BROWN AND CALDWELL

138554.004
Transite Pipe Scale

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #10-06061-OR

July 20, 2010

EBERLINE SERVICES/OAK RIDGE LABORATORY
OAK RIDGE, TN

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Eberline Services – Oak Ridge Laboratory

LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Eberline Services Work Order # 10 06061

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		6-15-10	KF	Sample Log-In
		7/12/10	KBS	Data Compilation
		7/13/10	NK	First Technical Data Review
		7/13/10	CD	Second Technical Data Review
		7/19/10	[illegible]	Data Entry/Electronic Deliverable
		7/19/10	[illegible]	Case Narrative
		07/20/10	EJT	Electronic Deliverable Proof
		7/20/10	[illegible]	Samples Analyzed within Holding Time Yes? [ ] No? [ ] YES
		7/20/10	[illegible]	QA/QC Review
		07/22/10	EJT	Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

Date package approved by: [signature] 7/20/10

Laboratory Manager Date

Copy No. _____

SECTION I

CHAIN OF CUSTODY

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. YERS 0399

10 06061

☒ 3264 Goni Road / Suite 153, Carson City, NV 89706, 775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225, Las Vegas, NV 89102, 702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500, Phoenix, AZ 85004, 602-567-4000 / FAX 602-567-4001

PROJECT NAME: Transite Pipe Scale

PROJECT NUMBER: 138554.004

LABORATORY NAME & ADDRESS: Eberline Services, 601 Scarboro Rd, Oak Ridge, TN 37830-3849

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
* 01 4	S-1	6/2/10	10:20	PB	1	1 gal Ziplock	NONE	S	Ra-226, Ra-228, U, Th (Gamma spec 901.1 / HASL 300)	NA		STD	Grab	NA	550g
* 02 5	S-2		10:43	PB										---	200g
* 03 6	S-3		11:00	PB										---	325g
* 04 7	S-4		11:16	PB										---	1100g
* 05 8	S-5		11:32	PB										---	250g
06 9	S-6		11:43	PB										---	375g
07 10	S-7		13:00	PB										---	150g
11 08	S-10a		13:39	PB										---	425g
12 09	S-10b		13:45	PB										---	450g
13 10	S-11		14:00	PB										---	625g

* SEE NOTE

RECEIVED JUN 14 2010 BY: KF

COLLECTED & RELEASED BY: Penny Barrett	DATE 6/7/10	TIME 09:00	COOLER I.D.:
RECEIVED BY: Reyanne Barringer	DATE 6/7/10	TIME 13:25	RELINQUISHED BY: R Barringer
Kevin Fox	6/14/10	1000	
RECORD RETURNED BY:	DATE / /	TIME :	
COURIER: FedEx Ground			SHIPPING NUMBER: 4131417100017 55

DATE 6/7/10 TIME 13:25

COMMENTS (see note on back):

(*) - Level IV data report requested

NOTE: Material may contain asbestos

DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. YERS 0400

☒ 3264 Goni Road / Suite 153, Carson City, NV 89706, 775-883-4118 / FAX 775-883-5108
☐ 4425 W. Spring Mountain Road / Suite 225, Las Vegas, NV 89102, 702-938-4080 / FAX 702-938-4082
☐ 201 East Washington Street / Suite 500, Phoenix, AZ 85004, 602-567-4000 / FAX 602-567-4001

10 06061

PROJECT NAME: Transit Pipe Scale
PROJECT NUMBER: 138554.004

LABORATORY NAME & ADDRESS: Eberline Services, 601 Scarboro Rd, Oak Ridge, TN 37830-3849

	LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN ---- END	PID READING (ppm)
14	01	S-12a	6/2/10	17:02	PB	1	1 gal ziplock	NONE	S	Ra-226, Ra-228, U, Th (Gamma spec 901.1/HASL300)	NA		STD	Grab	NA	750g
15	02	S-13	↓	16:50	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	225g
16	03	S-15	↓	16:30	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	400g
17	04	S-16	6/3/10	13:40	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	250g
18	05	S-17	↓	13:52	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	325g
19	06	S-18	↓	13:20	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	375g
20	07	S-19	↓	14:15	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	350g
	08	S-20	↓	14:23	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	350g
	09	S-21	↓	10:07	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	250g
	10	S-22	↓	11:00	↓	↓	↓	↓	↓	↓	↓		↓	↓	-----	1050g

RECEIVED
JUN 14 2010
BY: KF

COLLECTED & RELEASED BY: Penny Barrett	DATE 6/7/10	TIME 09:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Ryanne Barringer	DATE 6/7/10	TIME 0900	RELINQUISHED BY: R Barringer	DATE 6/7/10	TIME 1325	NOTE: Material may contain asbestos
Kevin Fox	6/14/10	1000				
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FedEx Ground			SHIPPING NUMBER: 4131417100017 55			

DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

EBERLINE SERVICES Oak Ridge Laboratory	Internal Chain of Custody	Work Order #	10-06061
		Lab Deadline	7/8/2010
		Analysis	Gamma - Level 4
		Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
21 day ingrowth. Report Ra226/228 & U, Th series.	04	65	H1.3
	05	38	H1.3
	06	70	H1.3
	07	81	H1.3
	08	56	H1.3
	09	12630	ESC1.2
	10	134	H1.3
	11	63	H1.3
	12	88	H1.3
CAUTION: SAMPLES MAY CONTAIN ASBESTOS!!!	13	71	H1.3
	14	78	H1.3
	15	320	H1.3
	16	45	H1.3
	17	625	H1.3
	18	91	H1.3
	19	30	H1.3
	20	675	H1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1000	Kenny Sellers	6-17-10
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1225	Kenny Sellers	6/8-10
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	ICB	6/18/10 1220
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	7/9/10 1500
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
Brown & Caldwell	7374	Environmental	06/14/2010	28	10-06061
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
7374	Transite Pipe Scale	H	07/08/2010	07/09/2010	07/12/2010

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	Ttl
01	LCS	06/16/10	SO	H1.3	X	1
02	BLANK	06/16/10	SO	H1.3	X	1
03	DUP	06/16/10	SO	H1.3	X	1
04	S-1	06/02/10 10:20	SO	H1.3	X	1
05	S-2	06/02/10 10:43	SO	H1.3	X	1
06	S-3	06/02/10 11:00	SO	H1.3	X	1
07	S-4	06/02/10 11:16	SO	H1.3	X	1
08	S-5	06/02/10 11:32	SO	H1.3	X	1
09	S-6	06/02/10 11:43	SO	ESC1.2	X	1
10	S-7	06/02/10 13:00	SO	H1.3	X	1
11	S-10a	06/02/10 13:39	SO	H1.3	X	1
12	S-10b	06/02/10 13:45	SO	H1.3	X	1
13	S-11	06/02/10 14:00	SO	H1.3	X	1
14	S-12a	06/02/10 17:02	SO	H1.3	X	1
15	S-13	06/02/10 16:50	SO	H1.3	X	1
16	S-15	06/02/10 16:30	SO	H1.3	X	1
17	S-16	06/03/10 13:40	SO	H1.3	X	1
18	S-17	06/03/10 13:52	SO	H1.3	X	1
19	S-18	06/03/10 13:20	SO	H1.3	X	1
20	S-19	06/03/10 14:15	SO	H1.3	X	1
		Totals Per Analysis (non QA samples)			17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice	Accounts Payable
	Brown & Caldwell
	3264 Goni Road Suite 153
	Carson City, NV 89706
Voice	775-883-4118
Fax	775-883-5108
Contact	Penny Bassett
Voice	775-883-4118
Fax	775-883-5108

Report Data	Penny Bassett
	Brown & Caldwell
	3264 Goni Road Suite 153
	Carson City, NV 89706
Voice	775-883-4118
Fax	775-883-5108

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 10 06061

SAMPLE MATRIX/MATRICES: (CIRCLE ONE OR BOTH)

AQUEOUS NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	Y	N	
If aqueous, properly preserved	Y	N	N/A

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	Y	N
Unbroken on outside of package?	Y	N
Present on samples?	Y	N
Unbroken on samples?	Y	N
Was chain of custody present upon sample receipt?	Y	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: 17 solids in ziplock bags

SIGNATURE: [signature] DATE: 6-15-10

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-30671

July 20, 2010

Penny Bassett
Brown and Caldwell
3264 Goni Road Suite 153
Carson City, NV 89706

CASE NARRATIVE
Work Order # 10-06061-OR

SAMPLE RECEIPT

This work order contains seventeen soil samples received 06/14/2010. These samples were analyzed by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
S-1	10-06061-04	S-11	10-06061-13
S-2	10-06061-05	S-12a	10-06061-14
S-3	10-06061-06	S-13	10-06061-15
S-4	10-06061-07	S-15	10-06061-16
S-5	10-06061-08	S-16	10-06061-17
S-6	10-06061-09	S-17	10-06061-18
S-7	10-06061-10	S-18	10-06061-19
S-10a	10-06061-11	S-19	10-06061-20
S-10b	10-06061-12		

ANALYTICAL METHODS

Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

Laboratory qualifiers are as follows:

J - Indicates a situation where the result minus the error is less than the detection limit but greater than zero.

U - Indicates a situation where the result minus the error is less than or equal to zero.

ANALYTICAL RESULTS

GAMMA SPECTROSCOPY

Samples for Gamma Spectroscopy analyses were prepared by transferring a known mass/aliquot of each prepared and homogenized sample to a standard geometry container. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors.

0017

ANALYTICAL RESULTS CONTINUED

GAMMA SPECTROSCOPY CONTINUED

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. Results for the method blank demonstrated acceptable activity for all gamma-emitting radionuclides as reported. Results for the Actinium-228 and Bismuth-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Lead-212 replicate demonstrated a high relative percent difference; however, normalized difference is within acceptable analytical technique limits. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 7/20/2010

SECTION IV

ANALYTICAL RESULTS SUMMARY

Penny Bassett
Brown and Caldwell
3264 Goni Road Suite 153
Carson City, NV 89706

SDG: 1006061
Date Received: 06/14/2010
Matrix: Soil

Final Report of Analysis
Date: 7/20/2010

Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
LCS	10-06061-01	LCS	06/18/2010	07/09/2010	LANL ER-130 Modified	Cobalt-60	147.00	10.42	0.72		pCi/g
LCS	10-06061-01	LCS	06/18/2010	07/09/2010	LANL ER-130 Modified	Cesium-137	90.64	10.90	0.62		pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.05	0.11	0.24	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	-0.05	0.07	0.12	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	2.57	3.42	7.95	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	-0.03	0.05	0.08	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	0.09	0.08	0.13	J	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	-0.05	0.07	0.12	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.05	0.11	0.24	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	-0.09	0.49	0.91	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	-0.04	0.10	0.18	U	pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.34	0.23	0.27		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.67	0.21	0.14		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.86	4.34	8.15	U	pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.01	0.21	0.12		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.54	0.19	0.13		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.67	0.21	0.14		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.34	0.23	0.27		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	4.80	1.64	1.55		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.19	0.19	0.20		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.53	0.24	0.25		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.54	0.22	0.14		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.29	4.29	7.99	U	pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.37	0.19	0.12		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.60	0.20	0.13		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.54	0.22	0.14		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.53	0.24	0.25		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	1.99	1.58	1.56	J	pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.25	0.19	0.17		pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.67	0.87	1.29	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.07	0.66	1.09	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	33.23	22.20	51.26	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.00	0.41	0.39		pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.01	0.42	0.60	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.07	0.66	1.09	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.67	0.87	1.29	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	1.66	2.66	4.97	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.29	0.56	1.06	U	pCi/g

EBERLINE SERVICES
EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

Penny Bassett
Brown and Caldwell
3264 Goni Road Suite 153
Carson City, NV 89706

SDG: 1006061
Date Received: 06/14/2010
Matrix: Soil

Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	9.68	1.26	1.10		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	3.05	0.76	0.68		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-21.91	19.02	30.60	U	pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	10.29	1.47	0.54		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	3.59	0.71	0.67		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	3.05	0.76	0.68		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	9.68	1.26	1.10		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	-1.40	3.87	6.57	U	pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	7.91	1.15	1.02		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.93	0.32	0.36		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	3.67	0.37	0.18		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.81	5.98	11.02	U	pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.43	0.20	0.17		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	3.17	0.32	0.21		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	3.67	0.37	0.18		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.93	0.32	0.36		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3.11	2.33	2.36	J	pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.57	0.23	0.27		pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.17	0.77	1.54	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.15	0.73	1.19	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-6.24	16.15	30.69	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.55	0.33	0.61	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.40	0.53	0.63		pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.15	0.73	1.19	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.17	0.77	1.54	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	0.99	2.86	5.29	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.24	0.63	1.18	U	pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1080.00	60.81	6.19		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	237.00	14.72	4.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	3374.00	345.00	173.00		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1336.00	147.70	12.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	264.60	21.84	4.31		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	237.00	14.72	4.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1080.00	60.81	6.19		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3074.00	386.20	58.31		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1057.00	122.80	6.34		pCi/g

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Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	101.40	9.47	5.79		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	14.56	4.99	5.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-0.32	88.71	164.90	U	pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	118.50	14.75	2.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	17.01	3.71	3.67		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	14.56	4.99	5.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	101.40	9.47	5.79		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	22.73	24.89	33.73	U	pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	87.20	9.56	5.61		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	3.09	0.50	0.47		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.02	0.24	0.28		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	6.27	7.62	15.57	U	pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	4.21	0.54	0.59		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.24	0.23	0.27		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.02	0.24	0.28		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	3.09	0.50	0.47		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	6.67	3.20	3.42		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	3.38	0.46	0.41		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	3.07	0.83	1.11		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.82	0.57	0.64		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	46.03	29.78	29.18	J	pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.80	0.52	0.38		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	2.42	0.61	0.51		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.82	0.57	0.64		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	3.07	0.83	1.11		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	33.81	6.20	5.46		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	2.27	0.64	0.79		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.33	0.39	0.75		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.10	0.25	0.22		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	10.22	8.48	17.34	J	pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.24	0.23	0.18		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.14	0.24	0.20		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.10	0.25	0.22		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.33	0.39	0.75		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	14.02	3.28	3.07		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.02	0.22	0.31		pCi/g

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SDG: 1006061
Date Received: 06/14/2010
Matrix: Soil

Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	2.45	0.65	0.90		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	5.91	0.81	0.45		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	5.29	15.24	29.27	U	pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.92	0.53	0.38		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	5.49	0.79	0.48		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	5.91	0.81	0.45		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	2.45	0.65	0.90		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	7.71	5.67	4.06	J	pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.87	0.47	0.69		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	135.40	8.18	2.59		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	75.23	5.21	1.65		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	179.20	53.56	67.47		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	44.02	5.38	1.41		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	75.17	6.28	1.77		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	75.23	5.21	1.65		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	135.40	8.18	2.59		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	163.40	26.62	23.19		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	121.00	8.84	2.43		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.81	0.85	1.00	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.36	0.51	0.81		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	14.87	16.07	34.33	U	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.44	0.47	0.34		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.23	0.45	0.42		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.36	0.51	0.81		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.81	0.85	1.00	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3.20	3.03	4.10	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	2.11	0.66	0.67		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	234.10	13.64	2.82		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	54.46	4.28	2.09		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	409.80	98.48	83.60		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	283.20	31.44	6.31		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	61.09	5.35	2.18		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	54.46	4.28	2.09		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	234.10	13.64	2.82		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	264.60	40.20	29.87		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	204.40	14.76	3.14		pCi/g

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SDG: 1006061
Date Received: 06/14/2010
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Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	2.02	1.87	3.45	J	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	90.85	6.58	1.41		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	21.48	52.50	95.34	U	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	5.07	1.15	1.57		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	96.23	10.85	1.67		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	90.85	6.58	1.41		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	2.02	1.87	3.45	J	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	5.68	9.06	14.75	U	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.37	1.48	2.53	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.37	0.36	0.63	J	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	0.73	0.20	0.23		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	3.61	7.43	15.41	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.62	0.19	0.18		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	0.83	0.22	0.25		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	0.73	0.20	0.23		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.37	0.36	0.63	J	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	0.03	1.54	2.82	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.58	0.30	0.47	J	pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	119.50	9.12	3.88		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	39.55	4.52	2.64		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	219.80	110.70	110.30	J	pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	141.10	16.09	1.93		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	44.86	5.50	2.47		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	39.55	4.52	2.64		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	119.50	9.12	3.88		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	161.10	24.69	26.49		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	116.50	10.27	3.77		pCi/g

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SECTION V

ANALYTICAL STANDARD

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CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1002

81341-416

Sand in 16 oz PP Taral Jar Filled to Top

Customer: Eberline Services / Eberline Analytical Corp. / Oak Ridge
P.O. No.: 5964, Item 6
Reference Date: 01-Jan-2010 12:00 PM EST **Grams of Master Source:** 0.017446

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 1, February, 1979, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty, % Type u_A	u_B	U	Calibration Method
Am-241	59.5	1.580E+05	———	2.020E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.606E+05	2.802E+03	0.4	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.471E+04	1.478E+03	0.5	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.209E+05	2.109E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.726E+05	4.756E+03	0.4	1.9	3.9	HPGe
Sn-113	391.7	1.151E+02	1.672E+05	2.917E+03	0.5	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.096E+05	1.912E+03	0.6	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.077E+05	7.113E+03	0.4	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.055E+05	3.585E+03	0.5	1.9	3.9	HPGe
Co-60	1332.5	1.925E+03	2.056E+05	3.587E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.308E+05	7.516E+03	0.5	1.9	3.9	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY HEALTH PHYSICS SOCIETY

Corporate Office

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia 30318

Comments:
260 mL / 260 g of pulverized soil.
This standard will expire one year after the reference date.

Source Prepared by: MITaskaeva
M. I. Taskaeva, Radiochemist

QA Approved: _____ **Date:** 1/29/10
J. D. McCorvey, QA Manager Alternate

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

Eberline Services
Analysis Control Chart

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
10-06061	Gamma	1	pCi	g	Brown & Caldwell

Laboratory Control Sample

Analyte	Normalized Difference	LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60	2.39	109.75%	7.09%	100.00%	2.84%	1.34E+02	3.81E+00	1.47E+02	1.04E+01	GAS-91	1.34E+02	3.81E+00	7.10E+02
CS-137	1.75	112.16%	12.03%	100.00%	2.80%	8.08E+01	2.26E+00	9.06E+01	1.09E+01	GAS-91	8.08E+01	2.26E+00	7.10E+02

Matrix Spike

Analyte	Normalized Difference	MS Actual % Rec	Expected MS Result	Expected MS Uncert	Actual MS Result	Actual MS CSU	Sample Result	Sample CSU	Sample Aliquot	Standard ID	Standard ACT (dpm)	Standard Error %	Standard Added (g)

Replicate Sample / QC Summary

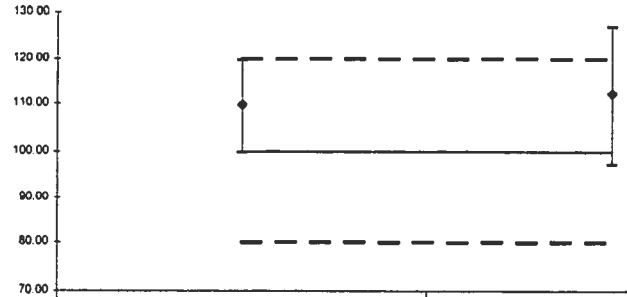
Analyte	Normalized Difference	RPD	Original Result	Original CSU	Replicate Result	Replicate CSU	LCS Relative Bias	LCS % R	LCS ND	MS % R	MS ND	Rep RPD	Rep ND
AC-228	1.14	13.32	1.53E+00	2.37E-01	1.34E+00	2.25E-01	1.10	OK	OK	<CS-137	AC-228>	OK	
BI-214	0.86	8.17	1.54E+00	2.17E-01	1.67E+00	2.06E-01	1.12	OK	OK	<CO-60	BI-214>	OK	OK
PB-212	2.45	29.68	1.37E+00	1.93E-01	1.01E+00	2.06E-01					PB-212>	OK	OK

0024

Version

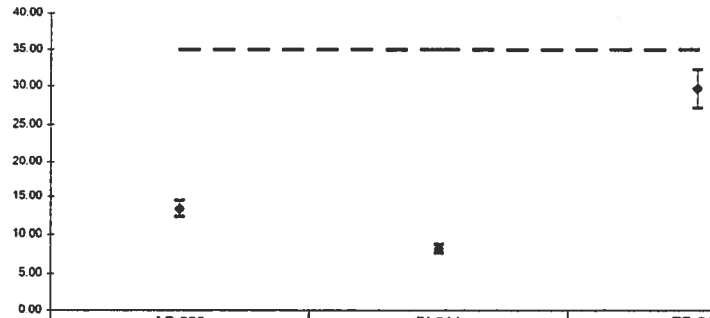
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
10-06061	Gamma	1	pCi	g	Brown & Caldwell

LCS % Recovery



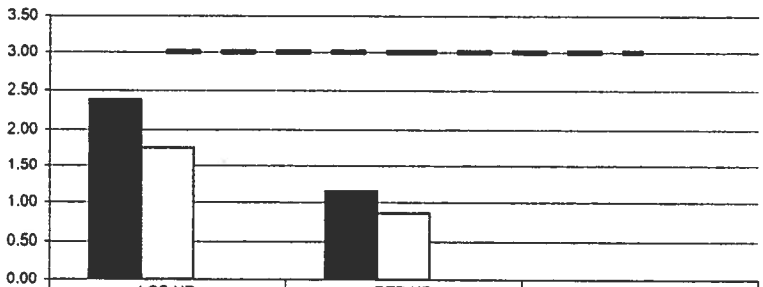
	CO-60	CS-137
Lower Error	99.82	97.34
Upper Error	119.68	126.99
%R	109.75	112.16
LCL	80	80
Mean	100	100
UCL	120	120

Replicate Sample RPD



	AC-228	BI-214	PB-212
Lower Error	14.40	8.71	32.16
Upper Error	12.25	7.63	27.19
RPD	13.32	8.17	29.68
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	2.39	1.14	0.00
CS-137	1.75	0.86	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

Version

0025

SECTION VII

LABORATORY TECHNICIAN'S NOTES

GE-1

Date	Sample #	Client	Load Time	CT. Time	Analysis	Tech
7/8/10	1006003-19	CH2MHill	1218	1hr	γ	KM
7/8/10	1006004-03	CH2MHill	1321	1hr	γ	KM
7/8/10	1006004-04	CH2M Hill	1425	1 HR	γ	AG
7/8/10	1006004-07	CH2M Hill	1526	1 HR	γ	AG
7/8/10	1006130-03	Solutient	1628	4 HR	γ	AG
7/9/10	Gas-1001	Lab	0305	15 min	γ	KM
7/9/10	Gas-10	Lab	0327	15 min	γ	KM
7/9/10	Gas-1002	Lab	0347	15 min	γ	KM
7/9/10	Daily Blegd	Lab	0406	15 min	γ	KM
7/9/10	1006061-03	Brown Cald.	0428	1hr	γ	KM
7/9/10	1006061-04	Brown Cald.	0530	1hr	γ	KM
7/9/10	1006061-07	Brown Caldwell	0633	1hr	γ	KM
7/9/10	1006061-09	Brown Caldwell	0734	1hr	γ	KM
7/9/10	1006061-11	Brown Caldwell	0837.	1hr	γ	KM
7/9/10	1006061-13	Brown Caldwell	0942	1hr	γ	KM
7/9/10	1006061-15	Brown Caldwell	1042	1hr	γ	KM
7/9/10	1006061-01	Brown Caldwell	1148	30 min	γ	AG
7/9/10	1006061-17	Brown Cald	1220	1 HR	γ	AG
7/9/10	1006061-19	Brown. Cald	1322	1 HR	γ	AG

GE-4

Date	Sample #	Client	Load Time	CT Time	Analysis	Tech
7/8/10	1006003-13	CH2MHill	0820	1hr	γ	KM
7/8/10	1006003-14	CH2MHill	0922	1hr	γ	KM
7/8/10	1006003-16	CH2MHill	1023	1hr	γ	KM
7/8/10	1006003-18	CH2MHill	1124	1hr	γ	KM
7/8/10	1006003-20	CH2MHill	1233	1hr	γ	KM
[redacted]/8/10	1006004-05	CH2M Hill	1338	1 HR	γ	AG
7/8/10	1006004-06	CH2M Hill	1440	1 HR	γ	AG
7/8/10	1006004-08	CH2M Hill	1543	1 HR	γ	AG
7/8/10	1006130-05	Solutient	1644	5 HR	γ	AG
7/9/10	Gaw10	Lab	0305	15 min	γ	KM
7/9/10	Gas1002	Lab	0327	15 min	γ	KM
7/9/10	Gas1001	Lab	0347	15 min	γ	KM
7/9/10	Daily Blgd	Lab	0406	15 min	γ	KM
7/9/10	1006061-05	Brown Caldwell	0428	1hr	γ	KM
7/9/10	1006061-06	Brown Caldwell	0530	1hr	γ	KM
7/9/10	1006061-08	Brown Caldwell	0633	1hr	γ	KM
7/9/10	1006061-10	Brown Caldwell	0734	1hr	γ	KM
7/9/10	1006061-12	Brown Caldwell	0837	1hr	γ	KM
7/9/10	1006061-14	Brown Caldwell	0942	1hr	γ	KM
7/9/10	1006061-16	Brown Caldwell	1043	1hr	γ	KM
7/9/10	1006061-02	Brown Cald	1149	1 HR	γ	AG
7/9/10	1006061-18	Brown Cald	1253	1 HR	γ	AG
7/9/10	1006061-20	Brown Cald	1357	1 HR	γ	AG

0028

SECTION VIII

ANALYTICAL DATA (GAMMA SPECTROSCOPY)

10-06061
Gamma
Run 1

Work Order	10-06061
Analysis Code	Gamma
Run	1
Date Received	6/14/2010
Lab Deadline	7/8/2010
Client	Brown & Caldwell
Project	7374
Report Level	4
Activity Units	pCi
Aliquot Units	g
Matrix	SO
Method	LANL ER-130 Modified
Instrument Type	Gamma Spectroscopy
Radiometric Tracer	
Radiometric Sol#	
Tracer Act (dpm/g)	
Carrier	
Carrier Conc (mg/ml)	

Internal Fraction	Sample Desc	Client ID	Login CPM	Sample Date	Sample Aliquot
01	LCS	LCS		06/16/10 00:00	1.0000E+00
02	MBL	BLANK		06/16/10 00:00	1.0000E+00
03	DUP	S-1	65	06/02/10 10:20	6.2831E+02
04	DO	S-1	65	06/02/10 10:20	6.2831E+02
05	TRG	S-2	38	06/02/10 10:43	1.7081E+02
06	TRG	S-3	70	06/02/10 11:00	2.7950E+02
07	TRG	S-4	81	06/02/10 11:16	4.9723E+02
08	TRG	S-5	56	06/02/10 11:32	1.5530E+02
09	TRG	S-6	12630	06/02/10 11:43	1.7365E+02
10	TRG	S-7	134	06/02/10 13:00	6.4900E+01
11	TRG	S-10a	63	06/02/10 13:39	2.5300E+02
12	TRG	S-10b	88	06/02/10 13:45	2.4691E+02
13	TRG	S-11	71	06/02/10 14:00	2.6232E+02
14	TRG	S-12a	78	06/02/10 17:02	3.7984E+02
15	TRG	S-13	320	06/02/10 16:50	1.5200E+02
16	TRG	S-15	45	06/02/10 16:30	2.6100E+02
17	TRG	S-16	625	06/03/10 13:40	1.3990E+02
18	TRG	S-17	91	06/03/10 13:52	2.1144E+02
19	TRG	S-18	30	06/03/10 13:20	2.0896E+02
20	TRG	S-19	675	06/03/10 14:15	1.8425E+02

0030

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

10-06061
Gamma
Run 1

Internal Fraction	Sample Desc	Tracer Aliquot (g)	Tracer Total ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	Grav Carrier Added (ml)	Grav Filter Tare (g)	Grav Filter Final (g)	Grav Filter Net (g)	Grav % Rec	Mean % Rec	SAF 1*	SAF 2*
01	LCS				0.00								
02	MBL				0.00								
03	DUP				0.00								
04	DO				0.00								
05	TRG				0.00								
06	TRG				0.00								
07	TRG				0.00								
08	TRG				0.00								
09	TRG				0.00								
10	TRG				0.00								
11	TRG				0.00								
12	TRG				0.00								
13	TRG				0.00								
14	TRG				0.00								
15	TRG				0.00								
16	TRG				0.00								
17	TRG				0.00								
18	TRG				0.00								
19	TRG				0.00								
20	TRG				0.00								

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

10-06061
Gamma
Run 1

Internal Fraction	Sample Desc	Rough Prep Date	Rough Prep By	Prep Date	Prep By	Sep t0 Date/Time	Sep t0 By	Sep t1 Date/Time	Sep t1 By
01	LCS								
02	MBL								
03	DUP								
04	DO	06/18/10 09:37	KSALLINGS						
05	TRG	06/18/10 09:37	KSALLINGS						
06	TRG	06/18/10 09:37	KSALLINGS						
07	TRG	06/18/10 09:37	KSALLINGS						
08	TRG	06/18/10 09:37	KSALLINGS						
09	TRG	06/18/10 09:37	KSALLINGS						
10	TRG	06/18/10 09:37	KSALLINGS						
11	TRG	06/18/10 09:37	KSALLINGS						
12	TRG	06/18/10 09:37	KSALLINGS						
13	TRG	06/18/10 09:37	KSALLINGS						
14	TRG	06/18/10 09:37	KSALLINGS						
15	TRG	06/18/10 09:37	KSALLINGS						
16	TRG	06/18/10 09:37	KSALLINGS						
17	TRG	06/18/10 09:37	KSALLINGS						
18	TRG	06/18/10 09:37	KSALLINGS						
19	TRG	06/18/10 09:37	KSALLINGS						
20	TRG	06/18/10 09:37	KSALLINGS						

* SAF1 is used for Gross Alpha and all other radionuclides. SAF2 is used for Gross Beta only. ** Actual mass exceeded the calibration curve range. Results should be qualified as appropriate.

Preliminary Data Report & Analytical Calculations

Work Order: 10-06061-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
01	CO-60	LCS	LCS	pCi/g	1.47E+02	1.04E+01	7.16E-01	1.34E+02	109.75	OK		06/16/10 00:00	1.00E+00	07/09/10 11:48	YES
01	CS-137	LCS	LCS	pCi/g	9.06E+01	1.09E+01	6.21E-01	8.08E+01	112.16	OK		06/16/10 00:00	1.00E+00	07/09/10 11:48	YES
02	AC-228	MBL	BLANK	pCi/g	5.20E-02	1.08E-01	2.40E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	BI-214	MBL	BLANK	pCi/g	-4.78E-02	7.25E-02	1.21E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	PA-234M	MBL	BLANK	pCi/g	2.57E+00	3.42E+00	7.95E+00					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	PB-212	MBL	BLANK	pCi/g	-3.12E-02	4.71E-02	7.79E-02					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	PB-214	MBL	BLANK	pCi/g	8.58E-02	8.37E-02	1.33E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	RA-226	MBL	BLANK	pCi/g	-4.78E-02	7.25E-02	1.21E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	RA-228	MBL	BLANK	pCi/g	5.20E-02	1.08E-01	2.40E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	TH-234	MBL	BLANK	pCi/g	-9.22E-02	4.93E-01	9.06E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
02	TL-208	MBL	BLANK	pCi/g	-4.25E-02	1.03E-01	1.77E-01					06/16/10 00:00	1.00E+00	07/09/10 11:49	NO
03	AC-228	DUP	S-1	pCi/g	1.34E+00	2.25E-01	2.75E-01				OK	06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	BI-214	DUP	S-1	pCi/g	1.67E+00	2.06E-01	1.41E-01				OK	06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	PA-234M	DUP	S-1	pCi/g	1.88E+00	4.34E+00	8.15E+00					06/02/10 10:20	6.28E+02	07/09/10 04:29	NO
03	PB-212	DUP	S-1	pCi/g	1.01E+00	2.06E-01	1.22E-01				OK	06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	PB-214	DUP	S-1	pCi/g	1.54E+00	1.89E-01	1.34E-01					06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	RA-226	DUP	S-1	pCi/g	1.67E+00	2.06E-01	1.41E-01					06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	RA-228	DUP	S-1	pCi/g	1.34E+00	2.25E-01	2.75E-01					06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	TH-234	DUP	S-1	pCi/g	4.80E+00	1.64E+00	1.55E+00					06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
03	TL-208	DUP	S-1	pCi/g	1.19E+00	1.88E-01	1.96E-01					06/02/10 10:20	6.28E+02	07/09/10 04:29	YES
04	AC-228	DO	S-1	pCi/g	1.53E+00	2.37E-01	2.52E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	BI-214	DO	S-1	pCi/g	1.54E+00	2.17E-01	1.39E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	PA-234M	DO	S-1	pCi/g	1.29E+00	4.29E+00	7.99E+00					06/02/10 10:20	6.28E+02	07/09/10 05:31	NO
04	PB-212	DO	S-1	pCi/g	1.37E+00	1.93E-01	1.24E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	PB-214	DO	S-1	pCi/g	1.60E+00	2.00E-01	1.31E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	RA-226	DO	S-1	pCi/g	1.54E+00	2.17E-01	1.39E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	RA-228	DO	S-1	pCi/g	1.53E+00	2.37E-01	2.52E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	TH-234	DO	S-1	pCi/g	1.99E+00	1.58E+00	1.56E+00					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
04	TL-208	DO	S-1	pCi/g	1.25E+00	1.91E-01	1.75E-01					06/02/10 10:20	6.28E+02	07/09/10 05:31	YES
05	AC-228	TRG	S-2	pCi/g	6.73E-01	8.71E-01	1.29E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	BI-214	TRG	S-2	pCi/g	1.07E+00	6.63E-01	1.09E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	PA-234M	TRG	S-2	pCi/g	3.32E+01	2.22E+01	5.13E+01					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	PB-212	TRG	S-2	pCi/g	9.99E-01	4.09E-01	3.85E-01					06/02/10 10:43	1.71E+02	07/09/10 04:29	YES
05	PB-214	TRG	S-2	pCi/g	1.01E+00	4.25E-01	6.04E-01					06/02/10 10:43	1.71E+02	07/09/10 04:29	YES
05	RA-226	TRG	S-2	pCi/g	1.07E+00	6.63E-01	1.09E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	RA-228	TRG	S-2	pCi/g	6.73E-01	8.71E-01	1.29E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	TH-234	TRG	S-2	pCi/g	1.66E+00	2.66E+00	4.97E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO
05	TL-208	TRG	S-2	pCi/g	2.91E-01	5.56E-01	1.06E+00					06/02/10 10:43	1.71E+02	07/09/10 04:29	NO

Work Order: 10-06061-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
06	AC-228	TRG	S-3	pCi/g	9.68E+00	1.26E+00	1.10E+00					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	Bi-214	TRG	S-3	pCi/g	3.05E+00	7.62E-01	6.80E-01					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	PA-234M	TRG	S-3	pCi/g	-2.19E+01	1.90E+01	3.06E+01					06/02/10 11:00	2.80E+02	07/09/10 05:31	NO
06	PB-212	TRG	S-3	pCi/g	1.03E+01	1.47E+00	5.37E-01					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	PB-214	TRG	S-3	pCi/g	3.59E+00	7.10E-01	6.71E-01					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	RA-226	TRG	S-3	pCi/g	3.05E+00	7.62E-01	6.80E-01					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	RA-228	TRG	S-3	pCi/g	9.68E+00	1.26E+00	1.10E+00					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
06	TH-234	TRG	S-3	pCi/g	-1.40E+00	3.87E+00	6.57E+00					06/02/10 11:00	2.80E+02	07/09/10 05:31	NO
06	TL-208	TRG	S-3	pCi/g	7.91E+00	1.15E+00	1.02E+00					06/02/10 11:00	2.80E+02	07/09/10 05:31	YES
07	AC-228	TRG	S-4	pCi/g	1.93E+00	3.22E-01	3.61E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	Bi-214	TRG	S-4	pCi/g	3.67E+00	3.66E-01	1.82E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	PA-234M	TRG	S-4	pCi/g	1.81E+00	5.98E+00	1.10E+01					06/02/10 11:16	4.97E+02	07/09/10 06:33	NO
07	PB-212	TRG	S-4	pCi/g	4.35E-01	1.95E-01	1.67E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	PB-214	TRG	S-4	pCi/g	3.17E+00	3.21E-01	2.09E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	RA-226	TRG	S-4	pCi/g	3.67E+00	3.66E-01	1.82E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	RA-228	TRG	S-4	pCi/g	1.93E+00	3.22E-01	3.61E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	TH-234	TRG	S-4	pCi/g	3.11E+00	2.33E+00	2.36E+00					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
07	TL-208	TRG	S-4	pCi/g	1.57E+00	2.29E-01	2.73E-01					06/02/10 11:16	4.97E+02	07/09/10 06:33	YES
08	AC-228	TRG	S-5	pCi/g	1.67E-01	7.69E-01	1.54E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	Bi-214	TRG	S-5	pCi/g	1.15E+00	7.25E-01	1.19E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	PA-234M	TRG	S-5	pCi/g	-6.24E+00	1.62E+01	3.07E+01					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	PB-212	TRG	S-5	pCi/g	5.49E-01	3.32E-01	6.06E-01					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	PB-214	TRG	S-5	pCi/g	1.40E+00	5.33E-01	6.27E-01					06/02/10 11:32	1.55E+02	07/09/10 08:33	YES
08	RA-226	TRG	S-5	pCi/g	1.15E+00	7.25E-01	1.19E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	RA-228	TRG	S-5	pCi/g	1.67E-01	7.69E-01	1.54E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	TH-234	TRG	S-5	pCi/g	9.88E-01	2.86E+00	5.29E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
08	TL-208	TRG	S-5	pCi/g	2.43E-01	6.25E-01	1.18E+00					06/02/10 11:32	1.55E+02	07/09/10 06:33	NO
09	AC-228	TRG	S-6	pCi/g	1.08E+03	6.08E+01	6.19E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	Bi-214	TRG	S-6	pCi/g	2.37E+02	1.47E+01	4.24E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	PA-234M	TRG	S-6	pCi/g	3.37E+03	3.45E+02	1.73E+02					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	PB-212	TRG	S-6	pCi/g	1.34E+03	1.48E+02	1.22E+01					06/02/10 11:43	1.74E+02	07/09/10 07:34	NO
09	PB-214	TRG	S-6	pCi/g	2.65E+02	2.18E+01	4.31E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	RA-226	TRG	S-6	pCi/g	2.37E+02	1.47E+01	4.24E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	RA-228	TRG	S-6	pCi/g	1.08E+03	6.08E+01	6.19E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	TH-234	TRG	S-6	pCi/g	3.07E+03	3.86E+02	5.83E+01					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
09	TL-208	TRG	S-6	pCi/g	1.06E+03	1.23E+02	6.34E+00					06/02/10 11:43	1.74E+02	07/09/10 07:34	YES
10	AC-228	TRG	S-7	pCi/g	1.01E+02	9.47E+00	5.79E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
10	Bi-214	TRG	S-7	pCi/g	1.46E+01	4.99E+00	5.72E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	NO

Work Order: 10-06061-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
10	PA-234M	TRG	S-7	pCi/g	-3.23E-01	8.87E+01	1.65E+02					06/02/10 13:00	6.49E+01	07/09/10 07:34	NO
10	PB-212	TRG	S-7	pCi/g	1.19E+02	1.48E+01	2.72E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
10	PB-214	TRG	S-7	pCi/g	1.70E+01	3.71E+00	3.67E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
10	RA-226	TRG	S-7	pCi/g	1.46E+01	4.99E+00	5.72E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	NO
10	RA-228	TRG	S-7	pCi/g	1.01E+02	9.47E+00	5.79E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
10	TH-234	TRG	S-7	pCi/g	2.27E+01	2.49E+01	3.37E+01					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
10	TL-208	TRG	S-7	pCi/g	8.72E+01	9.56E+00	5.61E+00					06/02/10 13:00	6.49E+01	07/09/10 07:34	YES
11	AC-228	TRG	S-10a	pCi/g	3.09E+00	5.01E-01	4.71E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	BI-214	TRG	S-10a	pCi/g	1.02E+00	2.39E-01	2.81E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	PA-234M	TRG	S-10a	pCi/g	6.27E+00	7.62E+00	1.56E+01					06/02/10 13:39	2.53E+02	07/09/10 08:37	NO
11	PB-212	TRG	S-10a	pCi/g	4.21E+00	5.39E-01	5.91E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	NO
11	PB-214	TRG	S-10a	pCi/g	1.24E+00	2.27E-01	2.69E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	RA-226	TRG	S-10a	pCi/g	1.02E+00	2.39E-01	2.81E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	RA-228	TRG	S-10a	pCi/g	3.09E+00	5.01E-01	4.71E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	TH-234	TRG	S-10a	pCi/g	6.67E+00	3.20E+00	3.42E+00					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
11	TL-208	TRG	S-10a	pCi/g	3.38E+00	4.61E-01	4.12E-01					06/02/10 13:39	2.53E+02	07/09/10 08:37	YES
12	AC-228	TRG	S-10b	pCi/g	3.07E+00	8.31E-01	1.11E+00					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	BI-214	TRG	S-10b	pCi/g	1.82E+00	5.67E-01	6.42E-01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	PA-234M	TRG	S-10b	pCi/g	4.60E+01	2.98E+01	2.92E+01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	PB-212	TRG	S-10b	pCi/g	2.80E+00	5.24E-01	3.84E-01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	PB-214	TRG	S-10b	pCi/g	2.42E+00	6.07E-01	5.06E-01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	RA-226	TRG	S-10b	pCi/g	1.82E+00	5.67E-01	6.42E-01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	RA-228	TRG	S-10b	pCi/g	3.07E+00	8.31E-01	1.11E+00					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	TH-234	TRG	S-10b	pCi/g	3.38E+01	6.20E+00	5.46E+00					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
12	TL-208	TRG	S-10b	pCi/g	2.27E+00	6.42E-01	7.88E-01					06/02/10 13:45	2.47E+02	07/09/10 08:37	YES
13	AC-228	TRG	S-11	pCi/g	1.33E+00	3.95E-01	7.55E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	NO
13	BI-214	TRG	S-11	pCi/g	1.10E+00	2.54E-01	2.24E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
13	PA-234M	TRG	S-11	pCi/g	1.02E+01	8.48E+00	1.73E+01					06/02/10 14:00	2.62E+02	07/09/10 09:41	NO
13	PB-212	TRG	S-11	pCi/g	1.24E+00	2.28E-01	1.79E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
13	PB-214	TRG	S-11	pCi/g	1.14E+00	2.38E-01	1.95E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
13	RA-226	TRG	S-11	pCi/g	1.10E+00	2.54E-01	2.24E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
13	RA-228	TRG	S-11	pCi/g	1.33E+00	3.95E-01	7.55E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	NO
13	TH-234	TRG	S-11	pCi/g	1.40E+01	3.28E+00	3.07E+00					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
13	TL-208	TRG	S-11	pCi/g	1.02E+00	2.19E-01	3.15E-01					06/02/10 14:00	2.62E+02	07/09/10 09:41	YES
14	AC-228	TRG	S-12a	pCi/g	2.45E+00	6.48E-01	9.00E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	BI-214	TRG	S-12a	pCi/g	5.91E+00	8.13E-01	4.48E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	PA-234M	TRG	S-12a	pCi/g	5.29E+00	1.52E+01	2.93E+01					06/02/10 17:02	3.80E+02	07/09/10 09:42	NO
14	PB-212	TRG	S-12a	pCi/g	2.92E+00	5.27E-01	3.84E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES

Work Order: 10-06061-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
14	PB-214	TRG	S-12a	pCi/g	5.49E+00	7.86E-01	4.82E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	RA-226	TRG	S-12a	pCi/g	5.91E+00	8.13E-01	4.48E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	RA-228	TRG	S-12a	pCi/g	2.45E+00	6.48E-01	9.00E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	TH-234	TRG	S-12a	pCi/g	7.71E+00	5.67E+00	4.06E+00					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
14	TL-208	TRG	S-12a	pCi/g	1.87E+00	4.66E-01	6.86E-01					06/02/10 17:02	3.80E+02	07/09/10 09:42	YES
15	AC-228	TRG	S-13	pCi/g	1.35E+02	8.18E+00	2.59E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	BI-214	TRG	S-13	pCi/g	7.52E+01	5.21E+00	1.65E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	PA-234M	TRG	S-13	pCi/g	1.79E+02	5.36E+01	6.75E+01					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	PB-212	TRG	S-13	pCi/g	4.40E+01	5.38E+00	1.41E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	PB-214	TRG	S-13	pCi/g	7.52E+01	6.28E+00	1.77E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	RA-226	TRG	S-13	pCi/g	7.52E+01	5.21E+00	1.65E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	RA-228	TRG	S-13	pCi/g	1.35E+02	8.18E+00	2.59E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	TH-234	TRG	S-13	pCi/g	1.63E+02	2.66E+01	2.32E+01					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
15	TL-208	TRG	S-13	pCi/g	1.21E+02	8.84E+00	2.43E+00					06/02/10 16:50	1.52E+02	07/09/10 10:42	YES
16	AC-228	TRG	S-15	pCi/g	1.81E+00	8.49E-01	9.97E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
16	BI-214	TRG	S-15	pCi/g	1.36E+00	5.15E-01	8.13E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	NO
16	PA-234M	TRG	S-15	pCi/g	1.49E+01	1.61E+01	3.43E+01					06/02/10 16:30	2.61E+02	07/09/10 10:43	NO
16	PB-212	TRG	S-15	pCi/g	2.44E+00	4.71E-01	3.37E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
16	PB-214	TRG	S-15	pCi/g	1.23E+00	4.45E-01	4.16E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
16	RA-226	TRG	S-15	pCi/g	1.36E+00	5.15E-01	8.13E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	NO
16	RA-228	TRG	S-15	pCi/g	1.81E+00	8.49E-01	9.97E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
16	TH-234	TRG	S-15	pCi/g	3.20E+00	3.03E+00	4.10E+00					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
16	TL-208	TRG	S-15	pCi/g	2.11E+00	6.56E-01	6.69E-01					06/02/10 16:30	2.61E+02	07/09/10 10:43	YES
17	AC-228	TRG	S-16	pCi/g	2.34E+02	1.36E+01	2.82E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	BI-214	TRG	S-16	pCi/g	5.45E+01	4.28E+00	2.09E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	PA-234M	TRG	S-16	pCi/g	4.10E+02	9.85E+01	8.36E+01					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	PB-212	TRG	S-16	pCi/g	2.83E+02	3.14E+01	6.31E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	NO
17	PB-214	TRG	S-16	pCi/g	6.11E+01	5.35E+00	2.18E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	RA-226	TRG	S-16	pCi/g	5.45E+01	4.28E+00	2.09E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	RA-228	TRG	S-16	pCi/g	2.34E+02	1.36E+01	2.82E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	TH-234	TRG	S-16	pCi/g	2.65E+02	4.02E+01	2.99E+01					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
17	TL-208	TRG	S-16	pCi/g	2.04E+02	1.48E+01	3.14E+00					06/03/10 13:40	1.40E+02	07/09/10 12:20	YES
18	AC-228	TRG	S-17	pCi/g	2.02E+00	1.87E+00	3.45E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
18	BI-214	TRG	S-17	pCi/g	9.09E+01	6.58E+00	1.41E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	YES
18	PA-234M	TRG	S-17	pCi/g	2.15E+01	5.25E+01	9.53E+01					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
18	PB-212	TRG	S-17	pCi/g	5.07E+00	1.15E+00	1.57E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
18	PB-214	TRG	S-17	pCi/g	9.62E+01	1.09E+01	1.67E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	YES
18	RA-226	TRG	S-17	pCi/g	9.09E+01	6.58E+00	1.41E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	YES

Preliminary Data Report & Analytical Calculations

Work Order: 10-06061-Gamma-1

Lab Fraction	Nuclide	Sample Desc	Client Identification	Activity Units	Results	Error Estimate	MDA	LSC Known	LCS %R	LCS Flag	RPD Flag	Sample Date	Sample Aliquot	Counting Date/Time	Identified
18	RA-228	TRG	S-17	pCi/g	2.02E+00	1.87E+00	3.45E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
18	TH-234	TRG	S-17	pCi/g	5.68E+00	9.06E+00	1.48E+01					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
18	TL-208	TRG	S-17	pCi/g	1.37E+00	1.48E+00	2.53E+00					06/03/10 13:52	2.11E+02	07/09/10 12:53	NO
19	AC-228	TRG	S-18	pCi/g	3.73E-01	3.59E-01	6.33E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	NO
19	BI-214	TRG	S-18	pCi/g	7.28E-01	2.03E-01	2.35E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	YES
19	PA-234M	TRG	S-18	pCi/g	3.61E+00	7.43E+00	1.54E+01					06/03/10 13:20	2.09E+02	07/09/10 13:22	NO
19	PB-212	TRG	S-18	pCi/g	6.19E-01	1.87E-01	1.81E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	YES
19	PB-214	TRG	S-18	pCi/g	8.27E-01	2.23E-01	2.53E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	YES
19	RA-226	TRG	S-18	pCi/g	7.28E-01	2.03E-01	2.35E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	YES
19	RA-228	TRG	S-18	pCi/g	3.73E-01	3.59E-01	6.33E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	NO
19	TH-234	TRG	S-18	pCi/g	3.36E-02	1.54E+00	2.82E+00					06/03/10 13:20	2.09E+02	07/09/10 13:22	NO
19	TL-208	TRG	S-18	pCi/g	5.78E-01	3.04E-01	4.70E-01					06/03/10 13:20	2.09E+02	07/09/10 13:22	NO
20	AC-228	TRG	S-19	pCi/g	1.20E+02	9.12E+00	3.88E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	BI-214	TRG	S-19	pCi/g	3.96E+01	4.52E+00	2.64E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	PA-234M	TRG	S-19	pCi/g	2.20E+02	1.11E+02	1.10E+02					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	PB-212	TRG	S-19	pCi/g	1.41E+02	1.61E+01	1.93E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	PB-214	TRG	S-19	pCi/g	4.49E+01	5.50E+00	2.47E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	RA-226	TRG	S-19	pCi/g	3.96E+01	4.52E+00	2.64E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	RA-228	TRG	S-19	pCi/g	1.20E+02	9.12E+00	3.88E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	TH-234	TRG	S-19	pCi/g	1.61E+02	2.47E+01	2.65E+01					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES
20	TL-208	TRG	S-19	pCi/g	1.17E+02	1.03E+01	3.77E+00					06/03/10 14:15	1.84E+02	07/09/10 13:57	YES

Count Room Report
Client: Brown Caldwell

10-06061-Gamma-1 (pCi/g) in SO
Tracer ID:

1 Hr.

Internal Fraction	Sample Desc	Client ID	Sample Date	Sample Aliquot	Tracer Aliquot (g)	Tracer ACT (dpm)	Radiometric Tracer (pCi)	Radiometric % Rec	SAF 1*	SAF 2*
01	LCS	LCS	06/16/10 00:00	1.0000				0.00		
02	MBL	BLANK	06/16/10 00:00	1.0000				0.00		
03	DUP	S-1	06/02/10 10:20	628.3100				0.00		
04	DO	S-1	06/02/10 10:20	628.3100				0.00		
05	TRG	S-2	06/02/10 10:43	170.8100				0.00		
06	TRG	S-3	06/02/10 11:00	279.5000				0.00		
07	TRG	S-4	06/02/10 11:16	497.2300				0.00		
08	TRG	S-5	06/02/10 11:32	155.3000				0.00		
09	TRG	S-6	06/02/10 11:43	173.6500				0.00		
10	TRG	S-7	06/02/10 13:00	64.9000				0.00		
11	TRG	S-10a	06/02/10 13:39	253.0000				0.00		
12	TRG	S-10b	06/02/10 13:45	246.9100				0.00		
13	TRG	S-11	06/02/10 14:00	262.3200				0.00		
14	TRG	S-12a	06/02/10 17:02	379.8400				0.00		
15	TRG	S-13	06/02/10 16:50	152.0000				0.00		
16	TRG	S-15	06/02/10 16:30	261.0000				0.00		
17	TRG	S-16	06/03/10 13:40	139.9000				0.00		
18	TRG	S-17	06/03/10 13:52	211.4400				0.00		
19	TRG	S-18	06/03/10 13:20	208.9600				0.00		
20	TRG	S-19	06/03/10 14:15	184.2500				0.00		

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404·352·8677
Fax 404·352·2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-91

78855-416

Sand in 16 oz PP Taral Jar Filled to Top

Customer: Eberline Services / Oak Ridge
P.O. No.: 5258, Item 6
Calibration Date: 01-Jan-2009 12:00 EST **Grams of Master Source:** 0.016876

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Analytics maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 1, February, 1979, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST."

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty, % Type u_A	u_B	U	Calibration Method
Am-241	59.5	157860	———	1.959E+03	0.3	1.5	3.1	4π LS
Cd-109	88.0	462.60	1.694E+05	2.859E+03	0.6	1.7	3.6	HPGe
Co-57	122.1	271.79	8.597E+04	1.451E+03	0.7	1.3	3.0	HPGe
Ce-139	165.9	137.6	1.217E+05	2.054E+03	0.5	1.1	2.4	HPGe
Hg-203	279.2	46.61	2.692E+05	4.543E+03	0.5	1.1	2.4	HPGe
Sn-113	391.7	115.1	1.709E+05	2.884E+03	0.6	1.1	2.5	HPGe
Cs-137	661.7	10983	1.071E+05	1.807E+03	0.7	1.2	2.8	HPGe
Y-88	898.0	106.6	4.084E+05	6.892E+03	0.7	1.1	2.6	HPGe
Co-60	1173.2	1925.4	2.084E+05	3.517E+03	0.8	1.1	2.7	HPGe
Co-60	1332.5	1925.4	2.086E+05	3.520E+03	1.0	1.1	3.0	HPGe
Y-88	1836.1	106.6	4.320E+05	7.290E+03	0.8	1.1	2.7	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

Comments:
440 mL/710 g of sand.
This standard will expire one year after the calibration date.

Source Prepared by: _____
W. Mao, Radiochemist

QA Approved: _____ QA ALT Date: 1/28/09
D. M. Montgomery, QA Manager

End of Certificate

Eberline Analytical
Oak Ridge Laboratory

Aliquot Worksheet

Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	Technician
10-06061	1	Gamma	grams	7/8/2010	KSALLINGS

Lab Fraction	Brown & Caldwell Client ID	Sample Type	Muffle Data Ratio Post/Pre	Dilution Data No of Dils	Dil Factor	Ratio	Aliquot Data Aliquot	Net Equiv	MS Aliquot Data Aliquot	Net Equiv	H-3 Solids Only Water Added (ml)	H3 Dist Aliq
01	LCS	LCS				1.00E+00	1.0000E+00	1.0000E+00				
02	BLANK	MBL				1.00E+00	1.0000E+00	1.0000E+00				
03	S-1	DUP				1.00E+00	6.2831E+02	6.2831E+02				
04	S-1	DO				1.00E+00	6.2831E+02	6.2831E+02				
05	S-2	TRG				1.00E+00	1.7081E+02	1.7081E+02				
06	S-3	TRG				1.00E+00	2.7950E+02	2.7950E+02				
07	S-4	TRG				1.00E+00	4.9723E+02	4.9723E+02				
08	S-5	TRG				1.00E+00	1.5530E+02	1.5530E+02				
09	S-6	TRG				1.00E+00	1.7365E+02	1.7365E+02				
10	S-7	TRG				1.00E+00	6.4900E+01	6.4900E+01				
11	S-10a	TRG				1.00E+00	2.5300E+02	2.5300E+02				
12	S-10b	TRG				1.00E+00	2.4691E+02	2.4691E+02				
13	S-11	TRG				1.00E+00	2.6232E+02	2.6232E+02				
14	S-12a	TRG				1.00E+00	3.7984E+02	3.7984E+02				
15	S-13	TRG				1.00E+00	1.5200E+02	1.5200E+02				
16	S-15	TRG				1.00E+00	2.6100E+02	2.6100E+02				
17	S-16	TRG				1.00E+00	1.3990E+02	1.3990E+02				
18	S-17	TRG				1.00E+00	2.1144E+02	2.1144E+02				
19	S-18	TRG				1.00E+00	2.0896E+02	2.0896E+02				
20	S-19	TRG				1.00E+00	1.8425E+02	1.8425E+02				

Comments	

0040

Technician: Kenny Sceis Date: 6/18/10

Eberline Services - Oak Ridge
Prep Logbook
Version 2.0 8/1999

Rough Sample Preparation Log Book

Work Order	Lab Deadline	Date Received in Prep	Date Sealed	Date Returned	Technician
10-06061	7/8/2010	6/17/2010	6/18/2010	6/19/2010	KSALLINGS

Eberline	Brown & Caldwell	Tare (g)	Gross (g)		Net (g)		Percent		Gamma		Special
Fraction	Client ID	Pan Wt	Wet Wt.	Dry Wt.	Wet Wt.	Dry Wt.	Liquid	Solid	Dry Wt.	LEPS Wt.	Info
04	S-1	14.5900	880.4800	876.8200	865.8900	862.2300	0.42%	99.58%			
05	S-2	14.8000	204.4800	187.1100	189.6800	172.3100	9.16%	90.84%			
06	S-3	14.8100	309.0300	294.9500	294.2200	280.1400	4.79%	95.21%			
07	S-4	14.7800	1015.2000	1006.3400	1000.4200	991.5600	0.89%	99.11%			
08	S-5	14.7900	190.7300	170.8800	175.9400	156.0900	11.28%	88.72%			
09	S-6	14.8300	296.4400	274.3200	281.6100	259.4900	7.85%	92.15%			
10	S-7	14.8000	82.3600	79.8200	67.5600	65.0200	3.76%	96.24%			
11	S-10a	14.8500	356.1100	309.6100	341.2600	294.7600	13.63%	86.37%			
12	S-10b	14.8800	389.7200	313.1400	374.8400	298.2600	20.43%	79.57%			
13	S-11	14.8000	517.2800	452.0100	502.4800	437.2100	12.99%	87.01%			
14	S-12a	14.8300	672.4500	655.1100	657.6200	640.2800	2.64%	97.36%			
15	S-13	14.8400	175.7900	167.8100	160.9500	152.9700	4.96%	95.04%			
16	S-15	14.8200	310.2700	276.6000	295.4500	261.7800	11.40%	88.60%			
17	S-16	14.8300	160.9600	155.2600	146.1300	140.4300	3.90%	96.10%			
18	S-17	14.8400	250.5500	226.4900	235.7100	211.6500	10.21%	89.79%			
19	S-18	14.7900	291.9500	264.2900	277.1600	249.5000	9.98%	90.02%			
20	S-19	14.7700	249.9900	232.4000	235.2200	217.6300	7.48%	92.52%			

Comments	
Special Codes	H: Hot, O: Organic Hazard, P: PCB Hazard, R: Rush, T: Other (see comments)

0041

Technician: Kenny Salley

Date: Analysis: Rough Prep Logbook

Analysis: Gamma Page No. 7064

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

AG
7/9/10

VAX/VMS Peak Search Report Generated 9-JUL-2010 12:18:56.44

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606101_GE1_GAS1002_151321.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : GAS-91
Deposition Date :
Sample Date : 1-JAN-2009 00:00:00. Acquisition date : 9-JUL-2010 11:48:07.
Sample ID : 1006061-01 Sample Quantity : 7.10000E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 00:30:00.00 Elapsed real time: 0 00:30:34.61 1.9%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	22.21	200402	50288	1.40	21.62	19	7	0.6		
0	32.22	2718	6809	2.34	31.63	30	5	9.9		
10	52.75	21050	37150	5.18	52.18	45	19	4.6	5.23E+02	
10	59.24	95719	13912	1.77	58.67	45	19	0.8		AM-241
0	67.60	1064	18676	2.98	67.04	65	6	41.0		
0	87.84	70019	29574	1.92	87.30	81	12	1.2		NP-237
										SN-126
										CD-109
0	122.13	19718	14517	1.81	121.61	116	11	2.8		CO-57
0	136.35	2589	8724	1.62	135.84	132	8	13.1		CO-57
0	165.79	5766	10873	1.97	165.30	160	11	7.5		CE-139
0	199.99*	288	6852	1.76	199.52	196	7	96.0		
0	255.80	211	5486	1.48	255.38	253	7	117.3		SN-113
0	391.73	2703	5103	2.07	391.40	387	9	10.3		SN-113
0	511.53*	186	2863	2.71	511.29	509	7	97.2		
0	532.01	117	1731	2.60	531.79	530	5	109.0		
0	584.07*	188	2266	2.86	583.89	581	7	85.3		TL-208
0	661.72*	32540	3843	2.04	661.59	656	12	1.3		CS-137
0	814.33	220	1971	4.51	814.31	811	7	68.4		
0	820.94	181	2026	2.06	820.93	819	7	83.6		
3	877.55	103	963	1.78	877.58	876	7	81.1	6.20E+00	
3	879.86	95	1631	1.78	879.90	876	7	130.3		
0	898.15	2624	3901	2.13	898.19	893	11	10.0		Y-88
0	1118.55	109	1378	1.86	1118.76	1117	6	110.2		
0	1173.19	33367	2101	2.30	1173.44	1167	13	1.2		CO-60
0	1293.93	73	393	5.40	1294.27	1290	10	104.6		
1	1322.90	61	386	2.83	1323.26	1317	26	107.8	5.92E+01	
1	1332.41	30588	307	2.60	1332.77	1317	26	1.2		CO-60
0	1621.78	42	137	1.51	1622.36	1618	9	106.2		
2	1835.83	1669	84	2.87	1836.56	1830	24	5.3	3.73E+00	Y-88
2	1849.76	24	45	3.24	1850.50	1830	24	101.6		
0	1953.92	45	93	11.15	1954.75	1944	16	102.3		
2	2102.24	19	56	3.34	2103.17	2098	25	153.2	1.45E+00	
2	2109.48	18	50	3.34	2110.42	2098	25	160.3		
1	2209.72	20	19	2.50	2210.73	2202	12	87.2	1.40E+00	
0	2274.97	26	55	3.41	2276.02	2272	8	109.7		

AG
7/12/10

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	2325.58	31	31	6.93	2326.68	2321	11	79.0		
0	2349.73	18	30	2.78	2350.84	2345	11	130.1		
0	2394.91	13	13	8.55	2396.06	2389	11	124.6		
0	2420.15	13	4	1.20	2421.32	2417	9	78.7		
3	2459.34	12	0	3.77	2460.53	2457	18	61.9	8.30E-01	
3	2467.69	13	0	3.77	2468.89	2457	18	77.9		
0	2505.11	474	0	2.86	2506.34	2499	14	9.2		
0	2614.15*	30	0	2.98	2615.45	2610	11	38.3		TL-208
0	2733.38	33	2	1.98	2734.77	2730	9	38.5		

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

Total number of lines in spectrum	43	
Number of unidentified lines	24	
Number of lines tentatively identified by NID	19	44.19%

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-57	270.90D	4.13	1.812E+01	7.488E+01	0.682E+01	9.11	
Y-88	106.60D	36.8	8.143E+00	2.997E+02	0.265E+02	8.84	
CD-109	464.00D	2.29	1.396E+03	3.196E+03	0.783E+03	24.50	
SN-113	115.10D	28.2	6.219E+00	1.754E+02	0.255E+02	14.51	
SN-126	1.00E+05Y	1.00	1.404E+02	1.404E+02	0.331E+02	23.56	
CS-137	30.17Y	1.04	8.753E+01	9.064E+01	1.090E+01	12.02	
CE-139	137.66D	16.3	6.123E+00	9.989E+01	1.203E+01	12.04	
NP-237	2.14E+06Y	1.00	4.125E+02	4.125E+02	0.951E+02	23.05	
			---	---			
	Total Activity :		2.075E+03	4.490E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.22	1.204E+02	1.470E+02	0.104E+02	7.08	
			---	---			
	Total Activity :		1.204E+02	1.470E+02			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	4.926E-01	4.926E-01	1.857E-01	37.70	
AM-241	432.20Y	1.00	2.158E+02	2.163E+02	0.235E+02	10.85	
			---	---			
	Total Activity :		2.163E+02	2.168E+02			

Grand Total Activity : 2.412E+03 4.853E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CO-57	122.06	85.51*	2.755E+00	1.770E+01	7.315E+01	10.80	OK
	136.48	10.60	2.671E+00	1.934E+01	7.991E+01	16.89	OK
Final Mean for 2 Valid Peaks = 7.488E+01+/- 6.819E+00 (9.11%)							
Y-88	898.02	93.40	7.197E-01	8.255E+00	3.038E+02	13.52	OK
	1836.01	99.38*	4.405E-01	8.064E+00	2.968E+02	11.67	OK
Final Mean for 2 Valid Peaks = 2.997E+02+/- 2.648E+01 (8.84%)							
CD-109	88.03	3.72*	2.851E+00	1.396E+03	3.196E+03	24.50	OK
Final Mean for 1 Valid Peaks = 3.196E+03+/- 7.832E+02 (24.50%)							
SN-113	255.12	1.93	1.947E+00	1.187E+01	3.346E+02	118.32	OK
	391.69	64.90*	1.421E+00	6.196E+00	1.747E+02	14.60	OK
Final Mean for 2 Valid Peaks = 1.754E+02+/- 2.545E+01 (14.51%)							
SN-126	87.57	37.00*	2.851E+00	1.404E+02	1.404E+02	23.56	OK
Final Mean for 1 Valid Peaks = 1.404E+02+/- 3.307E+01 (23.56%)							
CS-137	661.65	85.12*	9.236E-01	8.753E+01	9.064E+01	12.02	OK
Final Mean for 1 Valid Peaks = 9.064E+01+/- 1.090E+01 (12.02%)							
CE-139	165.85	80.35*	2.479E+00	6.123E+00	9.989E+01	12.04	OK
Final Mean for 1 Valid Peaks = 9.989E+01+/- 1.203E+01 (12.04%)							
NP-237	86.50	12.60*	2.849E+00	4.125E+02	4.125E+02	23.05	OK
Final Mean for 1 Valid Peaks = 4.125E+02+/- 9.506E+01 (23.05%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CO-60	1173.22	100.00*	5.867E-01	1.203E+02	1.468E+02	9.22	OK
	1332.49	100.00	5.363E-01	1.206E+02	1.473E+02	11.08	OK
Final Mean for 2 Valid Peaks = 1.470E+02+/- 1.042E+01 (7.08%)							

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TL-208	583.14	30.22*	1.026E+00	1.284E+00	1.284E+00	86.07	OK
	860.37	4.48	7.447E-01	----- Line Not Found		-----	Absent
	2614.66	35.85	3.778E-01	4.696E-01	4.696E-01	40.12	OK
	Final Mean for 2 Valid Peaks = 4.926E-01+/- 1.857E-01 (37.70%)						
AM-241	59.54	35.90*	2.613E+00	2.158E+02	2.163E+02	10.85	OK
	Final Mean for 1 Valid Peaks = 2.163E+02+/- 2.347E+01 (10.85%)						

Flag: "*" = Keyline

Sample ID : 1006061-01
Acquisition date : 9-JUL-2010 11:48:07

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
CO-57	7.488E+01	6.819E+00	1.566E+00	1.510E-01	47.811
CO-60	1.470E+02	1.042E+01	7.160E-01	5.880E-02	205.313
Y-88	2.997E+02	2.648E+01	8.418E+00	8.092E-01	35.600
CD-109	3.196E+03	7.832E+02	2.573E+01	6.211E+00	124.240
SN-113	1.754E+02	2.545E+01	1.871E+01	1.789E+00	9.376
SN-126	1.404E+02	3.307E+01	1.130E+00	2.619E-01	124.255
CS-137	9.064E+01	1.090E+01	6.205E-01	6.986E-02	146.072
CE-139	9.989E+01	1.203E+01	6.447E+00	5.504E-01	15.494
TL-208	4.926E-01	1.857E-01	1.589E+00	1.726E-01	0.310
NP-237	4.125E+02	9.506E+01	3.319E+00	7.521E-01	124.289
AM-241	2.163E+02	2.347E+01	1.275E+00	1.283E-01	169.604

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
NA-22	1.706E-01		3.030E-01	5.281E-01	5.017E-02	0.323
AL-26	-2.038E-02		1.209E-01	2.084E-01	2.019E-02	-0.098
K-40	7.707E-01		1.525E+00	2.696E+00	2.824E-01	0.286
TI-44	8.856E-01	+	3.851E-01	5.476E-01	7.626E-02	1.617
SC-46	3.900E+01		4.940E+01	6.996E+01	5.785E+00	0.557
MN-54	-6.796E-02		1.253E+00	2.132E+00	1.970E-01	-0.032
CO-56	1.418E+01		4.996E+01	8.530E+01	7.709E+00	0.166
CO-58	6.051E+01		9.066E+01	1.378E+02	1.335E+01	0.439
ZN-65	-4.891E-01		4.739E+00	7.030E+00	5.817E-01	-0.070
SE-75	8.539E+00		1.046E+01	1.522E+01	1.682E+00	0.561
RB-83	4.176E+01		6.145E+01	8.799E+01	1.472E+01	0.475
KR-85	1.044E+02		8.438E+01	1.218E+02	1.263E+01	0.857
NB-93M	3.010E+02		1.507E+02	2.285E+01	1.137E+01	13.173
NB-94	4.431E-01		4.505E-01	6.843E-01	5.891E-02	0.648
RU-106	-8.833E-01		8.278E+00	1.418E+01	2.138E+00	-0.062
AG-108M	-1.797E-01		3.413E-01	5.785E-01	6.204E-02	-0.311
AG-110M	1.190E+02		1.448E+01	6.011E+00	6.751E-01	19.797
TE123M	-4.485E+00		6.495E+00	9.370E+00	8.165E-01	-0.479
SB-125	-1.243E-01		1.427E+00	2.290E+00	2.238E-01	-0.054
I-129	-8.196E+01		1.522E+01	1.263E+00	2.273E-01	-64.873
BA-133	1.685E-01		4.602E-01	7.448E-01	1.060E-01	0.226
CS-134	2.958E-01		4.825E-01	8.328E-01	9.168E-02	0.355
CS-135	4.409E-01		1.410E+00	2.292E+00	2.543E-01	0.192
LA-138	-1.404E-02		2.410E-01	4.144E-01	4.259E-02	-0.034
CE-144	3.630E+01		8.665E+00	1.204E+01	1.123E+00	3.015
PM-144	2.871E-01		8.718E-01	1.498E+00	2.050E-01	0.192
PM-145	-8.532E+00		5.909E+00	2.447E+00	1.617E+00	-3.486
PM-146	-2.417E-01		9.282E-01	1.484E+00	1.459E-01	-0.163
EU-152	9.631E-01		1.164E+00	2.073E+00	2.544E-01	0.465
GD-153	-3.104E+00		4.520E+00	7.330E+00	1.262E+00	-0.423
EU-154	3.525E-01		6.411E-01	1.117E+00	1.061E-01	0.316
EU-155	2.079E+02	+	4.792E+01	3.988E+00	9.038E-01	52.137

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
HO-166M	-4.077E-01		5.620E-01	9.485E-01	1.028E-01	-0.430
HF-172	6.756E+01		7.891E+00	6.312E+00	6.008E-01	10.704
LU-173	-2.953E+00		2.340E+00	3.698E+00	4.142E-01	-0.798
HF-175	-2.369E+01		7.075E+01	1.137E+02	1.183E+01	-0.208
LU-176	1.080E-01		2.475E-01	4.020E-01	4.445E-02	0.269
TA-182	6.848E+01		3.684E+01	5.639E+01	4.657E+00	1.214
IR-192	3.993E+01		1.182E+02	1.901E+02	1.894E+01	0.210
BI-207	1.926E-01		3.079E-01	4.961E-01	5.349E-02	0.388
BI-210M	-2.354E-01		5.653E-01	8.110E-01	8.860E-02	-0.290
PB-210	2.108E+02		2.747E+01	1.622E+01	1.874E+00	12.997
PB-211	2.699E+00		9.465E+00	1.528E+01	1.421E+00	0.177
BI-212	1.624E+00		2.596E+00	4.469E+00	4.773E-01	0.363
PB-212	1.324E-01		5.203E-01	8.469E-01	8.726E-02	0.156
BI-214	2.233E-01		6.120E-01	1.055E+00	1.162E-01	0.212
PB-214	2.054E-01		6.690E-01	1.084E+00	1.107E-01	0.190
RN-219	-4.171E+00		4.458E+00	6.702E+00	6.212E-01	-0.622
RA-223	-5.930E-01		6.108E+00	9.864E+00	1.064E+00	-0.060
RA-224	6.329E+00		5.875E+00	9.571E+00	9.922E-01	0.661
RA-226	3.898E+00		9.485E+00	1.025E+01	1.877E+01	0.380
TH-227	-3.074E-02		2.012E+00	3.266E+00	3.343E-01	-0.009
AC-228	4.409E-01		1.636E+00	2.695E+00	2.190E-01	0.164
TH-230	2.224E+02	+	9.663E+01	1.372E+02	1.898E+01	1.621
PA-231	2.388E+00		1.001E+01	1.624E+01	1.805E+00	0.147
TH-231	8.884E+02		2.005E+02	1.677E+01	3.720E+00	52.982
PA-234	4.914E-01		1.306E+00	1.514E+00	1.421E-01	0.324
PA-234M	-1.213E+01		4.616E+01	7.791E+01	6.425E+00	-0.156
TH-234	1.438E+02		2.130E+01	1.510E+01	1.784E+00	9.520
U-235	9.845E-01		2.017E+00	2.952E+00	5.236E-01	0.333
AM-243	-8.137E-01		5.294E-01	7.416E-01	1.265E-01	-1.097
CM-243	7.903E-01		1.689E+00	2.747E+00	3.117E-01	0.288

Sample ID : 1006061-01 Acquisition date : 9-JUL-2010 11:48:07

Total number of lines in spectrum	43	
Number of unidentified lines	24	
Number of lines tentatively identified by NID	19	44.19%

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-57	270.90D	4.13	1.812E+01	7.488E+01	0.682E+01	9.11	
Y-88	106.60D	36.8	8.143E+00	2.997E+02	0.265E+02	8.84	
CD-109	464.00D	2.29	1.396E+03	3.196E+03	0.783E+03	24.50	
SN-113	115.10D	28.2	6.219E+00	1.754E+02	0.255E+02	14.51	
SN-126	1.00E+05Y	1.00	1.404E+02	1.404E+02	0.331E+02	23.56	
CS-137	30.17Y	1.04	8.753E+01	9.064E+01	1.090E+01	12.02	
CE-139	137.66D	16.3	6.123E+00	9.989E+01	1.203E+01	12.04	
NP-237	2.14E+06Y	1.00	4.125E+02	4.125E+02	0.951E+02	23.05	
			---	---			
	Total Activity :		2.075E+03	4.490E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.22	1.204E+02	1.470E+02	0.104E+02	7.08	
			---	---			
	Total Activity :		1.204E+02	1.470E+02			

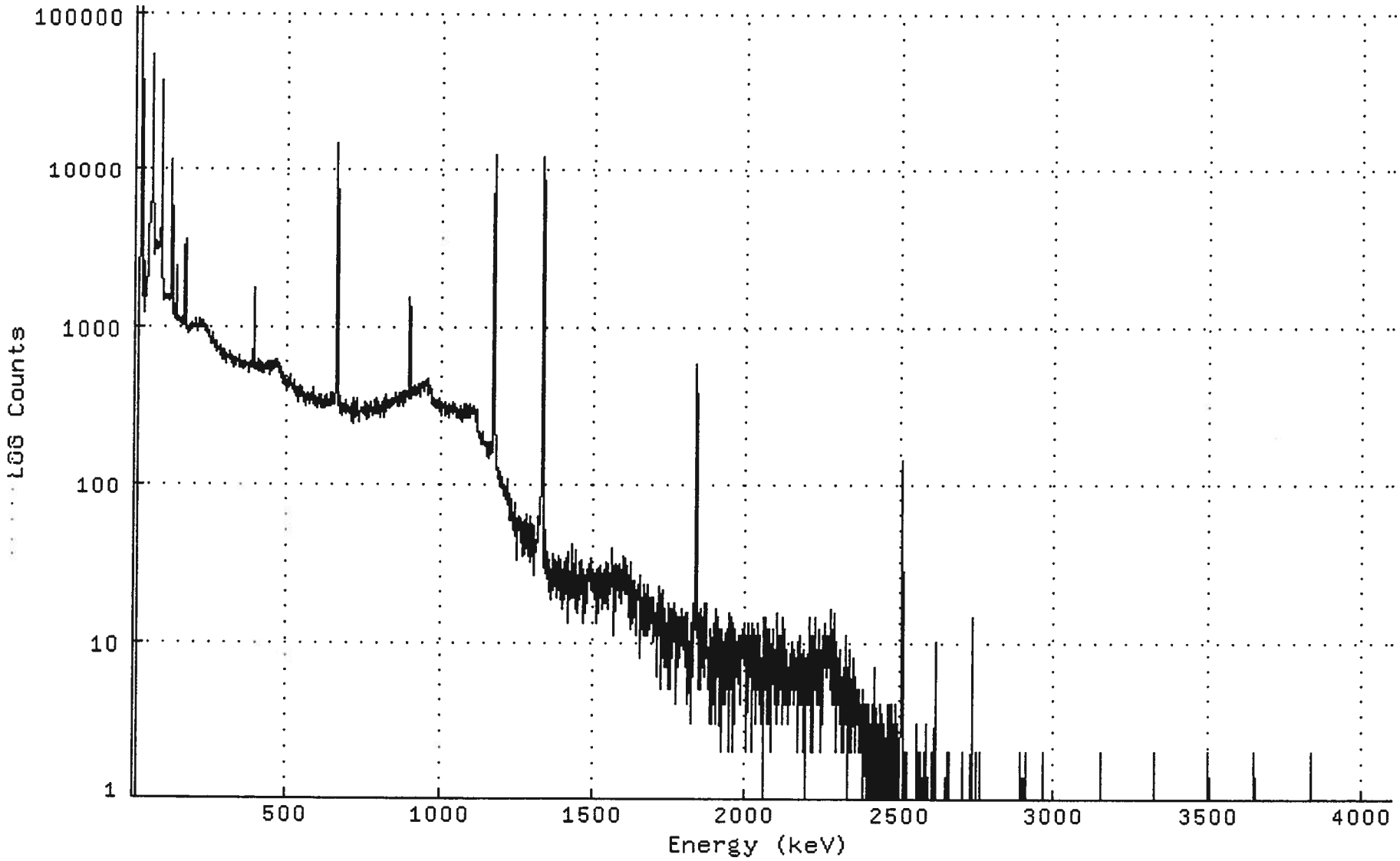
Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	4.926E-01	4.926E-01	1.857E-01	37.70	
AM-241	432.20Y	1.00	2.158E+02	2.163E+02	0.235E+02	10.85	
			---	---			
	Total Activity :		2.163E+02	2.168E+02			

Grand Total Activity :	2.412E+03	4.853E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606101_GE1_GAS1002_151321.CNF;1
Title :
Sample Title: GAS-91
Start Time: 9-JUL-2010 11:48: Sample Time: 1-JAN-2009 00:00: Energy Offset: 6.08450E-01
Real Time : 0 00:30:34.61 Sample ID : 1006061-01 Energy Slope : 9.99268E-01
Live Time : 0 00:30:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



0050

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606101_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	5	36	2332
17:	3091	3349	6946	30875	107327	39193	17032	35913
25:	13404	3611	1845	1576	1373	1504	2485	2503
33:	1844	1191	1441	1648	1656	1471	1511	1601
41:	1820	2164	2202	2456	2720	3168	3869	4928
49:	5820	5409	5337	5493	5534	5818	6320	6965
57:	9120	32332	53576	10046	3307	3211	2936	2853
65:	3088	3320	3438	3440	3202	3252	3178	3083
73:	3158	3094	3047	3290	3369	3348	3194	3317
81:	3358	3389	3563	4013	4344	8233	35260	26612
89:	4737	2248	2077	1759	1539	1405	1437	1429
97:	1503	1458	1504	1419	1441	1501	1476	1497
105:	1432	1460	1478	1487	1521	1405	1456	1520
113:	1530	1428	1443	1449	1492	1594	1683	2255
121:	7731	11261	2850	1364	1303	1253	1155	1135
129:	1147	1112	1079	1127	1193	1239	1457	2421
137:	1705	1110	1061	1100	1112	1041	1050	1041
145:	1118	1070	1051	1033	1065	1032	1053	1070
153:	1064	1105	1093	1069	1007	1052	1025	996
161:	1053	1116	1313	1358	3088	3505	1280	946
169:	1020	964	975	959	960	901	891	956
177:	879	928	932	952	962	917	965	984
185:	1028	1006	949	996	1027	1006	984	962
193:	1011	969	994	958	1010	1027	1088	1025
201:	1034	1000	962	945	945	1005	922	971
209:	1000	978	986	1012	1080	1032	1054	1047
217:	1052	1023	1061	1049	968	1057	1018	1019
225:	1043	968	983	986	974	988	914	976
233:	908	943	896	915	930	963	974	894
241:	895	915	855	898	834	860	823	818
249:	770	849	848	789	767	832	899	803
257:	815	785	796	780	736	759	746	743
265:	725	805	794	715	692	712	742	713
273:	712	714	706	728	722	742	712	712
281:	725	645	697	711	672	664	612	668
289:	703	614	709	715	683	687	657	639
297:	675	584	660	645	641	612	647	638
305:	656	644	650	627	633	699	625	629
313:	634	617	624	645	604	613	606	591
321:	644	593	621	630	606	555	590	632
329:	605	595	622	565	592	624	613	624
337:	604	625	610	582	657	557	572	557
345:	595	578	595	584	551	609	586	607
353:	578	599	590	533	565	608	607	562
361:	554	569	579	548	585	568	560	560
369:	576	565	551	565	579	538	549	500
377:	605	594	551	578	556	575	545	562
385:	557	590	556	575	673	779	1669	1692
393:	735	588	539	585	556	531	544	578
401:	532	555	562	564	526	585	610	560
409:	564	556	570	522	562	596	577	587
417:	553	535	556	514	571	524	555	575
425:	501	571	580	533	578	542	564	536

433:	588	557	544	555	566	564	596	586
441:	496	552	551	606	549	525	570	557
449:	594	561	586	572	558	562	552	602
457:	534	549	614	569	570	566	589	619
465:	607	574	569	545	590	582	592	591
473:	535	575	509	515	558	495	524	485
481:	481	467	509	423	439	454	470	495
489:	463	429	466	432	441	422	428	434
497:	419	448	418	396	410	449	419	412
505:	414	462	409	423	423	463	491	487
513:	420	421	388	410	432	398	408	402
521:	450	391	388	373	382	382	391	359
529:	374	349	401	395	382	321	352	401
537:	368	373	415	352	382	351	365	360
545:	354	366	348	402	370	386	366	356
553:	344	339	334	366	326	331	359	338
561:	327	338	307	356	328	367	367	354
569:	351	356	317	339	357	324	328	375
577:	348	355	337	345	329	344	410	360
585:	373	329	313	315	308	350	327	330
593:	348	355	318	324	296	329	328	337
601:	345	321	344	341	357	314	350	348
609:	358	333	338	301	331	328	328	297
617:	302	294	304	299	325	346	340	321
625:	356	358	323	356	320	309	310	325
633:	321	316	331	308	308	327	322	333
641:	367	338	343	309	344	333	349	316
649:	370	330	321	335	322	346	313	327
657:	401	552	922	2480	11403	14546	3672	756
665:	587	435	304	337	306	286	281	350
673:	295	274	293	307	311	318	264	310
681:	285	318	318	294	298	281	289	311
689:	293	273	298	313	333	279	290	298
697:	290	302	293	296	279	275	293	294
705:	290	273	279	311	293	289	293	247
713:	278	295	237	287	274	339	306	307
721:	259	289	269	270	275	281	340	297
729:	270	264	285	277	247	266	282	268
737:	269	283	281	291	295	299	291	274
745:	298	281	287	272	284	315	293	290
753:	288	319	262	269	291	279	253	315
761:	282	262	277	299	261	268	265	309
769:	292	279	281	325	287	299	291	276
777:	265	288	297	287	283	316	301	291
785:	273	306	331	281	303	301	271	281
793:	344	288	300	282	303	276	319	259
801:	284	302	281	291	277	322	294	297
809:	295	295	283	321	323	342	311	314
817:	297	255	291	329	359	314	313	304
825:	297	306	299	334	329	303	307	309
833:	328	298	305	314	343	302	316	310
841:	305	323	327	335	319	343	329	314
849:	336	341	332	371	326	319	327	325
857:	306	326	351	335	319	308	347	319
865:	318	367	359	359	361	367	350	322
873:	349	360	330	302	374	339	362	386
881:	336	327	341	352	341	378	374	377
889:	380	348	368	370	355	342	424	435
897:	806	1475	1105	491	370	378	344	352
905:	391	396	382	361	381	399	388	416

913:	374	399	387	362	382	388	404	362
921:	393	399	392	405	421	393	374	432
929:	402	353	419	401	433	418	402	392
937:	404	423	446	425	444	434	441	427
945:	419	432	445	386	459	457	419	438
953:	419	427	410	396	434	464	408	366
961:	372	419	375	371	396	386	372	388
969:	342	342	325	318	365	319	316	325
977:	318	309	314	318	332	332	327	300
985:	305	332	318	313	320	298	293	314
993:	278	344	319	311	277	322	292	266
1001:	321	300	321	315	293	302	297	312
1009:	306	317	306	280	321	300	321	262
1017:	301	294	272	295	305	278	281	292
1025:	312	266	260	306	307	286	285	297
1033:	278	308	301	276	281	279	298	270
1041:	325	302	313	307	291	283	284	288
1049:	274	260	278	285	271	298	266	268
1057:	286	261	273	288	248	266	269	302
1065:	279	286	288	264	265	244	249	278
1073:	281	286	285	276	283	260	316	286
1081:	284	280	297	258	310	289	278	262
1089:	257	279	293	310	275	285	263	288
1097:	260	275	300	297	287	271	269	303
1105:	298	279	283	286	271	296	255	244
1113:	274	288	290	259	255	289	260	244
1121:	229	210	214	196	203	201	199	199
1129:	177	200	198	195	193	207	196	190
1137:	202	209	184	178	182	180	183	182
1145:	172	173	173	165	169	163	153	162
1153:	182	183	147	159	161	167	171	173
1161:	171	165	178	155	180	185	158	175
1169:	261	563	1250	3910	11868	12174	3598	661
1177:	441	244	165	139	158	124	128	130
1185:	123	113	124	127	126	108	122	113
1193:	96	112	95	107	118	104	97	101
1201:	102	98	101	84	98	97	88	84
1209:	95	92	94	87	88	78	89	107
1217:	100	87	72	88	96	73	84	64
1225:	85	77	80	58	68	58	80	62
1233:	61	59	55	65	65	63	56	53
1241:	46	75	66	54	48	49	51	33
1249:	51	59	60	59	49	56	52	50
1257:	56	61	52	60	55	58	42	54
1265:	57	51	43	57	35	37	47	49
1273:	40	47	36	46	55	63	55	44
1281:	46	47	45	39	55	37	47	49
1289:	42	35	38	62	51	58	32	59
1297:	51	45	35	45	44	49	48	53
1305:	44	37	44	26	50	37	44	37
1313:	43	37	38	51	46	42	43	62
1321:	43	70	71	64	54	63	61	107
1329:	310	892	2245	8224	12024	5781	1099	286
1337:	181	92	44	30	28	27	32	50
1345:	27	42	33	25	35	35	34	33
1353:	33	31	30	29	30	22	18	29
1361:	27	27	25	26	32	36	25	28
1369:	36	21	23	22	22	23	27	33
1377:	32	19	28	26	32	21	28	26
1385:	21	35	27	34	22	25	33	27

1393:	20	20	18	19	25	28	26	16
1401:	29	19	25	18	28	32	24	32
1409:	21	23	34	20	28	23	29	13
1417:	37	23	33	29	20	26	18	25
1425:	28	21	23	25	23	19	25	41
1433:	20	22	22	20	31	29	19	24
1441:	18	16	28	38	17	20	22	23
1449:	15	26	19	18	18	25	23	32
1457:	28	18	27	20	29	33	30	29
1465:	16	29	13	25	17	17	17	16
1473:	21	25	15	26	27	17	25	22
1481:	23	23	29	27	31	25	24	28
1489:	26	22	34	24	27	26	21	21
1497:	23	24	29	25	27	27	23	18
1505:	27	20	26	23	26	24	13	18
1513:	29	13	26	23	19	15	19	29
1521:	30	23	19	23	22	27	21	21
1529:	27	20	16	20	21	20	17	29
1537:	18	23	31	19	32	20	21	24
1545:	17	25	23	16	31	24	23	25
1553:	20	21	26	25	24	30	22	32
1561:	26	39	28	24	23	23	26	24
1569:	30	11	21	31	18	27	29	21
1577:	25	29	21	29	30	25	31	21
1585:	21	23	23	19	29	26	17	23
1593:	26	21	21	25	29	23	35	31
1601:	31	34	26	24	25	20	21	26
1609:	20	21	21	30	26	19	14	26
1617:	18	17	22	18	18	25	32	12
1625:	21	14	13	22	13	23	24	18
1633:	24	17	21	19	16	14	14	18
1641:	13	19	11	21	21	18	21	18
1649:	22	23	23	14	26	16	15	21
1657:	8	19	19	17	18	19	12	14
1665:	15	15	11	23	13	20	14	19
1673:	11	15	18	11	14	14	11	18
1681:	23	16	15	19	14	12	18	16
1689:	17	14	15	13	15	19	11	19
1697:	10	13	15	13	11	15	14	15
1705:	13	12	16	6	12	12	15	16
1713:	19	11	22	11	12	14	12	15
1721:	15	20	11	5	17	20	16	11
1729:	11	21	8	13	11	16	13	11
1737:	7	10	9	12	7	13	11	9
1745:	7	13	7	5	11	17	9	5
1753:	9	15	9	16	14	11	8	16
1761:	14	13	14	17	12	13	10	11
1769:	14	15	12	6	6	4	8	7
1777:	13	12	13	8	14	9	9	10
1785:	14	10	8	11	11	16	11	11
1793:	12	9	14	11	9	9	13	15
1801:	10	9	13	15	8	12	4	15
1809:	9	13	11	4	9	6	10	9
1817:	9	7	3	10	12	13	8	11
1825:	7	13	17	6	13	9	8	17
1833:	29	84	193	500	588	242	72	25
1841:	18	14	12	9	9	7	15	5
1849:	7	13	16	14	5	10	12	13
1857:	7	14	8	12	10	11	11	11
1865:	10	17	9	6	10	8	12	8

1873:	12	17	5	6	9	9	8	7
1881:	9	12	12	8	10	3	5	4
1889:	3	7	7	9	9	13	10	12
1897:	10	10	5	3	16	8	8	8
1905:	7	10	8	14	12	13	6	9
1913:	12	6	5	8	9	4	2	12
1921:	7	5	5	12	7	10	4	9
1929:	9	8	6	6	5	4	10	11
1937:	12	9	6	12	11	5	8	9
1945:	2	15	8	9	7	8	5	9
1953:	14	11	10	13	8	8	2	5
1961:	7	3	12	8	8	9	7	7
1969:	10	9	7	8	6	9	11	11
1977:	8	10	6	7	4	7	11	9
1985:	6	10	8	8	11	12	10	10
1993:	13	8	9	11	9	10	5	10
2001:	5	11	7	7	2	6	9	5
2009:	13	8	8	9	9	8	6	11
2017:	10	11	2	5	13	13	9	9
2025:	12	7	11	9	5	9	11	7
2033:	10	3	5	9	9	6	13	10
2041:	9	5	8	5	6	4	11	4
2049:	7	3	8	6	6	5	7	10
2057:	8	14	1	6	6	7	11	5
2065:	6	8	14	3	8	12	11	7
2073:	4	8	9	3	4	7	12	7
2081:	8	2	6	6	8	12	8	8
2089:	6	9	7	4	9	9	7	7
2097:	6	6	3	10	5	11	11	15
2105:	8	4	8	8	7	9	11	9
2113:	7	5	5	6	14	9	5	10
2121:	10	3	5	12	6	4	7	5
2129:	8	8	8	4	9	6	8	5
2137:	5	6	7	7	3	7	4	8
2145:	4	4	8	9	10	5	6	9
2153:	6	8	9	4	7	5	7	8
2161:	8	8	7	7	5	5	10	6
2169:	2	9	2	3	5	11	8	6
2177:	5	7	4	4	6	6	6	4
2185:	8	9	5	4	2	8	5	6
2193:	6	1	7	8	7	7	6	8
2201:	4	4	6	12	10	14	4	8
2209:	5	11	11	5	2	4	8	6
2217:	11	8	8	11	2	8	7	7
2225:	5	8	14	7	8	9	4	9
2233:	5	7	9	12	8	8	5	4
2241:	9	9	4	6	2	6	6	4
2249:	10	9	11	3	10	9	9	13
2257:	7	11	10	6	11	8	8	9
2265:	7	7	8	7	8	9	11	7
2273:	7	16	14	16	11	6	4	7
2281:	6	6	12	8	4	8	15	6
2289:	9	11	9	10	10	10	7	2
2297:	4	7	4	4	8	4	7	8
2305:	4	3	9	4	4	3	3	2
2313:	4	6	2	7	5	2	4	4
2321:	5	4	6	11	6	4	3	10
2329:	5	7	1	2	6	4	2	4
2337:	6	4	2	9	4	2	2	2
2345:	3	2	4	5	3	6	8	8

2353:	4	3	2	4	3	3	6	4
2361:	5	3	4	3	3	3	3	5
2369:	4	2	3	4	4	2	2	2
2377:	2	4	4	5	0	1	3	1
2385:	2	2	3	2	2	4	2	1
2393:	1	2	2	4	4	4	0	1
2401:	0	1	3	3	1	1	3	1
2409:	0	2	3	4	1	1	0	1
2417:	1	2	1	1	7	2	2	1
2425:	0	0	1	3	1	1	2	2
2433:	2	3	2	1	3	4	4	3
2441:	2	2	3	1	2	2	2	1
2449:	1	1	0	3	2	1	1	0
2457:	0	2	1	3	4	2	1	1
2465:	1	2	3	4	4	3	1	2
2473:	4	0	0	3	0	1	1	0
2481:	3	0	1	4	1	0	0	0
2489:	0	1	3	2	2	2	2	0
2497:	2	0	0	2	2	1	6	33
2505:	74	143	124	64	12	10	3	0
2513:	0	1	0	2	0	1	1	0
2521:	2	2	0	1	1	0	1	0
2529:	0	1	0	0	0	1	0	1
2537:	1	0	1	0	0	1	1	1
2545:	0	1	1	0	0	0	0	0
2553:	1	0	0	3	1	2	2	0
2561:	0	1	0	0	1	0	0	0
2569:	1	2	1	0	0	0	0	0
2577:	0	0	0	0	0	2	0	0
2585:	0	3	0	1	2	0	0	0
2593:	0	1	0	0	0	1	0	1
2601:	0	1	1	1	2	0	0	0
2609:	0	0	1	2	2	4	6	6
2617:	10	1	1	0	0	0	0	0
2625:	0	0	1	0	1	0	0	0
2633:	0	0	0	1	1	0	0	0
2641:	0	1	1	0	0	0	0	1
2649:	0	0	0	2	1	0	0	1
2657:	0	0	1	1	2	0	0	0
2665:	0	1	0	0	0	0	0	0
2673:	0	0	0	1	0	0	0	0
2681:	1	0	0	0	0	0	0	1
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	1	0	0	0	0
2705:	0	2	0	0	0	0	0	1
2713:	0	0	0	1	0	1	0	0
2721:	0	0	0	0	0	1	0	0
2729:	0	0	0	1	4	9	14	3
2737:	4	0	1	0	0	0	0	0
2745:	0	0	0	1	2	1	0	1
2753:	1	0	1	0	0	2	0	0
2761:	1	0	0	0	0	0	0	0
2769:	0	0	0	0	0	1	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	1	0	0	0	0	0	0	0
2809:	0	0	0	0	1	0	0	0
2817:	0	0	0	0	0	0	1	0
2825:	0	0	0	0	0	0	0	0

2833:	0	0	1	0	0	0	1	0
2841:	0	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	1	0	1
2865:	0	0	1	0	0	1	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	2	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	2	1	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	1	0	0	0	0	0	0
2929:	0	0	0	0	1	0	0	1
2937:	0	0	0	0	0	0	0	0
2945:	0	1	0	0	0	0	1	0
2953:	0	0	0	0	0	0	0	1
2961:	0	0	0	2	0	0	0	0
2969:	0	1	1	0	0	0	0	0
2977:	0	1	0	0	0	0	1	0
2985:	1	1	0	0	0	0	0	0
2993:	0	1	0	0	0	0	0	0
3001:	1	0	0	0	0	0	1	0
3009:	0	0	1	0	0	0	0	1
3017:	0	0	0	0	0	0	0	1
3025:	0	0	0	1	0	0	0	1
3033:	0	0	0	0	0	0	0	0
3041:	0	0	1	0	1	0	1	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	1	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	1	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	1	0	0	1	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	1	0	0	0	0	0	2	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	1	0	0	1	1	0	0
3177:	1	0	0	1	1	0	0	0
3185:	0	0	0	0	0	0	0	1
3193:	0	1	0	0	0	0	0	0
3201:	1	0	0	1	0	0	0	0
3209:	0	0	0	0	0	0	0	1
3217:	0	0	0	0	0	0	1	1
3225:	0	0	0	0	0	0	1	1
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	0	1	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	1	0	0	0	0	0
3289:	1	0	1	0	0	0	0	0
3297:	0	0	0	1	0	0	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	0	0	1	0	0
3321:	0	0	0	1	2	0	0	0
3329:	0	0	0	0	0	0	0	1
3337:	1	0	0	0	0	0	0	0
3345:	0	0	0	0	1	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	1	0	0	0	0
3369:	0	0	1	0	0	0	0	0
3377:	0	0	1	0	0	0	0	0
3385:	1	0	0	0	1	0	0	0
3393:	0	0	0	0	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	1
3449:	0	0	0	0	0	0	0	0
3457:	0	1	0	0	0	0	0	0
3465:	1	0	0	0	0	0	0	0
3473:	0	1	0	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	0	0	0	0	1	0	0
3497:	0	0	0	0	0	2	0	0
3505:	0	0	0	0	1	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	1	0	1	0	0
3529:	0	0	0	1	0	0	0	0
3537:	1	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	1	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	1	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	1	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	0	0	0	0	0
3625:	1	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	1	0
3649:	0	0	2	0	0	0	0	1
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	1	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	1	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	1	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	1	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	1	0	0	0	0
3785:	0	0	0	0	1	0	0	0

3793:	0	0	0	0	0	0	0	0
3801:	0	0	1	1	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	2	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	1	0	0	0	0	0	0
3897:	0	0	1	0	0	0	0	0
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	1	0	0	0	0
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	1	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	1	0	0	0	0
3977:	0	0	0	0	0	1	0	0
3985:	0	0	0	0	0	1	0	0
3993:	0	0	1	0	0	0	0	0
4001:	0	0	1	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	1	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	1	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	1
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

Sample ID : 1006061-02 Acquisition date : 9-JUL-2010 11:49:22

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VAX/VMS Peak Search Report Generated 9-JUL-2010 12:49:43.23

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606102_GE4_GAS1002_151322.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : BLANK
Deposition Date :
Sample Date : 9-JUL-2010 00:00:00. Acquisition date : 9-JUL-2010 11:49:22.
Sample ID : 1006061-02 Sample Quantity : 7.83400E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:00.88 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	188.99	50	129	4.14	188.93	182	16	105.7		
0	353.39*	22	26	1.88	353.26	349	8	96.3		
3	508.80	11	4	2.76	508.61	507	9	57.5	2.56E+00	
6	1035.61	7	0	3.66	1035.19	1034	8	58.9	1.74E+00	
6	1039.37	11	0	3.35	1038.96	1034	8	62.6		
0	1598.53	5	2	1.89	1597.88	1594	7	116.9		
0	1606.45	10	0	4.88	1605.80	1602	8	63.2		

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Sample ID : 1006061-02 Acquisition date : 9-JUL-2010 11:49:22

Total number of lines in spectrum	7	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	1	14.29%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-02
Acquisition date : 9-JUL-2010 11:49:22

Flag: "*" = Keyline

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-1.565E-02		2.118E-01	3.877E-01	5.439E-02	-0.040
NA-22	-1.822E-02		3.880E-02	7.103E-02	6.717E-03	-0.256
NA-24	-4.909E-02		6.917E-02	1.178E-01	1.139E-02	-0.417
AL-26	-7.303E-03		3.371E-02	6.881E-02	6.248E-03	-0.106
K-40	2.239E-01		3.335E-01	8.040E-01	7.956E-02	0.279
AR-41	-2.931E+00		3.682E+00	6.083E+00	5.791E-01	-0.482
TI-44	-2.258E-02		1.837E-02	2.956E-02	2.328E-03	-0.764
SC-46	-5.795E-03		2.896E-02	5.704E-02	5.556E-03	-0.102
V-48	-1.188E-02		2.736E-02	5.181E-02	4.980E-03	-0.229
CR-51	6.328E-02		2.408E-01	4.396E-01	6.746E-02	0.144
MN-54	8.909E-03		2.948E-02	5.992E-02	6.325E-03	0.149
CO-56	1.833E-02		3.015E-02	6.473E-02	6.728E-03	0.283
CO-57	-1.031E-02		1.606E-02	2.693E-02	2.777E-03	-0.383
CO-58	1.249E-03		3.632E-02	6.734E-02	7.322E-03	0.019
FE-59	-1.881E-02		5.475E-02	1.054E-01	1.056E-02	-0.179
CO-60	1.049E-02		3.643E-02	7.842E-02	7.111E-03	0.134
ZN-65	2.671E-02		7.035E-02	1.532E-01	1.429E-02	0.174
GA-67	-1.012E-02		5.376E-02	9.829E-02	1.107E-01	-0.103
SE-75	-2.216E-02		3.161E-02	5.174E-02	7.410E-03	-0.428
RB-82	-7.352E-02		2.636E-01	4.605E-01	5.165E-02	-0.160
RB-83	-1.583E-02		7.418E-02	1.139E-01	2.174E-02	-0.139
KR-85	1.593E+01		9.319E+00	1.782E+01	2.487E+00	0.894
SR-85	7.002E-02		4.096E-02	7.833E-02	1.093E-02	0.894
Y-88	1.401E-02		4.185E-02	9.418E-02	8.471E-03	0.149
NB-93M	3.529E+00		2.058E+00	2.535E+00	1.179E+00	1.392
NB-94	-1.306E-02		2.987E-02	5.076E-02	5.093E-03	-0.257
NB-95	1.108E-02		3.455E-02	6.733E-02	7.618E-03	0.165
NB-95M	-1.635E-02		8.214E-02	1.432E-01	1.788E-02	-0.114
ZR-95	5.200E-02		4.367E-02	1.061E-01	1.280E-02	0.490
MO-99	-7.286E-02		2.860E-01	5.029E-01	5.794E-02	-0.145
RU-103	-2.362E-02		2.983E-02	4.671E-02	8.389E-03	-0.506
RU-106	2.122E-01		3.428E-01	6.731E-01	1.097E-01	0.315
AG-108M	-2.956E-02		3.706E-02	5.703E-02	6.630E-03	-0.518
CD-109	-6.493E-01		4.451E-01	6.916E-01	7.823E-02	-0.939
AG-110M	-7.028E-03		2.904E-02	5.169E-02	6.177E-03	-0.136
SN-113	3.087E-02		3.962E-02	7.681E-02	1.053E-02	0.402
TE123M	-4.891E-03		1.975E-02	3.419E-02	3.102E-03	-0.143
SB-124	-7.040E-04		3.543E-02	6.350E-02	8.289E-03	-0.011
I-125	-1.671E-01		3.876E-01	6.687E-01	7.390E-02	-0.250
SB-125	1.108E-02		8.170E-02	1.509E-01	2.106E-02	0.073
SB-126	-3.921E-02		6.072E-02	9.730E-02	1.132E-02	-0.403
SN-126	-5.561E-02		4.376E-02	6.955E-02	6.673E-03	-0.800
SB-127	-7.075E-02		9.012E-02	1.390E-01	1.640E-02	-0.509
I-129	4.418E-02		5.919E-02	1.092E-01	1.527E-02	0.405
I-131	-2.954E-02		3.076E-02	4.769E-02	6.830E-03	-0.619
TE-132	-8.598E-03		2.599E-02	4.444E-02	5.350E-03	-0.193
BA-133	4.994E-03		4.334E-02	7.053E-02	1.243E-02	0.071
I-133	3.968E-03		4.733E-02	8.752E-02	1.214E-02	0.045

Sample ID : 1006061-02 Acquisition date : 9-JUL-2010 11:49:22

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
CS-134	4.479E-04		3.287E-02	5.971E-02	7.783E-03	0.008
CS-135	-2.085E-02		1.124E-01	1.978E-01	2.871E-02	-0.105
I-135	-2.797E-02		4.482E-01	9.156E-01	8.613E-02	-0.031
CS-136	-1.772E-02		5.083E-02	8.727E-02	8.488E-03	-0.203
CS-137	9.278E-03		3.223E-02	6.349E-02	7.536E-03	0.146
LA-138	-4.005E-02		3.607E-02	2.317E-02	2.244E-03	-1.729
CE-139	-1.948E-03		2.021E-02	3.552E-02	3.126E-03	-0.055
BA-140	-4.162E-03		1.144E-01	2.073E-01	7.226E-02	-0.020
LA-140	2.392E-02		4.366E-02	1.009E-01	9.639E-03	0.237
CE-141	-1.107E-02		3.275E-02	5.624E-02	1.074E-02	-0.197
CE-143	-1.508E-02		7.003E-02	1.213E-01	1.849E-02	-0.124
CE-144	1.749E-02		1.449E-01	2.586E-01	2.573E-02	0.068
PM-144	-3.285E-03		3.723E-02	6.632E-02	7.796E-03	-0.050
PM-145	-7.801E-02		1.184E-01	1.806E-01	1.181E-01	-0.432
PM-146	-1.392E-02		5.563E-02	9.813E-02	1.372E-02	-0.142
ND-147	-4.213E-03		2.233E-01	4.045E-01	5.609E-02	-0.010
PM-149	6.141E-02		7.822E-01	1.407E+00	2.146E-01	0.044
EU-152	3.546E-02		2.353E-01	5.114E-01	6.020E-02	0.069
GD-153	-1.935E-02		6.118E-02	1.060E-01	1.042E-02	-0.183
EU-154	-4.866E-02		1.099E-01	2.024E-01	1.914E-02	-0.240
EU-155	-7.417E-02		5.199E-02	8.116E-02	7.699E-03	-0.914
EU-156	-1.501E-01		3.569E-01	5.991E-01	1.424E-01	-0.250
HO-166M	-2.264E-02		6.524E-02	1.115E-01	1.303E-02	-0.203
HF-172	-6.600E-02		1.263E-01	2.142E-01	2.182E-02	-0.308
LU-172	-7.467E-03		5.064E-02	1.026E-01	9.638E-03	-0.073
LU-173	1.965E-02		9.169E-02	1.676E-01	2.476E-02	0.117
HF-175	-1.047E-02		3.104E-02	5.020E-02	7.409E-03	-0.209
LU-176	1.776E-02		2.331E-02	4.461E-02	6.774E-03	0.398
TA-182	0.000E+00		0.000E+00	2.022E-01	1.880E-02	0.000
IR-192	4.876E-02		5.777E-02	1.146E-01	1.606E-02	0.426
HG-203	2.551E-04		2.713E-02	4.835E-02	7.439E-03	0.005
BI-207	9.025E-04		2.941E-02	5.553E-02	7.504E-03	0.016
TL-208	-4.249E-02		1.030E-01	1.773E-01	2.366E-02	-0.240
BI-210M	1.637E-02		4.135E-02	7.705E-02	1.087E-02	0.213
PB-210	3.326E-01		5.152E-01	9.736E-01	8.276E-02	0.342
PB-211	-6.714E-01		7.798E-01	1.221E+00	1.669E-01	-0.550
BI-212	1.441E-01		2.723E-01	5.496E-01	6.376E-02	0.262
PB-212	-3.117E-02		4.709E-02	7.793E-02	9.864E-03	-0.400
BI-214	-4.784E-02		7.254E-02	1.209E-01	1.564E-02	-0.396
PB-214	8.584E-02	+	8.371E-02	1.334E-01	1.947E-02	0.644
RN-219	-3.522E-02		3.561E-01	6.357E-01	8.671E-02	-0.055
RA-223	4.982E-01		5.946E-01	1.144E+00	1.721E-01	0.435
RA-224	3.984E-01		5.127E-01	9.668E-01	1.237E-01	0.412
RA-225	-1.702E-02		6.960E-02	1.219E-01	1.182E-02	-0.140
RA-226	3.202E-01		8.618E-01	1.184E+00	2.169E+00	0.270
TH-227	5.042E-03		1.659E-01	2.955E-01	3.693E-02	0.017
AC-228	5.203E-02		1.082E-01	2.396E-01	2.302E-02	0.217
TH-230	-5.126E+00		4.666E+00	7.590E+00	5.965E-01	-0.675

Sample ID : 1006061-02 Acquisition date : 9-JUL-2010 11:49:22

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-231	-5.406E-01		1.025E+00	1.709E+00	2.599E-01	-0.316
TH-231	-2.922E-01		3.228E-01	5.314E-01	9.478E-02	-0.550
PA-233	-2.789E-02		5.924E-02	9.916E-02	2.546E-02	-0.281
PA-234	7.338E-02		7.699E-02	1.450E-01	1.454E-02	0.506
PA-234M	2.574E+00		3.418E+00	7.948E+00	7.627E-01	0.324
TH-234	-9.220E-02		4.927E-01	9.055E-01	6.857E-02	-0.102
U-235	6.797E-02		1.416E-01	2.608E-01	4.700E-02	0.261
NP-237	-1.819E-01		1.275E-01	1.990E-01	1.888E-02	-0.914
NP-239	-2.023E-02		7.235E-02	1.255E-01	1.241E-02	-0.161
AM-241	-5.639E-02		4.956E-02	8.050E-02	5.927E-03	-0.700
AM-243	6.476E-03		2.594E-02	4.589E-02	3.852E-03	0.141
CM-243	1.751E-01		1.430E-01	2.830E-01	4.285E-02	0.619

Sample ID : 1006061-02 Acquisition date : 9-JUL-2010 11:49:22

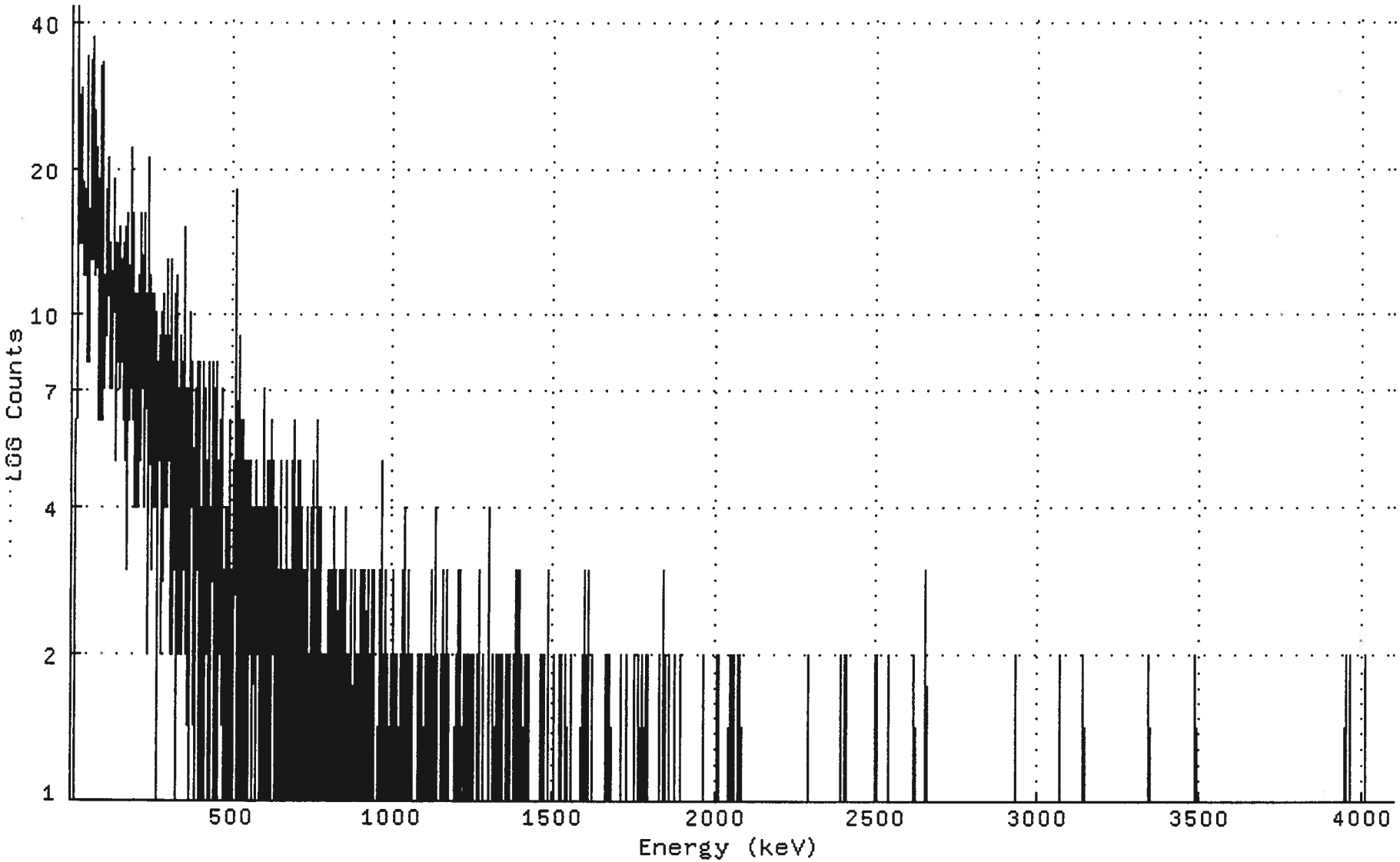
Total number of lines in spectrum	7	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	1	14.29%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606102_GE4_GAS1002_151322.CNF;1
Title :
Sample Title: BLANK

Start Time: 9-JUL-2010 11:49:	Sample Time: 9-JUL-2010 00:00:	Energy Offset: -1.37255E-02
Real Time : 0 01:00:00.88	Sample ID : 1006061-02	Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00	Sample Type: SOIL	Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606102_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	36
17:	43	43	37	31	23	21	19	28
25:	17	14	19	21	17	29	14	21
33:	25	14	12	14	13	16	13	14
41:	13	17	12	18	12	23	34	29
49:	12	16	8	14	16	16	12	8
57:	14	19	14	13	14	17	30	37
65:	22	15	15	15	13	15	17	13
73:	12	20	26	18	22	19	17	15
81:	14	11	19	6	15	19	13	15
89:	6	12	15	32	33	21	6	11
97:	18	9	11	7	12	9	9	9
105:	9	18	11	9	11	12	21	12
113:	13	14	13	13	9	14	9	7
121:	7	13	9	7	9	10	10	10
129:	15	19	12	10	13	16	7	14
137:	10	5	10	11	13	10	8	10
145:	14	9	11	8	9	10	15	7
153:	9	12	13	12	11	8	11	14
161:	8	6	7	11	15	12	6	5
169:	10	9	10	12	3	10	16	10
177:	6	6	10	7	12	7	11	10
185:	16	22	15	16	15	10	8	10
193:	6	10	11	8	4	10	9	6
201:	11	6	9	8	4	9	12	4
209:	6	8	12	7	5	11	12	7
217:	16	9	10	7	12	9	11	16
225:	4	14	8	4	9	11	8	9
233:	7	7	10	4	2	9	21	7
241:	4	6	8	12	12	9	4	7
249:	11	10	3	4	11	9	4	7
257:	6	8	10	5	8	6	6	4
265:	8	5	0	6	4	8	6	5
273:	5	7	9	8	5	10	7	7
281:	6	2	4	3	11	5	6	8
289:	6	6	9	6	6	4	10	5
297:	7	13	4	5	7	8	6	6
305:	5	9	5	4	13	6	4	2
313:	2	7	5	8	7	7	3	6
321:	7	7	11	4	5	6	12	1
329:	5	6	7	5	5	2	6	2
337:	3	9	6	6	3	7	6	7
345:	7	2	8	6	4	3	6	13
353:	15	3	7	2	2	3	6	5
361:	5	7	3	2	2	1	6	2
369:	5	7	10	4	6	7	8	4
377:	7	4	4	5	4	5	2	1
385:	6	2	4	0	7	5	6	3
393:	7	8	4	8	1	2	5	6
401:	5	2	4	0	3	4	1	5
409:	8	2	3	3	7	1	5	1
417:	3	4	5	2	2	3	4	3
425:	4	1	4	3	8	2	3	2

433:	4	4	3	1	8	3	3	3
441:	5	5	4	5	0	7	2	3
449:	8	4	2	1	1	5	2	2
457:	5	1	1	2	5	2	6	3
465:	3	4	7	5	6	4	3	2
473:	1	3	3	2	1	3	2	2
481:	2	1	4	3	1	3	4	1
489:	3	2	1	5	6	1	4	1
497:	2	1	3	3	1	4	5	4
505:	4	3	1	7	5	10	18	15
513:	11	4	0	2	4	1	0	9
521:	4	1	4	3	4	6	1	5
529:	1	2	1	6	4	1	2	2
537:	3	3	3	5	1	3	2	3
545:	3	5	2	1	2	3	5	3
553:	4	1	2	2	2	5	3	4
561:	3	2	1	1	3	4	4	3
569:	3	2	2	3	1	2	4	2
577:	2	5	3	3	3	3	2	4
585:	1	2	4	0	3	1	1	2
593:	2	3	0	4	2	7	1	3
601:	5	3	2	4	4	2	1	4
609:	2	1	3	5	4	2	3	1
617:	3	5	4	2	3	5	6	1
625:	3	0	5	2	2	4	4	5
633:	0	2	1	3	3	4	4	2
641:	2	1	3	3	2	1	2	2
649:	2	1	2	2	1	5	0	1
657:	1	2	2	1	3	3	2	1
665:	0	3	2	2	4	1	4	3
673:	5	1	2	3	3	2	1	3
681:	1	0	2	1	0	2	2	1
689:	3	1	5	2	1	2	6	3
697:	2	1	3	4	4	4	1	2
705:	2	5	2	1	3	2	1	2
713:	3	1	5	2	4	1	1	2
721:	0	2	0	3	1	2	3	3
729:	3	1	2	1	2	0	4	1
737:	2	3	1	2	0	2	2	2
745:	2	2	4	2	1	0	0	2
753:	5	1	0	2	3	2	0	2
761:	0	0	0	1	5	2	0	6
769:	2	4	2	2	1	1	4	2
777:	1	1	1	1	1	1	2	2
785:	0	2	1	2	2	0	1	0
793:	2	1	0	0	1	1	1	1
801:	3	0	2	1	1	3	2	3
809:	2	3	1	3	0	0	0	2
817:	4	1	2	1	1	1	2	1
825:	1	1	3	0	1	2	1	2
833:	2	3	1	0	1	0	0	3
841:	0	0	2	3	1	1	3	0
849:	1	2	2	0	0	4	2	1
857:	2	2	2	2	2	2	1	2
865:	1	1	0	0	2	1	0	1
873:	1	1	3	1	0	0	1	1
881:	0	1	3	1	2	0	1	2
889:	2	1	1	0	1	1	2	1
897:	2	1	0	0	2	3	1	1
905:	0	1	3	1	2	0	1	2

913:	3	0	0	2	1	1	1	1
921:	2	2	3	1	1	2	1	0
929:	1	0	2	2	1	0	1	0
937:	1	0	3	0	2	1	1	3
945:	1	1	0	1	1	1	1	0
953:	1	1	0	1	0	0	2	0
961:	1	2	3	1	5	2	2	1
969:	0	2	0	1	0	0	1	1
977:	2	3	0	1	1	0	0	0
985:	1	1	2	1	0	1	0	1
993:	0	1	1	0	1	2	1	1
1001:	3	2	0	1	0	1	2	0
1009:	1	1	1	1	0	1	1	1
1017:	2	1	1	1	1	0	0	1
1025:	1	2	2	0	1	1	0	1
1033:	0	0	3	1	1	4	2	3
1041:	0	0	2	2	2	1	0	0
1049:	1	2	1	3	1	2	1	1
1057:	1	0	0	0	0	2	1	0
1065:	1	1	0	1	0	0	0	0
1073:	1	0	0	1	1	0	1	1
1081:	1	2	2	0	1	1	1	0
1089:	2	0	2	1	0	2	0	0
1097:	1	1	0	1	1	1	0	2
1105:	1	0	1	1	1	0	2	1
1113:	2	1	1	2	1	1	1	1
1121:	3	0	0	1	0	1	1	0
1129:	0	4	1	1	2	0	2	0
1137:	0	2	2	1	0	0	0	0
1145:	0	0	0	0	2	0	0	2
1153:	0	0	0	1	2	0	3	0
1161:	0	2	1	1	1	3	1	0
1169:	2	1	1	0	1	2	1	2
1177:	0	1	0	1	1	0	1	0
1185:	1	0	1	1	0	1	0	0
1193:	0	0	0	2	0	0	0	2
1201:	0	1	1	3	0	1	0	0
1209:	0	3	0	2	0	0	1	1
1217:	0	1	1	2	2	0	0	1
1225:	1	0	2	1	0	0	0	0
1233:	1	1	2	2	0	2	1	0
1241:	1	0	2	1	0	0	0	1
1249:	1	2	0	0	2	0	0	0
1257:	1	1	0	0	1	1	2	0
1265:	0	2	2	1	1	3	1	0
1273:	1	1	1	0	1	1	1	2
1281:	0	1	0	1	1	1	0	1
1289:	1	1	0	1	1	0	0	0
1297:	0	4	0	1	1	0	0	0
1305:	0	0	0	1	2	0	0	1
1313:	1	0	0	1	1	0	1	2
1321:	0	0	1	2	0	1	0	0
1329:	1	2	0	0	2	0	1	0
1337:	0	0	2	1	0	0	0	0
1345:	0	0	0	1	1	0	1	0
1353:	0	2	2	1	1	0	1	2
1361:	1	0	2	0	1	0	0	1
1369:	0	1	1	1	1	1	1	2
1377:	1	0	0	0	3	2	0	2
1385:	0	0	0	0	0	3	0	3

1393:	1	3	0	1	2	1	0	0
1401:	2	1	1	0	0	1	0	1
1409:	2	1	1	0	0	0	1	1
1417:	2	2	0	0	1	1	2	0
1425:	0	0	0	1	1	0	0	0
1433:	0	0	0	0	0	0	0	1
1441:	1	1	0	1	1	0	0	1
1449:	0	0	0	0	0	0	0	0
1457:	0	1	1	2	1	2	0	0
1465:	1	2	0	0	1	0	2	1
1473:	1	0	1	0	0	0	0	1
1481:	3	0	0	0	0	0	0	0
1489:	1	0	0	0	0	0	1	0
1497:	0	0	2	0	0	1	0	0
1505:	0	1	0	0	0	0	1	0
1513:	0	0	0	0	0	2	0	0
1521:	0	0	2	0	0	0	1	0
1529:	0	0	0	0	0	0	1	0
1537:	0	2	0	1	0	1	0	0
1545:	0	0	1	0	1	0	1	2
1553:	0	0	0	0	0	0	0	0
1561:	0	1	0	1	0	1	1	1
1569:	0	0	0	0	1	0	1	0
1577:	0	1	0	0	0	0	0	0
1585:	1	0	2	0	1	1	0	1
1593:	0	1	0	0	3	2	1	0
1601:	0	0	2	0	1	3	3	1
1609:	0	0	1	1	0	1	0	0
1617:	1	0	2	0	0	0	0	1
1625:	1	0	0	0	0	1	0	0
1633:	0	0	0	0	0	0	0	1
1641:	1	0	1	0	0	0	0	1
1649:	1	0	0	0	0	0	0	0
1657:	0	0	2	0	0	0	0	2
1665:	0	1	0	0	0	0	0	0
1673:	1	1	2	0	1	1	0	0
1681:	0	0	0	1	0	0	0	0
1689:	0	0	0	0	1	0	0	0
1697:	0	1	0	0	0	0	1	0
1705:	0	2	0	0	0	0	0	0
1713:	0	1	0	0	0	0	0	0
1721:	0	1	0	2	1	0	1	1
1729:	0	0	1	0	0	0	0	0
1737:	0	1	0	1	0	1	1	0
1745:	1	0	0	1	0	1	2	0
1753:	0	0	0	1	0	0	0	2
1761:	1	0	0	1	1	0	0	0
1769:	0	2	1	0	0	0	0	1
1777:	1	0	0	0	0	2	2	0
1785:	0	0	1	0	0	0	0	2
1793:	0	0	0	1	1	0	0	1
1801:	0	0	0	1	1	0	1	0
1809:	0	0	0	1	0	1	1	1
1817:	0	0	0	0	0	1	0	1
1825:	0	0	2	0	0	0	0	1
1833:	0	0	0	1	2	0	3	0
1841:	0	2	0	0	1	0	0	0
1849:	1	0	0	0	0	0	1	2
1857:	1	0	0	1	0	0	1	1
1865:	0	0	0	1	0	1	1	0

1873:	2	0	1	0	0	0	0	0
1881:	0	0	1	1	1	0	0	0
1889:	0	0	0	0	2	0	0	0
1897:	0	0	1	0	0	1	0	0
1905:	0	0	0	1	0	1	0	0
1913:	0	1	1	0	0	0	0	1
1921:	0	0	0	1	0	0	1	0
1929:	0	0	0	1	1	0	0	0
1937:	0	1	1	0	1	1	0	0
1945:	0	1	0	0	0	0	0	1
1953:	0	0	0	0	0	1	1	0
1961:	0	0	2	1	1	0	0	1
1969:	1	0	0	1	0	0	1	0
1977:	1	0	1	0	0	0	1	0
1985:	0	1	0	0	0	0	1	0
1993:	0	0	0	0	0	0	0	0
2001:	1	0	0	0	0	1	2	0
2009:	0	0	2	0	1	0	0	0
2017:	0	0	0	0	0	1	0	0
2025:	1	0	0	0	0	1	1	0
2033:	0	0	0	0	0	0	0	0
2041:	0	1	2	0	0	1	0	0
2049:	2	0	0	0	1	1	1	1
2057:	2	0	1	0	1	0	0	0
2065:	0	0	1	1	0	2	0	1
2073:	0	0	0	0	0	2	1	0
2081:	1	0	0	0	0	0	0	0
2089:	0	0	0	1	1	0	1	1
2097:	0	0	0	1	0	0	0	0
2105:	0	0	0	0	0	0	0	1
2113:	0	0	0	0	1	0	0	0
2121:	0	0	0	0	0	0	0	0
2129:	0	1	1	0	1	0	0	0
2137:	1	1	0	0	0	0	0	0
2145:	1	0	0	0	0	0	0	0
2153:	0	1	0	0	0	0	0	0
2161:	0	1	0	0	0	0	0	0
2169:	0	1	1	1	0	0	0	0
2177:	0	0	1	0	0	0	0	0
2185:	0	0	1	0	0	0	1	0
2193:	0	0	0	0	0	0	0	0
2201:	0	0	0	0	0	0	0	0
2209:	0	0	0	0	0	0	0	0
2217:	0	0	0	0	0	0	0	1
2225:	0	0	1	0	1	0	1	0
2233:	0	0	0	0	0	0	0	1
2241:	0	0	0	1	0	1	0	1
2249:	0	1	0	0	0	0	0	0
2257:	0	0	0	1	0	0	0	0
2265:	1	1	0	0	0	0	1	0
2273:	0	0	0	0	0	1	0	0
2281:	0	0	1	1	0	0	0	1
2289:	0	2	0	0	0	0	0	0
2297:	1	0	0	0	0	0	1	1
2305:	0	0	0	0	0	0	0	0
2313:	0	0	0	1	0	0	0	0
2321:	0	0	0	0	0	0	0	0
2329:	0	0	1	0	0	0	0	1
2337:	0	0	0	1	1	0	0	1
2345:	0	0	0	0	0	0	0	0

2353:	0	0	0	0	0	0	0	0
2361:	0	0	1	0	0	0	0	1
2369:	0	0	0	0	0	0	0	0
2377:	1	1	0	0	0	0	0	1
2385:	0	0	0	0	2	0	0	1
2393:	0	1	0	1	0	0	0	1
2401:	1	2	0	0	0	0	0	2
2409:	0	0	0	0	0	0	0	0
2417:	0	0	0	0	0	0	1	0
2425:	0	0	1	0	0	1	0	0
2433:	0	0	1	0	0	0	0	0
2441:	1	0	0	0	0	0	0	1
2449:	0	0	0	1	0	0	0	0
2457:	0	0	0	0	1	0	0	0
2465:	0	0	0	0	0	0	0	0
2473:	0	0	0	0	0	0	0	0
2481:	0	0	0	1	0	1	0	0
2489:	0	1	0	0	0	0	0	0
2497:	1	2	0	0	0	2	0	0
2505:	0	0	1	1	1	0	0	0
2513:	0	0	0	0	0	0	1	0
2521:	0	0	1	0	0	0	0	0
2529:	1	0	0	1	0	0	0	0
2537:	0	2	0	0	0	0	1	0
2545:	0	0	0	0	1	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	0	0	0	0	0	0	1	0
2577:	0	0	1	0	0	1	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	0	1
2601:	0	0	0	0	0	0	0	0
2609:	0	0	1	1	0	0	0	0
2617:	2	0	0	1	0	0	1	1
2625:	0	0	1	0	0	0	0	1
2633:	0	0	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	1	0	0	3	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	0	1	0	0	0	0	0	0
2673:	0	0	0	0	0	0	0	1
2681:	0	0	0	0	0	0	0	0
2689:	1	0	0	0	0	0	0	0
2697:	0	0	0	0	0	0	0	1
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	0	1	1	1	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	0	1	0	1	0	0	0
2753:	0	0	1	0	0	1	0	0
2761:	0	1	0	0	0	0	0	1
2769:	0	1	0	0	0	0	0	0
2777:	0	0	1	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	0	1	0	1	1	0
2801:	0	0	0	1	0	0	0	0
2809:	0	0	0	0	0	0	0	1
2817:	1	0	0	0	0	0	0	0
2825:	0	0	0	1	0	1	0	0

2833:	0	0	0	0	0	0	0	0
2841:	1	1	0	0	0	0	0	1
2849:	0	0	0	0	0	0	0	0
2857:	1	0	1	0	0	1	0	1
2865:	0	1	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	1	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	1	0	0	1
2905:	1	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	0	0	2
2929:	1	0	0	1	0	0	0	0
2937:	0	1	0	1	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	0	1	0	0	0	0
2961:	0	0	0	0	1	0	0	0
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	1	0	0	0	0	1	0	0
2993:	0	0	0	0	0	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	1	0	0	1	0
3017:	1	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	0
3033:	1	0	0	0	0	0	0	0
3041:	0	0	0	0	0	1	0	0
3049:	0	0	0	0	0	0	1	1
3057:	0	0	0	0	0	0	0	0
3065:	0	2	1	1	0	0	0	0
3073:	1	0	0	0	0	0	1	0
3081:	0	0	0	0	0	0	0	0
3089:	1	0	0	0	0	0	0	1
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	0	1
3113:	0	1	0	0	0	0	0	0
3121:	0	1	0	1	0	0	0	0
3129:	1	0	0	0	0	0	0	0
3137:	0	2	0	1	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	1	0	0	0	0	0
3161:	0	0	0	1	0	0	0	0
3169:	0	0	0	0	0	0	0	1
3177:	0	1	0	0	0	1	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	1	0	0	0	0	1
3201:	0	0	0	0	0	0	0	0
3209:	1	0	0	0	1	1	0	1
3217:	0	0	0	0	0	0	0	1
3225:	0	0	0	0	0	1	0	0
3233:	0	0	0	0	1	0	0	0
3241:	0	0	0	0	1	0	1	0
3249:	0	0	0	0	0	0	0	0
3257:	1	0	0	0	0	0	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	1
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	0	0	0	0	1	0	1	0

3313:	0	0	0	0	0	0	1	0
3321:	1	0	0	1	0	1	0	0
3329:	0	0	0	0	0	0	0	0
3337:	1	0	1	2	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	1	0	0
3369:	0	0	0	0	1	0	0	1
3377:	0	0	0	0	0	0	1	0
3385:	0	0	0	1	0	0	0	0
3393:	0	0	0	1	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	1	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	1	0	0	1	0	0	0
3449:	1	0	1	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	1	0	0	0	0
3473:	1	0	0	0	0	0	0	0
3481:	0	2	0	0	0	0	0	0
3489:	0	0	0	0	0	1	0	1
3497:	0	0	0	1	1	0	1	0
3505:	0	1	0	0	0	0	0	0
3513:	0	1	0	0	0	1	0	0
3521:	0	0	0	0	0	1	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	1
3553:	0	0	1	0	0	1	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	1	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	1	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	1	0	0	0
3625:	0	0	0	0	1	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	0	0	0	0	0	0	0	1
3657:	0	0	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	1	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	1	0	0	0	1	0	0
3697:	0	0	0	0	0	0	0	1
3705:	0	0	0	0	0	0	1	0
3713:	0	0	1	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	1
3745:	0	0	0	0	0	0	0	1
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	1	1	0	0	0	0	0
3777:	0	0	0	0	1	0	0	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0
3825:	0	0	0	0	1	0	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	1	0	0	0
3857:	0	0	1	0	0	0	0	0
3865:	0	1	0	0	1	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	1	0	0	0	1	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	1	0	0	0	1	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	1	0	1	0
3945:	2	0	0	0	0	0	0	0
3953:	0	0	0	0	1	1	2	0
3961:	0	0	0	0	0	0	0	0
3969:	1	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	2	0	0	0	0	0	0	0
4017:	0	0	1	0	0	0	1	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	1	1	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	1	0	0
4089:	0	0	1	0	0	0	1	0

KM 7-9-10

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

VAX/VMS Peak Search Report Generated 9-JUL-2010 05:29:32.45

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606103_GE1_GAS1002_151283.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-1
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 04:29:13.
Sample ID : 1006061-03 Sample Quantity : 6.28310E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.79 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
6	64.10*	408	1103	3.57	63.54	59	23	31.8	1.20E+01	TH-234
6	76.12*	1326	1455	3.59	75.57	59	23	12.6		AM-243
7	86.35	330	1054	3.27	85.81	82	21	35.8	7.87E+00	NP-237
										SN-126
7	92.73*	419	974	2.74	92.19	82	21	28.9		
0	120.55	83	553	3.20	120.03	118	6	92.0		
0	128.29	158	815	5.70	127.78	124	9	67.2		
0	186.36*	320	819	1.53	185.88	181	10	35.8		RA-226
0	208.41	149	652	1.22	207.96	203	10	66.3		
7	238.48*	769	699	4.21	238.05	232	16	17.0	4.00E+01	PB-212
7	242.30*	379	487	3.46	241.87	232	16	29.1		RA-224
0	270.31	87	286	2.16	269.89	266	7	68.4		
0	276.28	80	331	4.46	275.87	273	8	81.9		
0	295.28*	397	441	1.65	294.89	291	9	21.5		PB-214
0	328.62	53	242	2.67	328.26	325	7	101.4		
0	339.13	204	308	1.99	338.77	335	10	35.2		AC-228
5	348.89	67	168	2.69	348.53	345	17	66.5	4.72E+00	
5	352.40*	765	158	2.01	352.05	345	17	9.0		PB-214
5	357.05	43	272	3.59	356.70	345	17	197.9		
0	410.00	129	508	9.54	409.69	396	23	92.8		
0	479.66	45	132	1.88	479.40	474	9	97.6		
1	503.17	30	116	2.53	502.93	499	18	129.4	2.48E+00	
1	511.00*	75	116	2.53	510.77	499	18	63.0		
1	514.00	31	102	2.31	513.77	499	18	137.3		KR-85
										SR-85
0	583.55*	349	166	2.11	583.37	578	11	17.9		TL-208
0	609.74*	589	170	2.06	609.58	604	11	12.0		BI-214
0	725.49	74	220	2.17	725.41	721	18	95.8		
0	769.34	82	105	2.65	769.29	765	11	53.4		
0	796.44	36	93	2.24	796.41	791	9	102.0		
0	860.81	40	42	1.55	860.83	857	7	62.8		TL-208
0	911.76*	192	85	2.13	911.81	908	10	23.2		AC-228
0	935.45	35	67	1.72	935.53	931	8	87.6		
0	968.58	175	82	2.29	968.68	963	12	25.8		AC-228
0	1120.32	165	49	1.83	1120.53	1115	12	22.9		BI-214
0	1239.89	44	90	1.42	1240.19	1234	10	86.6		

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Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1377.27	67	25	2.46	1377.67	1371	13	39.4		
0	1461.08*	809	25	2.40	1461.54	1455	14	7.5		K-40
0	1512.45	37	8	4.64	1512.95	1508	11	44.3		
1	1588.71	15	23	2.90	1589.26	1584	15	126.7	1.94E+00	
1	1592.71	22	18	2.90	1593.26	1584	15	88.3		
0	1608.78	11	11	3.87	1609.35	1601	12	135.1		
0	1620.62	14	13	1.72	1621.20	1616	9	111.8		
0	1661.90	15	17	1.64	1662.51	1659	9	107.9		
0	1679.73	22	9	11.82	1680.35	1672	17	75.6		
0	1692.76	9	2	2.37	1693.39	1690	7	79.3		
0	1729.86	27	12	1.96	1730.52	1725	12	64.8		
0	1747.41	7	4	1.87	1748.08	1746	6	111.0		
0	1764.66*	97	25	2.55	1765.34	1760	12	28.9		BI-214
0	1849.22	12	18	1.56	1849.97	1845	8	133.2		
0	1942.92	19	5	1.96	1943.73	1938	11	66.1		
0	2067.10	6	0	2.87	2068.00	2064	7	81.6		
0	2077.50	6	1	2.67	2078.41	2075	6	109.2		
0	2103.80	28	8	2.91	2104.73	2099	11	55.2		
0	2193.62	13	0	1.16	2194.62	2189	11	55.5		
0	2203.79*	35	9	1.91	2204.79	2200	11	47.0		BI-214
0	2306.70	11	8	0.99	2307.78	2301	10	108.6		
0	2330.66	9	4	3.31	2331.76	2327	8	100.1		
0	2614.34*	117	11	3.22	2615.64	2610	11	21.9		TL-208

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

Total number of lines in spectrum	57	
Number of unidentified lines	27	
Number of lines tentatively identified by NID	30	52.63%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.795E+01	1.795E+01	0.242E+01	13.50	
TL-208	1.41E+10Y	1.00	1.185E+00	1.185E+00	0.188E+00	15.85	
PB-212	1.41E+10Y	1.00	1.013E+00	1.013E+00	0.206E+00	20.31	
BI-214	1602.00Y	1.00	1.669E+00	1.669E+00	0.206E+00	12.35	
PB-214	1602.00Y	1.00	1.535E+00	1.535E+00	0.189E+00	12.31	
RA-224	1.41E+10Y	1.00	5.675E+00	5.675E+00	1.770E+00	31.18	
RA-226	1602.00Y	1.00	4.970E+00	4.970E+00	9.277E+00	186.66	
AC-228	1.41E+10Y	1.00	1.338E+00	1.338E+00	0.225E+00	16.82	
TH-234	4.47E+09Y	1.00	4.798E+00	4.798E+00	1.640E+00	34.17	
			---	---			
	Total Activity :		4.013E+01	4.013E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
KR-85	10.72Y	1.01	7.445E+00	7.495E+00	10.32E+00	137.74	
SR-85	64.84D	1.49	3.255E-02	4.845E-02	6.674E-02	137.74	
SN-126	1.00E+05Y	1.00	3.742E-01	3.742E-01	1.603E-01	42.84	
NP-237	2.14E+06Y	1.00	1.100E+00	1.100E+00	0.468E+00	42.56	
			---	---			
	Total Activity :		8.952E+00	9.017E+00			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	8.574E-01	8.574E-01	1.849E-01	21.57	
			---	---			
	Total Activity :		8.574E-01	8.574E-01			

Grand Total Activity : 4.994E+01 5.001E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-03
Acquisition date : 9-JUL-2010 04:29:13

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	1.795E+01	1.795E+01	13.50	OK
	Final Mean for 1 Valid Peaks = 1.795E+01+/- 2.424E+00 (13.50%)						
TL-208	583.14	30.22*	1.026E+00	1.344E+00	1.344E+00	21.36	OK
	860.37	4.48	7.447E-01	1.422E+00	1.422E+00	63.55	OK
	2614.66	35.85	3.778E-01	1.036E+00	1.036E+00	24.90	OK
	Final Mean for 3 Valid Peaks = 1.185E+00+/- 1.877E-01 (15.85%)						
PB-212	238.63	44.60*	2.033E+00	1.013E+00	1.013E+00	20.31	OK
	300.09	3.41	1.740E+00	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 1.013E+00+/- 2.058E-01 (20.31%)						
BI-214	609.31	46.30*	9.893E-01	1.536E+00	1.537E+00	16.76	OK
	1120.29	15.10	6.070E-01	2.156E+00	2.156E+00	24.66	OK
	1764.49	15.80	4.502E-01	1.630E+00	1.630E+00	30.78	OK
	2204.22	4.98	4.030E-01	2.107E+00	2.107E+00	48.36	OK
	Final Mean for 4 Valid Peaks = 1.669E+00+/- 2.060E-01 (12.35%)						
PB-214	295.21	19.19	1.761E+00	1.404E+00	1.404E+00	24.61	OK
	351.92	37.19*	1.545E+00	1.590E+00	1.590E+00	14.19	OK
	Final Mean for 2 Valid Peaks = 1.535E+00+/- 1.889E-01 (12.31%)						
RA-224	240.98	3.95*	2.021E+00	5.675E+00	5.675E+00	31.18	OK
	Final Mean for 1 Valid Peaks = 5.675E+00+/- 1.770E+00 (31.18%)						
RA-226	186.21	3.28*	2.345E+00	4.970E+00	4.970E+00	186.66	OK
	Final Mean for 1 Valid Peaks = 4.970E+00+/- 9.277E+00 (186.66%)						
AC-228	338.32	11.40	1.592E+00	1.346E+00	1.346E+00	36.94	OK
	911.07	27.70*	7.115E-01	1.165E+00	1.165E+00	24.94	OK
	969.11	16.60	6.778E-01	1.856E+00	1.856E+00	27.39	OK
	Final Mean for 3 Valid Peaks = 1.338E+00+/- 2.250E-01 (16.82%)						
TH-234	63.29	3.80*	2.676E+00	4.798E+00	4.798E+00	34.17	OK
	Final Mean for 1 Valid Peaks = 4.798E+00+/- 1.640E+00 (34.17%)						

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
KR-85	513.99	0.43*	1.140E+00	7.445E+00	7.495E+00	137.74	OK
Final Mean for 1 Valid Peaks = 7.495E+00+/- 1.032E+01 (137.74%)							
SR-85	513.99	99.27*	1.140E+00	3.255E-02	4.845E-02	137.74	OK
Final Mean for 1 Valid Peaks = 4.845E-02+/- 6.674E-02 (137.74%)							
SN-126	87.57	37.00*	2.851E+00	3.742E-01	3.742E-01	42.84	OK
Final Mean for 1 Valid Peaks = 3.742E-01+/- 1.603E-01 (42.84%)							
NP-237	86.50	12.60*	2.849E+00	1.100E+00	1.100E+00	42.56	OK
Final Mean for 1 Valid Peaks = 1.100E+00+/- 4.680E-01 (42.56%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
AM-243	74.67	66.00*	2.800E+00	8.574E-01	8.574E-01	21.57	OK
Final Mean for 1 Valid Peaks = 8.574E-01+/- 1.849E-01 (21.57%)							

Flag: "*" = Keyline

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	1.795E+01	2.424E+00	4.686E-01	4.907E-02	38.311
KR-85	7.495E+00	1.032E+01	1.318E+01	1.367E+00	0.568
SR-85	4.845E-02	6.674E-02	8.523E-02	8.840E-03	0.568
SN-126	3.742E-01	1.603E-01	1.480E-01	3.431E-02	2.529
TL-208	1.185E+00	1.877E-01	1.963E-01	2.133E-02	6.034
PB-212	1.013E+00	2.058E-01	1.219E-01	1.256E-02	8.310
BI-214	1.669E+00	2.060E-01	1.412E-01	1.555E-02	11.821
PB-214	1.535E+00	1.889E-01	1.343E-01	1.372E-02	11.426
RA-224	5.675E+00	1.770E+00	1.386E+00	1.436E-01	4.096
RA-226	4.970E+00	9.277E+00	1.626E+00	2.978E+00	3.057
AC-228	1.338E+00	2.250E-01	2.746E-01	2.231E-02	4.871
TH-234	4.798E+00	1.640E+00	1.550E+00	1.831E-01	3.095
NP-237	1.100E+00	4.680E-01	4.347E-01	9.851E-02	2.529
AM-243	8.574E-01	1.849E-01	8.560E-02	1.460E-02	10.017

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	4.036E-01		5.031E-01	8.810E-01	8.858E-02	0.458
NA-22	-1.961E-02		4.454E-02	7.672E-02	7.289E-03	-0.256
AL-26	-6.990E-04		2.015E-02	4.005E-02	3.879E-03	-0.017
TI-44	8.927E-02		4.475E-02	6.821E-02	9.499E-03	1.309
SC-46	4.221E-02		5.082E-02	9.673E-02	7.999E-03	0.436
V-48	-1.566E-02		1.764E-01	3.171E-01	2.610E-02	-0.049
CR-51	-8.431E-02		9.488E-01	1.396E+00	1.565E-01	-0.060
MN-54	-3.017E-04		4.323E-02	7.730E-02	7.139E-03	-0.004
CO-56	-4.555E-02		5.168E-02	8.622E-02	7.792E-03	-0.528
CO-57	2.248E-02		4.493E-02	6.801E-02	6.545E-03	0.331
CO-58	-2.876E-02		5.394E-02	9.299E-02	8.958E-03	-0.309
FE-59	-3.914E-02		1.477E-01	2.577E-01	2.319E-02	-0.152
CO-60	-3.790E-03		4.831E-02	8.553E-02	7.023E-03	-0.044
ZN-65	6.419E-02		1.018E-01	1.724E-01	1.426E-02	0.372
SE-75	-7.971E-02		7.592E-02	1.048E-01	1.157E-02	-0.761
RB-82	2.655E-01		8.067E-01	1.327E+00	1.340E-01	0.200
RB-83	2.199E-02		1.085E-01	1.640E-01	2.739E-02	0.134
Y-88	-1.770E-03		3.259E-02	6.031E-02	5.795E-03	-0.029
NB-93M	-3.433E+01		1.728E+01	2.221E+00	1.105E+00	-15.457
NB-94	-1.278E-02		3.802E-02	6.429E-02	5.534E-03	-0.199
NB-95	1.550E-01		9.761E-02	1.710E-01	1.752E-02	0.906
ZR-95	-3.503E-03		9.940E-02	1.778E-01	1.972E-02	-0.020
RU-103	-1.262E-02		7.755E-02	1.135E-01	1.724E-02	-0.111
RU-106	5.810E-02		3.768E-01	6.615E-01	9.963E-02	0.088
AG-108M	1.452E-02		4.517E-02	7.354E-02	7.888E-03	0.197
CD-109	5.957E+00		1.870E+00	1.996E+00	4.818E-01	2.985
AG-110M	1.884E-02		3.916E-02	7.252E-02	8.145E-03	0.260
SN-113	3.834E-02		7.284E-02	1.116E-01	1.049E-02	0.344
TE123M	-2.931E-02		4.823E-02	7.854E-02	6.831E-03	-0.373

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SB-124	1.040E-02		6.274E-02	1.004E-01	1.103E-02	0.104
I-125	-7.731E-01		9.507E-01	1.556E+00	2.279E-01	-0.497
SB-125	6.744E-03		1.209E-01	2.016E-01	1.958E-02	0.033
SB-126	-2.793E-01		6.132E-01	9.278E-01	9.974E-02	-0.301
I-129	-3.421E-02		8.514E-02	1.422E-01	2.558E-02	-0.241
I-131	-5.007E-01		1.058E+00	1.512E+00	1.499E-01	-0.331
BA-133	5.672E-02	+	1.125E-01	1.328E-01	1.890E-02	0.427
CS-134	3.304E-02		4.617E-02	7.617E-02	8.384E-03	0.434
CS-135	3.880E-01		2.273E-01	3.605E-01	3.999E-02	1.076
CS-136	3.738E-01		3.538E-01	6.866E-01	5.876E-02	0.544
CS-137	2.774E-03		4.140E-02	7.446E-02	8.383E-03	0.037
LA-138	7.293E-02		4.760E-02	1.033E-01	1.062E-02	0.706
CE-139	3.227E-02		4.893E-02	8.277E-02	7.052E-03	0.390
BA-140	-1.243E+00		1.138E+00	1.615E+00	5.442E-01	-0.770
LA-140	2.428E-01		3.769E-01	5.396E-01	5.471E-02	0.450
CE-141	2.022E-02		1.540E-01	2.567E-01	6.965E-02	0.079
CE-144	-3.191E-02		3.566E-01	5.281E-01	4.925E-02	-0.060
PM-144	-2.608E-02		4.004E-02	6.920E-02	7.606E-03	-0.377
PM-145	-4.719E-02		1.806E-01	2.986E-01	1.972E-01	-0.158
PM-146	3.254E-02		8.435E-02	1.438E-01	1.413E-02	0.226
ND-147	1.458E+00		2.788E+00	4.803E+00	5.046E-01	0.303
EU-152	1.316E-01		2.607E-01	4.974E-01	6.102E-02	0.265
GD-153	-2.416E-02		1.816E-01	2.691E-01	4.633E-02	-0.090
EU-154	-5.528E-02		1.229E-01	2.115E-01	2.009E-02	-0.261
EU-155	4.548E-01	+	1.935E-01	2.258E-01	5.117E-02	2.014
EU-156	-7.591E-01		1.906E+00	3.314E+00	7.698E-01	-0.229
HO-166M	5.147E-03		6.550E-02	1.181E-01	1.280E-02	0.044
HF-172	3.581E-01		3.964E-01	4.884E-01	4.649E-02	0.733
LU-172	3.614E+00		3.316E+00	6.380E+00	5.276E-01	0.567
LU-173	3.752E-01		2.234E-01	2.921E-01	3.271E-02	1.285
HF-175	6.207E-02		7.742E-02	9.715E-02	1.011E-02	0.639
LU-176	-3.161E-02		3.450E-02	5.456E-02	6.033E-03	-0.579
TA-182	1.169E+00	+	2.883E-01	4.625E-01	3.819E-02	2.528
IR-192	-1.699E-01		1.142E-01	1.591E-01	1.586E-02	-1.068
HG-203	8.469E-02		8.170E-02	1.272E-01	1.472E-02	0.666
BI-207	-2.730E-03		3.759E-02	6.225E-02	6.712E-03	-0.044
BI-210M	-9.266E-03		7.797E-02	1.147E-01	1.253E-02	-0.081
PB-210	1.037E+00		9.210E-01	1.607E+00	1.858E-01	0.645
PB-211	8.402E-01		1.193E+00	2.052E+00	1.909E-01	0.409
BI-212	9.696E-01		3.871E-01	7.462E-01	7.971E-02	1.299
RN-219	2.528E-01		5.221E-01	8.900E-01	8.249E-02	0.284
RA-223	-1.469E-01		9.672E-01	1.416E+00	1.527E-01	-0.104
RA-225	-3.644E-01		6.879E-01	1.141E+00	1.488E-01	-0.319
TH-227	3.207E+00		5.188E-01	7.617E-01	7.796E-02	4.210
TH-230	2.324E+01		1.144E+01	1.743E+01	2.411E+00	1.333
PA-231	2.131E-01		1.627E+00	2.424E+00	2.694E-01	0.088
TH-231	-1.165E+01		2.716E+00	6.946E-01	1.541E-01	-16.767
PA-233	1.073E-01		2.139E-01	3.617E-01	8.487E-02	0.297

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234	1.630E-01		1.742E-01	2.669E-01	2.504E-02	0.611
PA-234M	1.860E+00		4.340E+00	8.152E+00	6.723E-01	0.228
U-235	1.600E-01		3.198E-01	5.367E-01	9.519E-02	0.298
AM-241	1.341E-01		1.121E-01	1.732E-01	1.742E-02	0.774
CM-243	3.711E-01	+	3.073E-01	4.134E-01	4.691E-02	0.898

Sample ID : 1006061-03 Acquisition date : 9-JUL-2010 04:29:13

Total number of lines in spectrum	57	
Number of unidentified lines	27	
Number of lines tentatively identified by NID	30	52.63%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.795E+01	1.795E+01	0.242E+01	13.50	
TL-208	1.41E+10Y	1.00	1.185E+00	1.185E+00	0.188E+00	15.85	
PB-212	1.41E+10Y	1.00	1.013E+00	1.013E+00	0.206E+00	20.31	
BI-214	1602.00Y	1.00	1.669E+00	1.669E+00	0.206E+00	12.35	
PB-214	1602.00Y	1.00	1.535E+00	1.535E+00	0.189E+00	12.31	
RA-224	1.41E+10Y	1.00	5.675E+00	5.675E+00	1.770E+00	31.18	
RA-226	1602.00Y	1.00	4.970E+00	4.970E+00	9.277E+00	186.66	
AC-228	1.41E+10Y	1.00	1.338E+00	1.338E+00	0.225E+00	16.82	
TH-234	4.47E+09Y	1.00	4.798E+00	4.798E+00	1.640E+00	34.17	
			---	---			
	Total Activity :		4.013E+01	4.013E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
KR-85	10.72Y	1.01	7.445E+00	7.495E+00	10.32E+00	137.74	
SR-85	64.84D	1.49	3.255E-02	4.845E-02	6.674E-02	137.74	
SN-126	1.00E+05Y	1.00	3.742E-01	3.742E-01	1.603E-01	42.84	
NP-237	2.14E+06Y	1.00	1.100E+00	1.100E+00	0.468E+00	42.56	
			---	---			
	Total Activity :		8.952E+00	9.017E+00			

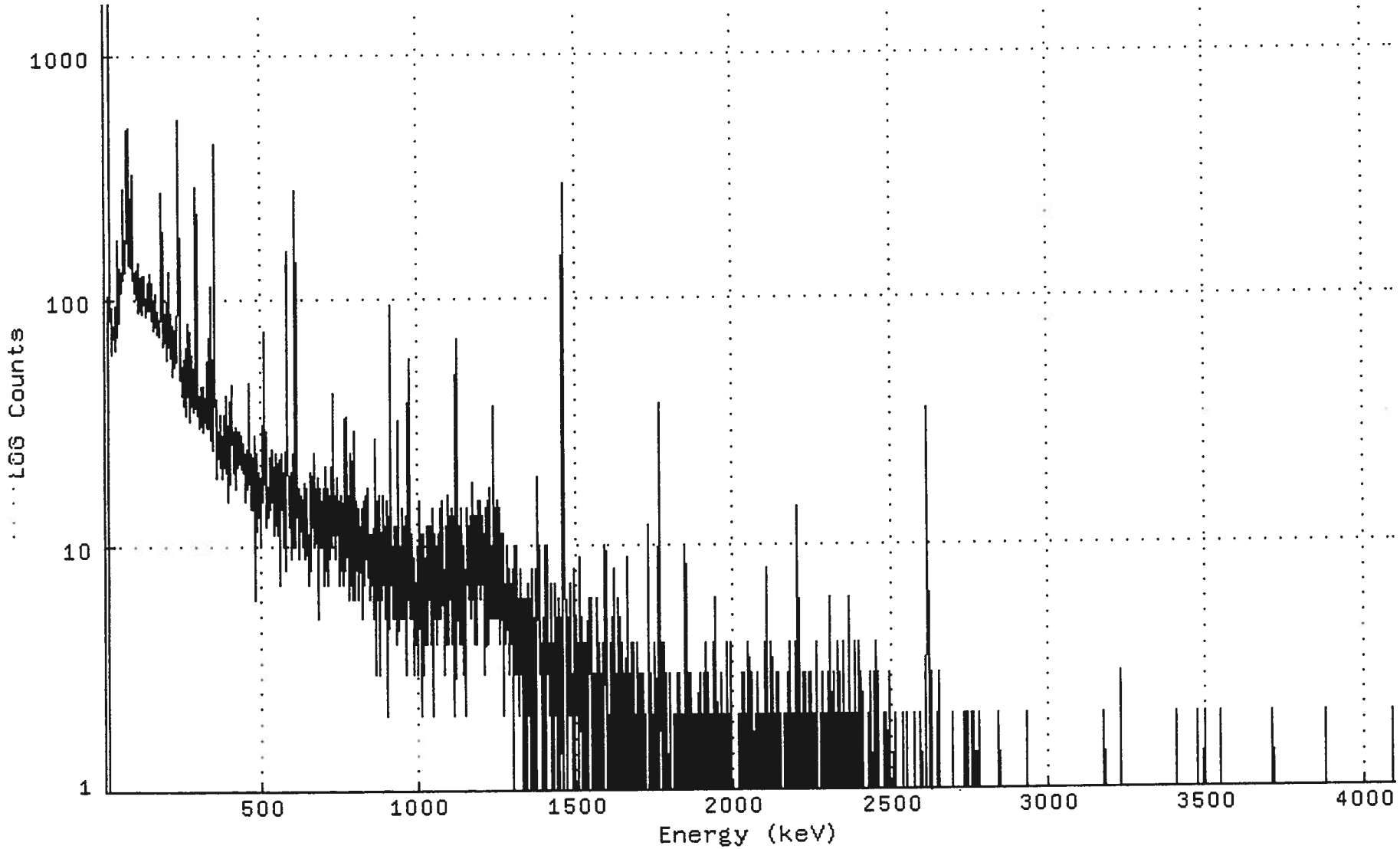
Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	8.574E-01	8.574E-01	1.849E-01	21.57	
			---	---			
	Total Activity :		8.574E-01	8.574E-01			

Grand Total Activity : 4.994E+01 5.001E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606103_GE1_GAS1002_151283.CNF;1
Title :
Sample Title: S-1
Start Time: 9-JUL-2010 04:29: Sample Time: 2-JUN-2010 00:00: Energy Offset: 6.08450E-01
Real Time : 0 01:00:01.79 Sample ID : 1006061-03 Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



0085

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606103_GE1_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	3	102
17:	100	83	214	1597	160	93	92	88
25:	66	61	70	73	73	74	73	79
33:	75	73	67	71	65	84	94	63
41:	104	72	101	91	109	176	105	93
49:	104	81	104	119	124	107	125	124
57:	130	119	120	139	137	223	280	184
65:	165	165	167	161	130	165	171	177
73:	240	440	333	478	496	203	154	174
81:	138	138	167	183	136	252	255	163
89:	219	208	192	326	269	166	121	116
97:	114	117	113	130	106	104	116	109
105:	131	130	101	141	115	107	89	117
113:	109	111	114	104	91	98	122	105
121:	124	100	87	94	114	104	109	124
129:	126	114	102	85	96	100	89	100
137:	96	101	99	108	107	91	109	128
145:	115	96	91	111	104	104	96	92
153:	83	116	85	89	87	95	99	75
161:	86	80	105	79	94	98	92	82
169:	78	89	82	73	89	78	75	83
177:	79	77	71	92	85	102	100	89
185:	162	272	131	88	83	88	65	67
193:	80	74	69	87	68	72	98	95
201:	58	62	69	70	80	88	75	66
209:	129	85	76	63	67	88	59	70
217:	61	63	49	76	79	70	63	71
225:	76	71	58	54	58	65	67	57
233:	58	71	104	149	98	351	536	134
241:	141	178	106	61	60	55	40	48
249:	53	54	53	47	58	37	51	49
257:	45	51	64	44	50	41	34	36
265:	49	40	52	41	59	80	69	32
273:	44	55	52	52	65	55	45	43
281:	45	37	42	36	35	38	37	53
289:	44	40	36	49	54	94	285	175
297:	57	45	49	68	34	38	33	40
305:	40	32	30	32	36	41	44	34
313:	31	38	44	29	39	35	43	32
321:	32	38	39	36	36	44	34	57
329:	45	49	30	37	36	38	30	39
337:	45	113	107	36	46	42	29	25
345:	32	40	33	40	58	51	180	432
353:	177	42	37	39	24	37	28	28
361:	19	29	23	29	23	24	24	28
369:	25	29	21	22	34	22	28	19
377:	21	27	28	23	21	21	24	23
385:	22	34	28	40	38	20	31	28
393:	31	27	30	22	28	15	21	27
401:	38	36	24	32	27	31	26	33
409:	45	41	21	24	20	27	21	29
417:	29	20	17	29	21	30	25	26
425:	29	25	21	24	27	25	29	28

433:	22	25	22	25	26	22	28	21
441:	20	25	20	26	20	25	18	21
449:	15	20	19	23	25	23	21	21
457:	25	21	17	29	25	26	46	27
465:	18	24	21	21	14	16	17	23
473:	18	19	14	20	19	22	28	19
481:	19	17	6	21	13	19	24	14
489:	20	15	13	20	15	16	18	13
497:	18	19	10	18	18	15	27	15
505:	31	15	15	21	31	68	74	47
513:	26	29	14	12	17	20	17	17
521:	15	17	15	13	17	18	16	16
529:	14	23	19	19	25	15	15	15
537:	20	12	14	11	11	21	18	18
545:	17	23	22	16	24	13	11	13
553:	14	15	22	16	10	11	16	7
561:	15	22	24	15	15	14	20	22
569:	17	14	20	10	16	15	14	18
577:	19	8	20	22	27	45	147	157
585:	41	20	19	16	17	12	12	16
593:	13	9	11	20	15	18	15	24
601:	18	20	17	10	10	24	33	52
609:	229	273	73	24	20	22	13	16
617:	14	17	17	9	12	16	15	16
625:	13	13	16	13	10	10	11	13
633:	11	13	18	12	9	13	15	14
641:	13	17	13	11	14	16	12	7
649:	11	7	9	11	10	8	12	9
657:	11	20	12	14	16	12	13	12
665:	16	24	17	10	14	11	16	17
673:	11	13	15	14	15	7	15	5
681:	9	7	19	10	14	12	17	16
689:	14	14	15	13	13	10	15	15
697:	15	17	7	11	13	21	17	8
705:	18	13	12	16	16	12	7	10
713:	17	9	15	16	9	9	12	10
721:	11	13	11	21	14	12	41	39
729:	24	14	17	11	11	16	10	10
737:	10	9	18	14	12	12	19	11
745:	13	11	10	8	7	15	11	13
753:	12	8	12	16	14	10	14	7
761:	11	10	14	14	8	20	12	32
769:	33	23	13	15	13	10	8	9
777:	11	16	6	9	12	9	7	8
785:	13	24	21	14	9	11	14	6
793:	6	18	27	29	13	7	9	8
801:	13	11	15	9	9	14	14	13
809:	8	6	10	12	10	8	11	9
817:	14	12	5	10	11	9	6	13
825:	7	9	10	15	11	9	12	10
833:	12	10	16	13	11	9	17	16
841:	9	6	9	9	9	11	7	7
849:	7	9	9	11	10	10	10	6
857:	5	10	10	14	27	13	3	10
865:	10	9	6	7	15	7	12	10
873:	3	7	7	7	16	8	8	10
881:	10	8	6	10	10	13	7	16
889:	12	7	8	12	5	8	11	7
897:	2	15	11	8	3	7	12	13
905:	13	9	10	7	10	27	71	94

913:	35	14	6	10	10	7	9	5
921:	12	5	5	8	7	9	6	8
929:	8	7	12	4	5	32	28	7
937:	9	5	10	5	10	8	8	7
945:	12	6	10	9	5	14	7	9
953:	11	7	12	5	11	3	8	13
961:	5	11	6	13	20	24	18	25
969:	58	56	17	9	6	5	6	10
977:	5	11	6	11	6	7	7	9
985:	3	5	7	5	7	4	7	5
993:	10	5	7	5	10	3	7	7
1001:	15	15	6	11	13	2	11	7
1009:	10	7	4	11	3	7	11	8
1017:	8	9	9	4	4	6	6	7
1025:	4	4	12	4	7	8	8	7
1033:	12	7	6	6	6	12	11	4
1041:	10	7	2	4	11	14	6	7
1049:	7	8	10	11	5	10	7	4
1057:	4	4	8	11	6	10	5	6
1065:	9	5	8	7	11	10	14	9
1073:	7	15	10	8	8	4	6	7
1081:	8	3	6	9	12	6	4	9
1089:	8	6	10	4	16	10	10	12
1097:	13	9	7	6	9	8	14	7
1105:	12	11	13	4	5	13	9	5
1113:	13	2	4	8	11	9	15	35
1121:	69	32	13	7	5	6	4	9
1129:	6	12	6	11	6	9	9	14
1137:	5	4	9	10	5	3	9	8
1145:	7	8	2	7	6	6	8	8
1153:	7	12	14	13	9	9	9	7
1161:	12	6	9	13	8	5	13	7
1169:	15	18	11	6	10	7	8	4
1177:	11	13	11	7	4	10	7	8
1185:	6	8	13	13	7	9	13	11
1193:	15	7	10	8	9	15	6	10
1201:	13	8	7	7	8	9	8	9
1209:	11	5	3	5	5	9	14	8
1217:	7	7	6	15	9	8	4	17
1225:	9	5	11	10	7	10	6	7
1233:	9	8	5	8	16	17	36	17
1241:	5	14	8	11	11	5	11	15
1249:	6	5	10	7	5	9	14	6
1257:	4	6	4	7	7	7	7	11
1265:	6	4	11	8	7	2	8	5
1273:	7	6	6	7	6	4	10	6
1281:	9	10	5	5	4	8	3	6
1289:	5	8	6	5	5	4	5	6
1297:	8	1	3	5	5	3	6	4
1305:	10	5	7	3	3	6	8	7
1313:	10	3	5	4	4	6	6	2
1321:	8	3	5	5	6	3	4	1
1329:	5	6	5	4	5	6	5	6
1337:	1	5	4	1	3	3	1	6
1345:	2	5	5	3	7	4	5	0
1353:	6	3	4	5	1	3	8	8
1361:	7	7	3	4	1	2	2	2
1369:	5	1	0	3	8	3	3	8
1377:	9	13	19	8	8	7	3	4
1385:	10	6	8	2	1	4	3	4

1393:	1	5	4	1	5	4	2	1
1401:	3	6	10	4	3	7	4	6
1409:	10	3	5	2	2	2	4	4
1417:	4	4	2	7	1	4	2	1
1425:	4	4	2	1	3	2	3	6
1433:	7	4	5	5	4	2	3	2
1441:	1	0	2	0	3	2	6	3
1449:	2	5	2	5	2	1	2	5
1457:	8	14	24	87	254	289	113	16
1465:	15	7	5	1	3	0	2	1
1473:	5	4	4	2	5	5	2	4
1481:	2	3	4	7	0	3	0	1
1489:	3	1	2	8	1	5	2	2
1497:	5	5	3	4	4	2	3	4
1505:	2	4	1	1	3	3	7	9
1513:	6	5	5	3	3	0	1	0
1521:	3	2	1	3	0	4	2	1
1529:	4	4	4	3	2	1	2	2
1537:	2	4	6	4	4	4	3	4
1545:	6	5	1	1	3	2	1	2
1553:	1	0	2	3	0	3	2	1
1561:	3	1	1	4	6	2	0	2
1569:	2	0	2	3	4	3	2	3
1577:	1	1	2	1	2	2	4	2
1585:	1	3	1	7	7	9	3	5
1593:	10	9	3	4	2	1	2	2
1601:	2	1	2	0	1	4	3	4
1609:	3	1	1	0	0	5	2	0
1617:	4	2	2	1	8	6	3	1
1625:	3	2	2	1	1	5	3	6
1633:	1	3	3	2	0	5	0	2
1641:	3	1	3	0	0	4	1	3
1649:	0	0	1	3	2	0	0	2
1657:	0	1	1	3	4	9	5	4
1665:	1	2	3	2	1	1	1	0
1673:	3	1	0	1	3	4	3	2
1681:	2	2	1	4	1	2	1	0
1689:	1	0	1	2	4	3	1	0
1697:	0	0	1	3	0	1	3	1
1705:	0	0	1	0	3	1	2	0
1713:	3	1	1	1	2	2	1	1
1721:	1	1	1	0	1	1	0	3
1729:	2	12	10	3	2	2	2	1
1737:	2	3	0	1	1	2	1	1
1745:	0	0	4	4	1	2	0	2
1753:	2	1	0	1	2	4	1	1
1761:	1	5	5	19	37	30	13	5
1769:	3	1	4	2	1	2	0	1
1777:	1	1	0	3	4	2	0	3
1785:	0	1	1	1	1	0	1	0
1793:	1	2	1	0	3	1	1	1
1801:	0	1	0	1	0	1	0	2
1809:	0	1	0	1	2	0	1	2
1817:	2	2	1	0	0	1	0	3
1825:	3	1	1	0	1	2	0	1
1833:	2	2	0	2	1	0	1	2
1841:	1	1	2	2	3	1	1	10
1849:	7	2	5	1	3	1	2	2
1857:	1	2	1	3	1	1	3	1
1865:	0	2	2	1	0	2	1	1

1873:	1	1	2	0	1	2	0	1
1881:	2	1	1	1	2	1	1	0
1889:	2	2	3	2	3	3	2	1
1897:	2	2	2	1	2	1	2	1
1905:	0	1	3	0	2	0	0	4
1913:	0	0	1	0	1	1	1	3
1921:	2	1	1	2	2	0	0	1
1929:	0	1	1	2	0	0	0	4
1937:	0	2	1	1	3	2	1	6
1945:	5	1	2	0	0	2	2	1
1953:	0	1	2	0	1	3	0	2
1961:	2	3	1	0	2	2	0	0
1969:	0	2	1	2	1	1	0	1
1977:	4	0	1	0	1	0	1	0
1985:	2	1	2	2	0	1	1	4
1993:	0	1	1	0	1	0	1	0
2001:	0	1	1	0	0	1	0	1
2009:	1	1	0	0	1	2	2	0
2017:	1	0	1	0	1	2	0	2
2025:	2	0	0	0	3	1	1	1
2033:	0	1	3	0	1	0	1	0
2041:	2	2	0	0	0	0	0	4
2049:	3	0	1	2	2	2	0	2
2057:	1	1	0	3	0	0	0	0
2065:	0	0	2	2	2	0	0	2
2073:	0	1	0	0	3	2	2	0
2081:	0	1	1	2	1	0	2	0
2089:	2	0	0	2	2	1	2	1
2097:	0	1	0	1	2	4	2	8
2105:	8	6	3	2	0	2	1	1
2113:	2	1	0	1	2	4	3	2
2121:	4	3	1	2	0	2	2	1
2129:	0	0	2	2	1	3	0	1
2137:	2	0	2	3	0	3	1	0
2145:	1	2	1	0	0	1	1	1
2153:	0	0	0	1	1	1	1	1
2161:	1	2	1	1	1	2	0	0
2169:	0	3	1	0	3	0	1	4
2177:	1	2	0	1	2	0	2	2
2185:	2	1	1	0	0	1	1	2
2193:	0	2	0	4	1	2	0	0
2201:	1	3	6	4	14	9	4	2
2209:	2	1	2	3	1	2	1	2
2217:	0	0	2	0	1	3	1	0
2225:	1	3	0	1	0	0	1	1
2233:	1	1	2	0	3	0	0	0
2241:	0	1	0	0	1	3	2	1
2249:	2	0	0	1	1	0	2	1
2257:	1	2	2	2	0	1	4	0
2265:	0	0	1	0	1	0	0	0
2273:	1	0	1	0	2	0	1	2
2281:	2	0	1	3	0	2	1	2
2289:	1	2	0	0	1	1	2	1
2297:	1	1	1	2	0	1	3	1
2305:	1	3	3	1	6	0	1	2
2313:	0	0	1	2	0	2	2	3
2321:	3	1	1	1	0	2	0	1
2329:	1	3	4	2	2	0	0	1
2337:	0	3	1	0	1	0	2	0
2345:	2	2	1	1	1	1	4	0

2353:	2	0	0	2	1	1	0	0
2361:	1	2	2	1	3	1	1	1
2369:	6	2	2	0	2	2	0	1
2377:	2	1	2	2	2	1	3	0
2385:	2	2	0	4	1	1	2	2
2393:	0	1	0	4	1	1	0	1
2401:	2	0	2	2	2	3	2	0
2409:	1	2	0	0	1	1	1	1
2417:	0	0	1	1	0	1	1	0
2425:	1	2	2	0	1	0	1	0
2433:	2	3	0	2	1	1	1	1
2441:	0	1	2	1	0	3	1	2
2449:	4	0	1	1	2	0	0	3
2457:	1	1	0	0	0	0	0	0
2465:	0	0	0	1	0	1	1	0
2473:	0	0	0	1	2	0	2	0
2481:	1	1	0	2	0	1	1	1
2489:	0	0	1	3	1	2	0	1
2497:	0	0	0	1	1	1	0	1
2505:	0	0	0	0	0	2	0	1
2513:	1	1	1	1	0	0	1	0
2521:	0	1	1	0	0	1	0	1
2529:	0	0	0	1	1	1	2	1
2537:	0	1	0	1	0	1	0	0
2545:	0	0	1	0	1	0	2	0
2553:	0	0	0	1	0	0	1	0
2561:	0	0	0	0	0	0	0	0
2569:	0	0	1	0	0	0	2	0
2577:	0	1	0	1	1	1	0	1
2585:	0	0	0	0	1	1	0	1
2593:	0	2	1	0	1	1	1	0
2601:	1	1	0	0	0	1	0	0
2609:	0	0	1	2	6	18	35	35
2617:	23	10	4	0	4	1	0	0
2625:	0	3	0	0	0	0	1	1
2633:	0	1	0	0	0	0	1	0
2641:	0	0	1	0	0	2	0	1
2649:	0	0	1	0	0	3	1	0
2657:	0	0	0	0	0	0	0	0
2665:	0	0	0	1	1	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	1	0	1	0	0	1	0	0
2689:	1	0	0	1	0	0	0	2
2697:	0	0	1	0	1	0	0	0
2705:	0	1	0	1	0	1	0	0
2713:	1	0	0	0	1	1	0	0
2721:	1	0	1	0	0	0	0	0
2729:	2	0	0	0	0	0	1	1
2737:	1	0	0	2	1	0	0	2
2745:	1	0	1	0	0	0	1	0
2753:	1	0	1	0	0	2	0	0
2761:	0	0	0	2	0	0	0	0
2769:	1	0	0	1	0	0	0	1
2777:	2	0	0	2	1	0	0	0
2785:	0	0	0	1	1	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	1	0	1	1
2809:	0	0	0	0	0	1	0	0
2817:	0	1	0	1	0	0	1	0
2825:	0	0	0	0	0	0	0	0

2833:	1	0	0	0	0	0	1	1
2841:	0	0	2	0	0	0	0	0
2849:	0	1	0	0	0	0	1	0
2857:	0	1	0	0	0	1	0	0
2865:	0	1	1	0	0	0	0	1
2873:	0	0	0	1	1	0	0	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	1	1	0	1	0
2897:	0	0	0	0	0	1	0	0
2905:	1	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	1	0	0	0	1	1	1	0
2929:	0	0	0	2	0	0	0	0
2937:	0	1	0	0	0	0	0	0
2945:	0	0	0	1	0	1	0	0
2953:	0	0	0	0	0	0	0	0
2961:	0	0	0	0	1	0	0	0
2969:	0	0	0	0	1	0	1	1
2977:	0	1	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	1
2993:	1	0	0	0	0	0	0	0
3001:	0	0	1	1	0	0	1	0
3009:	0	0	0	1	1	0	0	1
3017:	0	0	0	0	0	0	0	1
3025:	0	0	1	0	0	1	0	0
3033:	0	0	0	0	0	0	1	0
3041:	0	0	0	0	0	0	0	0
3049:	0	1	0	1	0	0	1	0
3057:	0	0	1	1	0	0	0	0
3065:	1	0	0	0	0	0	0	1
3073:	0	0	1	0	0	0	0	1
3081:	0	0	0	0	0	0	0	1
3089:	0	1	0	0	0	1	0	1
3097:	0	0	0	0	1	0	0	0
3105:	1	0	0	0	1	0	0	0
3113:	0	0	0	0	1	0	0	0
3121:	0	0	0	0	1	0	0	0
3129:	0	0	0	1	0	0	0	1
3137:	0	0	1	0	1	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	1	1	0	1	0	0	0	2
3177:	0	0	1	0	0	1	1	0
3185:	0	0	0	0	0	1	0	0
3193:	1	0	0	0	1	0	0	0
3201:	0	1	0	0	0	0	0	0
3209:	0	0	0	0	0	0	1	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	0	3	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	1	0	0	1	0	0	0
3249:	0	0	0	1	0	0	0	1
3257:	0	0	0	1	0	0	0	0
3265:	0	0	0	1	0	0	0	0
3273:	1	0	1	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	1	1	0	0	0	0	1	0
3305:	0	0	0	0	0	0	0	0

3313:	0	1	0	0	0	0	0	0
3321:	0	0	0	0	0	1	0	0
3329:	1	1	0	1	0	0	0	0
3337:	0	1	0	1	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	1	0	0	0	0	1
3361:	0	0	0	1	0	0	0	0
3369:	1	0	0	0	0	0	1	0
3377:	0	1	0	0	0	0	1	1
3385:	0	0	0	0	0	0	0	0
3393:	0	0	1	0	0	0	0	0
3401:	0	0	2	0	0	1	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	1	0	0	0
3425:	0	0	0	0	1	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	1	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	1	0	0	1	0	0	2
3473:	0	0	0	0	0	0	0	0
3481:	0	0	0	0	0	1	0	0
3489:	0	0	0	0	2	1	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	1	0	0
3513:	0	1	0	0	0	0	0	0
3521:	0	0	0	0	0	0	1	0
3529:	0	0	0	0	0	0	1	0
3537:	0	0	0	0	0	1	0	2
3545:	0	0	1	0	0	0	0	0
3553:	0	0	0	0	1	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	1
3577:	0	0	0	0	0	0	0	1
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	1	0	0
3601:	0	0	0	0	0	0	0	1
3609:	1	0	0	0	0	0	0	0
3617:	0	0	0	1	0	0	0	0
3625:	0	0	0	0	0	0	1	0
3633:	0	0	0	0	0	0	1	0
3641:	0	0	0	0	0	0	0	0
3649:	1	1	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	1	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	1	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	1	2	0	0
3713:	0	0	0	0	0	0	1	0
3721:	0	1	0	0	0	0	0	0
3729:	0	1	0	0	0	0	0	1
3737:	1	1	0	0	0	0	1	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	0	1	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	1	0	1	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	0	0	0	0	1
3801:	0	0	0	0	0	0	0	0
3809:	0	1	0	0	0	1	0	0
3817:	0	0	0	1	0	1	0	0
3825:	1	0	0	0	0	0	0	0
3833:	0	1	0	0	0	0	1	0
3841:	1	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	1
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	1	0	1
3873:	0	0	0	0	2	0	1	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	1	0	0	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	1	0
3937:	0	0	1	0	0	0	1	0
3945:	0	0	0	0	0	0	0	0
3953:	1	0	0	0	0	0	0	0
3961:	0	0	1	0	0	0	0	0
3969:	0	0	0	0	0	0	0	1
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	1
3993:	0	0	0	0	0	0	0	0
4001:	1	0	0	0	0	0	0	0
4009:	0	0	0	1	1	0	0	0
4017:	1	0	0	0	1	0	0	1
4025:	0	0	0	0	1	0	0	0
4033:	0	1	0	0	0	0	0	1
4041:	0	0	1	0	1	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	0	1	0	0	0	0	0
4081:	0	0	1	0	0	1	0	0
4089:	0	0	2	0	0	0	0	0

KM 7/9/10

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

VAX/VMS Peak Search Report Generated 9-JUL-2010 06:31:23.15

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606104_GE1_GAS1002_151289.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-1
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 05:31:03.
Sample ID : 1006061-04 Sample Quantity : 6.28310E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.77 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	37.32	82	643	3.66	36.74	34	9	112.9		PM-145
										PM-145
0	63.57*	169	1270	1.77	63.01	59	9	78.4		TH-234
0	76.19*	1344	1805	3.76	75.64	69	12	13.8		
6	88.22*	436	1393	3.62	87.68	81	20	35.3	6.47E+00	SN-126
										CD-109
6	92.81*	508	914	2.72	92.27	81	20	23.7		
0	186.26*	294	778	1.58	185.79	181	10	38.0		RA-226
1	239.22*	1051	397	2.38	238.78	233	12	8.9	3.02E+01	PB-212
1	242.40*	302	319	1.95	241.96	233	12	27.1		RA-224
0	269.89	77	362	3.39	269.48	267	8	88.7		
0	295.13*	352	543	1.83	294.74	290	10	27.0		PB-214
0	299.60	43	215	1.13	299.21	299	6	114.1		PB-212
0	329.41	94	265	1.51	329.04	325	9	65.8		
0	339.01	278	288	1.89	338.65	334	11	26.6		AC-228
1	349.13	84	164	2.45	348.78	345	14	63.4	1.26E+01	
1	352.35*	840	131	2.00	352.00	345	14	8.2		PB-214
1	355.57	96	143	2.45	355.22	345	14	67.7		
0	464.53*	68	148	1.82	464.26	460	9	69.6		
0	511.66*	97	181	2.81	511.43	506	11	60.9		
0	562.14	53	109	4.03	561.94	558	9	76.6		
0	583.44*	390	153	1.95	583.26	577	12	16.3		TL-208
0	609.77*	599	186	2.05	609.61	604	12	12.3		BI-214
0	634.90	27	51	1.63	634.76	632	6	93.1		
0	646.06	85	153	12.69	645.93	638	19	73.3		
0	727.55	100	94	1.78	727.47	723	9	40.3		BI-212
0	746.56	23	49	2.91	746.49	744	6	101.5		
0	767.41	98	135	1.91	767.37	762	11	50.2		
0	804.96	42	61	3.39	804.94	801	10	76.1		
0	861.09	53	73	1.38	861.11	856	9	64.8		TL-208
0	911.61*	190	134	2.11	911.67	906	12	28.6		AC-228
0	936.02	38	57	3.46	936.10	930	11	86.2		
1	964.89	74	44	2.71	964.99	960	19	39.3	3.01E+00	
1	969.65	178	36	2.72	969.75	960	19	20.0		AC-228
0	981.57	19	27	3.23	981.68	979	7	98.9		
0	1121.13	104	101	2.02	1121.34	1115	12	43.6		BI-214

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Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1150.75	16	33	2.06	1150.99	1148	5	117.2		
0	1226.00	27	61	5.65	1226.29	1220	9	115.6		
0	1238.01	49	100	2.19	1238.31	1233	11	83.4		
0	1306.68	12	18	1.14	1307.03	1303	6	121.8		
0	1348.13	15	14	2.53	1348.51	1345	7	98.8		
9	1377.59	30	26	4.26	1377.99	1374	17	71.2	3.26E+00	
9	1385.93	19	23	4.44	1386.34	1374	17	102.8		
1	1401.64	20	23	2.85	1402.05	1397	17	97.0	1.83E+00	
1	1408.41	20	31	2.85	1408.83	1397	17	103.8		
0	1461.07*	800	41	2.40	1461.53	1455	14	7.9		K-40
0	1509.57	27	19	2.42	1510.07	1506	9	68.7		
0	1594.19*	17	13	3.57	1594.75	1592	8	95.0		
0	1729.01	41	7	2.60	1729.67	1723	13	40.8		
0	1742.97	8	6	1.65	1743.64	1739	10	124.3		
0	1764.67*	95	30	2.65	1765.35	1758	15	32.6		BI-214
0	1783.79	12	3	1.05	1784.49	1777	13	85.7		
0	1838.80	13	6	3.25	1839.54	1833	12	93.6		
0	1847.96	13	2	3.74	1848.71	1845	8	65.7		
0	2104.49	23	2	1.94	2105.42	2101	9	48.3		
0	2158.58	9	0	2.91	2159.56	2156	7	66.7		
0	2204.38*	25	9	2.16	2205.39	2201	10	62.3		BI-214
0	2295.91	10	3	1.34	2296.98	2291	11	87.0		
0	2447.80	12	5	3.72	2448.99	2445	7	86.6		
0	2493.78	8	0	1.47	2495.00	2490	8	70.7		
0	2614.91*	118	7	2.92	2616.21	2609	13	20.9		TL-208

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

Total number of lines in spectrum	59	
Number of unidentified lines	27	
Number of lines tentatively identified by NID	32	54.24%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.776E+01	1.776E+01	0.243E+01	13.71	
TL-208	1.41E+10Y	1.00	1.247E+00	1.247E+00	0.190E+00	15.27	
BI-212	1.41E+10Y	1.00	1.185E+00	1.185E+00	0.497E+00	41.93	
PB-212	1.41E+10Y	1.00	1.366E+00	1.366E+00	0.193E+00	14.11	
BI-214	1602.00Y	1.00	1.538E+00	1.538E+00	0.217E+00	14.08	
PB-214	1602.00Y	1.00	1.598E+00	1.598E+00	0.200E+00	12.53	
RA-224	1.41E+10Y	1.00	4.520E+00	4.520E+00	1.325E+00	29.32	
RA-226	1602.00Y	1.00	4.565E+00	4.565E+00	8.540E+00	187.08	
AC-228	1.41E+10Y	1.00	1.529E+00	1.529E+00	0.237E+00	15.52	
TH-234	4.47E+09Y	1.00	1.990E+00	1.990E+00	1.580E+00	79.43	
			---	---			
	Total Activity :		3.729E+01	3.729E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	4.908E+00	5.189E+00	2.227E+00	42.92	
SN-126	1.00E+05Y	1.00	4.936E-01	4.936E-01	2.092E-01	42.39	
PM-145	17.70Y	1.00	2.425E-01	2.434E-01	3.186E-01	130.87	
			---	---			
	Total Activity :		5.644E+00	5.926E+00			

Grand Total Activity : 4.294E+01 4.322E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-04
Acquisition date : 9-JUL-2010 05:31:03

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	1.776E+01	1.776E+01	13.71	OK
	Final Mean for 1 Valid Peaks = 1.776E+01+/- 2.434E+00 (13.71%)						
TL-208	583.14	30.22*	1.026E+00	1.504E+00	1.504E+00	20.00	OK
	860.37	4.48	7.447E-01	1.893E+00	1.893E+00	65.49	OK
	2614.66	35.85	3.778E-01	1.042E+00	1.042E+00	24.08	OK
	Final Mean for 3 Valid Peaks = 1.247E+00+/- 1.905E-01 (15.27%)						
BI-212	727.17	11.80*	8.541E-01	1.185E+00	1.185E+00	41.93	OK
	1620.62	2.75	4.729E-01	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 1.185E+00+/- 4.969E-01 (41.93%)						
PB-212	238.63	44.60*	2.033E+00	1.385E+00	1.385E+00	14.18	OK
	300.09	3.41	1.740E+00	8.711E-01	8.711E-01	114.72	OK
	Final Mean for 2 Valid Peaks = 1.366E+00+/- 1.927E-01 (14.11%)						
BI-214	609.31	46.30*	9.893E-01	1.563E+00	1.563E+00	17.02	OK
	1120.29	15.10	6.070E-01	1.349E+00	1.349E+00	44.59	OK
	1764.49	15.80	4.502E-01	1.597E+00	1.597E+00	34.27	OK
	2204.22	4.98	4.030E-01	1.500E+00	1.500E+00	63.32	OK
	Final Mean for 4 Valid Peaks = 1.538E+00+/- 2.166E-01 (14.08%)						
PB-214	295.21	19.19	1.761E+00	1.246E+00	1.246E+00	29.48	OK
	351.92	37.19*	1.545E+00	1.747E+00	1.747E+00	13.67	OK
	Final Mean for 2 Valid Peaks = 1.598E+00+/- 2.003E-01 (12.53%)						
RA-224	240.98	3.95*	2.021E+00	4.520E+00	4.520E+00	29.32	OK
	Final Mean for 1 Valid Peaks = 4.520E+00+/- 1.325E+00 (29.32%)						
RA-226	186.21	3.28*	2.345E+00	4.565E+00	4.565E+00	187.08	OK
	Final Mean for 1 Valid Peaks = 4.565E+00+/- 8.540E+00 (187.08%)						
AC-228	338.32	11.40	1.592E+00	1.832E+00	1.832E+00	28.85	OK
	911.07	27.70*	7.115E-01	1.152E+00	1.152E+00	30.02	OK
	969.11	16.60	6.778E-01	1.886E+00	1.886E+00	22.01	OK
	Final Mean for 3 Valid Peaks = 1.529E+00+/- 2.373E-01 (15.52%)						
TH-234	63.29	3.80*	2.676E+00	1.990E+00	1.990E+00	79.43	OK
	Final Mean for 1 Valid Peaks = 1.990E+00+/- 1.580E+00 (79.43%)						

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	2.851E+00	4.908E+00	5.189E+00	42.92	OK
Final Mean for 1 Valid Peaks = 5.189E+00+/- 2.227E+00 (42.92%)							
SN-126	87.57	37.00*	2.851E+00	4.936E-01	4.936E-01	42.39	OK
Final Mean for 1 Valid Peaks = 4.936E-01+/- 2.092E-01 (42.39%)							
PM-145	36.85	21.70*	1.864E+00	2.425E-01	2.434E-01	130.87	OK
	37.36	39.70	1.890E+00	1.307E-01	1.313E-01	128.89	<<WM Interf
	42.30	15.10	2.114E+00	-----	Line Not Found	-----	Absent
	72.40	2.31	2.782E+00	-----	Line Not Found	-----	Absent
Final Mean for 1 Valid Peaks = 2.434E-01+/- 3.186E-01 (130.87%)							

Flag: "*" = Keyline

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	1.776E+01	2.434E+00	5.168E-01	5.412E-02	34.361
CD-109	5.189E+00	2.227E+00	1.477E+00	3.565E-01	3.513
SN-126	4.936E-01	2.092E-01	1.405E-01	3.256E-02	3.514
PM-145	2.434E-01	3.186E-01	2.871E-01	1.896E-01	0.848
TL-208	1.247E+00	1.905E-01	1.747E-01	1.898E-02	7.142
BI-212	1.185E+00	4.969E-01	5.407E-01	5.775E-02	2.192
PB-212	1.366E+00	1.927E-01	1.241E-01	1.279E-02	11.004
BI-214	1.538E+00	2.166E-01	1.392E-01	1.533E-02	11.046
PB-214	1.598E+00	2.003E-01	1.306E-01	1.334E-02	12.237
RA-224	4.520E+00	1.325E+00	1.411E+00	1.462E-01	3.204
RA-226	4.565E+00	8.540E+00	1.633E+00	2.991E+00	2.795
AC-228	1.529E+00	2.373E-01	2.521E-01	2.048E-02	6.065
TH-234	1.990E+00	1.580E+00	1.561E+00	1.843E-01	1.275

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-2.944E-01		5.193E-01	8.323E-01	8.368E-02	-0.354
NA-22	2.587E-03		4.545E-02	8.190E-02	7.782E-03	0.032
AL-26	1.365E-02		2.721E-02	5.615E-02	5.439E-03	0.243
TI-44	-4.125E-03		5.820E-02	6.841E-02	9.527E-03	-0.060
SC-46	-8.695E-03		5.176E-02	9.181E-02	7.592E-03	-0.095
V-48	-1.016E-02		2.119E-01	3.350E-01	2.757E-02	-0.030
CR-51	1.156E+00		8.841E-01	1.407E+00	1.578E-01	0.821
MN-54	-1.339E-02		4.269E-02	7.473E-02	6.902E-03	-0.179
CO-56	-6.151E-03		5.321E-02	9.453E-02	8.543E-03	-0.065
CO-57	-4.372E-02		4.154E-02	6.672E-02	6.421E-03	-0.655
CO-58	2.407E-02		5.093E-02	8.594E-02	8.279E-03	0.280
FE-59	-4.016E-02		1.330E-01	2.326E-01	2.092E-02	-0.173
CO-60	5.159E-03		4.843E-02	8.692E-02	7.138E-03	0.059
ZN-65	4.303E-02		1.027E-01	1.700E-01	1.406E-02	0.253
SE-75	-2.960E-02		7.562E-02	1.093E-01	1.207E-02	-0.271
RB-82	-1.606E-01		8.738E-01	1.359E+00	1.372E-01	-0.118
RB-83	3.555E-02		1.094E-01	1.670E-01	2.788E-02	0.213
KR-85	3.208E+01		1.115E+01	1.876E+01	1.946E+00	1.710
SR-85	2.075E-01		7.208E-02	1.214E-01	1.259E-02	1.710
Y-88	1.842E-02		3.587E-02	6.861E-02	6.593E-03	0.268
NB-93M	-3.410E+01		1.717E+01	2.262E+00	1.126E+00	-15.076
NB-94	-1.055E-02		3.831E-02	6.244E-02	5.375E-03	-0.169
NB-95	2.260E-01		9.917E-02	1.907E-01	1.954E-02	1.185
ZR-95	2.831E-02		1.210E-01	1.832E-01	2.031E-02	0.155
RU-103	5.896E-03		7.635E-02	1.277E-01	1.941E-02	0.046
RU-106	8.865E-02		3.812E-01	6.486E-01	9.768E-02	0.137
AG-108M	3.273E-02		4.470E-02	7.525E-02	8.071E-03	0.435
AG-110M	-2.302E-02		4.743E-02	7.172E-02	8.055E-03	-0.321
SN-113	6.786E-02		6.635E-02	1.155E-01	1.086E-02	0.588
TE123M	-5.649E-02		4.833E-02	7.695E-02	6.693E-03	-0.734

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SB-124	8.235E-03		6.487E-02	1.033E-01	1.135E-02	0.080
I-125	-9.394E-02		1.034E+00	1.563E+00	2.289E-01	-0.060
SB-125	-1.309E-01		1.172E-01	1.806E-01	1.753E-02	-0.725
SB-126	1.836E-01		5.762E-01	9.424E-01	1.013E-01	0.195
I-129	-6.341E-02		9.847E-02	1.443E-01	2.596E-02	-0.440
I-131	-2.464E-01		9.802E-01	1.530E+00	1.516E-01	-0.161
BA-133	1.263E-01	+	8.752E-02	1.314E-01	1.869E-02	0.961
CS-134	4.915E-02		4.631E-02	7.785E-02	8.568E-03	0.631
CS-135	2.216E-01		2.356E-01	3.632E-01	4.029E-02	0.610
CS-136	-1.111E-02		3.507E-01	6.298E-01	5.390E-02	-0.018
CS-137	-1.194E-02		5.075E-02	7.867E-02	8.857E-03	-0.152
LA-138	-8.827E-03		4.698E-02	8.512E-02	8.748E-03	-0.104
CE-139	5.439E-02		4.861E-02	8.308E-02	7.079E-03	0.655
BA-140	-5.105E-01		1.028E+00	1.631E+00	5.495E-01	-0.313
LA-140	2.997E-01		2.755E-01	5.382E-01	5.456E-02	0.557
CE-141	7.957E-02		1.550E-01	2.587E-01	7.024E-02	0.308
CE-144	-2.308E-01		3.321E-01	5.403E-01	5.039E-02	-0.427
PM-144	-7.925E-03		3.910E-02	6.983E-02	7.674E-03	-0.113
PM-146	-6.431E-03		8.422E-02	1.330E-01	1.307E-02	-0.048
ND-147	1.548E+00		2.775E+00	4.792E+00	5.036E-01	0.323
EU-152	3.183E-01	+	3.329E-01	5.451E-01	6.687E-02	0.584
GD-153	4.584E-02		1.759E-01	2.644E-01	4.552E-02	0.173
EU-154	6.591E-03		1.255E-01	2.260E-01	2.147E-02	0.029
EU-155	7.124E-01		2.094E-01	2.252E-01	5.104E-02	3.163
EU-156	9.450E-01		1.869E+00	3.146E+00	7.308E-01	0.300
HO-166M	-1.099E-02		6.756E-02	1.198E-01	1.298E-02	-0.092
HF-172	1.476E-02		3.023E-01	5.037E-01	4.794E-02	0.029
LU-172	3.265E-01		3.009E+00	5.467E+00	4.521E-01	0.060
LU-173	1.799E-01		1.888E-01	2.912E-01	3.261E-02	0.618
HF-175	7.440E-02		7.208E-02	9.304E-02	9.679E-03	0.800
LU-176	1.740E-02		3.675E-02	5.603E-02	6.195E-03	0.311
TA-182	7.321E-01	+	3.265E-01	4.473E-01	3.693E-02	1.637
IR-192	-4.087E-03		1.066E-01	1.577E-01	1.571E-02	-0.026
HG-203	3.967E-02		8.006E-02	1.220E-01	1.412E-02	0.325
BI-207	8.514E-03		3.929E-02	5.964E-02	6.430E-03	0.143
BI-210M	4.808E-02		7.914E-02	1.208E-01	1.319E-02	0.398
PB-210	-4.076E-01		1.039E+00	1.572E+00	1.817E-01	-0.259
PB-211	-6.427E-01		1.217E+00	1.961E+00	1.824E-01	-0.328
RN-219	-2.732E-02		5.312E-01	8.803E-01	8.160E-02	-0.031
RA-223	5.443E-01		9.043E-01	1.389E+00	1.498E-01	0.392
RA-225	2.314E-01		6.831E-01	1.166E+00	1.521E-01	0.198
TH-227	2.958E+00		5.186E-01	7.469E-01	7.645E-02	3.960
TH-230	-4.813E-01		1.485E+01	1.749E+01	2.419E+00	-0.028
PA-231	-1.618E-01		1.623E+00	2.385E+00	2.651E-01	-0.068
TH-231	-1.169E+01		2.727E+00	7.179E-01	1.593E-01	-16.279
PA-233	-1.578E-01		2.134E-01	3.368E-01	7.903E-02	-0.468
PA-234	1.999E-01		1.641E-01	2.797E-01	2.625E-02	0.715
PA-234M	1.294E+00		4.287E+00	7.993E+00	6.591E-01	0.162

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
U-235	3.270E-01		3.215E-01	5.402E-01	9.582E-02	0.605
NP-237	1.723E+00		5.063E-01	5.446E-01	1.234E-01	3.163
AM-241	1.562E-01		1.099E-01	1.708E-01	1.718E-02	0.915
AM-243	7.431E-01		1.585E-01	1.391E-01	2.372E-02	5.344
CM-243	7.479E-03		2.643E-01	3.915E-01	4.443E-02	0.019

Sample ID : 1006061-04 Acquisition date : 9-JUL-2010 05:31:03

Total number of lines in spectrum	59	
Number of unidentified lines	27	
Number of lines tentatively identified by NID	32	54.24%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.776E+01	1.776E+01	0.243E+01	13.71	
TL-208	1.41E+10Y	1.00	1.247E+00	1.247E+00	0.190E+00	15.27	
BI-212	1.41E+10Y	1.00	1.185E+00	1.185E+00	0.497E+00	41.93	
PB-212	1.41E+10Y	1.00	1.366E+00	1.366E+00	0.193E+00	14.11	
BI-214	1602.00Y	1.00	1.538E+00	1.538E+00	0.217E+00	14.08	
PB-214	1602.00Y	1.00	1.598E+00	1.598E+00	0.200E+00	12.53	
RA-224	1.41E+10Y	1.00	4.520E+00	4.520E+00	1.325E+00	29.32	
RA-226	1602.00Y	1.00	4.565E+00	4.565E+00	8.540E+00	187.08	
AC-228	1.41E+10Y	1.00	1.529E+00	1.529E+00	0.237E+00	15.52	
TH-234	4.47E+09Y	1.00	1.990E+00	1.990E+00	1.580E+00	79.43	
			---	---			
	Total Activity :		3.729E+01	3.729E+01			

Nuclide Type : FISSION

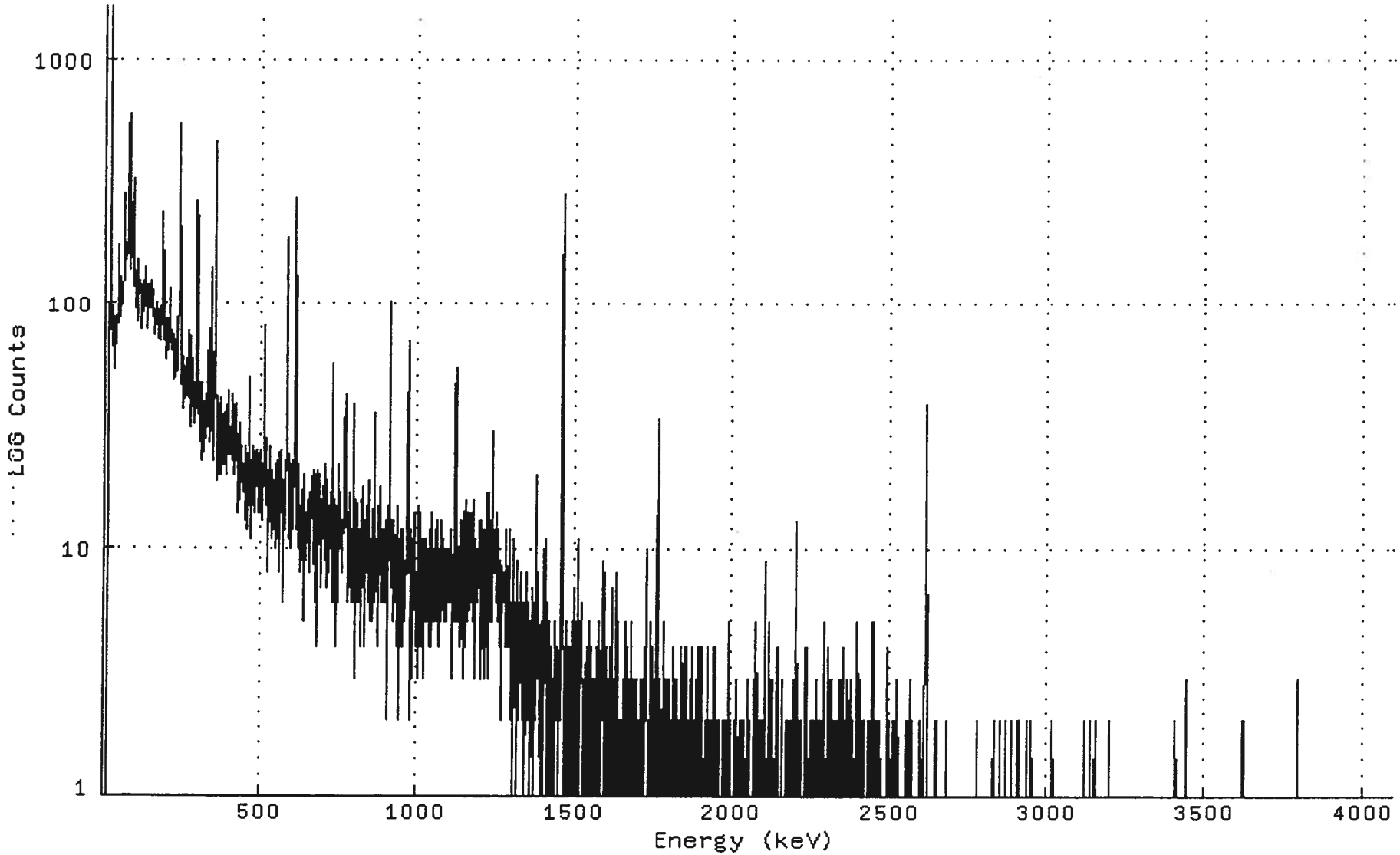
Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	4.908E+00	5.189E+00	2.227E+00	42.92	
SN-126	1.00E+05Y	1.00	4.936E-01	4.936E-01	2.092E-01	42.39	
PM-145	17.70Y	1.00	2.425E-01	2.434E-01	3.186E-01	130.87	
			---	---			
	Total Activity :		5.644E+00	5.926E+00			

Grand Total Activity : 4.294E+01 4.322E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606104_GE1_GAS1002_151289.CNF;1
Title :
Sample Title: S-1

Start Time: 9-JUL-2010 05:31:	Sample Time: 2-JUN-2010 00:00:	Energy Offset: 6.08450E-01
Real Time : 0 01:00:01.77	Sample ID : 1006061-04	Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00	Sample Type: SOIL	Energy Quad : 0.00000E+00



0105

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606104_GE1_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	100
17:	100	103	212	1615	164	76	84	96
25:	94	66	74	75	78	86	74	60
33:	56	54	81	88	85	87	79	86
41:	82	83	88	88	115	172	93	86
49:	97	102	102	129	118	98	112	115
57:	121	120	123	131	135	216	277	173
65:	164	174	154	162	155	150	161	186
73:	254	409	306	482	576	209	137	147
81:	138	138	172	169	152	224	255	179
89:	220	230	196	323	291	145	117	129
97:	110	130	136	100	95	119	83	124
105:	151	116	106	113	121	123	109	117
113:	121	98	103	116	105	77	120	99
121:	91	105	96	96	122	126	96	138
129:	140	109	107	109	119	79	105	77
137:	94	96	94	109	97	116	118	124
145:	102	98	97	97	96	91	113	100
153:	87	113	104	83	87	86	74	86
161:	89	80	84	100	100	87	91	92
169:	83	85	74	71	85	96	69	77
177:	87	78	78	84	81	89	102	101
185:	149	231	115	104	91	70	78	79
193:	59	74	73	75	78	84	82	80
201:	68	63	84	73	82	68	73	77
209:	115	91	65	63	74	75	75	67
217:	68	66	49	64	73	67	70	60
225:	68	58	66	50	54	53	64	65
233:	56	72	104	108	95	358	527	148
241:	145	202	98	47	57	59	60	42
249:	56	37	55	45	46	46	41	43
257:	55	48	59	52	43	42	49	57
265:	51	41	41	61	56	76	70	40
273:	46	49	48	31	50	59	50	41
281:	38	52	48	32	32	48	34	44
289:	46	37	49	62	58	84	256	198
297:	61	48	48	85	43	28	27	27
305:	33	48	38	48	34	29	34	44
313:	23	26	34	40	37	28	32	41
321:	43	43	34	28	32	31	39	64
329:	43	43	35	41	31	27	39	38
337:	43	141	106	43	38	30	38	23
345:	25	33	29	41	62	54	190	450
353:	173	41	64	28	20	21	19	28
361:	30	22	21	20	39	21	24	32
369:	25	29	41	25	34	20	26	35
377:	28	22	22	31	36	24	27	30
385:	27	22	23	20	29	33	29	34
393:	44	30	34	35	24	25	30	28
401:	29	27	31	24	29	23	31	23
409:	30	43	27	23	33	20	24	38
417:	39	26	23	31	23	25	29	25
425:	27	24	14	21	19	17	16	25

433:	32	24	26	20	23	19	22	19
441:	18	21	20	17	22	19	23	14
449:	13	24	26	16	23	23	15	12
457:	12	24	22	19	15	23	50	36
465:	23	17	21	16	11	23	16	19
473:	26	19	17	15	17	21	18	18
481:	20	14	24	25	18	21	22	22
489:	24	24	14	22	19	21	21	23
497:	25	18	14	21	23	18	19	17
505:	22	13	15	21	25	60	80	61
513:	34	23	20	15	16	17	18	21
521:	13	16	20	21	8	20	20	17
529:	15	26	20	20	16	15	11	21
537:	15	14	15	12	19	15	16	15
545:	20	22	20	14	13	10	13	17
553:	21	18	11	23	8	11	17	16
561:	18	24	25	15	21	15	14	18
569:	19	12	18	16	6	17	12	13
577:	12	18	23	21	21	42	182	144
585:	28	21	24	15	11	11	13	13
593:	16	18	21	10	16	22	12	17
601:	23	16	18	19	18	18	34	44
609:	269	255	67	19	17	22	14	12
617:	15	12	22	14	10	13	13	12
625:	11	14	8	15	12	15	14	9
633:	16	15	20	10	8	5	14	20
641:	14	13	9	9	12	14	13	11
649:	14	16	16	15	11	10	11	11
657:	8	17	9	19	16	14	17	16
665:	19	21	17	16	19	12	12	6
673:	13	20	10	16	13	21	4	8
681:	12	12	8	20	14	11	18	15
689:	15	7	10	13	16	14	10	18
697:	12	11	11	17	16	9	16	17
705:	22	13	13	13	15	7	14	19
713:	12	8	15	8	8	13	13	11
721:	12	10	12	17	12	23	37	57
729:	18	12	6	14	12	9	14	16
737:	8	9	4	14	14	15	6	6
745:	18	10	22	10	6	13	10	14
753:	14	10	17	15	8	13	11	13
761:	9	10	13	18	21	22	24	27
769:	43	28	13	14	16	16	9	14
777:	7	8	6	12	11	7	8	17
785:	12	13	11	8	6	10	6	8
793:	8	15	26	39	12	6	8	7
801:	3	8	16	16	15	11	11	9
809:	6	8	6	8	12	8	11	8
817:	5	4	11	5	8	8	16	7
825:	13	7	11	13	18	8	13	4
833:	11	11	9	14	11	15	12	14
841:	8	11	9	19	6	13	9	9
849:	11	5	6	11	9	12	9	11
857:	5	13	14	15	36	16	10	6
865:	7	7	11	11	7	11	11	4
873:	8	5	7	15	6	10	9	11
881:	10	18	9	8	8	9	12	6
889:	11	8	9	11	6	8	12	6
897:	9	12	11	13	10	11	2	13
905:	15	9	13	9	10	29	86	102

913:	34	10	9	7	13	8	10	11
921:	6	5	10	11	9	13	10	7
929:	7	8	6	9	5	12	15	15
937:	12	4	7	2	5	5	10	11
945:	4	8	12	7	7	10	9	8
953:	10	12	4	7	5	9	5	7
961:	8	6	10	18	34	20	11	29
969:	67	70	21	11	11	8	12	7
977:	8	2	5	6	11	6	11	4
985:	3	5	14	8	6	8	11	6
993:	5	5	8	4	8	8	5	15
1001:	10	15	6	3	11	10	7	14
1009:	4	10	10	8	11	10	10	11
1017:	4	11	8	8	3	7	4	9
1025:	11	7	6	6	5	9	5	10
1033:	8	7	8	10	9	12	10	6
1041:	4	13	7	8	4	14	4	7
1049:	5	9	10	7	6	9	5	11
1057:	8	12	9	7	5	13	10	6
1065:	10	10	4	9	8	4	9	8
1073:	9	5	8	9	13	7	11	6
1081:	6	9	6	5	10	8	7	7
1089:	5	5	7	8	5	10	9	7
1097:	7	7	10	7	7	6	11	7
1105:	8	12	9	6	7	6	9	7
1113:	3	7	13	5	7	14	10	42
1121:	55	23	11	13	6	5	9	6
1129:	8	5	8	8	13	12	9	4
1137:	8	7	11	13	6	8	10	6
1145:	3	6	12	4	12	13	16	4
1153:	7	10	11	13	7	5	13	7
1161:	14	5	6	14	8	9	7	8
1169:	10	14	6	8	9	10	10	8
1177:	12	8	16	5	10	7	10	11
1185:	3	10	8	9	8	10	8	6
1193:	10	7	10	8	7	13	9	6
1201:	7	8	13	9	3	5	8	8
1209:	10	12	4	9	10	3	12	11
1217:	8	10	15	6	9	17	4	12
1225:	17	7	13	3	5	6	9	10
1233:	5	12	10	17	5	23	30	20
1241:	9	9	9	12	9	8	8	12
1249:	9	9	6	9	14	8	12	7
1257:	5	9	7	7	4	8	6	8
1265:	9	8	7	5	2	7	7	6
1273:	7	6	8	6	8	8	8	8
1281:	8	12	6	4	7	5	7	5
1289:	4	6	12	6	5	9	8	4
1297:	6	6	3	2	5	4	3	4
1305:	6	6	11	0	5	5	4	6
1313:	3	6	5	4	9	1	4	4
1321:	2	6	3	3	2	5	4	6
1329:	4	8	4	4	2	4	6	2
1337:	4	6	4	6	2	6	3	0
1345:	3	3	3	5	5	8	2	3
1353:	4	2	5	6	3	4	2	5
1361:	5	0	2	4	4	3	7	2
1369:	3	0	6	6	4	2	5	6
1377:	2	13	20	5	3	4	3	3
1385:	7	8	8	3	4	3	2	4

1393:	2	1	5	2	2	3	4	1
1401:	3	10	7	2	2	4	5	11
1409:	11	9	4	3	3	5	6	1
1417:	2	3	1	1	5	4	3	4
1425:	4	1	2	3	3	3	3	0
1433:	2	3	2	3	1	3	5	3
1441:	3	4	2	3	3	2	4	1
1449:	1	3	1	2	3	5	2	6
1457:	8	12	30	96	265	277	99	30
1465:	14	5	3	1	4	2	0	3
1473:	5	1	1	4	2	3	3	1
1481:	2	2	2	4	2	4	1	2
1489:	0	1	0	3	5	3	2	2
1497:	7	1	3	2	2	7	1	5
1505:	0	2	4	3	8	11	7	5
1513:	5	1	5	2	4	5	1	4
1521:	3	4	6	3	3	4	2	2
1529:	1	2	2	3	2	1	3	3
1537:	3	3	4	1	3	1	2	3
1545:	4	2	0	1	2	3	5	1
1553:	1	3	4	2	4	2	1	1
1561:	1	0	3	2	3	1	1	1
1569:	1	3	3	0	4	1	0	1
1577:	3	2	3	2	5	3	2	3
1585:	2	3	1	9	5	4	4	2
1593:	8	8	5	5	2	1	2	0
1601:	3	4	2	1	1	1	0	3
1609:	3	2	2	1	1	4	1	2
1617:	1	0	3	4	7	1	2	1
1625:	2	2	2	3	2	2	8	7
1633:	1	2	3	1	2	5	5	4
1641:	3	2	2	1	2	2	1	2
1649:	1	0	1	2	1	2	0	2
1657:	0	1	3	3	1	5	4	2
1665:	0	4	1	4	1	2	2	0
1673:	1	2	1	1	3	1	1	2
1681:	5	2	1	1	1	1	2	0
1689:	3	2	2	2	2	2	3	1
1697:	1	0	2	1	0	3	0	2
1705:	2	2	2	1	1	1	0	3
1713:	2	0	1	2	2	3	3	1
1721:	4	0	1	2	3	2	2	5
1729:	4	8	10	5	4	1	0	1
1737:	2	0	0	1	2	0	5	4
1745:	0	1	1	0	2	0	4	2
1753:	0	1	1	1	3	1	3	3
1761:	2	5	12	16	34	26	16	1
1769:	4	1	2	1	3	0	2	1
1777:	0	1	0	1	0	5	1	2
1785:	1	2	1	1	0	0	1	3
1793:	0	2	1	3	1	1	1	2
1801:	3	0	1	1	2	2	1	2
1809:	1	2	1	4	2	0	2	1
1817:	2	1	0	2	1	2	3	0
1825:	0	1	2	3	0	3	1	0
1833:	1	2	1	0	1	2	2	4
1841:	2	3	1	0	1	1	2	3
1849:	4	2	2	0	0	1	0	3
1857:	4	0	2	1	0	2	1	1
1865:	1	2	0	1	1	2	0	3

1873:	1	4	3	1	1	2	2	1
1881:	1	1	0	2	1	2	1	0
1889:	3	0	4	1	2	2	0	1
1897:	2	4	3	1	0	1	1	0
1905:	1	4	1	1	1	1	1	0
1913:	1	1	0	2	1	0	2	1
1921:	1	4	2	1	1	0	1	2
1929:	2	2	1	0	0	1	1	2
1937:	1	0	1	1	3	2	3	4
1945:	0	2	3	2	1	1	4	0
1953:	1	1	2	0	1	1	0	2
1961:	0	1	0	1	0	1	0	0
1969:	1	0	2	2	1	0	0	1
1977:	1	1	2	1	0	1	0	0
1985:	1	1	2	2	1	5	0	1
1993:	2	1	0	2	0	0	0	0
2001:	1	0	0	1	0	0	0	1
2009:	0	0	2	1	0	0	2	0
2017:	1	3	0	1	1	0	0	0
2025:	0	0	1	2	0	1	1	1
2033:	1	0	0	2	0	0	1	0
2041:	0	2	1	0	1	1	0	0
2049:	2	3	2	1	3	2	1	2
2057:	0	1	0	0	0	1	1	1
2065:	0	1	0	3	1	3	1	0
2073:	2	1	0	0	1	5	2	1
2081:	0	3	0	1	1	1	0	2
2089:	0	1	1	1	1	0	2	1
2097:	1	0	0	0	0	2	2	2
2105:	4	9	5	1	0	1	0	1
2113:	1	1	0	2	3	1	5	3
2121:	1	1	2	0	2	1	3	3
2129:	0	1	1	0	1	1	1	0
2137:	0	0	0	2	0	1	1	1
2145:	4	1	1	1	4	2	1	1
2153:	1	0	0	0	1	1	2	2
2161:	3	0	0	0	0	0	1	0
2169:	1	0	1	1	1	1	2	0
2177:	0	2	2	1	1	0	0	2
2185:	1	1	0	1	1	1	2	1
2193:	1	1	2	1	1	0	0	3
2201:	0	1	3	9	13	6	2	1
2209:	1	0	1	0	2	0	0	0
2217:	2	1	0	0	0	2	0	1
2225:	0	1	1	0	1	1	0	1
2233:	1	2	0	4	1	1	0	0
2241:	4	2	0	1	1	1	1	0
2249:	1	2	1	0	2	2	2	2
2257:	1	0	0	0	1	1	2	2
2265:	1	0	2	1	1	0	3	2
2273:	2	2	1	2	2	0	2	0
2281:	1	0	0	0	2	1	1	0
2289:	2	1	0	0	0	2	5	1
2297:	2	1	1	1	0	0	1	0
2305:	1	2	2	1	4	1	3	1
2313:	0	1	2	3	1	0	2	0
2321:	3	1	1	1	2	2	2	1
2329:	0	2	1	1	1	1	0	1
2337:	2	1	2	0	1	2	2	0
2345:	3	1	2	1	0	3	2	2

2353:	1	0	2	2	4	0	2	0
2361:	0	1	0	0	0	0	1	0
2369:	1	3	2	1	0	2	0	0
2377:	0	3	0	1	1	1	0	1
2385:	1	2	2	2	1	0	1	0
2393:	1	1	2	2	2	1	0	5
2401:	2	2	0	2	0	0	1	0
2409:	3	2	0	0	2	0	0	1
2417:	1	1	0	2	1	0	1	0
2425:	1	0	0	1	1	1	1	2
2433:	0	0	0	1	0	1	0	1
2441:	1	2	0	2	0	1	4	5
2449:	2	5	0	1	1	2	1	2
2457:	2	0	0	1	2	0	0	2
2465:	1	1	1	2	0	0	2	0
2473:	2	0	0	0	0	0	0	1
2481:	0	1	0	1	1	0	0	0
2489:	0	0	0	1	0	1	2	4
2497:	0	0	0	1	1	1	2	0
2505:	0	1	0	0	0	2	0	0
2513:	2	1	1	1	0	0	0	0
2521:	2	0	1	0	1	1	3	0
2529:	0	0	0	0	1	0	1	0
2537:	0	1	0	0	0	0	0	0
2545:	0	1	0	0	1	0	0	1
2553:	0	0	0	0	2	0	0	0
2561:	0	2	1	0	0	0	0	0
2569:	3	1	0	0	0	2	1	0
2577:	1	1	0	0	0	0	0	0
2585:	0	1	0	0	1	0	0	0
2593:	1	0	1	0	2	0	0	2
2601:	0	0	0	0	0	0	0	2
2609:	0	1	2	2	4	6	30	39
2617:	28	11	4	4	0	0	1	1
2625:	0	1	0	0	0	0	0	0
2633:	1	0	0	0	0	0	0	0
2641:	1	0	0	0	1	2	0	1
2649:	1	0	0	2	1	1	0	0
2657:	0	0	1	0	1	0	0	0
2665:	0	1	0	0	0	1	0	1
2673:	0	0	0	0	0	1	0	1
2681:	0	0	2	0	1	1	0	0
2689:	0	0	0	1	0	0	0	1
2697:	1	0	0	0	0	0	0	0
2705:	0	0	0	0	1	1	0	0
2713:	0	1	1	0	0	0	0	0
2721:	0	0	0	0	0	0	0	0
2729:	0	1	0	1	0	0	0	0
2737:	1	0	0	0	0	1	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	1	0	0	1	0	1	1	1
2769:	0	0	0	1	0	0	0	0
2777:	0	2	1	0	0	0	0	0
2785:	0	0	1	0	1	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	0	0	0	0	1
2809:	0	0	1	0	1	1	0	0
2817:	0	1	0	0	0	0	0	0
2825:	1	0	0	0	0	1	0	2

2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	1	1	0	0	0
2849:	0	1	0	1	2	0	0	0
2857:	1	0	0	0	1	0	0	0
2865:	0	0	0	1	1	2	0	0
2873:	0	0	0	1	0	0	0	0
2881:	1	0	0	0	0	0	2	0
2889:	1	0	0	0	0	1	1	0
2897:	1	1	1	0	0	0	0	0
2905:	0	0	0	0	2	1	2	1
2913:	1	0	0	0	0	1	0	0
2921:	0	0	1	0	0	0	0	0
2929:	0	0	0	0	0	1	0	1
2937:	0	2	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	2
2953:	0	1	0	1	1	0	0	0
2961:	1	1	0	0	0	0	0	0
2969:	0	0	0	0	0	0	1	0
2977:	0	0	0	1	0	0	1	1
2985:	0	0	0	0	1	0	0	0
2993:	0	0	0	0	0	0	1	0
3001:	1	1	1	0	0	0	0	1
3009:	0	0	0	0	1	0	0	0
3017:	0	0	2	0	0	0	0	1
3025:	0	0	0	0	0	0	1	0
3033:	0	0	0	0	0	0	0	1
3041:	1	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	1	0	0	0	0	0
3065:	0	1	0	0	0	0	0	0
3073:	0	0	0	0	0	1	0	0
3081:	1	1	0	0	0	0	1	0
3089:	0	0	0	0	0	0	0	0
3097:	0	1	0	0	0	0	0	0
3105:	0	1	0	0	0	0	0	1
3113:	0	0	0	1	0	0	0	0
3121:	2	0	0	0	0	0	0	0
3129:	0	0	0	0	1	0	0	0
3137:	2	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	2	1	0	0	0	0	0	1
3161:	0	1	0	0	0	1	0	0
3169:	1	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	1	0	0	1
3193:	0	0	0	1	0	1	0	2
3201:	0	0	0	0	1	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	1	0	0	0	0	0	0
3241:	0	0	1	0	0	1	0	0
3249:	0	0	0	1	0	1	0	0
3257:	0	0	0	0	0	1	0	0
3265:	0	0	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	1	0	0	1
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	1	0	1	0	0
3321:	0	0	0	0	0	1	0	0
3329:	0	0	0	0	0	1	1	0
3337:	0	0	0	0	0	0	0	1
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	1	0	0	1	0	1
3377:	0	0	1	0	1	0	0	0
3385:	0	1	0	0	0	0	0	0
3393:	0	0	0	0	0	0	0	1
3401:	1	0	0	0	0	0	2	0
3409:	0	0	1	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	1	0
3433:	0	0	0	0	0	0	0	0
3441:	0	3	1	0	0	0	0	0
3449:	0	0	0	0	1	0	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	0	0	0	1	0
3473:	0	1	0	0	1	0	0	0
3481:	0	0	0	0	0	1	0	0
3489:	0	1	0	0	0	0	0	0
3497:	0	0	0	0	0	0	1	0
3505:	0	0	0	0	0	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	1	0	0	0	1	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	1	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	1
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	2	0	0	0	0	0	1	2
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	1
3641:	0	0	0	0	0	0	1	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	1	0	0	0	0
3665:	0	0	0	1	0	0	0	0
3673:	1	1	0	0	0	0	0	0
3681:	1	0	0	0	0	0	0	1
3689:	0	0	0	0	0	0	0	0
3697:	1	0	0	0	1	0	0	0
3705:	0	0	0	0	0	0	1	1
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	1	1	0	0	1	0	0	0
3737:	1	0	1	0	0	0	0	0
3745:	0	0	0	0	1	0	0	1
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	1	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0

3793:	0	3	0	0	0	0	0	1
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	0	0	0	0
3825:	0	0	0	0	0	1	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	1
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	1	1	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	1	0	0	0	0	0
3881:	0	0	0	0	0	0	0	1
3889:	1	0	0	0	0	0	0	0
3897:	0	0	0	0	0	1	0	0
3905:	0	0	0	1	1	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	1	1	1
3929:	1	0	0	0	1	0	0	1
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	1	0	0	1	0
3953:	0	0	0	1	0	0	0	0
3961:	0	1	0	1	0	0	0	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	0	0	1	0	0	0
3985:	0	0	0	0	1	0	0	0
3993:	0	0	0	1	0	0	0	0
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	0	1	0
4017:	1	0	0	0	0	0	0	1
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	1	0
4041:	0	0	0	0	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	0	0	0	1	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	1	0	0
4089:	0	0	1	0	0	1	1	0

ICM 7-9-10

Sample ID : 1006061-05 Acquisition date : 9-JUL-2010 04:29:43

VAX/VMS Peak Search Report Generated 9-JUL-2010 05:30:03.77

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606105_GE4_GAS1002_151284.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-2
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 04:29:43.
Sample ID : 1006061-05 Sample Quantity : 1.70810E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:00.83 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	76.10*	97	210	4.15	76.08	71	10	60.4		AM-243
0	186.52*	58	80	1.44	186.46	182	9	65.2		RA-226
0	239.75*	97	66	2.45	239.66	235	11	38.7		PB-212
										RA-224
0	296.16*	46	61	1.86	296.05	291	9	68.5		PB-214
0	352.20*	52	34	2.98	352.07	348	8	48.9		PB-214
1	514.42	20	17	2.41	514.22	506	12	103.7	1.29E+00	KR-85
										SR-85
3	556.95	10	5	2.94	556.73	555	13	74.2	2.31E+00	
3	561.94	19	14	2.85	561.72	555	13	85.9		
3	600.34	13	30	2.96	600.11	597	18	135.3	4.72E+00	
3	609.98*	42	32	2.97	609.74	597	18	60.4		
0	643.56	31	39	21.15	643.31	629	26	116.0		
1	734.31	10	16	2.51	734.03	727	23	127.7	1.46E+00	
1	740.52	11	12	2.51	740.23	727	23	121.0		
1	745.41	15	8	2.51	745.12	727	23	97.6		
0	794.98	19	10	2.59	794.66	789	13	82.8		
0	850.82	11	2	2.97	850.48	847	7	70.4		
0	912.21	11	9	3.21	911.85	906	12	129.0		
0	989.27	8	2	2.91	988.88	985	7	87.1		
0	1014.81	17	3	2.05	1014.41	1009	11	60.1		
0	1068.68*	5	0	2.22	1068.25	1064	8	121.0		
0	1112.56	9	6	3.63	1112.11	1109	6	108.9		
0	1240.04	13	0	4.38	1239.54	1236	8	55.5		
0	1461.97*	12	0	2.58	1461.38	1458	8	62.1		K-40

AG
7/12/10

Summary of Nuclide Activity
Sample ID : 1006061-05

Acquisition date : 9-JUL-2010 04:29:43

Total number of lines in spectrum	23	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	15	65.22%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.933E+00	2.933E+00	1.849E+00	63.02	
PB-212	1.41E+10Y	1.00	9.986E-01	9.986E-01	4.088E-01	40.94	
PB-214	1602.00Y	1.00	1.013E+00	1.013E+00	0.425E+00	41.94	
RA-224	1.41E+10Y	1.00	1.137E+01	1.137E+01	0.466E+01	40.98	
RA-226	1602.00Y	1.00	6.647E+00	6.647E+00	12.93E+00	194.50	
			---	---			
	Total Activity :		2.296E+01	2.296E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
KR-85	10.72Y	1.01	4.449E+01	4.478E+01	4.688E+01	104.69	
SR-85	64.84D	1.49	1.945E-01	2.895E-01	3.031E-01	104.69	
			---	---			
	Total Activity :		4.468E+01	4.507E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	4.024E-01	4.024E-01	2.460E-01	61.14	
			---	---			
	Total Activity :		4.024E-01	4.024E-01			

Grand Total Activity :	6.805E+01	6.844E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-05
Acquisition date : 9-JUL-2010 04:29:43

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	2.933E+00	2.933E+00	63.02	OK
Final Mean for 1 Valid Peaks = 2.933E+00+/- 1.849E+00 (63.02%)							
PB-212	238.63	44.60*	9.611E-01	9.986E-01	9.986E-01	40.94	OK
	300.09	3.41	7.792E-01	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 9.986E-01+/- 4.088E-01 (40.94%)							
PB-214	295.21	19.19	7.915E-01	1.337E+00	1.337E+00	70.29	OK
	351.92	37.19*	6.661E-01	9.294E-01	9.294E-01	51.22	OK
Final Mean for 2 Valid Peaks = 1.013E+00+/- 4.247E-01 (41.94%)							
RA-224	240.98	3.95*	9.529E-01	1.137E+01	1.137E+01	40.98	OK
Final Mean for 1 Valid Peaks = 1.137E+01+/- 4.660E+00 (40.98%)							
RA-226	186.21	3.28*	1.172E+00	6.647E+00	6.647E+00	194.50	OK
Final Mean for 1 Valid Peaks = 6.647E+00+/- 1.293E+01 (194.50%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
KR-85	513.99	0.43*	4.496E-01	4.449E+01	4.478E+01	104.69	OK
Final Mean for 1 Valid Peaks = 4.478E+01+/- 4.688E+01 (104.69%)							
SR-85	513.99	99.27*	4.496E-01	1.945E-01	2.895E-01	104.69	OK
Final Mean for 1 Valid Peaks = 2.895E-01+/- 3.031E-01 (104.69%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
AM-243	74.67	66.00*	1.609E+00	4.024E-01	4.024E-01	61.14	OK
Final Mean for 1 Valid Peaks = 4.024E-01+/- 2.460E-01 (61.14%)							

Flag: "*" = Keyline

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	2.933E+00	1.849E+00	2.066E+00	2.044E-01	1.420
KR-85	4.478E+01	4.688E+01	5.293E+01	7.389E+00	0.846
SR-85	2.895E-01	3.031E-01	3.422E-01	4.777E-02	0.846
PB-212	9.986E-01	4.088E-01	3.850E-01	4.873E-02	2.594
PB-214	1.013E+00	4.247E-01	6.036E-01	8.812E-02	1.678
RA-224	1.137E+01	4.660E+00	4.386E+00	5.613E-01	2.593
RA-226	6.647E+00	1.293E+01	4.569E+00	8.370E+00	1.455
AM-243	4.024E-01	2.460E-01	2.356E-01	1.978E-02	1.708

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-5.941E-01		2.326E+00	3.996E+00	5.605E-01	-0.149
NA-22	1.745E-02		1.980E-01	4.045E-01	3.825E-02	0.043
AL-26	8.322E-04		8.416E-02	2.220E-01	2.016E-02	0.004
TI-44	-1.693E-01		1.217E-01	1.701E-01	1.339E-02	-0.995
SC-46	-1.021E-01		2.561E-01	4.690E-01	4.568E-02	-0.218
V-48	-1.255E-01		8.327E-01	1.439E+00	1.384E-01	-0.087
CR-51	-2.409E+00		2.698E+00	4.257E+00	6.533E-01	-0.566
MN-54	1.022E-01		1.695E-01	3.514E-01	3.710E-02	0.291
CO-56	1.944E-01		2.180E-01	4.532E-01	4.711E-02	0.429
CO-57	-1.181E-02		9.721E-02	1.696E-01	1.749E-02	-0.070
CO-58	-1.262E-01		2.655E-01	4.400E-01	4.784E-02	-0.287
FE-59	-2.043E-01		4.619E-01	8.621E-01	8.641E-02	-0.237
CO-60	4.532E-02		2.138E-01	4.344E-01	3.939E-02	0.104
ZN-65	8.547E-02		5.363E-01	9.539E-01	8.896E-02	0.090
SE-75	-1.082E-01		2.234E-01	3.746E-01	5.364E-02	-0.289
RB-82	7.125E-01		3.839E+00	7.158E+00	8.029E-01	0.100
RB-83	-2.094E-01		4.097E-01	5.867E-01	1.120E-01	-0.357
Y-88	-3.401E-02		2.302E-01	4.672E-01	4.202E-02	-0.073
NB-93M	1.665E+01		9.862E+00	1.227E+01	5.706E+00	1.357
NB-94	2.756E-02		1.821E-01	3.425E-01	3.436E-02	0.080
NB-95	-8.502E-03		3.480E-01	6.335E-01	7.172E-02	-0.013
ZR-95	2.281E-01		5.015E-01	9.651E-01	1.164E-01	0.236
RU-103	-9.160E-02		3.027E-01	5.192E-01	9.326E-02	-0.176
RU-106	-3.283E-01		1.555E+00	2.736E+00	4.461E-01	-0.120
AG-108M	1.618E-02		2.013E-01	3.323E-01	3.863E-02	0.049
CD-109	-3.074E+00		2.835E+00	4.601E+00	5.205E-01	-0.668
AG-110M	-9.234E-02		2.097E-01	3.041E-01	3.634E-02	-0.304
SN-113	-1.792E-01		2.511E-01	4.059E-01	5.563E-02	-0.442
TE123M	4.520E-02		1.248E-01	2.248E-01	2.040E-02	0.201
SB-124	1.595E-01		2.884E-01	5.435E-01	7.094E-02	0.294
I-125	5.258E-01		3.041E+00	5.431E+00	6.001E-01	0.097
SB-125	-1.517E-01		3.826E-01	6.529E-01	9.112E-02	-0.232
SB-126	-7.990E-01		2.443E+00	3.962E+00	4.612E-01	-0.202
SN-126	-1.720E-01		2.637E-01	4.415E-01	4.236E-02	-0.390
I-129	-2.959E-01		3.025E-01	4.985E-01	6.968E-02	-0.594

Sample ID : 1006061-05 Acquisition date : 9-JUL-2010 04:29:43

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
I-131	2.424E+00		3.669E+00	6.939E+00	9.937E-01	0.349
BA-133	-1.510E-02		2.509E-01	3.902E-01	6.877E-02	-0.039
CS-134	-1.873E-02		1.784E-01	3.140E-01	4.092E-02	-0.060
CS-135	1.529E-01		6.702E-01	1.203E+00	1.747E-01	0.127
CS-136	-2.438E-01		1.058E+00	2.140E+00	2.090E-01	-0.114
CS-137	9.330E-02		1.651E-01	3.322E-01	3.943E-02	0.281
LA-138	1.236E-02		2.403E-01	5.140E-01	4.978E-02	0.024
CE-139	-2.765E-03		1.324E-01	2.317E-01	2.039E-02	-0.012
BA-140	1.397E+00		4.311E+00	8.053E+00	2.807E+00	0.174
LA-140	-9.110E-01		1.439E+00	2.492E+00	2.382E-01	-0.366
CE-141	2.783E-01		3.845E-01	6.955E-01	1.900E-01	0.400
CE-144	5.834E-01		7.851E-01	1.450E+00	1.443E-01	0.402
PM-144	-9.000E-03		2.147E-01	3.790E-01	4.461E-02	-0.024
PM-145	1.006E-01		5.668E-01	1.006E+00	6.579E-01	0.100
PM-146	-1.494E-01		3.392E-01	5.701E-01	7.971E-02	-0.262
ND-147	-4.361E+00		1.090E+01	1.849E+01	2.563E+00	-0.236
EU-152	6.785E-02		1.151E+00	2.420E+00	2.849E-01	0.028
GD-153	8.525E-02		3.476E-01	6.250E-01	6.144E-02	0.136
EU-154	4.818E-02		5.468E-01	1.117E+00	1.056E-01	0.043
EU-155	-5.677E-02		3.150E-01	5.418E-01	5.139E-02	-0.105
EU-156	-5.531E+00		1.024E+01	1.658E+01	3.942E+00	-0.334
HO-166M	2.081E-02		2.776E-01	5.173E-01	6.045E-02	0.040
HF-172	2.453E-01		7.098E-01	1.277E+00	1.301E-01	0.192
LU-172	2.808E+00		1.084E+01	2.369E+01	2.225E+00	0.119
LU-173	2.141E-01		5.290E-01	9.648E-01	1.425E-01	0.222
HF-175	-9.616E-02		2.605E-01	3.874E-01	5.717E-02	-0.248
LU-176	5.443E-02		1.244E-01	2.274E-01	3.454E-02	0.239
TA-182	4.614E-01		7.575E-01	1.554E+00	1.445E-01	0.297
IR-192	9.066E-02		4.117E-01	7.533E-01	1.056E-01	0.120
HG-203	4.227E-02		2.399E-01	4.300E-01	6.618E-02	0.098
BI-207	5.662E-03		1.657E-01	2.781E-01	3.758E-02	0.020
TL-208	2.913E-01		5.557E-01	1.064E+00	1.420E-01	0.274
BI-210M	-3.999E-02		2.261E-01	3.923E-01	5.537E-02	-0.102
PB-210	1.762E+00		2.708E+00	5.029E+00	4.275E-01	0.350
PB-211	3.956E-01		4.393E+00	7.894E+00	1.079E+00	0.050
BI-212	-3.300E-01		1.649E+00	2.535E+00	2.941E-01	-0.130
BI-214	1.072E+00	+	6.634E-01	1.091E+00	1.412E-01	0.982
RN-219	-1.259E+00		1.994E+00	3.262E+00	4.449E-01	-0.386
RA-223	1.154E+00		2.810E+00	5.195E+00	7.813E-01	0.222
RA-225	-7.539E-01		2.112E+00	3.647E+00	3.537E-01	-0.207
TH-227	1.175E+00		1.047E+00	1.809E+00	2.262E-01	0.650
AC-228	6.730E-01	+	8.713E-01	1.287E+00	1.236E-01	0.523
TH-230	-3.595E+01		3.069E+01	4.374E+01	3.437E+00	-0.822
PA-231	-4.717E-01		5.808E+00	9.018E+00	1.372E+00	-0.052
TH-231	-9.763E-01		1.608E+00	2.717E+00	4.845E-01	-0.359
PA-233	-7.700E-01		7.537E-01	1.137E+00	2.921E-01	-0.677
PA-234	9.271E-02		3.898E-01	6.957E-01	6.972E-02	0.133
PA-234M	3.323E+01		2.220E+01	5.126E+01	4.919E+00	0.648

Sample ID : 1006061-05 Acquisition date : 9-JUL-2010 04:29:43

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TH-234	1.663E+00		2.664E+00	4.968E+00	3.762E-01	0.335
U-235	6.094E-01		7.862E-01	1.441E+00	2.597E-01	0.423
NP-237	-1.376E-01		7.615E-01	1.310E+00	1.242E-01	-0.105
AM-241	-3.408E-01		2.634E-01	4.244E-01	3.125E-02	-0.803
CM-243	-3.864E-01		7.871E-01	1.318E+00	1.995E-01	-0.293

Sample ID : 1006061-05 Acquisition date : 9-JUL-2010 04:29:43

Total number of lines in spectrum	23	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	15	65.22%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.933E+00	2.933E+00	1.849E+00	63.02	
PB-212	1.41E+10Y	1.00	9.986E-01	9.986E-01	4.088E-01	40.94	
PB-214	1602.00Y	1.00	1.013E+00	1.013E+00	0.425E+00	41.94	
RA-224	1.41E+10Y	1.00	1.137E+01	1.137E+01	0.466E+01	40.98	
RA-226	1602.00Y	1.00	6.647E+00	6.647E+00	12.93E+00	194.50	
		Total Activity :	2.296E+01	2.296E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
KR-85	10.72Y	1.01	4.449E+01	4.478E+01	4.688E+01	104.69	
SR-85	64.84D	1.49	1.945E-01	2.895E-01	3.031E-01	104.69	
		Total Activity :	4.468E+01	4.507E+01			

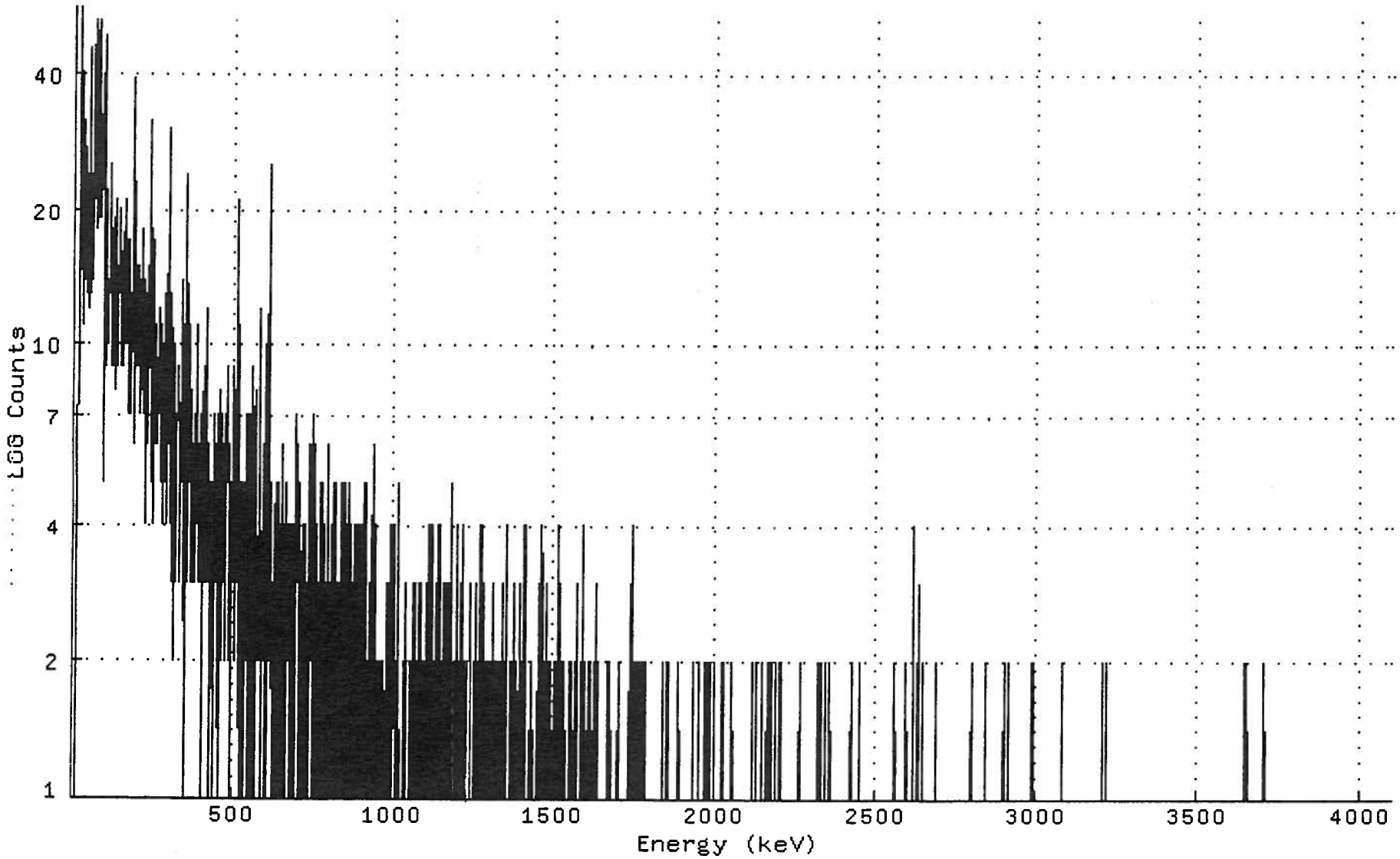
Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	4.024E-01	4.024E-01	2.460E-01	61.14	
		Total Activity :	4.024E-01	4.024E-01			

Grand Total Activity : 6.805E+01 6.844E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606105_GE4_GAS1002_151284.CNF;1
Title :
Sample Title: S-2
Start Time: 9-JUL-2010 04:29: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:00.83 Sample ID : 1006061-05 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606105_GE4_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	54
17:	56	34	30	29	38	24	30	40
25:	25	24	19	11	22	31	13	24
33:	21	26	22	17	14	27	20	19
41:	13	22	24	16	16	35	45	34
49:	16	19	12	23	24	17	13	15
57:	17	14	24	20	23	24	40	52
65:	30	31	23	21	24	23	18	20
73:	24	35	46	52	42	42	23	19
81:	24	32	19	29	29	19	28	34
89:	23	26	22	33	48	36	19	5
97:	14	13	13	20	22	15	9	12
105:	13	10	14	12	12	10	19	17
113:	17	25	22	13	17	18	9	11
121:	14	11	17	17	18	19	11	9
129:	19	8	17	21	13	15	14	11
137:	12	15	9	15	13	14	19	14
145:	20	14	14	13	9	13	16	11
153:	11	9	16	13	9	15	21	14
161:	10	18	13	13	13	10	17	16
169:	11	15	10	15	16	7	17	10
177:	10	8	8	12	7	13	11	18
185:	16	39	20	23	18	6	10	16
193:	11	15	9	9	12	14	12	10
201:	15	13	14	9	12	7	14	12
209:	12	12	12	11	18	11	10	11
217:	8	10	9	14	7	13	9	12
225:	8	13	4	11	7	7	15	9
233:	12	6	6	13	14	25	31	17
241:	13	18	14	11	7	5	17	6
249:	4	14	4	6	8	10	6	8
257:	9	11	8	9	6	7	9	9
265:	9	9	7	8	10	12	10	9
273:	11	6	5	11	8	4	9	10
281:	10	8	9	10	6	11	5	13
289:	7	8	4	7	7	13	16	30
297:	19	8	6	9	9	8	9	4
305:	11	13	9	9	8	3	7	3
313:	8	2	5	10	5	3	3	5
321:	7	4	5	9	8	8	7	8
329:	8	7	3	4	4	5	5	6
337:	8	8	14	5	6	8	7	6
345:	9	11	6	1	7	12	16	24
353:	17	11	3	7	7	3	6	11
361:	7	6	5	6	8	8	8	4
369:	3	4	3	3	4	6	3	6
377:	5	7	3	3	6	3	6	6
385:	7	11	4	4	8	3	4	5
393:	4	5	6	5	7	7	5	5
401:	3	4	5	7	1	7	9	4
409:	4	3	7	3	4	12	3	8
417:	6	6	4	3	3	3	6	3
425:	5	2	4	4	3	0	3	4

433:	2	5	4	4	1	6	3	4
441:	7	3	5	3	5	5	6	4
449:	3	5	7	3	7	2	1	5
457:	1	6	3	8	3	2	4	7
465:	2	5	6	6	6	5	3	4
473:	7	2	3	4	5	6	5	6
481:	5	5	9	4	4	2	6	4
489:	4	4	5	2	5	1	1	9
497:	4	3	4	3	4	8	2	6
505:	5	4	3	3	3	13	21	15
513:	7	11	6	3	2	2	2	1
521:	5	2	1	4	3	4	5	3
529:	2	1	3	5	3	3	4	1
537:	5	4	3	7	3	2	3	7
545:	0	2	5	3	1	6	3	3
553:	7	1	2	6	3	4	4	1
561:	9	6	7	3	1	6	0	3
569:	1	5	8	3	2	2	3	3
577:	2	2	7	6	3	2	12	7
585:	2	0	2	2	3	3	5	4
593:	2	6	2	4	5	1	4	10
601:	6	2	5	5	4	3	1	6
609:	23	25	14	5	5	2	4	2
617:	5	4	3	3	1	2	3	1
625:	3	1	2	2	1	3	1	4
633:	5	3	2	2	1	3	1	4
641:	2	5	4	4	2	2	2	3
649:	1	6	3	1	4	1	2	3
657:	1	4	2	1	2	1	5	4
665:	2	0	2	2	2	4	3	4
673:	2	2	4	2	0	1	0	1
681:	4	3	1	2	1	3	2	3
689:	0	4	1	7	6	2	0	5
697:	3	5	6	3	4	4	3	5
705:	3	1	2	1	4	3	2	1
713:	2	1	3	4	0	2	1	4
721:	1	4	0	4	2	2	3	2
729:	3	0	1	1	2	6	2	1
737:	2	2	2	6	2	2	3	4
745:	7	4	3	3	0	1	3	5
753:	6	1	5	4	4	2	2	2
761:	1	3	1	1	3	3	3	1
769:	3	5	2	1	0	5	5	2
777:	1	1	4	2	0	2	4	0
785:	3	1	3	0	1	2	2	2
793:	1	5	6	4	1	1	2	2
801:	0	2	3	2	3	3	4	0
809:	2	0	2	2	4	2	5	2
817:	1	5	3	3	3	3	1	0
825:	0	3	2	0	3	1	0	3
833:	2	1	5	0	2	2	2	0
841:	1	2	5	4	2	0	1	1
849:	1	5	1	4	0	0	1	2
857:	0	2	1	5	2	1	2	1
865:	2	2	4	1	3	3	0	3
873:	2	2	1	3	2	1	4	2
881:	2	2	1	4	2	3	1	2
889:	2	0	4	2	2	4	3	3
897:	1	3	1	1	1	4	1	2
905:	0	1	2	0	1	5	0	5

913:	2	1	2	1	0	2	1	2
921:	1	0	1	0	3	0	1	2
929:	2	1	2	1	1	3	6	0
937:	2	1	3	1	0	4	1	1
945:	0	1	2	0	1	1	2	1
953:	0	0	0	1	1	2	0	0
961:	1	0	1	2	1	2	1	2
969:	2	1	0	1	0	1	0	3
977:	0	0	2	2	1	3	0	1
985:	0	0	2	4	2	2	0	0
993:	2	0	0	0	1	4	2	3
1001:	3	3	4	4	2	0	2	1
1009:	0	2	2	2	2	1	5	3
1017:	2	1	0	0	1	0	0	1
1025:	1	0	1	0	1	0	0	0
1033:	0	1	2	0	1	3	2	1
1041:	0	0	1	0	0	0	1	0
1049:	2	1	0	0	1	1	2	0
1057:	1	2	2	1	3	3	0	0
1065:	0	1	1	2	3	1	0	0
1073:	1	1	2	1	2	1	3	3
1081:	0	1	2	2	3	1	1	2
1089:	0	1	1	2	0	1	0	2
1097:	1	1	0	1	0	0	3	0
1105:	1	1	2	2	0	4	3	4
1113:	4	0	2	0	2	2	4	2
1121:	3	1	1	1	1	2	1	1
1129:	0	1	0	1	1	1	3	0
1137:	1	1	2	4	1	1	3	1
1145:	0	0	4	0	0	0	0	2
1153:	0	3	0	1	0	0	0	1
1161:	1	2	0	3	1	1	1	2
1169:	3	3	1	2	3	1	0	2
1177:	1	0	1	5	1	1	1	1
1185:	2	1	0	0	1	1	2	1
1193:	1	0	1	2	0	4	1	1
1201:	2	0	0	2	1	1	1	2
1209:	0	1	3	1	1	4	1	2
1217:	0	1	1	0	0	2	0	1
1225:	0	0	0	1	2	0	1	1
1233:	1	1	0	0	1	3	2	3
1241:	3	1	0	0	0	0	0	0
1249:	0	1	2	1	0	2	0	3
1257:	0	0	1	1	2	1	2	1
1265:	0	2	1	2	0	0	0	4
1273:	4	0	1	0	0	0	0	3
1281:	1	0	2	2	0	1	0	0
1289:	2	0	0	0	0	0	2	2
1297:	0	0	1	0	0	2	0	0
1305:	1	1	0	3	0	1	1	1
1313:	1	2	0	0	1	0	0	2
1321:	0	1	2	1	2	2	0	0
1329:	0	0	0	2	1	0	0	2
1337:	2	0	1	0	0	0	3	0
1345:	0	0	1	0	1	4	1	1
1353:	0	1	0	1	1	0	0	0
1361:	0	0	0	2	0	2	1	2
1369:	1	1	0	1	1	0	1	3
1377:	1	1	2	1	0	0	0	1
1385:	0	1	0	0	0	0	3	1

1393:	0	0	1	0	2	0	0	0
1401:	1	1	0	0	4	1	0	0
1409:	0	1	0	0	4	0	0	1
1417:	1	0	1	1	0	1	0	0
1425:	0	1	2	1	1	0	0	2
1433:	1	1	0	0	1	0	0	0
1441:	1	0	0	1	0	1	0	0
1449:	1	3	1	0	0	0	1	4
1457:	0	0	2	1	4	3	2	1
1465:	0	0	0	1	2	0	0	0
1473:	0	0	3	0	1	1	0	2
1481:	1	0	0	1	0	1	0	1
1489:	2	2	2	0	1	0	0	1
1497:	0	1	0	2	0	2	1	0
1505:	1	0	1	0	1	4	1	0
1513:	1	2	0	0	1	3	1	0
1521:	1	0	2	0	0	0	1	2
1529:	0	0	0	2	0	0	0	0
1537:	0	0	0	0	1	1	1	0
1545:	0	0	2	0	0	0	0	0
1553:	0	2	0	0	1	0	1	1
1561:	1	0	2	1	0	0	0	1
1569:	0	2	0	1	3	1	0	1
1577:	0	1	0	1	0	2	0	0
1585:	0	1	1	1	1	0	4	1
1593:	0	0	0	0	1	2	0	0
1601:	1	0	1	0	1	2	1	2
1609:	2	0	0	1	0	2	1	0
1617:	0	0	1	1	0	2	1	0
1625:	1	2	1	1	2	2	0	3
1633:	1	1	0	2	0	0	1	0
1641:	1	0	1	1	0	0	1	0
1649:	0	1	0	0	0	0	0	0
1657:	1	0	1	0	0	0	0	0
1665:	0	1	0	0	2	0	2	0
1673:	0	0	2	0	0	0	1	1
1681:	1	0	0	1	0	0	1	0
1689:	1	1	0	0	0	0	0	0
1697:	0	0	2	0	0	0	2	0
1705:	1	1	0	0	0	0	1	0
1713:	1	0	0	1	1	0	1	1
1721:	0	1	1	0	0	0	1	1
1729:	1	1	0	0	1	0	3	0
1737:	0	0	0	0	3	4	0	1
1745:	1	1	0	1	1	0	1	2
1753:	0	1	2	1	0	0	0	0
1761:	2	1	0	1	2	1	2	1
1769:	1	1	2	0	0	0	0	0
1777:	0	0	2	0	1	0	0	0
1785:	2	1	0	1	1	0	0	0
1793:	1	0	0	1	0	0	0	0
1801:	0	0	1	0	0	0	0	0
1809:	1	0	0	0	0	0	0	0
1817:	1	1	0	0	0	1	1	1
1825:	1	0	1	0	0	0	0	1
1833:	1	0	1	0	1	0	0	2
1841:	0	1	1	0	0	0	1	1
1849:	0	2	1	1	2	0	0	0
1857:	0	0	0	0	1	0	1	1
1865:	0	0	0	1	0	0	0	0

1873:	0	0	1	1	1	0	1	0
1881:	0	0	0	0	0	0	1	2
1889:	0	0	0	1	0	0	0	0
1897:	1	0	1	0	0	0	0	0
1905:	1	1	1	0	1	0	0	1
1913:	0	0	0	0	1	0	0	0
1921:	1	0	0	0	0	0	0	0
1929:	0	1	0	2	0	0	0	0
1937:	0	1	0	1	0	0	0	0
1945:	0	1	1	0	0	1	0	2
1953:	0	0	0	1	0	0	0	0
1961:	0	1	0	0	0	1	0	0
1969:	1	1	2	0	0	0	1	2
1977:	0	0	0	0	2	0	0	1
1985:	0	0	2	0	0	0	0	0
1993:	0	1	0	1	2	1	0	0
2001:	0	1	0	0	0	1	0	1
2009:	1	0	0	0	1	0	0	0
2017:	0	0	1	1	2	0	0	0
2025:	1	0	2	0	0	0	0	1
2033:	1	0	0	0	0	0	0	0
2041:	0	0	1	0	0	1	0	1
2049:	0	0	0	0	1	2	1	0
2057:	0	0	0	0	1	0	1	0
2065:	0	1	1	0	0	0	1	0
2073:	1	1	0	1	0	0	0	0
2081:	0	0	1	0	1	1	1	1
2089:	0	0	0	0	0	0	1	1
2097:	0	1	0	1	1	0	0	0
2105:	0	0	1	0	0	1	0	1
2113:	1	0	1	2	0	0	1	1
2121:	0	0	0	1	0	1	0	0
2129:	2	0	0	0	1	0	0	1
2137:	0	0	0	0	0	0	0	1
2145:	0	0	2	2	0	0	1	1
2153:	0	0	0	0	0	0	0	0
2161:	0	2	0	0	0	0	0	0
2169:	0	0	0	2	0	1	0	2
2177:	1	1	1	0	0	0	0	0
2185:	0	2	0	1	0	1	0	0
2193:	0	0	1	0	0	0	0	1
2201:	0	2	0	2	1	0	0	0
2209:	1	0	0	0	0	0	0	0
2217:	0	0	0	0	1	0	0	1
2225:	0	0	0	0	1	0	0	0
2233:	0	0	0	0	0	0	0	1
2241:	0	0	0	0	0	0	1	0
2249:	0	0	0	0	0	0	0	0
2257:	1	0	0	0	0	2	0	1
2265:	0	0	1	0	0	0	0	0
2273:	0	1	0	1	0	0	1	0
2281:	0	0	1	0	0	1	0	0
2289:	0	0	0	1	0	0	0	1
2297:	0	0	0	1	1	1	0	0
2305:	0	0	0	0	0	0	1	1
2313:	0	0	0	0	0	0	2	0
2321:	0	0	1	0	0	0	2	0
2329:	2	0	0	0	0	0	0	0
2337:	0	1	0	1	0	2	0	0
2345:	0	0	0	1	1	1	0	0

2353:	0	0	0	2	0	0	0	0
2361:	1	0	0	0	0	0	0	0
2369:	1	0	0	1	0	0	0	0
2377:	0	0	0	0	0	0	0	0
2385:	1	0	0	0	0	1	0	1
2393:	1	0	0	0	0	0	0	1
2401:	0	0	0	0	0	0	0	1
2409:	1	0	0	1	0	0	0	0
2417:	0	0	0	0	0	2	1	0
2425:	0	0	0	0	0	0	0	0
2433:	0	0	0	0	0	0	0	0
2441:	0	0	1	0	0	0	2	2
2449:	0	0	1	0	0	0	0	1
2457:	0	0	0	1	0	0	1	0
2465:	0	0	0	0	1	0	0	0
2473:	0	0	0	0	0	0	0	0
2481:	0	0	0	0	0	0	0	0
2489:	0	0	0	0	0	0	0	0
2497:	0	1	0	1	0	0	0	0
2505:	1	0	0	0	0	0	0	0
2513:	0	0	0	0	1	0	0	0
2521:	0	1	0	1	1	0	0	0
2529:	0	0	0	1	1	0	0	0
2537:	0	0	0	0	0	0	0	0
2545:	0	1	0	0	0	0	0	0
2553:	1	0	0	0	1	2	0	1
2561:	0	0	1	0	0	0	0	0
2569:	0	0	1	0	0	0	1	1
2577:	1	0	0	0	0	0	1	0
2585:	0	0	0	1	0	0	0	0
2593:	2	1	1	0	0	0	0	0
2601:	1	0	1	1	0	0	0	0
2609:	0	0	0	1	0	4	0	1
2617:	1	0	0	0	0	0	0	0
2625:	0	0	0	2	1	2	1	3
2633:	0	0	1	0	0	0	0	0
2641:	1	0	0	1	0	2	1	0
2649:	0	1	1	0	0	0	0	0
2657:	0	0	0	0	0	1	1	0
2665:	0	0	0	0	0	0	1	0
2673:	0	0	0	0	0	1	0	0
2681:	0	0	0	0	2	0	0	0
2689:	0	0	0	0	0	1	0	0
2697:	0	0	0	0	1	0	0	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	0	0	0	0	0
2721:	0	0	0	0	0	1	1	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	1	0	0	0	0
2753:	1	1	1	0	0	0	0	0
2761:	0	1	0	0	0	0	1	1
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	0	0	1	0
2793:	1	0	0	2	0	0	1	0
2801:	0	0	0	0	0	0	0	0
2809:	1	0	0	0	0	0	0	0
2817:	0	0	0	0	0	0	0	1
2825:	0	0	0	0	0	0	0	0

2833:	0	0	0	0	0	0	1	0
2841:	2	0	0	0	0	1	0	1
2849:	0	0	1	0	0	0	0	0
2857:	0	0	1	0	0	0	0	0
2865:	1	0	1	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	0	1	0	0	0
2889:	0	0	0	0	0	0	0	2
2897:	0	0	0	0	0	0	0	1
2905:	0	0	0	0	2	1	0	0
2913:	0	1	0	0	1	1	0	0
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	0	0	0	0	1	0
2953:	0	1	0	0	0	0	0	0
2961:	0	0	0	0	1	0	0	0
2969:	0	0	0	0	0	0	0	0
2977:	0	0	1	0	0	2	0	0
2985:	0	1	1	2	0	0	0	0
2993:	0	0	0	0	0	0	0	0
3001:	1	0	0	0	0	1	1	0
3009:	0	1	0	0	0	0	0	1
3017:	0	0	0	0	0	1	0	0
3025:	0	0	0	0	1	0	0	0
3033:	0	0	0	0	1	0	0	1
3041:	0	0	0	1	0	1	1	0
3049:	1	1	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	1	0	0	0
3073:	0	0	0	1	2	0	0	0
3081:	0	0	1	0	0	0	1	0
3089:	0	0	1	0	0	0	1	0
3097:	0	1	0	0	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	1	0	0	0	0	0	0	1
3121:	0	0	0	0	0	0	1	0
3129:	1	0	0	1	0	0	0	1
3137:	0	0	1	0	0	0	0	0
3145:	1	1	0	0	0	0	1	0
3153:	0	0	0	0	1	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	1	0	1	0	0	0	1
3185:	0	0	0	0	0	0	0	0
3193:	0	1	0	0	0	0	0	0
3201:	0	2	0	0	0	0	0	0
3209:	0	0	0	0	2	0	0	0
3217:	0	1	0	1	0	0	0	0
3225:	1	1	0	0	0	0	0	0
3233:	0	0	0	0	0	1	0	0
3241:	0	0	0	1	0	0	0	0
3249:	0	0	1	0	1	0	0	0
3257:	0	1	0	1	0	0	0	0
3265:	0	0	0	0	0	1	0	0
3273:	0	0	1	0	1	0	0	0
3281:	0	0	0	1	0	1	0	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	1	0	0	0

3313:	0	1	0	0	0	0	0	1
3321:	0	0	0	0	0	0	0	0
3329:	0	0	1	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	1	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	0	1	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	1	0
3393:	0	0	0	0	0	0	0	0
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	1	0	0	0	0	0
3425:	0	0	0	0	0	1	0	1
3433:	0	1	0	0	0	0	1	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	0	0	1	0	0
3465:	0	0	0	1	0	0	1	0
3473:	0	0	0	0	0	0	0	0
3481:	1	1	0	1	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	1	0	0	0	0	0
3505:	0	0	0	1	0	0	0	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	0	0	0	0	0	1
3529:	0	0	1	0	0	0	0	1
3537:	0	0	0	0	1	0	0	1
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	0
3561:	0	0	1	0	0	0	0	0
3569:	0	0	0	1	1	0	0	0
3577:	0	0	0	1	0	0	1	0
3585:	0	0	0	0	0	0	0	0
3593:	1	1	0	0	1	0	0	0
3601:	0	0	0	1	0	0	0	1
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	1	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	1	0	0	0	0	0	0	2
3641:	0	1	0	0	0	1	0	2
3649:	0	0	0	0	1	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	1	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	1
3689:	0	0	0	1	0	1	0	0
3697:	1	0	0	0	2	0	0	1
3705:	0	0	0	0	0	0	0	0
3713:	0	0	1	0	0	0	1	0
3721:	0	0	0	0	0	0	0	0
3729:	1	0	0	0	1	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	1	0	0	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	1	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0

3793:	0	1	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	1	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	1	1
3865:	0	0	0	0	0	1	0	0
3873:	0	0	0	0	0	0	0	1
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	1	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	1	0	0	0	0
3913:	1	0	0	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	1	0	0	0	0	0
3937:	1	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	1	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	1	0	1	0	0	0
3969:	1	0	0	0	0	0	1	0
3977:	0	0	0	1	0	0	0	1
3985:	0	0	0	1	0	0	1	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	1	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	0	0	1	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	1	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	1	0	0	0

KM
7-9-10

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

VAX/VMS Peak Search Report Generated 9-JUL-2010 06:31:54.09

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606106_GE4_GAS1002_151290.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-3
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 05:31:37.
Sample ID : 1006061-06 Sample Quantity : 2.79500E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:02.19 0.1%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	48.21*	127	948	3.38	48.20	44	10	92.8		TH-230
0	76.27*	1627	1878	4.14	76.25	71	10	11.2		
0	84.56*	203	1959	5.19	84.54	81	9	79.7		
0	129.28	116	913	1.79	129.24	125	9	95.4		
0	143.83	134	764	1.87	143.79	139	9	76.6		
0	154.86	107	483	1.60	154.81	152	6	68.0		
0	187.10	169	854	3.33	187.03	182	13	73.2		RA-226
0	208.63	191	775	2.16	208.56	203	12	60.0		
1	239.05*	1637	353	2.25	238.96	233	14	6.4	3.82E+00	PB-212
1	241.88	221	330	2.25	241.80	233	14	46.9		RA-224
0	257.22	72	328	1.72	257.13	253	8	90.8		
0	270.69	271	324	3.30	270.59	266	9	26.9		LU-173
0	277.94	97	298	2.14	277.84	275	9	67.1		HG-203
3	295.67*	157	212	2.09	295.56	291	14	33.1	1.39E+00	PB-214
3	300.79	107	261	2.66	300.68	291	14	56.4		PB-212
3	324.36	30	143	2.35	324.24	322	11	123.9	1.14E+00	RA-223
3	328.37	112	209	2.31	328.24	322	11	46.8		
0	339.01*	295	276	2.28	338.88	334	10	24.3		AC-228
0	351.97*	403	213	2.48	351.84	346	10	16.9		PB-214
0	410.56	46	131	2.91	410.40	407	8	93.0		
0	463.49	91	94	1.75	463.31	460	7	41.1		
0	511.26*	149	140	2.68	511.06	507	10	35.5		
0	583.60*	440	118	2.31	583.37	579	11	13.6		TL-208
0	610.00*	187	140	2.37	609.76	604	11	28.7		BI-214
0	650.44	22	65	1.89	650.19	647	7	125.9		
0	727.96	100	70	2.33	727.68	723	9	36.1		BI-212
0	795.43	42	56	1.77	795.12	791	8	69.0		
1	860.34	53	37	2.32	860.00	856	12	48.1	3.11E+00	TL-208
1	863.58	20	39	2.56	863.23	856	12	138.9		
0	911.72	243	45	2.48	911.36	906	10	16.5		AC-228
5	963.82*	33	6	3.80	963.44	960	13	57.3	5.19E+00	
5	966.83	43	15	3.46	966.44	960	13	76.7		
5	969.69	144	14	2.03	969.30	960	13	19.6		AC-228
0	1120.35	45	42	2.25	1119.90	1115	11	62.8		BI-214
0	1237.91	22	35	2.75	1237.41	1232	10	109.3		
0	1256.32	15	17	2.25	1255.82	1252	7	104.7		

AG
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Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1309.28	15	12	2.13	1308.75	1306	7	92.1		
0	1378.28	15	21	1.50	1377.73	1374	9	118.1		
0	1445.63	8	6	2.94	1445.05	1441	8	132.2		
0	1461.28*	198	23	3.24	1460.69	1452	16	18.1		K-40
1	1588.77	27	25	2.79	1588.13	1581	16	73.5	1.43E+00	
1	1593.64	12	22	2.54	1593.00	1581	16	162.7		
0	1620.74	15	12	7.57	1620.09	1614	11	99.4		BI-212
0	1728.79	11	4	3.60	1728.09	1724	8	87.2		
0	1765.98	26	10	2.33	1765.26	1759	9	57.6		BI-214
0	1849.18	12	4	1.24	1848.43	1844	9	83.4		
0	1931.10	7	4	2.44	1930.31	1925	9	131.3		
0	1946.29	6	3	1.31	1945.50	1942	6	122.5		
0	1986.18	9	5	2.90	1985.37	1982	8	100.3		
0	2034.21	6	2	1.34	2033.39	2030	7	108.6		
0	2104.96	28	12	4.42	2104.11	2099	12	62.3		
0	2205.61	14	8	1.38	2204.72	2199	11	98.0		BI-214
0	2324.29	12	9	3.84	2323.35	2316	11	113.6		
0	2507.73	5	2	0.95	2506.71	2500	9	147.3		
0	2615.73*	108	2	3.04	2614.67	2610	9	20.0		TL-208

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

Total number of lines in spectrum	55	
Number of unidentified lines	22	
Number of lines tentatively identified by NID	33	60.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.965E+01	2.965E+01	0.622E+01	20.99	
TL-208	1.41E+10Y	1.00	7.914E+00	7.914E+00	1.153E+00	14.57	
BI-212	1.41E+10Y	1.00	7.456E+00	7.456E+00	2.665E+00	35.75	
PB-212	1.41E+10Y	1.00	1.029E+01	1.029E+01	0.147E+01	14.31	
BI-214	1602.00Y	1.00	3.050E+00	3.050E+00	0.762E+00	25.00	
PB-214	1602.00Y	1.00	3.592E+00	3.592E+00	0.710E+00	19.78	
RA-223	3.28E+04Y	1.00	2.900E+00	2.900E+00	3.621E+00	124.83	
RA-224	1.41E+10Y	1.00	1.581E+01	1.581E+01	0.770E+01	48.74	
RA-226	1602.00Y	1.00	1.179E+01	1.179E+01	2.326E+01	197.32	
AC-228	1.41E+10Y	1.00	9.679E+00	9.679E+00	1.264E+00	13.06	
			---	---			
	Total Activity :		1.021E+02	1.021E+02			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
LU-173	1.37Y	1.05	4.022E+00	4.235E+00	1.310E+00	30.93	
HG-203	46.60D	1.74	4.050E-01	7.048E-01	4.858E-01	68.93	
TH-230	7.70E+04Y	1.00	1.489E+00	1.489E+00	1.390E+00	93.33	
			---	---			
	Total Activity :		5.916E+00	6.429E+00			

Grand Total Activity : 1.080E+02 1.085E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-06
Acquisition date : 9-JUL-2010 05:31:37

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	2.965E+01	2.965E+01	20.99	OK
	Final Mean for 1 Valid Peaks = 2.965E+01+/- 6.224E+00 (20.99%)						
TL-208	583.14	30.22*	3.936E-01	9.926E+00	9.926E+00	19.44	OK
	860.37	4.48	2.647E-01	1.208E+01	1.208E+01	49.31	OK
	2614.66	35.85	1.255E-01	6.471E+00	6.471E+00	22.89	OK
	Final Mean for 3 Valid Peaks = 7.914E+00+/- 1.153E+00 (14.57%)						
BI-212	727.17	11.80*	3.131E-01	7.280E+00	7.280E+00	38.14	OK
	1620.62	2.75	1.562E-01	9.520E+00	9.520E+00	99.95	OK
	Final Mean for 2 Valid Peaks = 7.456E+00+/- 2.665E+00 (35.75%)						
PB-212	238.63	44.60*	9.611E-01	1.026E+01	1.026E+01	14.75	OK
	300.09	3.41	7.792E-01	1.078E+01	1.078E+01	58.59	OK
	Final Mean for 2 Valid Peaks = 1.029E+01+/- 1.471E+00 (14.31%)						
BI-214	609.31	46.30*	3.759E-01	2.883E+00	2.883E+00	31.74	OK
	1120.29	15.10	2.073E-01	3.871E+00	3.871E+00	63.57	OK
	1764.49	15.80	1.482E-01	2.990E+00	2.990E+00	58.44	OK
	2204.22	4.98	1.326E-01	5.547E+00	5.547E+00	98.62	OK
	Final Mean for 4 Valid Peaks = 3.050E+00+/- 7.624E-01 (25.00%)						
PB-214	295.21	19.19	7.915E-01	2.772E+00	2.772E+00	36.69	OK
	351.92	37.19*	6.661E-01	4.375E+00	4.375E+00	22.70	OK
	Final Mean for 2 Valid Peaks = 3.592E+00+/- 7.104E-01 (19.78%)						
RA-223	323.87	3.88*	7.235E-01	2.900E+00	2.900E+00	124.83	OK
	Final Mean for 1 Valid Peaks = 2.900E+00+/- 3.621E+00 (124.83%)						
RA-224	240.98	3.95*	9.529E-01	1.581E+01	1.581E+01	48.74	OK
	Final Mean for 1 Valid Peaks = 1.581E+01+/- 7.703E+00 (48.74%)						
RA-226	186.21	3.28*	1.172E+00	1.179E+01	1.179E+01	197.32	OK
	Final Mean for 1 Valid Peaks = 1.179E+01+/- 2.326E+01 (197.32%)						
AC-228	338.32	11.40	6.929E-01	1.003E+01	1.003E+01	28.77	OK
	911.07	27.70*	2.505E-01	9.404E+00	9.404E+00	19.49	OK
	969.11	16.60	2.363E-01	9.871E+00	9.871E+00	22.22	OK
	Final Mean for 3 Valid Peaks = 9.679E+00+/- 1.264E+00 (13.06%)						

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
LU-173	100.72	5.24	1.584E+00	----- Line Not Found		-----	Absent
	272.11	21.20*	8.545E-01	4.022E+00	4.235E+00	30.93	OK
	Final Mean for 1 Valid Peaks = 4.235E+00+/- 1.310E+00 (30.93%)						
HG-203	279.19	77.30*	8.343E-01	4.050E-01	7.048E-01	68.93	OK
	Final Mean for 1 Valid Peaks = 7.048E-01+/- 4.858E-01 (68.93%)						
TH-230	48.44	16.90	1.354E+00	1.489E+00	1.489E+00	93.33	OK
	62.85	4.60	1.548E+00	----- Line Not Found		-----	Absent
	67.67	0.37*	1.581E+00	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 1.489E+00+/- 1.390E+00 (93.33%)						

Flag: "*" = Keyline

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	2.965E+01	6.224E+00	2.912E+00	2.882E-01	10.180
LU-173	4.235E+00	1.310E+00	1.072E+00	1.583E-01	3.951
HG-203	7.048E-01	4.858E-01	5.231E-01	8.050E-02	1.347
TL-208	7.914E+00	1.153E+00	1.019E+00	1.359E-01	7.768
BI-212	7.456E+00	2.665E+00	2.919E+00	3.386E-01	2.554
PB-212	1.029E+01	1.471E+00	5.369E-01	6.795E-02	19.158
BI-214	3.050E+00	7.624E-01	6.802E-01	8.802E-02	4.484
PB-214	3.592E+00	7.104E-01	6.710E-01	9.796E-02	5.354
RA-223	2.900E+00	3.621E+00	6.466E+00	9.724E-01	0.449
RA-224	1.581E+01	7.703E+00	6.116E+00	7.828E-01	2.584
RA-226	1.179E+01	2.326E+01	7.006E+00	1.283E+01	1.683
AC-228	9.679E+00	1.264E+00	1.103E+00	1.059E-01	8.778
TH-230	1.489E+00	1.390E+00	7.077E+01	5.562E+00	0.021

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-1.363E+00		2.610E+00	4.262E+00	5.978E-01	-0.320
NA-22	-2.459E-01		2.198E-01	3.506E-01	3.316E-02	-0.701
AL-26	3.891E-02		1.361E-01	2.916E-01	2.647E-02	0.133
TI-44	1.702E-01		1.786E-01	2.780E-01	2.189E-02	0.612
SC-46	-2.184E-01		2.369E-01	3.976E-01	3.873E-02	-0.549
V-48	-2.866E-01		9.149E-01	1.649E+00	1.585E-01	-0.174
CR-51	-3.085E+00		4.348E+00	6.209E+00	9.528E-01	-0.497
MN-54	1.050E-01		2.464E-01	4.349E-01	4.591E-02	0.241
CO-56	-2.108E-01		2.678E-01	4.173E-01	4.338E-02	-0.505
CO-57	-1.636E-01		1.764E-01	2.567E-01	2.647E-02	-0.637
CO-58	-7.427E-03		2.825E-01	4.838E-01	5.260E-02	-0.015
FE-59	1.127E-01		5.921E-01	1.130E+00	1.133E-01	0.100
CO-60	-8.209E-02		2.207E-01	3.922E-01	3.557E-02	-0.209
ZN-65	2.813E-01		4.855E-01	8.647E-01	8.063E-02	0.325
SE-75	1.503E-01		3.939E-01	4.865E-01	6.967E-02	0.309
RB-82	2.662E-01		4.809E+00	8.194E+00	9.192E-01	0.032
RB-83	-3.964E-01		6.534E-01	9.235E-01	1.762E-01	-0.429
KR-85	1.690E+02		6.002E+01	1.001E+02	1.398E+01	1.688
SR-85	1.093E+00		3.882E-01	6.476E-01	9.039E-02	1.688
Y-88	1.373E-01		2.091E-01	4.569E-01	4.110E-02	0.300
NB-93M	2.588E+01		1.363E+01	1.235E+01	5.745E+00	2.095
NB-94	-4.038E-02		2.212E-01	3.287E-01	3.299E-02	-0.123
NB-95	-1.564E-02		4.693E-01	7.940E-01	8.989E-02	-0.020
ZR-95	5.540E-01		6.205E-01	1.121E+00	1.352E-01	0.494
RU-103	-1.430E-01		3.646E-01	6.011E-01	1.080E-01	-0.238
RU-106	-1.471E+00		2.102E+00	3.345E+00	5.455E-01	-0.440
AG-108M	1.643E-01		2.465E-01	4.019E-01	4.673E-02	0.409
CD-109	2.278E+00		5.490E+00	8.378E+00	9.477E-01	0.272
AG-110M	-6.715E-02		2.701E-01	3.968E-01	4.742E-02	-0.169
SN-113	-1.449E-01		2.999E-01	4.930E-01	6.757E-02	-0.294

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TE123M	1.137E-01		2.036E-01	3.153E-01	2.861E-02	0.361
SB-124	2.377E-02		3.358E-01	5.116E-01	6.677E-02	0.046
I-125	-1.904E+00		3.834E+00	6.490E+00	7.171E-01	-0.293
SB-125	2.265E-01		5.524E-01	9.613E-01	1.342E-01	0.236
SB-126	-5.762E-01		3.356E+00	4.981E+00	5.798E-01	-0.116
SN-126	7.243E-01		5.172E-01	8.009E-01	7.685E-02	0.904
I-129	-1.370E-01		3.541E-01	6.024E-01	8.420E-02	-0.227
I-131	-1.016E+00		4.575E+00	7.660E+00	1.097E+00	-0.133
BA-133	8.488E-01		3.447E-01	5.443E-01	9.593E-02	1.559
CS-134	-2.044E-02		2.341E-01	3.504E-01	4.566E-02	-0.058
CS-135	3.140E+00		1.213E+00	1.910E+00	2.774E-01	1.644
CS-136	1.057E+00		1.678E+00	3.325E+00	3.248E-01	0.318
CS-137	7.004E-02		2.326E-01	4.053E-01	4.810E-02	0.173
LA-138	-1.239E-03		3.212E-01	5.369E-01	5.199E-02	-0.002
CE-139	-1.183E-02		1.924E-01	3.248E-01	2.858E-02	-0.036
BA-140	-1.634E-03		5.282E+00	8.987E+00	3.133E+00	0.000
LA-140	8.737E-01		2.154E+00	3.748E+00	3.582E-01	0.233
CE-141	6.238E-01		6.761E-01	1.026E+00	2.805E-01	0.608
CE-144	1.092E+00		1.576E+00	2.244E+00	2.233E-01	0.487
PM-144	1.341E-01		2.329E-01	4.120E-01	4.848E-02	0.326
PM-145	1.587E-01		7.270E-01	1.246E+00	8.145E-01	0.127
PM-146	3.552E-02		4.300E-01	7.002E-01	9.790E-02	0.051
ND-147	-1.787E+00		1.485E+01	2.497E+01	3.463E+00	-0.072
EU-152	-8.442E-01		1.343E+00	2.305E+00	2.714E-01	-0.366
GD-153	5.740E-02		6.162E-01	1.047E+00	1.030E-01	0.055
EU-154	-6.754E-01		6.074E-01	9.703E-01	9.175E-02	-0.696
EU-155	1.634E+00		6.309E-01	9.820E-01	9.315E-02	1.664
EU-156	-4.715E+00		1.039E+01	1.687E+01	4.010E+00	-0.280
HO-166M	-1.841E-01		3.903E-01	6.350E-01	7.421E-02	-0.290
HF-172	1.121E+00		1.253E+00	1.957E+00	1.993E-01	0.573
LU-172	-4.702E+00		1.442E+01	2.594E+01	2.436E+00	-0.181
HF-175	2.611E-01		3.385E-01	4.379E-01	6.462E-02	0.596
LU-176	-8.962E-02		1.760E-01	2.562E-01	3.890E-02	-0.350
TA-182	2.101E+00	+	1.335E+00	1.923E+00	1.788E-01	1.092
IR-192	1.632E-01		5.535E-01	8.584E-01	1.203E-01	0.190
BI-207	-1.146E-01		1.966E-01	3.198E-01	4.322E-02	-0.358
BI-210M	1.095E-01		4.213E-01	5.150E-01	7.268E-02	0.213
PB-210	2.672E-01		3.387E+00	5.852E+00	4.974E-01	0.046
PB-211	-1.688E+00		6.701E+00	9.899E+00	1.353E+00	-0.170
RN-219	2.184E+00		2.935E+00	4.639E+00	6.327E-01	0.471
RA-225	2.898E+00		2.909E+00	4.644E+00	4.504E-01	0.624
TH-227	2.065E+01		3.290E+00	3.904E+00	4.879E-01	5.290
PA-231	1.210E+01		7.735E+00	1.236E+01	1.880E+00	0.979
TH-231	-2.588E-01		1.786E+00	3.064E+00	5.465E-01	-0.084
PA-233	5.410E-01		9.999E-01	1.720E+00	4.417E-01	0.315
PA-234	1.332E+00		7.288E-01	1.153E+00	1.156E-01	1.155
PA-234M	-2.191E+01		1.902E+01	3.060E+01	2.936E+00	-0.716
TH-234	-1.396E+00		3.869E+00	6.572E+00	4.977E-01	-0.212

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
U-235	2.483E+00	+	1.957E+00	2.201E+00	3.966E-01	1.128
NP-237	3.949E+00		1.525E+00	2.374E+00	2.252E-01	1.663
AM-241	-2.715E-01		3.852E-01	6.440E-01	4.741E-02	-0.422
AM-243	2.926E+00		4.183E-01	5.718E-01	4.800E-02	5.118
CM-243	2.230E+00	+	1.536E+00	1.888E+00	2.859E-01	1.181

Sample ID : 1006061-06 Acquisition date : 9-JUL-2010 05:31:37

Total number of lines in spectrum	55	
Number of unidentified lines	22	
Number of lines tentatively identified by NID	33	60.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.965E+01	2.965E+01	0.622E+01	20.99	
TL-208	1.41E+10Y	1.00	7.914E+00	7.914E+00	1.153E+00	14.57	
BI-212	1.41E+10Y	1.00	7.456E+00	7.456E+00	2.665E+00	35.75	
PB-212	1.41E+10Y	1.00	1.029E+01	1.029E+01	0.147E+01	14.31	
BI-214	1602.00Y	1.00	3.050E+00	3.050E+00	0.762E+00	25.00	
PB-214	1602.00Y	1.00	3.592E+00	3.592E+00	0.710E+00	19.78	
RA-223	3.28E+04Y	1.00	2.900E+00	2.900E+00	3.621E+00	124.83	
RA-224	1.41E+10Y	1.00	1.581E+01	1.581E+01	0.770E+01	48.74	
RA-226	1602.00Y	1.00	1.179E+01	1.179E+01	2.326E+01	197.32	
AC-228	1.41E+10Y	1.00	9.679E+00	9.679E+00	1.264E+00	13.06	
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	Total Activity :		1.021E+02	1.021E+02			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
LU-173	1.37Y	1.05	4.022E+00	4.235E+00	1.310E+00	30.93	
HG-203	46.60D	1.74	4.050E-01	7.048E-01	4.858E-01	68.93	
TH-230	7.70E+04Y	1.00	1.489E+00	1.489E+00	1.390E+00	93.33	
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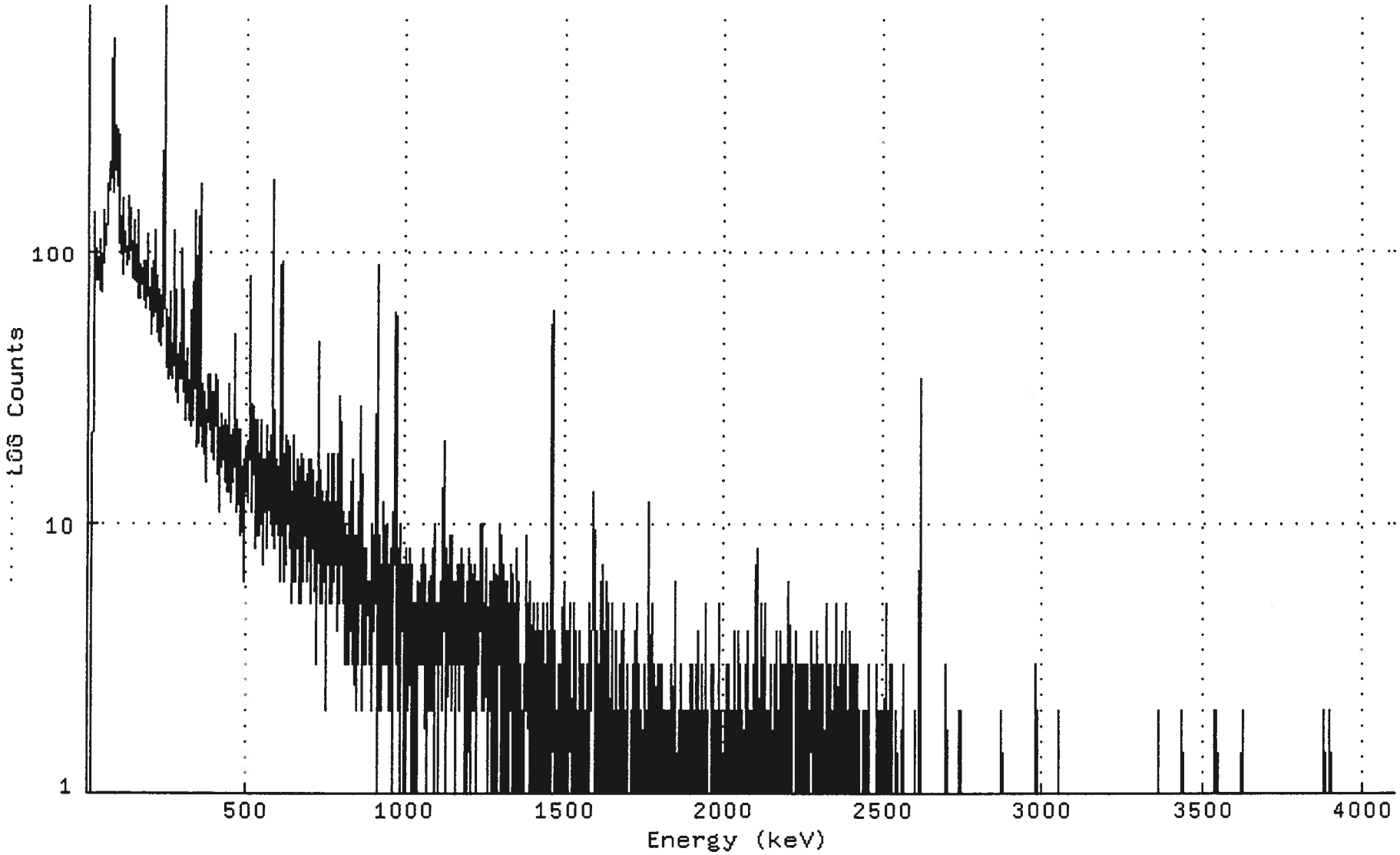
	Total Activity :		5.916E+00	6.429E+00			

Grand Total Activity : 1.080E+02 1.085E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606106_GE4_GAS1002_151290.CNF;1
Title :
Sample Title: S-3
Start Time: 9-JUL-2010 05:31: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:02.19 Sample ID : 1006061-06 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606106_GE4_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	4	117
17:	139	126	108	98	84	99	103	93
25:	83	98	78	79	83	77	84	94
33:	86	89	71	89	82	90	111	87
41:	85	94	74	70	78	103	141	111
49:	126	127	129	105	114	118	113	111
57:	116	140	136	127	134	148	173	178
65:	168	194	169	209	190	184	188	206
73:	224	334	508	487	607	547	252	165
81:	214	196	247	289	245	215	262	282
89:	225	258	199	173	249	266	202	139
97:	109	108	140	131	98	117	99	117
105:	114	157	114	96	113	100	82	116
113:	112	113	119	116	116	91	104	88
121:	89	93	90	95	98	101	93	123
129:	160	131	112	104	107	104	114	87
137:	79	102	89	93	110	97	104	131
145:	105	92	77	76	88	82	99	79
153:	96	117	141	75	82	67	101	78
161:	67	88	71	78	76	76	81	75
169:	82	80	85	66	85	85	74	92
177:	68	79	92	72	75	62	65	81
185:	94	116	104	95	70	64	72	73
193:	66	61	66	67	67	75	86	73
201:	50	65	62	59	82	92	77	78
209:	115	120	77	84	69	51	80	66
217:	56	57	63	71	47	66	67	51
225:	70	53	54	57	45	68	56	63
233:	53	63	63	80	124	427	811	411
241:	148	143	84	44	37	44	44	38
249:	43	34	49	57	41	49	55	56
257:	70	49	45	35	35	46	42	43
265:	39	41	34	42	89	120	111	81
273:	42	35	30	42	72	66	42	34
281:	39	42	28	39	29	41	46	40
289:	34	37	37	35	34	56	87	103
297:	47	30	39	72	59	48	39	24
305:	39	32	35	33	27	36	30	30
313:	44	43	28	33	24	30	32	29
321:	33	23	32	45	32	36	49	76
329:	63	39	30	24	38	31	33	33
337:	47	141	132	70	32	37	19	25
345:	19	20	30	26	25	39	106	176
353:	133	43	23	24	33	27	32	26
361:	19	25	21	22	22	26	29	30
369:	18	26	22	22	14	23	23	24
377:	29	27	35	32	30	35	24	28
385:	29	22	25	30	28	21	20	21
393:	19	17	21	28	17	22	30	27
401:	30	27	35	23	23	28	15	24
409:	33	33	26	17	14	15	11	19
417:	22	23	20	25	21	19	16	18
425:	18	21	23	18	20	24	14	15

433:	20	21	14	23	13	17	15	20
441:	18	17	15	21	32	13	20	14
449:	14	12	12	21	18	14	22	18
457:	22	22	17	16	21	28	50	30
465:	29	11	11	20	24	17	20	19
473:	22	16	19	16	15	9	13	22
481:	11	16	18	13	13	16	12	14
489:	14	6	17	14	12	10	12	15
497:	17	15	19	13	18	17	20	13
505:	19	16	12	24	26	63	80	51
513:	36	21	14	15	13	11	16	22
521:	15	21	20	24	27	16	8	22
529:	24	14	8	16	13	14	9	24
537:	15	15	9	13	12	18	18	15
545:	16	24	10	12	14	10	14	10
553:	7	17	13	16	11	16	17	15
561:	13	23	23	11	14	13	8	15
569:	15	14	12	17	16	21	11	13
577:	17	10	12	9	21	72	181	171
585:	49	14	14	9	9	12	8	15
593:	14	12	17	11	10	15	16	9
601:	13	14	15	14	13	11	6	37
609:	85	92	41	10	10	12	10	8
617:	11	18	6	13	7	7	14	14
625:	12	11	21	19	10	12	10	18
633:	10	13	17	11	12	19	8	11
641:	11	5	12	11	13	13	6	10
649:	21	19	10	12	9	9	14	6
657:	12	14	12	11	8	12	17	11
665:	7	11	16	5	13	18	13	16
673:	5	16	16	13	17	6	11	12
681:	17	11	9	14	13	9	11	12
689:	7	6	15	11	12	17	15	13
697:	14	11	10	5	11	14	8	11
705:	17	14	15	13	9	8	13	12
713:	7	9	10	11	10	3	10	14
721:	12	9	6	8	9	23	47	41
729:	17	14	5	11	6	5	12	7
737:	5	10	5	13	8	11	10	12
745:	12	6	11	13	2	11	8	10
753:	9	15	16	15	18	9	7	10
761:	12	5	11	5	9	10	15	14
769:	12	5	18	11	18	10	11	6
777:	7	12	12	9	10	7	11	9
785:	16	18	4	10	8	5	9	8
793:	5	13	29	19	8	7	7	13
801:	11	8	11	8	5	10	9	6
809:	6	8	10	3	9	3	4	7
817:	8	7	9	9	5	5	11	3
825:	6	4	14	7	9	8	12	12
833:	3	7	12	17	7	6	9	8
841:	8	6	3	2	7	3	4	9
849:	6	5	3	6	12	4	4	8
857:	5	8	13	27	25	9	13	4
865:	7	5	2	7	5	8	3	8
873:	6	3	8	5	5	4	5	5
881:	6	5	6	6	5	4	3	4
889:	5	5	6	2	3	10	5	10
897:	6	9	5	5	5	4	4	7
905:	7	6	5	9	13	49	89	88

913:	19	9	1	4	3	3	3	9
921:	4	6	5	2	4	3	7	7
929:	7	3	4	4	12	8	4	3
937:	3	3	5	10	3	5	5	9
945:	5	3	7	2	5	6	5	6
953:	3	8	7	2	5	5	0	1
961:	2	11	6	15	13	18	7	32
969:	60	57	8	3	4	7	3	3
977:	5	4	7	2	8	3	4	10
985:	1	2	4	5	7	5	4	6
993:	5	7	5	5	3	1	3	4
1001:	1	3	5	4	8	3	5	5
1009:	7	2	2	3	4	3	4	8
1017:	6	6	7	6	5	3	0	4
1025:	5	0	3	5	4	1	3	2
1033:	4	4	5	2	5	6	3	1
1041:	5	5	3	4	5	3	5	7
1049:	5	6	4	3	4	3	5	5
1057:	8	4	6	2	5	4	2	7
1065:	3	0	2	5	2	4	4	2
1073:	3	4	2	6	4	5	5	4
1081:	4	2	5	8	2	3	5	5
1089:	7	1	10	2	2	3	4	4
1097:	5	4	3	4	5	4	4	3
1105:	1	5	4	3	3	6	3	6
1113:	6	2	4	6	4	6	10	18
1121:	20	6	4	4	5	4	1	8
1129:	3	3	1	5	5	5	5	7
1137:	4	3	9	6	5	4	7	5
1145:	9	6	6	2	4	5	3	4
1153:	5	6	3	4	3	6	1	2
1161:	6	4	5	7	5	4	3	5
1169:	7	7	2	5	2	6	3	4
1177:	5	5	8	6	4	4	3	6
1185:	4	5	5	1	2	1	4	5
1193:	4	5	1	6	1	6	5	2
1201:	3	8	2	1	2	2	3	4
1209:	7	4	2	4	3	4	6	7
1217:	4	4	4	4	4	1	6	3
1225:	5	3	3	5	4	6	3	4
1233:	4	6	6	4	8	10	9	4
1241:	2	5	10	5	3	5	2	2
1249:	4	3	5	4	6	3	6	8
1257:	5	0	2	3	2	2	4	6
1265:	2	5	5	5	4	4	4	0
1273:	6	2	3	1	3	3	2	6
1281:	7	6	1	1	4	5	4	4
1289:	2	5	4	1	4	10	3	4
1297:	6	4	6	2	2	5	9	0
1305:	3	1	7	6	4	3	4	2
1313:	1	6	4	3	1	3	6	3
1321:	3	2	1	5	5	1	1	3
1329:	3	3	3	5	2	4	7	6
1337:	4	3	1	2	3	1	4	2
1345:	2	5	5	1	5	8	2	3
1353:	1	1	1	6	2	5	2	1
1361:	2	3	2	0	3	0	1	0
1369:	2	2	2	2	0	3	3	3
1377:	2	9	6	3	4	3	3	2
1385:	5	2	5	3	1	1	0	1

1393:	2	6	3	0	4	3	3	3
1401:	5	4	4	3	1	3	2	2
1409:	2	4	1	0	4	5	2	3
1417:	4	1	3	1	1	2	3	4
1425:	2	3	2	3	4	1	0	5
1433:	3	1	0	2	3	3	2	2
1441:	2	0	5	1	4	1	1	0
1449:	0	0	1	1	4	4	1	2
1457:	1	4	25	48	61	54	9	4
1465:	2	2	0	4	2	3	2	1
1473:	2	1	2	1	2	2	1	1
1481:	3	0	1	3	3	2	1	0
1489:	1	3	2	2	2	3	1	4
1497:	6	0	2	2	2	4	3	4
1505:	2	2	0	3	0	2	1	4
1513:	4	2	5	3	4	3	3	2
1521:	1	2	2	2	0	0	5	2
1529:	1	2	3	3	1	2	1	1
1537:	4	3	1	2	0	1	1	0
1545:	4	0	1	0	2	4	2	0
1553:	3	1	1	3	1	2	0	3
1561:	2	0	2	1	0	0	2	0
1569:	1	2	1	0	2	3	1	1
1577:	1	2	0	5	2	2	3	4
1585:	3	2	8	13	6	6	5	13
1593:	7	5	3	0	5	1	2	2
1601:	3	3	4	0	1	3	1	2
1609:	0	0	1	2	0	0	6	2
1617:	2	0	0	4	7	5	1	0
1625:	4	1	1	1	1	6	6	4
1633:	2	1	0	5	2	2	3	0
1641:	1	1	2	0	0	1	5	1
1649:	2	2	1	2	0	2	0	0
1657:	1	1	1	4	1	1	1	4
1665:	0	1	2	1	1	0	0	0
1673:	3	0	0	0	0	1	0	0
1681:	4	1	5	0	3	2	2	0
1689:	1	0	2	2	1	2	1	1
1697:	3	0	1	0	0	0	1	1
1705:	1	1	1	2	0	0	2	2
1713:	0	1	3	1	1	2	0	1
1721:	4	0	0	1	1	3	0	4
1729:	5	1	0	1	2	1	1	3
1737:	0	2	1	1	2	1	1	1
1745:	1	1	1	1	3	2	1	3
1753:	2	2	1	1	0	2	2	1
1761:	0	1	5	11	12	4	0	0
1769:	1	0	1	3	5	0	1	1
1777:	1	2	1	1	2	2	0	3
1785:	0	1	1	2	0	2	3	1
1793:	1	1	2	3	1	3	1	0
1801:	1	1	2	2	0	0	3	1
1809:	2	0	1	0	0	0	0	2
1817:	2	1	0	1	2	0	2	1
1825:	2	0	1	1	0	0	2	1
1833:	1	2	3	1	0	3	2	1
1841:	2	1	1	1	0	3	2	6
1849:	1	2	1	0	0	1	0	0
1857:	1	1	1	2	1	1	1	0
1865:	1	1	1	3	1	0	0	2

1873:	1	1	1	1	0	0	1	2
1881:	2	0	2	1	1	0	0	0
1889:	1	1	2	1	1	2	1	0
1897:	3	1	1	0	3	1	1	0
1905:	0	0	1	1	2	0	1	1
1913:	2	2	1	3	1	1	0	3
1921:	4	1	0	1	1	0	1	2
1929:	2	3	1	1	0	0	2	1
1937:	1	1	0	0	1	0	1	1
1945:	5	2	0	1	1	0	2	0
1953:	1	1	0	1	1	0	0	2
1961:	2	3	0	2	1	0	3	0
1969:	1	0	0	2	2	2	1	1
1977:	0	2	2	1	0	0	3	0
1985:	5	2	3	1	0	2	1	2
1993:	0	1	0	1	0	1	0	0
2001:	2	1	1	2	0	0	2	0
2009:	0	0	2	3	1	1	3	1
2017:	1	1	2	1	0	1	1	2
2025:	1	1	1	2	0	0	1	0
2033:	4	2	1	0	1	1	2	1
2041:	0	2	0	1	0	0	4	2
2049:	1	1	1	3	3	1	0	0
2057:	0	1	1	2	1	1	0	1
2065:	1	1	3	1	1	3	2	2
2073:	1	3	2	0	4	1	2	2
2081:	0	1	2	0	2	2	0	1
2089:	2	0	0	3	1	0	1	3
2097:	1	2	0	0	6	6	8	6
2105:	5	2	4	1	2	0	2	2
2113:	0	0	5	1	2	0	2	0
2121:	3	2	0	0	1	2	5	2
2129:	0	3	0	0	0	1	2	1
2137:	0	0	1	1	2	1	1	2
2145:	0	3	1	1	2	1	0	0
2153:	1	0	0	1	3	1	1	0
2161:	1	1	4	0	3	1	0	1
2169:	1	0	2	1	1	1	4	1
2177:	3	2	1	1	1	3	2	2
2185:	0	3	2	0	2	0	2	3
2193:	1	0	1	3	2	1	0	2
2201:	2	1	1	6	3	3	2	2
2209:	0	2	1	3	0	0	3	1
2217:	1	1	1	0	1	1	1	1
2225:	4	0	1	2	3	0	2	1
2233:	1	1	2	0	0	0	1	3
2241:	0	3	1	2	3	2	3	3
2249:	2	2	1	1	1	1	0	0
2257:	3	1	1	1	2	3	0	0
2265:	2	1	1	1	1	2	2	4
2273:	3	3	3	2	0	2	1	1
2281:	2	3	0	1	0	3	0	1
2289:	1	1	4	0	1	1	3	1
2297:	1	3	0	2	2	1	3	1
2305:	2	1	1	1	0	2	2	3
2313:	1	1	1	1	0	1	1	1
2321:	5	1	4	3	2	1	0	3
2329:	2	3	1	0	0	1	3	1
2337:	1	1	2	1	0	1	1	2
2345:	3	0	1	3	0	0	2	5

2353:	2	1	2	1	2	2	1	2
2361:	3	1	0	3	0	2	1	2
2369:	1	4	1	2	2	2	1	3
2377:	1	3	3	3	1	3	5	1
2385:	0	1	1	0	2	1	4	0
2393:	2	1	2	0	0	2	1	3
2401:	1	2	3	0	0	1	2	3
2409:	3	3	1	1	1	1	1	0
2417:	2	2	3	1	2	1	0	2
2425:	0	1	0	1	0	1	0	0
2433:	0	1	2	1	2	0	0	1
2441:	1	2	2	0	1	0	2	1
2449:	0	0	3	2	1	1	2	0
2457:	0	0	1	0	0	0	1	0
2465:	1	0	1	0	0	1	1	0
2473:	0	1	1	0	0	0	3	0
2481:	0	0	2	1	1	0	0	1
2489:	0	0	0	2	2	0	0	1
2497:	2	0	0	1	0	0	0	0
2505:	5	0	1	0	0	0	2	0
2513:	1	0	2	0	3	0	0	0
2521:	0	0	0	3	1	0	0	1
2529:	0	0	0	0	1	0	0	1
2537:	0	1	0	2	0	1	0	0
2545:	0	0	0	0	1	0	1	1
2553:	0	0	0	1	0	1	3	0
2561:	1	1	0	0	0	0	0	1
2569:	1	1	0	1	1	1	0	0
2577:	1	1	1	0	0	0	1	1
2585:	0	0	1	0	0	1	0	1
2593:	0	1	1	1	1	0	2	1
2601:	0	0	0	0	0	1	0	1
2609:	0	0	1	4	11	34	32	26
2617:	4	0	1	0	0	0	0	0
2625:	0	0	0	0	0	0	0	1
2633:	1	1	0	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	1	0	0	0
2657:	0	0	1	0	0	1	1	0
2665:	0	0	0	0	1	0	1	0
2673:	1	0	0	0	0	0	1	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	0	0	0	1	3
2697:	0	1	0	0	1	0	1	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	0	0	0	0	0
2721:	1	1	0	0	0	0	0	1
2729:	0	0	0	0	2	0	1	0
2737:	0	0	2	0	0	0	0	0
2745:	0	0	1	0	0	0	1	1
2753:	0	0	1	0	0	1	0	0
2761:	0	0	1	0	0	0	0	0
2769:	0	0	0	0	0	0	0	0
2777:	0	0	0	1	0	0	0	0
2785:	0	1	0	0	0	0	0	0
2793:	1	1	1	0	1	0	0	1
2801:	0	1	1	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	1	1	0	1	0
2825:	0	0	0	0	1	1	0	0

2833:	1	0	0	0	0	0	0	0
2841:	0	0	0	0	1	0	0	0
2849:	0	0	0	1	0	0	0	0
2857:	0	0	0	0	0	0	1	0
2865:	0	0	0	0	2	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	0	0	0	0	1	0
2889:	1	0	0	1	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	1	0	0	0
2913:	0	0	0	0	1	0	0	0
2921:	1	1	0	0	1	0	0	1
2929:	0	1	0	0	0	1	1	0
2937:	1	0	1	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	1	0	0	0
2961:	0	0	0	0	0	0	0	0
2969:	0	1	0	0	0	3	0	0
2977:	0	2	0	0	0	0	0	1
2985:	0	0	0	0	1	0	0	0
2993:	1	0	1	0	0	0	0	0
3001:	0	0	0	0	1	0	0	0
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	0	0	1
3025:	0	0	0	0	0	0	1	1
3033:	0	0	0	1	1	0	0	0
3041:	1	0	0	0	0	2	0	0
3049:	0	0	0	0	1	1	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	0	1	0	0	0
3073:	0	0	1	0	0	1	0	0
3081:	0	0	0	0	1	0	0	1
3089:	1	0	0	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	1	0	0
3113:	0	1	0	0	0	1	1	0
3121:	0	0	0	0	0	0	1	0
3129:	1	0	0	0	0	0	0	0
3137:	0	0	0	0	0	1	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	0	0	0
3201:	1	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	1	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	0	0	0	0	0
3265:	1	0	0	1	0	0	1	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	1	0	0	0
3289:	0	1	0	0	0	0	1	0
3297:	0	1	0	0	0	1	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	1	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	1
3345:	0	0	1	0	0	0	0	0
3353:	0	0	0	0	0	0	0	2
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	1	0	0	0
3393:	0	0	0	0	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	1
3417:	1	0	0	0	0	0	0	0
3425:	0	0	1	0	0	0	0	0
3433:	2	0	0	1	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	1	0	0	0
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	1	0	0
3497:	0	0	0	0	0	0	1	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	1	0	0	0	1	0	1
3529:	0	0	1	2	0	1	0	1
3537:	0	0	0	0	2	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	1	0	0	0	1	0
3561:	0	0	0	1	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	1	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	1
3617:	0	0	0	2	0	0	0	0
3625:	1	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	1	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	1	0	0	0	0	0	0
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	0	0	0	0	1	0
3697:	0	0	0	0	1	0	0	1
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	1	1	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	1

3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0
3825:	1	0	0	0	0	0	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	0	1	0	1	0	0	0
3865:	1	0	1	0	0	1	0	0
3873:	1	0	0	0	2	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	2	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	1
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	1
3929:	0	0	0	0	0	0	1	0
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	0	1	0	0
3953:	0	0	1	0	0	0	0	0
3961:	0	0	0	1	0	0	1	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	1	0	0	0	0	0
3985:	0	0	0	0	1	0	1	0
3993:	1	0	0	0	0	0	0	0
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	1	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	1
4057:	0	0	1	0	0	0	0	0
4065:	1	0	0	0	0	1	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

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Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

VAX/VMS Peak Search Report Generated 9-JUL-2010 07:33:17.86

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606107_GE1_GAS1002_151294.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-4
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 06:33:00.
Sample ID : 1006061-07 Sample Quantity : 4.97230E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:02.21 0.1%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.24*	101	803	1.19	45.66	43	6	91.9		PB-210
0	62.87*	209	1751	1.73	62.31	58	9	74.0		TH-234
0	76.26*	1978	2559	3.82	75.71	69	12	11.2		
10	87.44	965	1726	5.22	86.90	82	14	17.0	1.43E+01	NP-237
										SN-126
										CD-109
10	92.91*	470	903	1.95	92.37	82	14	24.1		
0	130.31	189	880	1.75	129.80	126	8	56.5		
0	163.11*	59	487	2.55	162.62	161	5	116.7		
0	186.06*	309	991	1.45	185.59	181	10	40.3		RA-226
0	209.98	84	488	1.04	209.53	207	6	87.1		
5	237.15	261	647	2.87	236.72	232	14	43.6	8.41E+01	PB-212
5	241.68*	553	607	2.87	241.24	232	14	21.2		RA-224
0	259.57	79	456	4.12	259.15	254	9	100.8		
0	271.06	84	539	2.64	270.65	266	9	102.4		LU-173
4	292.47	104	250	1.68	292.08	290	10	54.2	4.82E+00	
4	295.62*	671	308	1.67	295.23	290	10	11.0		PB-214
0	327.10	64	325	3.66	326.73	324	8	100.5		
0	338.95	182	398	1.91	338.59	335	9	42.4		AC-228
4	349.31	118	258	2.18	348.96	346	12	71.6	8.02E+00	
4	352.37*	1259	219	1.86	352.02	346	12	6.9		PB-214
0	403.16	223	504	17.59	402.84	392	21	52.1		RN-219
0	463.37*	55	240	1.53	463.10	458	9	105.6		
0	510.99*	158	253	2.12	510.76	505	12	45.2		
0	563.17	44	116	2.23	562.97	559	8	89.2		
0	583.22*	395	155	1.96	583.04	577	10	15.6		TL-208
1	609.40*	1102	134	2.58	609.23	603	15	6.7	4.00E+01	BI-214
1	613.39	30	132	2.58	613.23	603	15	233.0		
0	643.34	29	105	3.13	643.21	640	7	122.9		
0	665.09	72	122	1.99	664.97	661	10	61.5		
0	727.66	78	131	1.94	727.59	724	9	57.8		BI-212
0	755.02	39	141	2.78	754.96	751	12	124.5		
0	768.58	136	215	1.94	768.53	763	17	52.1		
0	786.69	49	87	2.71	786.66	783	8	72.0		
0	798.55	90	268	11.88	798.53	791	23	95.8		
0	860.44	45	81	1.22	860.46	857	8	75.7		TL-208

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Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	911.83*	236	129	2.15	911.88	907	11	23.0		AC-228
0	935.14	67	122	2.06	935.21	929	12	70.7		
2	964.49	54	72	2.72	964.59	962	13	57.1	3.35E+00	
2	969.39	192	105	2.58	969.49	962	13	23.3		AC-228
0	1120.84	230	110	1.62	1121.05	1116	10	21.5		BI-214
0	1155.05	36	106	2.60	1155.29	1151	11	114.6		
0	1189.58	30	64	2.40	1189.84	1185	8	98.8		
0	1238.44	98	132	2.37	1238.74	1232	12	50.9		
0	1284.28	26	58	3.26	1284.62	1281	9	110.1		
0	1378.67	66	48	2.22	1379.07	1373	12	48.3		
2	1400.60	20	20	3.14	1401.02	1397	17	93.3	1.42E+00	
2	1408.21	24	35	3.14	1408.63	1397	17	97.5		
0	1461.02*	1178	39	2.30	1461.48	1455	13	6.2		K-40
0	1511.80	37	32	3.12	1512.29	1506	14	78.8		
0	1523.21	14	7	3.59	1523.72	1520	7	83.7		
0	1705.73	12	6	2.67	1706.37	1701	9	97.4		
0	1730.05	35	14	2.15	1730.71	1725	11	52.6		
0	1764.60*	169	21	2.04	1765.28	1759	12	18.9		BI-214
0	1806.02*	9	5	4.62	1806.74	1802	9	116.0		
0	1847.53	28	7	2.16	1848.28	1842	10	52.6		
0	2010.45	11	2	3.68	2011.31	2007	8	74.7		
0	2104.00	22	2	4.17	2104.94	2100	9	49.1		
0	2129.49	7	6	1.68	2130.44	2127	6	141.0		
0	2203.87*	54	10	1.60	2204.87	2198	14	37.8		BI-214
0	2614.41*	119	0	2.47	2615.71	2610	12	18.8		TL-208
0	3196.55	7	0	2.09	3198.29	3195	7	75.6		

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

Total number of lines in spectrum	60	
Number of unidentified lines	25	
Number of lines tentatively identified by NID	35	58.33%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.303E+01	3.303E+01	0.424E+01	12.83	
TL-208	1.41E+10Y	1.00	1.568E+00	1.568E+00	0.229E+00	14.63	
PB-210	22.26Y	1.00	1.657E+00	1.663E+00	1.542E+00	92.76	
BI-212	1.41E+10Y	1.00	1.161E+00	1.161E+00	0.684E+00	58.91	
PB-212	1.41E+10Y	1.00	4.345E-01	4.345E-01	1.953E-01	44.95	
BI-214	1602.00Y	1.00	3.672E+00	3.672E+00	0.366E+00	9.96	
PB-214	1602.00Y	1.00	3.173E+00	3.173E+00	0.321E+00	10.13	
RN-219	3.28E+04Y	1.00	3.719E+00	3.719E+00	1.973E+00	53.06	
RA-224	1.41E+10Y	1.00	1.046E+01	1.046E+01	0.251E+01	23.98	
RA-226	1602.00Y	1.00	6.056E+00	6.056E+00	11.36E+00	187.57	
AC-228	1.41E+10Y	1.00	1.931E+00	1.931E+00	0.322E+00	16.65	
TH-234	4.47E+09Y	1.00	3.109E+00	3.109E+00	2.334E+00	75.08	
			---	---			
	Total Activity :		6.996E+01	6.997E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	1.373E+01	1.452E+01	0.432E+01	29.78	
SN-126	1.00E+05Y	1.00	1.381E+00	1.381E+00	0.401E+00	29.01	
NP-237	2.14E+06Y	1.00	4.057E+00	4.057E+00	1.160E+00	28.60	
			---	---			
	Total Activity :		1.917E+01	1.996E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
LU-173	1.37Y	1.05	3.195E-01	3.364E-01	3.468E-01	103.08	
			---	---			
	Total Activity :		3.195E-01	3.364E-01			

Grand Total Activity : 8.945E+01 9.026E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	3.303E+01	3.303E+01	12.83	OK
	Final Mean for 1 Valid Peaks = 3.303E+01+/- 4.238E+00 (12.83%)						
TL-208	583.14	30.22*	1.026E+00	1.925E+00	1.925E+00	19.42	OK
	860.37	4.48	7.447E-01	2.023E+00	2.023E+00	76.28	OK
	2614.66	35.85	3.778E-01	1.328E+00	1.328E+00	22.27	OK
	Final Mean for 3 Valid Peaks = 1.568E+00+/- 2.294E-01 (14.63%)						
PB-210	46.50	4.05*	2.273E+00	1.657E+00	1.663E+00	92.76	OK
	Final Mean for 1 Valid Peaks = 1.663E+00+/- 1.542E+00 (92.76%)						
BI-212	727.17	11.80*	8.541E-01	1.161E+00	1.161E+00	58.91	OK
	1620.62	2.75	4.729E-01	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 1.161E+00+/- 6.840E-01 (58.91%)						
PB-212	238.63	44.60*	2.033E+00	4.345E-01	4.345E-01	44.95	OK
	300.09	3.41	1.740E+00	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 4.345E-01+/- 1.953E-01 (44.95%)						
BI-214	609.31	46.30*	9.893E-01	3.632E+00	3.632E+00	13.50	OK
	1120.29	15.10	6.070E-01	3.795E+00	3.795E+00	23.40	OK
	1764.49	15.80	4.502E-01	3.588E+00	3.588E+00	21.68	OK
	2204.22	4.98	4.030E-01	4.050E+00	4.050E+00	39.40	OK
	Final Mean for 4 Valid Peaks = 3.672E+00+/- 3.659E-01 (9.96%)						
PB-214	295.21	19.19	1.761E+00	2.998E+00	2.998E+00	16.22	OK
	351.92	37.19*	1.545E+00	3.309E+00	3.309E+00	12.94	OK
	Final Mean for 2 Valid Peaks = 3.173E+00+/- 3.214E-01 (10.13%)						
RN-219	401.80	6.50*	1.393E+00	3.719E+00	3.719E+00	53.06	OK
	Final Mean for 1 Valid Peaks = 3.719E+00+/- 1.973E+00 (53.06%)						
RA-224	240.98	3.95*	2.021E+00	1.046E+01	1.046E+01	23.98	OK
	Final Mean for 1 Valid Peaks = 1.046E+01+/- 2.507E+00 (23.98%)						
RA-226	186.21	3.28*	2.345E+00	6.056E+00	6.056E+00	187.57	OK
	Final Mean for 1 Valid Peaks = 6.056E+00+/- 1.136E+01 (187.57%)						
AC-228	338.32	11.40	1.592E+00	1.513E+00	1.513E+00	43.86	OK

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
	911.07	27.70*	7.115E-01	1.809E+00	1.809E+00	24.73	OK
	969.11	16.60	6.778E-01	2.583E+00	2.583E+00	25.01	OK
Final Mean for 3 Valid Peaks = 1.931E+00+/- 3.216E-01 (16.65%)							
TH-234	63.29	3.80*	2.676E+00	3.109E+00	3.109E+00	75.08	OK
Final Mean for 1 Valid Peaks = 3.109E+00+/- 2.334E+00 (75.08%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	2.851E+00	1.373E+01	1.452E+01	29.78	OK
Final Mean for 1 Valid Peaks = 1.452E+01+/- 4.324E+00 (29.78%)							
SN-126	87.57	37.00*	2.851E+00	1.381E+00	1.381E+00	29.01	OK
Final Mean for 1 Valid Peaks = 1.381E+00+/- 4.006E-01 (29.01%)							
NP-237	86.50	12.60*	2.849E+00	4.057E+00	4.057E+00	28.60	OK
Final Mean for 1 Valid Peaks = 4.057E+00+/- 1.160E+00 (28.60%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
LU-173	100.72	5.24	2.842E+00	----- Line Not Found		-----	Absent
	272.11	21.20*	1.864E+00	3.195E-01	3.364E-01	103.08	OK
Final Mean for 1 Valid Peaks = 3.364E-01+/- 3.468E-01 (103.08%)							

Flag: "*" = Keyline

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	3.303E+01	4.238E+00	7.827E-01	8.197E-02	42.197
CD-109	1.452E+01	4.324E+00	2.222E+00	5.365E-01	6.533
SN-126	1.381E+00	4.006E-01	2.113E-01	4.899E-02	6.534
LU-173	3.364E-01	3.468E-01	3.954E-01	4.428E-02	0.851
TL-208	1.568E+00	2.294E-01	2.726E-01	2.962E-02	5.754
PB-210	1.663E+00	1.542E+00	2.236E+00	2.584E-01	0.744
BI-212	1.161E+00	6.840E-01	7.981E-01	8.525E-02	1.455
PB-212	4.345E-01	1.953E-01	1.665E-01	1.716E-02	2.609
BI-214	3.672E+00	3.659E-01	1.820E-01	2.004E-02	20.178
PB-214	3.173E+00	3.214E-01	2.089E-01	2.134E-02	15.192
RN-219	3.719E+00	1.973E+00	1.212E+00	1.123E-01	3.068
RA-224	1.046E+01	2.507E+00	1.893E+00	1.962E-01	5.525
RA-226	6.056E+00	1.136E+01	2.301E+00	4.214E+00	2.632
AC-228	1.931E+00	3.216E-01	3.607E-01	2.930E-02	5.355
TH-234	3.109E+00	2.334E+00	2.355E+00	2.781E-01	1.320
NP-237	4.057E+00	1.160E+00	6.208E-01	1.407E-01	6.535

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	5.555E-01		7.236E-01	1.251E+00	1.257E-01	0.444
NA-22	-6.173E-03		6.780E-02	1.054E-01	1.002E-02	-0.059
AL-26	1.483E-02		3.446E-02	6.512E-02	6.308E-03	0.228
TI-44	-5.294E-02		8.735E-02	9.981E-02	1.390E-02	-0.530
SC-46	-6.484E-02		6.871E-02	1.140E-01	9.430E-03	-0.569
V-48	1.371E-02		2.594E-01	4.671E-01	3.844E-02	0.029
CR-51	-4.081E-02		1.256E+00	1.851E+00	2.076E-01	-0.022
MN-54	3.162E-02		6.332E-02	1.155E-01	1.066E-02	0.274
CO-56	-9.551E-02		7.681E-02	1.244E-01	1.124E-02	-0.768
CO-57	-5.475E-02		6.240E-02	8.939E-02	8.603E-03	-0.612
CO-58	1.468E-02		8.679E-02	1.385E-01	1.334E-02	0.106
FE-59	2.539E-02		1.824E-01	3.287E-01	2.957E-02	0.077
CO-60	-1.137E-02		6.413E-02	1.124E-01	9.228E-03	-0.101
ZN-65	8.494E-03		1.710E-01	2.668E-01	2.207E-02	0.032
SE-75	-8.333E-03		1.266E-01	1.461E-01	1.614E-02	-0.057
RB-82	-2.673E-01		1.485E+00	1.934E+00	1.953E-01	-0.138
RB-83	2.998E-02		1.466E-01	2.206E-01	3.684E-02	0.136
KR-85	5.597E+01		1.558E+01	2.613E+01	2.710E+00	2.142
SR-85	3.621E-01		1.008E-01	1.691E-01	1.754E-02	2.142
Y-88	4.396E-03		4.145E-02	7.358E-02	7.070E-03	0.060
NB-93M	-4.794E+01		2.411E+01	3.029E+00	1.507E+00	-15.827
NB-94	-2.865E-02		5.677E-02	9.001E-02	7.749E-03	-0.318
NB-95	4.138E-01		1.768E-01	2.581E-01	2.644E-02	1.603
ZR-95	2.080E-01		1.526E-01	2.651E-01	2.940E-02	0.784
RU-103	-2.657E-02		9.666E-02	1.579E-01	2.400E-02	-0.168
RU-106	-3.954E-02		5.785E-01	9.076E-01	1.367E-01	-0.044
AG-108M	-1.117E-02		6.630E-02	1.027E-01	1.101E-02	-0.109

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
AG-110M	3.146E-02		5.958E-02	9.840E-02	1.105E-02	0.320
SN-113	5.931E-02		9.705E-02	1.488E-01	1.400E-02	0.399
TE123M	-7.521E-02		7.679E-02	1.090E-01	9.482E-03	-0.690
SB-124	5.050E-02		8.629E-02	1.412E-01	1.551E-02	0.358
I-125	-3.921E-01		1.428E+00	2.389E+00	3.500E-01	-0.164
SB-125	-6.257E-02		1.717E-01	2.786E-01	2.705E-02	-0.225
SB-126	-1.391E-01		9.102E-01	1.411E+00	1.517E-01	-0.099
I-129	-9.319E-02		1.261E-01	2.068E-01	3.720E-02	-0.451
I-131	-1.083E+00		1.394E+00	2.216E+00	2.197E-01	-0.489
BA-133	7.301E-01		1.516E-01	2.027E-01	2.883E-02	3.602
CS-134	1.254E-01		6.538E-02	1.124E-01	1.237E-02	1.116
CS-135	6.169E-01		3.486E-01	5.070E-01	5.624E-02	1.217
CS-136	1.955E-03		5.135E-01	9.159E-01	7.839E-02	0.002
CS-137	3.506E-02		6.165E-02	1.020E-01	1.148E-02	0.344
LA-138	-1.133E-02		6.190E-02	1.118E-01	1.149E-02	-0.101
CE-139	4.583E-02		7.399E-02	1.119E-01	9.532E-03	0.410
BA-140	2.228E-01		1.457E+00	2.439E+00	8.219E-01	0.091
LA-140	-2.806E-01		4.187E-01	6.985E-01	7.081E-02	-0.402
CE-141	2.324E-01		2.169E-01	3.539E-01	9.615E-02	0.657
CE-144	4.856E-01		4.887E-01	7.467E-01	6.965E-02	0.650
PM-144	-2.571E-02		5.659E-02	9.874E-02	1.085E-02	-0.260
PM-145	-1.575E-01		2.906E-01	4.502E-01	2.973E-01	-0.350
PM-146	-9.492E-02		1.380E-01	1.922E-01	1.889E-02	-0.494
ND-147	-8.962E-01		3.796E+00	6.211E+00	6.526E-01	-0.144
EU-152	4.702E-01	+	4.622E-01	7.591E-01	9.313E-02	0.619
GD-153	-2.088E-02		2.156E-01	3.582E-01	6.168E-02	-0.058
EU-154	-1.845E-02		1.871E-01	2.907E-01	2.762E-02	-0.063
EU-155	1.678E+00	+	4.799E-01	3.364E-01	7.623E-02	4.988
EU-156	-6.986E-01		3.155E+00	4.857E+00	1.128E+00	-0.144
HO-166M	7.658E-02		9.640E-02	1.784E-01	1.934E-02	0.429
HF-172	3.505E-01		4.385E-01	6.670E-01	6.349E-02	0.525
LU-172	-1.261E+00		4.624E+00	8.056E+00	6.662E-01	-0.157
HF-175	1.231E-02		1.141E-01	1.332E-01	1.386E-02	0.092
LU-176	-6.209E-02		4.877E-02	7.549E-02	8.347E-03	-0.822
TA-182	2.060E+00	+	4.820E-01	7.582E-01	6.261E-02	2.716
IR-192	9.529E-02		1.496E-01	2.314E-01	2.305E-02	0.412
HG-203	7.785E-02		1.144E-01	1.742E-01	2.017E-02	0.447
BI-207	3.327E-02		5.390E-02	8.395E-02	9.051E-03	0.396
BI-210M	9.476E-02		1.293E-01	1.590E-01	1.737E-02	0.596
PB-211	9.396E-01		1.696E+00	2.875E+00	2.675E-01	0.327
RA-223	1.416E-01		1.266E+00	1.882E+00	2.029E-01	0.075
RA-225	6.912E-01		1.130E+00	1.734E+00	2.261E-01	0.399
TH-227	1.673E+00	+	7.519E-01	1.032E+00	1.056E-01	1.622
TH-230	-1.425E+01		2.228E+01	2.541E+01	3.514E+00	-0.561
PA-231	-2.895E-01		2.352E+00	3.439E+00	3.823E-01	-0.084
TH-231	-1.579E+01		3.682E+00	1.000E+00	2.219E-01	-15.790
PA-233	1.008E-01		2.883E-01	4.844E-01	1.137E-01	0.208
PA-234	5.172E-01	+	2.969E-01	3.810E-01	3.576E-02	1.357

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234M	1.807E+00		5.977E+00	1.102E+01	9.091E-01	0.164
U-235	4.105E-01		4.378E-01	7.334E-01	1.301E-01	0.560
AM-241	3.350E-01		1.693E-01	2.612E-01	2.627E-02	1.282
AM-243	1.366E+00		2.700E-01	2.121E-01	3.618E-02	6.443
CM-243	4.691E-02		3.798E-01	5.627E-01	6.385E-02	0.083

Sample ID : 1006061-07 Acquisition date : 9-JUL-2010 06:33:00

Total number of lines in spectrum	60	
Number of unidentified lines	25	
Number of lines tentatively identified by NID	35	58.33%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.303E+01	3.303E+01	0.424E+01	12.83	
TL-208	1.41E+10Y	1.00	1.568E+00	1.568E+00	0.229E+00	14.63	
PB-210	22.26Y	1.00	1.657E+00	1.663E+00	1.542E+00	92.76	
BI-212	1.41E+10Y	1.00	1.161E+00	1.161E+00	0.684E+00	58.91	
PB-212	1.41E+10Y	1.00	4.345E-01	4.345E-01	1.953E-01	44.95	
BI-214	1602.00Y	1.00	3.672E+00	3.672E+00	0.366E+00	9.96	
PB-214	1602.00Y	1.00	3.173E+00	3.173E+00	0.321E+00	10.13	
RN-219	3.28E+04Y	1.00	3.719E+00	3.719E+00	1.973E+00	53.06	
RA-224	1.41E+10Y	1.00	1.046E+01	1.046E+01	0.251E+01	23.98	
RA-226	1602.00Y	1.00	6.056E+00	6.056E+00	11.36E+00	187.57	
AC-228	1.41E+10Y	1.00	1.931E+00	1.931E+00	0.322E+00	16.65	
TH-234	4.47E+09Y	1.00	3.109E+00	3.109E+00	2.334E+00	75.08	
			---	---			
	Total Activity :		6.996E+01	6.997E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	1.373E+01	1.452E+01	0.432E+01	29.78	
SN-126	1.00E+05Y	1.00	1.381E+00	1.381E+00	0.401E+00	29.01	
NP-237	2.14E+06Y	1.00	4.057E+00	4.057E+00	1.160E+00	28.60	
			---	---			
	Total Activity :		1.917E+01	1.996E+01			

Nuclide Type : ACTIVATION

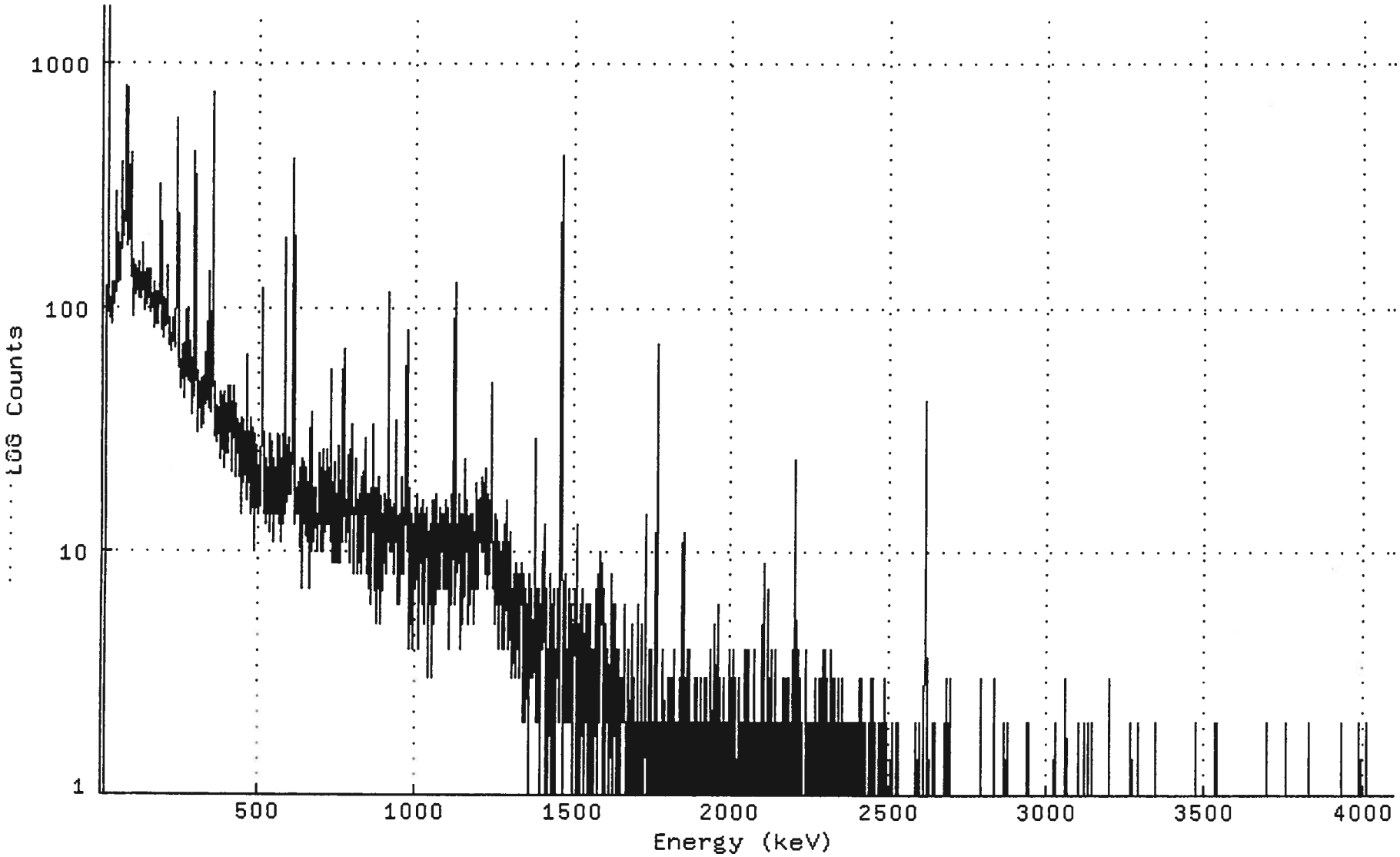
Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
LU-173	1.37Y	1.05	3.195E-01	3.364E-01	3.468E-01	103.08	
			---	---			
	Total Activity :		3.195E-01	3.364E-01			

Grand Total Activity : 8.945E+01 9.026E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606107_GE1_GAS1002_151294.CNF;1
Title :
Sample Title: S-4

Start Time: 9-JUL-2010 06:33:	Sample Time: 2-JUN-2010 00:00:	Energy Offset: 6.08450E-01
Real Time : 0 01:00:02.21	Sample ID : 1006061-07	Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00	Sample Type: SOIL	Energy Quad : 0.00000E+00



0160

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606107_GE1_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	105
17:	137	121	182	1722	253	94	103	107
25:	107	99	89	92	87	89	125	102
33:	116	85	117	114	104	112	112	116
41:	133	122	114	115	176	290	137	125
49:	167	155	129	168	169	166	127	162
57:	181	157	185	196	216	316	387	199
65:	194	218	216	244	200	223	221	258
73:	279	619	506	783	776	273	221	201
81:	208	180	248	267	188	328	373	239
89:	262	253	226	430	346	176	131	144
97:	128	154	155	137	92	138	122	146
105:	141	133	112	118	117	128	131	141
113:	126	136	151	116	125	107	107	110
121:	108	116	108	136	122	115	116	144
129:	183	140	130	135	106	101	133	112
137:	96	135	101	110	125	119	141	141
145:	113	127	127	107	112	122	95	108
153:	128	141	105	99	111	107	110	104
161:	108	118	125	117	82	102	99	97
169:	114	89	85	110	107	101	98	85
177:	110	95	114	101	101	119	113	101
185:	168	311	161	102	91	93	102	83
193:	75	92	95	94	81	108	84	90
201:	91	99	95	91	121	102	91	87
209:	147	85	89	73	70	87	81	71
217:	78	75	66	68	67	73	83	90
225:	79	73	72	88	80	69	75	74
233:	68	78	119	137	104	459	587	193
241:	200	237	138	57	56	74	49	58
249:	57	56	46	55	63	50	50	61
257:	68	68	71	66	51	50	42	43
265:	64	51	64	56	61	97	98	85
273:	56	55	69	49	68	72	61	50
281:	50	60	60	38	36	59	53	61
289:	48	43	65	106	84	123	437	276
297:	70	52	57	88	57	42	54	44
305:	40	31	42	48	43	48	38	42
313:	47	32	47	33	50	42	36	37
321:	39	42	33	36	51	40	64	65
329:	50	40	43	48	54	55	41	46
337:	55	138	124	46	48	44	38	45
345:	37	37	38	47	94	73	289	744
353:	262	74	49	43	37	35	48	39
361:	31	28	39	36	28	37	32	33
369:	38	37	34	36	33	30	41	36
377:	32	44	24	26	41	43	36	33
385:	26	39	30	33	44	37	22	26
393:	33	38	40	34	29	25	25	31
401:	42	47	30	37	37	35	38	31
409:	47	42	39	21	27	34	37	28
417:	32	32	35	29	36	47	26	29
425:	40	20	29	34	28	34	30	25

433:	33	31	32	20	28	24	33	21
441:	21	30	21	35	14	24	26	34
449:	31	26	19	24	23	31	28	22
457:	29	27	25	16	41	41	63	37
465:	28	20	31	19	20	30	29	19
473:	22	14	27	35	24	21	23	32
481:	22	15	26	18	27	27	30	25
489:	10	27	19	26	15	23	26	19
497:	16	15	17	21	14	16	23	21
505:	19	22	22	33	39	80	117	61
513:	36	26	19	25	19	14	21	22
521:	13	21	23	24	13	19	15	14
529:	20	17	22	12	30	23	18	22
537:	28	14	22	20	19	28	18	11
545:	16	24	16	23	20	21	18	14
553:	16	22	14	16	16	16	14	17
561:	15	30	29	21	21	13	15	17
569:	23	23	19	20	24	11	19	18
577:	13	25	22	30	26	46	193	158
585:	31	14	17	23	21	17	27	17
593:	19	29	18	18	21	17	20	18
601:	25	17	17	19	26	32	42	80
609:	401	395	98	19	29	17	15	13
617:	17	16	17	14	18	16	18	17
625:	19	18	15	14	22	11	20	13
633:	17	15	7	11	21	24	13	17
641:	16	21	22	23	18	17	13	22
649:	19	13	17	15	12	11	16	16
657:	17	19	18	7	14	19	15	18
665:	28	37	18	16	19	10	17	18
673:	11	18	13	17	17	14	14	18
681:	17	18	15	10	12	14	13	11
689:	13	13	20	24	23	25	16	14
697:	10	22	11	14	17	18	26	10
705:	16	14	15	20	16	21	12	19
713:	13	26	19	14	20	16	13	21
721:	22	13	16	13	14	15	55	44
729:	26	13	17	11	18	19	9	14
737:	17	13	13	20	9	17	15	23
745:	10	17	9	13	9	12	12	15
753:	9	23	27	23	16	11	9	9
761:	14	12	11	19	11	16	27	45
769:	67	26	16	16	15	17	11	16
777:	13	11	14	13	19	12	12	12
785:	22	24	26	11	18	11	9	15
793:	17	16	33	19	24	15	13	11
801:	8	9	15	15	15	24	21	14
809:	14	18	13	10	10	16	8	13
817:	17	12	11	9	10	15	11	11
825:	14	20	13	16	8	12	12	13
833:	14	16	19	24	16	15	14	14
841:	29	10	9	8	15	13	13	15
849:	7	8	16	10	17	15	14	6
857:	10	10	18	14	33	15	14	12
865:	12	18	13	14	12	11	9	5
873:	9	14	15	6	18	13	9	15
881:	7	12	20	14	12	8	9	8
889:	5	9	9	14	9	8	11	10
897:	9	10	12	17	13	11	8	16
905:	16	14	14	11	15	29	90	114

913:	46	13	14	16	10	10	10	13
921:	12	12	11	13	10	15	13	9
929:	13	8	11	14	17	33	34	11
937:	14	16	12	6	13	7	7	7
945:	7	10	6	10	7	14	9	12
953:	8	20	11	15	8	8	11	15
961:	9	14	15	16	35	27	13	43
969:	76	80	34	12	13	10	18	12
977:	10	4	11	5	7	10	9	14
985:	5	10	12	4	9	13	9	13
993:	8	11	8	11	15	7	8	9
1001:	13	17	9	10	17	9	6	14
1009:	4	10	8	13	9	15	10	14
1017:	9	16	12	15	6	15	12	5
1025:	7	9	14	8	14	14	10	15
1033:	15	15	11	8	9	12	5	3
1041:	10	12	9	12	13	12	6	10
1049:	11	3	16	10	10	16	10	11
1057:	12	9	5	9	6	7	7	17
1065:	10	8	11	8	13	7	9	7
1073:	12	9	9	15	12	13	10	11
1081:	11	14	12	13	14	14	7	11
1089:	13	10	13	8	7	10	16	10
1097:	8	7	8	15	10	11	8	8
1105:	4	8	13	8	10	17	16	14
1113:	14	6	14	10	12	14	22	65
1121:	125	41	23	14	14	6	11	13
1129:	11	10	11	10	9	10	11	17
1137:	11	13	9	14	7	10	4	14
1145:	12	10	8	11	14	5	8	12
1153:	8	16	10	24	11	12	16	15
1161:	10	15	13	8	7	11	13	5
1169:	14	6	10	9	8	14	10	11
1177:	11	10	14	7	10	8	11	12
1185:	5	12	11	10	14	19	16	7
1193:	8	7	11	10	9	16	14	11
1201:	11	12	11	12	15	18	10	13
1209:	20	11	12	19	13	19	13	10
1217:	16	19	11	22	13	8	14	7
1225:	10	7	11	17	10	15	16	8
1233:	12	15	12	19	21	34	48	30
1241:	11	11	9	11	7	8	9	8
1249:	12	14	7	5	14	13	10	11
1257:	6	9	8	6	8	11	4	8
1265:	5	10	10	10	6	8	7	9
1273:	7	4	5	9	6	11	9	4
1281:	6	10	9	13	8	16	9	6
1289:	7	8	4	9	9	7	5	10
1297:	12	8	6	10	5	6	3	4
1305:	7	5	6	4	6	6	6	5
1313:	8	4	3	9	8	9	3	5
1321:	8	5	5	4	7	8	8	5
1329:	3	4	5	8	8	9	6	7
1337:	8	8	6	5	8	7	3	2
1345:	5	6	2	4	5	7	5	5
1353:	5	5	3	6	1	5	3	8
1361:	8	8	6	5	6	4	4	3
1369:	5	4	3	4	5	3	4	7
1377:	8	29	29	12	5	2	7	3
1385:	4	6	6	3	5	4	7	2

1393:	2	4	4	4	1	6	5	7
1401:	10	10	8	5	4	8	6	10
1409:	13	8	9	2	2	7	4	3
1417:	1	3	4	4	4	3	1	3
1425:	8	3	3	6	2	3	6	2
1433:	2	4	1	3	6	2	0	7
1441:	2	3	3	1	2	4	3	5
1449:	4	3	5	6	7	2	5	6
1457:	10	20	42	125	401	420	132	31
1465:	13	14	4	1	4	3	2	0
1473:	4	5	4	2	4	8	2	3
1481:	4	4	2	2	4	7	2	4
1489:	4	7	2	4	2	2	4	6
1497:	2	3	0	5	3	2	7	4
1505:	5	6	4	5	8	13	6	9
1513:	1	5	5	4	1	2	0	1
1521:	1	4	6	3	6	0	3	3
1529:	3	3	5	7	3	4	3	4
1537:	1	3	5	5	6	5	2	5
1545:	5	6	2	3	1	1	2	6
1553:	6	1	1	2	3	4	3	3
1561:	3	4	1	2	2	3	2	4
1569:	1	3	3	2	4	2	7	3
1577:	0	1	3	8	5	2	4	5
1585:	10	4	8	8	9	8	5	6
1593:	7	5	2	1	7	2	4	5
1601:	1	3	4	4	2	4	3	2
1609:	4	2	4	3	0	3	0	2
1617:	1	2	2	4	4	8	7	0
1625:	6	3	6	1	1	6	2	4
1633:	2	2	3	1	4	3	3	2
1641:	4	1	1	3	1	1	4	3
1649:	3	0	2	1	3	2	3	3
1657:	2	2	2	2	2	5	6	2
1665:	3	2	2	2	0	2	1	0
1673:	4	3	0	1	0	2	1	0
1681:	2	1	1	2	3	5	3	2
1689:	0	3	3	1	3	1	1	0
1697:	2	2	0	2	1	0	2	4
1705:	2	6	1	2	0	0	2	2
1713:	2	2	2	0	1	5	0	1
1721:	1	1	1	1	2	1	2	3
1729:	4	14	14	4	4	1	0	2
1737:	1	1	2	0	0	3	0	4
1745:	0	3	1	3	2	1	4	1
1753:	2	2	1	1	0	3	1	3
1761:	2	11	6	24	71	44	20	8
1769:	1	1	2	0	1	2	1	1
1777:	1	0	2	2	0	2	0	2
1785:	4	1	3	2	0	2	2	1
1793:	1	2	1	2	2	1	1	0
1801:	1	0	1	1	3	3	3	1
1809:	2	0	1	1	1	0	3	0
1817:	1	3	4	2	2	1	1	0
1825:	1	1	2	0	2	0	1	2
1833:	1	1	2	0	1	0	1	3
1841:	1	0	1	3	2	0	4	10
1849:	12	3	0	2	1	0	1	1
1857:	1	2	2	3	2	1	0	4
1865:	2	2	1	4	0	1	2	0

1873:	2	2	2	2	1	1	2	1
1881:	0	1	2	1	1	2	2	2
1889:	3	1	1	2	2	3	2	1
1897:	2	1	1	0	2	1	3	2
1905:	3	0	3	2	1	1	2	1
1913:	1	2	1	1	1	2	1	1
1921:	3	3	0	2	1	1	3	1
1929:	1	1	1	1	2	0	1	4
1937:	2	1	3	1	1	2	1	2
1945:	0	5	1	2	2	3	1	2
1953:	3	1	1	2	2	6	1	1
1961:	1	1	2	3	2	2	3	2
1969:	0	2	1	0	1	2	1	3
1977:	1	1	1	1	1	1	1	2
1985:	1	1	1	1	0	2	0	1
1993:	2	0	1	4	2	1	2	0
2001:	3	2	1	1	0	1	0	1
2009:	1	3	4	1	3	0	0	1
2017:	0	2	1	0	0	1	1	1
2025:	0	0	3	0	1	2	2	2
2033:	2	2	1	0	0	0	1	2
2041:	2	1	2	2	2	1	4	1
2049:	2	0	1	0	4	2	3	4
2057:	1	3	0	0	2	0	2	2
2065:	0	2	0	0	1	1	2	0
2073:	1	3	1	0	1	4	0	1
2081:	0	0	1	1	2	0	2	1
2089:	1	2	2	2	2	1	0	1
2097:	0	2	0	0	0	1	5	2
2105:	9	2	5	0	1	0	1	1
2113:	0	0	1	4	2	3	0	7
2121:	7	0	0	1	3	1	2	1
2129:	2	3	4	0	1	0	1	0
2137:	2	0	0	0	4	0	1	3
2145:	0	2	1	2	2	1	1	2
2153:	0	1	0	1	1	1	0	1
2161:	2	1	2	1	3	3	1	0
2169:	2	0	3	3	1	1	0	1
2177:	0	2	0	3	1	1	3	1
2185:	1	1	1	0	0	1	0	1
2193:	2	0	4	1	1	1	2	3
2201:	1	2	5	10	24	9	3	2
2209:	1	2	1	0	4	0	1	3
2217:	0	3	0	1	0	3	0	2
2225:	0	0	1	1	2	0	1	1
2233:	0	1	1	0	1	3	2	3
2241:	4	1	2	2	0	2	1	0
2249:	2	2	1	0	1	2	1	2
2257:	0	1	1	1	2	2	0	2
2265:	0	1	1	1	1	2	3	0
2273:	0	1	0	2	2	0	0	1
2281:	0	1	3	1	0	2	2	1
2289:	3	3	1	1	0	3	4	2
2297:	4	1	2	2	1	4	1	1
2305:	0	2	2	0	3	1	2	2
2313:	1	0	1	0	4	3	2	2
2321:	3	1	0	1	1	2	3	3
2329:	3	1	2	2	3	1	2	2
2337:	1	1	1	2	0	3	1	1
2345:	1	2	1	1	1	1	0	3

2353:	2	1	2	1	0	0	0	2
2361:	2	1	1	2	1	2	0	2
2369:	2	1	1	1	0	2	2	0
2377:	1	2	1	1	1	0	1	1
2385:	2	2	2	1	0	0	1	1
2393:	0	2	1	2	0	1	0	0
2401:	1	0	0	1	0	2	1	3
2409:	1	2	1	2	3	1	0	1
2417:	1	2	1	0	0	0	2	0
2425:	0	1	2	2	0	1	0	1
2433:	0	1	0	1	0	1	2	2
2441:	0	0	0	2	0	1	1	3
2449:	3	2	0	1	1	0	0	0
2457:	1	2	1	1	1	0	0	0
2465:	0	0	0	0	0	1	1	2
2473:	0	2	2	0	1	0	1	0
2481:	1	1	0	2	0	3	0	1
2489:	2	0	2	2	1	1	0	0
2497:	1	1	0	0	0	0	0	0
2505:	1	0	0	1	0	2	1	0
2513:	0	1	0	0	0	0	1	1
2521:	0	0	2	1	1	0	0	0
2529:	1	0	2	0	0	0	0	0
2537:	0	0	1	1	0	1	0	1
2545:	1	0	0	0	0	0	0	0
2553:	0	0	0	0	1	0	0	0
2561:	0	1	1	0	0	0	1	0
2569:	0	0	1	0	0	0	0	0
2577:	0	1	0	0	1	1	1	0
2585:	0	0	0	2	1	0	1	1
2593:	0	0	0	0	1	1	2	0
2601:	1	0	1	0	1	0	0	0
2609:	0	0	1	1	8	8	35	41
2617:	20	7	2	2	0	0	0	2
2625:	1	1	1	0	0	1	0	0
2633:	0	0	0	0	0	2	0	0
2641:	1	0	1	0	0	2	2	0
2649:	0	0	0	0	0	0	1	0
2657:	1	0	0	0	1	0	0	0
2665:	0	0	0	1	0	0	0	0
2673:	0	0	0	1	0	2	0	3
2681:	0	0	0	0	0	1	0	2
2689:	0	1	0	1	0	0	0	3
2697:	0	1	0	1	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	1	0	1	0	0	0	0
2721:	0	0	0	1	1	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	0	0	1	1	1
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	1	1	1	0
2761:	1	1	0	1	0	1	1	0
2769:	1	0	0	0	1	1	0	0
2777:	0	0	0	1	0	0	0	1
2785:	0	1	0	0	1	1	3	1
2793:	1	0	0	0	0	0	0	0
2801:	1	0	1	0	0	0	0	0
2809:	0	0	0	1	0	1	0	0
2817:	0	0	0	1	0	0	0	0
2825:	0	0	0	0	1	0	0	0

2833:	1	0	1	3	0	0	0	0
2841:	0	0	0	1	0	0	0	0
2849:	0	0	0	0	1	0	0	0
2857:	1	0	0	0	0	1	0	0
2865:	2	0	0	0	0	0	0	0
2873:	0	2	0	0	0	0	0	0
2881:	0	0	0	1	1	0	1	0
2889:	1	0	0	0	1	0	0	0
2897:	0	0	0	1	0	1	1	0
2905:	0	0	0	0	0	1	0	0
2913:	0	1	0	0	1	0	1	0
2921:	0	0	0	0	0	0	0	0
2929:	1	0	0	1	0	1	1	0
2937:	0	2	0	0	2	0	0	0
2945:	1	0	0	0	1	1	0	0
2953:	0	0	0	0	0	0	0	1
2961:	0	0	0	1	0	0	0	0
2969:	1	0	0	1	0	0	0	0
2977:	1	0	0	1	0	0	0	0
2985:	0	1	0	0	0	0	0	0
2993:	0	0	0	0	0	1	0	0
3001:	0	0	0	1	0	1	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	0	0	0	1	1	0	0
3025:	1	2	1	1	0	1	0	0
3033:	1	0	1	1	0	1	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	1	0	1	1	3	0	0	1
3065:	0	1	0	0	1	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	1	0	0
3089:	0	0	1	0	1	0	1	0
3097:	0	0	0	1	1	0	2	1
3105:	0	0	1	1	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	2	0	1	0	1	0	0	0
3129:	0	1	2	0	0	1	0	0
3137:	0	0	0	0	0	0	0	0
3145:	2	1	0	0	0	1	0	0
3153:	0	0	1	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	1	0	0	1	0	1	0
3185:	0	0	0	0	0	0	0	1
3193:	0	0	0	0	1	3	3	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	1	1	0	0	1	0
3217:	0	0	1	0	0	0	0	0
3225:	0	0	0	0	0	0	1	0
3233:	1	1	0	1	0	0	0	1
3241:	0	0	0	0	0	0	0	0
3249:	0	1	0	0	0	0	1	1
3257:	0	0	1	0	1	0	0	0
3265:	0	0	2	0	0	0	0	0
3273:	1	0	0	1	0	0	0	0
3281:	0	0	0	0	0	0	1	0
3289:	2	0	0	1	0	0	0	0
3297:	0	1	0	0	0	1	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	0	0	0	1	1
3321:	0	0	0	1	1	0	0	0
3329:	0	0	0	0	0	1	1	0
3337:	0	0	0	0	0	0	0	1
3345:	2	0	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	1	0	0	0	1	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	1	0	0	0	0	0	1	0
3393:	0	0	0	0	1	0	0	0
3401:	0	1	0	0	0	0	0	0
3409:	0	0	0	0	0	0	1	1
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	1	0	0
3433:	0	0	0	0	0	0	0	0
3441:	1	0	0	0	0	0	0	0
3449:	0	0	0	0	0	1	1	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	2	0	0	0	1	0	0	0
3481:	0	1	0	0	0	0	0	0
3489:	0	0	0	0	1	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	1
3513:	0	1	0	0	0	1	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	2	0	0	0	0	0
3537:	0	2	0	0	0	0	1	0
3545:	0	0	1	0	1	1	0	1
3553:	0	0	1	0	0	0	0	1
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	1	1	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	1	0	0	0	0	0
3593:	1	0	1	1	1	0	0	0
3601:	0	0	0	0	0	0	0	1
3609:	0	0	1	0	0	0	0	0
3617:	0	0	0	1	0	0	0	0
3625:	0	1	0	0	0	1	1	0
3633:	0	1	0	0	0	0	0	0
3641:	0	0	0	0	0	1	0	1
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	1	0	0	0	1	0	0	0
3673:	1	0	0	0	0	1	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	2	0	0	0	0	0	0	0
3705:	1	0	0	0	1	1	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	0	0	0	1
3753:	1	0	0	2	0	0	0	0
3761:	1	0	0	0	0	1	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	1	0
3785:	0	1	0	0	0	0	0	0

3793:	0	1	0	0	1	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	1	0	0	0	0	0	0	0
3817:	1	0	0	0	1	0	0	0
3825:	0	0	0	2	0	0	0	0
3833:	0	0	0	0	0	0	1	0
3841:	0	1	0	0	0	0	0	0
3849:	0	0	0	0	1	0	0	1
3857:	0	0	0	0	0	0	0	0
3865:	1	0	0	0	0	0	0	0
3873:	0	0	0	1	0	0	0	1
3881:	0	1	0	1	0	0	0	0
3889:	0	1	0	0	1	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	1	0	0	0	0	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	0	2	0	0	0
3937:	0	0	0	0	0	0	1	0
3945:	0	1	0	0	0	0	0	0
3953:	0	0	0	0	1	0	0	1
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	1	0	0	1	0
3977:	0	0	0	0	0	0	1	0
3985:	0	0	0	0	2	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	2	0	1	0	0	0	0
4017:	0	1	1	0	0	0	0	0
4025:	0	0	1	0	0	1	0	0
4033:	0	0	0	0	0	0	0	0
4041:	1	0	0	1	0	0	0	0
4049:	0	0	0	0	0	0	0	1
4057:	0	0	0	0	0	0	1	0
4065:	1	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	1	0	0	1	0	0	0	0
4089:	0	0	0	0	0	0	1	0

KM 7-9-10

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

VAX/VMS Peak Search Report Generated 9-JUL-2010 07:33:52.79

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606108_GE4_GAS1002_151295.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-5
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 06:33:35.
Sample ID : 1006061-08 Sample Quantity : 1.55300E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:00.82 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	76.48*	137	204	4.90	76.46	72	11	44.6		
0	93.14*	43	119	2.10	93.11	90	7	98.9		
0	164.46	47	53	5.10	164.41	161	8	62.2		CE-139
0	187.84	42	139	6.49	187.77	181	12	118.4		
0	226.91	34	71	4.83	226.83	223	9	95.5		
0	240.92	64	119	5.44	240.83	234	12	73.0		RA-224
0	295.59*	68	78	3.53	295.49	289	16	62.8		PB-214
0	339.33*	25	41	1.28	339.21	336	8	98.0		
0	352.56*	65	39	2.10	352.43	349	8	42.8		PB-214
0	485.02	103	19	17.40	484.84	471	29	32.6		
0	610.58*	41	33	2.11	610.34	605	10	61.5		
0	777.74	21	13	8.16	777.43	772	13	83.2		RB-82
0	970.80	15	3	2.57	970.42	967	10	66.5		
0	1058.07*	6	1	1.08	1057.64	1055	5	118.1		
0	1128.86	7	3	2.69	1128.41	1125	6	104.3		
0	1462.19*	12	7	1.32	1461.60	1457	8	102.4		K-40
0	1525.22	10	0	1.91	1524.60	1521	7	63.2		
0	1883.58	4	2	2.89	1882.81	1877	7	150.5		

AG
7/12/10

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

Total number of lines in spectrum	18	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	10	55.56%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.199E+00	3.199E+00	3.293E+00	102.94	
PB-214	1602.00Y	1.00	1.398E+00	1.398E+00	0.532E+00	38.09	
RA-224	1.41E+10Y	1.00	8.201E+00	8.201E+00	6.086E+00	74.21	
			---	---			
Total Activity :			1.280E+01	1.280E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RB-82	25.55D	2.75	2.665E+00	7.330E+00	6.158E+00	84.01	
			---	---			
Total Activity :			2.665E+00	7.330E+00			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-139	137.66D	1.21	2.242E-01	2.705E-01	1.702E-01	62.92	
			---	---			
Total Activity :			2.242E-01	2.705E-01			

Grand Total Activity : 1.569E+01 2.040E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	3.199E+00	3.199E+00	102.94	OK
Final Mean for 1 Valid Peaks = 3.199E+00+/- 3.293E+00 (102.94%)							
PB-214	295.21	19.19	7.915E-01	2.167E+00	2.167E+00	64.73	OK
	351.92	37.19*	6.661E-01	1.268E+00	1.268E+00	45.37	OK
Final Mean for 2 Valid Peaks = 1.398E+00+/- 5.325E-01 (38.09%)							
RA-224	240.98	3.95*	9.529E-01	8.201E+00	8.201E+00	74.21	OK
Final Mean for 1 Valid Peaks = 8.201E+00+/- 6.086E+00 (74.21%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
RB-82	776.52	13.00*	2.930E-01	2.665E+00	7.330E+00	84.01	OK
Final Mean for 1 Valid Peaks = 7.330E+00+/- 6.158E+00 (84.01%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CE-139	165.85	80.35*	1.269E+00	2.242E-01	2.705E-01	62.92	OK
Final Mean for 1 Valid Peaks = 2.705E-01+/- 1.702E-01 (62.92%)							

Flag: "*" = Keyline

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	3.199E+00	3.293E+00	3.954E+00	3.912E-01	0.809
RB-82	7.330E+00	6.158E+00	8.113E+00	9.101E-01	0.903
CE-139	2.705E-01	1.702E-01	2.235E-01	1.967E-02	1.210
PB-214	1.398E+00	5.325E-01	6.273E-01	9.157E-02	2.229
RA-224	8.201E+00	6.086E+00	5.206E+00	6.663E-01	1.575

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	2.804E+00		2.273E+00	4.644E+00	6.515E-01	0.604
NA-22	-5.537E-02		1.987E-01	3.818E-01	3.611E-02	-0.145
AL-26	-9.405E-02		1.957E-01	3.571E-01	3.243E-02	-0.263
TI-44	-1.397E-01		1.291E-01	1.853E-01	1.459E-02	-0.754
SC-46	9.649E-03		2.204E-01	4.471E-01	4.355E-02	0.022
V-48	-5.363E-01		7.641E-01	1.257E+00	1.209E-01	-0.427
CR-51	1.596E+00		3.223E+00	5.967E+00	9.157E-01	0.268
MN-54	1.643E-01		2.065E-01	4.300E-01	4.539E-02	0.382
CO-56	4.802E-02		2.203E-01	4.356E-01	4.528E-02	0.110
CO-57	8.240E-02		1.015E-01	1.891E-01	1.950E-02	0.436
CO-58	-7.829E-02		3.022E-01	5.219E-01	5.675E-02	-0.150
FE-59	1.124E-01		4.983E-01	1.085E+00	1.087E-01	0.104
CO-60	9.299E-02		2.069E-01	4.468E-01	4.051E-02	0.208
ZN-65	-2.073E-01		4.927E-01	8.997E-01	8.390E-02	-0.230
SE-75	-2.116E-01		2.362E-01	3.767E-01	5.395E-02	-0.562
RB-83	1.247E-01		4.413E-01	8.255E-01	1.575E-01	0.151
KR-85	1.032E+01		4.705E+01	8.422E+01	1.176E+01	0.123
SR-85	6.677E-02		3.045E-01	5.450E-01	7.607E-02	0.123
Y-88	8.946E-03		2.094E-01	4.684E-01	4.213E-02	0.019
NB-93M	2.037E+01		1.179E+01	1.410E+01	6.555E+00	1.445
NB-94	-4.770E-02		1.853E-01	3.248E-01	3.259E-02	-0.147
NB-95	1.626E-01		4.844E-01	8.687E-01	9.834E-02	0.187
ZR-95	-1.701E-02		5.250E-01	9.466E-01	1.142E-01	-0.018
RU-103	-1.855E-02		2.925E-01	4.732E-01	8.499E-02	-0.039
RU-106	-6.219E-01		1.888E+00	3.228E+00	5.262E-01	-0.193
AG-108M	-8.599E-02		2.113E-01	3.556E-01	4.134E-02	-0.242
CD-109	-1.740E-01		3.546E+00	5.035E+00	5.696E-01	-0.035
AG-110M	-8.590E-03		1.903E-01	3.457E-01	4.132E-02	-0.025
SN-113	-9.439E-02		2.507E-01	4.266E-01	5.847E-02	-0.221
TE123M	4.547E-02		1.566E-01	2.525E-01	2.291E-02	0.180
SB-124	-4.099E-02		2.863E-01	4.476E-01	5.842E-02	-0.092
I-125	1.815E-01		3.265E+00	5.800E+00	6.409E-01	0.031
SB-125	-2.276E-01		5.306E-01	8.914E-01	1.244E-01	-0.255
SB-126	-1.157E+00		2.662E+00	4.471E+00	5.204E-01	-0.259
SN-126	-4.757E-02		3.355E-01	4.726E-01	4.535E-02	-0.101
I-129	-2.518E-01		3.477E-01	5.848E-01	8.175E-02	-0.431
I-131	9.063E-01		4.296E+00	7.749E+00	1.110E+00	0.117
BA-133	2.408E-01		2.567E-01	4.496E-01	7.925E-02	0.536

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
CS-134	-1.457E-02		2.041E-01	3.224E-01	4.202E-02	-0.045
CS-135	1.061E-01		7.240E-01	1.293E+00	1.877E-01	0.082
CS-136	-5.197E-01		1.673E+00	3.055E+00	2.984E-01	-0.170
CS-137	-8.327E-02		2.099E-01	3.547E-01	4.210E-02	-0.235
LA-138	2.009E-01		2.750E-01	6.650E-01	6.440E-02	0.302
BA-140	9.254E-02		4.519E+00	8.198E+00	2.858E+00	0.011
LA-140	8.102E-01		1.593E+00	3.670E+00	3.507E-01	0.221
CE-141	3.632E-01		4.521E-01	8.130E-01	2.224E-01	0.447
CE-144	-2.632E-01		8.738E-01	1.502E+00	1.494E-01	-0.175
PM-144	2.683E-01		2.126E-01	4.444E-01	5.230E-02	0.604
PM-145	-4.307E-01		6.796E-01	1.047E+00	6.844E-01	-0.411
PM-146	-1.911E-01		3.699E-01	6.146E-01	8.593E-02	-0.311
ND-147	7.225E+00		1.292E+01	2.480E+01	3.439E+00	0.291
EU-152	1.197E-01		1.376E+00	2.863E+00	3.370E-01	0.042
GD-153	1.100E-01		4.175E-01	7.465E-01	7.339E-02	0.147
EU-154	-1.596E-01		5.470E-01	1.048E+00	9.912E-02	-0.152
EU-155	2.211E-01		4.413E-01	5.909E-01	5.605E-02	0.374
EU-156	2.118E+00		1.032E+01	1.947E+01	4.628E+00	0.109
HO-166M	3.526E-01		3.526E-01	7.262E-01	8.487E-02	0.486
HF-172	-3.399E-02		7.328E-01	1.289E+00	1.313E-01	-0.026
LU-172	-4.847E+00		1.458E+01	2.745E+01	2.579E+00	-0.177
LU-173	3.790E-01		6.191E-01	1.138E+00	1.682E-01	0.333
HF-175	1.188E-02		2.727E-01	3.959E-01	5.843E-02	0.030
LU-176	7.824E-02		1.378E-01	2.344E-01	3.560E-02	0.334
TA-182	4.901E-01		9.283E-01	1.784E+00	1.658E-01	0.275
IR-192	-1.241E-01		4.280E-01	6.513E-01	9.130E-02	-0.190
HG-203	1.044E-01		2.676E-01	4.877E-01	7.504E-02	0.214
BI-207	-1.533E-01		1.780E-01	2.835E-01	3.832E-02	-0.541
TL-208	2.425E-01		6.253E-01	1.176E+00	1.569E-01	0.206
BI-210M	-9.114E-02		2.366E-01	4.026E-01	5.682E-02	-0.226
PB-210	3.451E+00		3.196E+00	5.985E+00	5.087E-01	0.577
PB-211	-1.556E+00		5.195E+00	8.869E+00	1.212E+00	-0.175
BI-212	-8.299E-01		1.846E+00	3.063E+00	3.554E-01	-0.271
PB-212	5.487E-01		3.321E-01	6.060E-01	7.670E-02	0.905
BI-214	1.153E+00	+	7.253E-01	1.193E+00	1.544E-01	0.966
RN-219	-1.085E+00		2.225E+00	3.713E+00	5.064E-01	-0.292
RA-223	9.679E-01		3.176E+00	5.799E+00	8.720E-01	0.167
RA-225	-3.754E+00		2.427E+00	3.823E+00	3.708E-01	-0.982
RA-226	8.628E-01		3.797E+00	6.300E+00	1.154E+01	0.137
TH-227	5.687E-01		1.499E+00	1.958E+00	2.447E-01	0.290
AC-228	1.674E-01		7.689E-01	1.537E+00	1.477E-01	0.109
TH-230	-3.323E+01		3.303E+01	4.773E+01	3.751E+00	-0.696
PA-231	-2.563E+00		6.129E+00	9.090E+00	1.383E+00	-0.282
TH-231	1.945E-01		1.873E+00	3.300E+00	5.886E-01	0.059
PA-233	-3.547E-01		8.389E-01	1.410E+00	3.621E-01	-0.252
PA-234	-1.106E-01		4.247E-01	7.319E-01	7.335E-02	-0.151
PA-234M	-6.243E+00		1.615E+01	3.069E+01	2.945E+00	-0.203
TH-234	9.881E-01		2.862E+00	5.293E+00	4.008E-01	0.187

Sample ID : 1006061-08 Acquisition date : 9-JUL-2010 06:33:35

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
U-235	5.562E-01		9.310E-01	1.681E+00	3.029E-01	0.331
NP-237	5.340E-01		1.067E+00	1.428E+00	1.355E-01	0.374
AM-241	-4.648E-01		2.989E-01	4.727E-01	3.480E-02	-0.983
AM-243	3.339E-01		1.737E-01	3.222E-01	2.704E-02	1.036
CM-243	-3.213E-01		9.222E-01	1.564E+00	2.368E-01	-0.205

Summary of Nuclide Activity
Sample ID : 1006061-08

Acquisition date : 9-JUL-2010 06:33:35

Total number of lines in spectrum	18	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	10	55.56%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.199E+00	3.199E+00	3.293E+00	102.94	
PB-214	1602.00Y	1.00	1.398E+00	1.398E+00	0.532E+00	38.09	
RA-224	1.41E+10Y	1.00	8.201E+00	8.201E+00	6.086E+00	74.21	
			---	---			
	Total Activity :		1.280E+01	1.280E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RB-82	25.55D	2.75	2.665E+00	7.330E+00	6.158E+00	84.01	
			---	---			
	Total Activity :		2.665E+00	7.330E+00			

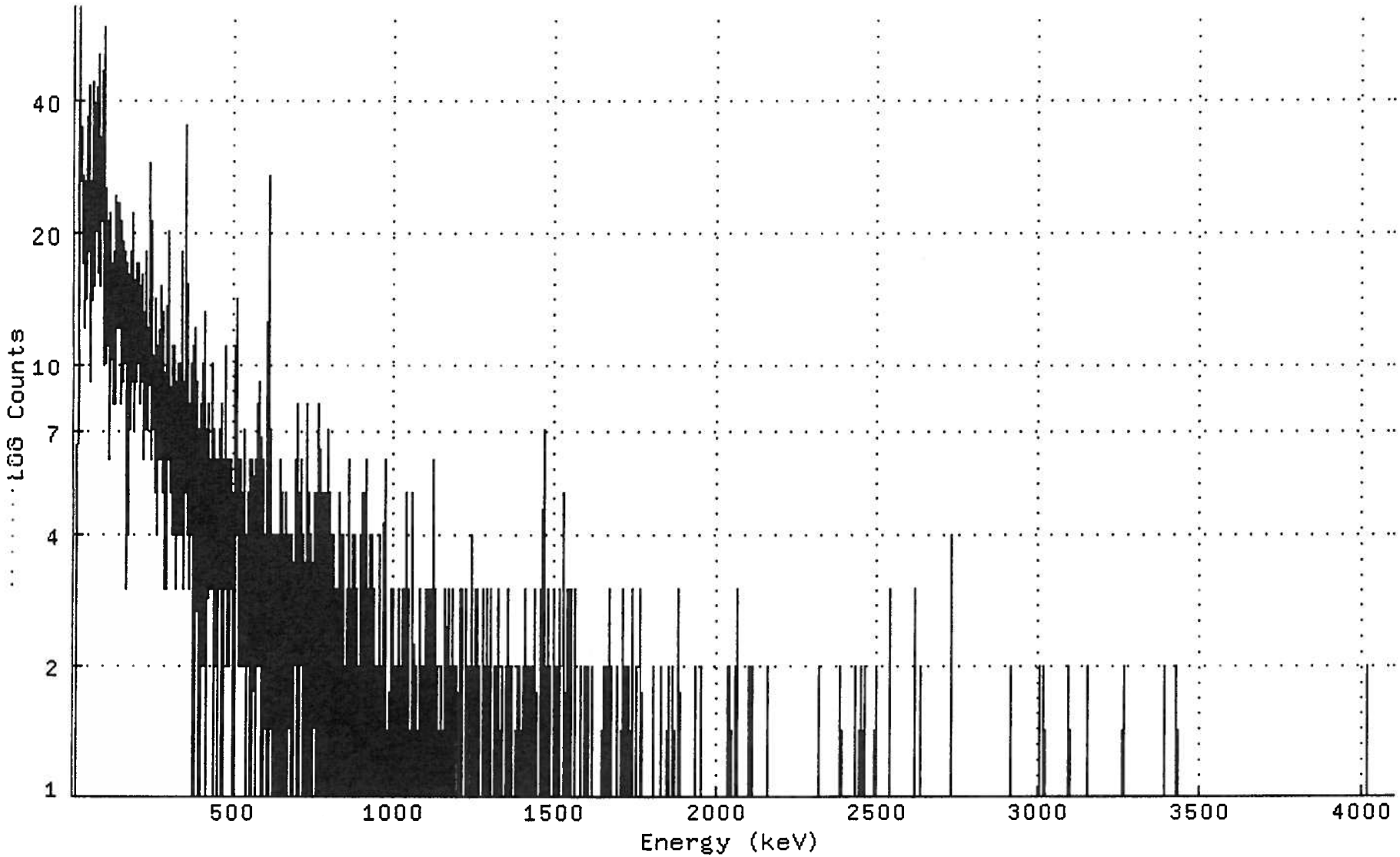
Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-139	137.66D	1.21	2.242E-01	2.705E-01	1.702E-01	62.92	
			---	---			
	Total Activity :		2.242E-01	2.705E-01			

Grand Total Activity :	1.569E+01	2.040E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606108_GE4_GAS1002_151295.CNF;1
Title :
Sample Title: S-5
Start Time: 9-JUL-2010 06:33: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:00.82 Sample ID : 1006061-08 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



0177

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606108_GE4_GAS1002_1512

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	1	42
17:	66	43	40	28	40	30	31	33
25:	34	31	32	21	23	17	27	23
33:	20	26	20	20	18	12	18	14
41:	17	30	14	20	31	43	41	38
49:	18	19	21	24	19	18	26	24
57:	9	21	25	19	22	28	44	35
65:	34	21	20	31	15	30	20	20
73:	25	38	37	49	51	48	29	26
81:	17	15	20	33	16	28	26	32
89:	25	21	25	37	59	40	22	10
97:	16	18	14	17	25	17	10	14
105:	18	16	13	11	21	20	19	13
113:	22	10	14	6	17	12	15	14
121:	14	17	14	11	18	13	10	8
129:	24	12	8	12	16	12	16	16
137:	17	12	15	23	13	23	12	22
145:	14	22	16	21	11	8	14	13
153:	9	19	15	17	16	17	18	10
161:	10	17	16	14	17	14	9	3
169:	6	9	10	16	4	10	12	15
177:	7	11	11	13	18	9	12	15
185:	22	21	22	11	13	13	15	10
193:	7	17	12	9	17	13	14	16
201:	10	13	14	17	14	10	15	10
209:	9	15	8	10	11	11	12	10
217:	16	7	13	10	11	6	7	15
225:	7	18	12	17	10	12	7	11
233:	12	10	7	11	11	23	29	25
241:	20	12	21	8	6	12	9	10
249:	9	7	10	8	6	8	10	14
257:	5	9	11	6	7	4	8	6
265:	9	6	8	7	9	11	13	11
273:	15	6	8	13	9	8	5	13
281:	7	10	9	5	3	7	9	4
289:	3	10	10	7	5	12	15	20
297:	18	8	6	11	7	7	5	5
305:	7	7	6	10	11	6	5	4
313:	7	7	7	4	11	9	3	7
321:	9	9	6	7	6	6	6	10
329:	4	4	10	8	10	5	5	4
337:	9	18	6	9	9	7	8	3
345:	4	7	9	7	5	7	14	35
353:	29	8	6	4	4	4	7	8
361:	3	6	5	8	5	10	9	8
369:	7	4	8	5	4	6	11	1
377:	3	6	1	8	7	6	12	5
385:	4	8	5	9	7	1	7	4
393:	1	5	7	2	7	6	1	7
401:	8	3	2	9	5	10	4	8
409:	10	2	13	3	7	1	3	6
417:	2	1	8	3	4	7	5	5
425:	5	3	6	6	4	6	3	5

433:	4	10	6	3	3	1	7	3
441:	3	3	4	3	6	5	2	6
449:	6	1	3	3	0	6	4	7
457:	3	6	5	5	8	7	3	1
465:	4	3	2	6	1	3	0	4
473:	6	4	3	6	11	5	2	5
481:	6	3	5	5	6	6	2	6
489:	4	4	4	3	6	4	3	5
497:	1	3	0	0	4	1	5	3
505:	11	4	7	8	4	11	11	14
513:	9	4	3	2	3	5	3	6
521:	3	2	4	2	4	4	2	5
529:	4	3	4	3	7	5	2	4
537:	3	2	4	3	1	1	3	5
545:	2	2	3	2	2	3	2	2
553:	1	4	6	3	2	2	1	3
561:	6	5	2	5	5	3	1	6
569:	0	5	3	2	4	3	2	8
577:	4	2	5	5	2	3	6	9
585:	5	3	5	1	3	2	2	2
593:	6	1	4	2	2	4	2	3
601:	4	2	1	4	2	4	4	7
609:	22	27	10	2	1	0	7	5
617:	3	4	6	2	1	4	2	2
625:	0	2	3	0	1	3	4	2
633:	3	1	4	3	2	2	4	1
641:	4	4	3	1	2	1	4	6
649:	3	3	5	1	2	2	4	0
657:	4	0	3	2	4	1	4	1
665:	5	5	5	1	2	3	4	2
673:	2	3	3	2	4	4	2	1
681:	1	0	3	4	4	3	2	2
689:	1	2	3	3	4	5	6	2
697:	2	8	3	5	1	1	1	5
705:	1	4	2	3	4	6	4	4
713:	3	2	2	3	0	1	1	3
721:	4	3	1	1	2	2	5	4
729:	5	1	8	2	3	1	5	3
737:	4	1	3	3	1	1	4	2
745:	2	3	2	0	3	3	4	2
753:	2	4	5	2	0	1	2	5
761:	3	2	1	5	1	1	5	8
769:	5	4	0	2	2	5	3	5
777:	2	3	1	2	5	1	3	0
785:	2	1	5	2	0	3	1	3
793:	1	4	3	7	3	2	0	5
801:	2	4	4	2	4	3	1	3
809:	2	3	2	1	3	2	4	0
817:	3	1	2	1	1	1	0	2
825:	2	3	2	2	2	1	5	1
833:	4	3	1	1	4	3	1	1
841:	1	1	4	1	0	2	2	0
849:	2	2	1	3	0	1	1	1
857:	3	0	6	1	4	1	3	3
865:	3	2	2	1	0	2	4	2
873:	0	1	1	1	1	4	1	0
881:	2	1	0	2	2	3	0	2
889:	1	2	0	2	1	1	4	0
897:	2	1	3	2	2	5	3	1
905:	1	4	2	3	0	5	1	6

913:	1	1	1	4	2	1	3	2
921:	3	1	1	0	2	4	0	2
929:	2	0	4	1	3	2	2	0
937:	3	1	2	0	0	1	1	1
945:	2	1	2	1	0	2	0	1
953:	4	2	0	1	2	0	1	1
961:	1	0	0	2	2	0	0	3
969:	3	6	1	1	1	1	2	0
977:	1	1	1	0	0	1	1	1
985:	0	1	0	3	1	1	1	2
993:	2	1	1	1	3	0	0	0
1001:	1	2	1	0	2	0	0	2
1009:	2	0	0	2	1	2	1	1
1017:	3	0	0	0	1	2	1	2
1025:	3	0	0	1	1	3	0	0
1033:	1	0	0	5	1	1	2	2
1041:	1	1	3	2	1	2	1	1
1049:	0	1	1	1	1	1	0	2
1057:	1	5	0	0	2	1	2	0
1065:	0	1	1	2	1	1	0	0
1073:	1	1	1	1	2	0	1	3
1081:	0	2	0	2	1	2	1	2
1089:	2	0	2	0	2	0	3	1
1097:	0	0	0	2	3	0	1	0
1105:	1	0	0	1	1	2	0	3
1113:	2	1	0	3	0	1	2	6
1121:	2	2	2	1	1	0	3	3
1129:	3	0	0	1	2	1	1	0
1137:	1	1	0	1	0	2	1	2
1145:	2	1	1	0	1	0	0	0
1153:	0	2	0	0	1	0	3	2
1161:	0	2	0	2	0	3	0	1
1169:	3	2	2	1	2	1	1	1
1177:	1	3	0	0	2	0	1	1
1185:	2	0	0	2	2	1	0	1
1193:	1	1	2	1	0	0	0	0
1201:	1	3	2	1	1	2	1	3
1209:	2	0	1	0	1	0	1	0
1217:	1	0	0	2	3	3	0	3
1225:	0	0	0	2	1	0	0	2
1233:	2	1	0	1	0	1	4	0
1241:	1	0	0	1	1	1	2	0
1249:	1	3	1	0	0	0	3	1
1257:	0	1	0	1	0	2	1	0
1265:	0	1	1	1	1	0	1	1
1273:	0	0	1	3	0	1	2	1
1281:	0	2	0	0	1	0	1	3
1289:	0	0	1	0	1	2	2	1
1297:	2	1	1	3	1	0	0	0
1305:	0	1	1	0	1	2	0	1
1313:	2	0	0	2	0	1	0	1
1321:	3	0	0	0	1	0	0	1
1329:	1	0	0	2	0	1	1	0
1337:	1	1	0	1	1	0	0	0
1345:	0	0	0	0	2	1	1	1
1353:	3	1	0	1	1	0	0	2
1361:	1	0	1	1	2	1	0	0
1369:	0	1	1	1	0	1	1	1
1377:	0	0	2	0	2	1	1	1
1385:	1	1	1	1	0	2	0	1

1393:	1	0	1	1	0	0	0	2
1401:	0	1	0	3	0	1	0	2
1409:	0	1	1	1	1	2	0	0
1417:	2	0	0	0	1	0	2	0
1425:	0	0	0	1	1	0	0	2
1433:	0	1	0	1	0	3	1	0
1441:	1	0	0	0	0	1	0	0
1449:	0	1	0	2	3	0	0	3
1457:	1	2	2	4	3	7	1	0
1465:	0	1	0	1	1	2	1	0
1473:	2	1	0	2	3	1	2	0
1481:	2	1	0	1	1	0	0	0
1489:	0	0	0	0	0	3	0	1
1497:	0	0	1	0	2	0	0	1
1505:	0	2	2	1	0	0	0	1
1513:	1	3	0	1	1	1	1	0
1521:	0	0	0	5	4	1	0	0
1529:	0	0	0	0	3	0	0	0
1537:	0	2	1	1	0	1	1	3
1545:	1	0	0	0	3	0	1	1
1553:	1	0	0	0	0	1	0	3
1561:	2	0	0	0	1	0	0	0
1569:	1	1	0	1	1	1	1	1
1577:	1	0	2	1	0	1	0	0
1585:	0	0	0	1	0	0	2	0
1593:	2	0	1	1	1	0	2	1
1601:	0	1	0	0	0	1	1	0
1609:	1	0	0	0	0	2	0	0
1617:	0	1	0	0	1	1	0	1
1625:	1	0	1	1	1	0	0	1
1633:	1	1	0	0	0	0	1	1
1641:	0	0	0	1	1	2	0	1
1649:	1	1	0	0	0	2	1	0
1657:	0	0	2	1	1	0	1	0
1665:	3	0	0	1	0	2	0	1
1673:	0	0	0	0	0	1	1	1
1681:	0	1	0	0	0	0	0	0
1689:	1	1	2	0	0	1	1	0
1697:	1	1	0	0	0	0	0	1
1705:	2	0	1	0	1	3	0	1
1713:	2	0	0	0	1	0	0	0
1721:	0	2	0	1	0	1	1	2
1729:	0	1	1	0	0	0	0	0
1737:	0	3	0	0	0	1	0	1
1745:	0	0	0	2	0	0	1	0
1753:	0	1	1	1	1	0	0	0
1761:	1	0	3	3	0	1	1	0
1769:	0	0	1	1	0	0	1	0
1777:	1	1	0	0	0	0	0	1
1785:	0	0	0	1	0	1	0	0
1793:	0	0	0	1	1	0	1	1
1801:	1	2	0	0	1	0	0	0
1809:	0	1	1	0	1	0	1	0
1817:	0	1	1	0	0	0	1	0
1825:	0	2	0	0	1	0	1	0
1833:	1	0	1	0	1	0	0	1
1841:	0	1	0	0	1	0	0	2
1849:	0	0	0	1	1	0	0	0
1857:	0	0	0	1	0	0	1	2
1865:	0	1	0	0	0	0	0	0

1873:	0	0	0	1	0	0	0	3
1881:	0	3	0	0	0	0	0	0
1889:	0	0	1	1	1	0	0	0
1897:	0	0	1	0	0	0	0	0
1905:	0	0	1	0	0	0	0	0
1913:	0	0	0	0	0	0	0	0
1921:	0	0	0	0	0	0	0	0
1929:	0	0	2	0	1	0	1	1
1937:	0	0	0	0	1	1	0	0
1945:	0	1	1	1	2	0	0	0
1953:	0	1	0	0	0	0	0	0
1961:	0	0	0	0	1	0	1	0
1969:	0	0	0	0	0	1	0	0
1977:	1	1	0	0	0	0	0	1
1985:	0	0	0	1	0	1	1	0
1993:	0	0	0	0	1	0	0	1
2001:	1	1	1	0	0	1	0	0
2009:	1	0	0	0	0	0	0	0
2017:	1	1	0	0	1	0	1	1
2025:	0	0	0	0	0	0	1	0
2033:	0	0	2	1	1	0	0	0
2041:	1	2	0	0	0	0	1	0
2049:	0	0	1	0	1	0	1	0
2057:	0	0	2	1	0	3	1	0
2065:	0	1	0	0	0	0	0	0
2073:	0	0	0	1	1	0	0	0
2081:	0	0	0	0	0	0	0	1
2089:	0	0	0	1	0	0	1	0
2097:	1	0	0	0	2	0	0	2
2105:	0	0	0	1	1	1	2	0
2113:	0	1	1	0	0	0	0	0
2121:	0	1	0	0	0	1	0	0
2129:	0	0	0	0	0	0	1	0
2137:	0	0	0	0	0	0	0	1
2145:	1	1	0	1	0	0	0	1
2153:	0	0	0	1	0	2	0	0
2161:	0	0	0	0	0	1	0	0
2169:	1	0	0	0	1	0	0	0
2177:	0	0	1	0	0	0	0	0
2185:	0	0	0	0	0	0	0	0
2193:	0	0	0	0	0	0	0	0
2201:	0	0	0	1	1	0	0	0
2209:	0	0	0	0	0	1	1	0
2217:	0	1	0	0	0	0	0	1
2225:	0	1	1	0	0	1	1	1
2233:	1	0	0	0	0	0	0	0
2241:	1	0	1	0	0	0	0	0
2249:	0	0	0	0	0	0	0	0
2257:	0	0	0	0	0	0	0	0
2265:	0	0	0	0	0	0	0	0
2273:	0	0	0	0	0	0	0	0
2281:	1	0	1	0	0	0	1	0
2289:	1	0	0	0	0	0	0	0
2297:	0	0	0	0	0	0	0	0
2305:	0	0	0	0	0	0	0	0
2313:	0	0	0	1	0	2	0	0
2321:	0	0	0	0	0	1	0	0
2329:	0	0	0	0	0	0	0	0
2337:	0	0	0	0	0	0	0	0
2345:	1	0	1	1	1	0	0	0

2353:	0	1	0	0	0	0	0	0
2361:	0	0	0	0	0	0	0	0
2369:	0	0	0	0	0	0	1	0
2377:	0	0	0	0	0	0	0	0
2385:	0	2	0	0	1	0	0	0
2393:	0	0	0	0	0	0	0	0
2401:	0	0	0	0	0	0	0	0
2409:	0	0	0	0	0	1	0	0
2417:	0	1	0	0	1	0	0	0
2425:	0	0	0	0	1	0	2	1
2433:	1	0	0	0	0	0	0	0
2441:	0	0	0	1	0	2	0	0
2449:	0	0	1	0	0	0	1	0
2457:	0	2	0	1	1	0	1	0
2465:	0	0	0	0	0	0	0	0
2473:	1	0	0	0	0	0	1	0
2481:	0	0	0	0	0	0	0	1
2489:	0	0	0	0	2	0	0	0
2497:	0	0	0	0	1	0	1	1
2505:	1	0	0	0	0	1	0	0
2513:	0	0	0	0	0	0	0	0
2521:	0	0	1	1	0	1	0	1
2529:	0	0	0	0	1	0	0	3
2537:	0	1	0	0	0	0	0	0
2545:	0	0	0	0	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	0	0	0	0	0
2569:	0	1	1	0	0	0	0	0
2577:	0	0	0	0	0	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	1	0	0	0	1	0	0
2601:	0	0	0	0	0	0	0	0
2609:	0	1	0	0	2	3	0	3
2617:	1	0	0	0	0	1	0	0
2625:	0	0	0	0	1	0	2	0
2633:	0	0	0	0	1	0	0	0
2641:	0	1	0	0	0	0	0	0
2649:	0	1	0	0	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	0	0	0	0	0	0	0	0
2673:	0	1	0	0	0	0	0	0
2681:	0	0	1	0	0	1	0	0
2689:	0	0	0	0	0	0	1	1
2697:	0	1	0	1	0	0	0	0
2705:	0	0	0	1	0	0	0	0
2713:	0	0	0	0	1	0	0	0
2721:	0	0	1	0	0	4	0	0
2729:	0	0	0	1	0	0	0	0
2737:	0	1	0	1	1	1	0	1
2745:	0	0	1	1	0	0	1	0
2753:	0	0	0	0	0	1	0	0
2761:	0	0	0	1	0	0	0	0
2769:	0	1	0	0	0	0	0	0
2777:	1	1	0	0	0	0	0	0
2785:	0	0	0	0	1	0	0	0
2793:	1	0	0	0	1	0	0	0
2801:	0	0	0	0	0	1	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	1	0	0	0	1
2825:	0	0	0	0	1	0	1	0

2833:	0	0	0	0	0	0	1	0
2841:	0	0	0	0	0	0	0	0
2849:	0	1	0	0	0	0	0	0
2857:	0	0	0	0	0	1	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	1	0	0	0	0	1
2889:	0	0	0	0	0	0	0	1
2897:	0	0	1	1	1	0	0	0
2905:	1	0	0	0	0	0	0	2
2913:	0	1	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	1
2929:	0	0	0	0	0	1	0	1
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	1	0	0	1	0
2953:	0	0	0	0	1	0	0	0
2961:	0	0	1	0	0	0	0	0
2969:	0	0	0	1	1	0	0	1
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	1	0	1	0
2993:	0	0	1	0	0	2	0	0
3001:	0	0	0	0	0	0	0	1
3009:	0	0	0	0	0	2	0	1
3017:	0	0	0	0	0	0	0	0
3025:	0	1	0	0	0	0	0	0
3033:	0	0	0	1	0	0	0	0
3041:	0	0	1	0	0	0	0	0
3049:	0	0	0	0	0	0	0	0
3057:	0	0	0	0	0	0	0	0
3065:	0	0	0	1	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	1	0	0	0	2	1
3089:	0	1	2	0	0	1	0	0
3097:	0	0	0	0	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	1	1	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	0
3129:	0	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	2	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	1	0	0	1	1
3169:	1	0	1	0	0	0	0	0
3177:	0	0	0	0	0	0	0	0
3185:	0	0	0	0	0	0	1	0
3193:	1	0	0	1	0	0	1	1
3201:	0	0	1	0	0	1	0	0
3209:	0	0	1	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	0	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	1	0	1	0	0
3249:	0	0	0	0	0	0	0	0
3257:	0	2	0	0	0	0	0	0
3265:	0	0	0	1	0	0	0	1
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	1	0	0	0	0	0	1	0
3297:	0	0	0	0	0	0	0	0
3305:	0	1	0	0	0	0	0	0

3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	1	0	0
3337:	0	1	0	0	0	0	0	0
3345:	1	1	0	0	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	2	0	0	0	0	0	0
3393:	0	0	1	0	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	0	0	0	1	0	0
3417:	0	0	1	1	1	0	2	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	1	0	1	1	0	0	0
3449:	0	0	0	0	0	0	1	1
3457:	0	1	0	0	1	0	0	0
3465:	0	0	0	1	0	0	0	0
3473:	0	0	0	0	0	1	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	1	0	0	0	1
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	0	1
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	1	0	0	0	0
3545:	1	0	1	0	1	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	0	0	0	0	0
3569:	0	0	0	0	0	0	1	0
3577:	1	0	1	0	0	0	0	0
3585:	0	0	0	0	1	1	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	1	0	0	0	1
3625:	0	1	1	0	0	0	0	0
3633:	0	0	1	1	0	0	0	0
3641:	0	0	1	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	1	1	1	0	0	0	0	0
3665:	0	0	0	0	0	0	0	1
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	1	0	0	0	0	0
3697:	1	1	1	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	1	0
3721:	0	0	0	0	1	1	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	1	0	0	0	0
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	1	0	0	0	0	1	0	0
3777:	1	1	0	0	0	0	0	0
3785:	0	1	0	0	1	0	0	1

3793:	0	0	0	0	0	0	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	1	0	0
3817:	0	1	0	0	0	0	0	0
3825:	0	0	0	0	0	0	1	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	1	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	1	0	0	0	0	0	1	0
3873:	0	0	0	1	0	0	0	0
3881:	0	0	0	0	1	0	0	1
3889:	0	0	0	0	0	0	0	0
3897:	0	1	0	0	1	0	1	0
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	0	0	1	0
3921:	0	0	0	0	0	0	1	0
3929:	1	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	1
3945:	0	1	0	0	0	0	0	0
3953:	0	0	1	0	0	0	1	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	1	0
3977:	0	0	0	0	1	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	1	1	1	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	2	0	1
4017:	0	0	1	0	0	1	0	1
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	1	0	0	0	0	0
4065:	0	1	1	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	1	1
4089:	0	0	0	0	0	0	0	0

KM 7-9-10

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

VAX/VMS Peak Search Report Generated 9-JUL-2010 08:36:54.32

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606109_GE1_GAS1002_151300.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-6
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 07:34:19.
Sample ID : 1006061-09 Sample Quantity : 1.73650E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:02:18.00 3.7%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	25.70	8029	51462	2.33	25.11	22	7	9.6		TH-231
0	39.64	4297	44299	1.42	39.06	37	6	15.8		RA-225
0	51.88	3790	74932	5.43	51.31	49	7	24.1		
0	63.01*	72305	101423	1.85	62.45	60	6	1.6		TH-234
0	67.57	18080	66735	1.26	67.01	66	4	4.3		
5	75.79*	257696	152596	3.26	75.24	70	27	0.7	6.18E+03	AM-243
5	81.20	15418	127092	2.98	80.65	70	27	10.1		
5	84.01*	33809	82979	1.97	83.46	70	27	3.0		TH-231
5	87.57	80517	132733	3.29	87.03	70	27	2.0		EU-155
										NP-237
										SN-126
										CD-109
5	92.83*	218255	123379	3.30	92.29	70	27	0.8		
0	99.21	10969	62894	2.01	98.67	96	6	7.5		
0	105.01	7151	47496	1.58	104.48	103	5	9.3		EU-155
3	112.73*	6939	57462	2.27	112.21	108	10	12.0	1.28E+02	
3	115.25	5842	44885	2.10	114.73	108	10	12.4		
0	121.72	541	34655	2.15	121.20	119	5	103.4		CO-57
0	129.32	19441	70570	1.76	128.81	124	10	5.3		
0	144.06*	16934	65640	1.90	143.56	139	10	5.9		U-235
										CE-141
0	154.17	7867	49838	1.56	153.67	150	8	10.1		
0	163.80*	2959	42311	1.33	163.31	160	7	23.4		U-235
0	185.71*	59847	66300	2.00	185.24	179	12	1.9		RA-226
5	200.18	1673	25645	2.19	199.71	197	17	28.8	1.14E+02	
5	202.73	1410	40493	2.59	202.27	197	17	50.2		
5	205.90*	6177	29659	1.89	205.44	197	17	9.4		U-235
5	209.47	21624	28909	1.98	209.01	197	17	2.9		
0	216.47	1228	26782	1.33	216.02	214	6	42.6		
1	236.44	41423	24781	2.16	236.00	232	15	2.2	2.19E+04	
1	241.43*	37637	20715	2.16	241.00	232	15	2.9		RA-224
4	253.14	1737	16052	2.17	252.72	250	12	22.2	1.49E+01	
4	256.86	4635	30702	3.18	256.44	250	12	14.6		
2	267.37	2382	17893	2.08	266.96	263	19	19.3	2.25E+01	CS-135
2	270.50	22539	17951	2.12	270.09	263	19	2.3		
2	274.87	1724	24031	2.64	274.46	263	19	36.1		

AG
7/12/10

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	277.64	9589	18065	1.89	277.24	263	19	4.9		
2	292.81	1709	14457	2.17	292.42	290	16	22.4	1.04E+02	
2	295.56*	19203	17081	1.88	295.16	290	16	2.6		PB-214
2	300.31	15995	16546	1.95	299.92	290	16	3.0		
0	313.83	398	17727	2.89	313.45	311	7	111.5		
0	328.36	9726	22198	1.53	327.99	325	7	5.5		
5	335.57	1802	12316	1.31	335.21	333	11	17.9	3.73E+02	
5	338.63	48398	16769	2.05	338.27	333	11	1.2		AC-228
0	351.96*	38008	27946	1.87	351.61	346	12	2.0		PB-214
0	376.52	372	13666	3.19	376.19	374	6	99.9		
0	387.37	311	13633	2.21	387.04	385	6	119.4		
2	402.06	2931	16919	2.64	401.75	396	18	15.8	1.05E+01	RN-219
2	405.47	1355	14533	2.23	405.16	396	18	30.9		PB-211
2	409.64	6320	12190	1.93	409.33	396	18	6.1		
0	427.57	617	10608	2.05	427.28	425	6	53.4		
0	440.60	391	8337	2.08	440.31	438	5	70.8		
0	453.44	1258	11311	1.79	453.17	450	7	28.7		
10	460.26	706	7816	2.45	459.99	457	11	38.6	7.28E+00	
10	463.25*	12915	9462	1.84	462.98	457	11	3.0		
0	479.01	637	10711	2.56	478.75	476	7	54.5		BE-7
0	510.86*	23319	18474	2.07	510.63	505	12	2.7		
0	523.60	379	8638	1.45	523.37	521	6	78.4		
0	546.39	398	8546	1.96	546.18	543	6	74.0		
0	562.64	2261	11156	2.09	562.45	559	8	16.7		
0	572.09	477	8640	2.49	571.90	570	6	62.4		
0	583.32*	75787	17442	1.94	583.14	577	12	1.0		TL-208
0	609.45*	24144	15783	2.08	609.29	603	12	2.4		BI-214
0	650.55	430	8886	4.41	650.42	648	7	73.3		
0	657.52	350	8754	2.79	657.39	655	7	89.3		
0	666.05	810	8667	2.10	665.93	663	7	38.8		
0	702.12*	520	7765	2.61	702.03	700	6	54.3		
0	707.90*	389	7351	2.62	707.81	706	6	70.7		
10	724.99	712	8085	3.65	724.91	721	12	49.6	3.64E+00	ZR-95
10	727.49	14853	6823	1.93	727.41	721	12	2.4		BI-212
0	742.86	727	8309	2.03	742.79	740	8	44.1		
0	755.30	2059	8960	2.16	755.24	751	9	17.1		ZR-95
4	763.64	1119	3933	2.12	763.59	761	15	16.8	4.58E+01	
4	767.16	3988	10525	3.52	767.12	761	15	10.8		NB-95
4	772.28	3438	7438	2.64	772.24	761	15	9.6		
2	782.25	1038	4937	2.16	782.21	779	22	22.0	1.57E+01	
2	785.87	2697	4807	2.04	785.84	779	22	9.0		
2	795.07	8771	5270	2.38	795.05	779	22	3.5		
0	806.29	433	4930	2.14	806.27	803	7	54.6		
7	831.30	1436	4611	2.43	831.30	827	18	16.5	8.98E+00	PB-211
7	835.97	3290	4459	2.33	835.98	827	18	7.7		MN-54
7	840.48	1807	4267	2.17	840.48	827	18	13.4		
0	860.70	8995	6635	2.12	860.72	855	12	4.2		TL-208
0	893.25	435	4140	2.00	893.30	890	8	52.0		
4	905.08	2173	5441	3.58	905.14	900	19	15.8	8.94E+01	
4	911.38*	47556	2926	2.11	911.44	900	19	1.0		AC-228
2	927.80	322	4123	2.97	927.87	923	16	72.1	1.99E+00	

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	934.35	1260	3393	2.54	934.42	923	16	17.2		
0	952.93	319	2453	2.08	953.02	951	6	50.3		
2	959.42	821	3113	2.98	959.52	956	21	22.8	2.74E+01	
2	965.05	9937	3039	2.37	965.15	956	21	3.1		
2	969.13	28022	2877	2.17	969.23	956	21	1.4		AC-228
0	988.34	263	2747	1.90	988.45	985	7	67.2		
3	1001.24*	4745	2519	2.43	1001.37	995	14	4.5	7.99E+00	PA-234M
3	1004.97	318	2109	2.09	1005.10	995	14	54.6		
0	1016.18*	262	2631	1.77	1016.32	1013	8	69.0		
0	1033.70	318	2949	2.72	1033.85	1029	9	62.6		
0	1065.09	507	3152	2.20	1065.26	1061	9	40.9		
0	1078.33	1187	3106	2.23	1078.51	1073	11	19.1		
0	1094.16	1076	2898	2.40	1094.35	1090	10	19.7		
2	1104.33	159	1329	3.04	1104.53	1102	26	70.3	7.81E+00	
2	1110.85	960	2145	2.70	1111.05	1102	26	18.0		
2	1120.39	5058	2194	2.51	1120.60	1102	26	4.3		BI-214
0	1154.81	785	2927	2.89	1155.05	1150	11	27.6		
0	1217.26	105	1224	2.10	1217.54	1216	5	101.4		
0	1238.24	1788	2470	2.34	1238.54	1234	10	11.4		
0	1246.55	807	2064	3.39	1246.86	1243	8	20.7		
0	1259.57	101	1409	1.76	1259.89	1258	6	119.1		
0	1281.26	317	2055	2.05	1281.59	1278	8	50.9		
0	1288.60	211	2066	5.72	1288.94	1286	9	79.2		
0	1333.16	110	1238	2.86	1333.53	1331	6	103.5		
0	1376.77	1424	2462	2.12	1377.17	1371	11	14.5		
0	1385.23	151	1525	2.40	1385.63	1383	7	87.9		
2	1402.09	487	1769	3.14	1402.51	1398	15	32.5	2.97E+00	
2	1408.00	621	1382	2.34	1408.42	1398	15	21.6		
0	1433.92	194	1847	5.04	1434.36	1430	10	84.3		
0	1459.23	1016	2167	2.73	1459.69	1453	12	19.4		
7	1495.93	1187	1207	2.69	1496.42	1490	28	11.7	4.87E+00	
7	1501.56	656	1226	2.63	1502.05	1490	28	20.5		
7	1510.76	1265	2030	5.11	1511.26	1490	28	15.6		
0	1542.90	130	1038	1.87	1543.42	1541	7	84.1		
0	1557.11	393	1505	3.41	1557.64	1552	12	40.7		
6	1581.10	1018	1781	3.86	1581.65	1575	24	18.2	1.04E+01	
6	1588.22	4003	1213	2.70	1588.77	1575	24	4.6		
6	1592.43	2274	1084	2.26	1592.98	1575	24	7.0		
1	1620.69	1976	1023	2.81	1621.27	1615	30	7.1	1.26E+01	BI-212
1	1630.53	2015	1052	2.92	1631.11	1615	30	7.5		
1	1638.17	666	999	2.92	1638.76	1615	30	19.3		
2	1661.73	312	1161	3.22	1662.33	1655	17	43.1	1.67E+00	
2	1667.05	260	921	2.51	1667.67	1655	17	42.7		
0	1678.73	134	741	1.85	1679.35	1677	6	66.7		
0	1685.28	168	956	4.14	1685.90	1683	8	65.9		
0	1702.40	115	917	3.37	1703.04	1699	8	93.0		
0	1729.53	778	1143	2.70	1730.18	1726	10	17.8		
0	1737.56	142	842	2.91	1738.22	1735	8	72.7		
0	1764.29*	3911	1817	2.60	1764.98	1757	16	5.8		BI-214
0	1806.49	193	947	2.29	1807.21	1803	9	59.1		
0	1847.61	469	1265	2.94	1848.35	1844	10	29.9		

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It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1887.46	177	1031	1.60	1888.23	1884	9	67.1		
0	2103.23	3706	2017	3.67	2104.16	2097	16	6.3		
0	2118.31	269	1308	3.02	2119.25	2114	10	51.9		
0	2203.55*	1215	2017	3.03	2204.56	2197	15	17.1		BI-214
0	2266.19	96	850	2.40	2267.24	2265	6	98.2		
0	2271.77	122	1086	3.57	2272.82	2271	7	90.8		
0	2447.53	257	1183	2.85	2448.71	2444	10	51.7		
0	2614.07*	25514	661	2.88	2615.37	2607	16	1.3		TL-208
0	2662.72	51	206	5.66	2664.06	2660	9	106.8		
0	2670.29	53	128	2.63	2671.64	2669	7	76.6		
0	2677.71	48	186	1.36	2679.06	2676	8	101.0		
0	2688.31	254	376	4.70	2689.67	2683	14	34.9		
0	2733.44	41	147	2.06	2734.84	2731	9	110.8		
0	2775.64	32	121	2.77	2777.06	2775	7	116.6		
0	2892.30	96	231	4.41	2893.81	2887	14	70.3		
0	2905.50	52	124	4.37	2907.01	2901	11	88.0		
0	2934.80	49	123	2.29	2936.34	2933	9	86.0		
0	3002.07	38	70	2.95	3003.66	3000	7	81.6		
0	3124.34	210	38	3.17	3126.02	3118	15	18.7		
0	3196.69	686	73	3.16	3198.42	3191	16	9.5		
0	3378.32	24	12	3.71	3380.18	3374	11	72.1		
0	3474.24	62	18	2.88	3476.17	3470	12	37.4		
0	3519.78	8	0	3.70	3521.75	3519	6	70.7		

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Total number of lines in spectrum 157
Number of unidentified lines 84
Number of lines tentatively identified by NID 73 46.50%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
BE-7	53.44D	1.62	2.182E+01	3.542E+01	1.968E+01	55.55	
MN-54	312.70D	1.09	1.865E+01	2.026E+01	0.256E+01	12.66	
ZR-95	64.02D	1.50	1.404E+01	2.103E+01	0.437E+01	20.75	
CS-135	2.30E+06Y	1.00	3.420E+01	3.420E+01	0.772E+01	22.58	
AM-243	7380.00Y	1.00	6.029E+02	6.029E+02	1.057E+02	17.54	
			---	---			
Total Activity :			6.916E+02	7.138E+02			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-57	270.90D	1.10	9.936E-01	1.093E+00	1.136E+00	103.91	
NB-95	35.06D	2.09	2.110E+01	4.415E+01	0.679E+01	15.39	
CD-109	464.00D	1.06	3.282E+03	3.470E+03	0.852E+03	24.55	
SN-126	1.00E+05Y	1.00	3.300E+02	3.300E+02	0.779E+02	23.61	
CE-141	32.50D	2.22	5.788E+01	1.283E+02	0.361E+02	28.10	
EU-155	4.96Y	1.01	5.280E+01	5.356E+01	1.032E+01	19.26	
TH-231	7.04E+08Y	1.00	1.994E+02	1.994E+02	0.489E+02	24.52	
NP-237	2.14E+06Y	1.00	9.697E+02	9.697E+02	2.240E+02	23.10	
			---	---			
Total Activity :			4.914E+03	5.196E+03			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	1.057E+03	1.057E+03	0.123E+03	11.62	
PB-211	3.28E+04Y	1.00	2.041E+02	2.041E+02	0.356E+02	17.46	
BI-212	1.41E+10Y	1.00	6.456E+02	6.456E+02	0.560E+02	8.68	
BI-214	1602.00Y	1.00	2.370E+02	2.370E+02	0.147E+02	6.21	
PB-214	1602.00Y	1.00	2.646E+02	2.646E+02	0.218E+02	8.25	
RN-219	3.28E+04Y	1.00	1.399E+02	1.399E+02	0.263E+02	18.77	
RA-224	1.41E+10Y	1.00	2.039E+03	2.039E+03	0.234E+03	11.49	
RA-225	14.80D	5.75	2.974E+01	1.709E+02	0.356E+02	20.85	
RA-226	1602.00Y	1.00	3.364E+03	3.364E+03	6.163E+03	183.20	
AC-228	1.41E+10Y	1.00	1.080E+03	1.080E+03	0.061E+03	5.63	
PA-234M	4.47E+09Y	1.00	3.374E+03	3.374E+03	0.345E+03	10.23	
TH-234	4.47E+09Y	1.00	3.074E+03	3.074E+03	0.386E+03	12.56	
U-235	7.04E+08Y	1.00	1.091E+02	1.091E+02	0.332E+02	30.42	
			---	---			
Total Activity :			1.562E+04	1.576E+04			

Grand Total Activity : 2.122E+04 2.167E+04

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
BE-7	477.59	10.42*	1.211E+00	2.182E+01	3.542E+01	55.55	OK
Final Mean for 1 Valid Peaks = 3.542E+01+/- 1.968E+01 (55.55%)							
MN-54	834.83	99.97*	7.630E-01	1.865E+01	2.026E+01	12.66	OK
Final Mean for 1 Valid Peaks = 2.026E+01+/- 2.564E+00 (12.66%)							
ZR-95	724.18	43.70	8.570E-01	8.217E+00	1.231E+01	51.03	OK
	756.72	55.30*	8.266E-01	1.948E+01	2.918E+01	20.80	OK
Final Mean for 2 Valid Peaks = 2.103E+01+/- 4.365E+00 (20.75%)							
CS-135	268.24	16.00*	1.882E+00	3.420E+01	3.420E+01	22.58	OK
Final Mean for 1 Valid Peaks = 3.420E+01+/- 7.721E+00 (22.58%)							
AM-243	74.67	66.00*	2.800E+00	6.029E+02	6.029E+02	17.54	OK
Final Mean for 1 Valid Peaks = 6.029E+02+/- 1.057E+02 (17.54%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CO-57	122.06	85.51*	2.755E+00	9.936E-01	1.093E+00	103.91	OK
	136.48	10.60	2.671E+00	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 1.093E+00+/- 1.136E+00 (103.91%)							
NB-95	765.79	99.81*	8.185E-01	2.110E+01	4.415E+01	15.39	OK
Final Mean for 1 Valid Peaks = 4.415E+01+/- 6.795E+00 (15.39%)							
CD-109	88.03	3.72*	2.851E+00	3.282E+03	3.470E+03	24.55	OK
Final Mean for 1 Valid Peaks = 3.470E+03+/- 8.519E+02 (24.55%)							
SN-126	87.57	37.00*	2.851E+00	3.300E+02	3.300E+02	23.61	OK
Final Mean for 1 Valid Peaks = 3.300E+02+/- 7.791E+01 (23.61%)							
CE-141	145.44	48.40*	2.614E+00	5.788E+01	1.283E+02	28.10	OK
Final Mean for 1 Valid Peaks = 1.283E+02+/- 3.606E+01 (28.10%)							
EU-155	86.50	30.90*	2.849E+00	3.954E+02	4.011E+02	23.10	<<WM Interf
	105.30	20.70	2.829E+00	5.280E+01	5.356E+01	19.26	OK
Final Mean for 1 Valid Peaks = 5.356E+01+/- 1.032E+01 (19.26%)							

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Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TH-231	25.64	14.70*	1.184E+00	1.994E+02	1.994E+02	24.52	OK
	84.21	6.40	2.844E+00	8.029E+02	8.029E+02	22.13	<<WM N-Sigma
Final Mean for 1 Valid Peaks = 1.994E+02+/- 4.889E+01 (24.52%)							
NP-237	86.50	12.60*	2.849E+00	9.697E+02	9.697E+02	23.10	OK
Final Mean for 1 Valid Peaks = 9.697E+02+/- 2.240E+02 (23.10%)							

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TL-208	583.14	30.22*	1.026E+00	1.057E+03	1.057E+03	11.62	OK
	860.37	4.48	7.447E-01	1.166E+03	1.166E+03	10.54	<<WM N-Sigma
	2614.66	35.85	3.778E-01	8.143E+02	8.143E+02	11.97	<<WM N-Sigma
Final Mean for 1 Valid Peaks = 1.057E+03+/- 1.228E+02 (11.62%)							
PB-211	404.84	2.90*	1.385E+00	1.459E+02	1.459E+02	32.48	OK
	831.96	2.90	7.651E-01	2.797E+02	2.797E+02	19.32	OK
Final Mean for 2 Valid Peaks = 2.041E+02+/- 3.562E+01 (17.46%)							
BI-212	727.17	11.80*	8.541E-01	6.371E+02	6.371E+02	11.66	OK
	1620.62	2.75	4.729E-01	6.568E+02	6.568E+02	12.98	OK
Final Mean for 2 Valid Peaks = 6.456E+02+/- 5.601E+01 (8.68%)							
BI-214	609.31	46.30*	9.893E-01	2.279E+02	2.279E+02	11.97	OK
	1120.29	15.10	6.070E-01	2.386E+02	2.386E+02	10.13	OK
	1764.49	15.80	4.502E-01	2.377E+02	2.378E+02	12.09	OK
	2204.22	4.98	4.030E-01	2.616E+02	2.616E+02	20.46	OK
Final Mean for 4 Valid Peaks = 2.370E+02+/- 1.472E+01 (6.21%)							
PB-214	295.21	19.19	1.761E+00	2.457E+02	2.458E+02	12.19	OK
	351.92	37.19*	1.545E+00	2.860E+02	2.860E+02	11.16	OK
Final Mean for 2 Valid Peaks = 2.646E+02+/- 2.184E+01 (8.25%)							
RN-219	401.80	6.50*	1.393E+00	1.399E+02	1.399E+02	18.77	OK
Final Mean for 1 Valid Peaks = 1.399E+02+/- 2.627E+01 (18.77%)							
RA-224	240.98	3.95*	2.021E+00	2.039E+03	2.039E+03	11.49	OK
Final Mean for 1 Valid Peaks = 2.039E+03+/- 2.343E+02 (11.49%)							

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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
RA-225	40.00	31.00*	2.015E+00	2.974E+01	1.709E+02	20.85	OK
Final Mean for 1 Valid Peaks = 1.709E+02+/- 3.564E+01 (20.85%)							
RA-226	186.21	3.28*	2.345E+00	3.364E+03	3.364E+03	183.20	OK
Final Mean for 1 Valid Peaks = 3.364E+03+/- 6.163E+03 (183.20%)							
AC-228	338.32	11.40	1.592E+00	1.153E+03	1.153E+03	11.31	OK
	911.07	27.70*	7.115E-01	1.043E+03	1.043E+03	9.11	OK
	969.11	16.60	6.778E-01	1.077E+03	1.077E+03	9.25	OK
Final Mean for 3 Valid Peaks = 1.080E+03+/- 6.081E+01 (5.63%)							
PA-234M	1001.03	0.92*	6.609E-01	3.374E+03	3.374E+03	10.23	OK
Final Mean for 1 Valid Peaks = 3.374E+03+/- 3.450E+02 (10.23%)							
TH-234	63.29	3.80*	2.676E+00	3.074E+03	3.074E+03	12.56	OK
Final Mean for 1 Valid Peaks = 3.074E+03+/- 3.862E+02 (12.56%)							
U-235	143.76	10.50*	2.624E+00	2.657E+02	2.657E+02	19.11	<<WM Interf
	163.35	4.70	2.495E+00	1.091E+02	1.091E+02	30.42	OK
	205.31	4.70	2.225E+00	2.554E+02	2.554E+02	21.99	<<WM N-Sigma
Final Mean for 1 Valid Peaks = 1.091E+02+/- 3.318E+01 (30.42%)							

Flag: "*" = Keyline

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---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	3.542E+01	1.968E+01	2.702E+01	2.717E+00	1.311
MN-54	2.026E+01	2.564E+00	1.918E+00	1.771E-01	10.562
CO-57	1.093E+00	1.136E+00	1.954E+00	1.880E-01	0.560
NB-95	4.415E+01	6.795E+00	4.263E+00	4.367E-01	10.357
ZR-95	2.103E+01	4.365E+00	5.612E+00	6.222E-01	3.748
CD-109	3.470E+03	8.519E+02	5.905E+01	1.426E+01	58.765
SN-126	3.300E+02	7.791E+01	5.615E+00	1.302E+00	58.772
CS-135	3.420E+01	7.721E+00	9.578E+00	1.063E+00	3.570
CE-141	1.283E+02	3.606E+01	7.252E+00	1.972E+00	17.695
EU-155	5.356E+01	1.032E+01	6.823E+00	1.546E+00	7.850
TL-208	1.057E+03	1.228E+02	6.341E+00	6.890E-01	166.634
PB-211	2.041E+02	3.562E+01	5.988E+01	5.571E+00	3.407
BI-212	6.456E+02	5.601E+01	1.798E+01	1.921E+00	35.903
BI-214	2.370E+02	1.472E+01	4.240E+00	4.670E-01	55.896
PB-214	2.646E+02	2.184E+01	4.307E+00	4.400E-01	61.431
RN-219	1.399E+02	2.627E+01	2.655E+01	2.461E+00	5.271
RA-224	2.039E+03	2.343E+02	3.927E+01	4.071E+00	51.919
RA-225	1.709E+02	3.564E+01	3.870E+01	5.047E+00	4.417
RA-226	3.364E+03	6.163E+03	4.892E+01	8.960E+01	68.766
AC-228	1.080E+03	6.081E+01	6.193E+00	5.032E-01	174.323
TH-231	1.994E+02	4.889E+01	2.586E+01	5.739E+00	7.709
PA-234M	3.374E+03	3.450E+02	1.730E+02	1.426E+01	19.504
TH-234	3.074E+03	3.862E+02	5.831E+01	6.886E+00	52.712
U-235	1.091E+02	3.318E+01	1.501E+01	2.662E+00	7.267
NP-237	9.697E+02	2.240E+02	1.649E+01	3.738E+00	58.788
AM-243	6.029E+02	1.057E+02	3.194E+00	5.449E-01	188.751

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
NA-22	5.719E-01		1.107E+00	1.654E+00	1.571E-01	0.346
AL-26	1.412E+00		9.864E-01	1.492E+00	1.446E-01	0.946
K-40	8.591E+01		1.433E+01	1.835E+01	1.922E+00	4.681
TI-44	3.029E+01	+	4.579E+00	2.690E+00	3.746E-01	11.260
SC-46	1.518E+00		1.572E+00	2.374E+00	1.963E-01	0.639
V-48	3.654E+00		6.037E+00	8.481E+00	6.980E-01	0.431
CR-51	-1.133E+02		4.095E+01	4.196E+01	4.706E+00	-2.700
CO-56	-1.702E+00		1.627E+00	2.385E+00	2.156E-01	-0.713
CO-58	9.523E-01		1.764E+00	2.656E+00	2.558E-01	0.359
FE-59	2.100E+00		4.574E+00	5.008E+00	4.505E-01	0.419
CO-60	-5.257E-01		9.554E-01	1.596E+00	1.311E-01	-0.329
ZN-65	1.356E+01		2.662E+00	4.017E+00	3.322E-01	3.376
SE-75	8.744E+00		2.924E+00	3.203E+00	3.537E-01	2.730
RB-82	8.617E+01		4.071E+01	4.509E+01	4.553E+00	1.911
RB-83	-1.096E+00		4.845E+00	5.341E+00	8.917E-01	-0.205
KR-85	1.353E+04		1.547E+03	6.547E+02	6.791E+01	20.663
SR-85	8.758E+01		1.002E+01	4.238E+00	4.396E-01	20.663

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
Y-88	5.252E-02		1.240E+00	1.917E+00	1.842E-01	0.027
NB-93M	3.173E+03		1.585E+03	9.716E+01	4.834E+01	32.663
NB-94	-1.263E-01		1.155E+00	1.723E+00	1.484E-01	-0.073
RU-103	-5.050E-01		2.360E+00	3.757E+00	5.709E-01	-0.134
RU-106	-1.369E+01		1.329E+01	2.149E+01	3.236E+00	-0.637
AG-108M	1.530E+01		2.413E+00	2.700E+00	2.896E-01	5.667
AG-110M	1.942E+00	+	1.750E+00	2.492E+00	2.799E-01	0.780
SN-113	-1.931E-01		3.025E+00	3.377E+00	3.176E-01	-0.057
TE123M	-9.582E-01		2.037E+00	2.318E+00	2.016E-01	-0.413
SB-124	1.983E+00		2.046E+00	3.094E+00	3.397E-01	0.641
I-125	1.176E+01		3.676E+01	5.442E+01	7.972E+00	0.216
SB-125	7.048E+00	+	3.839E+00	6.000E+00	5.825E-01	1.175
SB-126	9.913E+00		2.144E+01	3.227E+01	3.469E+00	0.307
I-129	1.334E+01		4.142E+00	5.030E+00	9.049E-01	2.652
I-131	-1.915E+01		3.142E+01	5.014E+01	4.970E+00	-0.382
BA-133	4.511E+01		6.987E+00	3.438E+00	4.891E-01	13.123
CS-134	1.198E+01		2.014E+00	2.334E+00	2.569E-01	5.131
CS-136	-4.675E+00		8.268E+00	1.385E+01	1.186E+00	-0.337
CS-137	2.089E+00		2.222E+00	2.463E+00	2.773E-01	0.848
LA-138	2.905E+00		1.587E+00	2.399E+00	2.465E-01	1.211
CE-139	1.313E+01		2.044E+00	2.457E+00	2.094E-01	5.342
BA-140	3.908E+01		4.143E+01	5.607E+01	1.889E+01	0.697
LA-140	9.766E+01		1.407E+01	1.662E+01	1.685E+00	5.877
CE-144	7.005E+01		1.397E+01	1.648E+01	1.537E+00	4.250
PM-144	4.337E-01		1.559E+00	2.346E+00	2.578E-01	0.185
PM-145	3.789E+01		2.603E+01	1.062E+01	7.012E+00	3.569
PM-146	1.092E+01	+	3.339E+00	4.480E+00	4.402E-01	2.439
ND-147	2.266E+01		1.037E+02	1.470E+02	1.545E+01	0.154
EU-152	3.494E+01	+	8.780E+00	1.251E+01	1.535E+00	2.793
GD-153	9.542E+01		1.834E+01	8.987E+00	1.548E+00	10.617
EU-154	1.513E+00		3.055E+00	4.564E+00	4.336E-01	0.332
EU-156	-1.890E+01		6.419E+01	9.551E+01	2.219E+01	-0.198
HO-166M	5.492E+00		2.683E+00	3.995E+00	4.330E-01	1.375
HF-172	8.964E+01		1.563E+01	1.519E+01	1.446E+00	5.900
LU-172	5.734E+02	+	1.246E+02	1.434E+02	1.186E+01	3.999
LU-173	2.604E+02		3.161E+01	1.115E+01	1.248E+00	23.359
HF-175	1.791E+01		3.208E+00	3.058E+00	3.182E-01	5.856
LU-176	1.433E+00		1.476E+00	1.669E+00	1.846E-01	0.858
TA-182	1.295E+02	+	1.312E+01	1.022E+01	8.442E-01	12.668
IR-192	7.354E+00		3.695E+00	5.224E+00	5.205E-01	1.408
HG-203	4.566E+01		6.200E+00	4.248E+00	4.918E-01	10.749
BI-207	2.744E+00		1.819E+00	2.026E+00	2.184E-01	1.355
BI-210M	4.490E+00		2.940E+00	3.327E+00	3.635E-01	1.349
PB-210	1.178E+02		4.426E+01	4.977E+01	5.753E+00	2.367
PB-212	1.336E+03		1.477E+02	1.224E+01	1.261E+00	109.100
RA-223	1.540E+02		3.810E+01	4.568E+01	4.926E+00	3.372
TH-227	7.606E+02	+	8.528E+01	3.921E+01	4.013E+00	19.399
TH-230	7.725E+03	+	1.161E+03	6.884E+02	9.520E+01	11.222

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-231	1.691E+03		2.067E+02	9.120E+01	1.014E+01	18.543
PA-233	4.572E+00		8.111E+00	1.054E+01	2.473E+00	0.434
PA-234	1.436E+02		1.569E+01	9.050E+00	8.492E-01	15.870
AM-241	1.320E+02		1.525E+01	6.945E+00	6.984E-01	19.008
CM-243	1.615E+02	+	2.099E+01	1.367E+01	1.551E+00	11.810

Sample ID : 1006061-09 Acquisition date : 9-JUL-2010 07:34:19

Total number of lines in spectrum 157
Number of unidentified lines 84
Number of lines tentatively identified by NID 73 46.50%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
BE-7	53.44D	1.62	2.182E+01	3.542E+01	1.968E+01	55.55	
MN-54	312.70D	1.09	1.865E+01	2.026E+01	0.256E+01	12.66	
ZR-95	64.02D	1.50	1.404E+01	2.103E+01	0.437E+01	20.75	
CS-135	2.30E+06Y	1.00	3.420E+01	3.420E+01	0.772E+01	22.58	
AM-243	7380.00Y	1.00	6.029E+02	6.029E+02	1.057E+02	17.54	
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	Total Activity :		6.916E+02	7.138E+02			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-57	270.90D	1.10	9.936E-01	1.093E+00	1.136E+00	103.91	
NB-95	35.06D	2.09	2.110E+01	4.415E+01	0.679E+01	15.39	
CD-109	464.00D	1.06	3.282E+03	3.470E+03	0.852E+03	24.55	
SN-126	1.00E+05Y	1.00	3.300E+02	3.300E+02	0.779E+02	23.61	
CE-141	32.50D	2.22	5.788E+01	1.283E+02	0.361E+02	28.10	
EU-155	4.96Y	1.01	5.280E+01	5.356E+01	1.032E+01	19.26	
TH-231	7.04E+08Y	1.00	1.994E+02	1.994E+02	0.489E+02	24.52	
NP-237	2.14E+06Y	1.00	9.697E+02	9.697E+02	2.240E+02	23.10	
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	Total Activity :		4.914E+03	5.196E+03			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	1.057E+03	1.057E+03	0.123E+03	11.62	
PB-211	3.28E+04Y	1.00	2.041E+02	2.041E+02	0.356E+02	17.46	
BI-212	1.41E+10Y	1.00	6.456E+02	6.456E+02	0.560E+02	8.68	
BI-214	1602.00Y	1.00	2.370E+02	2.370E+02	0.147E+02	6.21	
PB-214	1602.00Y	1.00	2.646E+02	2.646E+02	0.218E+02	8.25	
RN-219	3.28E+04Y	1.00	1.399E+02	1.399E+02	0.263E+02	18.77	
RA-224	1.41E+10Y	1.00	2.039E+03	2.039E+03	0.234E+03	11.49	
RA-225	14.80D	5.75	2.974E+01	1.709E+02	0.356E+02	20.85	
RA-226	1602.00Y	1.00	3.364E+03	3.364E+03	6.163E+03	183.20	
AC-228	1.41E+10Y	1.00	1.080E+03	1.080E+03	0.061E+03	5.63	
PA-234M	4.47E+09Y	1.00	3.374E+03	3.374E+03	0.345E+03	10.23	
TH-234	4.47E+09Y	1.00	3.074E+03	3.074E+03	0.386E+03	12.56	
U-235	7.04E+08Y	1.00	1.091E+02	1.091E+02	0.332E+02	30.42	
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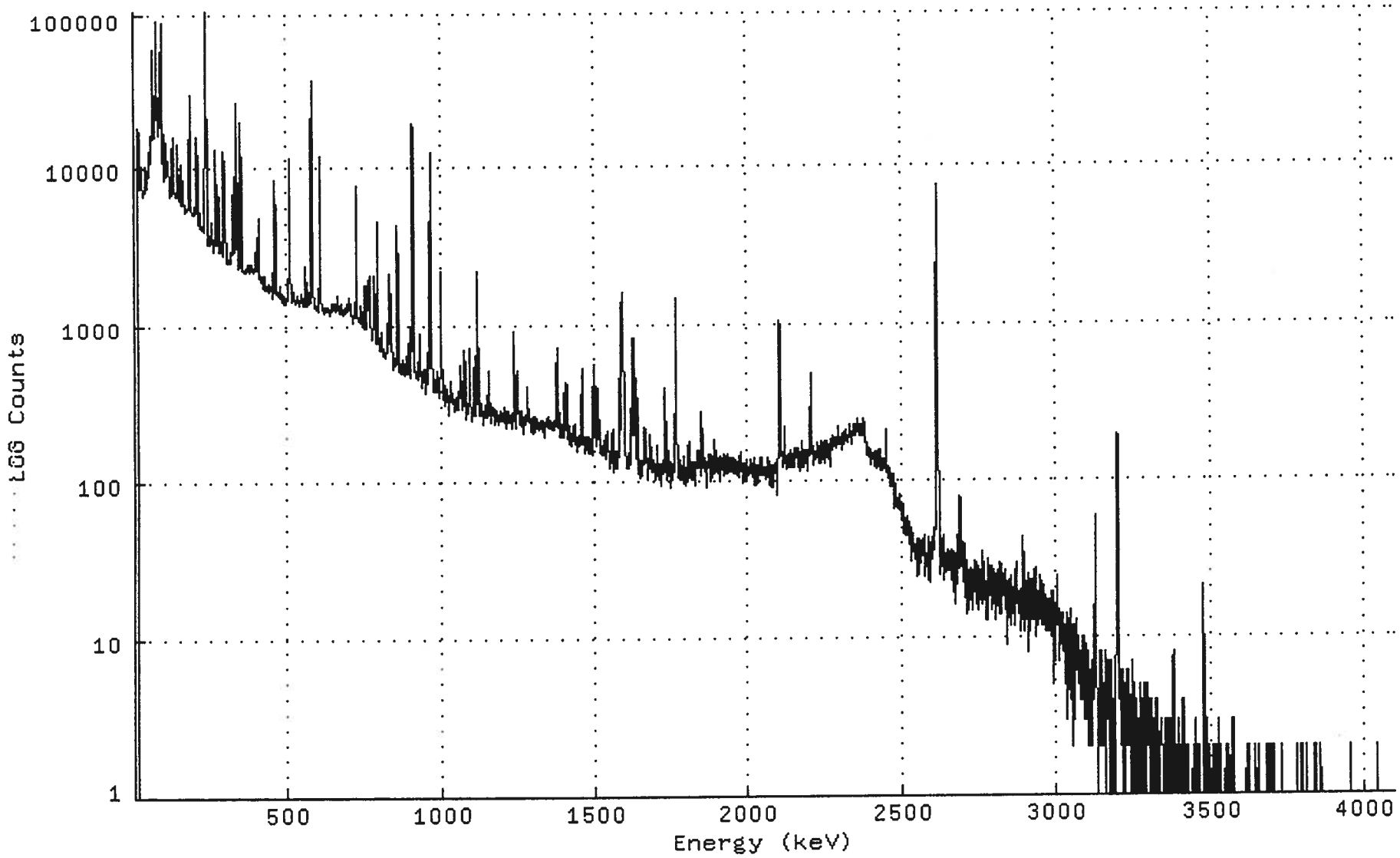
	Total Activity :		1.562E+04	1.576E+04			

Grand Total Activity : 2.122E+04 2.167E+04

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606109_GE1_GAS1002_151300.CNF;1
Title :
Sample Title: S-6
Start Time: 9-JUL-2010 07:34: Sample Time: 2-JUN-2010 00:00: Energy Offset: 6.08450E-01
Real Time : 0 01:02:18.00 Sample ID : 1006061-09 Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606109_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	25	554	18342
17:	16704	16721	12415	10167	7633	7403	7815	10000
25:	10049	8441	8309	7474	6981	6768	7003	6921
33:	6768	6765	7001	7279	7088	8058	10198	8327
41:	7440	7485	7563	7555	8252	9530	8267	8837
49:	11190	10556	10260	12199	12660	10951	10906	11558
57:	13964	13606	14284	15272	18207	46924	57360	20582
65:	15491	19364	29887	19634	15930	16655	17764	21760
73:	30933	75533	52334	88856	81782	24389	17388	19389
81:	18480	16372	28738	29243	19062	33187	39725	23177
89:	34089	31742	36429	86583	61443	26185	14732	10882
97:	12285	16695	15368	10314	8319	8279	8465	11463
105:	14747	11211	8761	10792	10812	9539	9852	10990
113:	10437	9370	10050	7730	6910	6790	6664	7016
121:	7280	7320	6916	7223	7350	7694	7912	11825
129:	15783	9284	8121	7758	7061	7032	6955	6833
137:	6688	6749	6713	7032	7233	7397	11914	14363
145:	8072	6927	6596	6337	6520	6529	6693	6601
153:	8215	10450	7102	6213	5902	6105	6247	6092
161:	5969	6222	8293	6876	5894	5928	5973	5422
169:	5385	5470	5455	5476	5447	5529	5470	5674
177:	5612	5614	5664	5729	6027	7869	9562	9296
185:	25661	30018	9310	5792	5806	5474	5361	5357
193:	5114	5181	5311	5276	5136	5235	5831	5521
201:	5296	5661	5282	5912	7526	7425	5870	8026
209:	15934	9364	5204	4889	4784	4547	4836	5343
217:	4562	4388	4334	4316	4313	4307	4339	4375
225:	4311	4187	4280	4089	4184	4046	4203	4411
233:	5158	6359	16102	22235	22899	105221	103523	22972
241:	19776	12690	5757	3697	3569	3293	3277	3295
249:	3290	3302	3263	3748	3963	3441	3836	4623
257:	3984	3802	3488	2961	2936	2945	3004	3049
265:	3015	3365	4143	4326	7737	13216	8678	4347
273:	3343	3690	3612	4153	7833	5853	3612	3149
281:	2913	3127	3173	3244	3060	3274	3177	3539
289:	3060	2778	2957	3667	3592	5936	12857	7509
297:	3964	3506	5823	11144	5498	3485	3274	2918
305:	2783	2601	2509	2562	2496	2511	2597	2559
313:	2670	2633	2629	2530	2507	2526	2548	2568
321:	2914	2890	2910	3333	3127	3128	5521	8959
329:	4772	3450	2967	3288	3031	3147	4270	4256
337:	8509	26574	15899	4288	3568	2941	2532	2308
345:	2303	2409	2348	2995	3781	4557	12954	19827
353:	6832	2852	2545	2505	2362	2249	2212	2161
361:	2144	2208	2206	2156	2204	2264	2156	2235
369:	2271	2225	2272	2253	2241	2360	2395	2236
377:	2451	2335	2261	2262	2159	2176	2188	2221
385:	2310	2294	2381	2394	2311	2254	2300	2176
393:	2209	2201	2153	2210	2233	2250	2302	2348
401:	2715	3282	2417	2456	2725	2298	2239	2800
409:	4882	4224	2357	1977	1989	1968	2048	1990
417:	1891	1874	1931	1891	1859	1868	1836	1890
425:	1752	2027	2033	1846	1807	1760	1702	1742

433:	1685	1699	1723	1672	1705	1674	1730	1851
441:	1822	1651	1654	1721	1762	1762	1684	1708
449:	1699	1691	1682	1950	2171	1744	1706	1625
457:	1490	1672	1668	1824	2027	4492	8387	4208
465:	1883	1701	1596	1589	1591	1604	1596	1577
473:	1581	1633	1538	1547	1592	1757	1726	1640
481:	1562	1524	1518	1512	1433	1502	1599	1490
489:	1435	1465	1398	1465	1452	1541	1481	1463
497:	1396	1429	1446	1484	1445	1460	1594	1623
505:	1514	1555	1759	2250	3482	8682	11488	4323
513:	1976	1685	1615	1553	1476	1436	1448	1453
521:	1494	1488	1622	1507	1457	1449	1383	1388
529:	1418	1474	1432	1459	1427	1541	1443	1406
537:	1435	1486	1480	1442	1363	1330	1428	1428
545:	1445	1531	1606	1506	1410	1612	1479	1419
553:	1362	1406	1445	1405	1349	1327	1377	1462
561:	1591	2198	2325	1558	1406	1500	1356	1424
569:	1451	1503	1563	1635	1594	1401	1421	1408
577:	1415	1521	1788	2639	3555	12253	36546	23559
585:	4435	2102	1839	1584	1408	1310	1294	1332
593:	1298	1374	1273	1351	1272	1295	1332	1281
601:	1250	1332	1310	1370	1399	1602	1936	4034
609:	11651	9651	2691	1537	1428	1328	1291	1357
617:	1371	1274	1275	1314	1256	1295	1198	1269
625:	1229	1249	1322	1245	1294	1318	1235	1285
633:	1289	1279	1237	1220	1247	1240	1253	1263
641:	1265	1225	1223	1161	1244	1271	1227	1313
649:	1366	1329	1379	1368	1304	1257	1281	1331
657:	1330	1389	1294	1237	1242	1232	1257	1301
665:	1459	1556	1342	1301	1261	1206	1259	1298
673:	1306	1311	1334	1251	1372	1352	1210	1261
681:	1234	1183	1272	1199	1222	1233	1235	1292
689:	1296	1209	1238	1280	1219	1242	1264	1296
697:	1277	1283	1256	1326	1410	1490	1459	1298
705:	1307	1286	1383	1394	1316	1200	1163	1191
713:	1167	1153	1153	1086	1083	1056	1201	1210
721:	1119	1232	1208	1305	1558	3014	7723	6729
729:	2243	1243	1139	1148	1093	1123	1126	1065
737:	1077	1033	1043	1091	1108	1215	1341	1166
745:	1090	1004	1021	1014	987	995	967	1038
753:	1085	1235	1789	1775	1076	1061	993	1022
761:	966	1134	1481	1478	1267	1858	1907	1937
769:	1712	1174	1271	2041	1938	1077	887	937
777:	934	859	815	873	1004	1254	1169	966
785:	1586	2031	1278	879	763	776	811	978
793:	1099	2366	4574	2769	1068	804	756	722
801:	706	709	732	691	778	903	847	726
809:	686	698	677	686	620	649	632	648
817:	702	673	662	647	639	639	617	641
825:	683	693	663	661	660	992	1140	1070
833:	873	774	1376	2094	1210	761	892	1255
841:	1302	778	575	581	607	511	552	543
849:	540	571	544	619	597	571	577	567
857:	642	719	1144	3308	4365	1858	703	606
865:	579	562	507	558	481	534	534	540
873:	543	549	586	573	517	560	483	582
881:	557	510	521	519	474	511	558	517
889:	496	497	481	553	728	756	545	493
897:	522	546	469	523	467	535	604	998
905:	968	686	762	1207	1907	6228	19605	18038

913:	4688	1114	843	624	503	494	463	491
921:	484	496	460	454	489	528	542	573
929:	467	469	489	498	582	882	812	567
937:	464	409	407	429	427	406	463	503
945:	520	467	486	507	480	371	408	523
953:	487	460	473	421	424	503	659	509
961:	464	600	844	2408	4589	2920	1931	5144
969:	12451	8921	2152	699	565	481	431	387
977:	398	378	416	399	404	448	430	396
985:	377	399	443	508	451	412	420	374
993:	369	383	361	386	352	422	520	1017
1001:	2174	1850	731	456	510	412	360	341
1009:	355	360	364	313	339	359	359	408
1017:	367	368	359	335	327	365	342	319
1025:	336	346	273	361	308	341	331	387
1033:	436	433	361	349	321	323	347	352
1041:	367	311	311	336	333	287	306	310
1049:	304	312	323	346	297	323	334	291
1057:	334	355	377	367	354	351	390	432
1065:	539	546	357	340	350	334	334	290
1073:	311	313	353	348	388	494	685	505
1081:	340	303	253	281	262	299	279	298
1089:	296	293	321	320	435	694	573	449
1097:	339	278	272	300	285	245	290	320
1105:	313	268	301	284	337	467	636	470
1113:	332	305	270	276	347	462	771	1828
1121:	2187	986	500	393	323	296	267	290
1129:	273	289	271	297	320	297	293	274
1137:	271	264	233	265	289	288	275	275
1145:	278	312	262	292	265	264	308	274
1153:	319	397	496	473	350	290	269	272
1161:	263	250	257	244	316	278	269	286
1169:	304	287	275	294	237	278	265	292
1177:	235	282	273	284	267	249	265	253
1185:	254	263	245	238	271	258	251	245
1193:	288	278	282	253	280	274	246	281
1201:	261	256	249	262	241	256	295	294
1209:	306	272	245	241	276	254	224	254
1217:	288	272	263	252	245	277	260	245
1225:	253	239	245	244	263	256	231	257
1233:	278	222	265	312	474	822	905	445
1241:	345	246	222	267	353	443	500	495
1249:	315	276	281	301	299	269	264	244
1257:	236	236	262	289	254	240	229	239
1265:	226	249	263	234	225	204	244	245
1273:	234	252	249	234	269	251	277	266
1281:	382	395	289	263	249	260	286	294
1289:	276	239	234	253	228	207	216	224
1297:	211	230	212	240	266	205	263	260
1305:	240	238	214	232	208	230	238	258
1313:	246	221	223	235	239	222	222	216
1321:	222	225	228	248	221	225	221	242
1329:	246	209	225	219	240	228	243	193
1337:	205	226	237	233	227	226	237	246
1345:	253	243	266	256	244	225	234	226
1353:	234	220	242	232	248	240	217	221
1361:	228	240	217	231	237	242	220	245
1369:	216	215	215	234	237	327	392	314
1377:	452	702	504	287	222	243	231	239
1385:	276	278	240	218	194	215	214	232

1393:	210	216	211	192	191	201	217	200
1401:	277	370	281	250	260	217	287	424
1409:	415	252	211	208	188	208	226	205
1417:	172	192	192	184	187	185	206	177
1425:	187	166	198	196	216	182	214	228
1433:	217	238	191	214	196	190	171	176
1441:	165	172	194	152	165	166	180	176
1449:	174	190	198	192	182	192	170	217
1457:	214	273	469	515	368	221	188	174
1465:	175	175	148	158	163	193	170	183
1473:	168	161	193	158	158	149	178	183
1481:	181	192	160	166	163	168	162	185
1489:	151	147	168	165	172	201	303	549
1497:	535	290	193	204	293	400	307	207
1505:	166	179	173	191	315	391	312	289
1513:	360	313	203	158	149	167	151	156
1521:	163	163	149	169	145	146	144	161
1529:	155	181	161	154	157	143	136	148
1537:	152	197	192	157	153	171	185	212
1545:	165	148	134	153	147	146	121	139
1553:	139	150	141	170	193	218	185	158
1561:	150	141	114	129	153	120	135	143
1569:	138	137	120	139	135	154	140	152
1577:	142	174	170	267	448	335	217	213
1585:	233	263	536	1233	1604	859	500	780
1593:	1079	708	352	183	168	145	168	170
1601:	154	134	121	128	118	119	139	141
1609:	119	138	134	149	135	139	127	130
1617:	148	175	218	400	818	701	327	201
1625:	262	253	209	200	254	491	810	656
1633:	299	138	140	151	169	270	338	245
1641:	131	112	125	113	103	130	123	111
1649:	135	111	115	107	114	129	106	126
1657:	125	141	134	128	172	222	186	162
1665:	151	151	186	217	134	121	110	119
1673:	137	100	133	120	119	140	165	197
1681:	141	113	140	141	152	162	148	153
1689:	115	113	116	122	126	132	121	123
1697:	115	116	111	101	141	132	166	150
1705:	125	106	125	119	118	100	120	115
1713:	119	126	109	94	99	111	104	111
1721:	113	123	124	118	132	112	134	145
1729:	280	393	349	174	128	106	100	117
1737:	137	152	140	116	114	108	106	128
1745:	114	124	89	130	112	116	120	127
1753:	126	100	114	108	115	117	135	136
1761:	162	237	323	854	1443	1107	410	183
1769:	160	119	114	115	116	114	104	133
1777:	103	100	122	115	114	101	116	122
1785:	111	113	117	104	127	141	108	95
1793:	112	107	110	93	119	108	97	117
1801:	105	113	99	114	106	163	176	138
1809:	132	108	104	105	109	123	101	106
1817:	121	129	101	108	115	120	129	119
1825:	129	114	119	105	94	116	104	155
1833:	143	118	146	120	123	118	129	130
1841:	119	138	156	107	156	155	216	280
1849:	258	188	118	132	124	121	124	117
1857:	136	116	130	113	116	120	130	90
1865:	99	96	131	124	119	122	129	145

1873:	128	134	141	117	134	98	145	128
1881:	105	122	115	107	142	108	147	180
1889:	126	142	131	125	110	118	129	124
1897:	156	117	113	138	110	113	128	122
1905:	111	138	141	134	126	98	129	130
1913:	131	134	139	137	116	124	122	118
1921:	107	127	133	147	120	122	109	126
1929:	123	142	123	124	118	109	130	146
1937:	129	133	125	114	130	136	138	121
1945:	120	134	119	138	114	122	111	136
1953:	121	112	129	135	124	115	111	112
1961:	118	119	114	130	114	118	106	122
1969:	123	105	117	142	118	118	122	112
1977:	120	151	114	118	103	109	127	100
1985:	108	95	125	117	117	115	101	120
1993:	106	108	134	100	114	119	107	111
2001:	121	118	115	107	108	133	117	110
2009:	129	119	127	128	117	122	105	118
2017:	124	110	92	137	108	118	124	113
2025:	124	94	118	105	114	116	109	122
2033:	102	103	123	96	119	129	107	138
2041:	117	115	108	124	137	111	108	111
2049:	121	118	111	108	108	119	118	107
2057:	100	107	100	111	133	115	133	103
2065:	112	115	137	118	102	131	114	94
2073:	116	110	124	89	118	116	103	114
2081:	120	90	111	122	123	114	120	111
2089:	111	126	125	130	81	130	114	125
2097:	113	120	152	156	272	472	795	1046
2105:	933	600	308	190	170	145	130	121
2113:	143	123	125	134	169	192	224	197
2121:	149	127	137	121	123	143	133	129
2129:	117	145	121	133	126	128	146	138
2137:	143	118	139	152	123	141	129	145
2145:	121	122	133	126	120	134	158	140
2153:	127	123	151	139	141	145	142	157
2161:	138	119	153	143	159	141	151	112
2169:	119	139	142	139	118	160	158	145
2177:	175	156	130	138	156	119	141	153
2185:	146	152	147	125	151	145	146	144
2193:	152	135	150	140	113	167	148	153
2201:	175	164	219	400	473	376	234	179
2209:	147	145	140	144	124	154	161	138
2217:	147	135	150	144	147	149	142	159
2225:	170	148	139	147	143	126	158	138
2233:	131	149	176	152	145	161	158	138
2241:	127	136	155	144	161	174	166	175
2249:	127	168	165	157	141	136	157	178
2257:	160	146	170	156	146	167	166	132
2265:	159	147	167	172	181	120	158	178
2273:	183	193	175	155	166	168	164	189
2281:	175	175	164	180	171	181	178	190
2289:	186	160	170	180	188	183	219	190
2297:	178	184	176	190	171	173	170	156
2305:	173	162	170	160	199	203	167	181
2313:	179	188	189	199	178	208	188	194
2321:	198	170	179	173	177	186	175	195
2329:	185	194	192	206	223	229	183	187
2337:	190	203	166	183	192	200	197	229
2345:	193	193	204	194	216	211	196	227

2353:	218	218	250	214	210	227	204	194
2361:	194	227	195	223	219	202	191	208
2369:	229	209	231	214	247	217	231	215
2377:	192	209	237	185	203	202	176	172
2385:	171	141	172	166	152	154	157	150
2393:	147	150	151	148	124	153	135	150
2401:	138	147	133	143	145	143	134	136
2409:	148	125	127	119	140	130	141	130
2417:	137	139	117	129	145	155	141	137
2425:	121	143	123	125	114	133	122	153
2433:	129	129	113	129	132	131	119	118
2441:	119	119	130	116	116	120	155	211
2449:	210	169	125	109	109	120	114	115
2457:	102	109	94	102	101	91	115	103
2465:	94	106	89	90	92	96	100	84
2473:	91	84	107	66	81	86	93	81
2481:	75	92	69	75	77	73	73	66
2489:	72	75	76	67	81	64	66	67
2497:	56	71	59	66	62	61	59	51
2505:	70	46	58	62	52	51	58	53
2513:	54	45	50	59	45	48	53	48
2521:	55	49	49	40	39	46	41	38
2529:	36	37	44	50	30	41	46	35
2537:	36	37	43	34	38	39	39	31
2545:	35	35	42	42	32	24	31	25
2553:	29	36	42	29	39	32	41	41
2561:	37	37	31	29	39	33	42	37
2569:	34	34	38	45	37	34	24	35
2577:	33	28	32	34	29	33	34	23
2585:	28	39	27	27	44	37	37	22
2593:	36	35	34	35	36	34	31	44
2601:	33	41	36	39	50	45	39	57
2609:	50	95	225	534	1478	3931	7484	7219
2617:	3496	989	314	146	82	41	40	25
2625:	40	45	36	28	35	40	35	42
2633:	33	45	31	31	23	23	28	31
2641:	28	34	32	34	28	34	31	36
2649:	27	33	26	31	27	30	35	35
2657:	26	27	28	23	25	36	34	35
2665:	31	25	29	19	23	28	33	34
2673:	22	25	16	17	26	28	45	28
2681:	27	36	27	31	31	41	61	78
2689:	75	59	53	48	47	28	29	22
2697:	24	23	32	40	24	34	23	39
2705:	25	19	21	14	29	20	30	24
2713:	22	26	16	15	22	16	23	25
2721:	17	21	27	21	18	26	21	20
2729:	18	16	15	18	22	30	24	20
2737:	21	22	16	18	19	29	27	26
2745:	20	24	18	17	15	28	22	19
2753:	24	26	17	24	25	35	25	19
2761:	19	16	24	22	25	29	20	25
2769:	20	14	14	22	17	14	13	19
2777:	30	31	27	20	13	27	24	18
2785:	25	28	20	22	20	22	15	28
2793:	18	17	18	25	20	22	16	26
2801:	24	13	13	14	15	15	16	19
2809:	20	26	17	21	16	24	21	21
2817:	18	14	29	28	27	22	14	27
2825:	17	25	25	23	25	18	25	22

2833:	21	23	17	15	26	15	16	22
2841:	17	15	9	19	16	14	20	17
2849:	23	16	12	17	24	18	14	23
2857:	18	18	17	18	14	16	19	20
2865:	12	16	18	25	28	16	29	16
2873:	18	17	15	17	16	18	14	17
2881:	19	18	11	15	19	19	20	13
2889:	20	16	27	43	39	30	30	28
2897:	17	18	11	15	13	15	15	13
2905:	19	20	25	12	21	13	10	8
2913:	15	23	11	18	12	12	16	15
2921:	23	14	13	13	13	17	14	20
2929:	19	26	15	10	19	16	27	26
2937:	19	16	16	19	14	12	17	15
2945:	16	13	19	24	21	22	12	21
2953:	16	15	22	15	12	12	21	20
2961:	14	14	18	11	18	13	11	18
2969:	13	16	13	16	17	11	17	15
2977:	12	15	11	15	11	10	13	19
2985:	14	11	13	13	19	18	14	18
2993:	5	16	7	14	14	11	12	15
3001:	12	13	24	17	20	7	8	11
3009:	15	14	11	14	12	9	12	9
3017:	13	12	14	11	12	12	12	8
3025:	8	12	7	7	9	5	14	9
3033:	10	5	3	8	9	13	10	7
3041:	7	5	4	9	15	7	9	13
3049:	2	9	12	5	9	8	8	5
3057:	10	12	7	3	12	6	13	6
3065:	9	8	10	5	10	10	10	7
3073:	8	4	8	6	7	6	5	7
3081:	4	7	10	5	4	9	4	8
3089:	3	4	4	10	5	9	3	5
3097:	6	5	5	8	3	2	6	4
3105:	4	2	5	6	5	2	2	4
3113:	6	7	3	2	4	4	4	6
3121:	8	5	13	20	37	59	50	27
3129:	7	3	4	1	1	1	1	4
3137:	2	3	2	8	6	2	6	2
3145:	4	3	8	2	4	2	5	5
3153:	2	4	3	3	5	1	8	2
3161:	7	3	3	6	4	5	3	6
3169:	1	6	4	7	2	2	3	7
3177:	5	4	1	3	3	1	4	3
3185:	3	3	6	1	2	7	6	9
3193:	8	14	20	44	110	192	186	106
3201:	33	13	7	4	5	2	4	5
3209:	4	6	3	4	1	6	4	2
3217:	3	3	5	3	3	0	6	4
3225:	6	3	3	2	2	3	4	3
3233:	2	4	6	3	1	1	1	2
3241:	3	4	2	7	1	3	4	5
3249:	4	2	2	3	0	1	4	2
3257:	0	4	2	3	1	2	1	3
3265:	0	3	1	1	0	3	5	3
3273:	3	3	1	4	2	0	3	1
3281:	2	5	4	3	3	5	2	2
3289:	0	3	4	2	3	3	2	2
3297:	5	2	0	1	1	3	4	1
3305:	2	4	1	1	2	0	3	1

3313:	1	0	0	1	1	2	0	4
3321:	2	1	2	3	1	2	4	3
3329:	1	1	0	2	1	2	3	2
3337:	3	3	2	3	2	2	1	2
3345:	1	0	1	0	3	0	1	1
3353:	1	2	2	3	0	1	2	0
3361:	2	1	2	3	2	0	1	3
3369:	2	1	2	1	2	3	0	2
3377:	3	7	8	4	5	1	3	0
3385:	0	0	1	0	0	2	1	1
3393:	2	0	3	1	0	0	2	2
3401:	2	2	2	1	4	0	2	0
3409:	2	1	4	1	0	2	0	0
3417:	0	1	0	2	2	1	2	0
3425:	0	1	1	0	1	0	1	0
3433:	1	0	0	0	0	0	1	0
3441:	2	1	0	0	0	0	1	0
3449:	3	1	0	2	0	2	0	1
3457:	0	1	0	1	1	2	0	2
3465:	0	0	1	1	1	1	0	1
3473:	1	10	20	21	12	8	4	2
3481:	0	4	0	1	1	2	1	0
3489:	3	2	1	0	2	2	2	1
3497:	1	1	0	1	0	1	2	0
3505:	0	0	1	0	2	0	0	2
3513:	0	0	0	0	1	0	0	2
3521:	1	2	3	0	0	0	1	0
3529:	2	1	1	0	1	1	0	1
3537:	0	1	0	1	1	0	0	0
3545:	0	0	2	1	2	1	2	0
3553:	0	2	1	0	2	1	0	1
3561:	0	1	1	1	3	1	0	1
3569:	0	2	1	2	0	1	2	3
3577:	0	1	0	0	1	0	1	0
3585:	1	1	0	0	0	0	0	0
3593:	0	1	0	1	0	1	1	1
3601:	0	0	1	1	0	0	1	1
3609:	0	0	0	1	0	0	2	0
3617:	0	0	0	1	2	0	1	0
3625:	0	0	1	1	0	1	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	2	0	0	1	0	0
3649:	0	1	0	2	0	0	0	2
3657:	0	1	0	0	1	1	0	1
3665:	0	1	0	0	0	0	0	1
3673:	0	0	0	0	0	1	0	2
3681:	0	1	1	0	1	2	0	0
3689:	1	0	0	0	0	2	1	2
3697:	0	0	1	1	0	0	2	1
3705:	0	0	1	1	1	0	1	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	1	0	2
3729:	2	0	0	0	1	1	0	0
3737:	0	1	0	0	0	0	0	0
3745:	1	1	0	0	0	0	1	0
3753:	0	0	0	0	0	1	0	0
3761:	0	1	1	0	1	0	0	1
3769:	0	0	1	0	0	1	0	0
3777:	1	2	0	0	0	0	0	0
3785:	1	1	1	0	0	0	0	2

3793:	0	0	0	2	0	1	0	0
3801:	0	1	1	0	0	0	0	0
3809:	0	0	2	0	0	0	0	0
3817:	1	0	0	0	0	0	0	1
3825:	1	0	1	0	0	0	0	1
3833:	1	0	0	2	0	0	0	1
3841:	0	2	0	0	0	0	0	0
3849:	0	1	0	0	0	1	0	2
3857:	0	0	0	0	1	0	1	1
3865:	1	1	1	0	1	0	1	1
3873:	0	0	0	0	0	0	0	0
3881:	1	0	1	0	0	0	0	0
3889:	0	0	1	0	1	0	1	0
3897:	1	0	1	0	0	0	0	0
3905:	1	0	0	0	0	1	1	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	1	0	0	0	0	1	1
3937:	0	0	0	0	0	1	0	0
3945:	0	0	0	0	0	0	0	0
3953:	2	0	0	0	0	0	0	0
3961:	1	1	1	0	0	0	1	0
3969:	0	0	0	0	0	1	0	0
3977:	0	1	0	0	1	0	1	0
3985:	0	0	0	0	0	1	0	0
3993:	1	0	0	0	0	0	0	0
4001:	0	1	0	0	0	0	0	0
4009:	1	0	1	1	0	1	0	0
4017:	0	0	1	0	0	0	0	1
4025:	0	0	0	0	0	0	0	1
4033:	1	0	0	1	0	2	2	1
4041:	0	0	0	1	0	0	0	0
4049:	1	0	0	0	0	0	0	0
4057:	0	1	0	1	0	0	1	0
4065:	0	0	0	0	0	0	0	0
4073:	0	1	0	0	0	0	0	0
4081:	0	0	0	0	0	0	1	0
4089:	1	0	1	1	0	0	0	0

KVM 7910

Sample ID : 1006061-10 Acquisition date : 9-JUL-2010 07:34:53

VAX/VMS Peak Search Report Generated 9-JUL-2010 08:35:13.99

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606110_GE4_GAS1002_151301.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-7
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 07:34:53.
Sample ID : 1006061-10 Sample Quantity : 6.49000E+01 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:03.23 0.1%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	62.50*	116	1542	2.15	62.48	61	6	109.1		TH-234
6	68.29	366	995	2.78	68.28	66	16	25.5	5.63E+01	
6	76.49*	5307	2269	3.37	76.47	66	16	4.5		
4	87.18	1302	1440	2.81	87.16	82	16	12.0	1.47E+01	EU-155
										NP-237
										SN-126
										CD-109
4	90.38	960	1281	2.77	90.35	82	16	16.7		
4	93.66*	1004	805	1.90	93.63	82	16	12.2		
5	100.02	248	509	1.99	99.99	98	12	28.9	1.90E+00	LU-173
5	105.48	223	863	1.96	105.45	98	12	43.2		EU-155
0	115.67	180	983	2.08	115.64	112	8	62.6		
0	129.40	329	941	1.88	129.36	125	7	32.8		
2	151.46	66	189	1.96	151.42	150	11	52.6	2.84E+00	
2	154.63	151	665	2.40	154.58	150	11	59.9		
0	185.88*	179	921	2.43	185.82	182	9	63.3		RA-226
0	198.55*	130	745	5.18	198.48	194	9	78.3		
0	208.80	507	901	2.09	208.73	203	11	24.6		
1	233.88	46	215	2.24	233.80	232	15	87.2	2.33E+01	
1	239.13*	4369	467	2.25	239.04	232	15	3.6		PB-212
2	270.75	381	352	2.50	270.65	264	18	18.9	3.70E+00	LU-173
2	277.53	206	346	2.50	277.43	264	18	33.7		
0	288.41	58	269	1.32	288.31	286	6	93.6		
3	295.60*	263	399	2.66	295.49	291	15	28.4	2.29E+00	PB-214
3	300.60	279	321	2.45	300.49	291	15	24.7		PB-212
0	311.53	50	306	2.14	311.42	308	8	123.8		PA-233
0	328.04	209	406	1.90	327.92	324	8	36.2		
0	338.66*	791	519	2.20	338.53	334	11	13.2		AC-228
0	352.50*	333	383	2.24	352.37	348	10	24.7		PB-214
0	376.80	66	228	3.16	376.66	374	7	79.8		
0	409.94	102	321	1.59	409.78	405	9	66.7		
0	463.79	223	230	2.03	463.62	459	10	28.9		
0	511.21*	345	235	2.31	511.01	507	10	20.3		
0	560.82	57	237	1.31	560.60	556	10	103.8		
0	583.51*	1089	275	2.15	583.28	577	12	8.6		TL-208
0	610.34*	219	224	2.41	610.10	604	13	31.5		

AG 7/12/10

Sample ID : 1006061-10 Acquisition date : 9-JUL-2010 07:34:53

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	727.53	212	133	2.56	727.24	722	9	24.0		BI-212
0	755.61	88	127	5.79	755.31	750	11	54.1		
0	771.46	107	144	1.90	771.15	765	12	49.0		
1	782.31	30	90	2.30	782.00	779	11	111.9	2.21E+00	
1	786.31	44	84	2.30	786.00	779	11	76.3		
0	795.70	146	82	2.40	795.39	791	9	28.2		
0	835.74	27	58	1.53	835.40	834	6	96.3		MN-54
0	842.18	38	52	4.23	841.84	839	7	71.0		
5	861.02	103	32	2.19	860.68	856	14	27.6	1.70E+00	TL-208
5	865.92	30	38	3.75	865.58	856	14	101.4		
3	904.18	31	45	3.11	903.82	899	21	81.7	7.96E-01	
3	911.67	577	31	2.38	911.31	899	21	8.9		AC-228
1	965.33	107	51	2.32	964.95	961	15	28.2	1.71E+00	
1	969.41	348	32	2.23	969.02	961	15	12.5		AC-228
0	1120.63	30	69	2.31	1120.18	1115	10	108.0		
0	1143.51	24	20	3.03	1143.06	1137	10	79.9		
0	1379.21	14	15	4.52	1378.66	1375	7	111.1		
0	1503.47	15	11	1.37	1502.86	1500	7	90.8		
1	1581.89	13	9	2.79	1581.25	1577	23	109.3	1.77E+00	
1	1588.90	44	11	2.79	1588.25	1577	23	47.7		
1	1593.39	56	14	2.80	1592.75	1577	23	42.0		
0	1621.56	32	20	4.49	1620.91	1617	10	63.1		BI-212
0	1634.06	35	25	9.54	1633.40	1627	15	73.0		
1	1668.51	10	9	2.82	1667.83	1661	18	135.6	7.69E-01	
1	1675.42	11	5	2.82	1674.74	1661	18	112.4		
0	1767.13	25	36	2.21	1766.42	1759	14	110.0		
0	1924.77	17	15	1.23	1923.99	1916	13	111.0		
0	2053.20	11	3	1.73	2052.36	2049	6	78.2		
0	2087.49	13	2	2.94	2086.65	2084	6	70.1		
0	2105.08	42	27	3.86	2104.23	2098	12	58.5		
0	2143.86	8	6	1.33	2142.99	2139	7	135.3		
0	2176.18	6	5	2.62	2175.29	2172	6	135.3		
0	2185.66	13	8	1.90	2184.77	2182	8	93.6		
0	2435.23	48	27	23.25	2434.24	2418	28	68.2		
0	2450.70	11	2	2.96	2449.70	2446	9	80.7		
0	2615.77*	293	6	2.79	2614.70	2609	11	12.1		TL-208

Summary of Nuclide Activity
Sample ID : 1006061-10 Acquisition date : 9-JUL-2010 07:34:53

Total number of lines in spectrum	69	
Number of unidentified lines	34	
Number of lines tentatively identified by NID	35	50.72%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	1.136E+00	1.234E+00	1.196E+00	96.94	
LU-173	1.37Y	1.05	2.675E+01	2.817E+01	0.545E+01	19.34	
			---	---			
Total Activity :			2.789E+01	2.940E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	2.508E+02	2.652E+02	0.449E+02	16.94	
SN-126	1.00E+05Y	1.00	2.521E+01	2.521E+01	0.399E+01	15.84	
EU-155	4.96Y	1.01	7.936E+00	8.050E+00	3.583E+00	44.51	
NP-237	2.14E+06Y	1.00	7.396E+01	7.396E+01	1.167E+01	15.77	
			---	---			
Total Activity :			3.579E+02	3.724E+02			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	8.720E+01	8.720E+01	0.956E+01	10.96	
BI-212	1.41E+10Y	1.00	6.815E+01	6.815E+01	1.698E+01	24.91	
PB-212	1.41E+10Y	1.00	1.185E+02	1.185E+02	0.148E+02	12.45	
PB-214	1602.00Y	1.00	1.701E+01	1.701E+01	0.371E+01	21.78	
RA-226	1602.00Y	1.00	5.382E+01	5.382E+01	10.43E+01	193.85	
AC-228	1.41E+10Y	1.00	1.014E+02	1.014E+02	0.095E+02	9.33	
PA-233	27.00D	2.61	2.007E+00	5.234E+00	6.621E+00	126.51	
TH-234	4.47E+09Y	1.00	2.273E+01	2.273E+01	2.489E+01	109.48	
			---	---			
Total Activity :			4.709E+02	4.741E+02			

Grand Total Activity : 8.567E+02 8.759E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-10 Acquisition date : 9-JUL-2010 07:34:53

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
MN-54	834.83	99.97*	2.727E-01	1.136E+00	1.234E+00	96.94	OK
Final Mean for 1 Valid Peaks = 1.234E+00+/- 1.196E+00 (96.94%)							
LU-173	100.72	5.24	1.584E+00	3.458E+01	3.642E+01	30.81	OK
	272.11	21.20*	8.545E-01	2.433E+01	2.563E+01	24.32	OK
Final Mean for 2 Valid Peaks = 2.817E+01+/- 5.448E+00 (19.34%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	1.615E+00	2.508E+02	2.652E+02	16.94	OK
Final Mean for 1 Valid Peaks = 2.652E+02+/- 4.491E+01 (16.94%)							
SN-126	87.57	37.00*	1.615E+00	2.521E+01	2.521E+01	15.84	OK
Final Mean for 1 Valid Peaks = 2.521E+01+/- 3.993E+00 (15.84%)							
EU-155	86.50	30.90*	1.617E+00	3.016E+01	3.059E+01	15.77	<<WM Interf
	105.30	20.70	1.567E+00	7.936E+00	8.050E+00	44.51	OK
Final Mean for 1 Valid Peaks = 8.050E+00+/- 3.583E+00 (44.51%)							
NP-237	86.50	12.60*	1.617E+00	7.396E+01	7.396E+01	15.77	OK
Final Mean for 1 Valid Peaks = 7.396E+01+/- 1.167E+01 (15.77%)							

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TL-208	583.14	30.22*	3.936E-01	1.059E+02	1.059E+02	16.38	OK
	860.37	4.48	2.647E-01	1.008E+02	1.008E+02	29.74	OK
	2614.66	35.85	1.255E-01	7.532E+01	7.532E+01	16.46	OK
Final Mean for 3 Valid Peaks = 8.720E+01+/- 9.559E+00 (10.96%)							
BI-212	727.17	11.80*	3.131E-01	6.625E+01	6.625E+01	26.93	OK
	1620.62	2.75	1.562E-01	8.619E+01	8.619E+01	63.96	OK
Final Mean for 2 Valid Peaks = 6.815E+01+/- 1.698E+01 (24.91%)							
PB-212	238.63	44.60*	9.611E-01	1.179E+02	1.179E+02	13.75	OK
	300.09	3.41	7.792E-01	1.216E+02	1.216E+02	29.27	OK
Final Mean for 2 Valid Peaks = 1.185E+02+/- 1.475E+01 (12.45%)							

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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
PB-214	295.21	19.19	7.915E-01	2.003E+01	2.003E+01	32.47	OK
	351.92	37.19*	6.661E-01	1.556E+01	1.556E+01	28.98	OK
Final Mean for 2 Valid Peaks = 1.701E+01+/- 3.705E+00 (21.78%)							
RA-226	186.21	3.28*	1.172E+00	5.382E+01	5.382E+01	193.85	OK
Final Mean for 1 Valid Peaks = 5.382E+01+/- 1.043E+02 (193.85%)							
AC-228	338.32	11.40	6.929E-01	1.158E+02	1.158E+02	20.29	OK
	911.07	27.70*	2.505E-01	9.621E+01	9.621E+01	13.72	OK
	969.11	16.60	2.363E-01	1.026E+02	1.026E+02	16.24	OK
Final Mean for 3 Valid Peaks = 1.014E+02+/- 9.467E+00 (9.33%)							
PA-233	311.98	38.60*	7.505E-01	2.007E+00	5.234E+00	126.51	OK
Final Mean for 1 Valid Peaks = 5.234E+00+/- 6.621E+00 (126.51%)							
TH-234	63.29	3.80*	1.551E+00	2.273E+01	2.273E+01	109.48	OK
Final Mean for 1 Valid Peaks = 2.273E+01+/- 2.489E+01 (109.48%)							

Flag: "*" = Keyline

Sample ID : 1006061-10
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---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
MN-54	1.234E+00	1.196E+00	1.843E+00	1.946E-01	0.669
CD-109	2.652E+02	4.491E+01	2.887E+01	3.265E+00	9.187
SN-126	2.521E+01	3.993E+00	2.743E+00	2.632E-01	9.188
EU-155	8.050E+00	3.583E+00	3.329E+00	3.158E-01	2.418
LU-173	2.817E+01	5.448E+00	5.764E+00	8.515E-01	4.888
TL-208	8.720E+01	9.559E+00	5.609E+00	7.484E-01	15.547
BI-212	6.815E+01	1.698E+01	1.645E+01	1.909E+00	4.141
PB-212	1.185E+02	1.475E+01	2.720E+00	3.443E-01	43.580
PB-214	1.701E+01	3.705E+00	3.673E+00	5.362E-01	4.631
RA-226	5.382E+01	1.043E+02	3.623E+01	6.638E+01	1.485
AC-228	1.014E+02	9.467E+00	5.789E+00	5.561E-01	17.521
PA-233	5.234E+00	6.621E+00	7.886E+00	2.025E+00	0.664
TH-234	2.273E+01	2.489E+01	3.373E+01	2.555E+00	0.674
NP-237	7.396E+01	1.167E+01	8.048E+00	7.634E-01	9.190

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-3.683E+00		1.398E+01	2.315E+01	3.248E+00	-0.159
NA-22	1.498E-01		1.052E+00	1.966E+00	1.859E-01	0.076
AL-26	1.498E-01		1.077E+00	2.033E+00	1.846E-01	0.074
K-40	9.838E+00		1.043E+01	2.090E+01	2.068E+00	0.471
TI-44	2.841E+00	+	7.668E-01	1.526E+00	1.201E-01	1.862
SC-46	3.032E-01		1.179E+00	2.213E+00	2.156E-01	0.137
V-48	9.184E-01		4.014E+00	7.642E+00	7.346E-01	0.120
CR-51	-3.724E+00		2.770E+01	3.237E+01	4.968E+00	-0.115
CO-56	2.634E-01		1.475E+00	2.285E+00	2.375E-01	0.115
CO-57	1.354E-01		1.042E+00	1.258E+00	1.297E-01	0.108
CO-58	-9.565E-01		1.482E+00	2.357E+00	2.563E-01	-0.406
FE-59	7.576E-01		2.962E+00	5.596E+00	5.609E-01	0.135
CO-60	-2.075E-01		8.489E-01	1.543E+00	1.399E-01	-0.135
ZN-65	5.579E-01		2.519E+00	4.189E+00	3.907E-01	0.133
SE-75	-1.698E+00		1.648E+00	2.316E+00	3.317E-01	-0.733
RB-82	4.192E+00		3.541E+01	4.207E+01	4.719E+00	0.100
RB-83	2.198E+00		3.411E+00	5.275E+00	1.007E+00	0.417
KR-85	1.337E+03		3.831E+02	5.911E+02	8.250E+01	2.262
SR-85	8.657E+00		2.480E+00	3.826E+00	5.341E-01	2.262
Y-88	-7.945E-02		1.158E+00	2.171E+00	1.953E-01	-0.037
NB-93M	3.237E+02		1.561E+02	7.963E+01	3.703E+01	4.065
NB-94	-4.885E-01		1.091E+00	1.549E+00	1.554E-01	-0.315
NB-95	2.601E+00		3.622E+00	4.629E+00	5.240E-01	0.562
ZR-95	9.207E+00	+	5.114E+00	6.175E+00	7.450E-01	1.491
RU-103	-5.507E-01		2.044E+00	3.377E+00	6.066E-01	-0.163
RU-106	9.348E+00		1.230E+01	1.948E+01	3.176E+00	0.480
AG-108M	2.938E-01		1.547E+00	2.332E+00	2.711E-01	0.126
AG-110M	-2.351E-01		1.418E+00	2.345E+00	2.802E-01	-0.100
SN-113	-1.090E-01		1.712E+00	2.863E+00	3.924E-01	-0.038

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---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TE123M	-1.122E-01		1.031E+00	1.550E+00	1.406E-01	-0.072
SB-124	-1.390E+00		1.864E+00	2.592E+00	3.383E-01	-0.536
I-125	-2.848E+01		2.151E+01	3.521E+01	3.891E+00	-0.809
SB-125	1.433E+00		3.051E+00	5.235E+00	7.306E-01	0.274
SB-126	-4.305E+00		2.058E+01	3.001E+01	3.493E+00	-0.143
I-129	5.047E-01		1.942E+00	3.347E+00	4.678E-01	0.151
I-131	-6.912E+00		2.525E+01	4.187E+01	5.996E+00	-0.165
BA-133	1.381E+00		1.660E+00	2.565E+00	4.521E-01	0.538
CS-134	4.694E-01		1.211E+00	1.867E+00	2.434E-01	0.251
CS-135	2.110E+01		5.930E+00	9.504E+00	1.380E+00	2.220
CS-136	-1.175E+00		7.829E+00	1.429E+01	1.395E+00	-0.082
CS-137	-5.423E-02		1.400E+00	2.334E+00	2.770E-01	-0.023
LA-138	-3.346E-01		1.251E+00	2.280E+00	2.208E-01	-0.147
CE-139	1.182E+00		1.022E+00	1.691E+00	1.488E-01	0.699
BA-140	2.678E+01		3.275E+01	5.496E+01	1.916E+01	0.487
LA-140	2.503E+01		1.128E+01	2.274E+01	2.173E+00	1.101
CE-141	4.027E+00		3.398E+00	5.052E+00	1.382E+00	0.797
CE-144	1.112E+00		6.703E+00	1.019E+01	1.014E+00	0.109
PM-144	-4.488E-01		1.353E+00	2.211E+00	2.602E-01	-0.203
PM-145	-6.470E-01		3.960E+00	6.710E+00	4.387E+00	-0.096
PM-146	-3.859E-01		2.643E+00	3.911E+00	5.468E-01	-0.099
ND-147	-7.361E+01		7.973E+01	1.254E+02	1.739E+01	-0.587
EU-152	-2.649E-01		7.253E+00	1.330E+01	1.565E+00	-0.020
GD-153	7.473E+00		3.902E+00	5.652E+00	5.557E-01	1.322
EU-154	4.455E-01		2.909E+00	5.441E+00	5.145E-01	0.082
EU-156	-2.955E+01		5.481E+01	8.756E+01	2.082E+01	-0.338
HO-166M	1.673E+00		2.310E+00	4.013E+00	4.690E-01	0.417
HF-172	1.175E+01		6.393E+00	1.004E+01	1.023E+00	1.170
LU-172	7.618E+01		6.900E+01	1.402E+02	1.317E+01	0.543
HF-175	3.585E-01		2.135E+00	2.549E+00	3.762E-01	0.141
LU-176	4.395E-01		1.019E+00	1.257E+00	1.909E-01	0.350
TA-182	6.078E+00	+	6.594E+00	8.695E+00	8.082E-01	0.699
IR-192	2.589E-01		2.991E+00	4.506E+00	6.317E-01	0.057
HG-203	6.400E+00		2.233E+00	3.402E+00	5.235E-01	1.881
BI-207	1.107E+00		1.188E+00	1.894E+00	2.559E-01	0.585
BI-210M	-1.775E+00		1.758E+00	2.477E+00	3.496E-01	-0.717
PB-210	1.090E+01		1.810E+01	3.135E+01	2.665E+00	0.348
PB-211	9.585E+00		3.598E+01	5.453E+01	7.454E+00	0.176
BI-214	1.456E+01	+	4.991E+00	5.720E+00	7.402E-01	2.545
RN-219	2.634E+00		1.565E+01	2.362E+01	3.222E+00	0.112
RA-223	2.098E+01		2.314E+01	3.602E+01	5.417E+00	0.582
RA-224	1.322E+03		1.827E+02	9.928E+01	1.271E+01	13.312
RA-225	1.379E+01		1.505E+01	2.612E+01	2.534E+00	0.528
TH-227	2.410E+02		3.374E+01	2.565E+01	3.206E+00	9.395
TH-230	7.246E+02	+	1.955E+02	3.897E+02	3.062E+01	1.860
PA-231	1.840E+02		5.431E+01	7.055E+01	1.073E+01	2.607
TH-231	-4.393E+00		1.004E+01	1.698E+01	3.029E+00	-0.259
PA-234	1.595E+01		3.909E+00	6.024E+00	6.037E-01	2.648

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---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234M	-3.233E-01		8.871E+01	1.649E+02	1.582E+01	-0.002
U-235	1.131E+01		6.558E+00	1.053E+01	1.897E+00	1.074
AM-241	4.803E+00		2.260E+00	3.576E+00	2.633E-01	1.343
AM-243	4.193E+01		4.367E+00	3.830E+00	3.215E-01	10.947
CM-243	2.032E+01	+	7.555E+00	1.097E+01	1.660E+00	1.853

Sample ID : 1006061-10 Acquisition date : 9-JUL-2010 07:34:53

Total number of lines in spectrum	69	
Number of unidentified lines	34	
Number of lines tentatively identified by NID	35	50.72%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	1.136E+00	1.234E+00	1.196E+00	96.94	
LU-173	1.37Y	1.05	2.675E+01	2.817E+01	0.545E+01	19.34	
			---	---			
Total Activity :			2.789E+01	2.940E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	2.508E+02	2.652E+02	0.449E+02	16.94	
SN-126	1.00E+05Y	1.00	2.521E+01	2.521E+01	0.399E+01	15.84	
EU-155	4.96Y	1.01	7.936E+00	8.050E+00	3.583E+00	44.51	
NP-237	2.14E+06Y	1.00	7.396E+01	7.396E+01	1.167E+01	15.77	
			---	---			
Total Activity :			3.579E+02	3.724E+02			

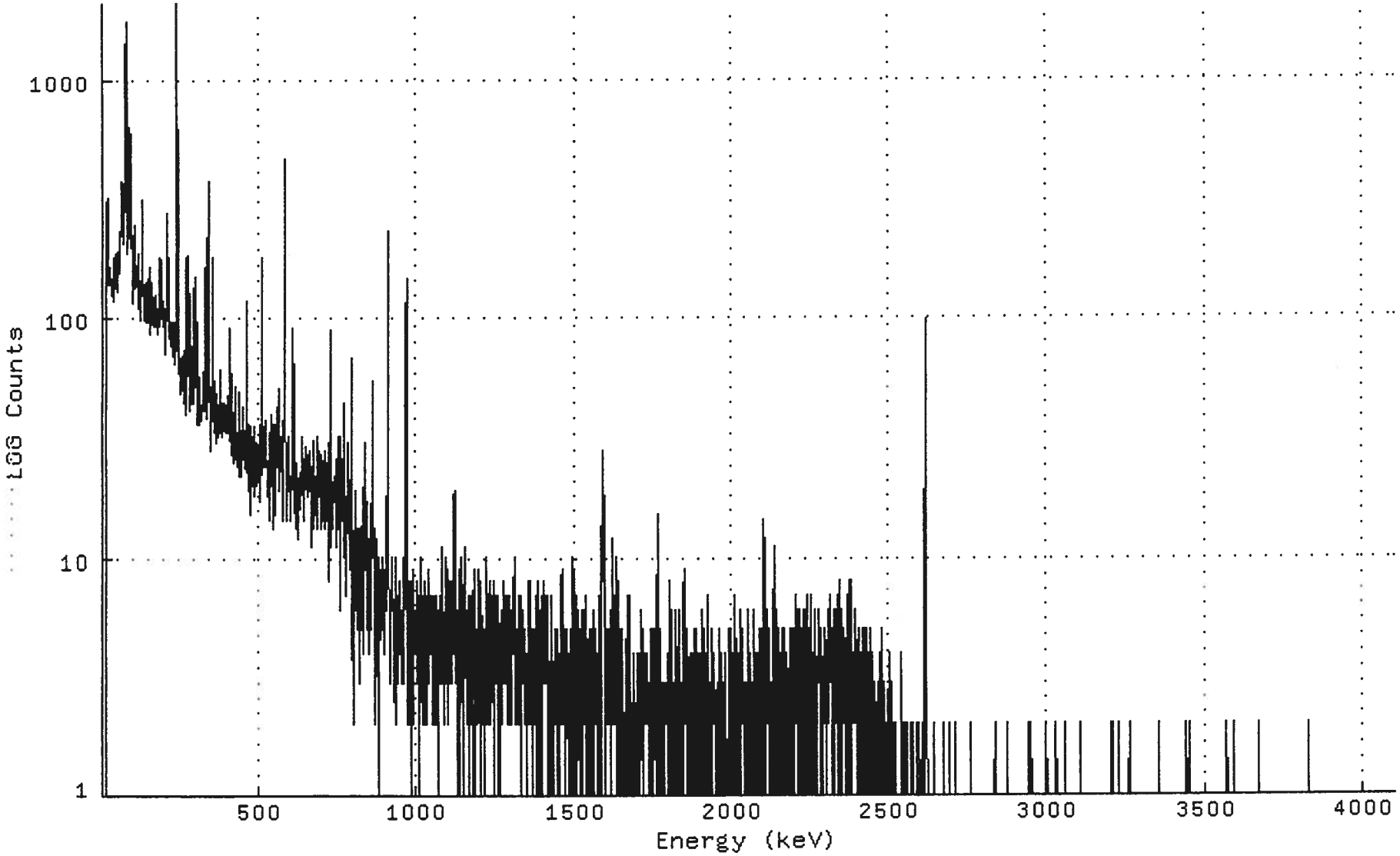
Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	8.720E+01	8.720E+01	0.956E+01	10.96	
BI-212	1.41E+10Y	1.00	6.815E+01	6.815E+01	1.698E+01	24.91	
PB-212	1.41E+10Y	1.00	1.185E+02	1.185E+02	0.148E+02	12.45	
PB-214	1602.00Y	1.00	1.701E+01	1.701E+01	0.371E+01	21.78	
RA-226	1602.00Y	1.00	5.382E+01	5.382E+01	10.43E+01	193.85	
AC-228	1.41E+10Y	1.00	1.014E+02	1.014E+02	0.095E+02	9.33	
PA-233	27.00D	2.61	2.007E+00	5.234E+00	6.621E+00	126.51	
TH-234	4.47E+09Y	1.00	2.273E+01	2.273E+01	2.489E+01	109.48	
			---	---			
Total Activity :			4.709E+02	4.741E+02			

Grand Total Activity : 8.567E+02 8.759E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606110_GE4_GAS1002_151301.CNF;1
Title :
Sample Title: S-7
Start Time: 9-JUL-2010 07:34: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:03.23 Sample ID : 1006061-10 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606110_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	3	291
17:	316	253	268	203	138	150	164	145
25:	149	149	139	147	134	148	138	132
33:	146	124	133	117	140	157	155	182
41:	168	136	134	161	146	183	191	163
49:	136	153	130	181	167	194	155	167
57:	172	213	251	222	221	263	349	371
65:	299	205	360	363	336	279	277	304
73:	390	774	1318	1183	1743	1591	439	189
81:	195	220	218	302	349	360	633	634
89:	401	536	408	321	538	599	252	152
97:	125	116	206	220	199	141	134	161
105:	243	216	177	150	137	169	145	139
113:	152	137	188	170	135	122	120	98
121:	118	122	115	138	144	124	132	184
129:	308	238	140	117	138	102	107	97
137:	119	119	103	96	141	113	123	134
145:	147	131	121	113	103	86	121	107
153:	129	142	165	124	94	113	115	96
161:	95	93	110	106	110	110	120	124
169:	104	102	111	92	100	102	86	100
177:	105	103	100	122	99	92	112	108
185:	141	182	174	110	107	100	116	104
193:	98	92	96	108	93	118	104	106
201:	94	71	76	88	108	101	100	113
209:	272	256	127	85	82	98	102	98
217:	79	77	95	76	84	79	75	78
225:	96	83	86	70	95	83	65	79
233:	75	93	74	79	198	1276	2108	1064
241:	360	215	119	59	60	64	61	68
249:	64	48	64	54	68	50	66	52
257:	69	67	74	44	44	49	56	46
265:	53	48	51	39	93	181	185	77
273:	58	58	62	62	132	121	81	75
281:	41	57	59	44	44	44	57	76
289:	45	58	47	44	62	89	129	142
297:	62	52	76	150	137	69	57	45
305:	47	39	36	41	45	36	53	57
313:	46	41	37	39	43	40	37	45
321:	41	44	57	50	60	42	109	164
329:	99	50	41	56	42	49	38	43
337:	135	352	370	120	62	55	45	45
345:	52	28	49	36	50	37	113	182
353:	125	52	43	45	37	33	36	55
361:	42	48	40	36	36	41	30	46
369:	34	43	43	42	32	32	51	36
377:	61	46	34	34	32	44	40	34
385:	43	37	44	44	34	43	36	41
393:	39	43	42	40	33	43	43	33
401:	33	47	42	40	47	31	45	41
409:	66	91	39	31	32	27	40	35
417:	35	31	40	31	25	31	27	31
425:	32	39	52	26	25	28	24	29

433:	33	29	36	22	28	37	49	36
441:	26	22	34	23	30	29	28	26
449:	42	30	36	34	29	34	28	25
457:	27	31	24	23	35	54	117	83
465:	39	31	27	20	19	36	25	32
473:	24	35	26	25	15	26	32	25
481:	22	28	23	29	18	20	30	35
489:	25	20	29	21	26	26	30	21
497:	26	25	23	28	28	32	26	36
505:	20	26	17	29	56	115	180	107
513:	36	35	34	24	26	28	34	37
521:	33	32	24	31	26	25	18	21
529:	20	25	22	25	14	28	30	33
537:	30	27	35	21	26	20	39	13
545:	24	36	22	28	24	25	15	20
553:	36	18	19	22	26	27	27	35
561:	25	35	51	25	21	32	19	28
569:	32	25	26	27	27	24	22	14
577:	28	22	37	28	37	141	470	409
585:	109	40	23	24	26	19	21	14
593:	25	32	23	22	26	21	18	14
601:	21	15	22	18	20	20	25	39
609:	83	90	46	25	19	21	25	17
617:	13	21	25	18	22	23	21	12
625:	18	21	18	12	20	19	22	20
633:	23	16	20	22	32	20	20	20
641:	21	22	18	14	26	23	24	21
649:	24	23	29	22	20	18	27	22
657:	22	20	21	19	25	25	19	21
665:	28	21	18	22	22	20	11	19
673:	18	31	13	23	21	18	20	22
681:	21	20	15	20	18	25	13	25
689:	32	25	20	18	20	21	21	16
697:	24	20	24	13	27	24	21	23
705:	17	24	15	13	26	24	28	21
713:	17	25	15	17	18	21	24	8
721:	21	12	24	21	19	48	89	81
729:	40	11	15	20	13	19	20	19
737:	21	20	19	21	18	22	19	17
745:	26	15	19	14	11	16	13	24
753:	21	22	32	19	32	17	13	6
761:	14	16	18	16	14	23	26	24
769:	16	10	22	44	29	18	18	7
777:	12	17	10	11	14	25	22	13
785:	25	30	15	15	9	14	10	10
793:	18	44	69	42	26	7	2	12
801:	12	11	11	12	14	11	7	9
809:	19	6	6	5	9	12	8	13
817:	10	13	3	10	10	10	11	10
825:	5	6	10	5	12	15	10	6
833:	5	4	13	30	19	10	9	18
841:	16	13	17	10	7	5	12	5
849:	7	7	10	12	4	9	5	5
857:	7	7	7	41	55	20	12	12
865:	10	11	13	4	6	2	10	10
873:	8	7	12	10	10	0	8	10
881:	7	5	4	5	8	9	6	8
889:	7	7	9	5	9	10	8	5
897:	7	6	4	6	9	6	10	18
905:	7	7	7	9	19	99	229	184

913:	59	11	5	6	6	7	3	5
921:	7	6	10	6	7	9	5	5
929:	4	5	5	3	2	10	5	4
937:	8	4	5	6	3	5	5	6
945:	8	7	6	4	8	4	6	5
953:	3	3	5	6	3	7	4	10
961:	6	4	9	36	51	32	20	90
969:	146	95	17	2	2	5	2	4
977:	2	2	7	8	1	8	1	4
985:	6	7	7	4	9	6	2	5
993:	5	6	5	6	6	4	4	8
1001:	6	5	3	3	6	3	5	3
1009:	3	7	1	6	3	5	4	5
1017:	10	3	2	6	5	7	5	4
1025:	4	6	8	2	4	3	2	7
1033:	5	5	3	3	9	5	6	4
1041:	4	7	6	4	5	7	4	7
1049:	4	2	6	6	5	5	5	6
1057:	7	3	2	4	3	3	2	7
1065:	7	3	4	6	2	1	6	3
1073:	3	5	3	7	7	4	11	4
1081:	6	3	7	5	3	4	2	5
1089:	4	4	3	5	8	4	10	8
1097:	9	5	3	4	2	7	4	4
1105:	8	4	3	8	8	5	7	3
1113:	7	5	5	10	10	4	12	18
1121:	19	8	6	7	10	3	4	3
1129:	1	2	5	4	9	2	2	1
1137:	2	2	3	3	4	6	7	10
1145:	6	1	4	1	3	4	6	5
1153:	4	7	11	5	2	6	6	4
1161:	5	3	7	7	1	2	5	4
1169:	4	7	2	6	2	5	2	0
1177:	6	5	3	6	9	5	6	5
1185:	7	0	3	5	5	3	4	3
1193:	2	3	9	3	4	3	4	0
1201:	4	5	2	4	8	4	2	4
1209:	5	4	5	2	5	4	1	3
1217:	1	7	2	7	6	3	10	5
1225:	3	3	4	5	2	4	3	4
1233:	4	8	2	3	5	4	7	6
1241:	6	1	7	1	5	8	6	7
1249:	4	3	4	3	5	4	3	5
1257:	1	6	7	4	4	2	1	5
1265:	2	6	2	6	5	5	4	4
1273:	8	4	6	4	5	3	3	6
1281:	6	3	3	7	7	3	3	3
1289:	6	2	4	3	2	7	2	5
1297:	3	4	2	3	4	6	4	8
1305:	6	6	6	7	10	2	4	5
1313:	4	3	2	2	4	2	4	5
1321:	4	5	2	5	2	7	3	7
1329:	0	4	2	5	4	5	6	4
1337:	3	4	4	5	5	2	4	2
1345:	3	2	3	4	1	3	3	2
1353:	8	4	3	2	2	8	4	4
1361:	4	7	2	5	4	1	2	5
1369:	3	5	3	3	4	2	3	6
1377:	1	6	7	5	1	3	2	5
1385:	2	8	1	6	4	0	2	2

1393:	5	6	1	2	4	2	7	4
1401:	4	5	8	3	4	4	5	7
1409:	5	3	4	5	5	1	4	2
1417:	7	2	3	1	0	2	1	1
1425:	5	3	2	2	7	2	1	3
1433:	1	1	1	4	2	3	5	2
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1449:	2	1	3	4	2	3	4	4
1457:	7	8	2	8	9	2	3	3
1465:	4	8	1	1	2	5	2	1
1473:	3	3	4	2	5	3	2	4
1481:	4	0	3	1	3	1	1	1
1489:	3	5	3	2	4	1	2	10
1497:	6	3	2	1	4	9	3	2
1505:	5	1	2	7	2	6	5	5
1513:	5	2	1	5	1	3	4	2
1521:	3	4	5	0	2	6	4	3
1529:	6	5	4	2	2	0	2	4
1537:	2	7	3	4	1	3	2	0
1545:	4	2	3	5	0	3	0	2
1553:	1	4	5	1	5	1	1	4
1561:	3	6	2	4	3	5	2	4
1569:	4	2	0	4	2	2	4	2
1577:	0	2	2	7	6	5	1	4
1585:	4	6	10	18	21	8	17	28
1593:	19	17	3	1	2	4	2	2
1601:	2	2	4	2	5	4	2	5
1609:	3	2	2	3	2	6	1	2
1617:	2	8	2	7	12	9	3	3
1625:	4	2	2	2	7	6	10	9
1633:	1	4	1	3	2	8	2	3
1641:	0	3	3	2	2	2	0	5
1649:	2	3	3	4	1	5	1	2
1657:	1	1	0	2	1	1	1	2
1665:	2	3	7	4	5	2	1	4
1673:	1	7	4	4	2	0	1	1
1681:	2	0	2	2	3	4	3	1
1689:	0	3	2	1	1	1	0	2
1697:	1	4	1	2	3	2	3	2
1705:	0	4	2	1	2	3	6	3
1713:	2	3	0	3	0	0	2	5
1721:	2	4	2	4	2	3	3	4
1729:	4	4	2	3	3	2	1	2
1737:	0	1	3	2	2	2	1	5
1745:	2	5	4	1	2	1	0	2
1753:	2	4	2	3	5	2	0	1
1761:	4	1	5	15	13	7	2	1
1769:	3	3	1	5	3	1	3	1
1777:	2	0	2	1	3	0	2	0
1785:	2	2	3	3	2	2	3	3
1793:	3	2	4	3	2	1	3	3
1801:	1	2	8	2	5	1	3	3
1809:	6	3	2	1	3	2	3	1
1817:	1	1	1	1	0	6	1	2
1825:	3	1	4	2	3	3	6	1
1833:	3	4	2	3	0	0	3	0
1841:	1	3	1	0	2	5	3	7
1849:	9	3	2	2	2	5	3	0
1857:	1	4	5	5	3	3	2	1
1865:	2	3	2	2	1	4	2	3

1873:	1	1	4	1	1	3	1	3
1881:	0	2	2	5	1	4	3	2
1889:	5	2	2	2	2	4	1	4
1897:	3	3	4	2	2	1	6	2
1905:	2	1	1	1	5	3	3	4
1913:	0	3	3	1	4	1	3	3
1921:	1	1	7	3	3	3	2	0
1929:	1	2	0	3	3	2	1	4
1937:	2	1	5	2	2	2	2	2
1945:	4	2	1	1	2	2	2	3
1953:	3	1	1	3	1	2	1	4
1961:	5	5	2	3	4	2	2	2
1969:	1	2	1	1	1	3	3	3
1977:	3	3	3	4	1	1	1	1
1985:	1	1	1	3	2	1	5	3
1993:	2	4	0	4	2	5	3	2
2001:	1	1	0	4	3	3	0	4
2009:	3	1	1	7	3	3	0	3
2017:	2	3	3	2	4	1	1	2
2025:	6	1	3	5	0	5	4	3
2033:	2	2	5	2	3	3	3	2
2041:	0	0	1	3	1	1	2	0
2049:	1	2	0	5	6	0	1	4
2057:	1	2	1	2	3	1	3	2
2065:	2	0	2	4	2	0	1	6
2073:	0	1	2	1	4	4	4	2
2081:	2	3	0	2	2	4	2	5
2089:	0	0	2	5	3	1	1	0
2097:	3	1	2	1	5	11	14	10
2105:	9	7	4	4	1	4	3	2
2113:	4	6	4	5	0	4	1	4
2121:	0	1	2	3	2	0	2	2
2129:	0	2	1	3	5	11	3	1
2137:	2	1	2	1	1	3	6	1
2145:	0	1	2	1	1	0	5	0
2153:	2	2	3	4	0	0	5	5
2161:	1	3	3	1	4	5	4	3
2169:	4	0	0	0	1	3	4	3
2177:	0	3	2	2	0	2	5	5
2185:	0	3	3	2	1	1	4	0
2193:	5	3	1	5	4	0	2	2
2201:	5	2	3	7	5	3	3	3
2209:	6	3	5	1	4	3	4	6
2217:	1	0	2	4	5	3	2	1
2225:	4	6	1	5	3	2	4	3
2233:	1	6	4	4	7	3	3	5
2241:	4	1	4	5	4	1	3	1
2249:	1	2	4	7	3	2	2	4
2257:	2	3	3	0	5	4	4	3
2265:	6	1	1	1	1	3	2	3
2273:	5	6	4	3	4	5	4	3
2281:	1	1	5	3	5	3	3	1
2289:	3	2	2	4	2	4	4	5
2297:	5	1	0	4	2	3	4	5
2305:	6	5	4	2	5	7	3	3
2313:	6	4	4	5	3	1	5	5
2321:	5	1	6	4	4	6	4	4
2329:	3	4	6	2	4	7	4	6
2337:	5	1	2	8	5	4	1	2
2345:	6	2	1	1	6	2	2	4

2353:	5	3	3	2	4	4	1	4
2361:	1	3	3	7	4	2	3	1
2369:	5	3	3	6	8	1	7	3
2377:	1	8	5	6	4	1	4	4
2385:	3	3	3	2	6	3	4	2
2393:	3	4	4	3	4	4	1	4
2401:	5	3	1	1	5	0	4	4
2409:	1	3	1	3	2	1	5	1
2417:	2	2	4	2	4	5	0	1
2425:	5	4	4	1	1	1	4	2
2433:	1	3	2	4	3	1	3	4
2441:	5	1	4	4	0	0	0	3
2449:	3	3	1	1	1	1	0	1
2457:	0	2	0	1	2	3	1	2
2465:	0	3	3	2	4	1	2	2
2473:	0	2	2	5	1	5	2	2
2481:	3	2	0	1	2	2	0	2
2489:	1	0	1	2	1	1	0	0
2497:	2	4	3	0	1	0	1	2
2505:	1	3	2	1	0	2	2	2
2513:	0	0	0	2	1	1	0	0
2521:	0	0	0	0	0	0	0	0
2529:	1	1	1	0	0	0	0	2
2537:	1	0	4	0	0	0	1	1
2545:	2	1	0	0	2	0	0	1
2553:	1	0	2	1	0	1	0	0
2561:	0	0	1	1	0	1	0	0
2569:	0	2	0	0	1	2	0	1
2577:	0	0	0	0	1	1	1	2
2585:	0	0	0	0	2	0	1	0
2593:	1	0	1	0	1	0	1	1
2601:	2	0	0	2	0	1	0	2
2609:	0	1	5	10	36	77	97	53
2617:	19	2	0	0	0	1	0	0
2625:	0	0	0	0	0	1	1	0
2633:	0	0	0	0	0	0	0	2
2641:	0	0	0	0	0	1	0	0
2649:	0	0	0	0	1	1	0	0
2657:	0	0	1	0	1	1	0	1
2665:	1	0	0	1	0	2	0	2
2673:	1	1	0	1	0	0	0	0
2681:	0	0	0	1	0	1	2	0
2689:	0	0	0	0	0	0	0	0
2697:	1	0	1	1	0	0	0	0
2705:	2	1	0	1	1	1	0	0
2713:	0	0	0	0	0	0	0	1
2721:	0	0	0	0	1	0	0	0
2729:	1	0	0	0	1	1	1	0
2737:	0	0	1	0	0	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	2	0	1	0	1	0	0
2761:	0	1	0	0	1	0	0	0
2769:	0	1	0	0	0	0	0	0
2777:	1	0	0	0	0	0	0	1
2785:	0	0	1	0	0	0	0	1
2793:	0	1	0	0	0	0	0	0
2801:	1	1	1	0	1	0	0	0
2809:	0	1	1	0	1	1	0	0
2817:	0	0	0	0	0	0	0	0
2825:	0	1	0	0	0	0	0	2

2833:	0	0	0	2	1	0	0	0
2841:	0	0	0	0	1	0	1	0
2849:	1	1	0	0	1	1	1	0
2857:	0	0	0	0	0	0	0	1
2865:	1	0	0	1	2	1	0	2
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	0	0	0
2889:	1	0	0	1	1	0	1	0
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	0	0	0	0
2913:	0	0	1	1	0	0	0	0
2921:	1	1	0	0	1	1	0	1
2929:	0	1	0	0	0	0	0	0
2937:	2	0	1	0	0	0	0	0
2945:	0	2	1	0	0	0	0	0
2953:	0	0	0	0	1	0	1	0
2961:	0	1	1	1	0	0	0	1
2969:	0	0	1	0	0	0	0	0
2977:	0	1	0	1	0	0	0	0
2985:	1	1	0	0	0	0	0	0
2993:	0	2	0	0	0	1	1	0
3001:	1	1	0	1	0	0	0	0
3009:	1	0	0	0	0	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	2	0	0	0	0	0	0	0
3033:	0	0	0	0	0	0	0	1
3041:	0	0	0	0	0	1	0	0
3049:	0	0	1	0	2	0	0	0
3057:	0	0	0	1	1	0	0	0
3065:	0	0	0	0	0	0	0	1
3073:	0	0	0	0	0	0	0	0
3081:	0	0	1	0	0	0	0	0
3089:	1	0	1	0	1	0	0	0
3097:	0	1	1	1	0	0	2	0
3105:	0	0	0	0	0	1	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	1	1	0	0	0
3129:	0	0	0	0	0	0	0	1
3137:	0	0	1	1	0	1	0	0
3145:	0	0	0	0	0	0	1	0
3153:	0	0	0	0	0	1	0	0
3161:	0	0	0	0	0	1	0	0
3169:	0	0	1	0	0	0	1	0
3177:	0	1	1	0	0	0	0	0
3185:	0	1	0	0	0	1	0	0
3193:	0	0	1	0	1	2	2	0
3201:	0	0	1	2	0	1	0	0
3209:	1	0	0	0	1	0	0	0
3217:	0	0	0	0	0	2	0	0
3225:	0	0	0	0	0	0	0	0
3233:	1	0	0	0	0	0	0	0
3241:	0	0	0	0	1	0	0	0
3249:	0	1	0	0	0	0	0	2
3257:	0	0	0	0	0	0	0	0
3265:	0	1	0	0	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	1	0	0	1	1
3297:	0	0	0	0	1	0	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	0	0	0	1	0
3321:	1	0	0	0	0	0	0	0
3329:	1	0	0	0	0	0	0	0
3337:	0	1	1	1	0	1	0	0
3345:	0	0	0	2	0	0	0	0
3353:	0	0	0	0	0	0	0	0
3361:	0	0	0	0	1	0	0	0
3369:	0	0	1	0	0	1	0	0
3377:	0	0	0	0	0	0	0	0
3385:	1	0	0	1	0	0	0	0
3393:	0	0	0	0	0	0	0	0
3401:	0	1	0	0	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	1	0	0	0	0	0
3425:	1	0	0	0	0	0	0	0
3433:	0	1	0	0	2	1	0	1
3441:	0	0	0	0	2	1	0	0
3449:	0	0	0	0	1	0	0	0
3457:	1	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	0	0	0	1	0	0	0
3481:	0	1	0	0	1	0	1	0
3489:	1	0	0	1	0	0	0	1
3497:	0	1	0	0	0	0	0	0
3505:	0	0	0	0	0	0	1	0
3513:	0	0	0	0	1	0	0	0
3521:	0	0	1	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	2	1	0	0
3569:	1	0	0	0	0	0	0	0
3577:	0	0	1	0	0	0	0	0
3585:	2	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	1	0	0	0	1	0	0
3625:	0	0	1	0	0	0	0	0
3633:	1	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	2	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	1	0	0	0	0
3689:	0	0	0	0	1	0	0	0
3697:	0	0	0	1	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	1
3729:	1	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	1
3745:	0	0	0	0	0	0	0	0
3753:	0	1	1	1	1	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	0	0	0	0	0	0

3793:	1	0	0	0	0	0	0	0
3801:	1	0	0	0	1	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	1	0	0	0	2	0	0
3825:	0	0	1	0	1	0	0	0
3833:	0	0	0	0	0	1	0	0
3841:	0	0	0	1	0	0	1	0
3849:	0	0	0	0	1	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	1	1	0	0	0	0	0
3873:	0	1	0	0	0	0	0	0
3881:	0	1	0	0	0	0	0	0
3889:	0	1	0	0	0	0	0	0
3897:	0	0	0	0	0	1	0	1
3905:	0	0	1	0	0	0	1	0
3913:	0	0	0	0	0	0	1	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	1
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	1	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	1	1	1	0	0	0	0
4001:	0	0	1	0	1	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	1	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	1	0	0	0	0
4073:	0	0	1	0	0	0	0	0
4081:	0	1	0	0	0	0	0	1
4089:	0	0	1	0	0	0	0	0

(KV) 7-9-10

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

VAX/VMS Peak Search Report Generated 9-JUL-2010 09:37:43.64

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606111_GE1_GAS1002_151305.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-10A
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 08:37:29.
Sample ID : 1006061-11 Sample Quantity : 2.53000E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.21 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	62.69*	229	817	1.90	62.13	59	8	46.3		TH-234
0	75.92*	1159	1139	3.93	75.37	69	11	12.8		AM-243
3	85.22*	217	742	2.71	84.68	81	17	45.9	2.31E+01	NP-237
3	92.34*	758	630	2.72	91.80	81	17	14.2		
0	129.58	115	435	1.97	129.06	125	9	68.5		
0	144.62*	115	446	2.03	144.11	139	10	71.6		CE-141
0	185.74*	323	337	2.07	185.27	181	10	24.6		RA-226
0	210.49	66	294	1.36	210.03	206	7	89.8		
6	236.86	286	208	2.59	236.43	232	19	29.9	6.22E+01	
6	241.11*	346	210	3.48	240.68	232	19	27.3		RA-224
1	270.19	116	125	2.40	269.78	250	33	36.9	4.30E+00	
1	275.63	48	133	2.40	275.22	250	33	85.5		
1	295.37*	133	123	2.41	294.97	291	14	32.2	4.01E+00	PB-214
1	300.61	112	125	2.24	300.22	291	14	37.5		
6	324.91	17	36	2.78	324.54	323	8	91.9	7.69E+00	RA-223
6	328.21	63	113	1.86	327.84	323	8	57.2		
0	339.21	165	230	2.01	338.85	333	10	37.8		AC-228
1	349.13	26	92	2.45	348.78	346	11	112.4	1.88E+01	
1	352.39*	245	119	2.45	352.04	346	11	18.8		PB-214
0	409.71	55	74	2.35	409.40	406	7	59.4		
0	453.02	46	88	2.00	452.74	447	11	84.3		
1	463.50*	82	60	2.51	463.23	458	12	41.4	4.11E+00	
1	466.50	27	43	2.09	466.23	458	12	102.5		
0	510.93*	57	141	1.72	510.69	506	10	89.2		
0	583.39*	403	86	1.99	583.21	578	11	13.4		TL-208
0	609.61*	145	82	2.01	609.44	604	10	28.9		BI-214
0	664.62	35	63	1.37	664.49	660	10	91.7		
0	697.69	43	117	14.88	697.59	686	18	121.9		
1	723.84	18	37	2.51	723.76	721	14	114.9	3.50E+00	
1	727.12	61	46	2.63	727.05	721	14	47.4		BI-212
0	795.99	42	34	2.04	795.96	791	8	57.4		
1	830.76	28	23	2.67	830.76	827	24	76.6	1.50E+00	
1	836.00	32	25	2.43	836.00	827	24	63.3		MN-54
1	840.75	30	35	2.53	840.76	827	24	76.6		
0	861.76	37	47	1.33	861.78	857	10	77.5		TL-208
0	878.35	11	15	1.28	878.39	875	6	123.6		

AG 7/12/10

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	911.58*	237	40	2.03	911.64	907	11	16.8		AC-228
0	969.72	90	63	2.11	969.82	966	10	41.6		AC-228
0	1079.80	12	12	1.51	1079.98	1077	7	111.4		
0	1121.46	35	23	1.58	1121.68	1118	9	61.6		BI-214
0	1155.95	16	7	1.16	1156.19	1154	7	74.2		
0	1182.81	17	12	3.12	1183.07	1178	8	91.1		
0	1378.18	37	12	4.05	1378.58	1370	16	53.2		
0	1460.60*	69	3	3.10	1461.06	1455	12	27.4		K-40
0	1469.41	8	0	1.47	1469.88	1467	7	70.7		
0	1477.19	16	2	4.92	1477.67	1474	8	59.5		
0	1496.04	16	5	4.92	1496.53	1493	8	68.3		
0	1589.43	27	13	1.84	1589.99	1585	11	66.4		
0	1620.29	14	2	2.20	1620.87	1617	8	64.3		BI-212
0	1629.48	17	2	1.56	1630.07	1625	9	58.9		
0	1638.90	7	1	1.05	1639.49	1636	6	96.7		
0	1678.38	12	0	1.96	1679.00	1674	9	57.7		
0	1765.08*	31	3	3.33	1765.77	1761	11	42.9		BI-214
0	1829.43	10	4	2.38	1830.16	1826	8	90.0		
0	1848.92	10	5	1.07	1849.67	1843	10	106.3		
0	2090.41	6	4	3.53	2091.33	2086	8	141.4		
0	2103.97	39	0	5.50	2104.90	2100	11	32.0		
0	2174.60	12	0	2.00	2175.58	2172	8	57.7		
0	2183.84	6	0	2.74	2184.83	2181	7	81.6		
0	2205.42*	5	3	1.01	2206.43	2203	6	150.6		BI-214
0	2238.40	7	0	2.74	2239.43	2235	8	75.6		
0	2326.87	15	3	8.60	2327.97	2321	13	71.7		
0	2393.75	5	2	1.35	2394.89	2391	7	116.9		
0	2481.16	6	1	1.52	2482.37	2479	6	109.2		
0	2614.09*	135	3	2.49	2615.40	2610	10	18.1		TL-208

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

Total number of lines in spectrum	65	
Number of unidentified lines	28	
Number of lines tentatively identified by NID	37	56.92%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.776E+00	3.776E+00	1.119E+00	29.62	
TL-208	1.41E+10Y	1.00	3.383E+00	3.383E+00	0.461E+00	13.64	
BI-212	1.41E+10Y	1.00	1.996E+00	1.996E+00	0.803E+00	40.25	
BI-214	1602.00Y	1.00	1.014E+00	1.015E+00	0.239E+00	23.53	
PB-214	1602.00Y	1.00	1.235E+00	1.235E+00	0.227E+00	18.41	
RA-223	3.28E+04Y	1.00	8.060E-01	8.060E-01	7.466E-01	92.63	
RA-224	1.41E+10Y	1.00	1.285E+01	1.285E+01	0.379E+01	29.52	
RA-226	1602.00Y	1.00	1.244E+01	1.244E+01	2.300E+01	184.84	
AC-228	1.41E+10Y	1.00	3.091E+00	3.091E+00	0.501E+00	16.19	
TH-234	4.47E+09Y	1.00	6.672E+00	6.672E+00	3.198E+00	47.93	
			---	---			
	Total Activity :		4.726E+01	4.726E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	1.230E-01	1.336E-01	0.856E-01	64.07	
AM-243	7380.00Y	1.00	1.862E+00	1.862E+00	0.404E+00	21.68	
			---	---			
	Total Activity :		1.985E+00	1.995E+00			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	2.22	2.707E-01	6.009E-01	4.609E-01	76.71	
NP-237	2.14E+06Y	1.00	1.795E+00	1.795E+00	0.921E+00	51.34	
			---	---			
	Total Activity :		2.065E+00	2.395E+00			

Grand Total Activity : 5.131E+01 5.165E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	3.776E+00	3.776E+00	29.62	OK
	Final Mean for 1 Valid Peaks = 3.776E+00+/- 1.119E+00 (29.62%)						
TL-208	583.14	30.22*	1.026E+00	3.860E+00	3.860E+00	17.74	OK
	860.37	4.48	7.447E-01	3.270E+00	3.270E+00	78.05	OK
	2614.66	35.85	3.778E-01	2.968E+00	2.968E+00	21.70	OK
	Final Mean for 3 Valid Peaks = 3.383E+00+/- 4.614E-01 (13.64%)						
BI-212	727.17	11.80*	8.541E-01	1.787E+00	1.787E+00	48.77	OK
	1620.62	2.75	4.729E-01	3.173E+00	3.173E+00	65.23	OK
	Final Mean for 2 Valid Peaks = 1.996E+00+/- 8.031E-01 (40.25%)						
BI-214	609.31	46.30*	9.893E-01	9.387E-01	9.387E-01	31.18	OK
	1120.29	15.10	6.070E-01	1.121E+00	1.121E+00	62.28	OK
	1764.49	15.80	4.502E-01	1.294E+00	1.294E+00	44.15	OK
	2204.22	4.98	4.030E-01	7.631E-01	7.631E-01	150.99	OK
	Final Mean for 4 Valid Peaks = 1.015E+00+/- 2.387E-01 (23.53%)						
PB-214	295.21	19.19	1.761E+00	1.172E+00	1.172E+00	34.34	OK
	351.92	37.19*	1.545E+00	1.264E+00	1.264E+00	21.78	OK
	Final Mean for 2 Valid Peaks = 1.235E+00+/- 2.273E-01 (18.41%)						
RA-223	323.87	3.88*	1.645E+00	8.060E-01	8.060E-01	92.63	OK
	Final Mean for 1 Valid Peaks = 8.060E-01+/- 7.466E-01 (92.63%)						
RA-224	240.98	3.95*	2.021E+00	1.285E+01	1.285E+01	29.52	OK
	Final Mean for 1 Valid Peaks = 1.285E+01+/- 3.792E+00 (29.52%)						
RA-226	186.21	3.28*	2.345E+00	1.244E+01	1.244E+01	184.84	OK
	Final Mean for 1 Valid Peaks = 1.244E+01+/- 2.300E+01 (184.84%)						
AC-228	338.32	11.40	1.592E+00	2.699E+00	2.699E+00	39.48	OK
	911.07	27.70*	7.115E-01	3.575E+00	3.575E+00	19.13	OK
	969.11	16.60	6.778E-01	2.382E+00	2.382E+00	42.59	OK
	Final Mean for 3 Valid Peaks = 3.091E+00+/- 5.006E-01 (16.19%)						
TH-234	63.29	3.80*	2.676E+00	6.672E+00	6.672E+00	47.93	OK
	Final Mean for 1 Valid Peaks = 6.672E+00+/- 3.198E+00 (47.93%)						

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
MN-54	834.83	99.97*	7.630E-01	1.230E-01	1.336E-01	64.07	OK
Final Mean for 1 Valid Peaks = 1.336E-01+/- 8.559E-02 (64.07%)							
AM-243	74.67	66.00*	2.800E+00	1.862E+00	1.862E+00	21.68	OK
Final Mean for 1 Valid Peaks = 1.862E+00+/- 4.036E-01 (21.68%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CE-141	145.44	48.40*	2.614E+00	2.707E-01	6.009E-01	76.71	OK
Final Mean for 1 Valid Peaks = 6.009E-01+/- 4.609E-01 (76.71%)							
NP-237	86.50	12.60*	2.849E+00	1.795E+00	1.795E+00	51.34	OK
Final Mean for 1 Valid Peaks = 1.795E+00+/- 9.213E-01 (51.34%)							

Flag: "*" = Keyline

Sample ID : 1006061-11
Acquisition date : 9-JUL-2010 08:37:29

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	3.776E+00	1.119E+00	8.666E-01	9.075E-02	4.358
MN-54	1.336E-01	8.559E-02	1.285E-01	1.187E-02	1.039
CE-141	6.009E-01	4.609E-01	4.251E-01	1.156E-01	1.413
TL-208	3.383E+00	4.614E-01	4.119E-01	4.476E-02	8.212
BI-212	1.996E+00	8.031E-01	1.140E+00	1.218E-01	1.750
BI-214	1.015E+00	2.387E-01	2.810E-01	3.095E-02	3.610
PB-214	1.235E+00	2.273E-01	2.687E-01	2.745E-02	4.595
RA-223	8.060E-01	7.466E-01	2.472E+00	2.666E-01	0.326
RA-224	1.285E+01	3.792E+00	2.281E+00	2.365E-01	5.632
RA-226	1.244E+01	2.300E+01	2.989E+00	5.474E+00	4.163
AC-228	3.091E+00	5.006E-01	4.707E-01	3.824E-02	6.568
TH-234	6.672E+00	3.198E+00	3.419E+00	4.037E-01	1.952
NP-237	1.795E+00	9.213E-01	8.746E-01	1.982E-01	2.052
AM-243	1.862E+00	4.036E-01	2.030E-01	3.464E-02	9.170

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-7.105E-01		1.069E+00	1.701E+00	1.710E-01	-0.418
NA-22	-3.087E-02		6.434E-02	1.129E-01	1.072E-02	-0.274
AL-26	2.016E-02		5.564E-02	1.171E-01	1.134E-02	0.172
TI-44	-8.539E-02		1.241E-01	1.404E-01	1.955E-02	-0.608
SC-46	-5.110E-02		8.344E-02	1.441E-01	1.191E-02	-0.355
V-48	-9.056E-03		2.988E-01	5.590E-01	4.601E-02	-0.016
CR-51	3.269E-01		1.635E+00	2.500E+00	2.804E-01	0.131
CO-56	5.556E-02		9.953E-02	1.907E-01	1.723E-02	0.291
CO-57	-8.350E-02		8.323E-02	1.176E-01	1.132E-02	-0.710
CO-58	-9.070E-02		9.491E-02	1.569E-01	1.511E-02	-0.578
FE-59	5.933E-02		1.983E-01	3.862E-01	3.474E-02	0.154
CO-60	4.460E-02		7.848E-02	1.410E-01	1.158E-02	0.316
ZN-65	9.088E-02		1.396E-01	2.623E-01	2.169E-02	0.346
SE-75	1.116E-01		1.240E-01	1.987E-01	2.194E-02	0.562
RB-82	-1.333E+00		1.611E+00	2.712E+00	2.738E-01	-0.491
RB-83	-2.073E-01		2.288E-01	3.024E-01	5.049E-02	-0.686
KR-85	8.610E+01		2.412E+01	4.266E+01	4.425E+00	2.018
SR-85	5.576E-01		1.562E-01	2.763E-01	2.866E-02	2.018
Y-88	-6.964E-03		1.095E-01	1.320E-01	1.268E-02	-0.053
NB-93M	-9.139E+01		4.594E+01	4.868E+00	2.422E+00	-18.773
NB-94	1.347E-02		8.272E-02	1.050E-01	9.041E-03	0.128
NB-95	1.119E-01		1.735E-01	3.270E-01	3.350E-02	0.342
ZR-95	9.789E-02		2.053E-01	3.859E-01	4.279E-02	0.254
RU-103	-2.258E-02		1.418E-01	2.365E-01	3.593E-02	-0.095
RU-106	-1.819E-01		7.682E-01	1.368E+00	2.061E-01	-0.133
AG-108M	6.910E-02	+	7.975E-02	1.561E-01	1.675E-02	0.443
CD-109	1.424E+01		4.265E+00	4.372E+00	1.055E+00	3.257
AG-110M	-8.913E-03		8.613E-02	1.374E-01	1.543E-02	-0.065
SN-113	-1.149E-01		1.161E-01	1.802E-01	1.694E-02	-0.638

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TE123M	-1.056E-01		8.720E-02	1.378E-01	1.199E-02	-0.767
SB-124	3.801E-02		1.208E-01	1.997E-01	2.193E-02	0.190
I-125	-3.832E-01		1.850E+00	3.129E+00	4.584E-01	-0.122
SB-125	5.579E-02		2.024E-01	3.510E-01	3.408E-02	0.159
SB-126	2.877E-01		1.262E+00	2.071E+00	2.226E-01	0.139
SN-126	1.343E+00		3.929E-01	4.149E-01	9.617E-02	3.237
I-129	-3.518E-02		1.676E-01	2.836E-01	5.103E-02	-0.124
I-131	-7.700E-01		1.748E+00	2.857E+00	2.832E-01	-0.269
BA-133	2.168E-01		1.193E-01	1.992E-01	2.835E-02	1.088
CS-134	-6.780E-03		8.879E-02	1.407E-01	1.548E-02	-0.048
CS-135	9.908E-01		4.241E-01	7.137E-01	7.917E-02	1.388
CS-136	-2.346E-01		5.736E-01	1.016E+00	8.697E-02	-0.231
CS-137	2.491E-02		8.759E-02	1.464E-01	1.648E-02	0.170
LA-138	8.683E-03		8.306E-02	1.642E-01	1.687E-02	0.053
CE-139	6.942E-02		8.842E-02	1.526E-01	1.300E-02	0.455
BA-140	5.812E-01		1.928E+00	3.347E+00	1.128E+00	0.174
LA-140	3.629E-01		4.829E-01	9.834E-01	9.969E-02	0.369
CE-144	-3.583E-02		6.899E-01	9.402E-01	8.769E-02	-0.038
PM-144	1.556E-01	+	1.905E-01	1.522E-01	1.672E-02	1.023
PM-145	-5.172E-02		3.580E-01	6.039E-01	3.988E-01	-0.086
PM-146	2.742E-01	+	2.330E-01	2.858E-01	2.809E-02	0.959
ND-147	-7.145E+00		5.508E+00	8.106E+00	8.517E-01	-0.881
EU-152	1.880E-02		4.448E-01	8.461E-01	1.038E-01	0.022
GD-153	-2.773E-01		3.172E-01	4.834E-01	8.324E-02	-0.574
EU-154	-8.663E-02		1.775E-01	3.108E-01	2.953E-02	-0.279
EU-155	7.423E-01	+	3.811E-01	4.989E-01	1.131E-01	1.488
EU-156	-4.773E+00		3.543E+00	5.249E+00	1.219E+00	-0.909
HO-166M	-6.704E-02		1.343E-01	2.339E-01	2.535E-02	-0.287
HF-172	6.731E-01		5.817E-01	9.175E-01	8.733E-02	0.734
LU-172	6.053E-01		5.149E+00	9.722E+00	8.040E-01	0.062
LU-173	7.802E-01		3.397E-01	5.707E-01	6.391E-02	1.367
HF-175	2.750E-02		1.515E-01	1.823E-01	1.896E-02	0.151
LU-176	-5.011E-02		6.657E-02	9.284E-02	1.027E-02	-0.540
TA-182	6.086E-01	+	3.790E-01	6.415E-01	5.297E-02	0.949
IR-192	-2.712E-02		2.257E-01	3.337E-01	3.325E-02	-0.081
HG-203	2.208E-01		1.504E-01	2.466E-01	2.855E-02	0.895
BI-207	-5.444E-02		7.623E-02	1.200E-01	1.294E-02	-0.454
BI-210M	1.574E-01		1.343E-01	2.182E-01	2.384E-02	0.721
PB-210	7.264E-02		1.817E+00	3.156E+00	3.648E-01	0.023
PB-211	1.682E+00		2.407E+00	3.843E+00	3.575E-01	0.438
PB-212	4.207E+00		5.388E-01	5.910E-01	6.090E-02	7.118
RN-219	2.106E-01		1.095E+00	1.671E+00	1.549E-01	0.126
RA-225	6.820E-01		1.352E+00	2.341E+00	3.052E-01	0.291
TH-227	3.608E+00	+	1.149E+00	1.877E+00	1.921E-01	1.922
TH-230	-2.233E+01		3.164E+01	3.576E+01	4.945E+00	-0.625
PA-231	8.228E+00		2.992E+00	5.162E+00	5.738E-01	1.594
TH-231	-2.945E+01		6.838E+00	1.455E+00	3.229E-01	-20.233
PA-233	-2.042E-01		3.745E-01	6.040E-01	1.417E-01	-0.338

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234	5.826E-01		3.185E-01	5.125E-01	4.809E-02	1.137
PA-234M	6.274E+00		7.616E+00	1.557E+01	1.284E+00	0.403
U-235	1.243E+00	+	9.182E-01	1.012E+00	1.795E-01	1.228
AM-241	5.905E-01		2.434E-01	3.870E-01	3.891E-02	1.526
CM-243	9.647E-01		4.835E-01	8.065E-01	9.152E-02	1.196

Sample ID : 1006061-11 Acquisition date : 9-JUL-2010 08:37:29

Total number of lines in spectrum	65	
Number of unidentified lines	28	
Number of lines tentatively identified by NID	37	56.92%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.776E+00	3.776E+00	1.119E+00	29.62	
TL-208	1.41E+10Y	1.00	3.383E+00	3.383E+00	0.461E+00	13.64	
BI-212	1.41E+10Y	1.00	1.996E+00	1.996E+00	0.803E+00	40.25	
BI-214	1602.00Y	1.00	1.014E+00	1.015E+00	0.239E+00	23.53	
PB-214	1602.00Y	1.00	1.235E+00	1.235E+00	0.227E+00	18.41	
RA-223	3.28E+04Y	1.00	8.060E-01	8.060E-01	7.466E-01	92.63	
RA-224	1.41E+10Y	1.00	1.285E+01	1.285E+01	0.379E+01	29.52	
RA-226	1602.00Y	1.00	1.244E+01	1.244E+01	2.300E+01	184.84	
AC-228	1.41E+10Y	1.00	3.091E+00	3.091E+00	0.501E+00	16.19	
TH-234	4.47E+09Y	1.00	6.672E+00	6.672E+00	3.198E+00	47.93	
			---	---			
	Total Activity :		4.726E+01	4.726E+01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	1.230E-01	1.336E-01	0.856E-01	64.07	
AM-243	7380.00Y	1.00	1.862E+00	1.862E+00	0.404E+00	21.68	
			---	---			
	Total Activity :		1.985E+00	1.995E+00			

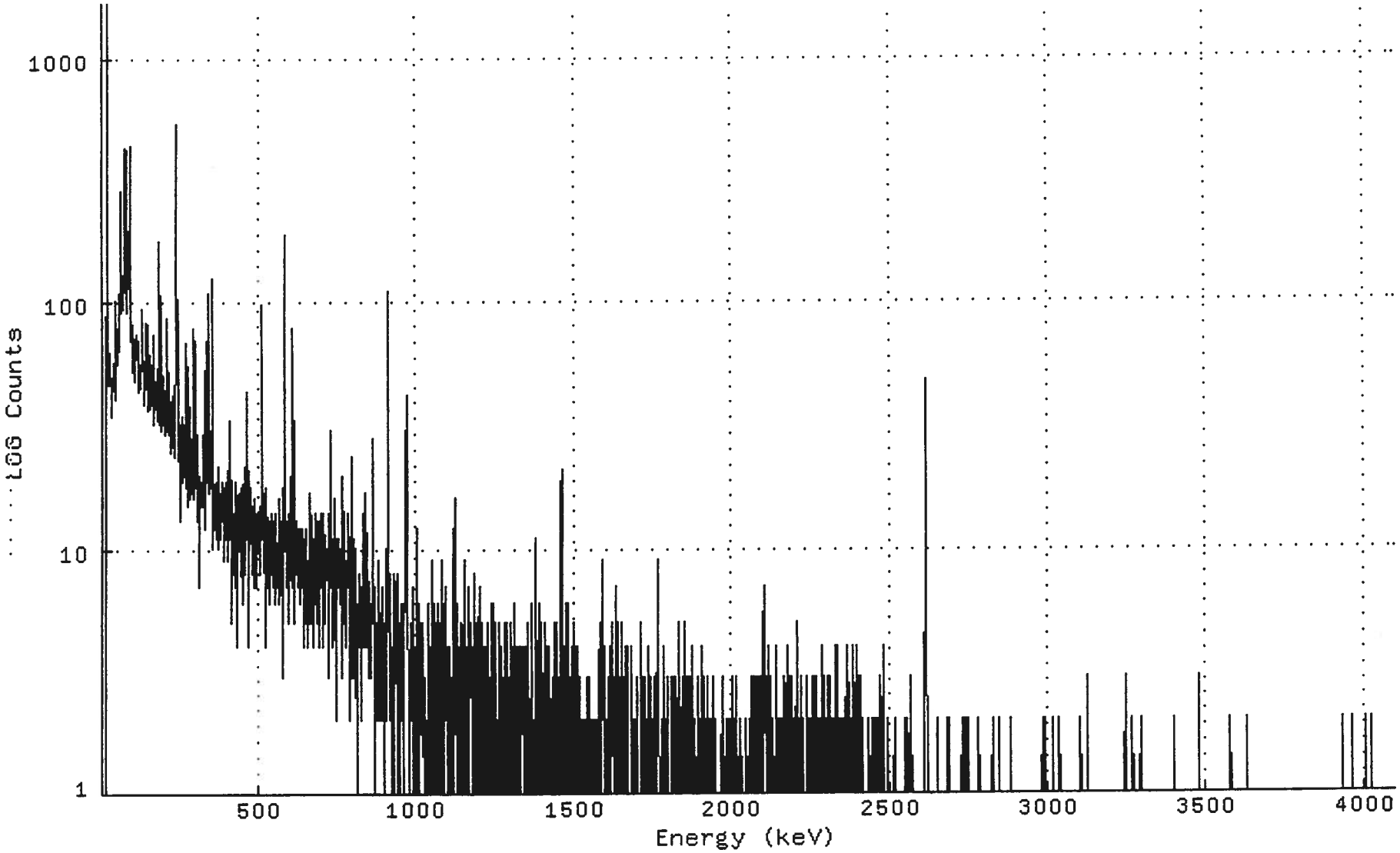
Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	2.22	2.707E-01	6.009E-01	4.609E-01	76.71	
NP-237	2.14E+06Y	1.00	1.795E+00	1.795E+00	0.921E+00	51.34	
			---	---			
	Total Activity :		2.065E+00	2.395E+00			

Grand Total Activity : 5.131E+01 5.165E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606111_GE1_GAS1002_151305.CNF;1
Title :
Sample Title: S-10A
Start Time: 9-JUL-2010 08:37: Sample Time: 2-JUN-2010 00:00: Energy Offset: 6.08450E-01
Real Time : 0 01:00:01.21 Sample ID : 1006061-11 Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606111_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	1	87
17:	80	65	138	1657	165	47	61	47
25:	55	63	47	51	48	39	40	50
33:	34	47	44	58	45	51	53	54
41:	54	64	40	49	81	102	62	72
49:	67	68	57	65	88	65	76	65
57:	108	86	92	96	112	270	282	106
65:	102	94	131	111	101	115	110	147
73:	169	360	262	425	423	115	95	107
81:	91	100	128	156	123	197	199	116
89:	154	163	176	435	281	119	74	65
97:	61	79	82	53	64	48	53	72
105:	67	67	55	66	60	61	67	75
113:	62	70	71	56	55	48	43	46
121:	47	55	52	57	54	54	56	85
129:	94	56	54	59	38	48	42	47
137:	47	53	45	57	47	55	83	82
145:	45	57	55	46	36	55	37	50
153:	50	55	62	39	38	46	57	38
161:	38	39	74	55	32	48	45	45
169:	39	48	37	41	45	36	36	35
177:	33	41	55	32	32	53	59	74
185:	138	181	65	44	34	40	30	41
193:	44	32	42	51	37	44	40	29
201:	40	38	44	38	49	52	30	48
209:	86	57	50	37	34	30	29	36
217:	25	27	27	32	26	38	42	26
225:	35	35	29	27	28	24	31	32
233:	28	30	72	116	74	501	532	113
241:	94	96	35	26	23	28	21	24
249:	17	13	15	30	34	26	22	30
257:	24	19	32	29	31	20	25	23
265:	18	23	33	27	29	69	45	22
273:	24	15	36	32	42	34	30	26
281:	21	16	24	17	18	26	23	19
289:	28	16	19	22	16	34	78	46
297:	22	18	28	70	37	23	22	13
305:	23	22	16	11	7	20	18	19
313:	20	15	15	19	18	15	19	15
321:	25	19	16	29	16	23	31	54
329:	23	12	27	34	24	20	19	28
337:	46	108	85	28	20	17	18	19
345:	19	19	18	18	30	23	61	126
353:	47	10	25	14	16	17	12	12
361:	13	14	11	15	16	13	12	19
369:	10	22	11	19	19	18	14	11
377:	11	17	12	17	14	16	14	13
385:	19	19	17	13	12	14	9	12
393:	11	13	17	13	19	11	18	9
401:	18	21	20	12	15	11	18	22
409:	33	25	15	5	13	19	8	13
417:	8	9	14	10	10	9	17	13
425:	7	12	16	19	15	4	10	10

433:	9	11	17	10	10	10	11	15
441:	10	18	13	12	8	10	6	11
449:	13	8	13	16	22	12	10	15
457:	8	8	14	15	18	18	43	23
465:	11	21	17	10	4	10	20	12
473:	15	18	12	12	14	8	8	14
481:	8	15	9	16	11	10	7	8
489:	12	14	13	8	7	8	9	10
497:	14	12	12	12	11	15	8	13
505:	9	15	11	11	16	56	98	40
513:	11	12	17	15	13	10	9	7
521:	10	9	4	16	18	10	8	8
529:	12	7	8	9	6	6	9	13
537:	11	10	9	9	14	9	8	12
545:	9	13	11	12	7	13	8	8
553:	14	8	8	6	8	10	8	10
561:	10	7	16	9	11	9	11	6
569:	7	13	12	9	13	11	9	17
577:	10	3	12	12	27	59	190	131
585:	33	10	13	7	11	7	13	8
593:	8	5	8	14	8	8	20	14
601:	8	11	9	8	7	14	11	31
609:	59	79	14	10	5	9	11	13
617:	12	8	9	13	10	9	7	12
625:	7	8	9	9	12	7	9	7
633:	6	10	7	8	11	8	12	8
641:	9	9	9	7	6	11	4	7
649:	9	5	8	12	9	6	8	8
657:	9	8	4	6	9	10	10	7
665:	17	11	11	7	10	5	9	9
673:	5	7	10	11	4	14	6	10
681:	7	6	8	10	8	5	8	13
689:	13	4	7	6	5	6	13	9
697:	10	13	14	7	9	14	4	9
705:	9	8	12	11	5	6	9	9
713:	7	8	8	8	8	10	9	10
721:	3	10	10	14	6	13	30	27
729:	8	7	9	8	11	4	6	8
737:	9	7	16	11	8	7	11	9
745:	2	6	4	11	8	7	8	8
753:	7	11	11	11	6	7	8	8
761:	8	10	7	3	13	12	8	20
769:	10	8	10	8	10	5	9	5
777:	7	8	4	6	9	10	10	7
785:	8	14	9	5	4	9	2	5
793:	6	8	20	24	8	3	3	5
801:	6	8	10	11	6	5	8	10
809:	3	6	1	4	1	3	4	6
817:	6	4	8	6	7	4	5	6
825:	7	3	2	7	5	5	14	8
833:	4	5	8	16	6	4	9	13
841:	17	8	6	9	8	4	8	7
849:	5	5	6	6	3	3	4	6
857:	4	5	3	11	28	10	6	7
865:	6	4	5	7	3	4	1	5
873:	2	2	4	2	4	5	9	2
881:	2	5	6	5	4	5	2	3
889:	4	4	4	2	3	7	5	4
897:	1	3	2	3	5	2	5	10
905:	6	6	3	7	11	23	86	110

913:	26	6	8	2	2	4	4	5
921:	1	1	2	3	3	4	3	3
929:	3	1	8	8	7	3	6	5
937:	5	4	2	1	2	0	8	2
945:	5	3	2	3	1	5	2	3
953:	3	4	6	4	4	6	1	5
961:	5	5	6	16	14	13	7	22
969:	42	42	7	7	5	5	3	2
977:	1	3	1	1	5	2	2	3
985:	3	3	5	6	7	4	1	4
993:	4	4	3	2	1	3	3	8
1001:	12	9	3	1	1	2	1	2
1009:	3	6	0	3	2	2	3	5
1017:	3	5	3	3	3	3	2	1
1025:	2	2	2	2	3	1	2	1
1033:	0	1	2	1	2	3	3	6
1041:	4	3	1	4	4	2	3	2
1049:	1	6	3	1	9	2	1	3
1057:	3	6	3	2	5	3	1	2
1065:	1	3	1	6	1	5	2	2
1073:	3	3	5	3	1	3	9	5
1081:	1	3	2	1	2	6	3	3
1089:	3	7	2	3	4	2	3	7
1097:	2	2	4	2	1	4	4	1
1105:	2	3	3	1	0	2	3	2
1113:	2	2	0	4	3	4	6	9
1121:	16	6	2	6	6	3	1	3
1129:	2	2	6	4	1	3	4	0
1137:	1	2	4	5	0	5	2	3
1145:	2	3	3	0	1	4	6	4
1153:	1	1	9	3	3	4	2	1
1161:	1	2	7	2	1	3	1	2
1169:	3	5	5	4	3	5	3	2
1177:	3	4	1	2	6	4	8	4
1185:	0	0	3	4	3	2	5	1
1193:	1	0	2	2	3	2	4	7
1201:	3	2	3	3	0	2	4	4
1209:	1	5	3	3	4	4	1	2
1217:	2	4	3	4	3	1	1	5
1225:	3	2	1	2	0	0	1	0
1233:	2	3	1	4	1	4	6	4
1241:	1	1	3	3	4	6	6	3
1249:	2	5	1	2	2	1	1	1
1257:	2	2	1	2	2	5	1	2
1265:	0	2	2	0	3	4	2	3
1273:	0	3	1	3	1	2	3	3
1281:	5	1	3	5	1	0	1	5
1289:	1	0	0	3	3	1	1	3
1297:	2	5	1	4	3	3	4	2
1305:	1	2	3	2	0	6	3	0
1313:	2	2	2	1	2	4	2	1
1321:	2	4	3	1	1	2	2	1
1329:	4	1	3	1	3	2	3	4
1337:	2	4	2	2	3	3	1	4
1345:	4	2	2	1	1	1	5	0
1353:	2	3	2	4	1	2	1	1
1361:	1	2	3	0	6	3	2	1
1369:	1	1	2	2	2	2	2	2
1377:	6	11	1	5	6	3	2	2
1385:	0	1	0	1	1	6	2	2

1393:	6	1	2	0	2	4	5	2
1401:	3	1	3	2	2	1	3	2
1409:	3	1	5	0	1	2	1	4
1417:	4	1	1	4	4	2	3	2
1425:	0	1	2	1	1	1	0	3
1433:	0	2	0	2	0	2	2	5
1441:	2	0	5	1	1	1	2	2
1449:	3	1	1	1	3	0	1	2
1457:	1	3	4	17	21	18	6	1
1465:	4	0	0	0	4	2	1	1
1473:	0	0	4	0	6	0	6	2
1481:	0	1	0	1	2	2	1	2
1489:	3	2	0	0	0	3	3	4
1497:	3	5	2	0	2	4	4	1
1505:	2	0	4	4	1	1	1	2
1513:	3	4	2	1	1	0	3	1
1521:	2	1	1	1	0	0	0	1
1529:	1	1	1	2	2	2	1	0
1537:	2	2	2	2	2	0	2	3
1545:	0	0	3	1	2	3	0	0
1553:	0	2	0	0	1	1	2	1
1561:	0	0	2	1	0	1	2	2
1569:	2	1	2	2	1	1	1	1
1577:	1	2	0	2	3	5	4	1
1585:	2	4	2	3	9	6	2	3
1593:	4	4	1	1	0	2	2	1
1601:	2	1	0	0	2	1	0	1
1609:	3	0	1	2	1	2	4	0
1617:	0	2	2	2	3	5	2	0
1625:	1	2	3	1	0	1	4	7
1633:	0	0	0	0	1	1	1	5
1641:	0	1	1	0	0	1	3	1
1649:	5	2	0	2	2	1	0	0
1657:	3	0	0	2	2	0	1	2
1665:	4	1	4	0	2	2	2	0
1673:	0	0	1	1	1	1	1	4
1681:	3	0	0	0	0	0	2	0
1689:	0	2	0	0	1	2	2	1
1697:	2	0	3	0	1	0	1	1
1705:	0	1	1	0	0	5	1	0
1713:	3	2	1	1	1	0	3	0
1721:	0	3	1	2	1	1	2	0
1729:	2	1	2	1	0	4	1	0
1737:	2	1	3	1	2	1	1	3
1745:	1	0	0	0	2	2	2	0
1753:	2	1	3	3	1	0	3	0
1761:	0	1	2	5	9	7	5	4
1769:	2	1	0	1	0	0	0	0
1777:	2	1	0	0	2	0	4	0
1785:	0	2	0	1	1	0	0	2
1793:	1	0	0	0	1	3	0	1
1801:	0	1	0	1	1	1	3	2
1809:	1	0	2	0	1	0	0	2
1817:	3	0	0	0	1	0	3	0
1825:	1	1	2	2	1	2	3	3
1833:	0	0	0	5	1	0	0	1
1841:	1	2	0	1	2	3	1	0
1849:	2	1	5	0	0	0	1	1
1857:	0	3	0	2	3	0	0	2
1865:	1	1	2	2	3	0	1	0

1873:	2	4	0	0	0	2	2	0
1881:	0	0	2	2	1	0	1	0
1889:	0	1	2	3	2	1	1	2
1897:	1	2	2	0	1	0	1	1
1905:	4	1	1	1	0	3	1	1
1913:	1	0	1	0	0	2	1	0
1921:	1	0	1	3	0	2	1	2
1929:	1	1	1	0	1	0	2	2
1937:	1	1	0	1	3	0	1	2
1945:	1	2	0	1	0	0	0	1
1953:	0	0	0	0	0	0	1	0
1961:	0	0	0	1	1	1	1	1
1969:	1	3	1	0	2	1	2	0
1977:	0	0	0	1	1	1	0	2
1985:	0	1	0	0	0	0	2	0
1993:	1	1	1	1	2	0	1	0
2001:	2	1	0	1	0	3	1	1
2009:	2	0	0	1	1	3	0	0
2017:	0	2	1	1	1	0	0	1
2025:	0	1	2	1	1	2	1	0
2033:	0	1	1	1	1	1	0	1
2041:	0	1	1	0	2	2	1	2
2049:	0	1	1	0	0	0	0	1
2057:	1	2	2	1	1	3	2	1
2065:	2	1	3	0	0	0	1	2
2073:	2	0	2	0	3	0	1	3
2081:	0	0	1	1	0	1	0	0
2089:	2	3	1	3	0	1	0	3
2097:	0	2	0	0	2	4	5	6
2105:	7	6	4	2	3	0	0	1
2113:	3	1	0	1	4	0	3	2
2121:	2	0	0	3	1	1	0	0
2129:	1	0	0	2	2	0	1	0
2137:	1	0	0	1	1	1	0	1
2145:	4	1	1	1	1	2	2	2
2153:	0	0	1	1	0	0	0	2
2161:	2	0	0	2	0	1	1	3
2169:	1	1	0	0	1	2	2	4
2177:	2	1	0	0	0	0	0	3
2185:	1	2	0	0	2	2	3	2
2193:	0	3	1	0	2	0	1	2
2201:	1	1	0	2	2	1	5	0
2209:	1	1	1	1	0	1	1	0
2217:	2	2	0	1	1	2	0	3
2225:	0	0	1	2	2	0	0	0
2233:	0	0	0	0	1	0	3	1
2241:	2	0	0	0	2	0	0	0
2249:	0	1	2	1	1	2	1	1
2257:	3	2	1	1	3	0	1	0
2265:	1	1	1	3	0	0	0	2
2273:	0	1	2	1	1	0	1	1
2281:	2	0	1	0	1	4	4	1
2289:	1	0	0	3	1	1	3	1
2297:	1	2	0	2	0	1	2	2
2305:	2	2	3	0	1	2	3	0
2313:	1	0	0	0	0	0	2	0
2321:	0	2	1	1	0	2	0	2
2329:	3	4	1	2	0	1	4	1
2337:	0	0	0	0	2	1	1	1
2345:	0	1	2	0	2	1	0	2

2353:	1	2	1	0	1	2	2	1
2361:	1	2	2	3	1	0	2	2
2369:	2	4	2	0	2	2	0	1
2377:	2	2	0	1	2	0	1	2
2385:	0	1	4	0	0	0	1	0
2393:	0	2	4	0	0	0	0	1
2401:	3	2	0	3	0	1	0	3
2409:	0	1	3	2	0	0	0	2
2417:	0	1	0	1	1	1	0	0
2425:	0	1	1	1	1	0	0	1
2433:	0	1	0	2	1	0	1	1
2441:	0	1	0	0	0	1	2	1
2449:	2	0	2	1	1	1	1	0
2457:	1	2	1	1	1	0	0	0
2465:	0	0	2	2	2	1	2	0
2473:	3	2	0	1	0	0	0	0
2481:	1	4	2	0	1	1	0	0
2489:	0	0	0	0	0	0	2	0
2497:	1	0	1	0	1	0	1	1
2505:	1	0	0	0	1	0	0	0
2513:	0	0	1	2	1	2	1	0
2521:	0	0	0	1	1	1	0	1
2529:	0	0	1	0	0	0	0	0
2537:	0	1	0	0	1	0	0	1
2545:	0	1	2	0	0	0	0	1
2553:	0	2	0	0	1	0	0	0
2561:	1	1	1	1	3	1	0	0
2569:	0	2	0	0	1	0	1	0
2577:	0	0	0	0	0	1	0	0
2585:	0	0	1	1	0	1	0	0
2593:	0	1	0	1	1	0	0	0
2601:	0	0	1	1	0	0	1	0
2609:	1	0	3	4	5	19	41	48
2617:	18	6	0	0	0	0	1	0
2625:	1	1	0	1	0	1	0	0
2633:	0	0	0	1	0	1	1	0
2641:	0	1	0	0	1	0	0	0
2649:	1	0	2	1	1	1	0	0
2657:	0	0	0	0	0	0	1	1
2665:	0	0	0	1	0	1	0	0
2673:	1	0	1	0	0	1	0	1
2681:	1	1	0	2	0	1	2	0
2689:	0	2	1	0	0	1	0	0
2697:	1	1	1	1	1	0	0	0
2705:	1	0	0	0	0	0	0	0
2713:	0	1	0	0	0	0	0	0
2721:	1	0	0	0	0	0	0	2
2729:	0	0	0	2	0	1	1	0
2737:	0	2	0	1	0	2	0	1
2745:	0	0	0	2	0	0	0	1
2753:	1	0	0	0	0	0	0	1
2761:	0	1	1	0	1	0	0	1
2769:	0	0	0	0	1	0	1	1
2777:	1	0	0	1	0	2	1	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	1	1	0	0	1	0
2801:	1	0	0	1	0	1	0	0
2809:	0	0	0	1	0	0	0	1
2817:	0	1	1	0	0	0	0	0
2825:	0	2	1	1	1	0	0	1

2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	1	2	0	0	0
2849:	1	0	0	0	0	0	1	1
2857:	0	0	0	0	0	1	0	1
2865:	1	0	0	0	0	1	0	0
2873:	0	0	0	0	1	0	1	0
2881:	0	1	0	2	0	0	1	0
2889:	0	0	1	0	1	0	0	0
2897:	0	0	0	1	1	0	0	0
2905:	0	0	0	0	0	0	0	0
2913:	0	0	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	1	1	0	0	0	0	0	0
2945:	0	0	0	0	0	1	0	0
2953:	1	0	0	1	0	1	0	0
2961:	0	0	0	0	0	0	0	0
2969:	0	1	0	1	1	0	0	0
2977:	0	1	0	1	1	0	2	1
2985:	0	0	0	1	0	0	0	2
2993:	0	1	0	0	1	0	0	0
3001:	0	0	1	0	1	0	0	0
3009:	0	0	0	1	0	0	0	2
3017:	0	0	0	1	0	0	1	0
3025:	1	0	0	0	0	0	0	0
3033:	2	1	1	0	2	0	0	0
3041:	0	0	0	0	1	0	0	0
3049:	1	1	0	0	0	1	0	0
3057:	0	0	0	0	0	0	0	1
3065:	0	1	0	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	1	0	0	0	0	1	1	1
3089:	0	0	0	0	1	0	0	1
3097:	0	0	0	0	0	0	0	2
3105:	0	1	0	1	1	0	0	0
3113:	1	0	0	0	0	1	0	0
3121:	1	0	0	1	3	0	0	0
3129:	1	0	1	0	0	0	0	0
3137:	0	0	0	0	0	0	0	0
3145:	0	0	0	0	1	0	0	1
3153:	1	0	0	0	0	0	0	0
3161:	0	0	0	0	0	0	0	0
3169:	0	0	0	0	0	0	0	0
3177:	0	1	0	1	0	0	0	1
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	0	0	1	0	1
3201:	0	0	1	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	0	0	0	1	0	0	0
3225:	1	0	1	1	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	3	0	1	0	0
3249:	0	0	0	0	0	0	0	0
3257:	1	0	0	0	0	0	0	0
3265:	0	1	2	1	1	0	0	0
3273:	1	1	0	0	0	0	0	0
3281:	0	0	0	0	1	0	0	0
3289:	0	0	0	0	2	0	0	0
3297:	0	0	0	0	0	0	1	0
3305:	1	1	0	0	1	0	0	0

3313:	0	1	0	0	0	0	0	0
3321:	0	0	0	0	0	1	0	0
3329:	0	0	1	0	0	0	0	0
3337:	0	0	0	0	1	0	1	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	1	1	0	0	0
3361:	0	0	0	1	0	1	0	1
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	0	0
3385:	0	0	1	0	0	1	0	0
3393:	0	0	0	0	0	2	1	0
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	1	0	0	0
3417:	0	0	0	0	0	1	0	0
3425:	0	1	1	1	0	0	0	1
3433:	0	0	0	0	0	1	0	0
3441:	1	0	0	0	0	1	0	0
3449:	0	1	0	0	1	0	0	1
3457:	0	0	1	0	0	0	0	0
3465:	0	1	0	0	1	0	1	0
3473:	0	0	0	3	0	0	0	0
3481:	0	0	0	0	1	0	0	1
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	1	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	1	1	0	1	0	0	0	0
3561:	0	0	1	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	2	0	0	1	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	1	0	0	0	0	0
3617:	1	0	0	0	0	0	0	0
3625:	0	0	1	0	2	0	0	0
3633:	0	0	0	1	0	0	0	1
3641:	1	1	0	0	0	1	0	1
3649:	1	0	0	1	1	0	0	0
3657:	0	0	0	0	0	0	0	1
3665:	0	0	1	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	1	0	0	1	0
3689:	0	0	0	1	0	0	0	1
3697:	0	0	0	0	0	0	0	0
3705:	1	0	0	0	0	0	0	1
3713:	0	1	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	1	0	0	0	0	0	1
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	1	0	0	0	0
3761:	0	0	0	1	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	0	0	0	0	0	0
3785:	0	0	1	1	0	0	0	1

3793:	0	0	1	0	0	1	0	1
3801:	0	0	0	0	0	0	0	1
3809:	0	0	0	0	0	1	0	0
3817:	0	0	0	1	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	1	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	1	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	1	0
3873:	0	1	0	0	0	0	0	0
3881:	0	0	0	0	0	1	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	1	0
3905:	1	0	0	0	0	0	0	0
3913:	0	0	0	1	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	2	0	0	0	0
3937:	0	0	0	1	1	0	0	0
3945:	0	0	0	0	1	0	1	0
3953:	0	0	1	1	0	1	1	0
3961:	2	0	0	0	0	0	0	0
3969:	0	1	0	0	0	1	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	1
3993:	0	0	0	1	0	0	0	0
4001:	0	0	0	0	2	0	0	0
4009:	0	0	0	0	0	0	0	1
4017:	1	1	0	0	1	0	0	2
4025:	0	0	0	0	0	0	0	1
4033:	0	0	0	0	1	0	0	0
4041:	0	0	1	0	0	0	0	0
4049:	1	1	1	1	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	1	0	0	0	1	1	0
4073:	0	0	0	0	0	1	0	0
4081:	0	0	0	0	0	0	0	1
4089:	0	0	1	0	0	0	1	0

KM 7-9-10

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

VAX/VMS Peak Search Report Generated 9-JUL-2010 09:38:15.03

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606112_GE4_GAS1002_151306.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-10B
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 08:37:59.
Sample ID : 1006061-12 Sample Quantity : 2.46910E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.29 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.43*	656	700	2.17	63.42	59	8	16.2		TH-234
0	76.43*	670	969	3.69	76.41	70	12	20.2		
7	84.99*	162	347	3.07	84.96	82	16	37.2	3.28E+00	
7	88.19	216	599	3.09	88.17	82	16	47.1		SN-126
										CD-109
7	93.00*	1181	432	2.45	92.97	82	16	8.5		
0	143.80	83	326	1.97	143.76	140	9	81.7		U-235
0	155.52	43	217	1.85	155.47	152	7	119.8		
2	160.47	37	84	2.40	160.42	159	12	70.2	2.91E+00	TE123M
2	164.64	49	201	2.41	164.58	159	12	102.4		U-235
										CE-139
0	186.03*	442	280	2.42	185.97	180	12	18.2		RA-226
1	196.27*	36	40	1.89	196.20	195	8	50.9	8.34E+00	
1	199.87	29	157	2.22	199.80	195	8	148.5		
3	239.13*	394	116	2.16	239.05	234	12	13.2	3.54E+00	PB-212
3	242.17	86	110	2.44	242.08	234	12	65.4		RA-224
0	271.45	26	82	1.84	271.36	269	6	118.2		LU-173
0	296.43*	121	184	2.13	296.32	292	11	47.1		PB-214
0	352.16*	197	105	1.89	352.03	346	11	24.8		PB-214
0	436.68	37	89	8.97	436.51	429	15	116.7		
0	583.60*	88	44	2.25	583.37	579	11	36.5		TL-208
0	609.96*	116	49	2.32	609.72	605	9	29.4		BI-214
0	616.41	17	14	2.13	616.17	614	5	82.0		
0	649.69	18	17	1.49	649.44	646	7	90.4		
1	725.29	12	7	2.28	725.00	724	9	69.0	8.13E+00	
1	729.29	21	10	2.28	729.00	724	9	74.2		
0	793.36	31	14	2.78	793.04	787	11	57.9		
3	883.66	9	2	2.73	883.31	882	10	55.6	6.63E-01	
3	888.31	15	6	3.11	887.96	882	10	85.7		SC-46
0	911.94	79	8	2.07	911.58	908	10	26.1		AC-228
0	970.01	26	24	2.13	969.62	965	8	79.2		AC-228
0	983.62	19	3	2.85	983.23	976	15	64.3		
0	1001.70	32	18	2.91	1001.30	995	12	63.9		PA-234M
0	1054.12	10	9	1.19	1053.70	1049	9	125.3		
0	1089.38	10	7	2.42	1088.94	1084	9	108.7		
0	1105.83	13	12	5.47	1105.38	1099	12	120.2		

AG 7/12/10

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1120.45	16	21	1.46	1120.00	1117		8107.7		BI-214 SC-46
0	1187.01	17	12	4.92	1186.53	1179	12	94.9		
0	1251.45	9	9	2.24	1250.95	1248		8124.9		
0	1300.15	8	0	1.10	1299.63	1296	6	70.7		
0	1461.38*	27	8	1.97	1460.79	1456	10	54.7		K-40
0	1516.08	6	5	3.00	1515.46	1509		9142.4		
0	1557.65	6	3	0.91	1557.02	1553		7127.3		
0	1567.95	5	2	1.68	1567.31	1563		6148.4		
0	1575.87	7	5	2.76	1575.23	1571		7133.9		
0	1662.93	5	2	2.70	1662.26	1659		6127.7		
0	1729.99	7	0	3.41	1729.29	1725	8	75.6		
0	1765.46	9	4	1.32	1764.75	1760	7	93.2		BI-214
0	2294.79	6	2	1.11	2293.86	2289		8114.3		
0	2301.34	5	0	1.24	2300.40	2297	6	89.4		
0	2343.64	5	2	2.55	2342.69	2337		9137.0		
0	2615.25*	34	3	3.00	2614.18	2608	10	39.8		TL-208

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

Total number of lines in spectrum	50	
Number of unidentified lines	23	
Number of lines tentatively identified by NID	27	54.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.632E+00	4.632E+00	2.580E+00	55.69	
TL-208	1.41E+10Y	1.00	2.265E+00	2.265E+00	0.642E+00	28.37	
PB-212	1.41E+10Y	1.00	2.797E+00	2.797E+00	0.524E+00	18.75	
BI-214	1602.00Y	1.00	1.822E+00	1.822E+00	0.567E+00	31.10	
PB-214	1602.00Y	1.00	2.419E+00	2.419E+00	0.607E+00	25.10	
RA-224	1.41E+10Y	1.00	6.974E+00	6.974E+00	4.655E+00	66.75	
RA-226	1602.00Y	1.00	3.495E+01	3.495E+01	6.436E+01	184.13	
AC-228	1.41E+10Y	1.00	3.072E+00	3.072E+00	0.831E+00	27.05	
PA-234M	4.47E+09Y	1.00	4.603E+01	4.603E+01	2.978E+01	64.70	
TH-234	4.47E+09Y	1.00	3.381E+01	3.381E+01	0.620E+01	18.34	
U-235	7.04E+08Y	1.00	1.740E+00	1.740E+00	1.457E+00	83.73	
			---	---			
	Total Activity :		1.405E+02	1.405E+02			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
SC-46	83.83D	1.36	1.820E-01	2.479E-01	2.140E-01	86.31	
LU-173	1.37Y	1.05	4.384E-01	4.617E-01	5.505E-01	119.23	
			---	---			
	Total Activity :		6.204E-01	7.096E-01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	1.093E+01	1.155E+01	0.562E+01	48.62	
TE123M	119.70D	1.24	1.036E-01	1.286E-01	0.912E-01	70.90	
SN-126	1.00E+05Y	1.00	1.098E+00	1.098E+00	0.530E+00	48.25	
CE-139	137.66D	1.21	1.463E-01	1.766E-01	1.816E-01	102.84	
			---	---			
	Total Activity :		1.227E+01	1.296E+01			

Grand Total Activity : 1.534E+02 1.542E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	4.632E+00	4.632E+00	55.69	OK
	Final Mean for 1 Valid Peaks = 4.632E+00+/- 2.580E+00 (55.69%)						
TL-208	583.14	30.22*	3.936E-01	2.258E+00	2.258E+00	39.04	OK
	860.37	4.48	2.647E-01	----- Line Not Found		-----	Absent
	2614.66	35.85	1.255E-01	2.272E+00	2.272E+00	41.29	OK
	Final Mean for 2 Valid Peaks = 2.265E+00+/- 6.424E-01 (28.37%)						
PB-212	238.63	44.60*	9.611E-01	2.797E+00	2.797E+00	18.75	OK
	300.09	3.41	7.792E-01	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 2.797E+00+/- 5.244E-01 (18.75%)						
BI-214	609.31	46.30*	3.759E-01	2.019E+00	2.019E+00	32.33	OK
	1120.29	15.10	2.073E-01	1.583E+00	1.583E+00	108.16	<<WM Interf
	1764.49	15.80	1.482E-01	1.219E+00	1.219E+00	93.74	OK
	2204.22	4.98	1.326E-01	----- Line Not Found		-----	Absent
	Final Mean for 2 Valid Peaks = 1.822E+00+/- 5.668E-01 (31.10%)						
PB-214	295.21	19.19	7.915E-01	2.422E+00	2.422E+00	49.64	OK
	351.92	37.19*	6.661E-01	2.418E+00	2.418E+00	29.09	OK
	Final Mean for 2 Valid Peaks = 2.419E+00+/- 6.071E-01 (25.10%)						
RA-224	240.98	3.95*	9.529E-01	6.974E+00	6.974E+00	66.75	OK
	Final Mean for 1 Valid Peaks = 6.974E+00+/- 4.655E+00 (66.75%)						
RA-226	186.21	3.28*	1.172E+00	3.495E+01	3.495E+01	184.13	OK
	Final Mean for 1 Valid Peaks = 3.495E+01+/- 6.436E+01 (184.13%)						
AC-228	338.32	11.40	6.929E-01	----- Line Not Found		-----	Absent
	911.07	27.70*	2.505E-01	3.456E+00	3.456E+00	28.08	OK
	969.11	16.60	2.363E-01	2.015E+00	2.015E+00	79.88	OK
	Final Mean for 2 Valid Peaks = 3.072E+00+/- 8.310E-01 (27.05%)						
PA-234M	1001.03	0.92*	2.293E-01	4.603E+01	4.603E+01	64.70	OK
	Final Mean for 1 Valid Peaks = 4.603E+01+/- 2.978E+01 (64.70%)						
TH-234	63.29	3.80*	1.551E+00	3.381E+01	3.381E+01	18.34	OK
	Final Mean for 1 Valid Peaks = 3.381E+01+/- 6.201E+00 (18.34%)						

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
U-235	143.76	10.50*	1.381E+00	1.740E+00	1.740E+00	83.73	OK
	163.35	4.70	1.281E+00	2.476E+00	2.476E+00	104.24	<<WM Interf
	205.31	4.70	1.088E+00	----- Line Not Found		-----	Absent

Final Mean for 1 Valid Peaks = 1.740E+00+/- 1.457E+00 (83.73%)

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
SC-46	889.25	99.98*	2.564E-01	1.820E-01	2.479E-01	86.31	OK
	1120.51	99.99	2.073E-01	2.391E-01	3.257E-01	108.16	<<WM Interf

Final Mean for 1 Valid Peaks = 2.479E-01+/- 2.140E-01 (86.31%)

LU-173	100.72	5.24	1.584E+00	----- Line Not Found		-----	Absent
	272.11	21.20*	8.545E-01	4.384E-01	4.617E-01	119.23	OK

Final Mean for 1 Valid Peaks = 4.617E-01+/- 5.505E-01 (119.23%)

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	1.615E+00	1.093E+01	1.155E+01	48.62	OK

Final Mean for 1 Valid Peaks = 1.155E+01+/- 5.617E+00 (48.62%)

TE123M	159.00	84.10*	1.303E+00	1.036E-01	1.286E-01	70.90	OK

Final Mean for 1 Valid Peaks = 1.286E-01+/- 9.118E-02 (70.90%)

SN-126	87.57	37.00*	1.615E+00	1.098E+00	1.098E+00	48.25	OK

Final Mean for 1 Valid Peaks = 1.098E+00+/- 5.298E-01 (48.25%)

CE-139	165.85	80.35*	1.269E+00	1.463E-01	1.766E-01	102.84	OK

Final Mean for 1 Valid Peaks = 1.766E-01+/- 1.816E-01 (102.84%)

Flag: "*" = Keyline

Sample ID : 1006061-12
Acquisition date : 9-JUL-2010 08:37:59

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	4.632E+00	2.580E+00	2.336E+00	2.312E-01	1.983
SC-46	2.479E-01	2.140E-01	3.517E-01	3.426E-02	0.705
CD-109	1.155E+01	5.617E+00	5.031E+00	5.691E-01	2.297
TE123M	1.286E-01	9.118E-02	2.142E-01	1.944E-02	0.600
SN-126	1.098E+00	5.298E-01	4.781E-01	4.587E-02	2.297
CE-139	1.766E-01	1.816E-01	2.437E-01	2.145E-02	0.724
LU-173	4.617E-01	5.505E-01	9.430E-01	1.393E-01	0.490
TL-208	2.265E+00	6.424E-01	7.883E-01	1.052E-01	2.873
PB-212	2.797E+00	5.244E-01	3.842E-01	4.863E-02	7.279
BI-214	1.822E+00	5.668E-01	6.415E-01	8.302E-02	2.841
PB-214	2.419E+00	6.071E-01	5.057E-01	7.383E-02	4.783
RA-224	6.974E+00	4.655E+00	4.377E+00	5.602E-01	1.593
RA-226	3.495E+01	6.436E+01	4.829E+00	8.846E+00	7.238
AC-228	3.072E+00	8.310E-01	1.114E+00	1.070E-01	2.756
PA-234M	4.603E+01	2.978E+01	2.918E+01	2.800E+00	1.577
TH-234	3.381E+01	6.201E+00	5.464E+00	4.138E-01	6.188
U-235	1.740E+00	1.457E+00	1.518E+00	2.735E-01	1.146

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-1.550E-02		1.901E+00	3.322E+00	4.660E-01	-0.005
NA-22	2.309E-02		1.597E-01	3.208E-01	3.034E-02	0.072
AL-26	-1.684E-02		1.483E-01	2.943E-01	2.672E-02	-0.057
TI-44	7.967E-02		1.811E-01	2.261E-01	1.780E-02	0.352
V-48	1.235E+00	+	8.041E-01	1.409E+00	1.354E-01	0.876
CR-51	-1.017E+00		2.650E+00	4.449E+00	6.828E-01	-0.228
MN-54	3.245E-03		1.841E-01	3.250E-01	3.431E-02	0.010
CO-56	4.917E-02		2.183E-01	4.007E-01	4.165E-02	0.123
CO-57	-1.076E-02		1.132E-01	1.936E-01	1.996E-02	-0.056
CO-58	-1.672E-01		2.151E-01	3.338E-01	3.630E-02	-0.501
FE-59	2.413E-01		4.252E-01	7.976E-01	7.994E-02	0.303
CO-60	5.994E-02		1.287E-01	2.686E-01	2.436E-02	0.223
ZN-65	3.241E-01		4.972E-01	7.681E-01	7.163E-02	0.422
SE-75	3.149E-02		2.355E-01	3.671E-01	5.257E-02	0.086
RB-82	1.163E+00		3.731E+00	6.758E+00	7.580E-01	0.172
RB-83	-4.194E-01		4.031E-01	6.082E-01	1.161E-01	-0.690
KR-85	7.512E+01		4.199E+01	7.892E+01	1.102E+01	0.952
SR-85	4.865E-01		2.719E-01	5.111E-01	7.134E-02	0.952
Y-88	-1.996E-02		1.606E-01	3.277E-01	2.948E-02	-0.061
NB-93M	3.275E+01		1.657E+01	1.307E+01	6.077E+00	2.506
NB-94	-3.450E-02		1.643E-01	2.820E-01	2.829E-02	-0.122
NB-95	2.820E-01		3.900E-01	7.293E-01	8.256E-02	0.387
ZR-95	-2.439E-01		4.417E-01	7.165E-01	8.645E-02	-0.340
RU-103	-6.384E-02		2.709E-01	4.618E-01	8.295E-02	-0.138
RU-106	-7.070E-01		1.728E+00	2.512E+00	4.095E-01	-0.281
AG-108M	-3.017E-02		1.912E-01	2.909E-01	3.382E-02	-0.104

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
AG-110M	4.989E-02		1.780E-01	2.943E-01	3.517E-02	0.170
SN-113	-2.165E-01		2.277E-01	3.576E-01	4.902E-02	-0.605
SB-124	4.127E-02		2.692E-01	4.261E-01	5.562E-02	0.097
I-125	-1.872E+00		3.213E+00	5.436E+00	6.007E-01	-0.344
SB-125	3.988E-02		4.491E-01	7.071E-01	9.868E-02	0.056
SB-126	-7.063E-01		2.841E+00	4.229E+00	4.922E-01	-0.167
I-129	-1.428E-01		3.081E-01	5.245E-01	7.332E-02	-0.272
I-131	-3.883E+00		3.465E+00	5.332E+00	7.636E-01	-0.728
BA-133	3.996E-01		2.344E-01	4.019E-01	7.083E-02	0.994
CS-134	2.069E-01		1.971E-01	3.406E-01	4.439E-02	0.608
CS-135	1.351E-01		7.668E-01	1.194E+00	1.734E-01	0.113
CS-136	-5.879E-01		1.285E+00	1.989E+00	1.943E-01	-0.296
CS-137	-1.229E-01		1.823E-01	2.915E-01	3.460E-02	-0.422
LA-138	4.055E-02		2.045E-01	4.315E-01	4.179E-02	0.094
BA-140	-1.776E+00		3.656E+00	5.976E+00	2.083E+00	-0.297
LA-140	3.869E-01		1.134E+00	2.459E+00	2.350E-01	0.157
CE-141	6.013E-01		4.861E-01	8.235E-01	2.255E-01	0.730
CE-144	-2.000E-01		9.426E-01	1.600E+00	1.592E-01	-0.125
PM-144	-1.255E-01		1.709E-01	2.700E-01	3.178E-02	-0.465
PM-145	-1.435E-01		6.003E-01	1.020E+00	6.667E-01	-0.141
PM-146	5.136E-02		3.045E-01	5.402E-01	7.553E-02	0.095
ND-147	3.278E-01		1.062E+01	1.864E+01	2.585E+00	0.018
EU-152	7.686E-01		1.180E+00	2.517E+00	2.963E-01	0.305
GD-153	-4.244E-01		4.956E-01	7.760E-01	7.628E-02	-0.547
EU-154	5.542E-02		4.392E-01	8.804E-01	8.325E-02	0.063
EU-155	1.725E+00		4.701E-01	7.637E-01	7.245E-02	2.259
EU-156	-6.196E+00		7.959E+00	1.215E+01	2.888E+00	-0.510
HO-166M	1.058E-01		3.259E-01	5.860E-01	6.848E-02	0.180
HF-172	-5.206E-01		8.303E-01	1.382E+00	1.408E-01	-0.377
LU-172	2.893E+00		1.314E+01	1.899E+01	1.784E+00	0.152
HF-175	-6.008E-01		2.914E-01	3.360E-01	4.959E-02	-1.788
LU-176	-5.565E-02		1.303E-01	1.919E-01	2.915E-02	-0.290
TA-182	8.595E-01	+	9.297E-01	1.602E+00	1.489E-01	0.536
IR-192	-2.453E-01		3.742E-01	6.058E-01	8.492E-02	-0.405
HG-203	6.563E-02		2.513E-01	3.974E-01	6.116E-02	0.165
BI-207	-3.173E-02		1.470E-01	2.537E-01	3.428E-02	-0.125
BI-210M	-8.437E-02		2.303E-01	3.866E-01	5.456E-02	-0.218
PB-210	2.073E-01		2.907E+00	5.085E+00	4.322E-01	0.041
PB-211	3.603E+00		4.178E+00	7.720E+00	1.055E+00	0.467
BI-212	1.486E+00		1.549E+00	2.751E+00	3.191E-01	0.540
RN-219	2.220E-01		1.944E+00	3.393E+00	4.628E-01	0.065
RA-223	-7.983E-01		2.883E+00	4.871E+00	7.326E-01	-0.164
RA-225	8.324E-01		2.264E+00	3.977E+00	3.857E-01	0.209
TH-227	4.248E+00		1.374E+00	2.284E+00	2.855E-01	1.860
TH-230	2.761E+01		4.636E+01	5.839E+01	4.589E+00	0.473
PA-231	3.470E+00		5.543E+00	8.953E+00	1.362E+00	0.388
TH-231	3.502E-01		1.610E+00	2.812E+00	5.015E-01	0.125
PA-233	6.609E-02		7.208E-01	1.255E+00	3.223E-01	0.053

Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234	2.685E-01		4.432E-01	7.788E-01	7.805E-02	0.345
NP-237	4.169E+00		1.137E+00	1.846E+00	1.751E-01	2.258
AM-241	7.421E-01		3.950E-01	6.424E-01	4.729E-02	1.155
AM-243	1.343E+00		2.652E-01	4.213E-01	3.537E-02	3.189
CM-243	5.618E-01		7.525E-01	1.243E+00	1.883E-01	0.452

Summary of Nuclide Activity
Sample ID : 1006061-12 Acquisition date : 9-JUL-2010 08:37:59

Total number of lines in spectrum	50	
Number of unidentified lines	23	
Number of lines tentatively identified by NID	27	54.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.632E+00	4.632E+00	2.580E+00	55.69	
TL-208	1.41E+10Y	1.00	2.265E+00	2.265E+00	0.642E+00	28.37	
PB-212	1.41E+10Y	1.00	2.797E+00	2.797E+00	0.524E+00	18.75	
BI-214	1602.00Y	1.00	1.822E+00	1.822E+00	0.567E+00	31.10	
PB-214	1602.00Y	1.00	2.419E+00	2.419E+00	0.607E+00	25.10	
RA-224	1.41E+10Y	1.00	6.974E+00	6.974E+00	4.655E+00	66.75	
RA-226	1602.00Y	1.00	3.495E+01	3.495E+01	6.436E+01	184.13	
AC-228	1.41E+10Y	1.00	3.072E+00	3.072E+00	0.831E+00	27.05	
PA-234M	4.47E+09Y	1.00	4.603E+01	4.603E+01	2.978E+01	64.70	
TH-234	4.47E+09Y	1.00	3.381E+01	3.381E+01	0.620E+01	18.34	
U-235	7.04E+08Y	1.00	1.740E+00	1.740E+00	1.457E+00	83.73	
			---	---			
	Total Activity :		1.405E+02	1.405E+02			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
SC-46	83.83D	1.36	1.820E-01	2.479E-01	2.140E-01	86.31	
LU-173	1.37Y	1.05	4.384E-01	4.617E-01	5.505E-01	119.23	
			---	---			
	Total Activity :		6.204E-01	7.096E-01			

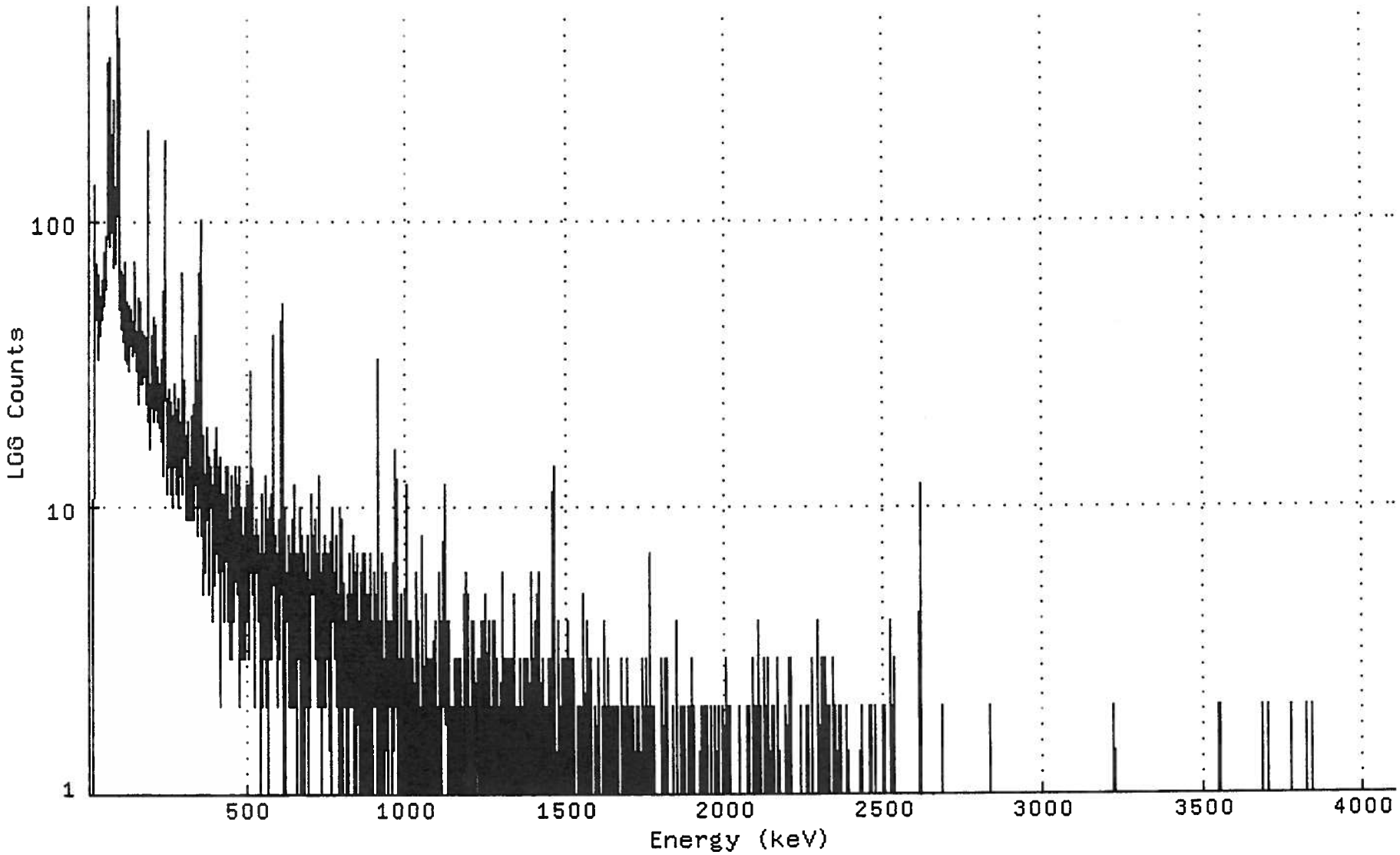
Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	1.093E+01	1.155E+01	0.562E+01	48.62	
TE123M	119.70D	1.24	1.036E-01	1.286E-01	0.912E-01	70.90	
SN-126	1.00E+05Y	1.00	1.098E+00	1.098E+00	0.530E+00	48.25	
CE-139	137.66D	1.21	1.463E-01	1.766E-01	1.816E-01	102.84	
			---	---			
	Total Activity :		1.227E+01	1.296E+01			

Grand Total Activity : 1.534E+02 1.542E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606112_GE4_GAS1002_151306.CNF;1
Title :
Sample Title: S-10B
Start Time: 9-JUL-2010 08:37: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:01.29 Sample ID : 1006061-12 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606112_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	112
17:	133	90	95	74	61	50	49	59
25:	51	72	45	65	47	53	33	45
33:	48	43	42	46	51	40	47	62
41:	59	47	52	47	45	65	79	71
49:	56	50	66	58	88	79	70	80
57:	87	90	87	97	113	149	339	375
65:	164	82	91	88	86	97	97	91
73:	92	139	197	209	263	199	105	94
81:	69	73	79	122	118	100	128	134
89:	103	115	137	343	565	334	112	61
97:	49	63	73	63	42	50	42	47
105:	45	65	38	57	46	48	50	65
113:	73	68	47	38	33	52	32	40
121:	41	50	35	37	40	30	41	50
129:	32	49	37	44	42	46	38	35
137:	40	38	43	34	44	45	56	73
145:	52	35	37	33	36	30	41	31
153:	31	50	53	33	30	32	23	46
161:	38	27	45	48	52	27	41	33
169:	37	31	29	37	33	29	33	30
177:	40	37	23	29	31	39	31	25
185:	125	206	150	40	20	27	25	17
193:	17	23	16	40	27	36	24	37
201:	24	20	28	32	33	46	31	26
209:	31	43	22	31	26	24	27	31
217:	25	29	20	21	27	21	19	26
225:	26	23	26	31	23	33	17	18
233:	29	20	19	13	29	113	193	121
241:	39	53	30	18	11	15	22	19
249:	24	22	15	23	14	16	26	21
257:	11	20	21	12	21	16	19	19
265:	10	21	19	22	14	27	22	17
273:	17	11	11	17	14	22	11	17
281:	14	14	10	12	24	13	14	20
289:	16	18	14	15	11	23	60	66
297:	30	16	15	22	28	22	15	15
305:	9	11	18	16	11	15	18	9
313:	20	11	9	14	11	10	9	11
321:	13	9	16	9	21	11	13	23
329:	19	14	9	12	10	20	14	12
337:	18	30	40	20	10	22	10	8
345:	11	10	13	11	13	19	44	100
353:	58	19	11	8	9	9	18	11
361:	8	10	5	8	11	6	10	7
369:	9	19	9	9	9	11	12	10
377:	15	5	9	9	8	13	13	11
385:	13	10	14	9	12	9	7	10
393:	4	7	9	7	16	10	8	9
401:	19	15	8	7	16	9	14	10
409:	10	6	7	15	2	6	10	9
417:	10	11	9	8	8	11	9	4
425:	11	10	7	7	6	7	9	13

433:	14	8	9	7	4	8	14	12
441:	6	6	3	8	9	8	9	7
449:	6	5	3	8	13	5	10	10
457:	4	9	7	6	8	8	14	12
465:	6	5	10	5	5	6	12	8
473:	3	8	8	14	2	7	3	7
481:	10	6	6	7	6	7	7	3
489:	8	7	7	5	10	3	4	12
497:	5	9	6	4	11	3	6	12
505:	5	6	10	6	10	19	25	30
513:	16	12	6	12	7	7	6	4
521:	8	2	4	5	7	9	9	7
529:	6	6	6	8	7	4	4	5
537:	4	6	1	7	6	3	4	5
545:	5	11	7	2	3	6	3	4
553:	3	7	3	4	10	13	6	4
561:	2	4	9	1	7	7	8	3
569:	4	9	10	4	5	11	3	7
577:	11	4	4	7	7	20	29	40
585:	8	4	8	5	4	4	4	3
593:	5	7	3	2	6	7	4	3
601:	4	9	8	10	8	5	15	26
609:	39	51	16	9	0	5	6	9
617:	10	1	5	3	5	5	5	4
625:	4	6	4	7	8	2	7	5
633:	6	4	4	4	2	7	5	2
641:	4	6	9	7	4	2	5	3
649:	12	7	3	3	1	4	7	3
657:	7	3	3	3	7	6	3	5
665:	5	10	1	9	5	8	3	5
673:	8	1	3	6	7	1	3	3
681:	3	3	2	4	4	4	6	5
689:	1	1	4	6	8	4	2	3
697:	4	4	4	6	7	6	11	6
705:	5	5	7	8	6	6	6	6
713:	4	9	8	3	9	4	7	4
721:	4	5	2	3	7	2	13	7
729:	10	2	5	1	1	6	2	4
737:	6	4	2	4	7	2	8	2
745:	7	5	4	3	3	6	3	7
753:	4	7	5	3	4	2	2	1
761:	7	5	2	7	6	10	6	9
769:	7	8	4	6	5	3	5	6
777:	4	6	8	4	3	2	4	2
785:	5	0	1	4	5	5	1	3
793:	1	10	6	9	0	4	2	4
801:	6	5	2	5	4	3	4	1
809:	2	4	1	4	1	2	3	5
817:	3	4	1	4	2	4	7	4
825:	5	5	5	3	4	4	2	8
833:	1	3	4	3	6	2	6	2
841:	4	5	0	7	3	2	6	3
849:	3	0	3	2	2	4	2	2
857:	2	0	0	6	4	7	2	3
865:	4	2	1	3	0	7	3	3
873:	3	3	5	5	2	5	1	3
881:	2	0	5	2	2	2	4	7
889:	3	3	0	1	3	1	3	4
897:	2	5	3	2	3	3	6	1
905:	5	4	1	0	4	6	33	30

913:	7	1	2	2	2	0	3	4
921:	4	2	3	5	1	7	2	2
929:	3	2	2	3	1	4	6	2
937:	2	5	2	1	1	2	2	4
945:	1	4	3	2	4	2	2	2
953:	1	3	4	1	0	2	3	2
961:	2	2	6	7	5	6	2	10
969:	16	10	1	0	2	0	0	1
977:	1	0	1	2	3	2	5	1
985:	2	1	1	1	1	0	0	2
993:	3	2	0	2	1	4	3	9
1001:	12	10	4	1	3	1	3	0
1009:	2	4	4	3	3	3	4	2
1017:	1	1	3	1	0	2	3	2
1025:	1	0	0	2	2	1	2	2
1033:	1	6	2	1	2	2	3	4
1041:	2	1	1	1	2	1	1	1
1049:	1	1	1	3	8	1	2	2
1057:	0	2	1	1	0	2	5	1
1065:	4	1	2	1	3	2	1	2
1073:	3	2	2	2	1	2	2	2
1081:	3	1	1	1	2	2	1	2
1089:	3	4	2	0	1	0	1	2
1097:	1	1	1	2	1	2	0	6
1105:	5	1	1	1	4	1	1	2
1113:	3	5	2	2	2	4	5	12
1121:	6	3	2	3	3	1	4	0
1129:	2	1	1	2	4	1	1	2
1137:	2	1	2	2	0	2	1	0
1145:	2	0	2	1	0	1	2	3
1153:	0	1	3	1	2	3	2	1
1161:	0	0	2	0	3	0	0	0
1169:	3	1	1	1	2	2	0	2
1177:	1	1	1	1	3	1	1	2
1185:	5	4	4	1	6	0	2	0
1193:	2	1	4	5	0	1	1	1
1201:	0	2	2	2	0	4	1	3
1209:	1	2	1	4	0	4	3	2
1217:	1	2	2	1	1	0	2	2
1225:	2	2	3	1	1	2	2	0
1233:	3	2	1	1	3	2	4	0
1241:	1	3	3	4	2	1	1	0
1249:	2	5	5	2	1	1	2	1
1257:	1	3	0	0	4	1	2	1
1265:	1	0	1	1	2	0	3	4
1273:	1	0	1	0	3	2	0	3
1281:	4	1	1	3	2	1	0	2
1289:	2	0	1	1	1	2	0	0
1297:	0	1	1	6	0	0	2	1
1305:	1	2	0	3	0	1	1	0
1313:	3	2	2	0	0	1	2	1
1321:	1	2	3	3	2	2	0	1
1329:	2	2	2	1	3	3	2	1
1337:	2	1	0	5	1	0	2	1
1345:	0	1	0	1	0	1	1	2
1353:	2	0	2	3	0	0	0	0
1361:	1	1	1	2	1	0	0	2
1369:	3	1	1	1	1	3	3	3
1377:	2	3	1	0	1	3	2	2
1385:	1	2	2	2	0	1	1	6

1393:	0	2	1	1	1	2	1	3
1401:	1	0	2	2	2	4	1	2
1409:	0	2	5	1	0	1	2	6
1417:	2	3	2	1	1	2	1	1
1425:	1	3	0	3	1	0	2	2
1433:	1	1	1	1	1	1	0	2
1441:	1	0	0	0	3	3	0	2
1449:	1	3	2	1	0	1	1	0
1457:	1	1	4	9	14	4	2	1
1465:	0	2	0	0	1	1	1	1
1473:	0	1	1	1	0	4	1	2
1481:	0	1	2	1	0	3	3	1
1489:	1	1	2	0	1	0	3	1
1497:	0	3	0	0	0	1	1	0
1505:	1	0	4	2	0	2	1	0
1513:	1	3	1	3	0	0	1	3
1521:	1	1	1	0	3	0	0	1
1529:	0	0	0	1	1	1	1	2
1537:	2	1	1	0	1	2	1	0
1545:	1	0	1	2	0	1	0	1
1553:	1	1	0	5	0	2	0	0
1561:	0	0	0	0	0	3	4	0
1569:	2	1	1	1	1	3	3	3
1577:	0	1	1	1	1	0	1	0
1585:	1	0	0	2	1	1	0	2
1593:	1	1	1	1	0	0	3	2
1601:	1	0	1	0	0	0	1	1
1609:	1	0	0	0	2	0	0	1
1617:	0	1	1	1	4	1	1	0
1625:	1	1	2	1	1	2	3	2
1633:	0	0	2	0	0	0	1	0
1641:	2	1	1	0	1	0	1	0
1649:	2	0	0	2	1	0	2	1
1657:	1	0	0	0	2	2	2	0
1665:	1	1	1	0	1	0	0	0
1673:	0	0	3	2	0	2	2	2
1681:	1	1	0	2	1	1	1	0
1689:	0	0	3	0	1	1	1	0
1697:	1	2	0	1	1	0	1	2
1705:	0	0	1	0	1	2	0	0
1713:	0	0	1	1	1	1	2	0
1721:	0	0	0	0	0	0	0	2
1729:	2	2	1	0	0	0	0	0
1737:	1	0	1	1	2	3	1	2
1745:	1	0	0	1	0	1	0	1
1753:	3	1	1	1	2	0	1	1
1761:	0	2	0	7	3	0	0	0
1769:	1	2	1	1	1	2	2	0
1777:	0	0	0	0	0	0	0	0
1785:	1	0	0	0	0	1	0	0
1793:	0	1	1	1	1	0	0	0
1801:	0	3	0	0	1	0	0	1
1809:	0	1	3	0	0	1	0	3
1817:	0	0	0	1	0	1	1	0
1825:	1	0	1	0	1	1	1	0
1833:	1	2	1	0	0	0	0	0
1841:	1	0	1	1	1	4	0	1
1849:	1	1	1	0	0	0	0	0
1857:	1	2	1	1	0	1	1	2
1865:	1	1	2	2	0	0	0	2

1873:	2	0	1	0	0	0	0	1
1881:	0	0	0	1	0	2	0	1
1889:	0	1	0	2	0	3	0	0
1897:	2	0	1	2	1	0	0	0
1905:	1	0	0	1	0	0	0	1
1913:	0	1	1	0	0	0	1	0
1921:	0	0	2	1	0	2	1	0
1929:	1	0	0	2	0	1	1	1
1937:	1	2	0	1	0	0	1	0
1945:	2	0	0	0	0	1	0	1
1953:	1	0	2	0	0	0	0	1
1961:	0	0	1	0	0	1	1	1
1969:	0	2	1	1	0	0	0	0
1977:	1	2	1	1	1	0	1	0
1985:	1	0	1	1	0	2	2	0
1993:	1	2	0	0	0	1	0	0
2001:	3	2	1	1	1	1	2	2
2009:	1	1	1	0	0	2	0	0
2017:	1	1	1	0	0	0	0	0
2025:	0	1	0	1	1	0	0	0
2033:	1	0	0	0	0	0	1	0
2041:	1	1	0	0	0	1	2	1
2049:	1	0	0	0	1	1	1	0
2057:	0	1	0	0	0	1	1	0
2065:	0	0	1	0	1	1	1	2
2073:	2	1	0	1	1	0	1	0
2081:	0	0	0	0	1	1	0	3
2089:	0	0	1	0	0	0	2	0
2097:	0	0	0	1	2	1	1	2
2105:	0	0	3	4	0	2	0	1
2113:	2	0	0	0	0	0	1	0
2121:	0	0	0	0	0	3	0	1
2129:	1	2	0	0	3	0	1	2
2137:	0	2	1	0	0	1	1	0
2145:	2	1	1	2	1	0	0	2
2153:	0	0	0	1	0	1	0	0
2161:	1	0	0	1	3	2	0	2
2169:	0	0	1	1	0	1	0	1
2177:	0	0	1	1	1	0	1	1
2185:	1	1	0	1	2	0	0	0
2193:	1	1	0	0	0	0	3	2
2201:	0	0	3	3	1	0	3	0
2209:	0	0	0	0	0	0	1	0
2217:	1	0	1	0	0	1	0	0
2225:	1	1	0	1	1	0	0	0
2233:	0	0	1	1	0	1	2	0
2241:	0	1	1	0	0	0	1	1
2249:	0	1	0	1	0	0	0	2
2257:	1	2	1	2	0	1	0	0
2265:	0	0	0	0	0	0	0	1
2273:	0	3	0	1	1	0	1	0
2281:	0	0	0	0	0	0	0	1
2289:	0	0	2	0	4	1	1	0
2297:	0	0	1	1	3	0	0	0
2305:	1	3	0	0	3	1	0	0
2313:	0	0	1	2	3	1	2	0
2321:	0	0	0	0	1	0	0	0
2329:	2	0	1	0	1	0	1	0
2337:	0	1	0	0	0	3	1	2
2345:	0	1	0	2	0	1	0	1

2353:	0	0	1	2	1	1	1	1
2361:	0	0	0	0	2	0	0	0
2369:	0	0	1	1	0	0	0	1
2377:	1	0	0	0	1	0	1	2
2385:	0	0	0	0	0	1	1	0
2393:	0	1	0	0	0	1	0	0
2401:	0	0	0	1	1	1	1	1
2409:	0	0	0	0	0	0	0	0
2417:	0	0	0	0	1	0	0	0
2425:	1	0	2	1	0	0	0	0
2433:	0	0	0	0	0	0	1	0
2441:	0	1	0	0	0	0	1	0
2449:	1	0	1	0	0	0	2	0
2457:	1	2	0	1	1	0	1	0
2465:	1	0	0	0	0	0	2	0
2473:	0	1	0	0	0	0	0	1
2481:	0	0	1	0	0	0	0	1
2489:	0	0	0	0	0	1	0	0
2497:	0	2	0	0	2	0	1	1
2505:	1	0	0	0	0	1	0	0
2513:	0	0	0	0	0	0	0	1
2521:	0	4	1	0	0	1	0	0
2529:	0	0	0	1	3	0	0	0
2537:	0	1	0	1	1	0	0	0
2545:	0	0	0	1	0	0	0	0
2553:	0	0	0	0	1	0	0	0
2561:	0	0	1	0	0	0	0	0
2569:	1	0	1	1	1	1	0	0
2577:	1	0	0	0	0	0	0	0
2585:	0	0	0	0	0	0	0	0
2593:	0	0	0	0	0	0	0	1
2601:	1	0	0	1	0	1	0	1
2609:	0	0	1	2	9	12	9	4
2617:	0	0	0	0	0	0	0	0
2625:	0	0	0	0	0	0	0	0
2633:	0	0	1	0	0	0	0	0
2641:	0	0	0	0	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	0	0	0	0	0	0	1	0
2665:	1	0	0	0	0	0	0	0
2673:	0	0	0	0	0	0	1	0
2681:	2	0	0	0	1	0	0	0
2689:	0	0	0	0	0	0	0	0
2697:	0	0	0	0	1	0	0	0
2705:	0	1	0	0	1	0	0	1
2713:	1	0	0	0	1	0	0	0
2721:	1	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	1	0	0	0	0	1	0
2745:	1	0	0	0	1	0	0	0
2753:	0	0	0	1	0	0	1	0
2761:	0	0	0	0	0	0	0	0
2769:	0	1	0	0	0	1	1	0
2777:	0	1	1	1	1	0	0	0
2785:	1	0	0	0	0	0	0	0
2793:	0	0	0	0	0	0	0	0
2801:	0	0	0	1	0	0	0	0
2809:	0	0	1	0	0	0	0	0
2817:	0	0	0	0	0	1	0	0
2825:	0	0	0	0	0	1	2	0

2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	1	0	0	0	0
2849:	1	0	0	0	0	0	1	0
2857:	0	0	0	0	0	0	0	1
2865:	0	0	0	0	0	0	1	0
2873:	0	0	0	0	1	0	0	0
2881:	1	0	0	0	1	0	0	0
2889:	0	0	1	0	0	0	0	0
2897:	0	1	0	0	0	0	0	0
2905:	1	0	0	0	0	0	0	0
2913:	1	0	0	1	0	0	0	0
2921:	1	1	1	0	0	0	0	0
2929:	1	1	0	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	1	0	1	0
2961:	1	0	1	0	0	0	0	1
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	0	1	1	1	0
2985:	1	0	1	0	1	0	1	0
2993:	0	1	0	0	1	0	1	0
3001:	0	0	0	0	1	0	0	0
3009:	0	0	0	1	0	1	0	0
3017:	0	0	0	0	0	1	1	0
3025:	0	0	0	0	0	0	0	1
3033:	1	1	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	1	0	0	0	0	0	0	0
3057:	0	0	1	1	0	1	0	0
3065:	0	0	0	0	0	0	1	1
3073:	0	0	0	1	0	0	1	0
3081:	0	0	0	1	0	0	0	0
3089:	0	0	0	0	0	0	0	1
3097:	0	0	0	0	0	0	0	0
3105:	1	0	0	0	0	0	0	0
3113:	0	0	1	0	0	0	0	0
3121:	0	1	0	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	1	0	0	0	1	0	0
3145:	0	0	0	1	0	0	0	0
3153:	0	0	0	1	0	0	0	1
3161:	0	0	1	0	0	0	0	0
3169:	0	0	1	0	0	0	0	1
3177:	0	0	0	0	0	0	0	1
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	1	0	0	1	1
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	2	1	0	0	0	0	0	0
3225:	0	0	0	0	1	0	0	0
3233:	0	0	0	1	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	1	0	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	1	0	0	0	0	0	1
3273:	0	0	0	0	0	0	0	0
3281:	0	1	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	1	0	0	0	0	0
3305:	0	0	1	0	0	0	0	1

3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	1	0	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	1	0	0	0	1
3377:	0	0	0	0	1	0	0	0
3385:	0	1	0	1	0	0	0	0
3393:	0	0	0	0	0	0	0	0
3401:	0	0	0	0	0	0	1	0
3409:	0	0	0	0	0	0	1	0
3417:	1	0	0	0	0	0	1	0
3425:	0	0	0	0	1	1	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	1	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	1	0	0	0	0	0	1
3465:	0	0	0	0	0	0	0	0
3473:	1	0	1	0	0	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	1	0	0	0	0	0	1
3505:	0	0	0	0	0	0	0	1
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	1	0	1
3529:	0	0	0	0	1	0	0	0
3537:	0	0	1	0	0	0	0	0
3545:	2	0	1	0	0	2	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	0	0	0	0	0
3569:	1	0	0	0	0	0	0	1
3577:	1	0	0	0	0	1	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	1	1	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	1	0	0
3617:	0	0	0	1	0	0	0	0
3625:	0	0	0	0	0	0	1	0
3633:	0	0	0	0	0	0	0	0
3641:	0	1	1	0	0	0	0	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	1	0
3673:	0	0	0	0	1	0	0	1
3681:	0	0	2	0	0	0	1	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	2	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	1	0	0	0	0
3721:	1	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	1	1
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	1	0	0	1	0
3753:	1	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	2	0	0	0	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	1	0	1	0	0
3801:	0	0	0	0	0	0	0	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	2	0	0	0
3825:	0	0	0	0	0	0	0	1
3833:	0	0	0	0	0	2	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	1	1	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	1	1	0	0	0	0	0
3873:	0	0	1	0	1	0	0	0
3881:	0	0	0	0	1	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	1	0	0	0	0	0	0
3929:	0	0	0	0	0	1	0	0
3937:	0	0	1	0	0	0	0	0
3945:	0	1	0	0	0	0	0	0
3953:	0	0	0	1	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	1	0	0	1	0	0	1
3977:	0	0	1	0	0	1	0	1
3985:	1	0	1	0	0	0	0	1
3993:	0	0	0	0	0	0	0	0
4001:	0	0	0	1	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	1	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	1	0	0
4057:	1	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	1	1
4073:	1	0	0	0	0	0	1	0
4081:	0	0	0	1	0	0	0	0
4089:	0	0	0	0	0	0	0	0

KM 7/9/10

Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

VAX/VMS Peak Search Report Generated 9-JUL-2010 10:42:02.73

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606113_GE1_GAS1002_151311.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-11
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 09:41:43.
Sample ID : 1006061-13 Sample Quantity : 2.62320E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.06 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	52.22	66	509	1.74	51.65	49	8	120.6		
0	63.03*	498	600	1.99	62.47	58	8	19.8		TH-234
0	75.91*	450	832	3.69	75.36	70	10	25.9		AM-243
1	92.75*	1056	437	2.25	92.20	85	17	9.3	1.33E+01	
1	98.33	94	302	2.26	97.79	85	17	76.8		
0	144.51*	98	394	1.94	144.01	138	12	83.6		U-235
										CE-141
0	162.49*	109	234	1.67	162.00	158	9	54.4		U-235
0	185.70*	358	317	1.81	185.23	180	10	22.0		RA-226
0	206.98	119	252	9.05	206.52	201	12	56.6		
1	239.22*	393	135	2.38	238.78	233	15	14.7	1.42E+01	PB-212
1	242.51*	138	112	2.38	242.08	233	15	37.4		
0	294.98*	107	137	1.45	294.59	291	8	42.9		PB-214
0	339.25	115	78	2.16	338.89	335	10	34.6		
0	352.23*	252	118	1.59	351.88	347	10	20.7		PB-214
0	464.29*	30	66	2.29	464.02	460	10	109.0		
0	511.50*	53	55	3.33	511.26	506	10	70.9		
9	578.89	13	26	3.65	578.70	576	11	128.6	2.81E+00	
9	583.56*	107	33	2.10	583.38	576	11	26.5		TL-208
0	609.91*	154	88	1.90	609.74	604	12	29.9		BI-214
0	768.05	24	30	3.71	768.00	763	8	89.0		
0	781.71	17	28	3.72	781.68	777	8	115.8		
0	796.01	16	18	2.99	795.98	793	7	100.7		
0	822.65	24	22	1.50	822.65	818	9	81.9		
3	911.67*	92	23	2.77	911.73	907	11	28.3	8.92E+00	
3	915.25	8	10	2.43	915.31	907	11	155.9		
0	950.61	16	11	2.36	950.69	948	6	82.5		
0	970.67	30	52	1.94	970.77	966	9	98.1		
0	1120.56	52	27	2.29	1120.77	1115	13	48.9		BI-214
0	1148.36	18	14	3.27	1148.59	1142	11	91.3		
0	1157.47	25	10	5.40	1157.71	1153	11	64.2		
0	1338.63	8	0	1.16	1339.00	1336	7	70.7		
0	1377.18	17	2	3.19	1377.58	1373	9	58.5		
0	1384.06	8	6	2.05	1384.47	1382	7	117.2		
0	1461.09*	87	15	2.36	1461.55	1456	12	28.6		K-40
0	1527.94	11	0	1.47	1528.45	1524	9	60.3		

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Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1666.01	19	6	4.73	1666.62	1659	12	70.8		
0	1730.06	9	8	1.39	1730.72	1727	10	134.2		
0	1765.02*	34	5	2.15	1765.70	1761	9	42.4		BI-214
0	1896.73	5	3	2.82	1897.51	1890	9	136.1		
0	1921.06	7	0	1.98	1921.86	1919	6	75.6		
0	2102.71	12	3	1.41	2103.64	2098	10	74.0		
0	2204.20*	6	3	2.98	2205.21	2201	7	140.8		BI-214
0	2614.05*	50	0	3.66	2615.36	2610	11	30.1		TL-208

Summary of Nuclide Activity
Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

Total number of lines in spectrum	43	
Number of unidentified lines	21	
Number of lines tentatively identified by NID	22	51.16%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.636E+00	4.636E+00	1.423E+00	30.69	
TL-208	1.41E+10Y	1.00	1.016E+00	1.016E+00	0.219E+00	21.55	
PB-212	1.41E+10Y	1.00	1.241E+00	1.241E+00	0.228E+00	18.36	
BI-214	1602.00Y	1.00	1.095E+00	1.095E+00	0.254E+00	23.17	
PB-214	1602.00Y	1.00	1.136E+00	1.136E+00	0.238E+00	20.97	
RA-226	1602.00Y	1.00	1.332E+01	1.332E+01	2.457E+01	184.51	
TH-234	4.47E+09Y	1.00	1.402E+01	1.402E+01	0.328E+01	23.43	
U-235	7.04E+08Y	1.00	2.659E+00	2.659E+00	1.535E+00	57.74	
			---	---			
	Total Activity :		3.912E+01	3.912E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	2.22	2.228E-01	4.948E-01	4.354E-01	87.99	
			---	---			
	Total Activity :		2.228E-01	4.948E-01			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	6.975E-01	6.976E-01	2.183E-01	31.29	
			---	---			
	Total Activity :		6.975E-01	6.976E-01			

Grand Total Activity : 4.004E+01 4.031E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-13
Acquisition date : 9-JUL-2010 09:41:43

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	4.636E+00	4.636E+00	30.69	OK
Final Mean for 1 Valid Peaks = 4.636E+00+/- 1.423E+00 (30.69%)							
TL-208	583.14	30.22*	1.026E+00	9.857E-01	9.857E-01	28.88	OK
	860.37	4.48	7.447E-01	----- Line Not Found		-----	Absent
	2614.66	35.85	3.778E-01	1.060E+00	1.060E+00	32.33	OK
Final Mean for 2 Valid Peaks = 1.016E+00+/- 2.189E-01 (21.55%)							
PB-212	238.63	44.60*	2.033E+00	1.241E+00	1.241E+00	18.36	OK
	300.09	3.41	1.740E+00	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 1.241E+00+/- 2.277E-01 (18.36%)							
BI-214	609.31	46.30*	9.893E-01	9.624E-01	9.625E-01	32.09	OK
	1120.29	15.10	6.070E-01	1.633E+00	1.633E+00	49.75	OK
	1764.49	15.80	4.502E-01	1.352E+00	1.352E+00	43.70	OK
	2204.22	4.98	4.030E-01	8.527E-01	8.527E-01	141.26	OK
Final Mean for 4 Valid Peaks = 1.095E+00+/- 2.536E-01 (23.17%)							
PB-214	295.21	19.19	1.761E+00	9.089E-01	9.089E-01	44.50	OK
	351.92	37.19*	1.545E+00	1.256E+00	1.256E+00	23.45	OK
Final Mean for 2 Valid Peaks = 1.136E+00+/- 2.381E-01 (20.97%)							
RA-226	186.21	3.28*	2.345E+00	1.332E+01	1.332E+01	184.51	OK
Final Mean for 1 Valid Peaks = 1.332E+01+/- 2.457E+01 (184.51%)							
TH-234	63.29	3.80*	2.676E+00	1.402E+01	1.402E+01	23.43	OK
Final Mean for 1 Valid Peaks = 1.402E+01+/- 3.284E+00 (23.43%)							
U-235	143.76	10.50*	2.624E+00	1.023E+00	1.023E+00	85.53	<<WM Interf
	163.35	4.70	2.495E+00	2.659E+00	2.659E+00	57.74	OK
	205.31	4.70	2.225E+00	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 2.659E+00+/- 1.535E+00 (57.74%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CE-141	145.44	48.40*	2.614E+00	2.228E-01	4.948E-01	87.99	OK
Final Mean for 1 Valid Peaks = 4.948E-01+/- 4.354E-01 (87.99%)							

Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
AM-243	74.67	66.00*	2.800E+00	6.975E-01	6.976E-01	31.29	OK

Final Mean for 1 Valid Peaks = 6.976E-01+/- 2.183E-01 (31.29%)

Flag: "*" = Keyline

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	4.636E+00	1.423E+00	1.122E+00	1.175E-01	4.131
CE-141	4.948E-01	4.354E-01	3.620E-01	9.853E-02	1.367
TL-208	1.016E+00	2.189E-01	3.145E-01	3.417E-02	3.230
PB-212	1.241E+00	2.277E-01	1.785E-01	1.839E-02	6.951
BI-214	1.095E+00	2.536E-01	2.244E-01	2.472E-02	4.878
PB-214	1.136E+00	2.381E-01	1.951E-01	1.993E-02	5.821
RA-226	1.332E+01	2.457E+01	2.637E+00	4.830E+00	5.051
TH-234	1.402E+01	3.284E+00	3.069E+00	3.624E-01	4.567
U-235	2.659E+00	1.535E+00	7.477E-01	1.326E-01	3.556
AM-243	6.976E-01	2.183E-01	1.651E-01	2.816E-02	4.225

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	1.137E-01		7.937E-01	1.379E+00	1.386E-01	0.082
NA-22	-2.018E-02		6.195E-02	1.115E-01	1.060E-02	-0.181
AL-26	3.431E-02		4.749E-02	1.094E-01	1.059E-02	0.314
TI-44	1.630E-02		9.967E-02	1.197E-01	1.666E-02	0.136
SC-46	-2.242E-02		7.360E-02	1.330E-01	1.100E-02	-0.169
V-48	6.294E-02		2.760E-01	5.359E-01	4.410E-02	0.117
CR-51	-4.310E-01		1.258E+00	2.081E+00	2.334E-01	-0.207
MN-54	3.228E-02		7.019E-02	1.346E-01	1.243E-02	0.240
CO-56	-7.483E-02		8.665E-02	1.443E-01	1.304E-02	-0.519
CO-57	-5.145E-02		5.984E-02	9.671E-02	9.307E-03	-0.532
CO-58	-2.319E-02		8.020E-02	1.397E-01	1.346E-02	-0.166
FE-59	2.176E-01		1.924E-01	4.078E-01	3.669E-02	0.534
CO-60	1.286E-02		6.078E-02	1.178E-01	9.677E-03	0.109
ZN-65	1.459E-01		1.320E-01	2.661E-01	2.200E-02	0.548
SE-75	-3.179E-02		1.028E-01	1.703E-01	1.881E-02	-0.187
RB-82	-1.255E+00		1.827E+00	2.160E+00	2.182E-01	-0.581
RB-83	2.840E-02		1.912E-01	2.945E-01	4.917E-02	0.096
KR-85	4.652E+01		1.861E+01	3.327E+01	3.451E+00	1.398
SR-85	3.014E-01		1.206E-01	2.156E-01	2.236E-02	1.398
Y-88	2.618E-02		6.096E-02	1.337E-01	1.284E-02	0.196
NB-93M	-9.025E+01		4.546E+01	6.991E+00	3.479E+00	-12.908
NB-94	1.377E-02		5.905E-02	1.125E-01	9.681E-03	0.122
NB-95	1.645E-01		1.426E-01	2.643E-01	2.707E-02	0.622
ZR-95	9.122E-02		1.665E-01	3.047E-01	3.378E-02	0.299
RU-103	-4.201E-02		1.130E-01	1.860E-01	2.826E-02	-0.226
RU-106	4.638E-01		6.016E-01	1.117E+00	1.683E-01	0.415
AG-108M	-3.787E-02		7.067E-02	1.230E-01	1.319E-02	-0.308
CD-109	1.896E+00		2.282E+00	3.449E+00	8.326E-01	0.550
AG-110M	2.983E-02		6.647E-02	1.272E-01	1.428E-02	0.235
SN-113	6.767E-02		9.803E-02	1.759E-01	1.654E-02	0.385
TE123M	-3.026E-02		7.672E-02	1.124E-01	9.780E-03	-0.269
SB-124	-8.678E-02		1.168E-01	1.718E-01	1.887E-02	-0.505
I-125	-1.892E-01		1.722E+00	2.928E+00	4.290E-01	-0.065

Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SB-125	-1.763E-01		1.758E-01	2.698E-01	2.619E-02	-0.654
SB-126	-6.480E-01		9.555E-01	1.638E+00	1.761E-01	-0.396
SN-126	1.869E-01		2.171E-01	3.285E-01	7.616E-02	0.569
I-129	-9.071E-02		1.608E-01	2.669E-01	4.802E-02	-0.340
I-131	-2.002E+00		1.487E+00	2.204E+00	2.185E-01	-0.908
BA-133	2.457E-01		1.109E-01	1.892E-01	2.692E-02	1.299
CS-134	-6.552E-03		8.189E-02	1.300E-01	1.431E-02	-0.050
CS-135	8.410E-02		2.995E-01	5.164E-01	5.729E-02	0.163
CS-136	3.263E-02		5.042E-01	9.603E-01	8.219E-02	0.034
CS-137	4.177E-03		6.870E-02	1.266E-01	1.426E-02	0.033
LA-138	1.956E-02		6.761E-02	1.425E-01	1.464E-02	0.137
CE-139	5.440E-02		8.430E-02	1.314E-01	1.120E-02	0.414
BA-140	2.310E+00		1.707E+00	3.022E+00	1.018E+00	0.764
LA-140	4.093E-04		4.025E-01	7.927E-01	8.036E-02	0.001
CE-144	-4.535E-01		5.466E-01	7.780E-01	7.257E-02	-0.583
PM-144	-2.759E-02		7.045E-02	1.265E-01	1.390E-02	-0.218
PM-145	-1.437E-01		3.402E-01	5.475E-01	3.616E-01	-0.263
PM-146	1.045E-01		1.322E-01	2.328E-01	2.287E-02	0.449
ND-147	-3.378E+00		4.321E+00	6.753E+00	7.096E-01	-0.500
EU-152	1.177E-01		4.088E-01	8.108E-01	9.948E-02	0.145
GD-153	-4.505E-02		2.684E-01	4.009E-01	6.904E-02	-0.112
EU-154	-5.838E-02		1.706E-01	3.065E-01	2.911E-02	-0.190
EU-155	3.950E-01		2.699E-01	4.025E-01	9.121E-02	0.981
EU-156	-8.641E-01		3.078E+00	5.120E+00	1.189E+00	-0.169
HO-166M	-3.545E-02		1.058E-01	1.888E-01	2.046E-02	-0.188
HF-172	1.896E-01		4.266E-01	7.343E-01	6.989E-02	0.258
LU-172	-3.580E+00		4.867E+00	8.198E+00	6.779E-01	-0.437
LU-173	-7.742E-02		2.469E-01	4.088E-01	4.578E-02	-0.189
HF-175	5.686E-02		9.631E-02	1.288E-01	1.340E-02	0.441
LU-176	-8.589E-03		5.463E-02	9.143E-02	1.011E-02	-0.094
TA-182	8.870E-01	+	4.413E-01	6.422E-01	5.303E-02	1.381
IR-192	-3.658E-02		1.562E-01	2.311E-01	2.302E-02	-0.158
HG-203	1.328E-02		1.146E-01	1.947E-01	2.255E-02	0.068
BI-207	-2.173E-02		5.840E-02	9.095E-02	9.805E-03	-0.239
BI-210M	4.432E-02		9.932E-02	1.737E-01	1.898E-02	0.255
PB-210	1.330E+00		1.788E+00	2.906E+00	3.359E-01	0.458
PB-211	5.886E-01		1.814E+00	3.165E+00	2.944E-01	0.186
BI-212	6.650E-01		5.773E-01	1.138E+00	1.216E-01	0.584
RN-219	3.058E-01		7.774E-01	1.368E+00	1.268E-01	0.223
RA-223	-3.648E-01		1.331E+00	2.209E+00	2.382E-01	-0.165
RA-224	1.593E+01		2.626E+00	4.121E+00	4.272E-01	3.864
RA-225	-1.364E+00		1.272E+00	2.049E+00	2.673E-01	-0.666
TH-227	3.301E+00		7.127E-01	1.179E+00	1.206E-01	2.800
AC-228	1.330E+00	+	3.947E-01	7.549E-01	6.134E-02	1.761
TH-230	5.640E+00		2.546E+01	3.067E+01	4.242E+00	0.184
PA-231	4.857E-01		2.493E+00	3.820E+00	4.246E-01	0.127
TH-231	-3.448E+01		7.961E+00	1.475E+00	3.272E-01	-23.381
PA-233	8.382E-02		3.283E-01	5.667E-01	1.330E-01	0.148

Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234	2.632E-02		2.314E-01	3.925E-01	3.683E-02	0.067
PA-234M	1.022E+01		8.480E+00	1.734E+01	1.430E+00	0.589
NP-237	9.550E-01		6.524E-01	9.731E-01	2.205E-01	0.981
AM-241	4.791E-01		2.744E-01	3.568E-01	3.588E-02	1.343
CM-243	1.499E-01		3.539E-01	6.146E-01	6.974E-02	0.244

Sample ID : 1006061-13 Acquisition date : 9-JUL-2010 09:41:43

Total number of lines in spectrum	43	
Number of unidentified lines	21	
Number of lines tentatively identified by NID	22	51.16%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.636E+00	4.636E+00	1.423E+00	30.69	
TL-208	1.41E+10Y	1.00	1.016E+00	1.016E+00	0.219E+00	21.55	
PB-212	1.41E+10Y	1.00	1.241E+00	1.241E+00	0.228E+00	18.36	
BI-214	1602.00Y	1.00	1.095E+00	1.095E+00	0.254E+00	23.17	
PB-214	1602.00Y	1.00	1.136E+00	1.136E+00	0.238E+00	20.97	
RA-226	1602.00Y	1.00	1.332E+01	1.332E+01	2.457E+01	184.51	
TH-234	4.47E+09Y	1.00	1.402E+01	1.402E+01	0.328E+01	23.43	
U-235	7.04E+08Y	1.00	2.659E+00	2.659E+00	1.535E+00	57.74	
			---	---			
	Total Activity :		3.912E+01	3.912E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	2.22	2.228E-01	4.948E-01	4.354E-01	87.99	
			---	---			
	Total Activity :		2.228E-01	4.948E-01			

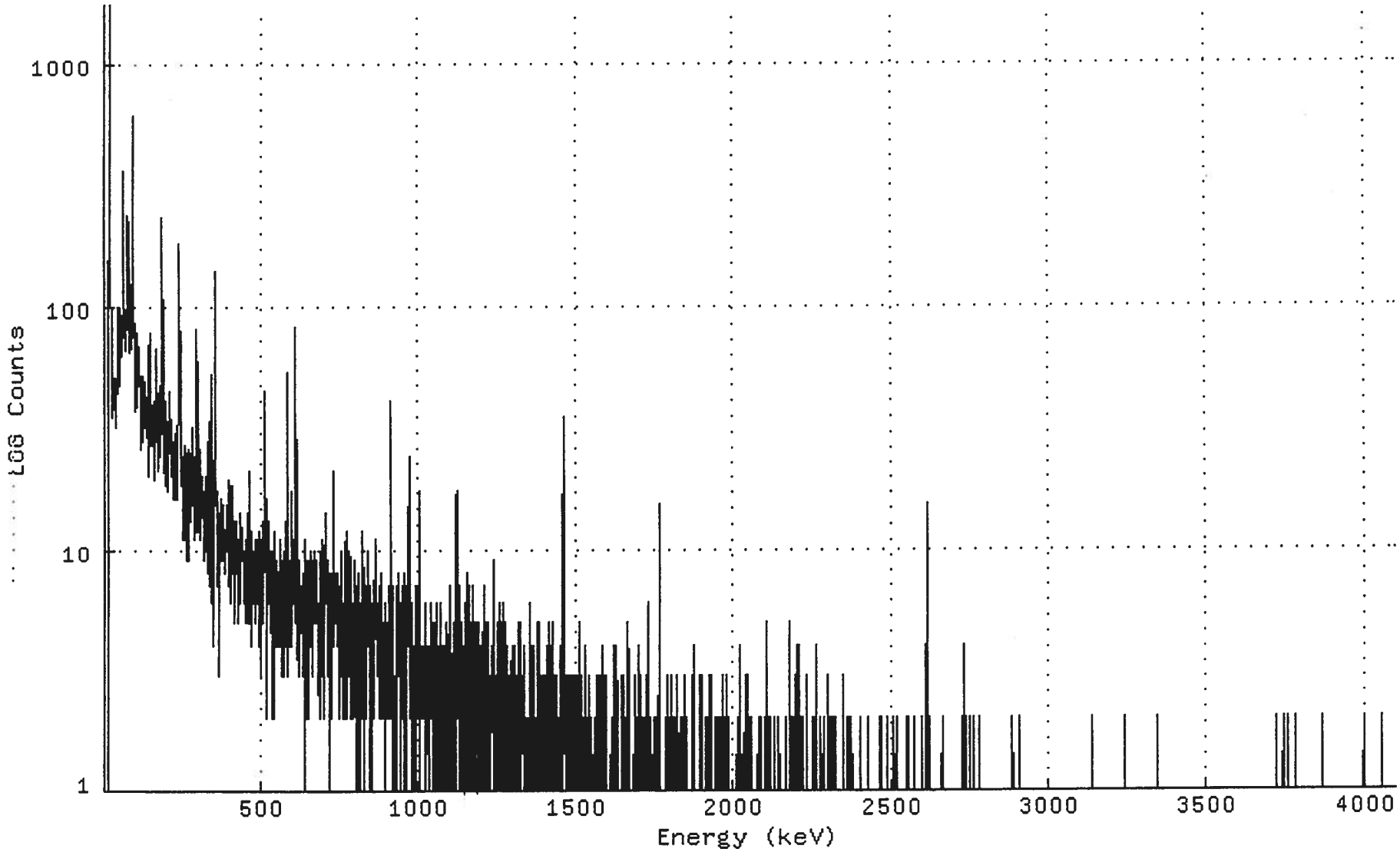
Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	6.975E-01	6.976E-01	2.183E-01	31.29	
			---	---			
	Total Activity :		6.975E-01	6.976E-01			

Grand Total Activity : 4.004E+01 4.031E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606113_GE1_GAS1002_151311.CNF;1
Title :
Sample Title: S-11
Start Time: 9-JUL-2010 09:41: Sample Time: 2-JUN-2010 00:00: Energy Offset: 6.08450E-01
Real Time : 0 01:00:01.06 Sample ID : 1006061-13 Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606113_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	0	117
17:	212	218	264	1781	324	175	54	49
25:	50	63	49	35	39	50	41	46
33:	44	44	50	44	32	49	38	46
41:	52	44	53	43	79	98	53	47
49:	69	64	57	97	87	74	65	62
57:	74	74	75	84	96	340	357	114
65:	66	86	96	86	78	89	81	94
73:	117	185	130	238	210	88	74	92
81:	75	65	118	120	67	121	123	94
89:	120	99	237	612	327	111	87	64
97:	56	85	59	42	37	39	45	41
105:	51	77	44	48	50	56	54	68
113:	54	42	45	51	42	44	26	38
121:	28	48	29	44	51	36	32	47
129:	48	35	47	32	29	34	39	31
137:	42	20	34	45	36	44	64	77
145:	36	27	33	45	42	27	37	36
153:	39	34	33	24	24	19	40	40
161:	33	42	67	44	35	28	32	27
169:	31	34	27	43	21	34	36	24
177:	33	47	35	30	30	48	79	35
185:	176	231	49	32	26	36	28	23
193:	18	40	28	25	31	33	32	24
201:	17	33	32	26	43	44	32	25
209:	29	33	34	23	20	29	23	25
217:	20	25	16	16	28	27	28	26
225:	30	22	16	24	19	16	24	27
233:	19	26	40	44	43	178	184	50
241:	53	79	24	20	23	23	14	15
249:	22	20	11	24	14	27	20	14
257:	11	23	21	10	9	18	25	20
265:	18	14	24	9	19	26	24	15
273:	14	13	17	14	17	32	22	18
281:	16	15	20	24	17	11	18	19
289:	16	12	19	19	29	29	80	43
297:	12	19	18	25	16	11	14	26
305:	15	12	16	16	16	15	15	17
313:	20	9	14	17	15	10	14	10
321:	13	16	17	20	11	15	16	28
329:	14	17	8	12	18	14	7	17
337:	22	52	37	21	6	11	12	8
345:	4	12	11	14	19	29	66	139
353:	51	21	15	17	7	10	13	16
361:	12	10	9	8	3	8	9	14
369:	13	14	9	14	16	11	11	9
377:	12	11	9	15	10	11	11	9
385:	8	10	12	10	15	14	11	11
393:	19	7	7	7	15	7	12	10
401:	6	12	11	18	12	11	11	8
409:	12	18	5	9	13	9	10	7
417:	9	12	11	13	10	8	11	11
425:	5	7	7	10	7	8	6	10

433:	12	14	11	11	10	9	10	11
441:	9	9	6	9	10	8	6	5
449:	5	6	11	9	8	10	12	11
457:	6	14	5	10	6	17	21	14
465:	5	5	12	5	4	8	5	8
473:	7	6	8	10	9	9	6	8
481:	8	5	11	10	8	11	8	6
489:	7	5	12	4	7	4	5	9
497:	3	7	11	11	7	11	10	13
505:	8	5	7	9	17	44	42	37
513:	20	13	2	7	10	7	11	8
521:	8	7	13	6	9	10	8	7
529:	7	8	5	4	2	8	10	7
537:	7	8	12	7	2	5	5	4
545:	5	9	4	5	8	7	4	6
553:	5	8	6	6	11	4	4	7
561:	6	11	5	9	9	3	7	4
569:	6	10	3	6	7	6	4	6
577:	7	4	13	8	7	21	53	47
585:	10	3	9	7	7	6	4	5
593:	7	6	12	4	17	11	6	9
601:	7	9	11	7	5	13	15	19
609:	82	62	13	6	12	11	8	4
617:	3	6	9	8	5	8	5	6
625:	6	7	5	5	4	5	7	8
633:	6	3	11	5	1	4	4	9
641:	6	2	9	8	4	3	7	4
649:	9	5	2	5	5	5	6	9
657:	4	10	7	3	9	6	5	7
665:	9	6	7	6	5	10	7	5
673:	9	7	8	5	6	5	4	6
681:	4	6	3	2	7	6	10	8
689:	3	3	7	11	9	11	7	6
697:	6	5	10	2	8	14	6	6
705:	8	7	7	5	9	3	3	9
713:	3	5	4	4	1	7	8	5
721:	8	7	2	8	7	5	12	21
729:	7	4	4	5	7	7	5	8
737:	5	6	4	5	4	5	8	8
745:	3	5	7	2	7	4	3	5
753:	10	5	8	7	4	6	5	2
761:	4	3	3	2	7	8	10	10
769:	12	2	7	9	4	4	4	4
777:	4	3	4	10	9	5	8	2
785:	4	8	3	2	2	2	6	4
793:	3	8	6	9	4	4	0	4
801:	7	3	6	6	1	4	8	4
809:	4	3	3	1	5	3	6	4
817:	2	4	5	4	4	5	12	6
825:	5	1	3	3	3	3	2	4
833:	7	5	5	10	7	4	7	9
841:	4	6	3	4	1	7	4	4
849:	6	1	6	1	6	5	4	2
857:	7	6	5	11	9	7	7	5
865:	6	3	6	3	3	3	6	3
873:	5	7	6	2	4	2	2	3
881:	8	3	5	4	2	4	2	5
889:	3	6	1	1	2	6	2	5
897:	2	3	3	3	3	7	2	7
905:	4	5	3	4	7	12	35	40

913:	10	2	7	2	1	3	6	2
921:	3	2	3	2	3	1	4	7
929:	3	3	1	5	4	8	3	5
937:	6	3	3	6	2	0	5	2
945:	7	4	2	4	3	6	8	5
953:	1	1	4	3	2	5	7	5
961:	1	6	7	4	13	6	5	9
969:	24	20	7	6	3	2	5	2
977:	2	6	1	6	1	3	4	3
985:	1	1	7	5	2	2	1	5
993:	3	7	3	3	2	5	4	8
1001:	16	17	1	2	2	2	3	2
1009:	4	3	4	4	2	4	3	3
1017:	2	5	2	3	6	1	3	2
1025:	4	3	2	2	2	1	4	2
1033:	1	3	2	4	6	4	3	2
1041:	4	1	5	3	5	4	2	1
1049:	1	5	1	3	0	6	1	2
1057:	1	3	3	1	3	4	3	2
1065:	1	6	5	1	1	4	5	2
1073:	1	4	4	4	1	2	2	1
1081:	4	0	0	2	4	4	1	5
1089:	5	4	2	2	3	1	1	3
1097:	5	4	1	4	4	7	2	1
1105:	3	3	1	2	3	1	0	5
1113:	3	1	0	4	4	6	4	16
1121:	17	8	2	4	2	5	7	0
1129:	2	7	2	3	5	4	4	1
1137:	2	3	4	1	0	2	2	2
1145:	2	2	1	6	6	5	4	0
1153:	3	3	3	8	3	2	1	7
1161:	3	2	0	1	0	1	5	3
1169:	2	7	0	3	4	2	0	2
1177:	5	4	3	1	0	4	2	5
1185:	1	2	2	1	3	0	5	2
1193:	1	3	3	3	4	2	1	0
1201:	2	1	3	1	3	7	1	4
1209:	2	3	7	1	2	3	3	5
1217:	0	0	5	1	3	1	2	1
1225:	1	0	3	1	0	3	4	2
1233:	3	2	4	2	4	4	9	6
1241:	1	2	1	3	0	1	2	1
1249:	5	4	3	3	3	3	1	4
1257:	0	6	4	5	3	3	2	3
1265:	1	4	1	6	2	2	0	2
1273:	0	1	5	2	2	3	2	1
1281:	3	4	1	4	1	0	2	2
1289:	3	3	2	1	3	2	1	3
1297:	4	3	2	3	2	1	3	2
1305:	4	0	0	2	0	2	3	1
1313:	0	1	1	3	1	5	3	2
1321:	0	1	5	1	1	2	3	2
1329:	3	2	3	2	1	3	0	0
1337:	0	4	1	2	1	0	0	0
1345:	2	1	1	2	2	2	1	1
1353:	4	6	3	3	3	2	0	4
1361:	0	3	3	3	4	0	1	0
1369:	0	0	2	0	0	2	1	2
1377:	3	4	5	2	0	1	2	4
1385:	5	1	1	0	2	1	3	1

1393:	1	1	2	2	3	1	2	1
1401:	2	1	1	1	3	1	0	4
1409:	4	1	3	1	2	1	5	1
1417:	3	4	1	4	1	1	1	1
1425:	5	1	1	0	1	2	0	3
1433:	0	1	2	1	2	1	1	1
1441:	3	0	0	1	1	1	2	2
1449:	2	1	1	2	4	0	1	1
1457:	1	2	8	8	35	31	16	3
1465:	2	2	0	3	2	1	3	0
1473:	1	0	3	1	1	1	0	0
1481:	0	1	3	0	1	3	2	0
1489:	1	1	0	3	1	2	1	2
1497:	1	2	2	3	1	0	2	1
1505:	1	1	2	3	2	2	2	1
1513:	1	5	1	2	1	3	3	0
1521:	0	2	0	0	1	1	0	4
1529:	2	1	2	0	0	0	0	0
1537:	2	1	0	3	3	0	2	2
1545:	1	2	0	1	0	2	2	0
1553:	1	0	1	1	0	1	0	2
1561:	0	2	1	0	0	1	1	1
1569:	3	0	1	1	3	2	1	3
1577:	0	1	2	0	1	0	3	4
1585:	1	1	1	1	3	2	2	0
1593:	1	2	0	3	2	0	1	0
1601:	1	1	1	0	0	1	0	0
1609:	1	0	0	2	0	0	1	1
1617:	1	0	0	2	1	4	2	0
1625:	3	0	1	0	4	2	1	0
1633:	0	1	1	0	0	0	0	1
1641:	1	1	1	3	0	1	3	1
1649:	2	0	2	3	1	0	0	0
1657:	0	2	0	1	2	1	1	2
1665:	4	5	3	3	3	0	0	1
1673:	0	0	1	0	0	0	1	0
1681:	0	1	1	0	2	1	1	2
1689:	3	2	0	0	2	2	2	0
1697:	1	0	1	1	4	0	3	0
1705:	1	1	2	1	1	0	2	0
1713:	0	0	0	1	0	1	1	2
1721:	0	0	1	3	0	0	1	0
1729:	3	3	6	1	1	1	1	0
1737:	2	1	2	0	0	0	0	1
1745:	1	0	2	1	0	0	0	1
1753:	2	1	0	1	1	0	0	1
1761:	0	1	2	3	12	15	5	2
1769:	0	1	1	0	0	0	0	1
1777:	1	1	0	0	0	1	0	2
1785:	0	0	2	2	3	0	1	0
1793:	0	1	0	2	0	1	1	0
1801:	0	0	3	1	2	0	2	2
1809:	1	1	1	2	0	0	0	0
1817:	0	0	0	1	2	0	0	3
1825:	1	1	1	0	1	1	0	0
1833:	2	0	0	2	0	2	2	0
1841:	2	0	2	1	0	0	3	0
1849:	2	1	2	0	1	0	1	0
1857:	1	1	0	1	1	1	1	0
1865:	1	1	0	0	3	0	2	1

1873:	0	0	4	0	0	0	0	1
1881:	1	0	1	1	1	0	0	0
1889:	1	0	0	0	0	2	2	3
1897:	1	0	0	3	0	0	0	0
1905:	0	0	0	1	0	1	1	0
1913:	2	0	0	0	2	0	0	1
1921:	1	3	2	0	0	0	2	1
1929:	1	0	1	3	0	0	1	1
1937:	0	0	0	0	0	2	0	0
1945:	0	1	0	0	2	1	0	0
1953:	1	1	1	2	0	0	0	1
1961:	1	2	1	0	1	0	0	0
1969:	3	0	0	1	0	2	0	0
1977:	3	0	2	0	0	2	0	1
1985:	0	2	0	1	0	0	1	1
1993:	0	1	1	0	1	1	1	0
2001:	1	1	0	0	0	1	1	1
2009:	1	0	0	1	2	0	0	1
2017:	1	1	4	0	1	1	0	2
2025:	0	1	1	0	1	1	1	0
2033:	1	0	1	0	3	0	2	0
2041:	0	0	0	3	0	1	1	0
2049:	1	2	0	1	1	1	0	2
2057:	2	0	0	0	1	1	0	1
2065:	0	0	0	0	0	1	1	1
2073:	1	0	0	1	0	1	2	0
2081:	0	2	0	1	2	0	0	1
2089:	0	0	0	1	0	1	1	1
2097:	0	1	1	0	2	1	2	2
2105:	5	1	0	0	0	0	2	0
2113:	0	0	0	0	0	0	2	2
2121:	1	1	0	1	1	1	1	0
2129:	0	2	0	0	1	1	0	1
2137:	1	0	0	0	1	0	0	1
2145:	2	0	0	0	0	0	0	0
2153:	1	0	1	0	0	0	1	0
2161:	0	1	0	0	2	2	0	0
2169:	1	1	0	1	1	0	0	0
2177:	5	0	1	1	1	0	1	1
2185:	0	1	2	0	2	0	0	0
2193:	2	0	3	2	0	2	0	0
2201:	0	0	1	4	2	4	0	2
2209:	0	0	0	4	0	1	0	0
2217:	1	1	1	2	0	0	0	0
2225:	0	0	0	0	1	0	0	0
2233:	3	1	1	1	0	1	0	1
2241:	0	1	0	1	0	1	0	1
2249:	1	0	0	0	0	2	1	0
2257:	2	1	0	0	0	4	0	1
2265:	0	0	1	0	0	0	0	1
2273:	0	1	1	0	2	1	1	1
2281:	1	1	0	0	1	2	0	1
2289:	2	1	0	1	1	0	0	1
2297:	0	0	3	0	0	2	1	0
2305:	1	2	2	0	1	0	0	0
2313:	1	2	1	1	0	1	0	2
2321:	0	0	2	0	1	0	0	1
2329:	1	0	0	0	0	0	1	0
2337:	1	0	1	0	0	1	0	1
2345:	1	0	0	0	1	3	1	0

2353:	0	1	0	0	1	0	0	1
2361:	2	1	0	1	0	1	2	1
2369:	0	1	1	1	0	2	1	2
2377:	1	1	0	0	0	0	0	0
2385:	0	0	0	0	1	0	0	0
2393:	0	0	0	0	1	1	0	0
2401:	0	0	0	2	1	0	0	0
2409:	0	1	0	1	0	0	1	0
2417:	0	1	0	1	0	1	1	0
2425:	0	0	1	2	0	0	0	0
2433:	1	1	0	0	0	0	0	0
2441:	1	0	0	1	0	1	0	1
2449:	0	1	0	0	0	0	1	0
2457:	0	1	0	0	0	0	0	2
2465:	0	0	0	0	2	0	0	0
2473:	0	1	1	0	0	1	0	1
2481:	0	0	1	0	0	0	2	1
2489:	0	0	0	0	0	1	0	0
2497:	1	0	0	0	0	0	0	0
2505:	2	0	1	1	0	0	0	0
2513:	1	0	0	2	0	0	0	1
2521:	0	0	0	0	1	1	0	1
2529:	0	0	0	1	0	0	1	0
2537:	0	1	0	0	0	0	0	1
2545:	0	0	0	1	0	0	1	2
2553:	1	2	0	1	0	0	0	0
2561:	0	1	0	1	0	1	0	1
2569:	0	0	0	1	2	0	0	0
2577:	0	0	1	0	0	0	0	1
2585:	0	0	1	0	0	0	0	0
2593:	0	0	0	0	2	0	0	1
2601:	0	0	0	0	1	0	0	0
2609:	0	0	4	0	1	11	11	15
2617:	10	2	2	0	0	1	0	1
2625:	0	0	1	0	0	0	0	0
2633:	0	0	0	1	0	0	0	0
2641:	0	0	0	1	0	0	0	0
2649:	1	1	0	0	0	0	1	0
2657:	1	0	0	0	0	2	0	1
2665:	1	0	0	0	0	1	1	0
2673:	1	1	0	0	0	0	0	0
2681:	0	0	0	0	0	0	0	0
2689:	0	0	0	1	0	0	0	1
2697:	0	0	1	0	0	0	0	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	0	0	0	1	0
2721:	1	1	1	0	0	0	0	4
2729:	0	1	0	0	0	1	1	2
2737:	0	1	0	0	0	0	0	1
2745:	0	1	0	0	0	1	2	1
2753:	0	0	0	0	0	0	1	2
2761:	0	1	0	0	0	1	0	0
2769:	0	0	0	1	0	0	0	0
2777:	0	2	0	0	0	0	0	0
2785:	0	0	0	1	0	1	0	0
2793:	0	1	1	0	0	0	0	0
2801:	0	0	0	0	0	0	0	0
2809:	1	1	0	0	0	0	0	1
2817:	0	0	0	0	0	1	0	1
2825:	0	1	1	0	1	0	0	1

2833:	0	1	1	0	0	0	0	1
2841:	1	0	0	0	0	0	0	0
2849:	0	0	0	1	0	1	0	0
2857:	0	0	0	1	0	0	0	0
2865:	0	0	0	0	0	0	0	0
2873:	0	0	0	0	0	0	0	0
2881:	0	0	0	1	2	0	0	0
2889:	1	0	0	0	0	0	0	0
2897:	0	0	1	0	0	0	0	0
2905:	2	0	0	0	0	0	1	0
2913:	0	0	1	0	0	1	0	0
2921:	0	0	0	0	1	0	0	0
2929:	1	1	0	1	0	0	0	0
2937:	0	0	0	1	1	0	0	0
2945:	0	0	0	0	0	0	0	0
2953:	1	0	0	0	0	0	0	0
2961:	0	0	0	0	0	0	0	1
2969:	0	0	0	0	1	0	0	0
2977:	0	0	0	0	0	0	0	0
2985:	0	0	1	0	1	0	0	1
2993:	1	1	0	0	1	0	0	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	0	0	1	0
3017:	0	0	0	0	0	0	0	0
3025:	0	0	0	0	0	0	0	1
3033:	0	1	0	0	1	0	0	0
3041:	0	1	1	0	0	0	0	1
3049:	0	0	0	0	0	0	0	0
3057:	0	1	0	0	0	0	0	0
3065:	0	1	0	0	0	0	1	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	1	0	0	0	1	0
3097:	0	0	0	0	0	1	1	1
3105:	0	0	0	0	0	0	0	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	0	0	0	0	0	1
3129:	0	0	0	0	0	0	0	0
3137:	0	2	0	0	0	0	0	1
3145:	0	0	0	0	0	1	0	0
3153:	0	0	0	0	0	0	0	1
3161:	0	0	0	1	1	0	0	0
3169:	1	0	0	0	1	0	0	1
3177:	0	1	0	0	0	0	0	0
3185:	0	0	1	0	0	0	1	1
3193:	0	0	0	0	0	0	0	1
3201:	0	0	1	0	0	0	0	0
3209:	0	0	0	0	0	0	1	0
3217:	0	0	0	0	0	0	0	1
3225:	1	0	0	0	0	0	0	1
3233:	1	0	0	0	0	0	2	0
3241:	0	0	0	0	0	1	0	0
3249:	0	0	1	1	0	0	0	0
3257:	1	0	0	0	0	0	0	0
3265:	1	0	0	0	0	0	0	0
3273:	0	0	1	1	0	0	0	0
3281:	1	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	1
3297:	0	0	0	0	1	1	1	0
3305:	0	0	0	0	0	1	1	1

3313:	0	0	0	1	1	0	0	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	1	0	0	0	0	0
3337:	1	1	0	1	0	0	0	0
3345:	2	0	1	0	0	0	0	0
3353:	0	0	0	0	0	1	0	0
3361:	0	0	1	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	1	0
3385:	1	0	0	0	0	0	0	0
3393:	0	0	0	1	0	0	0	0
3401:	0	0	0	1	0	0	1	0
3409:	0	0	0	0	0	0	0	0
3417:	0	1	0	0	0	0	0	0
3425:	0	0	0	0	0	1	0	0
3433:	0	0	1	0	0	0	0	0
3441:	0	0	1	0	1	0	0	0
3449:	1	0	0	1	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	1	0	0	0	0	0
3473:	0	0	0	0	1	0	0	0
3481:	0	0	0	0	0	0	0	0
3489:	1	0	0	0	0	1	0	1
3497:	0	0	0	0	1	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	0	0	0	0	1	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	0	0	0	0	0	1	0
3545:	0	0	0	0	1	0	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	1	0	1	0	0	0	0
3569:	0	0	1	0	0	0	1	0
3577:	0	0	0	0	0	0	1	0
3585:	0	1	0	0	0	0	0	0
3593:	0	0	1	0	0	0	0	0
3601:	0	0	0	1	0	0	0	0
3609:	0	0	0	1	0	0	0	0
3617:	1	0	0	0	1	0	0	0
3625:	1	0	0	0	0	0	0	0
3633:	0	0	0	0	0	1	0	0
3641:	0	0	0	0	0	0	1	0
3649:	0	0	0	1	0	0	0	0
3657:	0	1	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	1	0	1	0	0	0	0
3689:	0	0	0	0	1	0	0	0
3697:	1	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	1
3713:	0	0	0	0	0	2	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	1	0	0	0	0	0	1
3737:	0	0	0	0	0	2	0	0
3745:	0	1	0	0	0	0	0	0
3753:	0	0	0	2	0	0	0	0
3761:	0	0	0	0	0	0	1	0
3769:	0	0	0	0	0	0	0	0
3777:	0	0	1	2	1	0	0	0
3785:	0	0	0	1	0	0	0	1

3793:	0	1	0	0	0	0	0	0
3801:	0	0	1	0	0	1	0	0
3809:	0	1	0	0	0	0	1	0
3817:	0	0	1	0	0	0	0	0
3825:	0	0	0	0	0	0	1	0
3833:	0	0	1	0	0	0	0	0
3841:	1	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	1
3857:	0	0	0	0	1	0	0	0
3865:	0	0	2	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	1	0	0	0	0
3889:	0	0	0	0	1	0	0	0
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	1	0	0	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	1	0
3961:	0	1	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	1	0	0	0	0
3993:	0	0	0	2	0	0	0	0
4001:	0	1	1	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	1	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	1	0	0	0
4049:	0	0	0	0	0	0	2	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	1	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	1	0	0

KMI 7-9-10

Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

VAX/VMS Peak Search Report Generated 9-JUL-2010 10:42:29.42

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606114_GE4_GAS1002_151312.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-12A
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 09:42:10.
Sample ID : 1006061-14 Sample Quantity : 3.79840E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.89 0.1%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.87*	104	530	2.26	46.87	44	6	73.7		PB-210
0	63.61*	230	1594	3.25	63.60	57	13	73.1		TH-234
0	76.58*	1419	1564	3.92	76.57	70	13	12.7		
2	87.42	169	944	2.32	87.40	83	10	62.9	2.89E+00	NP-237
										SN-126
										CD-109
0	93.70*	110	683	2.15	93.68	92	6	80.5		
0	129.85	69	562	1.34	129.81	126	8	121.0		
0	186.49*	203	632	1.97	186.43	180	11	50.4		RA-226
0	209.23	93	540	1.83	209.15	204	10	96.4		
4	238.98*	626	308	2.23	238.89	233	13	12.7	2.86E+00	PB-212
4	242.47	195	259	2.16	242.38	233	13	36.6		RA-224
0	255.51	45	198	2.41	255.42	253	6	102.0		
0	269.74	64	257	1.84	269.64	266	8	90.8		CS-135
3	295.64*	439	187	1.90	295.53	291	13	13.8	7.21E-01	PB-214
3	300.26	71	208	2.71	300.15	291	13	89.4		PB-212
0	329.89	77	179	3.39	329.77	326	8	64.1		
0	338.66*	150	147	2.55	338.53	335	8	32.7		AC-228
0	352.18*	667	281	2.16	352.05	347	11	12.5		PB-214
0	462.46	63	112	2.50	462.28	459	9	65.2		
0	510.96*	83	120	1.99	510.76	506	11	58.6		
0	552.79	30	80	4.04	552.58	549	8	111.1		
0	583.53*	152	99	2.07	583.31	579	10	29.6		TL-208
0	609.71*	503	115	2.24	609.47	602	13	12.5		BI-214
0	662.34	147	99	2.51	662.08	657	12	31.6		CS-137
0	730.07	54	111	2.25	729.78	723	14	89.0		
0	786.42	16	27	1.10	786.11	783	6	115.4		
3	827.96	20	18	3.08	827.63	824	33	86.1	2.01E+00	
3	839.57	22	25	3.09	839.23	824	33	94.3		
3	906.11	15	19	2.61	905.75	904	12	88.3	3.34E+00	
3	911.37	78	35	3.12	911.01	904	12	37.6		AC-228
0	935.65	22	50	2.02	935.27	931	8	118.1		
0	970.53	33	50	1.97	970.14	966	8	83.8		AC-228
0	992.52	48	77	18.74	992.12	982	23	97.2		
0	1069.78*	19	20	6.18	1069.36	1065	9	98.2		
0	1120.89	82	49	2.17	1120.44	1116	10	38.3		BI-214

AG 7/12/10

Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	1160.66	19	32	3.22	1160.20	1153	23	122.4	3.02E+00	
3	1166.98	14	30	2.93	1166.51	1153	23	142.6		
3	1172.73	17	27	2.74	1172.26	1153	23	113.6		
1	1239.27	29	31	2.69	1238.78	1235	15	75.1	2.57E+00	
1	1245.45	17	29	2.69	1244.95	1235	15	121.6		
0	1378.08	33	12	2.22	1377.53	1373	10	53.1		
0	1408.58	16	11	3.11	1408.01	1405	8	83.3		
0	1461.58*	239	35	2.78	1460.99	1454	14	16.7		K-40
0	1480.44	13	12	2.97	1479.85	1474	12	120.2		
0	1511.11	10	7	2.23	1510.50	1507	6	113.1		
0	1550.48	10	4	2.59	1549.85	1547	8	93.8		
0	1571.53	14	10	8.68	1570.89	1565	12	100.2		
0	1730.92	42	0	4.40	1730.21	1724	15	30.9		
0	1765.27	72	7	3.31	1764.56	1759	14	28.3		BI-214
0	1848.01	11	2	5.12	1847.26	1843	9	80.1		
0	2105.74	17	0	2.95	2104.88	2101	10	48.5		
0	2118.98	15	2	3.50	2118.12	2114	8	61.0		
0	2204.46	32	0	1.45	2203.56	2197	12	35.4		BI-214
0	2216.30	5	0	1.70	2215.40	2212	7	89.4		
0	2373.88	6	4	3.63	2372.91	2369	7	141.4		
0	2615.74*	36	0	1.46	2614.68	2610	9	34.4		TL-208

Summary of Nuclide Activity
Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

Total number of lines in spectrum	55	
Number of unidentified lines	24	
Number of lines tentatively identified by NID	31	56.36%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.635E+01	2.635E+01	0.523E+01	19.84	
TL-208	1.41E+10Y	1.00	1.868E+00	1.868E+00	0.466E+00	24.97	
PB-210	22.26Y	1.00	3.856E+00	3.868E+00	2.873E+00	74.28	
PB-212	1.41E+10Y	1.00	2.918E+00	2.918E+00	0.527E+00	18.05	
BI-214	1602.00Y	1.00	5.911E+00	5.912E+00	0.813E+00	13.74	
PB-214	1602.00Y	1.00	5.488E+00	5.488E+00	0.786E+00	14.33	
RA-224	1.41E+10Y	1.00	1.025E+01	1.025E+01	0.400E+01	39.01	
RA-226	1602.00Y	1.00	1.044E+01	1.044E+01	1.984E+01	190.03	
AC-228	1.41E+10Y	1.00	2.452E+00	2.452E+00	0.648E+00	26.42	
TH-234	4.47E+09Y	1.00	7.710E+00	7.710E+00	5.673E+00	73.58	
			---	---			
	Total Activity :		7.725E+01	7.726E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	5.572E+00	5.892E+00	3.774E+00	64.05	
SN-126	1.00E+05Y	1.00	5.600E-01	5.600E-01	3.571E-01	63.77	
CS-137	30.17Y	1.00	9.920E-01	9.943E-01	3.381E-01	34.01	
NP-237	2.14E+06Y	1.00	1.643E+00	1.643E+00	1.048E+00	63.76	
			---	---			
	Total Activity :		8.767E+00	9.090E+00			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-135	2.30E+06Y	1.00	9.095E-01	9.095E-01	8.368E-01	92.01	
			---	---			
	Total Activity :		9.095E-01	9.095E-01			

Grand Total Activity : 8.693E+01 8.726E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Line Activity Report
Sample ID : 1006061-14

Acquisition date : 9-JUL-2010 09:42:10

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	2.635E+01	2.635E+01	19.84	OK
Final Mean for 1 Valid Peaks = 2.635E+01+/- 5.229E+00 (19.84%)							
TL-208	583.14	30.22*	3.936E-01	2.526E+00	2.526E+00	32.75	OK
	860.37	4.48	2.647E-01	----- Line Not Found		-----	Absent
	2614.66	35.85	1.255E-01	1.562E+00	1.562E+00	36.16	OK
Final Mean for 2 Valid Peaks = 1.868E+00+/- 4.664E-01 (24.97%)							
PB-210	46.50	4.05*	1.314E+00	3.856E+00	3.868E+00	74.28	OK
Final Mean for 1 Valid Peaks = 3.868E+00+/- 2.873E+00 (74.28%)							
PB-212	238.63	44.60*	9.611E-01	2.889E+00	2.889E+00	18.35	OK
	300.09	3.41	7.792E-01	5.257E+00	5.257E+00	90.74	OK
Final Mean for 2 Valid Peaks = 2.918E+00+/- 5.268E-01 (18.05%)							
BI-214	609.31	46.30*	3.759E-01	5.713E+00	5.713E+00	18.46	OK
	1120.29	15.10	2.073E-01	5.207E+00	5.207E+00	39.64	OK
	1764.49	15.80	1.482E-01	6.079E+00	6.080E+00	29.99	OK
	2204.22	4.98	1.326E-01	9.578E+00	9.578E+00	36.91	OK
Final Mean for 4 Valid Peaks = 5.912E+00+/- 8.125E-01 (13.74%)							
PB-214	295.21	19.19	7.915E-01	5.709E+00	5.710E+00	20.95	OK
	351.92	37.19*	6.661E-01	5.320E+00	5.320E+00	19.61	OK
Final Mean for 2 Valid Peaks = 5.488E+00+/- 7.863E-01 (14.33%)							
RA-224	240.98	3.95*	9.529E-01	1.025E+01	1.025E+01	39.01	OK
Final Mean for 1 Valid Peaks = 1.025E+01+/- 4.000E+00 (39.01%)							
RA-226	186.21	3.28*	1.172E+00	1.044E+01	1.044E+01	190.03	OK
Final Mean for 1 Valid Peaks = 1.044E+01+/- 1.984E+01 (190.03%)							
AC-228	338.32	11.40	6.929E-01	3.753E+00	3.753E+00	36.15	OK
	911.07	27.70*	2.505E-01	2.223E+00	2.223E+00	38.99	OK
	969.11	16.60	2.363E-01	1.662E+00	1.662E+00	84.47	OK
Final Mean for 3 Valid Peaks = 2.452E+00+/- 6.479E-01 (26.42%)							
TH-234	63.29	3.80*	1.551E+00	7.710E+00	7.710E+00	73.58	OK
Final Mean for 1 Valid Peaks = 7.710E+00+/- 5.673E+00 (73.58%)							

Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	1.615E+00	5.572E+00	5.892E+00	64.05	OK
Final Mean for 1 Valid Peaks = 5.892E+00+/- 3.774E+00 (64.05%)							
SN-126	87.57	37.00*	1.615E+00	5.600E-01	5.600E-01	63.77	OK
Final Mean for 1 Valid Peaks = 5.600E-01+/- 3.571E-01 (63.77%)							
CS-137	661.65	85.12*	3.450E-01	9.920E-01	9.943E-01	34.01	OK
Final Mean for 1 Valid Peaks = 9.943E-01+/- 3.381E-01 (34.01%)							
NP-237	86.50	12.60*	1.617E+00	1.643E+00	1.643E+00	63.76	OK
Final Mean for 1 Valid Peaks = 1.643E+00+/- 1.048E+00 (63.76%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CS-135	268.24	16.00*	8.658E-01	9.095E-01	9.095E-01	92.01	OK
Final Mean for 1 Valid Peaks = 9.095E-01+/- 8.368E-01 (92.01%)							

Flag: "*" = Keyline

Sample ID : 1006061-14
Acquisition date : 9-JUL-2010 09:42:10

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	2.635E+01	5.229E+00	2.634E+00	2.607E-01	10.003
CD-109	5.892E+00	3.774E+00	4.854E+00	5.491E-01	1.214
SN-126	5.600E-01	3.571E-01	4.613E-01	4.426E-02	1.214
CS-135	9.095E-01	8.368E-01	1.055E+00	1.532E-01	0.862
CS-137	9.943E-01	3.381E-01	2.512E-01	2.981E-02	3.958
TL-208	1.868E+00	4.664E-01	6.857E-01	9.149E-02	2.725
PB-210	3.868E+00	2.873E+00	4.028E+00	3.424E-01	0.960
PB-212	2.918E+00	5.268E-01	3.839E-01	4.859E-02	7.601
BI-214	5.912E+00	8.125E-01	4.479E-01	5.797E-02	13.198
PB-214	5.488E+00	7.863E-01	4.819E-01	7.036E-02	11.388
RA-224	1.025E+01	4.000E+00	4.373E+00	5.597E-01	2.345
RA-226	1.044E+01	1.984E+01	4.738E+00	8.680E+00	2.204
AC-228	2.452E+00	6.479E-01	9.004E-01	8.649E-02	2.724
TH-234	7.710E+00	5.673E+00	4.061E+00	3.076E-01	1.899
NP-237	1.643E+00	1.048E+00	1.353E+00	1.284E-01	1.214

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	9.358E-01		1.781E+00	3.146E+00	4.413E-01	0.297
NA-22	-1.231E-01		1.558E-01	2.619E-01	2.477E-02	-0.470
AL-26	1.319E-02		1.030E-01	2.127E-01	1.931E-02	0.062
TI-44	4.934E-02		1.458E-01	1.795E-01	1.413E-02	0.275
SC-46	-8.975E-02		2.049E-01	3.619E-01	3.525E-02	-0.248
V-48	1.931E-01		7.867E-01	1.336E+00	1.284E-01	0.145
CR-51	1.301E+00		2.801E+00	4.641E+00	7.122E-01	0.280
MN-54	6.950E-02		1.378E-01	2.532E-01	2.673E-02	0.274
CO-56	1.184E-01		1.824E-01	3.390E-01	3.524E-02	0.349
CO-57	1.418E-02		1.129E-01	1.728E-01	1.782E-02	0.082
CO-58	-9.798E-02		2.214E-01	3.611E-01	3.927E-02	-0.271
FE-59	-4.508E-01		4.820E-01	7.993E-01	8.012E-02	-0.564
CO-60	1.725E-01	+	1.967E-01	3.236E-01	2.934E-02	0.533
ZN-65	-8.573E-02		4.549E-01	7.157E-01	6.674E-02	-0.120
SE-75	-7.180E-02		2.538E-01	3.425E-01	4.905E-02	-0.210
RB-82	-8.044E-01		3.207E+00	5.071E+00	5.688E-01	-0.159
RB-83	6.970E-02		3.867E-01	5.991E-01	1.143E-01	0.116
KR-85	8.759E+01		3.745E+01	6.391E+01	8.921E+00	1.371
SR-85	5.676E-01		2.426E-01	4.141E-01	5.780E-02	1.371
Y-88	4.655E-02		1.093E-01	2.470E-01	2.222E-02	0.188
NB-93M	1.791E+01		9.460E+00	8.706E+00	4.048E+00	2.058
NB-94	-1.883E-02		1.479E-01	2.506E-01	2.515E-02	-0.075
NB-95	3.649E-01		3.324E-01	6.144E-01	6.955E-02	0.594
ZR-95	-1.958E-02		3.766E-01	6.430E-01	7.758E-02	-0.030
RU-103	-6.289E-02		2.643E-01	4.419E-01	7.936E-02	-0.142
RU-106	8.709E-01		1.412E+00	2.529E+00	4.124E-01	0.344
AG-108M	3.152E-02		1.813E-01	2.808E-01	3.264E-02	0.112
AG-110M	9.479E-02		1.985E-01	3.145E-01	3.759E-02	0.301

Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SN-113	1.466E-01		2.182E-01	3.832E-01	5.253E-02	0.382
TE123M	-1.581E-02		1.285E-01	2.168E-01	1.967E-02	-0.073
SB-124	-9.727E-02		2.327E-01	3.360E-01	4.386E-02	-0.289
I-125	-9.952E-01		2.723E+00	4.633E+00	5.119E-01	-0.215
SB-125	2.804E-01		4.114E-01	7.248E-01	1.012E-01	0.387
SB-126	-6.811E-01		2.541E+00	3.721E+00	4.331E-01	-0.183
I-129	-5.748E-02		2.509E-01	4.295E-01	6.004E-02	-0.134
I-131	-2.207E+00		3.290E+00	5.340E+00	7.647E-01	-0.413
BA-133	9.669E-01		2.942E-01	4.400E-01	7.755E-02	2.198
CS-134	2.427E-01		1.633E-01	2.794E-01	3.641E-02	0.869
CS-136	4.692E-02		1.406E+00	2.602E+00	2.541E-01	0.018
LA-138	-1.471E-01		1.810E-01	3.000E-01	2.905E-02	-0.490
CE-139	-3.283E-03		1.314E-01	2.225E-01	1.958E-02	-0.015
BA-140	3.865E-01		3.861E+00	6.620E+00	2.308E+00	0.058
LA-140	7.521E-01		1.309E+00	2.619E+00	2.503E-01	0.287
CE-141	3.775E-01		4.222E-01	7.124E-01	1.952E-01	0.530
CE-144	-7.241E-01		9.322E-01	1.364E+00	1.357E-01	-0.531
PM-144	-4.984E-04		1.474E-01	2.524E-01	2.970E-02	-0.002
PM-145	-1.807E-01		5.218E-01	8.656E-01	5.659E-01	-0.209
PM-146	1.760E-01		3.190E-01	5.078E-01	7.101E-02	0.347
ND-147	9.390E+00		1.023E+01	1.844E+01	2.557E+00	0.509
EU-152	1.271E+00	+	1.070E+00	2.077E+00	2.445E-01	0.612
GD-153	-4.201E-01		4.180E-01	6.509E-01	6.398E-02	-0.645
EU-154	-3.427E-01		4.300E-01	7.219E-01	6.826E-02	-0.475
EU-155	6.797E-01	+	4.334E-01	5.917E-01	5.613E-02	1.149
EU-156	7.753E-01		7.807E+00	1.351E+01	3.213E+00	0.057
HO-166M	-3.385E-02		2.606E-01	4.402E-01	5.144E-02	-0.077
HF-172	-6.132E-01		8.231E-01	1.207E+00	1.230E-01	-0.508
LU-172	1.976E+00		1.151E+01	2.172E+01	2.040E+00	0.091
LU-173	2.126E-01		5.627E-01	8.690E-01	1.284E-01	0.245
HF-175	1.510E-01		2.391E-01	3.068E-01	4.529E-02	0.492
LU-176	5.232E-03		1.175E-01	1.787E-01	2.713E-02	0.029
TA-182	2.828E+00	+	1.121E+00	1.830E+00	1.701E-01	1.545
IR-192	-1.888E-01		3.685E-01	5.303E-01	7.433E-02	-0.356
HG-203	1.051E-01		2.404E-01	3.960E-01	6.093E-02	0.265
BI-207	-4.322E-03		1.365E-01	2.332E-01	3.151E-02	-0.019
BI-210M	1.807E-01		3.041E-01	3.824E-01	5.397E-02	0.473
PB-211	-3.241E+00		4.302E+00	6.920E+00	9.458E-01	-0.468
BI-212	1.896E+00		1.401E+00	2.593E+00	3.008E-01	0.731
RN-219	8.260E-01		1.775E+00	3.089E+00	4.213E-01	0.267
RA-223	2.112E-01		3.003E+00	4.568E+00	6.870E-01	0.046
RA-225	6.727E-01		2.122E+00	3.318E+00	3.218E-01	0.203
TH-227	5.129E+00		1.255E+00	2.047E+00	2.559E-01	2.505
TH-230	1.290E+01		3.719E+01	4.581E+01	3.600E+00	0.282
PA-231	4.666E+00		4.914E+00	7.831E+00	1.191E+00	0.596
TH-231	-5.511E-01		1.260E+00	2.139E+00	3.814E-01	-0.258
PA-233	1.477E-02		6.736E-01	1.145E+00	2.941E-01	0.013
PA-234	4.638E-01	+	5.635E-01	7.044E-01	7.060E-02	0.658

Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-234M	5.287E+00		1.524E+01	2.927E+01	2.809E+00	0.181
U-235	2.791E-01		8.533E-01	1.457E+00	2.625E-01	0.192
AM-241	2.239E-01		2.930E-01	4.591E-01	3.380E-02	0.488
AM-243	1.789E+00		2.805E-01	3.591E-01	3.014E-02	4.981
CM-243	4.452E-01		7.928E-01	1.238E+00	1.874E-01	0.360

Summary of Nuclide Activity
Sample ID : 1006061-14 Acquisition date : 9-JUL-2010 09:42:10

Total number of lines in spectrum	55	
Number of unidentified lines	24	
Number of lines tentatively identified by NID	31	56.36%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.635E+01	2.635E+01	0.523E+01	19.84	
TL-208	1.41E+10Y	1.00	1.868E+00	1.868E+00	0.466E+00	24.97	
PB-210	22.26Y	1.00	3.856E+00	3.868E+00	2.873E+00	74.28	
PB-212	1.41E+10Y	1.00	2.918E+00	2.918E+00	0.527E+00	18.05	
BI-214	1602.00Y	1.00	5.911E+00	5.912E+00	0.813E+00	13.74	
PB-214	1602.00Y	1.00	5.488E+00	5.488E+00	0.786E+00	14.33	
RA-224	1.41E+10Y	1.00	1.025E+01	1.025E+01	0.400E+01	39.01	
RA-226	1602.00Y	1.00	1.044E+01	1.044E+01	1.984E+01	190.03	
AC-228	1.41E+10Y	1.00	2.452E+00	2.452E+00	0.648E+00	26.42	
TH-234	4.47E+09Y	1.00	7.710E+00	7.710E+00	5.673E+00	73.58	
			---	---			
	Total Activity :		7.725E+01	7.726E+01			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	5.572E+00	5.892E+00	3.774E+00	64.05	
SN-126	1.00E+05Y	1.00	5.600E-01	5.600E-01	3.571E-01	63.77	
CS-137	30.17Y	1.00	9.920E-01	9.943E-01	3.381E-01	34.01	
NP-237	2.14E+06Y	1.00	1.643E+00	1.643E+00	1.048E+00	63.76	
			---	---			
	Total Activity :		8.767E+00	9.090E+00			

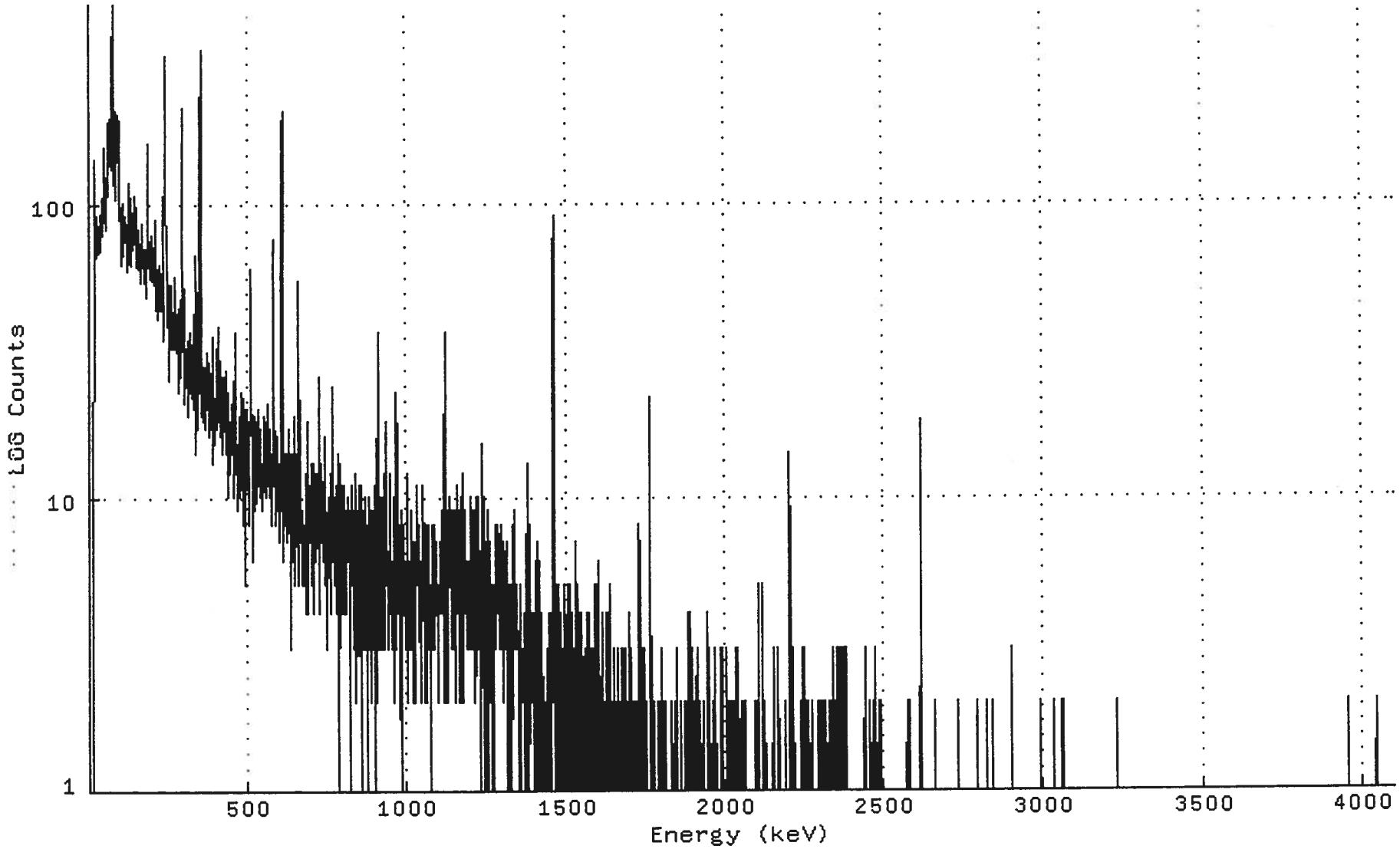
Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-135	2.30E+06Y	1.00	9.095E-01	9.095E-01	8.368E-01	92.01	
			---	---			
	Total Activity :		9.095E-01	9.095E-01			

Grand Total Activity : 8.693E+01 8.726E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606114_GE4_GAS1002_151312.CNF;1
Title :
Sample Title: S-12A
Start Time: 9-JUL-2010 09:42: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:01.89 Sample ID : 1006061-14 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



0294

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606114_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	5	92
17:	142	118	94	90	79	82	72	66
25:	79	91	84	80	76	78	84	68
33:	74	92	69	84	73	80	82	79
41:	105	84	80	80	78	137	156	125
49:	87	103	97	82	124	122	106	98
57:	117	106	123	114	135	161	186	196
65:	165	145	136	149	142	132	161	137
73:	158	217	372	339	489	446	189	123
81:	125	108	103	164	144	138	207	194
89:	163	162	161	140	193	191	134	99
97:	88	99	108	78	98	87	86	62
105:	71	83	77	78	100	84	67	90
113:	74	88	89	80	81	72	59	84
121:	85	79	79	67	72	69	72	63
129:	119	93	62	81	72	68	65	76
137:	70	87	93	81	78	73	87	107
145:	91	73	79	81	70	77	61	97
153:	70	82	71	72	60	75	82	54
161:	73	65	73	54	70	73	65	61
169:	76	63	85	58	68	65	57	54
177:	58	54	66	51	70	48	64	61
185:	89	160	122	71	69	56	57	60
193:	74	71	57	65	56	59	62	78
201:	55	53	66	60	57	60	70	73
209:	88	63	66	53	43	51	54	50
217:	60	49	40	48	43	62	52	56
225:	53	43	50	58	44	54	54	57
233:	34	50	47	55	55	209	319	176
241:	91	125	106	66	38	47	39	43
249:	46	42	31	34	25	45	53	47
257:	34	39	32	53	46	40	37	41
265:	34	32	38	43	40	57	46	33
273:	32	31	39	33	41	42	37	32
281:	39	40	23	37	44	34	26	32
289:	34	47	29	34	36	75	208	213
297:	70	33	40	52	38	34	21	27
305:	32	31	27	24	31	26	29	34
313:	29	19	29	28	34	23	27	36
321:	28	30	33	32	26	22	28	39
329:	42	40	30	27	28	14	25	24
337:	38	61	67	38	31	17	18	35
345:	19	27	23	24	30	35	166	335
353:	223	52	21	19	24	28	19	18
361:	21	21	23	18	17	20	25	22
369:	28	22	31	22	20	20	25	29
377:	26	26	19	16	21	17	21	19
385:	19	20	24	30	30	13	35	30
393:	15	19	22	15	22	21	21	18
401:	27	23	32	19	17	26	20	18
409:	31	38	32	27	18	16	27	21
417:	16	24	14	23	23	26	15	18
425:	18	25	20	20	26	16	27	16

433:	14	18	19	16	16	21	23	19
441:	10	16	12	16	15	18	16	17
449:	15	21	21	18	14	17	13	17
457:	25	10	12	17	23	27	36	19
465:	12	14	15	12	11	15	9	14
473:	16	19	14	14	10	18	13	23
481:	18	19	14	8	19	11	14	22
489:	15	5	15	19	20	11	13	17
497:	11	20	12	18	11	10	18	11
505:	8	9	15	17	17	38	60	31
513:	29	13	13	14	12	12	6	19
521:	14	10	18	16	9	10	11	15
529:	16	18	13	20	12	16	19	11
537:	11	17	11	13	12	14	10	10
545:	9	13	11	10	9	12	16	16
553:	16	19	12	10	11	18	11	14
561:	17	11	17	17	12	21	13	10
569:	15	13	13	12	17	8	13	10
577:	14	9	12	11	15	33	76	53
585:	22	13	9	11	8	8	13	13
593:	9	12	12	10	16	10	8	7
601:	12	8	13	9	11	17	24	63
609:	178	208	66	9	11	6	9	11
617:	9	13	14	10	8	10	10	14
625:	13	10	7	8	9	17	10	11
633:	9	14	11	10	6	3	7	9
641:	14	7	6	14	11	9	7	11
649:	5	19	10	14	12	11	7	8
657:	9	5	12	24	52	55	28	17
665:	13	14	8	9	7	8	8	6
673:	9	6	5	8	8	8	8	7
681:	5	9	4	6	6	10	8	18
689:	8	4	12	9	10	8	7	7
697:	9	11	10	10	10	10	8	13
705:	5	11	13	12	8	9	4	11
713:	8	11	8	12	6	8	7	10
721:	12	10	11	4	8	16	26	22
729:	11	12	8	9	11	13	8	6
737:	6	10	6	9	8	16	7	5
745:	5	11	9	7	7	3	6	6
753:	8	10	8	8	6	7	7	4
761:	12	11	8	4	8	8	13	24
769:	21	11	7	5	8	8	5	5
777:	10	6	9	4	6	11	4	11
785:	6	14	4	4	1	9	10	7
793:	8	13	11	6	11	5	4	9
801:	7	8	7	11	10	4	7	7
809:	8	7	7	4	9	9	10	8
817:	8	6	7	9	6	3	4	1
825:	6	6	11	5	7	5	6	5
833:	9	5	3	5	6	9	6	12
841:	6	3	2	4	6	7	9	8
849:	5	7	9	11	8	6	8	0
857:	6	5	3	11	8	8	7	9
865:	4	3	6	3	10	3	6	9
873:	6	6	7	8	8	1	2	9
881:	8	10	6	7	3	4	8	9
889:	8	9	2	7	9	8	6	9
897:	3	4	11	4	1	8	8	2
905:	10	8	10	6	12	21	36	28

913:	6	7	3	3	5	8	7	4
921:	10	6	3	5	10	4	8	8
929:	8	10	3	7	8	18	15	9
937:	7	5	7	6	6	6	3	5
945:	3	7	5	5	12	4	8	4
953:	5	4	3	6	3	5	10	5
961:	9	6	2	19	11	8	3	15
969:	23	14	10	6	4	4	6	4
977:	5	3	8	5	3	1	6	9
985:	7	6	3	5	6	7	8	5
993:	6	5	5	6	3	5	4	4
1001:	12	7	3	2	7	3	3	4
1009:	6	5	5	3	9	5	6	4
1017:	4	7	2	5	6	4	4	7
1025:	2	5	5	3	5	6	5	11
1033:	5	6	11	5	5	4	4	8
1041:	5	2	4	6	6	3	2	7
1049:	9	6	6	4	11	6	4	7
1057:	7	2	6	3	4	6	8	3
1065:	2	6	3	6	8	7	4	5
1073:	1	3	4	2	3	3	7	8
1081:	4	4	4	5	8	3	4	4
1089:	8	4	6	4	6	7	5	3
1097:	2	5	3	5	4	4	5	7
1105:	5	7	7	7	9	6	6	5
1113:	4	5	6	2	11	11	12	31
1121:	36	13	8	5	2	9	2	7
1129:	5	5	4	6	10	5	7	6
1137:	6	4	4	4	9	5	3	3
1145:	9	7	4	3	7	5	9	4
1153:	2	7	9	9	5	5	5	4
1161:	11	4	4	3	4	9	2	6
1169:	2	4	8	8	10	3	2	5
1177:	4	7	12	4	4	6	5	5
1185:	9	3	6	3	5	5	3	3
1193:	5	4	5	6	4	3	4	3
1201:	4	4	10	6	3	6	9	4
1209:	7	6	9	3	5	5	2	3
1217:	4	7	7	7	10	3	4	10
1225:	5	7	7	6	3	3	3	6
1233:	1	5	3	3	8	14	15	6
1241:	7	1	3	9	10	3	6	2
1249:	0	7	4	2	9	4	1	2
1257:	6	2	7	2	5	3	4	5
1265:	2	1	2	5	3	2	5	4
1273:	1	1	3	3	3	3	4	8
1281:	8	4	8	4	5	6	8	7
1289:	4	7	6	4	3	3	8	4
1297:	6	3	5	2	2	4	2	5
1305:	7	6	6	6	3	3	5	7
1313:	1	7	3	2	3	3	5	1
1321:	3	1	1	5	1	4	4	1
1329:	0	3	3	5	2	8	5	4
1337:	4	8	3	9	3	5	3	4
1345:	4	3	4	3	3	1	2	3
1353:	2	0	1	4	5	3	3	3
1361:	3	2	2	2	3	2	3	1
1369:	4	2	3	2	1	2	5	5
1377:	11	13	4	3	1	0	2	2
1385:	8	6	2	2	3	3	2	4

1393:	3	2	3	2	2	4	1	2
1401:	4	5	2	1	1	6	4	7
1409:	3	4	2	0	3	1	6	1
1417:	2	6	2	4	1	4	2	3
1425:	2	2	2	2	2	1	2	1
1433:	1	2	2	1	0	1	3	3
1441:	3	2	4	3	3	1	3	2
1449:	4	4	2	4	1	2	2	3
1457:	6	3	18	64	90	70	10	1
1465:	2	2	2	5	1	1	4	1
1473:	2	0	2	1	5	3	4	2
1481:	3	1	1	3	0	2	2	3
1489:	2	0	3	0	1	3	2	5
1497:	3	2	1	1	1	3	5	4
1505:	2	3	3	1	4	4	5	0
1513:	0	2	1	4	2	2	2	3
1521:	2	1	1	3	0	1	4	3
1529:	2	3	1	7	0	3	1	1
1537:	1	5	3	1	1	2	4	1
1545:	4	0	1	2	3	4	2	1
1553:	1	0	1	1	0	0	3	2
1561:	0	0	4	0	0	2	3	2
1569:	3	3	0	3	3	4	1	0
1577:	3	3	1	2	0	0	0	3
1585:	0	1	3	3	4	1	1	5
1593:	5	3	3	2	1	5	4	2
1601:	1	2	1	6	1	0	1	2
1609:	2	0	0	1	3	0	4	0
1617:	1	1	0	2	2	2	1	1
1625:	2	4	1	2	3	4	2	2
1633:	0	0	2	1	0	1	5	1
1641:	2	2	0	0	0	1	1	3
1649:	0	0	1	1	0	1	1	1
1657:	0	2	0	1	3	3	3	1
1665:	2	0	2	1	1	1	1	1
1673:	0	3	2	0	3	0	0	1
1681:	1	1	1	1	0	3	1	1
1689:	1	2	1	1	0	0	0	4
1697:	1	0	1	2	1	1	1	3
1705:	2	1	1	1	1	2	1	1
1713:	1	1	2	2	1	0	1	1
1721:	0	2	0	0	3	1	1	6
1729:	8	5	7	4	1	2	1	1
1737:	2	0	0	3	1	0	2	1
1745:	1	3	1	0	1	0	2	2
1753:	1	0	0	0	1	1	0	1
1761:	1	5	15	18	22	11	1	1
1769:	1	1	2	0	1	0	1	0
1777:	2	0	1	1	1	1	0	1
1785:	0	0	2	1	2	0	0	1
1793:	1	0	0	2	2	1	1	2
1801:	3	0	0	1	0	2	0	1
1809:	0	2	2	1	0	0	1	1
1817:	0	0	0	1	0	0	0	0
1825:	0	1	0	0	0	1	0	2
1833:	0	1	1	1	1	0	0	0
1841:	2	0	0	1	2	1	3	2
1849:	3	1	0	1	0	0	1	0
1857:	1	2	1	0	0	0	1	0
1865:	1	1	1	0	1	0	0	1

1873:	2	1	0	0	0	1	2	2
1881:	1	0	1	0	1	4	2	2
1889:	1	0	4	1	1	3	1	1
1897:	1	1	0	1	0	2	0	2
1905:	0	1	0	1	1	2	3	0
1913:	1	1	0	1	2	1	0	1
1921:	0	2	0	0	0	0	1	0
1929:	2	2	1	0	0	1	1	0
1937:	0	1	0	1	0	1	0	0
1945:	4	0	2	0	3	1	0	2
1953:	0	0	1	0	0	1	2	0
1961:	2	1	2	0	0	0	1	3
1969:	1	2	1	1	1	0	1	0
1977:	1	0	0	1	0	0	1	0
1985:	2	1	3	2	0	2	3	0
1993:	1	0	1	0	1	0	0	0
2001:	0	2	3	1	2	0	2	1
2009:	2	0	1	0	0	0	2	2
2017:	0	0	2	0	0	1	0	0
2025:	0	1	1	1	2	2	0	0
2033:	1	3	0	0	2	1	0	0
2041:	2	3	1	1	0	0	0	1
2049:	2	0	1	0	0	0	0	1
2057:	0	0	2	0	0	0	0	2
2065:	0	0	0	1	1	1	1	0
2073:	1	0	0	1	0	0	0	0
2081:	1	1	1	1	1	0	0	0
2089:	0	1	0	0	0	2	0	0
2097:	2	1	0	0	0	0	4	4
2105:	5	1	1	1	1	0	0	0
2113:	0	0	0	2	4	4	5	2
2121:	0	1	0	0	1	2	1	1
2129:	0	0	0	1	1	0	0	1
2137:	0	0	1	0	0	1	0	0
2145:	0	1	0	0	0	0	2	1
2153:	0	3	3	0	0	0	0	1
2161:	0	1	0	1	0	1	0	3
2169:	0	1	0	0	0	1	1	0
2177:	0	0	1	1	1	0	1	0
2185:	0	0	1	0	2	1	0	1
2193:	1	1	0	0	0	1	1	1
2201:	2	2	2	14	6	2	1	0
2209:	0	1	0	0	0	0	3	2
2217:	0	0	0	0	0	0	0	0
2225:	1	1	1	0	1	1	1	0
2233:	1	0	0	1	2	2	1	0
2241:	0	0	0	0	2	3	0	1
2249:	0	2	3	0	0	1	1	2
2257:	1	1	0	0	0	0	2	1
2265:	0	1	0	0	1	0	2	0
2273:	0	1	0	0	1	1	0	1
2281:	1	1	0	0	0	0	0	0
2289:	0	1	2	2	0	1	0	0
2297:	1	2	0	0	1	2	0	0
2305:	0	1	0	1	1	0	2	0
2313:	1	0	0	2	1	2	1	1
2321:	0	0	0	0	1	0	2	1
2329:	0	0	2	2	1	0	0	0
2337:	1	1	1	1	2	3	0	1
2345:	1	0	2	1	0	1	1	0

2353:	3	2	1	0	1	0	1	3
2361:	0	0	2	3	0	1	1	1
2369:	0	2	0	3	3	1	0	1
2377:	1	2	3	0	0	1	0	0
2385:	0	0	1	1	1	1	1	0
2393:	0	1	0	0	1	1	1	1
2401:	0	0	1	0	0	0	0	1
2409:	0	1	0	1	1	1	0	1
2417:	1	1	1	0	0	0	0	0
2425:	0	0	1	0	1	0	0	0
2433:	0	0	0	0	0	1	3	1
2441:	1	0	1	1	0	0	1	1
2449:	1	0	1	0	1	0	2	0
2457:	1	0	0	1	0	0	2	0
2465:	0	0	1	0	2	0	0	0
2473:	3	1	0	0	1	0	1	1
2481:	2	0	0	0	1	1	1	2
2489:	0	1	0	0	0	0	1	1
2497:	0	0	1	0	0	1	0	0
2505:	0	0	0	0	0	0	0	1
2513:	0	0	0	0	0	0	1	0
2521:	1	1	0	0	0	0	0	0
2529:	0	0	0	0	1	1	0	0
2537:	0	0	1	0	1	0	0	0
2545:	0	1	1	0	0	1	0	0
2553:	0	0	0	0	0	0	1	0
2561:	0	0	0	0	0	0	0	1
2569:	0	0	2	0	0	0	0	0
2577:	2	0	0	0	2	0	0	0
2585:	1	0	0	0	0	0	0	0
2593:	0	0	0	0	1	0	0	1
2601:	0	0	0	0	0	0	1	2
2609:	0	0	0	1	5	7	18	4
2617:	2	0	0	0	0	1	0	0
2625:	0	0	0	0	1	0	0	0
2633:	0	0	0	0	0	0	0	0
2641:	0	1	1	0	0	0	0	0
2649:	1	1	0	1	0	0	0	0
2657:	0	2	0	0	0	0	0	0
2665:	0	0	1	0	0	0	0	0
2673:	0	0	0	0	0	1	0	0
2681:	0	0	0	0	0	0	0	0
2689:	1	1	0	0	1	1	0	0
2697:	0	1	0	0	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	0	0	1	0	0	0	0
2721:	0	1	0	0	0	0	0	0
2729:	2	0	0	0	0	0	0	0
2737:	0	1	0	0	0	0	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	1	0	1	0	0	0
2761:	1	0	0	0	0	0	0	0
2769:	0	0	0	1	0	0	0	1
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	2	1	0	0	0
2793:	0	0	0	0	0	0	0	1
2801:	0	0	0	0	0	1	0	0
2809:	0	0	0	1	0	0	0	0
2817:	2	0	1	1	0	0	0	0
2825:	1	0	0	1	0	0	0	0

2833:	1	0	0	0	1	2	0	0
2841:	0	1	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	1
2865:	0	0	0	0	1	0	0	0
2873:	0	0	0	0	0	0	0	1
2881:	0	0	0	0	0	1	1	0
2889:	0	0	0	0	1	0	3	2
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	1	0
2913:	0	0	0	0	1	1	1	0
2921:	0	1	0	0	0	1	0	0
2929:	0	0	0	1	0	1	0	0
2937:	0	0	0	0	0	0	0	1
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	1	0	0	1
2961:	0	0	0	0	1	0	0	1
2969:	0	0	0	0	0	0	0	0
2977:	0	0	0	1	1	0	0	0
2985:	0	0	2	0	0	0	0	0
2993:	0	0	0	1	0	1	1	0
3001:	0	0	0	1	0	0	0	0
3009:	0	0	0	0	0	0	0	0
3017:	0	1	1	0	1	1	0	0
3025:	0	0	1	0	0	2	0	1
3033:	0	0	1	0	0	0	0	0
3041:	0	1	1	0	0	0	0	1
3049:	0	0	0	0	2	0	0	0
3057:	0	0	2	0	0	0	1	1
3065:	0	1	1	0	0	0	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	1	0	0	0	1	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	0	1	0	0	1
3105:	0	1	1	0	0	0	0	0
3113:	0	0	0	1	0	0	0	0
3121:	0	0	0	0	0	0	1	0
3129:	0	0	1	0	0	0	0	0
3137:	0	1	0	0	1	0	0	0
3145:	0	1	0	0	0	0	1	0
3153:	0	1	0	0	0	0	0	0
3161:	1	0	0	1	0	0	0	1
3169:	0	0	0	0	0	0	0	0
3177:	0	0	0	0	0	1	1	0
3185:	0	1	0	1	0	0	0	0
3193:	0	0	0	0	0	1	0	1
3201:	0	0	0	0	0	1	0	0
3209:	0	0	1	0	1	0	0	0
3217:	0	0	0	1	0	0	0	0
3225:	0	0	2	0	0	0	0	0
3233:	0	0	0	0	0	0	1	0
3241:	0	0	0	1	1	1	0	0
3249:	0	0	0	0	0	0	1	0
3257:	0	0	0	0	1	0	0	0
3265:	0	0	0	0	1	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	0	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	1	1	0	0

3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	0	0	0	1	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	1	0	0	0
3345:	0	0	1	0	0	0	0	0
3353:	0	0	0	1	0	1	0	0
3361:	0	1	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	1	0
3385:	0	0	1	0	0	0	0	0
3393:	0	0	0	1	0	0	0	0
3401:	0	0	0	0	0	1	0	0
3409:	0	0	0	1	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	0	0	0	0	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	0	0	0	1	0	0	0
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	1	0	1	0	0
3473:	0	0	0	1	0	0	0	0
3481:	0	1	1	0	0	0	0	0
3489:	0	0	0	1	0	0	0	0
3497:	0	0	0	0	0	0	0	0
3505:	0	0	0	0	0	0	0	0
3513:	0	0	1	0	0	1	0	0
3521:	0	0	0	1	1	0	0	0
3529:	0	1	0	0	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	0	0	0	0	1	0	0
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	0
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	1	0	0	0	0	0	0
3601:	0	0	0	0	0	0	1	0
3609:	1	0	0	1	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	1	0	0	0	0	0	0
3657:	0	0	0	0	1	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	1	0	0	0	1	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	1	0	0	0	0	1
3713:	0	0	0	0	0	0	1	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	0
3745:	0	0	0	0	1	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	1	0	0	0	0	0
3769:	0	1	0	0	0	0	0	0
3777:	0	0	0	0	0	1	0	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	1	0	1	0	0
3801:	0	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	1	0	1	0	0	0
3825:	0	0	0	0	0	0	1	0
3833:	0	0	0	0	0	0	0	0
3841:	1	0	0	0	0	0	0	0
3849:	0	1	0	0	0	0	0	0
3857:	0	0	0	0	0	0	0	0
3865:	0	1	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	1	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	1	0	0	0	0	0	1	1
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	1	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	1	0
3945:	0	0	0	0	0	0	0	0
3953:	2	0	0	0	0	0	0	0
3961:	0	0	1	0	0	0	0	0
3969:	0	0	0	0	1	0	0	1
3977:	1	1	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	2
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	1
4057:	0	0	0	0	1	1	0	0
4065:	0	0	0	0	0	0	1	0
4073:	0	1	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	1	0	0	0	0	0	0

Sample ID : 1006061-15 Acquisition date : 9-JUL-2010 10:42:44

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VAX/VMS Peak Search Report Generated 9-JUL-2010 11:43:21.33

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606115_GE1_GAS1002_151317.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-13
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 10:42:44.
Sample ID : 1006061-15 Sample Quantity : 1.52000E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:16.16 0.4%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	25.80	845	7797	2.20	25.21	22	9	38.4		TH-231
0	39.50	584	5956	1.27	38.92	36	7	44.5		RA-225
0	46.25*	688	3771	1.44	45.67	44	4	26.4		PB-210
0	53.67	264	5924	1.55	53.10	50	5	88.2		
0	62.96*	3365	11148	1.90	62.39	60	6	10.5		TH-234
0	67.39	1128	11889	1.20	66.83	65	6	31.1		
5	75.79*	36621	17203	3.26	75.24	70	27	1.7	8.04E+02	AM-243
5	80.21	1938	13571	2.98	79.65	70	27	28.0		
5	83.86*	3643	8486	1.97	83.31	70	27	9.1		TH-231
5	87.67	10921	13080	3.29	87.13	70	27	4.8		EU-155
										NP-237
										SN-126
										CD-109
5	92.95*	11332	10357	3.00	92.41	70	27	4.2		
0	99.20	1053	5854	2.16	98.66	97	6	23.9		
0	104.90	651	5081	1.66	104.37	103	5	33.4		EU-155
0	114.90	828	6680	1.73	114.38	111	8	35.1		
0	129.47	2060	7898	1.58	128.95	124	9	16.2		
0	144.30*	1263	7076	1.85	143.80	140	9	24.7		U-235
										CE-141
0	153.95	1065	6029	1.54	153.45	150	8	26.0		
0	164.40	216	4988	1.84	163.92	161	7	109.2		U-235
										CE-139
0	173.22	174	4074	2.50	172.74	171	6	117.1		
0	185.91*	3771	6384	1.76	185.44	181	9	8.3		RA-226
2	206.10	330	2609	2.12	205.64	203	11	44.3	8.36E+00	U-235
2	209.55	2382	3094	1.78	209.10	203	11	8.1		
0	216.04	191	3250	2.52	215.59	214	6	95.7		
5	237.15	8082	4424	2.87	236.72	232	16	5.2	1.78E+03	PB-212
5	241.43*	7861	3656	2.96	241.00	232	16	5.4		RA-224
4	253.18	161	1148	1.64	252.75	251	13	56.8	2.27E+00	
4	256.97	372	3773	3.18	256.55	251	13	63.2		
1	267.36	214	2570	2.24	266.95	264	18	88.6	1.04E+01	CS-135
1	270.49	2573	2186	2.04	270.07	264	18	7.0		
1	274.19	294	2159	2.13	273.78	264	18	55.2		
1	277.51	1220	2144	1.97	277.10	264	18	13.4		

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Sample ID : 1006061-15 Acquisition date : 9-JUL-2010 10:42:44

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	287.67	280	3117	2.92	287.27	282	24	71.6	1.84E+01	
3	292.18	459	2384	2.41	291.78	282	24	38.2		
3	295.48*	5013	1630	1.63	295.09	282	24	3.8		PB-214
3	300.21	1970	1865	2.15	299.82	282	24	8.4		PB-212
0	328.00	1072	3038	1.41	327.63	324	8	18.8		
0	338.65	5121	3559	1.56	338.28	333	10	5.2		AC-228
4	349.46	675	1956	2.19	349.11	345	13	34.6	3.07E+01	
4	352.18*	8940	1408	1.82	351.83	345	13	2.5		PB-214
0	364.58	162	1468	3.15	364.24	362	6	76.3		I-131
1	384.33	184	1829	2.24	384.00	380	11	78.9	2.64E+00	
1	387.55	154	1860	2.47	387.22	380	11	94.6		
2	401.84	238	2026	2.72	401.53	397	17	66.8	3.67E+00	RN-219
2	405.46	238	1504	2.15	405.15	397	17	53.8		PB-211
2	409.52	737	1486	2.03	409.21	397	17	18.1		
0	440.47	105	1277	1.46	440.18	437	7	114.3		
0	446.65	96	1089	3.56	446.37	444	6	110.5		
0	452.94	177	1505	2.85	452.66	450	8	77.1		
0	463.16*	1639	1815	1.76	462.89	458	10	10.9		
0	479.25	170	1420	3.85	478.99	476	8	78.0		
0	510.75*	2643	1649	2.11	510.52	506	10	7.0		
0	533.66	138	1202	4.86	533.44	530	8	88.7		
0	562.36	175	1272	1.95	562.16	559	8	72.0		
0	583.34*	8444	1785	1.80	583.16	577	12	3.0		TL-208
0	609.46*	6549	1679	1.94	609.30	604	11	3.5		BI-214
0	638.37	124	858	4.39	638.22	635	7	80.4		I-131
0	665.10	211	1217	1.99	664.98	660	9	61.1		
0	713.58	87	704	2.68	713.49	711	6	99.5		
0	727.54	1762	1571	2.09	727.47	721	12	10.2		BI-212
6	754.91	340	1088	4.25	754.85	749	29	38.9	4.20E+00	
6	763.61	255	868	3.07	763.56	749	29	44.4		
6	768.26	710	851	2.84	768.22	749	29	17.3		
6	772.31	396	744	2.71	772.27	749	29	28.3		
5	782.36	140	409	1.64	782.33	780	10	47.0	8.56E-01	
5	785.77	362	505	1.95	785.74	780	10	22.6		
0	795.16	1017	771	2.03	795.14	791	10	12.0		
5	806.49	180	547	2.56	806.47	801	10	47.7	1.89E+00	
1	831.04	150	583	2.52	831.04	827	19	57.8	1.30E+00	PB-211
1	835.76	379	569	2.67	835.77	827	19	24.6		MN-54
1	840.18	262	556	2.55	840.19	827	19	35.6		
4	856.82	67	159	1.79	856.84	855	12	53.2	4.44E+00	
4	860.66	964	356	1.93	860.68	855	12	9.0		TL-208
6	904.70	308	685	4.34	904.75	899	20	35.0	1.23E+01	
6	911.35*	5285	366	2.01	911.41	899	20	3.0		AC-228
0	934.65	296	528	2.17	934.73	929	10	31.4		
3	965.03	1134	389	2.31	965.12	960	21	9.2	2.80E+00	
3	969.12	3108	306	2.10	969.22	960	21	4.2		AC-228
1	995.13	55	239	2.72	995.25	992	14	91.1	1.51E+00	
1	1001.12*	221	275	2.26	1001.25	992	14	28.5		PA-234M
0	1066.03	118	484	5.05	1066.20	1059	13	79.1		
0	1077.54	122	386	2.71	1077.72	1073	12	66.9		
0	1094.35	196	356	2.88	1094.55	1089	11	40.0		

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It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1111.66	61	262	1.54	1111.86	1108	7	92.7		
0	1120.39	1489	427	2.21	1120.60	1115	13	7.7		BI-214
0	1155.24	168	461	2.41	1155.48	1149	13	54.8		
6	1238.17	473	194	2.16	1238.47	1232	19	13.1	1.08E+00	
6	1245.87	92	289	3.50	1246.17	1232	19	70.4		
0	1281.97	86	386	2.14	1282.30	1276	11	90.9		
0	1320.30	59	320	4.73	1320.65	1316	12	124.4		
0	1377.88	393	324	2.48	1378.28	1373	11	20.5		
0	1385.66	74	200	2.82	1386.07	1384	7	67.6		
1	1401.84	107	255	2.85	1402.25	1398	16	57.1	1.58E+00	
1	1408.39	198	235	2.85	1408.81	1398	16	31.9		
0	1460.25*	218	446	4.47	1460.71	1450	20	49.6		K-40
3	1495.84	155	219	3.48	1496.32	1488	30	39.6	2.06E+00	
3	1501.27	84	228	3.48	1501.77	1488	30	73.5		
3	1509.14	165	215	2.96	1509.63	1488	30	35.7		
1	1580.72	77	182	2.90	1581.26	1577	21	67.7	6.20E+00	
1	1588.18	492	174	2.90	1588.74	1577	21	13.9		
1	1593.18*	242	147	2.56	1593.74	1577	21	24.4		
1	1620.57	254	128	2.81	1621.15	1616	20	19.7	2.73E+00	BI-212
1	1630.60	244	147	2.53	1631.18	1616	20	21.1		
0	1638.25	39	147	3.59	1638.84	1636	8	111.5		
0	1661.36	103	268	2.69	1661.97	1654	16	73.6		
0	1729.59	229	179	2.33	1730.25	1723	13	27.4		
0	1764.36*	1082	171	2.58	1765.05	1758	14	8.0		BI-214
0	1847.33	141	157	3.01	1848.07	1843	11	38.4		
0	2103.08	393	210	3.29	2104.01	2097	14	18.6		
0	2117.89	85	139	2.13	2118.83	2114	11	57.7		
0	2203.72*	319	199	3.19	2204.72	2197	15	22.3		BI-214
0	2214.52	30	82	1.32	2215.53	2212	7	106.4		
0	2447.45	91	106	1.61	2448.64	2444	10	47.0		
0	2614.05*	2804	52	3.01	2615.36	2607	16	4.0		TL-208
0	2758.25*	12	11	4.91	2759.66	2755	9	119.5		
0	2860.71	21	3	5.52	2862.19	2856	12	54.5		
0	2920.87	18	3	5.32	2922.40	2917	11	57.9		
0	2944.45	21	3	4.10	2946.00	2940	12	54.2		
0	2964.78	9	2	2.01	2966.35	2963	7	79.3		
0	2994.97	8	2	1.73	2996.56	2993	8	97.2		
0	3053.42	9	4	2.91	3055.04	3049	10	117.2		
0	3123.73	24	2	2.41	3125.40	3121	9	47.0		
0	3196.75	80	2	2.91	3198.48	3194	9	23.4		

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Total number of lines in spectrum	122	
Number of unidentified lines	58	
Number of lines tentatively identified by NID	64	52.46%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.998E+01	1.998E+01	1.017E+01	50.89	
TL-208	1.41E+10Y	1.00	1.210E+02	1.210E+02	0.088E+02	7.31	
PB-210	22.26Y	1.00	3.690E+01	3.702E+01	1.078E+01	29.13	
PB-211	3.28E+04Y	1.00	3.095E+01	3.095E+01	1.242E+01	40.12	
BI-212	1.41E+10Y	1.00	8.911E+01	8.911E+01	1.129E+01	12.67	
PB-212	1.41E+10Y	1.00	4.402E+01	4.402E+01	0.538E+01	12.21	
BI-214	1602.00Y	1.00	7.522E+01	7.523E+01	0.520E+01	6.92	
PB-214	1602.00Y	1.00	7.516E+01	7.517E+01	0.628E+01	8.36	
RN-219	3.28E+04Y	1.00	1.298E+01	1.298E+01	0.877E+01	67.55	
RA-224	1.41E+10Y	1.00	4.865E+02	4.865E+02	0.601E+02	12.35	
RA-225	14.80D	5.78	4.618E+00	2.670E+01	1.243E+01	46.57	
RA-226	1602.00Y	1.00	2.421E+02	2.421E+02	4.440E+02	183.38	
AC-228	1.41E+10Y	1.00	1.354E+02	1.354E+02	0.082E+02	6.04	
PA-234M	4.47E+09Y	1.00	1.792E+02	1.792E+02	0.536E+02	29.89	
TH-234	4.47E+09Y	1.00	1.634E+02	1.634E+02	0.266E+02	16.29	
U-235	7.04E+08Y	1.00	1.560E+01	1.560E+01	0.757E+01	48.57	
			---	---			
	Total Activity :		1.732E+03	1.754E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	2.455E+00	2.668E+00	0.709E+00	26.56	
CS-135	2.30E+06Y	1.00	3.508E+00	3.508E+00	3.136E+00	89.41	
AM-243	7380.00Y	1.00	9.789E+01	9.789E+01	1.723E+01	17.60	
			---	---			
	Total Activity :		1.038E+02	1.041E+02			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	5.086E+02	5.378E+02	1.341E+02	24.93	
SN-126	1.00E+05Y	1.00	5.114E+01	5.114E+01	1.228E+01	24.00	
I-131	8.04D	25.3	6.973E-01	1.763E+01	1.277E+01	72.40	
CE-139	137.66D	1.21	5.363E-01	6.477E-01	7.100E-01	109.62	
CE-141	32.50D	2.22	4.932E+00	1.097E+01	0.406E+01	36.99	
EU-155	4.96Y	1.01	5.488E+00	5.567E+00	2.082E+00	37.40	
TH-231	7.04E+08Y	1.00	2.396E+01	2.396E+01	1.067E+01	44.52	
NP-237	2.14E+06Y	1.00	1.503E+02	1.503E+02	0.353E+02	23.50	
			---	---			
	Total Activity :		7.456E+02	7.980E+02			

Grand Total Activity : 2.582E+03 2.656E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-15
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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	1.998E+01	1.998E+01	50.89	OK
	Final Mean for 1 Valid Peaks = 1.998E+01+/- 1.017E+01 (50.89%)						
TL-208	583.14	30.22*	1.026E+00	1.345E+02	1.345E+02	11.95	OK
	860.37	4.48	7.447E-01	1.428E+02	1.428E+02	13.18	OK
	2614.66	35.85	3.778E-01	1.022E+02	1.022E+02	12.54	OK
	Final Mean for 3 Valid Peaks = 1.210E+02+/- 8.844E+00 (7.31%)						
PB-210	46.50	4.05*	2.273E+00	3.690E+01	3.702E+01	29.13	OK
	Final Mean for 1 Valid Peaks = 3.702E+01+/- 1.078E+01 (29.13%)						
PB-211	404.84	2.90*	1.385E+00	2.926E+01	2.926E+01	54.74	OK
	831.96	2.90	7.651E-01	3.349E+01	3.349E+01	58.67	OK
	Final Mean for 2 Valid Peaks = 3.095E+01+/- 1.242E+01 (40.12%)						
BI-212	727.17	11.80*	8.541E-01	8.637E+01	8.637E+01	15.29	OK
	1620.62	2.75	4.729E-01	9.656E+01	9.656E+01	22.52	OK
	Final Mean for 2 Valid Peaks = 8.911E+01+/- 1.129E+01 (12.67%)						
PB-212	238.63	44.60*	2.033E+00	4.402E+01	4.402E+01	12.21	OK
	300.09	3.41	1.740E+00	1.640E+02	1.640E+02	14.51	<<WM N-Sigma
	Final Mean for 1 Valid Peaks = 4.402E+01+/- 5.377E+00 (12.21%)						
BI-214	609.31	46.30*	9.893E-01	7.063E+01	7.063E+01	12.22	OK
	1120.29	15.10	6.070E-01	8.022E+01	8.023E+01	12.00	OK
	1764.49	15.80	4.502E-01	7.512E+01	7.512E+01	13.25	OK
	2204.22	4.98	4.030E-01	7.861E+01	7.861E+01	24.95	OK
	Final Mean for 4 Valid Peaks = 7.523E+01+/- 5.205E+00 (6.92%)						
PB-214	295.21	19.19	1.761E+00	7.329E+01	7.329E+01	12.48	OK
	351.92	37.19*	1.545E+00	7.684E+01	7.684E+01	11.25	OK
	Final Mean for 2 Valid Peaks = 7.517E+01+/- 6.283E+00 (8.36%)						
RN-219	401.80	6.50*	1.393E+00	1.298E+01	1.298E+01	67.55	OK
	Final Mean for 1 Valid Peaks = 1.298E+01+/- 8.767E+00 (67.55%)						
RA-224	240.98	3.95*	2.021E+00	4.865E+02	4.865E+02	12.35	OK
	Final Mean for 1 Valid Peaks = 4.865E+02+/- 6.008E+01 (12.35%)						

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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
RA-225	40.00	31.00*	2.015E+00	4.618E+00	2.670E+01	46.57	OK
Final Mean for 1 Valid Peaks = 2.670E+01+/- 1.243E+01 (46.57%)							
RA-226	186.21	3.28*	2.345E+00	2.421E+02	2.421E+02	183.38	OK
Final Mean for 1 Valid Peaks = 2.421E+02+/- 4.440E+02 (183.38%)							
AC-228	338.32	11.40	1.592E+00	1.393E+02	1.393E+02	12.38	OK
	911.07	27.70*	7.115E-01	1.325E+02	1.325E+02	9.54	OK
	969.11	16.60	6.778E-01	1.365E+02	1.365E+02	10.05	OK
Final Mean for 3 Valid Peaks = 1.354E+02+/- 8.180E+00 (6.04%)							
PA-234M	1001.03	0.92*	6.609E-01	1.792E+02	1.792E+02	29.89	OK
Final Mean for 1 Valid Peaks = 1.792E+02+/- 5.356E+01 (29.89%)							
TH-234	63.29	3.80*	2.676E+00	1.634E+02	1.634E+02	16.29	OK
Final Mean for 1 Valid Peaks = 1.634E+02+/- 2.662E+01 (16.29%)							
U-235	143.76	10.50*	2.624E+00	2.264E+01	2.264E+01	30.67	<<WM Interf
	163.35	4.70	2.495E+00	9.108E+00	9.108E+00	110.94	<<WM Interf
	205.31	4.70	2.225E+00	1.560E+01	1.560E+01	48.57	OK
Final Mean for 1 Valid Peaks = 1.560E+01+/- 7.574E+00 (48.57%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
MN-54	834.83	99.97*	7.630E-01	2.455E+00	2.668E+00	26.56	OK
Final Mean for 1 Valid Peaks = 2.668E+00+/- 7.088E-01 (26.56%)							
CS-135	268.24	16.00*	1.882E+00	3.508E+00	3.508E+00	89.41	OK
Final Mean for 1 Valid Peaks = 3.508E+00+/- 3.136E+00 (89.41%)							
AM-243	74.67	66.00*	2.800E+00	9.789E+01	9.789E+01	17.60	OK
Final Mean for 1 Valid Peaks = 9.789E+01+/- 1.723E+01 (17.60%)							

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Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	2.851E+00	5.086E+02	5.378E+02	24.93	OK
Final Mean for 1 Valid Peaks = 5.378E+02+/- 1.341E+02 (24.93%)							
SN-126	87.57	37.00*	2.851E+00	5.114E+01	5.114E+01	24.00	OK
Final Mean for 1 Valid Peaks = 5.114E+01+/- 1.228E+01 (24.00%)							
I-131	284.30	6.05	1.808E+00	----- Line Not Found		-----	Absent
	364.48	81.20*	1.504E+00	6.570E-01	1.661E+01	77.04	OK
	636.97	7.26	9.533E-01	8.857E+00	2.239E+02	81.31	OK
	722.89	1.80	8.583E-01	----- Line Not Found		-----	Absent
Final Mean for 2 Valid Peaks = 1.763E+01+/- 1.277E+01 (72.40%)							
CE-139	165.85	80.35*	2.479E+00	5.363E-01	6.477E-01	109.62	OK
Final Mean for 1 Valid Peaks = 6.477E-01+/- 7.100E-01 (109.62%)							
CE-141	145.44	48.40*	2.614E+00	4.932E+00	1.097E+01	36.99	OK
Final Mean for 1 Valid Peaks = 1.097E+01+/- 4.056E+00 (36.99%)							
EU-155	86.50	30.90*	2.849E+00	6.127E+01	6.215E+01	23.50	<<WM Interf
	105.30	20.70	2.829E+00	5.488E+00	5.567E+00	37.40	OK
Final Mean for 1 Valid Peaks = 5.567E+00+/- 2.082E+00 (37.40%)							
TH-231	25.64	14.70*	1.184E+00	2.396E+01	2.396E+01	44.52	OK
	84.21	6.40	2.844E+00	9.883E+01	9.883E+01	23.73	<<WM N-Sigma
Final Mean for 1 Valid Peaks = 2.396E+01+/- 1.067E+01 (44.52%)							
NP-237	86.50	12.60*	2.849E+00	1.503E+02	1.503E+02	23.50	OK
Final Mean for 1 Valid Peaks = 1.503E+02+/- 3.532E+01 (23.50%)							

Flag: "*" = Keyline

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	1.998E+01	1.017E+01	6.277E+00	6.573E-01	3.183
MN-54	2.668E+00	7.088E-01	7.707E-01	7.118E-02	3.462
CD-109	5.378E+02	1.341E+02	2.235E+01	5.396E+00	24.060
SN-126	5.114E+01	1.228E+01	2.125E+00	4.927E-01	24.063
I-131	1.763E+01	1.277E+01	2.049E+01	2.031E+00	0.861
CS-135	3.508E+00	3.136E+00	3.776E+00	4.189E-01	0.929
CE-139	6.477E-01	7.100E-01	9.185E-01	7.826E-02	0.705
CE-141	1.097E+01	4.056E+00	2.911E+00	7.929E-01	3.767
EU-155	5.567E+00	2.082E+00	2.582E+00	5.852E-01	2.156
TL-208	1.210E+02	8.844E+00	2.434E+00	2.645E-01	49.694
PB-210	3.702E+01	1.078E+01	1.968E+01	2.275E+00	1.881
PB-211	3.095E+01	1.242E+01	2.399E+01	2.232E+00	1.290
BI-212	8.911E+01	1.129E+01	6.846E+00	7.313E-01	13.016
PB-212	4.402E+01	5.377E+00	1.413E+00	1.456E-01	31.159
BI-214	7.523E+01	5.205E+00	1.648E+00	1.815E-01	45.658
PB-214	7.517E+01	6.283E+00	1.774E+00	1.813E-01	42.364
RN-219	1.298E+01	8.767E+00	1.064E+01	9.859E-01	1.220
RA-224	4.865E+02	6.008E+01	1.606E+01	1.665E+00	30.295
RA-225	2.670E+01	1.243E+01	1.501E+01	1.957E+00	1.779
RA-226	2.421E+02	4.440E+02	2.001E+01	3.664E+01	12.102
AC-228	1.354E+02	8.180E+00	2.589E+00	2.104E-01	52.308
TH-231	2.396E+01	1.067E+01	1.111E+01	2.466E+00	2.156
PA-234M	1.792E+02	5.356E+01	6.747E+01	5.564E+00	2.656
TH-234	1.634E+02	2.662E+01	2.319E+01	2.738E+00	7.048
U-235	1.560E+01	7.574E+00	6.008E+00	1.066E+00	2.596
NP-237	1.503E+02	3.532E+01	6.243E+00	1.415E+00	24.069
AM-243	9.789E+01	1.723E+01	1.209E+00	2.062E-01	80.965

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	7.685E+00		7.531E+00	1.104E+01	1.110E+00	0.696
NA-22	1.512E-01		4.705E-01	7.245E-01	6.883E-02	0.209
AL-26	2.342E-01		3.362E-01	6.053E-01	5.864E-02	0.387
TI-44	2.158E+00	+	7.405E-01	1.026E+00	1.429E-01	2.104
SC-46	-3.790E-01		5.839E-01	9.853E-01	8.147E-02	-0.385
V-48	6.123E-01		2.197E+00	3.386E+00	2.787E-01	0.181
CR-51	-1.358E+01		1.193E+01	1.664E+01	1.867E+00	-0.816
CO-56	-7.863E-02		6.341E-01	9.603E-01	8.679E-02	-0.082
CO-57	2.985E-01		6.647E-01	7.747E-01	7.456E-02	0.385
CO-58	-1.447E-01		6.719E-01	1.014E+00	9.767E-02	-0.143
FE-59	1.086E+00		1.338E+00	2.117E+00	1.904E-01	0.513
CO-60	1.298E-01		3.825E-01	6.689E-01	5.493E-02	0.194
ZN-65	4.424E+00		1.424E+00	1.906E+00	1.577E-01	2.321
SE-75	4.734E-01		1.103E+00	1.272E+00	1.404E-01	0.372
RB-82	1.711E+01		1.440E+01	1.698E+01	1.715E+00	1.008
RB-83	1.885E-01		1.428E+00	2.053E+00	3.427E-01	0.092

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---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
KR-85	1.733E+03		2.384E+02	2.534E+02	2.629E+01	6.840
SR-85	1.124E+01		1.545E+00	1.643E+00	1.704E-01	6.840
Y-88	1.069E-01		5.527E-01	8.455E-01	8.124E-02	0.126
NB-93M	1.084E+02		5.753E+01	3.306E+01	1.645E+01	3.280
NB-94	2.168E-01		4.512E-01	6.996E-01	6.023E-02	0.310
NB-95	9.209E+00		1.592E+00	2.289E+00	2.345E-01	4.022
ZR-95	4.992E+00		1.540E+00	2.479E+00	2.748E-01	2.014
RU-103	3.232E-01		9.088E-01	1.476E+00	2.243E-01	0.219
RU-106	-3.027E+00		4.915E+00	8.066E+00	1.215E+00	-0.375
AG-108M	2.085E+00		7.811E-01	1.059E+00	1.136E-01	1.969
AG-110M	3.833E-01		6.194E-01	9.574E-01	1.075E-01	0.400
SN-113	8.707E-01		1.176E+00	1.359E+00	1.278E-01	0.641
TE123M	-3.167E-01		8.141E-01	9.271E-01	8.064E-02	-0.342
SB-124	5.038E-01		7.758E-01	1.202E+00	1.320E-01	0.419
I-125	-3.313E+00		1.825E+01	2.139E+01	3.134E+00	-0.155
SB-125	1.146E+00		1.483E+00	2.425E+00	2.354E-01	0.473
SB-126	-8.506E-01		1.160E+01	1.279E+01	1.375E+00	-0.067
I-129	1.943E+00		1.368E+00	2.005E+00	3.607E-01	0.969
BA-133	1.235E+01		2.067E+00	1.619E+00	2.304E-01	7.627
CS-134	3.018E+00		6.783E-01	9.910E-01	1.091E-01	3.045
CS-136	-1.038E+00		3.421E+00	5.838E+00	4.997E-01	-0.178
CS-137	2.869E-02		6.343E-01	9.669E-01	1.089E-01	0.030
LA-138	2.638E-02		5.586E-01	9.658E-01	9.925E-02	0.027
BA-140	7.785E+00		1.521E+01	2.177E+01	7.336E+00	0.358
LA-140	1.243E+01		4.193E+00	7.044E+00	7.141E-01	1.765
CE-144	6.641E+00		4.403E+00	6.495E+00	6.058E-01	1.022
PM-144	-3.331E-01		5.412E-01	9.185E-01	1.009E-01	-0.363
PM-145	4.592E+00		4.269E+00	4.172E+00	2.755E+00	1.101
PM-146	1.760E+00	+	1.369E+00	1.788E+00	1.757E-01	0.985
ND-147	3.040E+01		3.947E+01	5.762E+01	6.054E+00	0.528
EU-152	1.273E+01	+	4.374E+00	6.215E+00	7.625E-01	2.048
GD-153	1.023E+01		3.268E+00	3.379E+00	5.818E-01	3.027
EU-154	4.336E-01		1.300E+00	2.003E+00	1.903E-01	0.216
EU-156	-1.242E+01		2.466E+01	3.653E+01	8.487E+00	-0.340
HO-166M	-5.882E-01		1.044E+00	1.556E+00	1.687E-01	-0.378
HF-172	1.824E+01		4.332E+00	6.057E+00	5.765E-01	3.011
LU-172	1.209E+02	+	4.960E+01	6.100E+01	5.045E+00	1.983
LU-173	3.605E+01		5.233E+00	4.422E+00	4.952E-01	8.152
HF-175	1.868E+00		1.025E+00	1.208E+00	1.257E-01	1.546
LU-176	2.094E-01		4.493E-01	6.556E-01	7.249E-02	0.319
TA-182	4.358E+01	+	5.229E+00	5.647E+00	4.663E-01	7.718
IR-192	6.668E-01		1.404E+00	2.039E+00	2.032E-01	0.327
HG-203	6.543E+00		1.510E+00	1.670E+00	1.933E-01	3.919
BI-207	1.678E-01		5.401E-01	7.780E-01	8.387E-02	0.216
BI-210M	5.991E-01		1.173E+00	1.355E+00	1.481E-01	0.442
RA-223	3.350E+01		1.246E+01	1.811E+01	1.953E+00	1.850
TH-227	1.695E+02	+	2.061E+01	1.516E+01	1.552E+00	11.182
TH-230	5.506E+02	+	1.887E+02	2.619E+02	3.622E+01	2.102

Sample ID : 1006061-15 Acquisition date : 9-JUL-2010 10:42:44

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-231	2.033E+02		3.166E+01	3.509E+01	3.901E+00	5.792
PA-233	9.261E-01		2.717E+00	4.211E+00	9.881E-01	0.220
PA-234	2.017E+01		3.027E+00	3.599E+00	3.378E-01	5.605
AM-241	1.114E+01		2.358E+00	2.560E+00	2.574E-01	4.350
CM-243	2.346E+01	+	4.228E+00	5.392E+00	6.118E-01	4.351

Sample ID : 1006061-15 Acquisition date : 9-JUL-2010 10:42:44

Total number of lines in spectrum	122	
Number of unidentified lines	58	
Number of lines tentatively identified by NID	64	52.46%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.998E+01	1.998E+01	1.017E+01	50.89	
TL-208	1.41E+10Y	1.00	1.210E+02	1.210E+02	0.088E+02	7.31	
PB-210	22.26Y	1.00	3.690E+01	3.702E+01	1.078E+01	29.13	
PB-211	3.28E+04Y	1.00	3.095E+01	3.095E+01	1.242E+01	40.12	
BI-212	1.41E+10Y	1.00	8.911E+01	8.911E+01	1.129E+01	12.67	
PB-212	1.41E+10Y	1.00	4.402E+01	4.402E+01	0.538E+01	12.21	
BI-214	1602.00Y	1.00	7.522E+01	7.523E+01	0.520E+01	6.92	
PB-214	1602.00Y	1.00	7.516E+01	7.517E+01	0.628E+01	8.36	
RN-219	3.28E+04Y	1.00	1.298E+01	1.298E+01	0.877E+01	67.55	
RA-224	1.41E+10Y	1.00	4.865E+02	4.865E+02	0.601E+02	12.35	
RA-225	14.80D	5.78	4.618E+00	2.670E+01	1.243E+01	46.57	
RA-226	1602.00Y	1.00	2.421E+02	2.421E+02	4.440E+02	183.38	
AC-228	1.41E+10Y	1.00	1.354E+02	1.354E+02	0.082E+02	6.04	
PA-234M	4.47E+09Y	1.00	1.792E+02	1.792E+02	0.536E+02	29.89	
TH-234	4.47E+09Y	1.00	1.634E+02	1.634E+02	0.266E+02	16.29	
U-235	7.04E+08Y	1.00	1.560E+01	1.560E+01	0.757E+01	48.57	
			---	---			
Total Activity :			1.732E+03	1.754E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.09	2.455E+00	2.668E+00	0.709E+00	26.56	
CS-135	2.30E+06Y	1.00	3.508E+00	3.508E+00	3.136E+00	89.41	
AM-243	7380.00Y	1.00	9.789E+01	9.789E+01	1.723E+01	17.60	
			---	---			
Total Activity :			1.038E+02	1.041E+02			

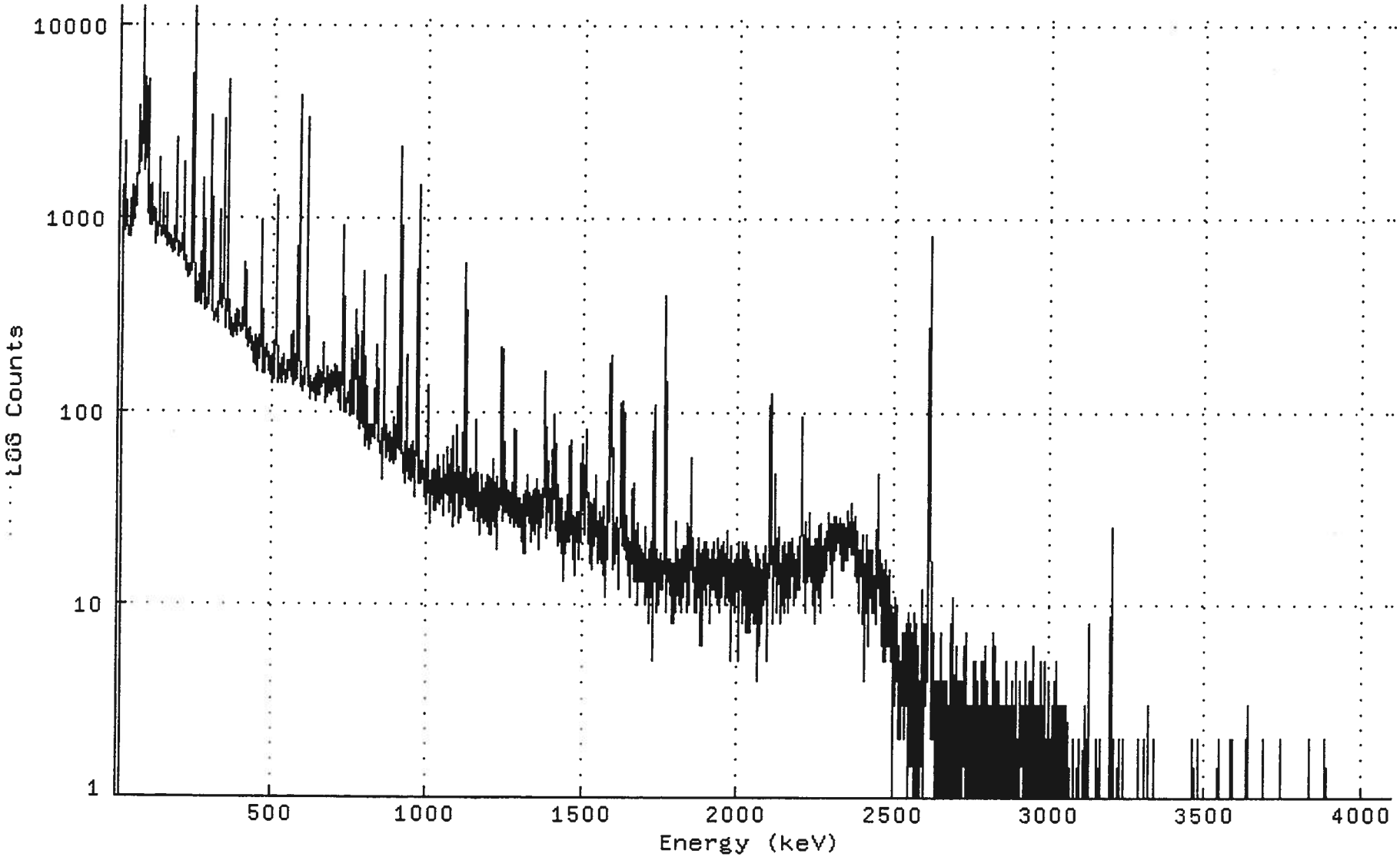
Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	5.086E+02	5.378E+02	1.341E+02	24.93	
SN-126	1.00E+05Y	1.00	5.114E+01	5.114E+01	1.228E+01	24.00	
I-131	8.04D	25.3	6.973E-01	1.763E+01	1.277E+01	72.40	
CE-139	137.66D	1.21	5.363E-01	6.477E-01	7.100E-01	109.62	
CE-141	32.50D	2.22	4.932E+00	1.097E+01	0.406E+01	36.99	
EU-155	4.96Y	1.01	5.488E+00	5.567E+00	2.082E+00	37.40	
TH-231	7.04E+08Y	1.00	2.396E+01	2.396E+01	1.067E+01	44.52	
NP-237	2.14E+06Y	1.00	1.503E+02	1.503E+02	0.353E+02	23.50	
			---	---			
Total Activity :			7.456E+02	7.980E+02			

Grand Total Activity : 2.582E+03 2.656E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606115_GE1_GAS1002_151317.CNF;1
Title :
Sample Title: S-13
Start Time: 9-JUL-2010 10:42: Sample Time: 2-JUN-2010 00:00: Energy Offset: 6.08450E-01
Real Time : 0 01:00:16.16 Sample ID : 1006061-15 Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606115_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	14	1320
17:	1603	1588	1258	2401	966	842	891	1220
25:	1145	1013	990	902	847	792	884	813
33:	824	816	778	840	816	939	1249	928
41:	878	890	876	917	1169	1448	978	966
49:	1254	1148	1149	1343	1418	1130	1217	1296
57:	1587	1613	1665	1672	1828	3547	3744	2030
65:	1800	2164	3029	2123	1966	1935	2121	2578
73:	3975	10236	6451	12646	10235	2756	2064	2199
81:	1815	1773	3098	2920	2025	4224	4722	2439
89:	3752	3158	2432	5173	4530	2022	1337	1024
97:	1106	1344	1473	1161	930	893	936	1197
105:	1488	1200	911	1140	1097	949	949	1013
113:	988	981	1085	873	832	787	719	788
121:	789	861	886	897	837	895	966	1424
129:	2000	1095	941	903	828	837	814	836
137:	794	879	806	811	870	857	1119	1335
145:	923	838	835	762	776	764	841	819
153:	996	1337	914	728	695	787	762	728
161:	716	731	811	794	689	742	721	690
169:	701	659	685	716	753	738	693	663
177:	705	705	688	721	689	786	996	921
185:	1777	2534	1041	732	739	687	698	649
193:	675	617	681	703	651	683	714	672
201:	668	674	666	683	721	795	701	982
209:	1941	1054	674	618	556	592	598	623
217:	580	553	495	545	547	545	550	557
225:	564	519	507	536	569	519	551	531
233:	565	656	1521	2509	2444	12669	11547	2453
241:	2706	2273	769	435	425	384	368	369
249:	411	399	371	446	435	436	427	509
257:	451	436	447	390	378	357	370	370
265:	371	361	474	481	905	1590	963	538
273:	417	481	434	487	969	650	413	338
281:	346	362	380	360	385	378	405	437
289:	361	362	362	525	521	1091	3316	1400
297:	480	484	669	1267	586	381	373	333
305:	311	293	296	301	313	290	296	311
313:	304	325	338	309	320	288	288	285
321:	356	345	335	400	391	356	635	1074
329:	516	398	340	439	342	358	432	453
337:	951	3223	1688	467	424	342	304	267
345:	287	291	277	370	602	687	2818	5132
353:	1308	394	364	309	285	288	308	269
361:	243	258	292	278	299	257	246	235
369:	243	274	270	279	265	284	264	280
377:	313	258	243	266	259	247	292	339
385:	284	286	330	280	310	284	256	255
393:	263	276	254	253	259	259	267	272
401:	331	343	284	293	364	283	275	306
409:	586	480	251	260	246	243	234	258
417:	213	246	245	240	228	220	232	238
425:	225	266	225	238	209	217	201	207

433:	200	205	175	178	180	180	209	241
441:	187	189	196	174	218	201	215	218
449:	159	199	192	223	245	230	210	199
457:	184	206	211	212	241	556	960	472
465:	237	179	184	156	193	189	181	177
473:	201	208	157	181	189	217	209	218
481:	203	189	184	184	169	193	197	176
489:	160	155	157	182	161	187	182	139
497:	194	147	175	151	158	165	162	184
505:	165	148	217	243	399	1012	1294	482
513:	227	201	158	186	179	139	175	167
521:	168	169	158	156	146	159	158	159
529:	144	141	160	184	172	191	158	178
537:	156	157	143	159	147	141	157	162
545:	146	172	178	173	179	164	159	166
553:	167	181	160	164	153	151	154	153
561:	172	240	254	165	151	158	170	138
569:	148	193	170	174	171	159	165	146
577:	156	154	175	248	376	1333	4297	2464
585:	439	235	202	158	135	137	138	140
593:	137	130	143	146	146	127	150	153
601:	151	153	150	136	154	176	273	878
609:	3271	2338	436	215	187	175	148	147
617:	140	143	121	135	150	117	126	142
625:	138	141	131	139	139	129	148	144
633:	138	125	131	138	152	146	143	149
641:	123	114	142	131	167	139	121	134
649:	161	133	132	149	123	144	150	147
657:	157	138	138	134	139	150	154	143
665:	214	220	146	128	141	111	126	132
673:	147	125	163	168	143	118	154	147
681:	124	136	137	150	152	123	160	147
689:	162	157	134	128	141	151	158	134
697:	154	142	142	133	142	156	172	165
705:	133	152	134	129	143	140	121	158
713:	137	136	123	116	101	123	143	158
721:	137	128	140	151	174	338	895	790
729:	201	123	125	131	99	131	102	112
737:	103	108	99	108	125	114	122	120
745:	112	117	116	94	107	119	105	106
753:	142	132	206	195	144	124	98	108
761:	96	119	179	158	126	170	200	332
769:	301	156	145	245	195	124	94	108
777:	90	93	81	80	83	150	146	103
785:	198	252	132	90	87	85	83	99
793:	102	289	533	327	112	77	87	79
801:	65	82	104	85	92	129	134	73
809:	65	62	71	72	85	66	80	84
817:	67	79	82	77	79	84	83	82
825:	82	73	75	72	88	98	130	112
833:	86	93	174	216	121	109	126	163
841:	143	94	75	73	68	68	63	60
849:	69	64	67	63	81	60	44	77
857:	63	77	103	397	505	166	89	81
865:	69	58	73	57	61	70	61	76
873:	65	67	68	69	61	62	55	68
881:	68	77	56	70	72	57	58	71
889:	62	53	69	89	93	93	71	60
897:	85	69	56	68	81	64	80	134
905:	114	80	62	115	206	656	2333	2017

913:	406	136	98	78	61	63	56	57
921:	56	55	60	47	61	50	50	68
929:	55	42	55	55	111	193	148	69
937:	52	44	46	51	62	50	55	66
945:	57	49	53	43	56	60	55	57
953:	68	45	58	36	50	56	55	61
961:	51	66	107	272	546	344	202	564
969:	1486	947	207	89	63	42	54	53
977:	46	43	45	42	50	44	54	46
985:	45	51	48	50	48	39	41	39
993:	33	49	61	48	47	49	38	68
1001:	136	106	51	50	38	40	37	40
1009:	26	43	42	37	49	46	38	48
1017:	45	44	46	35	31	43	50	48
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1033:	58	52	34	37	33	33	51	47
1041:	37	43	35	44	37	38	38	43
1049:	46	29	42	59	47	45	46	38
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1065:	64	63	41	41	52	40	37	30
1073:	36	42	38	38	53	53	73	44
1081:	40	31	35	25	38	29	47	39
1089:	30	42	38	55	51	85	73	61
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1105:	28	33	47	37	29	53	77	50
1113:	42	35	33	39	67	86	176	477
1121:	583	198	79	56	48	41	33	31
1129:	36	39	31	33	41	47	50	38
1137:	35	31	38	42	31	35	46	36
1145:	31	36	27	35	38	35	30	46
1153:	50	58	81	90	51	32	47	34
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1169:	26	30	33	33	32	46	28	42
1177:	34	40	26	38	39	36	41	28
1185:	27	36	42	29	36	25	34	27
1193:	46	32	35	33	45	23	45	42
1201:	33	27	36	39	38	23	36	56
1209:	47	28	27	39	39	33	25	42
1217:	36	35	37	32	32	26	41	19
1225:	45	34	35	34	40	33	31	34
1233:	35	34	33	44	86	212	208	88
1241:	27	29	37	37	57	46	69	49
1249:	35	30	34	30	41	43	34	34
1257:	30	29	30	31	37	39	35	38
1265:	36	29	31	26	33	33	35	42
1273:	28	32	41	40	25	38	28	51
1281:	81	77	35	39	32	26	35	28
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1297:	33	25	35	30	31	33	26	21
1305:	29	31	25	30	36	37	18	39
1313:	37	29	30	18	27	31	46	29
1321:	41	36	38	29	29	29	26	32
1329:	38	33	33	23	26	21	30	36
1337:	32	39	36	24	35	29	34	23
1345:	36	39	40	26	34	30	28	26
1353:	31	44	34	29	19	33	32	32
1361:	37	25	28	27	36	26	31	34
1369:	28	31	34	40	31	41	49	48
1377:	98	161	134	51	36	46	22	27
1385:	48	54	50	31	31	33	30	37

1393:	32	34	24	40	32	27	26	41
1401:	53	63	56	40	35	36	44	88
1409:	96	47	33	37	26	24	26	38
1417:	41	22	24	24	20	32	27	21
1425:	35	21	27	21	23	18	35	30
1433:	31	24	26	19	26	13	23	27
1441:	27	18	25	20	30	25	31	21
1449:	29	24	23	33	42	23	27	21
1457:	23	32	61	71	54	43	45	33
1465:	27	19	29	23	17	20	24	26
1473:	28	14	24	17	22	24	26	21
1481:	28	30	25	30	20	21	25	17
1489:	26	22	21	22	28	29	43	67
1497:	64	36	31	33	48	40	50	27
1505:	29	27	23	39	71	80	46	36
1513:	49	51	29	28	21	29	26	25
1521:	16	23	20	25	34	22	25	15
1529:	33	26	17	24	22	20	25	26
1537:	30	27	46	27	29	24	32	27
1545:	29	17	24	27	26	26	16	24
1553:	18	17	24	23	30	27	17	23
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1569:	22	25	11	23	22	15	22	24
1577:	17	17	24	42	43	37	36	47
1585:	28	27	52	164	194	125	59	86
1593:	110	100	41	23	15	21	32	27
1601:	21	23	18	26	16	19	22	22
1609:	28	19	18	20	19	12	16	14
1617:	15	22	28	48	111	67	36	26
1625:	37	30	22	20	27	62	113	88
1633:	31	24	20	19	27	29	29	26
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1673:	17	10	15	17	18	21	26	22
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1689:	17	13	15	13	13	13	16	16
1697:	18	17	10	11	12	20	21	25
1705:	11	16	12	17	14	12	13	19
1713:	18	12	8	16	19	21	14	21
1721:	12	16	11	19	17	9	5	24
1729:	58	108	82	30	14	18	13	15
1737:	15	9	19	18	9	12	17	10
1745:	13	13	15	17	12	18	15	16
1753:	18	15	14	14	12	15	13	15
1761:	17	42	67	244	403	292	72	27
1769:	27	12	9	13	13	17	13	16
1777:	15	17	15	17	14	13	15	15
1785:	8	12	10	13	11	16	8	12
1793:	16	13	12	15	10	21	27	16
1801:	13	9	13	17	15	18	17	19
1809:	14	10	12	15	17	10	15	13
1817:	11	19	13	9	19	17	13	15
1825:	11	13	20	14	13	20	18	17
1833:	19	15	20	9	12	26	19	25
1841:	13	17	10	17	19	26	43	57
1849:	51	25	19	15	16	14	15	13
1857:	16	22	9	15	12	14	15	13
1865:	18	13	19	19	11	9	15	22

1873:	19	18	11	14	10	6	18	17
1881:	13	17	6	11	16	16	17	19
1889:	13	12	17	17	14	21	20	11
1897:	18	21	12	12	10	16	14	16
1905:	19	15	14	16	8	13	12	10
1913:	15	19	12	13	15	14	12	14
1921:	16	12	21	21	17	17	15	12
1929:	14	11	13	15	13	22	13	19
1937:	10	19	18	15	16	12	9	17
1945:	11	19	13	13	20	13	21	19
1953:	14	18	17	20	16	10	18	17
1961:	16	10	14	14	11	24	21	13
1969:	15	14	11	17	14	13	8	13
1977:	5	13	20	8	16	11	11	16
1985:	11	10	14	17	9	13	9	10
1993:	14	13	18	12	17	12	13	12
2001:	5	13	15	21	16	17	15	14
2009:	17	12	13	15	11	20	8	18
2017:	21	19	12	11	11	17	10	15
2025:	7	11	16	17	21	15	14	19
2033:	17	14	15	7	7	10	12	13
2041:	16	17	14	13	11	10	9	16
2049:	15	13	11	14	8	14	9	20
2057:	8	10	13	15	14	14	13	13
2065:	4	18	13	14	12	6	17	12
2073:	13	10	13	15	13	8	10	18
2081:	13	16	12	18	10	11	17	17
2089:	20	11	20	13	6	14	5	15
2097:	12	15	15	19	26	48	97	126
2105:	106	59	32	16	19	13	20	17
2113:	13	8	17	14	14	28	47	33
2121:	20	15	19	9	20	15	12	19
2129:	25	17	14	13	16	16	10	16
2137:	13	12	14	8	17	20	16	10
2145:	14	19	13	9	16	14	16	21
2153:	13	18	15	11	14	18	15	9
2161:	20	13	17	21	15	11	21	12
2169:	17	21	19	15	18	16	14	22
2177:	17	13	10	14	12	14	18	11
2185:	17	11	14	15	15	15	18	15
2193:	12	20	17	13	12	15	15	22
2201:	19	27	50	83	95	64	36	25
2209:	21	23	13	15	15	16	15	27
2217:	15	9	11	18	19	15	15	22
2225:	13	17	21	21	15	30	14	16
2233:	18	19	20	19	13	16	19	13
2241:	20	20	16	12	8	15	11	22
2249:	16	18	11	15	22	12	13	13
2257:	13	11	18	13	17	16	25	26
2265:	20	23	21	24	9	18	19	15
2273:	16	18	20	18	22	20	14	17
2281:	19	20	24	16	16	15	20	19
2289:	23	23	24	30	19	22	24	21
2297:	22	26	16	21	20	15	21	11
2305:	26	21	17	19	29	24	17	19
2313:	19	26	20	19	28	29	24	21
2321:	22	21	22	23	19	24	28	18
2329:	21	24	15	18	26	18	19	25
2337:	22	26	16	23	15	23	24	17
2345:	21	23	19	22	25	17	20	28

2353:	20	31	24	24	23	20	27	20
2361:	21	23	32	34	18	24	22	18
2369:	18	27	18	23	20	23	25	14
2377:	24	23	25	29	20	16	17	22
2385:	23	13	14	17	19	9	10	14
2393:	15	14	18	19	19	14	19	18
2401:	11	23	12	15	4	13	14	15
2409:	15	16	9	9	13	10	23	16
2417:	12	19	12	15	13	9	6	19
2425:	15	14	16	11	13	19	14	18
2433:	17	9	18	9	13	12	14	9
2441:	14	12	8	10	10	15	23	27
2449:	47	21	15	16	13	11	15	18
2457:	10	14	19	12	11	13	16	8
2465:	6	10	15	5	5	11	6	9
2473:	14	12	10	17	10	5	11	14
2481:	10	6	11	8	7	11	9	6
2489:	13	15	5	7	7	6	10	6
2497:	6	1	5	4	9	4	3	5
2505:	7	11	8	8	10	7	5	4
2513:	6	9	4	5	6	3	5	5
2521:	2	4	3	2	5	3	3	5
2529:	3	7	4	7	3	4	6	2
2537:	3	4	7	3	6	3	4	8
2545:	3	4	1	9	3	5	1	2
2553:	7	4	5	4	8	3	7	4
2561:	3	2	2	2	1	5	1	5
2569:	9	4	8	5	8	3	3	1
2577:	1	5	4	6	3	3	2	3
2585:	1	3	4	1	2	12	2	3
2593:	4	4	5	8	1	3	7	4
2601:	3	5	5	8	6	5	3	5
2609:	6	11	18	43	154	487	811	809
2617:	352	116	30	9	6	2	3	5
2625:	3	2	4	3	7	3	4	2
2633:	4	3	3	1	1	1	4	2
2641:	4	3	1	3	2	2	1	4
2649:	4	4	1	3	4	3	1	7
2657:	1	1	3	3	3	4	0	2
2665:	1	4	0	3	1	1	3	2
2673:	4	2	2	1	2	3	2	3
2681:	1	3	1	3	2	3	8	2
2689:	5	11	4	1	3	3	3	4
2697:	0	2	3	6	3	5	2	1
2705:	0	2	4	3	3	4	0	2
2713:	4	3	4	2	1	0	2	1
2721:	4	3	1	2	5	5	4	6
2729:	3	4	1	7	2	3	3	3
2737:	1	0	0	2	3	3	3	0
2745:	3	3	1	2	2	3	0	2
2753:	2	2	1	2	5	2	2	5
2761:	5	1	0	2	3	0	2	2
2769:	1	0	4	1	3	3	0	0
2777:	2	3	0	1	2	1	2	2
2785:	5	1	3	1	5	1	1	2
2793:	6	4	0	2	2	2	2	1
2801:	2	1	4	1	2	3	2	1
2809:	2	1	3	1	2	2	1	2
2817:	7	3	3	0	2	4	1	6
2825:	1	4	1	4	0	4	3	3

2833:	2	4	1	1	4	0	2	0
2841:	3	0	1	3	2	3	1	1
2849:	3	3	1	2	3	0	0	0
2857:	2	2	1	2	3	2	1	5
2865:	3	3	0	1	3	2	0	3
2873:	3	0	0	2	0	1	4	1
2881:	2	1	2	2	3	3	3	3
2889:	0	3	2	4	4	5	1	2
2897:	1	2	1	1	2	0	3	4
2905:	4	3	1	0	3	2	2	3
2913:	3	2	0	1	0	1	3	1
2921:	2	4	5	3	1	1	0	0
2929:	1	1	2	3	3	2	4	1
2937:	0	2	1	0	1	2	2	4
2945:	2	2	6	2	2	1	0	0
2953:	1	3	1	2	1	0	1	1
2961:	3	0	1	2	1	1	3	3
2969:	0	0	0	1	5	0	2	3
2977:	2	0	0	2	1	0	5	1
2985:	2	1	1	2	1	0	1	0
2993:	0	0	3	4	0	2	1	0
3001:	1	0	0	1	0	2	0	3
3009:	2	3	2	1	4	1	0	2
3017:	1	1	5	1	1	0	2	3
3025:	0	3	1	1	1	1	1	0
3033:	3	1	2	0	1	0	3	1
3041:	2	1	1	3	0	3	1	0
3049:	2	2	0	0	0	3	3	2
3057:	1	0	0	0	2	0	1	1
3065:	0	1	1	0	1	1	1	0
3073:	0	1	0	0	0	2	0	0
3081:	0	1	1	1	0	1	0	1
3089:	0	0	0	1	2	2	0	1
3097:	0	0	1	0	0	0	0	0
3105:	0	1	0	0	0	0	3	1
3113:	0	0	0	0	1	1	0	0
3121:	0	2	2	2	6	8	4	2
3129:	0	1	0	0	1	1	1	0
3137:	1	1	0	0	1	0	1	1
3145:	0	1	0	0	0	0	0	0
3153:	2	0	1	0	0	1	1	0
3161:	0	2	0	0	1	0	0	0
3169:	0	0	0	1	0	1	1	0
3177:	0	0	0	0	1	1	0	1
3185:	1	0	0	1	1	0	0	1
3193:	1	0	0	5	15	25	22	9
3201:	6	0	0	1	1	2	1	1
3209:	0	1	0	1	0	1	0	1
3217:	0	1	0	0	0	2	1	0
3225:	0	0	0	1	1	0	0	1
3233:	0	0	0	0	0	2	0	0
3241:	0	1	1	0	0	1	0	0
3249:	0	0	0	0	1	0	0	0
3257:	0	1	0	0	0	1	0	0
3265:	1	0	0	0	0	0	0	0
3273:	1	0	0	1	1	0	0	0
3281:	0	0	0	1	2	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	1	0	0
3305:	2	0	1	1	0	0	0	1

3313:	0	0	0	3	0	0	1	0
3321:	1	0	0	1	0	0	0	1
3329:	1	0	0	0	0	2	0	0
3337:	0	0	0	0	0	0	0	1
3345:	0	0	0	0	0	0	0	0
3353:	0	1	0	1	0	0	0	0
3361:	0	0	0	0	0	0	0	1
3369:	0	0	0	0	0	1	1	0
3377:	1	1	0	0	0	0	1	1
3385:	0	0	0	0	0	0	0	0
3393:	1	0	0	0	0	0	0	0
3401:	0	0	0	0	0	1	0	0
3409:	1	0	1	0	0	0	1	0
3417:	0	0	1	0	0	0	0	1
3425:	0	1	0	0	1	0	0	1
3433:	0	0	0	0	1	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	0	0	1	0	0	0	0	0
3457:	1	0	0	2	0	0	0	1
3465:	0	0	0	0	0	0	0	0
3473:	1	2	0	0	1	0	1	1
3481:	0	0	0	1	1	0	0	0
3489:	0	0	1	0	0	1	0	0
3497:	0	0	0	0	0	1	0	0
3505:	0	0	1	0	0	0	0	0
3513:	0	0	0	1	0	0	0	0
3521:	0	0	1	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	1	0	2	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	0
3561:	1	0	0	0	0	0	0	0
3569:	0	0	0	0	0	0	0	1
3577:	0	0	2	0	0	0	0	0
3585:	2	0	0	0	0	1	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	1	0	1
3609:	0	0	0	1	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	1	0	2
3633:	0	0	3	0	0	0	0	0
3641:	0	0	0	0	0	0	0	0
3649:	0	0	0	0	1	0	0	0
3657:	1	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	1	0
3673:	0	0	1	0	0	0	0	0
3681:	1	0	0	0	0	2	1	0
3689:	1	1	0	0	0	0	0	0
3697:	0	1	0	1	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	1
3721:	0	0	1	0	0	0	1	0
3729:	0	0	0	0	0	0	1	0
3737:	0	0	2	0	0	0	0	0
3745:	0	0	0	0	0	0	1	0
3753:	0	0	0	0	0	1	0	0
3761:	0	0	0	0	0	1	0	0
3769:	0	0	0	0	0	0	1	0
3777:	0	0	0	0	0	0	1	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	0	0	0	0	1
3801:	1	0	0	0	0	0	1	1
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	1	0	0	0
3825:	0	0	1	0	1	0	0	0
3833:	0	2	1	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	1	1	0
3857:	0	0	0	0	0	0	0	0
3865:	1	1	1	0	0	0	0	0
3873:	0	0	0	0	0	0	1	0
3881:	0	0	0	2	0	0	0	0
3889:	0	0	0	0	0	1	0	1
3897:	0	0	0	0	0	0	0	0
3905:	0	0	0	0	0	0	0	0
3913:	0	0	0	0	1	0	1	1
3921:	0	0	0	0	1	0	0	1
3929:	0	0	0	0	1	0	0	0
3937:	0	1	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	1	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	1	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	1	1	1	0	0	0	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	1	0	0	0	0	0	0
4041:	0	0	0	0	0	0	0	0
4049:	0	0	0	0	0	0	0	0
4057:	1	0	0	1	1	0	0	0
4065:	0	0	0	0	0	0	1	0
4073:	1	0	0	0	0	0	0	1
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

Sample ID : 1006061-16 Acquisition date : 9-JUL-2010 10:43:18

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VAX/VMS Peak Search Report Generated 9-JUL-2010 11:43:37.57

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606116_GE4_GAS1002_151318.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-15
Deposition Date :
Sample Date : 2-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 10:43:18.
Sample ID : 1006061-16 Sample Quantity : 2.61000E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:01.08 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.84*	66	328	1.58	63.83	61	6	94.1		TH-234
6	69.35	86	215	2.64	69.34	67	14	50.1	4.90E+00	
6	76.49*	553	473	3.37	76.47	67	14	17.4		
0	91.39*	397	669	2.34	91.37	84	14	29.8		
0	129.49	56	241	1.86	129.45	125	9	104.0		
2	182.44	39	54	1.79	182.38	181	10	57.1	1.73E+00	
2	186.24*	110	130	2.43	186.18	181	10	41.7		RA-226
3	239.13*	364	91	2.45	239.05	233	14	14.0	2.91E+00	PB-212
3	241.78	114	91	2.72	241.69	233	14	47.5		RA-224
0	270.54	45	79	2.97	270.44	267	7	71.8		
0	296.68*	85	126	2.40	296.57	292	12	56.8		PB-214
0	315.47	25	73	3.05	315.35	312	9	126.4		
0	352.48*	97	83	2.13	352.35	346	11	42.0		PB-214
0	453.09	19	20	1.85	452.91	450	6	90.1		
0	464.37	28	62	1.74	464.19	460	9	108.0		
0	584.42*	79	76	1.93	584.20	579	11	48.2		TL-208
0	610.37*	83	31	2.24	610.13	605	11	35.2		
0	728.03	34	24	2.31	727.74	723	10	65.5		BI-212
0	795.26	21	16	2.00	794.94	791	10	80.5		
7	855.47	11	7	2.70	855.13	853	11	85.7	1.93E+00	
7	860.92	19	9	3.10	860.58	853	11	73.0		TL-208
0	912.25	53	31	2.23	911.88	907	12	51.0		AC-228
0	970.03	18	19	1.96	969.65	967	7	94.7		AC-228
0	1168.66	8	6	2.63	1168.19	1164	7	123.7		
0	1180.11	13	3	3.82	1179.64	1176	7	73.4		
0	1199.27	14	7	1.31	1198.79	1192	14	96.4		
0	1228.55	9	5	2.63	1228.06	1224	9	113.1		
0	1239.13	9	5	1.83	1238.63	1236	6	108.3		
0	1262.57	8	3	1.83	1262.06	1259	6	98.4		
0	1356.66	9	2	2.91	1356.12	1351	9	90.9		
0	1389.61	9	5	2.54	1389.05	1383	11	116.2		
0	1461.42*	49	5	1.60	1460.83	1456	9	32.8		K-40
0	1566.92	14	0	1.32	1566.29	1562	9	53.5		
0	1593.51	13	8	2.67	1592.87	1588	8	91.9		
0	1622.74	6	4	2.76	1622.08	1616	8	143.8		
0	1805.95	9	0	2.66	1805.22	1801	7	66.7		

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Sample ID : 1006061-16 Acquisition date : 9-JUL-2010 10:43:18

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	2354.82	7	0	2.98	2353.86	2350	7	75.6		
0	2615.44*	33	5	3.95	2614.37	2610	9	42.8		TL-208

Sample ID : 1006061-16 Acquisition date : 9-JUL-2010 10:43:18

Total number of lines in spectrum	38	
Number of unidentified lines	17	
Number of lines tentatively identified by NID	21	55.26%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	7.948E+00	7.948E+00	2.744E+00	34.52	
TL-208	1.41E+10Y	1.00	2.112E+00	2.112E+00	0.656E+00	31.07	
BI-212	1.41E+10Y	1.00	2.611E+00	2.611E+00	1.739E+00	66.61	
PB-212	1.41E+10Y	1.00	2.441E+00	2.441E+00	0.471E+00	19.29	
PB-214	1602.00Y	1.00	1.234E+00	1.234E+00	0.445E+00	36.07	
RA-224	1.41E+10Y	1.00	8.730E+00	8.730E+00	4.306E+00	49.32	
RA-226	1602.00Y	1.00	8.199E+00	8.199E+00	15.41E+00	187.93	
AC-228	1.41E+10Y	1.00	1.809E+00	1.809E+00	0.849E+00	46.95	
TH-234	4.47E+09Y	1.00	3.203E+00	3.203E+00	3.027E+00	94.50	
			---	---			
	Total Activity :		3.829E+01	3.829E+01			
	Grand Total Activity :		3.829E+01	3.829E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Sample ID : 1006061-16
Acquisition date : 9-JUL-2010 10:43:18

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	1.677E-01	7.948E+00	7.948E+00	34.52	OK
Final Mean for 1 Valid Peaks = 7.948E+00+/- 2.744E+00 (34.52%)							
TL-208	583.14	30.22*	3.936E-01	1.920E+00	1.920E+00	50.14	OK
	860.37	4.48	2.647E-01	4.576E+00	4.576E+00	73.78	OK
	2614.66	35.85	1.255E-01	2.104E+00	2.104E+00	44.20	OK
Final Mean for 3 Valid Peaks = 2.112E+00+/- 6.561E-01 (31.07%)							
BI-212	727.17	11.80*	3.131E-01	2.611E+00	2.611E+00	66.61	OK
	1620.62	2.75	1.562E-01	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 2.611E+00+/- 1.739E+00 (66.61%)							
PB-212	238.63	44.60*	9.611E-01	2.441E+00	2.441E+00	19.29	OK
	300.09	3.41	7.792E-01	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 2.441E+00+/- 4.709E-01 (19.29%)							
PB-214	295.21	19.19	7.915E-01	1.615E+00	1.615E+00	58.95	OK
	351.92	37.19*	6.661E-01	1.128E+00	1.128E+00	44.66	OK
Final Mean for 2 Valid Peaks = 1.234E+00+/- 4.451E-01 (36.07%)							
RA-224	240.98	3.95*	9.529E-01	8.730E+00	8.730E+00	49.32	OK
Final Mean for 1 Valid Peaks = 8.730E+00+/- 4.306E+00 (49.32%)							
RA-226	186.21	3.28*	1.172E+00	8.199E+00	8.199E+00	187.93	OK
Final Mean for 1 Valid Peaks = 8.199E+00+/- 1.541E+01 (187.93%)							
AC-228	338.32	11.40	6.929E-01	----- Line Not Found		-----	Absent
	911.07	27.70*	2.505E-01	2.200E+00	2.200E+00	52.03	OK
	969.11	16.60	2.363E-01	1.330E+00	1.330E+00	95.28	OK
Final Mean for 2 Valid Peaks = 1.809E+00+/- 8.494E-01 (46.95%)							
TH-234	63.29	3.80*	1.551E+00	3.203E+00	3.203E+00	94.50	OK
Final Mean for 1 Valid Peaks = 3.203E+00+/- 3.027E+00 (94.50%)							

Flag: "*" = Keyline

---- Identified Nuclides --

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	7.948E+00	2.744E+00	1.690E+00	1.673E-01	4.701
TL-208	2.112E+00	6.561E-01	6.693E-01	8.931E-02	3.156
BI-212	2.611E+00	1.739E+00	2.103E+00	2.439E-01	1.242
PB-212	2.441E+00	4.709E-01	3.365E-01	4.259E-02	7.254
PB-214	1.234E+00	4.451E-01	4.156E-01	6.067E-02	2.970
RA-224	8.730E+00	4.306E+00	3.834E+00	4.907E-01	2.277
RA-226	8.199E+00	1.541E+01	4.251E+00	7.787E+00	1.929
AC-228	1.809E+00	8.494E-01	9.972E-01	9.578E-02	1.814
TH-234	3.203E+00	3.027E+00	4.100E+00	3.105E-01	0.781

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-7.080E-02		1.729E+00	3.021E+00	4.237E-01	-0.023
NA-22	-7.784E-03		1.728E-01	3.308E-01	3.128E-02	-0.024
AL-26	7.789E-02		1.929E-01	3.678E-01	3.340E-02	0.212
TI-44	1.659E-01	+	8.444E-02	1.774E-01	1.397E-02	0.935
SC-46	1.017E-01		1.668E-01	3.507E-01	3.416E-02	0.290
V-48	-2.336E-02		5.573E-01	1.105E+00	1.063E-01	-0.021
CR-51	-7.483E-01		2.567E+00	3.859E+00	5.922E-01	-0.194
MN-54	-3.914E-02		1.433E-01	2.461E-01	2.598E-02	-0.159
CO-56	9.194E-02		2.095E-01	3.812E-01	3.963E-02	0.241
CO-57	-7.050E-02		1.036E-01	1.522E-01	1.569E-02	-0.463
CO-58	1.316E-01		1.971E-01	3.862E-01	4.199E-02	0.341
FE-59	-3.178E-01		4.495E-01	7.732E-01	7.750E-02	-0.411
CO-60	1.317E-02		1.722E-01	2.341E-01	2.123E-02	0.056
ZN-65	4.091E-03		3.730E-01	7.118E-01	6.638E-02	0.006
SE-75	1.292E-01		1.916E-01	3.165E-01	4.532E-02	0.408
RB-82	-5.752E-01		3.268E+00	5.614E+00	6.297E-01	-0.102
RB-83	-6.469E-02		3.584E-01	6.147E-01	1.173E-01	-0.105
KR-85	4.520E+01		3.902E+01	7.167E+01	1.000E+01	0.631
SR-85	2.930E-01		2.529E-01	4.646E-01	6.485E-02	0.631
Y-88	-3.083E-02		1.480E-01	2.961E-01	2.664E-02	-0.104
NB-93M	1.720E+01		9.462E+00	1.002E+01	4.661E+00	1.716
NB-94	2.363E-02		1.345E-01	2.494E-01	2.502E-02	0.095
NB-95	-1.705E-01		3.104E-01	5.042E-01	5.708E-02	-0.338
ZR-95	-5.119E-02		3.913E-01	6.793E-01	8.195E-02	-0.075
RU-103	1.947E-01		2.403E-01	4.553E-01	8.178E-02	0.428
RU-106	1.194E+00		1.352E+00	2.555E+00	4.165E-01	0.468
AG-108M	-6.770E-02		1.919E-01	2.807E-01	3.263E-02	-0.241
CD-109	6.837E+00		2.796E+00	4.972E+00	5.625E-01	1.375
AG-110M	-1.257E-01		1.429E-01	2.194E-01	2.622E-02	-0.573
SN-113	-3.542E-02		1.916E-01	3.292E-01	4.512E-02	-0.108
TE123M	-6.021E-02		1.226E-01	2.053E-01	1.863E-02	-0.293
SB-124	1.501E-01		2.356E-01	4.007E-01	5.230E-02	0.375
I-125	-8.088E-01		2.600E+00	4.473E+00	4.943E-01	-0.181
SB-125	3.556E-01		3.758E-01	7.094E-01	9.901E-02	0.501

Sample ID : 1006061-16 Acquisition date : 9-JUL-2010 10:43:18

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SB-126	-1.321E+00		2.638E+00	3.745E+00	4.359E-01	-0.353
SN-126	6.422E-01		2.623E-01	4.717E-01	4.526E-02	1.362
I-129	1.111E-01		2.537E-01	4.506E-01	6.298E-02	0.247
I-131	-4.406E-01		3.199E+00	5.495E+00	7.869E-01	-0.080
BA-133	5.138E-02		2.007E-01	3.183E-01	5.611E-02	0.161
CS-134	-1.905E-02		1.682E-01	2.568E-01	3.347E-02	-0.074
CS-135	1.481E-01		6.425E-01	1.013E+00	1.471E-01	0.146
CS-136	-1.365E+00		1.127E+00	1.705E+00	1.666E-01	-0.800
CS-137	-6.534E-02		1.527E-01	2.542E-01	3.017E-02	-0.257
LA-138	-8.797E-03		2.166E-01	4.281E-01	4.145E-02	-0.021
CE-139	1.254E-01		1.237E-01	2.230E-01	1.962E-02	0.563
BA-140	-1.289E+00		3.500E+00	5.850E+00	2.039E+00	-0.220
LA-140	6.302E-01		1.414E+00	2.733E+00	2.612E-01	0.231
CE-141	2.462E-01		3.776E-01	6.593E-01	1.807E-01	0.373
CE-144	3.233E-01		8.121E-01	1.290E+00	1.283E-01	0.251
PM-144	3.351E-02		1.574E-01	2.834E-01	3.335E-02	0.118
PM-145	-4.521E-01		5.801E-01	8.340E-01	5.452E-01	-0.542
PM-146	2.654E-01	+	2.422E-01	4.570E-01	6.390E-02	0.581
ND-147	-2.407E+00		9.398E+00	1.604E+01	2.224E+00	-0.150
EU-152	9.753E-02		7.688E-01	1.633E+00	1.923E-01	0.060
GD-153	-4.630E-01		3.972E-01	6.076E-01	5.973E-02	-0.762
EU-154	-1.755E-02		4.779E-01	9.157E-01	8.659E-02	-0.019
EU-155	6.819E-01		3.175E-01	5.696E-01	5.403E-02	1.197
EU-156	-1.082E-01		8.230E+00	1.449E+01	3.445E+00	-0.007
HO-166M	-3.593E-01		2.776E-01	3.936E-01	4.600E-02	-0.913
HF-172	5.838E-01		7.054E-01	1.152E+00	1.173E-01	0.507
LU-172	6.525E-01		9.245E+00	1.866E+01	1.752E+00	0.035
LU-173	4.080E-01		5.437E-01	8.872E-01	1.311E-01	0.460
HF-175	-6.026E-01		2.581E-01	2.725E-01	4.022E-02	-2.211
LU-176	8.771E-02		1.185E-01	1.655E-01	2.514E-02	0.530
TA-182	4.153E-01		6.795E-01	1.368E+00	1.271E-01	0.304
IR-192	-8.834E-02		3.862E-01	5.817E-01	8.154E-02	-0.152
HG-203	3.583E-02		2.273E-01	3.788E-01	5.829E-02	0.095
BI-207	-4.116E-02		1.247E-01	2.141E-01	2.893E-02	-0.192
BI-210M	1.604E-01		2.089E-01	3.465E-01	4.890E-02	0.463
PB-210	-1.043E+00		2.373E+00	4.098E+00	3.484E-01	-0.254
PB-211	1.969E+00		3.593E+00	6.574E+00	8.986E-01	0.300
BI-214	1.364E+00	+	5.145E-01	8.131E-01	1.052E-01	1.678
RN-219	-1.239E+00		1.664E+00	2.677E+00	3.652E-01	-0.463
RA-223	-2.513E+00		2.876E+00	3.975E+00	5.978E-01	-0.632
RA-225	1.690E+00		1.811E+00	3.277E+00	3.179E-01	0.516
TH-227	4.301E+00		1.149E+00	2.043E+00	2.553E-01	2.106
TH-230	2.568E+01		3.502E+01	4.517E+01	3.549E+00	0.569
PA-231	2.774E+00		4.608E+00	7.534E+00	1.146E+00	0.368
TH-231	-1.148E-01		1.363E+00	2.363E+00	4.214E-01	-0.049
PA-233	2.585E-01		6.491E-01	1.054E+00	2.707E-01	0.245
PA-234	4.776E-01		4.110E-01	6.775E-01	6.790E-02	0.705
PA-234M	1.487E+01		1.607E+01	3.433E+01	3.295E+00	0.433

Sample ID : 1006061-16 Acquisition date : 9-JUL-2010 10:43:18

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
U-235	4.619E-01		7.611E-01	1.341E+00	2.416E-01	0.345
NP-237	1.649E+00		7.676E-01	1.377E+00	1.306E-01	1.197
AM-241	2.428E-01		2.699E-01	4.369E-01	3.217E-02	0.556
AM-243	8.019E-01		1.936E-01	3.404E-01	2.858E-02	2.355
CM-243	5.783E-01		7.548E-01	1.240E+00	1.878E-01	0.466

Summary of Nuclide Activity
Sample ID : 1006061-16

Acquisition date : 9-JUL-2010 10:43:18

Total number of lines in spectrum	38	
Number of unidentified lines	17	
Number of lines tentatively identified by NID	21	55.26%

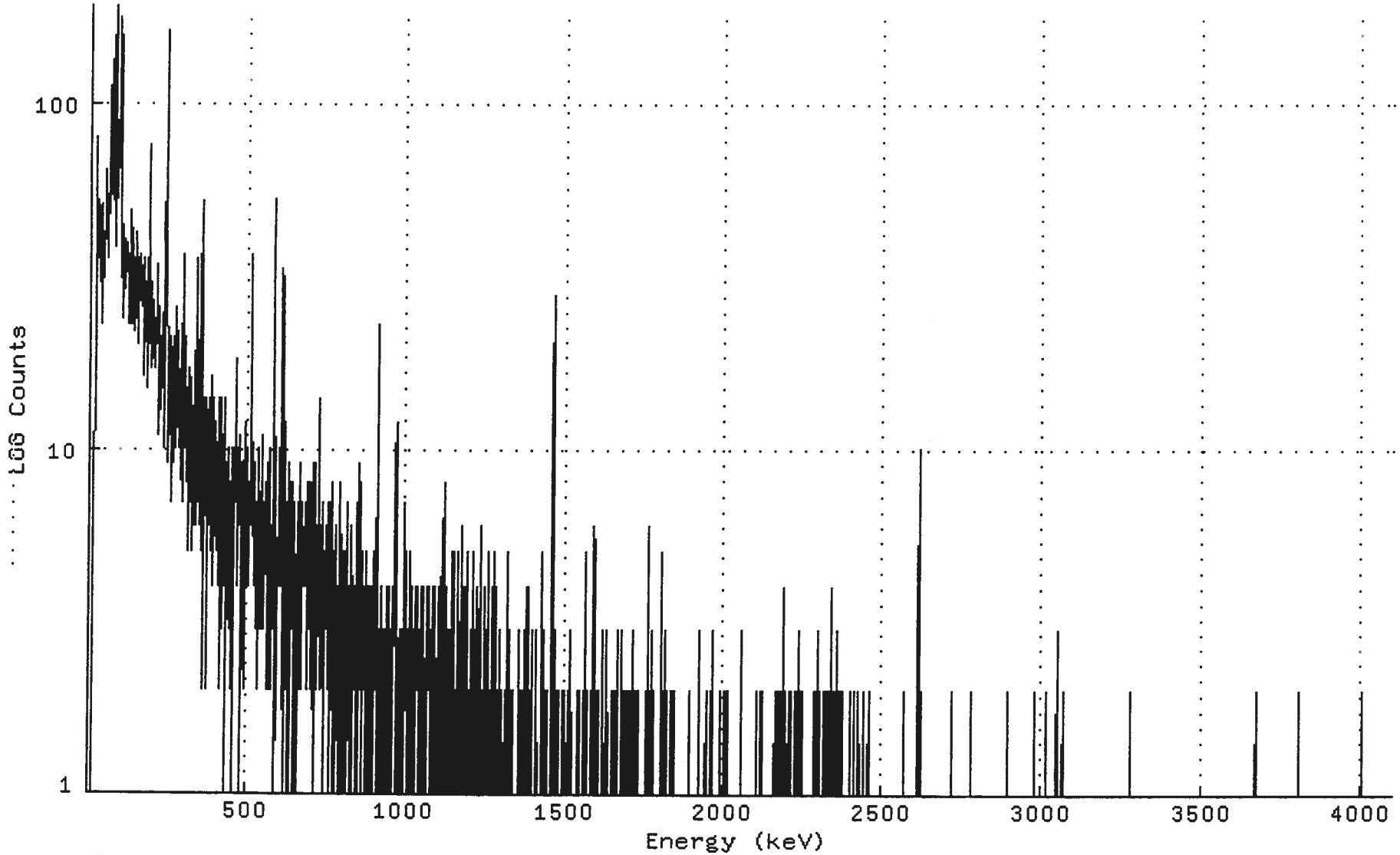
Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	7.948E+00	7.948E+00	2.744E+00	34.52	
TL-208	1.41E+10Y	1.00	2.112E+00	2.112E+00	0.656E+00	31.07	
BI-212	1.41E+10Y	1.00	2.611E+00	2.611E+00	1.739E+00	66.61	
PB-212	1.41E+10Y	1.00	2.441E+00	2.441E+00	0.471E+00	19.29	
PB-214	1602.00Y	1.00	1.234E+00	1.234E+00	0.445E+00	36.07	
RA-224	1.41E+10Y	1.00	8.730E+00	8.730E+00	4.306E+00	49.32	
RA-226	1602.00Y	1.00	8.199E+00	8.199E+00	15.41E+00	187.93	
AC-228	1.41E+10Y	1.00	1.809E+00	1.809E+00	0.849E+00	46.95	
TH-234	4.47E+09Y	1.00	3.203E+00	3.203E+00	3.027E+00	94.50	
			---	---			
	Total Activity :		3.829E+01	3.829E+01			

Grand Total Activity : 3.829E+01 3.829E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606116_GE4_GAS1002_151318.CNF;1
Title :
Sample Title: S-15
Start Time: 9-JUL-2010 10:43: Sample Time: 2-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:01.08 Sample ID : 1006061-16 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606116_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	2	62
17:	79	70	67	53	57	35	52	46
25:	43	52	47	30	47	33	34	50
33:	42	28	23	26	38	51	32	34
41:	32	40	42	31	34	47	63	45
49:	40	46	54	39	50	35	36	52
57:	54	53	52	54	53	48	94	131
65:	64	54	57	78	57	78	70	52
73:	65	93	146	165	193	184	79	38
81:	46	62	53	60	64	72	88	80
89:	68	64	68	111	176	136	61	38
97:	31	49	49	40	32	39	30	24
105:	33	35	29	38	40	34	30	35
113:	39	36	34	36	32	36	33	24
121:	23	26	36	24	28	23	30	36
129:	49	38	32	33	28	27	23	31
137:	26	26	26	22	35	24	28	33
145:	42	36	34	30	35	35	24	20
153:	31	30	34	36	30	27	27	28
161:	26	26	28	33	32	35	33	20
169:	35	16	25	25	30	29	26	23
177:	24	17	18	21	15	35	31	30
185:	45	75	56	23	23	17	21	28
193:	30	18	26	20	24	27	27	18
201:	19	22	17	24	22	19	20	23
209:	23	34	25	23	20	26	25	19
217:	11	15	21	21	21	19	15	13
225:	19	17	21	21	17	15	25	19
233:	10	18	25	20	28	97	161	113
241:	46	58	28	18	14	12	9	21
249:	13	11	12	17	16	13	21	7
257:	19	12	13	11	18	21	16	13
265:	14	9	13	13	17	21	26	24
273:	10	13	22	13	13	21	20	14
281:	14	13	15	15	10	16	23	12
289:	14	15	9	7	13	17	25	36
297:	24	10	21	19	20	12	10	15
305:	10	9	8	14	9	15	5	6
313:	10	15	17	15	8	11	9	7
321:	13	5	11	11	9	8	12	15
329:	19	13	11	6	11	19	8	6
337:	13	33	35	12	7	9	10	10
345:	7	9	6	8	10	10	25	52
353:	36	16	7	5	9	10	2	14
361:	10	11	4	10	14	9	11	7
369:	12	13	11	2	11	7	5	8
377:	7	9	6	14	7	16	5	8
385:	9	6	10	4	7	5	8	5
393:	14	7	12	12	7	6	6	5
401:	9	10	9	6	10	11	8	11
409:	9	14	4	5	12	10	6	14
417:	2	11	11	3	10	9	7	4
425:	8	6	9	14	9	9	9	4

433:	5	8	1	10	9	4	8	9
441:	5	7	8	3	5	3	5	8
449:	2	6	7	5	10	10	1	5
457:	4	9	9	7	10	8	18	14
465:	7	10	8	8	4	6	5	10
473:	11	6	8	7	6	7	5	5
481:	9	7	1	5	4	6	3	7
489:	7	12	5	2	5	5	4	9
497:	10	5	8	7	4	8	4	5
505:	7	8	6	6	10	26	36	23
513:	12	9	7	6	6	7	6	5
521:	5	5	9	4	9	5	7	4
529:	3	7	4	3	10	5	2	4
537:	8	7	3	4	4	7	6	6
545:	11	5	7	3	7	7	5	4
553:	5	5	3	6	6	6	7	8
561:	7	9	7	9	4	7	2	2
569:	6	10	6	3	4	2	5	4
577:	5	6	4	6	3	10	39	53
585:	17	7	5	6	9	8	1	2
593:	2	3	4	3	5	6	4	10
601:	6	7	9	5	4	6	4	7
609:	33	30	14	8	5	4	3	0
617:	3	5	3	4	12	2	7	3
625:	4	7	4	1	2	9	4	4
633:	4	3	6	8	1	3	6	5
641:	5	8	4	3	5	2	5	7
649:	1	7	6	4	4	4	3	4
657:	0	3	1	4	3	7	3	3
665:	9	9	9	3	2	5	4	2
673:	5	2	7	5	4	5	4	5
681:	5	5	4	7	5	6	5	8
689:	4	4	5	2	7	4	5	4
697:	5	3	8	3	2	6	8	4
705:	5	6	9	5	4	2	3	1
713:	3	3	6	9	2	6	5	4
721:	5	4	2	4	6	5	10	14
729:	8	4	3	2	2	6	3	7
737:	7	5	4	6	4	0	2	1
745:	1	5	4	4	3	4	5	5
753:	6	3	5	7	2	2	2	4
761:	7	0	3	3	1	3	8	2
769:	6	5	4	5	4	2	1	5
777:	5	5	6	1	1	6	5	3
785:	4	4	4	2	2	1	1	4
793:	3	5	8	4	5	2	2	3
801:	1	3	3	1	3	3	5	1
809:	5	4	3	5	2	6	2	3
817:	2	7	1	2	4	3	2	3
825:	2	1	3	2	4	3	6	3
833:	1	2	2	2	2	3	4	2
841:	2	3	3	5	7	1	3	3
849:	2	4	3	3	1	2	9	4
857:	2	4	4	8	5	5	1	1
865:	3	4	4	3	2	2	3	2
873:	4	2	0	5	1	2	3	4
881:	1	1	1	0	3	1	2	3
889:	1	4	4	4	2	4	3	2
897:	0	1	2	1	1	5	4	3
905:	6	5	2	5	5	8	23	22

913:	8	3	1	3	1	3	1	0
921:	2	3	4	1	2	3	2	1
929:	3	2	1	2	1	3	3	2
937:	3	2	1	1	2	4	4	3
945:	3	2	4	1	1	1	2	1
953:	2	1	3	1	0	2	4	1
961:	1	2	0	7	5	5	3	7
969:	9	12	3	1	2	2	4	2
977:	1	1	0	1	2	1	1	3
985:	1	1	2	1	2	3	2	2
993:	2	1	3	2	7	1	5	3
1001:	5	3	2	2	3	1	1	1
1009:	2	2	3	1	5	2	2	2
1017:	3	4	1	1	0	3	2	3
1025:	3	3	0	3	1	1	2	2
1033:	4	1	3	4	3	2	2	4
1041:	3	3	1	1	0	0	1	1
1049:	0	1	4	2	2	1	4	1
1057:	1	1	3	1	1	2	0	0
1065:	2	3	2	2	0	4	4	3
1073:	2	4	3	2	3	3	2	1
1081:	1	3	2	0	2	4	0	1
1089:	0	1	2	4	1	2	0	0
1097:	2	2	1	1	2	3	3	2
1105:	4	2	0	1	0	3	2	2
1113:	3	6	3	1	1	3	5	8
1121:	4	4	2	2	1	2	2	4
1129:	2	1	3	0	1	3	0	1
1137:	2	3	3	0	2	2	2	1
1145:	0	0	5	4	1	1	1	0
1153:	1	5	4	1	1	2	1	0
1161:	2	1	2	2	2	0	5	2
1169:	3	0	0	3	1	1	2	0
1177:	1	6	2	3	4	0	0	2
1185:	0	4	1	3	0	1	1	0
1193:	1	1	1	5	2	2	1	2
1201:	1	2	2	1	0	1	0	3
1209:	1	4	3	2	0	5	1	0
1217:	1	1	3	3	0	1	1	0
1225:	0	3	4	3	1	1	1	0
1233:	1	5	2	1	2	6	4	1
1241:	0	1	2	0	1	4	1	3
1249:	1	2	0	3	2	1	1	1
1257:	2	0	1	0	3	5	2	0
1265:	1	1	1	2	1	1	0	0
1273:	4	3	2	1	5	0	4	1
1281:	3	4	0	1	3	2	1	2
1289:	2	2	2	1	1	1	3	1
1297:	1	3	2	0	0	0	1	2
1305:	1	1	0	1	0	0	1	2
1313:	2	1	2	1	1	1	5	1
1321:	2	1	2	3	1	2	0	0
1329:	1	1	1	2	0	2	2	1
1337:	2	0	0	2	1	1	1	1
1345:	0	1	0	1	1	0	1	0
1353:	1	0	3	3	2	1	0	0
1361:	1	2	0	2	0	0	1	1
1369:	2	1	0	0	2	3	2	2
1377:	2	4	3	0	1	1	1	1
1385:	0	1	4	2	2	1	1	1

1393:	0	0	1	2	2	0	3	1
1401:	1	1	1	1	0	0	1	3
1409:	0	1	1	2	0	0	0	0
1417:	1	0	1	1	1	1	0	0
1425:	1	1	0	0	5	1	1	3
1433:	3	0	0	1	0	2	0	0
1441:	2	1	1	2	0	1	0	0
1449:	1	1	1	0	1	0	0	1
1457:	1	1	1	15	28	4	4	0
1465:	1	0	1	0	0	3	2	0
1473:	0	0	1	2	1	1	0	1
1481:	2	0	0	0	0	1	0	1
1489:	1	0	1	2	1	0	0	2
1497:	1	0	1	2	2	2	1	0
1505:	0	1	0	0	1	0	0	1
1513:	2	0	3	2	0	1	1	3
1521:	0	0	0	0	1	1	1	1
1529:	1	1	1	0	1	1	0	0
1537:	1	1	1	2	1	0	1	1
1545:	1	1	2	0	0	0	0	1
1553:	1	1	1	1	1	0	1	2
1561:	0	0	2	1	0	5	2	2
1569:	2	0	0	0	0	0	0	0
1577:	0	0	1	0	1	2	1	1
1585:	1	1	2	1	3	0	3	6
1593:	5	3	0	1	0	0	0	1
1601:	0	1	1	2	1	2	0	0
1609:	0	0	0	1	1	0	1	1
1617:	0	0	2	2	3	2	0	0
1625:	1	0	0	0	1	1	1	1
1633:	0	3	1	1	0	1	1	0
1641:	1	0	0	0	0	1	0	1
1649:	2	0	1	1	1	2	0	0
1657:	0	1	1	1	0	0	0	2
1665:	2	0	1	3	1	1	0	0
1673:	1	1	0	0	0	0	3	0
1681:	1	0	1	2	0	1	0	1
1689:	0	0	2	0	0	0	0	1
1697:	2	1	2	1	0	0	0	2
1705:	1	0	0	2	2	2	0	0
1713:	0	0	0	1	3	1	1	0
1721:	1	0	0	2	0	1	1	2
1729:	2	1	0	1	2	2	0	0
1737:	0	0	0	1	1	0	1	1
1745:	1	0	1	0	1	0	0	0
1753:	0	1	0	0	0	0	0	2
1761:	0	1	2	2	6	3	0	2
1769:	0	1	1	1	3	1	0	1
1777:	0	0	1	0	2	0	0	0
1785:	0	1	1	1	0	1	0	0
1793:	0	0	0	1	0	1	0	0
1801:	0	0	0	3	1	5	0	0
1809:	1	2	1	1	1	1	0	3
1817:	0	0	1	2	0	1	0	0
1825:	2	0	0	1	0	1	0	0
1833:	0	0	0	2	0	1	1	1
1841:	2	0	0	2	2	1	1	1
1849:	1	0	0	0	0	0	1	1
1857:	0	1	0	0	0	0	1	0
1865:	1	0	0	0	1	0	0	0

1873:	0	0	1	1	0	0	1	0
1881:	0	1	0	1	1	1	0	0
1889:	0	1	0	0	0	2	1	0
1897:	2	0	1	0	0	0	0	0
1905:	0	0	0	1	0	0	0	0
1913:	0	0	0	0	0	0	0	1
1921:	1	0	0	1	0	3	0	0
1929:	0	1	1	1	0	1	0	0
1937:	0	1	0	0	1	0	0	0
1945:	0	0	2	1	1	0	1	1
1953:	0	0	0	1	1	0	0	0
1961:	1	2	0	1	3	1	0	0
1969:	0	1	0	0	0	0	0	0
1977:	0	1	0	0	0	0	0	0
1985:	1	0	1	1	0	1	0	2
1993:	0	1	0	1	1	0	0	0
2001:	0	2	0	1	0	0	1	0
2009:	0	2	1	0	2	0	0	0
2017:	0	1	0	1	1	1	1	1
2025:	0	1	1	0	0	0	0	1
2033:	0	1	1	1	0	1	1	1
2041:	1	1	1	0	0	0	1	1
2049:	0	1	1	0	0	0	1	3
2057:	1	0	0	0	0	0	0	1
2065:	0	0	0	0	0	1	1	0
2073:	0	0	0	0	0	0	0	1
2081:	0	0	0	0	0	0	1	1
2089:	0	0	0	0	1	0	0	1
2097:	1	1	0	0	0	0	1	2
2105:	2	1	2	1	0	1	1	1
2113:	1	0	0	1	2	2	0	0
2121:	2	2	0	0	1	1	1	0
2129:	0	1	1	1	0	1	0	1
2137:	0	0	0	0	1	0	0	1
2145:	0	0	0	0	1	0	1	0
2153:	0	0	0	0	1	0	0	0
2161:	0	0	2	1	1	1	1	0
2169:	0	0	1	0	0	2	0	1
2177:	2	0	0	0	1	0	2	0
2185:	0	0	1	1	4	0	2	0
2193:	0	0	0	0	0	2	1	0
2201:	0	0	1	1	0	1	0	2
2209:	2	0	2	0	0	0	0	1
2217:	1	0	0	1	1	0	0	2
2225:	2	0	1	0	0	2	0	0
2233:	1	0	3	0	1	2	0	0
2241:	1	0	0	2	0	0	0	0
2249:	0	2	2	0	1	1	1	1
2257:	1	1	0	0	0	0	0	1
2265:	1	0	0	1	0	0	0	0
2273:	0	0	1	0	0	0	0	0
2281:	0	0	0	1	2	1	0	0
2289:	1	0	0	2	0	0	0	1
2297:	0	0	3	0	0	0	1	1
2305:	2	0	0	1	0	1	1	0
2313:	0	2	1	0	0	1	2	0
2321:	1	1	1	0	0	0	1	0
2329:	2	1	0	0	1	2	0	1
2337:	1	4	0	0	0	3	1	2
2345:	1	1	0	0	0	0	0	1

2353:	2	1	3	0	0	0	0	0
2361:	0	0	1	1	2	0	1	2
2369:	1	0	0	0	0	2	1	0
2377:	1	0	1	0	0	0	1	0
2385:	1	0	0	0	1	1	0	0
2393:	1	1	0	0	0	2	0	0
2401:	1	0	0	0	1	0	0	0
2409:	1	2	0	1	2	1	0	0
2417:	0	0	1	1	0	1	0	0
2425:	1	2	0	0	0	0	0	1
2433:	0	1	0	0	0	0	1	0
2441:	1	2	0	0	1	0	1	0
2449:	0	0	1	0	0	0	0	0
2457:	2	0	0	0	2	0	1	0
2465:	0	1	0	0	0	1	0	0
2473:	0	1	0	0	0	0	0	0
2481:	0	0	1	0	0	0	1	0
2489:	1	0	0	1	0	0	0	0
2497:	1	0	1	0	0	1	0	1
2505:	1	0	0	0	1	0	0	0
2513:	1	0	1	0	0	1	0	1
2521:	1	0	0	0	1	0	0	0
2529:	0	0	1	0	0	0	0	1
2537:	0	0	0	0	0	1	0	0
2545:	0	0	0	1	0	0	0	0
2553:	0	0	0	1	0	0	0	0
2561:	0	0	0	0	0	0	1	0
2569:	2	0	0	0	0	0	0	1
2577:	0	1	0	0	1	0	0	0
2585:	0	0	1	1	0	0	0	0
2593:	1	1	0	0	0	0	0	1
2601:	0	0	0	0	1	0	1	0
2609:	0	0	0	4	7	10	9	7
2617:	2	0	2	0	0	0	0	0
2625:	1	0	0	0	0	1	1	0
2633:	0	0	0	0	0	0	0	0
2641:	0	0	1	0	0	0	0	0
2649:	0	0	0	0	0	0	0	0
2657:	1	1	0	0	0	0	0	0
2665:	0	0	0	0	0	1	0	0
2673:	0	0	0	0	0	0	1	0
2681:	1	1	0	1	1	0	1	0
2689:	0	0	0	0	0	0	0	0
2697:	0	0	1	0	0	0	0	0
2705:	0	0	0	0	0	0	0	0
2713:	0	1	0	0	2	1	0	0
2721:	0	0	0	1	1	1	0	1
2729:	0	0	0	0	0	0	0	0
2737:	0	0	0	0	0	0	0	0
2745:	0	0	0	0	0	0	1	0
2753:	0	1	0	0	0	1	0	0
2761:	0	0	0	0	0	0	0	0
2769:	0	0	1	0	0	0	2	0
2777:	0	0	0	0	0	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	1	0	1	0	0	0	1	0
2801:	0	0	0	1	0	1	0	0
2809:	0	0	1	0	0	0	0	0
2817:	0	0	0	1	0	1	0	1
2825:	0	0	0	0	0	0	0	1

2833:	1	0	0	1	1	1	0	0
2841:	0	0	1	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	1	0	1	0	0	0	1	0
2873:	1	0	0	0	0	1	0	1
2881:	1	0	0	1	0	0	0	0
2889:	0	0	0	2	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	0	0	0	0	0	0	0	1
2913:	1	0	0	0	0	0	0	1
2921:	0	0	0	0	0	0	0	0
2929:	0	0	0	0	0	0	0	0
2937:	0	0	0	1	0	0	0	0
2945:	0	0	0	1	0	0	0	0
2953:	0	0	0	0	0	0	0	0
2961:	0	0	0	0	0	0	0	0
2969:	0	0	1	0	0	0	1	2
2977:	0	0	0	0	0	0	0	0
2985:	0	0	0	0	0	0	0	0
2993:	0	0	0	0	0	1	0	0
3001:	0	0	1	0	0	0	0	0
3009:	0	0	0	2	0	1	0	0
3017:	0	0	0	0	0	0	0	1
3025:	1	0	0	0	0	0	0	0
3033:	0	0	0	0	0	1	0	0
3041:	0	0	0	3	0	0	0	0
3049:	0	0	0	0	1	0	0	1
3057:	0	0	1	0	0	2	1	0
3065:	0	0	0	0	0	1	0	0
3073:	0	0	0	0	0	0	0	0
3081:	0	0	0	0	0	0	0	0
3089:	0	0	1	0	1	0	1	0
3097:	0	0	0	0	0	1	0	1
3105:	0	0	0	0	0	0	0	1
3113:	0	0	0	1	1	0	0	0
3121:	1	0	0	0	1	0	0	0
3129:	0	0	0	0	1	1	0	0
3137:	1	0	0	0	0	0	0	0
3145:	0	0	0	0	0	0	0	0
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	1	0	0	0	0	0	0
3177:	0	0	0	0	1	0	0	0
3185:	0	0	0	0	0	0	0	0
3193:	0	0	0	1	0	0	0	0
3201:	0	0	0	0	0	0	0	0
3209:	0	0	0	0	0	0	0	0
3217:	0	1	0	0	0	0	0	0
3225:	0	0	0	0	1	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	0	0	1	0
3249:	0	0	0	0	0	0	0	0
3257:	0	0	0	1	0	1	1	0
3265:	0	0	0	0	0	0	0	0
3273:	2	0	0	0	0	0	0	0
3281:	1	0	0	0	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	1	0	0	0	0	1	0

3313:	0	0	0	0	0	0	1	1
3321:	0	0	0	0	0	0	1	0
3329:	0	0	0	0	0	0	1	0
3337:	0	0	1	0	0	1	0	0
3345:	0	0	0	0	0	0	1	0
3353:	0	0	0	0	0	0	0	1
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	1	0	0	0	0	0	0	0
3393:	0	0	0	0	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	1	0	0	0	0	0
3417:	0	0	0	0	0	0	0	1
3425:	0	0	0	1	0	0	0	0
3433:	0	0	0	0	0	0	0	0
3441:	0	0	0	0	0	0	0	0
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	1	1	1	0	0	0	0	0
3481:	1	0	0	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	0	0	1	1	0	1
3505:	0	0	0	0	0	0	0	0
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	1	0	0	0	0	0	0	0
3537:	0	0	0	1	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	1	0	0	0	1
3561:	0	0	0	0	0	1	0	0
3569:	0	0	0	0	0	1	0	0
3577:	0	0	0	1	0	1	0	0
3585:	0	0	0	1	0	0	1	1
3593:	0	0	0	0	0	1	0	0
3601:	0	0	1	0	0	1	0	0
3609:	0	0	0	0	0	0	1	0
3617:	0	0	0	0	1	0	0	0
3625:	0	0	1	0	0	0	0	0
3633:	0	0	0	1	0	0	1	0
3641:	0	0	0	0	0	0	1	0
3649:	0	0	0	0	0	0	0	0
3657:	0	0	0	0	0	0	0	1
3665:	0	0	0	2	1	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	1	0	0	0	1	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	0	0	0	0	0	1	1	0
3745:	0	0	0	1	0	0	0	0
3753:	0	0	0	1	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	0	0	0	0	0	1	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	0	0	0	1	0
3801:	0	2	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	1	0	0	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	1	0	0	0	0	0	0	0
3841:	0	1	0	0	0	0	1	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	1	0	1	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	0	0	0	0	0	0	1
3905:	0	0	0	0	0	1	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	0	0	1	0	1	0
3929:	0	0	1	0	0	0	0	0
3937:	0	0	0	0	0	0	1	0
3945:	1	1	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	1	0	0	0	0	0
3985:	1	0	1	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	0	2	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	1	0	0	0
4025:	0	1	0	0	0	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	1	0	0	0	0	0	0	0
4049:	0	1	0	0	0	0	0	0
4057:	0	0	0	1	1	0	0	0
4065:	0	1	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	1	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

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VAX/VMS Peak Search Report Generated 9-JUL-2010 13:21:14.74

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606117_GE1_GAS1002_151324.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-16
Deposition Date :
Sample Date : 3-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 12:20:38.
Sample ID : 1006061-17 Sample Quantity : 1.39900E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:21.75 0.6%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	39.52	730	5710	1.20	38.94	37	5	31.9		RA-225
0	62.61*	5014	17085	1.81	62.04	60	6	8.7		TH-234
5	67.91	4864	13553	2.40	67.35	65	15	7.5	1.13E+03	
5	75.79*	47343	27486	3.26	75.24	65	15	1.6		AM-243
1	83.75*	3701	10625	1.83	83.20	81	16	8.0	4.67E+02	
1	86.75	8971	16663	2.24	86.20	81	16	5.4		EU-155
										NP-237
										SN-126
										CD-109
1	89.34*	7729	15489	2.25	88.80	81	16	6.3		
1	92.75*	14512	11232	1.88	92.20	81	16	3.1		
0	99.06	1490	8548	2.03	98.52	97	6	20.4		
1	105.33	1861	7986	1.85	104.79	102	9	15.9	2.32E+00	EU-155
1	108.74	550	8194	1.86	108.21	102	9	53.8		
0	114.54	1348	8391	2.62	114.01	111	7	23.4		
0	129.09	3063	12229	1.87	128.58	124	10	14.0		
0	143.92*	1736	11475	1.98	143.42	138	10	23.6		U-235
0	154.21	1509	8271	1.81	153.72	150	8	21.5		
0	163.94*	273	6867	1.31	163.45	160	7	101.2		U-235
0	185.67*	5345	10634	2.06	185.19	179	11	8.0		RA-226
0	199.03*	298	6092	2.95	198.57	196	7	87.8		
5	206.23	739	5977	2.39	205.77	202	12	36.1	5.17E+00	U-235
5	209.41	3532	4191	1.68	208.95	202	12	6.5		
0	216.64	209	4605	2.12	216.19	214	6	103.9		
1	236.44	6420	4339	2.16	236.00	232	15	6.2	3.84E+03	
1	241.43*	6869	3241	2.16	241.00	232	15	6.6		RA-224
2	252.88	269	4337	2.63	252.46	247	12	85.7	1.72E+00	
2	256.00	136	3379	1.90	255.58	247	12	135.8		
1	270.24	3915	3496	2.40	269.83	265	17	5.9	1.81E+01	
1	277.30	1827	3419	2.30	276.89	265	17	11.5		
2	286.82	153	990	1.96	286.42	285	22	49.9	3.06E+01	
2	292.82	226	2840	2.09	292.42	285	22	78.2		
2	295.42*	3764	2715	1.83	295.03	285	22	5.5		PB-214
2	300.18	2844	2497	2.00	299.79	285	22	6.8		
2	303.63	332	2396	1.85	303.24	285	22	55.7		
0	328.05	1753	3916	1.69	327.68	324	8	13.3		

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Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	338.35	8661	2561	1.98	337.99	332	13	2.8	5.56E+01	AC-228
5	341.75	425	1893	1.68	341.39	332	13	39.2		
0	351.87*	6663	3733	1.96	351.52	347	10	4.2		PB-214
0	376.87	153	2868	2.29	376.53	372	8	122.4		
0	388.51	240	2407	3.74	388.18	385	7	69.0		
0	400.55	302	2424	4.53	400.24	397	7	55.3		RN-219
2	405.66	186	679	2.13	405.35	404	10	35.8	1.56E+00	PB-211
2	409.53	1107	1929	1.84	409.22	404	10	14.0		
0	453.19	174	1522	1.93	452.91	451	6	72.7		
0	463.06*	2193	2521	1.70	462.79	458	10	9.6		
3	505.00	288	1504	3.06	504.76	501	17	45.6	2.56E+01	
3	510.83*	4181	1487	2.46	510.60	501	17	4.3		
0	562.70	403	1706	1.86	562.50	559	8	36.9		CS-134
0	571.71	163	1294	2.60	571.52	569	6	71.8		
0	583.21*	12729	2246	1.63	583.03	578	10	2.3		TL-208
5	605.26	160	806	2.62	605.10	603	13	51.7	5.50E+00	CS-134
5	609.36*	4351	1221	1.85	609.20	603	13	4.0		BI-214
0	665.32	127	1294	1.93	665.20	663	7	95.4		
0	727.26	2764	1805	1.93	727.18	722	11	7.1		BI-212
0	755.37	371	1178	1.92	755.32	752	8	33.7		
1	763.29	307	857	2.64	763.24	760	17	31.4	4.79E+00	
1	768.16	476	812	2.16	768.11	760	17	21.3		
1	772.28	583	1028	2.57	772.24	760	17	21.9		
2	782.18	190	847	2.25	782.14	779	11	54.4	8.26E+00	
2	785.53	527	938	2.70	785.49	779	11	22.2		
0	795.01	1439	1145	1.83	794.99	790	11	10.5		CS-134
0	806.35	286	925	4.38	806.33	802	11	43.0		
4	830.63	262	662	2.71	830.63	827	19	36.0	3.04E+00	PB-211
4	835.81	629	478	2.16	835.81	827	19	13.7		MN-54
4	840.14	439	540	2.49	840.15	827	19	22.0		
0	860.48	1550	848	2.15	860.50	855	11	8.9		TL-208
0	893.21	135	569	1.45	893.26	890	8	63.8		
4	905.08	358	816	3.58	905.14	899	22	37.8	1.50E+01	
4	911.26*	8447	403	2.06	911.32	899	22	2.3		AC-228
0	934.19	220	500	2.14	934.26	931	8	37.7		
2	952.40	72	169	2.44	952.49	951	25	50.4	4.37E+00	
2	958.91	122	395	2.47	959.00	951	25	57.0		
2	964.87	1614	393	2.20	964.96	951	25	7.8		
2	968.95	4744	333	2.07	969.05	951	25	3.3		AC-228
0	987.96	63	357	1.21	988.07	985	7	103.2		
0	1001.47*	464	548	2.09	1001.60	996	12	22.2		PA-234M
0	1064.34	79	516	1.68	1064.51	1060	10	110.2		
0	1079.22	63	387	1.94	1079.40	1075	8	111.5		
0	1095.17	279	511	3.15	1095.36	1088	14	36.5		
0	1110.10	165	352	2.79	1110.30	1106	9	43.9		
0	1120.35	1000	518	2.36	1120.56	1115	13	11.3		BI-214
0	1154.78	221	459	3.09	1155.02	1149	13	42.1		
1	1237.93	376	281	2.80	1238.22	1231	23	18.7	1.83E+00	
1	1246.77	138	288	2.81	1247.08	1231	23	46.7		
1	1281.41	95	294	2.82	1281.74	1275	16	66.6	1.69E+00	
1	1286.58	50	298	2.62	1286.91	1275	16	121.9		

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1302.27	59	210	3.38	1302.61	1300	7	86.0		
0	1328.71	51	275	5.68	1329.07	1326	9	119.5		
1	1377.47	283	261	2.77	1377.87	1371	19	23.3	2.98E+00	
1	1385.35	46	322	2.85	1385.76	1371	19	140.1		
2	1401.81	85	279	2.73	1402.23	1394	19	70.0	1.63E+00	
2	1408.10	151	258	2.76	1408.52	1394	19	41.0		
0	1460.10*	400	319	3.35	1460.56	1456	13	21.1		K-40
2	1495.87	202	223	2.58	1496.36	1488	18	28.8	6.53E-01	
2	1501.73	114	175	2.30	1502.22	1488	18	43.9		
0	1510.73	217	288	5.95	1511.23	1506	12	34.1		
2	1580.99	133	260	3.02	1581.54	1576	23	46.3	4.26E+00	
2	1587.95	551	200	2.25	1588.50	1576	23	12.9		
2	1592.31	469	282	3.20	1592.87	1576	23	19.0		
1	1620.63	302	226	2.91	1621.21	1617	20	21.5	2.71E+00	BI-212
1	1630.50	339	177	2.46	1631.08	1617	20	17.0		
0	1638.18	102	189	2.35	1638.77	1636	8	51.2		
1	1661.13	87	149	2.75	1661.73	1657	27	52.1	2.08E+00	
1	1666.48	38	150	2.80	1667.09	1657	27	117.7		
0	1728.83	205	155	2.58	1729.48	1724	10	26.7		
0	1764.47*	737	259	2.64	1765.16	1760	11	11.3		BI-214
0	1847.11	62	120	2.84	1847.86	1845	7	64.5		
0	2103.18	624	335	3.25	2104.11	2096	16	15.4		
0	2175.57	127	258	5.41	2176.56	2170	14	56.5		
0	2203.08*	233	292	2.55	2204.09	2197	13	33.0		BI-214
2	2286.35	53	230	3.38	2287.41	2267	32	112.1	1.32E+00	
2	2292.46	61	222	3.38	2293.53	2267	32	99.6		
0	2333.22	42	211	1.89	2334.32	2331	7	121.4		
0	2447.33	54	205	2.44	2448.51	2444	10	102.9		
0	2613.99*	4400	74	2.80	2615.29	2608	15	3.1		TL-208
0	2661.51	15	25	2.54	2662.85	2659	7	125.0		
0	2690.66	35	69	1.37	2692.02	2682	14	107.1		
0	2869.06	29	38	15.36	2870.55	2859	20	111.8		
0	3044.84	13	5	1.18	3046.46	3040	10	86.8		
0	3124.85	43	11	3.17	3126.53	3121	11	42.3		
0	3196.67	114	9	3.22	3198.40	3193	12	21.4		
0	3473.86	14	3	1.52	3475.79	3471	10	66.9		

Summary of Nuclide Activity
Sample ID : 1006061-17

Acquisition date : 9-JUL-2010 12:20:38

Total number of lines in spectrum	120	
Number of unidentified lines	60	
Number of lines tentatively identified by NID	60	50.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.988E+01	3.988E+01	0.953E+01	23.90	
TL-208	1.41E+10Y	1.00	2.044E+02	2.044E+02	0.148E+02	7.22	
PB-211	3.28E+04Y	1.00	2.993E+01	2.993E+01	0.861E+01	28.77	
BI-212	1.41E+10Y	1.00	1.403E+02	1.403E+02	0.165E+02	11.76	
BI-214	1602.00Y	1.00	5.446E+01	5.446E+01	0.428E+01	7.87	
PB-214	1602.00Y	1.00	6.109E+01	6.109E+01	0.535E+01	8.75	
RN-219	3.28E+04Y	1.00	1.790E+01	1.790E+01	1.006E+01	56.22	
RA-224	1.41E+10Y	1.00	4.619E+02	4.619E+02	0.598E+02	12.94	
RA-225	14.80D	5.54	6.276E+00	3.474E+01	1.205E+01	34.69	
RA-226	1602.00Y	1.00	3.729E+02	3.729E+02	6.838E+02	183.36	
AC-228	1.41E+10Y	1.00	2.341E+02	2.341E+02	0.136E+02	5.83	
PA-234M	4.47E+09Y	1.00	4.098E+02	4.098E+02	0.985E+02	24.03	
TH-234	4.47E+09Y	1.00	2.646E+02	2.646E+02	0.402E+02	15.19	
U-235	7.04E+08Y	1.00	2.823E+01	2.823E+01	0.707E+01	25.06	
			---	---			
	Total Activity :		2.326E+03	2.354E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.08	4.423E+00	4.796E+00	0.813E+00	16.96	
AM-243	7380.00Y	1.00	1.375E+02	1.375E+02	0.242E+02	17.59	
			---	---			
	Total Activity :		1.419E+02	1.423E+02			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	4.539E+02	4.793E+02	1.201E+02	25.06	
SN-126	1.00E+05Y	1.00	4.564E+01	4.564E+01	1.102E+01	24.14	
CS-134	2.06Y	1.03	8.827E-01	9.128E-01	4.837E-01	52.98	
EU-155	4.96Y	1.01	1.706E+01	1.730E+01	0.401E+01	23.16	
NP-237	2.14E+06Y	1.00	1.341E+02	1.341E+02	0.317E+02	23.64	
			---	---			
	Total Activity :		6.515E+02	6.773E+02			

Grand Total Activity : 3.119E+03 3.174E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	3.988E+01	3.988E+01	23.90	OK
	Final Mean for 1 Valid Peaks = 3.988E+01+/- 9.533E+00 (23.90%)						
TL-208	583.14	30.22*	1.026E+00	2.203E+02	2.203E+02	11.80	OK
	860.37	4.48	7.447E-01	2.493E+02	2.493E+02	13.12	OK
	2614.66	35.85	3.778E-01	1.743E+02	1.743E+02	12.30	OK
	Final Mean for 3 Valid Peaks = 2.044E+02+/- 1.476E+01 (7.22%)						
PB-211	404.84	2.90*	1.385E+00	2.482E+01	2.482E+01	37.25	OK
	831.96	2.90	7.651E-01	6.328E+01	6.328E+01	37.35	OK
	Final Mean for 2 Valid Peaks = 2.993E+01+/- 8.610E+00 (28.77%)						
BI-212	727.17	11.80*	8.541E-01	1.472E+02	1.472E+02	13.42	OK
	1620.62	2.75	4.729E-01	1.244E+02	1.244E+02	24.10	OK
	Final Mean for 2 Valid Peaks = 1.403E+02+/- 1.649E+01 (11.76%)						
BI-214	609.31	46.30*	9.893E-01	5.097E+01	5.097E+01	12.38	OK
	1120.29	15.10	6.070E-01	5.853E+01	5.853E+01	14.58	OK
	1764.49	15.80	4.502E-01	5.558E+01	5.558E+01	15.47	OK
	2204.22	4.98	4.030E-01	6.227E+01	6.227E+01	34.88	OK
	Final Mean for 4 Valid Peaks = 5.446E+01+/- 4.283E+00 (7.87%)						
PB-214	295.21	19.19	1.761E+00	5.978E+01	5.978E+01	13.10	OK
	351.92	37.19*	1.545E+00	6.222E+01	6.223E+01	11.75	OK
	Final Mean for 2 Valid Peaks = 6.109E+01+/- 5.346E+00 (8.75%)						
RN-219	401.80	6.50*	1.393E+00	1.790E+01	1.790E+01	56.22	OK
	Final Mean for 1 Valid Peaks = 1.790E+01+/- 1.006E+01 (56.22%)						
RA-224	240.98	3.95*	2.021E+00	4.619E+02	4.619E+02	12.94	OK
	Final Mean for 1 Valid Peaks = 4.619E+02+/- 5.976E+01 (12.94%)						
RA-225	40.00	31.00*	2.015E+00	6.276E+00	3.474E+01	34.69	OK
	Final Mean for 1 Valid Peaks = 3.474E+01+/- 1.205E+01 (34.69%)						
RA-226	186.21	3.28*	2.345E+00	3.729E+02	3.729E+02	183.36	OK
	Final Mean for 1 Valid Peaks = 3.729E+02+/- 6.838E+02 (183.36%)						
AC-228	338.32	11.40	1.592E+00	2.560E+02	2.560E+02	11.59	OK

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
	911.07	27.70*	7.115E-01	2.300E+02	2.300E+02	9.35	OK
	969.11	16.60	6.778E-01	2.263E+02	2.263E+02	9.70	OK
	Final Mean for 3 Valid Peaks = 2.341E+02+/- 1.364E+01 (5.83%)						
PA-234M	1001.03	0.92*	6.609E-01	4.098E+02	4.098E+02	24.03	OK
	Final Mean for 1 Valid Peaks = 4.098E+02+/- 9.848E+01 (24.03%)						
TH-234	63.29	3.80*	2.676E+00	2.646E+02	2.646E+02	15.19	OK
	Final Mean for 1 Valid Peaks = 2.646E+02+/- 4.020E+01 (15.19%)						
U-235	143.76	10.50*	2.624E+00	3.380E+01	3.380E+01	29.79	OK
	163.35	4.70	2.495E+00	1.251E+01	1.251E+01	103.03	OK
	205.31	4.70	2.225E+00	3.790E+01	3.790E+01	41.22	OK
	Final Mean for 3 Valid Peaks = 2.823E+01+/- 7.074E+00 (25.06%)						

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
MN-54	834.83	99.97*	7.630E-01	4.423E+00	4.796E+00	16.96	OK
	Final Mean for 1 Valid Peaks = 4.796E+00+/- 8.134E-01 (16.96%)						
AM-243	74.67	66.00*	2.800E+00	1.375E+02	1.375E+02	17.59	OK
	Final Mean for 1 Valid Peaks = 1.375E+02+/- 2.419E+01 (17.59%)						

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
CD-109	88.03	3.72*	2.851E+00	4.539E+02	4.793E+02	25.06	OK
	Final Mean for 1 Valid Peaks = 4.793E+02+/- 1.201E+02 (25.06%)						
SN-126	87.57	37.00*	2.851E+00	4.564E+01	4.564E+01	24.14	OK
	Final Mean for 1 Valid Peaks = 4.564E+01+/- 1.102E+01 (24.14%)						
CS-134	563.23	8.38	1.056E+00	2.442E+01	2.525E+01	38.65	<<WM N-Sigma
	569.32	15.43	1.047E+00	----- Line Not Found		-----	Absent
	604.70	97.60*	9.955E-01	8.827E-01	9.128E-01	52.98	OK
	795.84	85.40	7.932E-01	1.140E+01	1.179E+01	14.99	<<WM N-Sigma

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
	801.93	8.73	7.883E-01	----- Line Not Found		-----	Absent
	Final Mean for 1 Valid Peaks = 9.128E-01+/- 4.837E-01 (52.98%)						
EU-155	86.50	30.90*	2.849E+00	5.468E+01	5.545E+01	23.64	<<WM Interf
	105.30	20.70	2.829E+00	1.706E+01	1.730E+01	23.16	OK
	Final Mean for 1 Valid Peaks = 1.730E+01+/- 4.007E+00 (23.16%)						
NP-237	86.50	12.60*	2.849E+00	1.341E+02	1.341E+02	23.64	OK
	Final Mean for 1 Valid Peaks = 1.341E+02+/- 3.170E+01 (23.64%)						

Flag: "*" = Keyline

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	3.988E+01	9.533E+00	7.025E+00	7.357E-01	5.677
MN-54	4.796E+00	8.134E-01	9.101E-01	8.406E-02	5.269
CD-109	4.793E+02	1.201E+02	2.966E+01	7.160E+00	16.161
SN-126	4.564E+01	1.102E+01	2.824E+00	6.546E-01	16.163
CS-134	9.128E-01	4.837E-01	1.026E+00	1.129E-01	0.890
EU-155	1.730E+01	4.007E+00	3.430E+00	7.772E-01	5.043
TL-208	2.044E+02	1.476E+01	3.135E+00	3.407E-01	65.196
PB-211	2.993E+01	8.610E+00	3.038E+01	2.826E+00	0.985
BI-212	1.403E+02	1.649E+01	8.680E+00	9.272E-01	16.163
BI-214	5.446E+01	4.283E+00	2.093E+00	2.305E-01	26.024
PB-214	6.109E+01	5.346E+00	2.178E+00	2.225E-01	28.052
RN-219	1.790E+01	1.006E+01	1.347E+01	1.248E+00	1.329
RA-224	4.619E+02	5.976E+01	2.086E+01	2.163E+00	22.137
RA-225	3.474E+01	1.205E+01	1.885E+01	2.459E+00	1.842
RA-226	3.729E+02	6.838E+02	2.562E+01	4.693E+01	14.554
AC-228	2.341E+02	1.364E+01	2.821E+00	2.292E-01	82.972
PA-234M	4.098E+02	9.848E+01	8.360E+01	6.894E+00	4.902
TH-234	2.646E+02	4.020E+01	2.987E+01	3.528E+00	8.857
U-235	2.823E+01	7.074E+00	7.708E+00	1.367E+00	3.662
NP-237	1.341E+02	3.170E+01	8.294E+00	1.880E+00	16.167
AM-243	1.375E+02	2.419E+01	1.790E+00	3.053E-01	76.816

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	9.429E+00		8.392E+00	1.369E+01	1.376E+00	0.689
NA-22	1.874E-01		5.623E-01	8.622E-01	8.192E-02	0.217
AL-26	-1.820E-03		4.567E-01	7.815E-01	7.570E-02	-0.002
TI-44	1.011E+01	+	1.652E+00	1.356E+00	1.888E-01	7.460
SC-46	4.220E-01		7.527E-01	1.164E+00	9.626E-02	0.363
V-48	1.646E-01		2.502E+00	3.807E+00	3.133E-01	0.043
CR-51	-1.932E+00		1.443E+01	2.075E+01	2.328E+00	-0.093
CO-56	5.226E-01		7.388E-01	1.149E+00	1.039E-01	0.455
CO-57	3.810E-01		8.603E-01	9.997E-01	9.621E-02	0.381
CO-58	4.381E-02		8.133E-01	1.237E+00	1.192E-01	0.035
FE-59	1.847E+00		1.709E+00	2.360E+00	2.123E-01	0.782
CO-60	-4.024E-01		4.782E-01	7.939E-01	6.520E-02	-0.507
ZN-65	3.370E+00		1.596E+00	2.023E+00	1.673E-01	1.665
SE-75	-4.478E-01		1.231E+00	1.607E+00	1.775E-01	-0.279
RB-82	1.303E+01		1.854E+01	2.113E+01	2.134E+00	0.617
RB-83	1.512E+00		1.796E+00	2.595E+00	4.332E-01	0.583
KR-85	2.616E+03		3.343E+02	3.213E+02	3.332E+01	8.142
SR-85	1.679E+01		2.146E+00	2.062E+00	2.139E-01	8.142
Y-88	4.776E-01		5.943E-01	1.024E+00	9.844E-02	0.466
NB-93M	6.263E+01		3.828E+01	3.786E+01	1.884E+01	1.654
NB-94	-9.437E-02		5.454E-01	8.221E-01	7.077E-02	-0.115
NB-95	9.611E+00		2.028E+00	2.634E+00	2.698E-01	3.649

Sample ID : 1006061-17 Acquisition date : 9-JUL-2010 12:20:38

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
ZR-95	6.474E+00	+	2.309E+00	3.093E+00	3.430E-01	2.093
RU-103	5.515E-01		1.264E+00	1.825E+00	2.772E-01	0.302
RU-106	-1.876E+00		6.523E+00	1.037E+01	1.562E+00	-0.181
AG-108M	3.321E+00		8.968E-01	1.345E+00	1.443E-01	2.469
AG-110M	3.614E-01		7.865E-01	1.206E+00	1.355E-01	0.300
SN-113	1.293E+00		1.472E+00	1.698E+00	1.596E-01	0.762
TE123M	1.882E-01		1.006E+00	1.160E+00	1.009E-01	0.162
SB-124	4.673E-01		9.891E-01	1.520E+00	1.669E-01	0.307
I-125	1.138E+01		1.802E+01	2.685E+01	3.934E+00	0.424
SB-125	6.157E-01		1.810E+00	2.935E+00	2.849E-01	0.210
SB-126	2.255E+00		9.765E+00	1.488E+01	1.600E+00	0.151
I-129	-1.786E+00		1.513E+00	2.430E+00	4.371E-01	-0.735
I-131	-8.069E+00		1.446E+01	2.314E+01	2.294E+00	-0.349
BA-133	7.608E+00		1.524E+00	1.674E+00	2.381E-01	4.546
CS-135	5.904E+01		7.849E+00	6.820E+00	7.566E-01	8.657
CS-136	-2.307E-01		3.853E+00	6.622E+00	5.666E-01	-0.035
CS-137	3.306E-01		7.871E-01	1.206E+00	1.358E-01	0.274
LA-138	6.576E-01		7.028E-01	1.247E+00	1.281E-01	0.527
CE-139	1.092E+00		8.324E-01	1.223E+00	1.042E-01	0.893
BA-140	1.966E+00		1.626E+01	2.617E+01	8.817E+00	0.075
LA-140	1.980E+01		4.966E+00	8.244E+00	8.357E-01	2.401
CE-141	1.697E+01		5.633E+00	4.050E+00	1.089E+00	4.191
CE-144	6.792E+00		7.207E+00	8.399E+00	7.834E-01	0.809
PM-144	-7.936E-01		6.910E-01	1.153E+00	1.267E-01	-0.688
PM-145	8.497E+00		6.610E+00	5.306E+00	3.504E+00	1.601
PM-146	1.871E+00	+	1.375E+00	2.225E+00	2.187E-01	0.841
ND-147	-6.071E+00		4.242E+01	6.797E+01	7.142E+00	-0.089
EU-152	1.052E+01	+	4.524E+00	6.635E+00	8.140E-01	1.586
GD-153	2.019E+01		5.003E+00	4.428E+00	7.625E-01	4.558
EU-154	5.127E-01		1.553E+00	2.381E+00	2.262E-01	0.215
EU-156	7.285E+00		2.838E+01	4.340E+01	1.008E+01	0.168
HO-166M	-7.309E-01		1.159E+00	1.961E+00	2.125E-01	-0.373
HF-172	2.891E+01		5.897E+00	7.890E+00	7.510E-01	3.665
LU-172	1.365E+02		3.681E+01	6.651E+01	5.501E+00	2.052
LU-173	4.875E+01		6.492E+00	5.509E+00	6.170E-01	8.849
HF-175	3.570E+00		1.292E+00	1.509E+00	1.570E-01	2.366
LU-176	3.294E-01		5.703E-01	8.304E-01	9.182E-02	0.397
TA-182	3.162E+01	+	4.610E+00	5.342E+00	4.411E-01	5.919
IR-192	9.265E-01		1.754E+00	2.539E+00	2.530E-01	0.365
HG-203	7.915E+00		1.733E+00	2.084E+00	2.413E-01	3.798
BI-207	5.818E-01		8.905E-01	1.015E+00	1.094E-01	0.573
BI-210M	-1.750E+00		1.556E+00	1.701E+00	1.858E-01	-1.029
PB-210	-6.187E+01		1.907E+01	2.504E+01	2.895E+00	-2.471
PB-212	2.832E+02		3.144E+01	6.306E+00	6.498E-01	44.910
RA-223	4.569E+01		1.609E+01	2.307E+01	2.487E+00	1.981
TH-227	1.463E+02	+	1.844E+01	2.076E+01	2.125E+00	7.048
TH-230	2.580E+03	+	4.192E+02	3.454E+02	4.777E+01	7.468
PA-231	4.486E+01	+	2.554E+01	4.549E+01	5.056E+00	0.986

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TH-231	-5.316E+01		1.419E+01	1.192E+01	2.645E+00	-4.460
PA-233	1.826E+00		3.603E+00	5.212E+00	1.223E+00	0.350
PA-234	2.906E+01		4.135E+00	4.637E+00	4.352E-01	6.266
AM-241	2.693E+01		3.604E+00	3.434E+00	3.454E-01	7.840
CM-243	3.818E+01	+	6.365E+00	6.779E+00	7.693E-01	5.632

Summary of Nuclide Activity
Sample ID : 1006061-17

Acquisition date : 9-JUL-2010 12:20:38

Total number of lines in spectrum	120	
Number of unidentified lines	60	
Number of lines tentatively identified by NID	60	50.00%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.988E+01	3.988E+01	0.953E+01	23.90	
TL-208	1.41E+10Y	1.00	2.044E+02	2.044E+02	0.148E+02	7.22	
PB-211	3.28E+04Y	1.00	2.993E+01	2.993E+01	0.861E+01	28.77	
BI-212	1.41E+10Y	1.00	1.403E+02	1.403E+02	0.165E+02	11.76	
BI-214	1602.00Y	1.00	5.446E+01	5.446E+01	0.428E+01	7.87	
PB-214	1602.00Y	1.00	6.109E+01	6.109E+01	0.535E+01	8.75	
RN-219	3.28E+04Y	1.00	1.790E+01	1.790E+01	1.006E+01	56.22	
RA-224	1.41E+10Y	1.00	4.619E+02	4.619E+02	0.598E+02	12.94	
RA-225	14.80D	5.54	6.276E+00	3.474E+01	1.205E+01	34.69	
RA-226	1602.00Y	1.00	3.729E+02	3.729E+02	6.838E+02	183.36	
AC-228	1.41E+10Y	1.00	2.341E+02	2.341E+02	0.136E+02	5.83	
PA-234M	4.47E+09Y	1.00	4.098E+02	4.098E+02	0.985E+02	24.03	
TH-234	4.47E+09Y	1.00	2.646E+02	2.646E+02	0.402E+02	15.19	
U-235	7.04E+08Y	1.00	2.823E+01	2.823E+01	0.707E+01	25.06	
			---	---			
	Total Activity :		2.326E+03	2.354E+03			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.08	4.423E+00	4.796E+00	0.813E+00	16.96	
AM-243	7380.00Y	1.00	1.375E+02	1.375E+02	0.242E+02	17.59	
			---	---			
	Total Activity :		1.419E+02	1.423E+02			

Nuclide Type : FISSION

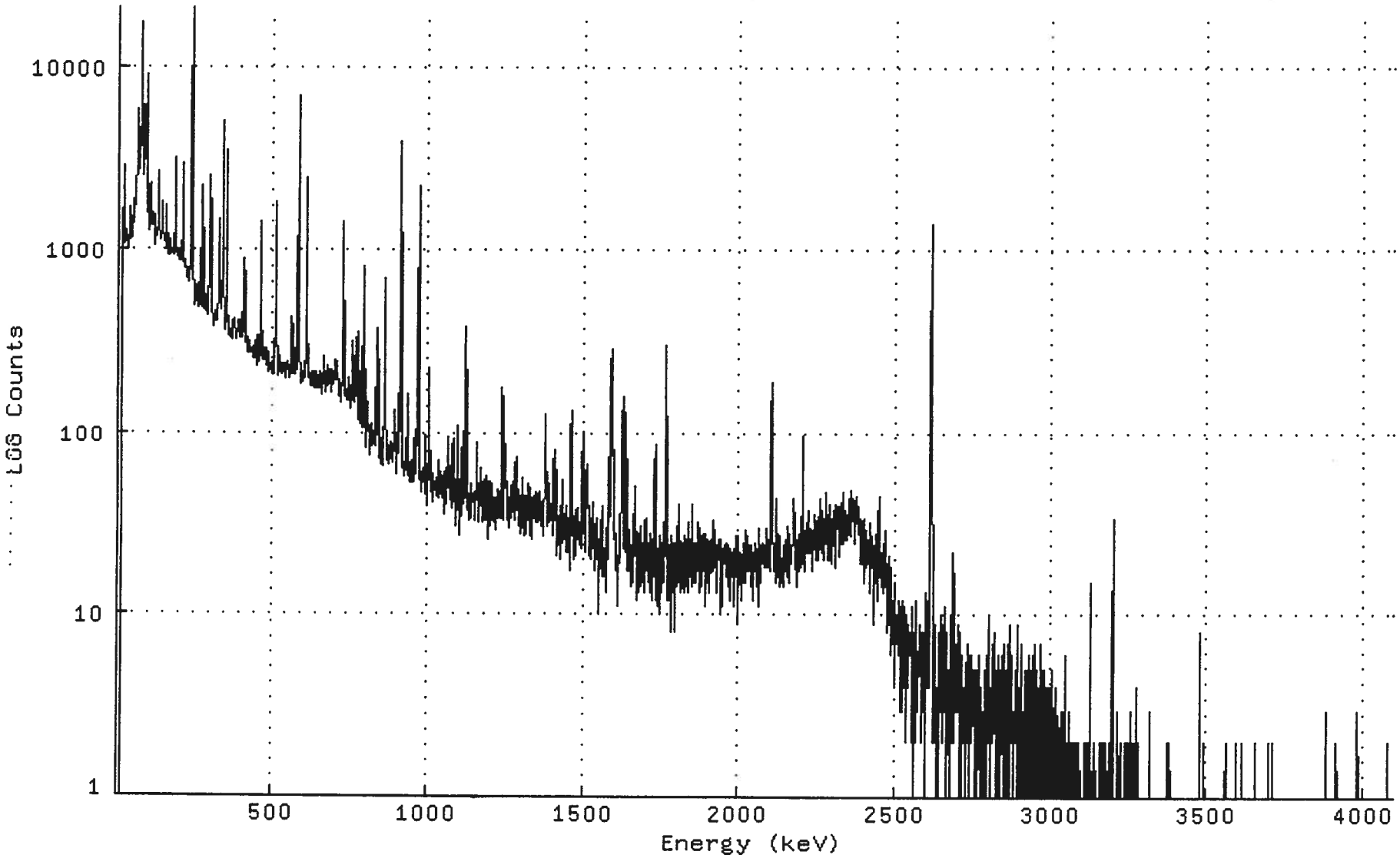
Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CD-109	464.00D	1.06	4.539E+02	4.793E+02	1.201E+02	25.06	
SN-126	1.00E+05Y	1.00	4.564E+01	4.564E+01	1.102E+01	24.14	
CS-134	2.06Y	1.03	8.827E-01	9.128E-01	4.837E-01	52.98	
EU-155	4.96Y	1.01	1.706E+01	1.730E+01	0.401E+01	23.16	
NP-237	2.14E+06Y	1.00	1.341E+02	1.341E+02	0.317E+02	23.64	
			---	---			
	Total Activity :		6.515E+02	6.773E+02			

Grand Total Activity : 3.119E+03 3.174E+03

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606117_GE1_GAS1002_151324.CNF;1
Title :
Sample Title: S-16

Start Time: 9-JUL-2010 12:20:	Sample Time: 3-JUN-2010 00:00:	Energy Offset: 6.08450E-01
Real Time : 0 01:00:21.75	Sample ID : 1006061-17	Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00	Sample Type: SOIL	Energy Quad : 0.00000E+00



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Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606117_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	1	16	1476
17:	1850	1687	1408	2820	1260	1066	1091	1273
25:	1191	1186	1129	1099	1040	1013	1184	1102
33:	1086	1104	1125	1151	1113	1272	1714	1196
41:	1145	1152	1254	1213	1449	1511	1295	1466
49:	1768	1593	1689	1841	1871	1739	1812	2020
57:	2316	2285	2409	2553	2951	5927	5372	2703
65:	2701	3513	4589	2935	2720	2904	3229	3908
73:	6077	13921	8367	17623	11219	3364	2541	3019
81:	2570	2512	4372	3890	3065	6085	5961	3421
89:	5593	4061	4352	8894	6300	2767	1726	1564
97:	1585	2050	2196	1622	1311	1274	1391	1869
105:	2251	1608	1397	1628	1571	1373	1410	1472
113:	1443	1528	1554	1241	1091	1039	1081	1101
121:	1201	1200	1200	1225	1303	1261	1379	2184
129:	2642	1454	1373	1253	1218	1245	1180	1137
137:	1169	1126	1180	1206	1229	1227	1806	1836
145:	1211	1211	1189	1106	1094	1096	1126	1132
153:	1451	1727	1180	1067	1001	973	996	914
161:	984	999	1212	1066	953	1017	985	932
169:	995	954	963	989	959	990	969	975
177:	991	1009	926	1009	987	1126	1321	1371
185:	3095	3028	1228	948	1001	931	954	919
193:	909	893	850	906	897	951	963	939
201:	872	865	864	943	1104	1065	1063	1571
209:	2893	1364	852	834	827	803	849	856
217:	792	771	743	727	771	782	716	738
225:	698	776	729	740	757	656	778	763
233:	777	883	2088	3537	4505	21755	14645	3359
241:	3516	2065	801	556	545	495	505	546
249:	511	546	518	618	625	595	597	643
257:	578	564	597	495	479	500	506	522
265:	492	508	654	715	1400	2198	1241	575
273:	483	555	587	723	1310	848	541	464
281:	471	494	528	538	462	554	548	608
289:	504	449	430	583	613	1211	2508	1072
297:	629	610	1094	1853	756	516	562	460
305:	424	401	376	417	414	425	397	455
313:	411	427	418	409	426	421	405	409
321:	454	487	478	505	521	512	1029	1461
329:	662	505	474	502	521	467	612	733
337:	1813	5017	2165	630	624	461	382	365
345:	370	383	357	416	588	796	2683	3458
353:	915	397	423	375	377	373	335	364
361:	350	334	355	325	329	345	367	318
369:	396	344	402	367	363	397	417	386
377:	369	364	358	319	351	336	354	358
385:	348	386	390	404	407	359	353	321
393:	403	344	364	361	335	410	390	408
401:	417	441	325	365	419	386	374	461
409:	889	628	347	312	299	307	355	301
417:	296	265	267	313	277	290	273	265
425:	279	307	288	284	279	283	271	282

433:	265	282	276	246	291	263	270	289
441:	290	275	276	306	260	263	228	274
449:	258	278	239	336	333	276	276	236
457:	265	244	258	310	297	885	1421	509
465:	246	290	257	243	258	241	254	241
473:	254	260	280	244	244	264	265	281
481:	277	239	212	259	240	270	250	252
489:	208	220	213	220	227	222	224	235
497:	225	236	226	212	219	212	263	303
505:	207	234	284	363	615	1684	1805	578
513:	286	288	249	232	220	200	221	237
521:	222	233	254	230	208	210	227	203
529:	212	211	215	232	234	214	234	212
537:	226	234	232	194	222	214	205	214
545:	214	237	235	232	231	232	209	213
553:	195	205	217	226	215	219	207	213
561:	239	420	353	247	224	206	221	226
569:	209	241	282	274	245	206	223	227
577:	214	213	244	365	553	2541	6888	3024
585:	527	353	274	197	202	192	218	180
593:	190	201	184	205	212	207	208	196
601:	202	207	195	237	208	251	313	852
609:	2441	1458	357	248	205	205	195	217
617:	195	199	204	186	189	178	177	198
625:	178	198	183	176	186	208	205	190
633:	171	175	194	208	197	181	191	202
641:	208	172	173	189	192	197	177	195
649:	211	178	204	204	171	193	205	160
657:	207	196	199	196	207	181	180	183
665:	255	237	206	195	165	211	188	186
673:	175	212	200	226	197	176	222	213
681:	192	188	208	202	194	163	186	204
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3785:	1	0	0	0	0	0	0	0

3793:	0	0	0	0	0	0	0	1
3801:	0	0	0	1	1	0	0	1
3809:	0	1	1	0	1	0	0	0
3817:	0	0	0	0	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	0	0	0	0	0
3841:	1	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	0	0
3857:	0	1	0	0	0	0	0	0
3865:	0	0	0	0	0	1	0	0
3873:	0	0	0	0	1	0	0	1
3881:	0	0	3	0	0	0	0	0
3889:	0	0	0	0	0	0	0	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	0	0	0	0	1	0
3913:	0	2	0	0	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	1	0	0	0	0	0	1
3945:	0	0	0	0	0	0	0	0
3953:	0	0	1	0	0	0	1	0
3961:	1	0	0	0	1	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	3	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	1	0	0	0	0	0	0
4001:	0	0	0	0	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	1	0	1	0	0
4025:	0	0	0	0	0	0	0	0
4033:	0	1	0	0	0	0	0	1
4041:	0	0	0	0	0	0	0	1
4049:	0	1	0	0	1	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	2	1
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

Sample ID : 1006061-18 Acquisition date : 9-JUL-2010 12:53:43

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VAX/VMS Peak Search Report Generated 9-JUL-2010 13:54:10.13

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606118_GE4_GAS1002_151326.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-17
Deposition Date :
Sample Date : 3-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 12:53:43.
Sample ID : 1006061-18 Sample Quantity : 2.11440E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:05.73 0.2%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	32.41	805	1564	2.03	32.42	27	13	17.1	8.97E-01	
3	36.69	267	1648	1.87	36.69	27	13	49.6		I-125
										PM-145
										PM-145
0	46.71*	742	2471	1.60	46.70	42	8	24.4		PB-210
0	53.01	223	2350	2.01	53.00	51	7	73.4		
0	76.68*	7687	5025	3.89	76.66	71	12	4.3		
3	87.46	1601	2678	2.55	87.44	83	12	12.6	5.71E+00	NP-237
										SN-126
										CD-109
3	90.03	549	2530	2.56	90.00	83	12	36.4		
0	138.65	104	1606	1.08	138.60	137	6	122.5		
0	186.44*	1257	2741	2.16	186.37	181	11	17.1		RA-226
0	242.06	2186	1908	2.15	241.97	236	12	9.1		RA-224
0	259.07	205	872	2.25	258.98	256	7	49.8		
0	275.50	187	1237	4.80	275.40	271	10	72.2		
0	295.60*	4258	1082	2.18	295.49	291	10	4.2		PB-214
0	352.28*	6526	1567	2.06	352.15	347	17	3.8		PB-214
0	480.34	58	409	3.00	480.16	477	8	122.5		
0	487.75	70	378	2.25	487.57	484	8	99.9		
0	533.76	57	290	1.88	533.56	529	8	106.5		
0	609.74*	4421	415	2.30	609.51	603	14	3.6		BI-214
0	627.74	75	204	4.65	627.49	623	9	72.2		
0	666.02	149	310	2.31	665.76	660	13	51.5		
0	702.78	63	233	3.43	702.50	699	9	90.9		
0	719.94	36	161	2.19	719.66	717	7	122.8		
0	756.00	78	270	10.20	755.70	750	13	89.8		
0	768.63*	410	225	2.52	768.33	763	11	17.3		
0	785.31	113	190	2.76	785.00	779	10	49.4		
0	806.45	82	203	3.25	806.13	802	9	66.7		
0	894.02	56	195	2.67	893.66	889	10	97.9		
0	934.51	202	211	2.67	934.14	929	11	31.2		
0	961.36	162	324	15.31	960.98	951	23	59.6		
0	1051.74	44	158	7.50	1051.32	1045	12	119.5		
0	1087.82	56	151	1.15	1087.39	1082	13	93.2		
2	1120.83	777	95	2.30	1120.38	1114	16	8.3	1.33E+00	BI-214

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Sample ID : 1006061-18 Acquisition date : 9-JUL-2010 12:53:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	1127.40	31	68	2.92	1126.95	1114	16	82.7		
0	1155.78	160	154	2.86	1155.32	1148	14	36.5		
0	1164.73	27	58	2.56	1164.26	1162	5	94.2		
0	1208.51	37	71	2.78	1208.02	1205	7	82.3		
0	1238.84	290	132	2.17	1238.34	1235	10	18.9		
8	1274.73	28	53	3.66	1274.22	1271	15	97.5	1.62E+00	NA-22
8	1281.60	87	90	3.25	1281.08	1271	15	45.9		
0	1303.62	26	53	2.37	1303.09	1300	7	102.0		
0	1378.44	183	117	2.41	1377.89	1373	10	26.8		
1	1402.32	75	57	2.74	1401.75	1397	16	43.5	2.04E+00	
1	1408.61	91	59	2.74	1408.04	1397	16	37.2		
0	1509.84	119	88	3.12	1509.23	1504	11	35.7		
0	1609.94	21	28	3.55	1609.29	1605	7	94.3		
0	1634.07	49	57	15.57	1633.41	1625	18	78.4		
0	1662.06	48	39	3.26	1661.39	1656	9	55.2		
0	1708.93	14	20	1.34	1708.24	1704	8	119.6		
0	1730.00	127	25	2.18	1729.30	1724	11	23.3		
0	1765.14	614	33	2.88	1764.42	1759	13	9.0		BI-214
5	1840.13	20	25	4.19	1839.38	1834	24	121.0	3.11E+00	
5	1848.06	69	29	2.87	1847.31	1834	24	36.6		
0	1874.43	27	10	3.26	1873.67	1869	10	58.3		
0	1903.89	17	17	7.07	1903.12	1898	11	107.3		
0	1968.66	21	24	7.52	1967.86	1962	11	100.5		
0	2108.80	9	2	1.60	2107.95	2104	7	81.3		
0	2118.59	55	0	4.55	2117.73	2111	13	27.0		
0	2149.87	22	3	4.40	2149.00	2143	13	55.3		
0	2173.93	11	3	6.55	2173.05	2168	11	83.1		
0	2204.77	175	7	2.41	2203.88	2197	14	16.4		BI-214
0	2293.35	10	6	1.20	2292.41	2286	10	122.5		
0	2448.44	49	3	2.12	2447.45	2442	10	30.9		
0	2615.75*	15	0	1.33	2614.69	2610	9	55.7		

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Total number of lines in spectrum	63	
Number of unidentified lines	41	
Number of lines tentatively identified by NID	22	34.92%

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
NA-22	2.60Y	1.03	5.383E-01	5.528E-01	5.422E-01	98.08	
CD-109	464.00D	1.06	9.462E+01	9.993E+01	1.739E+01	17.40	
I-125	60.14D	1.52	1.444E+01	2.200E+01	1.122E+01	51.01	
SN-126	1.00E+05Y	1.00	9.510E+00	9.510E+00	1.554E+00	16.34	
PM-145	17.70Y	1.00	4.134E+00	4.150E+00	3.411E+00	82.18	
NP-237	2.14E+06Y	1.00	2.790E+01	2.790E+01	0.454E+01	16.27	
			---	---			
	Total Activity :		1.511E+02	1.641E+02			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
PB-210	22.26Y	1.00	4.949E+01	4.964E+01	1.298E+01	26.14	
BI-214	1602.00Y	1.00	9.084E+01	9.085E+01	0.658E+01	7.25	
PB-214	1602.00Y	1.00	9.623E+01	9.623E+01	1.085E+01	11.28	
RA-224	1.41E+10Y	1.00	2.062E+02	2.062E+02	0.334E+02	16.19	
RA-226	1602.00Y	1.00	1.162E+02	1.162E+02	2.138E+02	184.03	
			---	---			
	Total Activity :		5.589E+02	5.591E+02			

Grand Total Activity : 7.101E+02 7.232E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
NA-22	1274.54	99.94*	1.861E-01	5.383E-01	5.528E-01	98.08	OK
Final Mean for 1 Valid Peaks = 5.528E-01+/- 5.422E-01 (98.08%)							
CD-109	88.03	3.72*	1.615E+00	9.462E+01	9.993E+01	17.40	OK
Final Mean for 1 Valid Peaks = 9.993E+01+/- 1.739E+01 (17.40%)							
I-125	35.49	6.49*	1.011E+00	1.444E+01	2.200E+01	51.01	OK
Final Mean for 1 Valid Peaks = 2.200E+01+/- 1.122E+01 (51.01%)							
SN-126	87.57	37.00*	1.615E+00	9.510E+00	9.510E+00	16.34	OK
Final Mean for 1 Valid Peaks = 9.510E+00+/- 1.554E+00 (16.34%)							
PM-145	36.85	21.70*	1.055E+00	4.134E+00	4.150E+00	82.18	OK
	37.36	39.70	1.072E+00	2.225E+00	2.234E+00	79.01	<<WM Interf
	42.30	15.10	1.214E+00	-----	Line Not Found	-----	Absent
	72.40	2.31	1.602E+00	-----	Line Not Found	-----	Absent
Final Mean for 1 Valid Peaks = 4.150E+00+/- 3.411E+00 (82.18%)							
NP-237	86.50	12.60*	1.617E+00	2.790E+01	2.790E+01	16.27	OK
Final Mean for 1 Valid Peaks = 2.790E+01+/- 4.541E+00 (16.27%)							

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
PB-210	46.50	4.05*	1.314E+00	4.949E+01	4.964E+01	26.14	OK
Final Mean for 1 Valid Peaks = 4.964E+01+/- 1.298E+01 (26.14%)							
BI-214	609.31	46.30*	3.759E-01	9.019E+01	9.019E+01	14.01	OK
	1120.29	15.10	2.073E-01	8.816E+01	8.816E+01	13.08	OK
	1764.49	15.80	1.482E-01	9.315E+01	9.316E+01	13.48	OK
	2204.22	4.98	1.326E-01	9.410E+01	9.410E+01	19.55	OK
Final Mean for 4 Valid Peaks = 9.085E+01+/- 6.584E+00 (7.25%)							
PB-214	295.21	19.19	7.915E-01	9.954E+01	9.954E+01	16.31	OK
	351.92	37.19*	6.661E-01	9.355E+01	9.355E+01	15.60	OK
Final Mean for 2 Valid Peaks = 9.623E+01+/- 1.085E+01 (11.28%)							
RA-224	240.98	3.95*	9.529E-01	2.062E+02	2.062E+02	16.19	OK
Final Mean for 1 Valid Peaks = 2.062E+02+/- 3.339E+01 (16.19%)							

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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
RA-226	186.21	3.28*	1.172E+00	1.162E+02	1.162E+02	184.03	OK

Final Mean for 1 Valid Peaks = 1.162E+02+/- 2.138E+02 (184.03%)

Flag: "*" = Keyline

Sample ID : 1006061-18 Acquisition date : 9-JUL-2010 12:53:43

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
NA-22	5.528E-01	5.422E-01	8.810E-01	8.330E-02	0.628
CD-109	9.993E+01	1.739E+01	1.210E+01	1.368E+00	8.262
I-125	2.200E+01	1.122E+01	1.513E+01	1.672E+00	1.454
SN-126	9.510E+00	1.554E+00	1.151E+00	1.104E-01	8.263
PM-145	4.150E+00	3.411E+00	2.960E+00	1.935E+00	1.402
PB-210	4.964E+01	1.298E+01	1.308E+01	1.112E+00	3.795
BI-214	9.085E+01	6.584E+00	1.414E+00	1.830E-01	64.261
PB-214	9.623E+01	1.085E+01	1.671E+00	2.440E-01	57.579
RA-224	2.062E+02	3.339E+01	1.360E+01	1.740E+00	15.166
RA-226	1.162E+02	2.138E+02	1.667E+01	3.053E+01	6.971
NP-237	2.790E+01	4.541E+00	3.376E+00	3.203E-01	8.266

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	4.855E-01		7.104E+00	1.053E+01	1.477E+00	0.046
AL-26	2.031E-01		3.268E-01	6.528E-01	5.927E-02	0.311
K-40	2.695E+00		5.323E+00	9.721E+00	9.620E-01	0.277
TI-44	8.461E-02		3.862E-01	5.857E-01	4.612E-02	0.144
SC-46	6.169E-02		7.173E-01	1.134E+00	1.104E-01	0.054
V-48	-2.001E-01		2.486E+00	4.391E+00	4.221E-01	-0.046
CR-51	-3.720E+00		8.856E+00	1.452E+01	2.229E+00	-0.256
MN-54	-4.109E-01		5.548E-01	8.740E-01	9.226E-02	-0.470
CO-56	-6.866E-01		7.402E-01	1.150E+00	1.195E-01	-0.597
CO-57	-2.647E-01		3.324E-01	5.480E-01	5.651E-02	-0.483
CO-58	6.230E-02		7.781E-01	1.151E+00	1.252E-01	0.054
FE-59	-8.106E-01		1.774E+00	2.674E+00	2.680E-01	-0.303
CO-60	1.875E-01		5.882E-01	9.895E-01	8.973E-02	0.189
ZN-65	1.881E+00		1.316E+00	2.256E+00	2.104E-01	0.834
SE-75	-1.252E+00		8.644E-01	1.075E+00	1.539E-01	-1.165
RB-82	4.924E+00		1.217E+01	1.485E+01	1.665E+00	0.332
RB-83	-4.785E-01		1.086E+00	1.764E+00	3.367E-01	-0.271
KR-85	5.274E+01		9.318E+01	1.578E+02	2.202E+01	0.334
SR-85	3.386E-01		5.983E-01	1.013E+00	1.414E-01	0.334
Y-88	3.390E-01		4.643E-01	8.546E-01	7.687E-02	0.397
NB-93M	4.486E+01		2.490E+01	2.468E+01	1.147E+01	1.818
NB-94	3.904E-01		5.248E-01	9.001E-01	9.031E-02	0.434
NB-95	6.600E+00		1.684E+00	2.394E+00	2.711E-01	2.756
ZR-95	2.473E+00	+	2.242E+00	2.109E+00	2.545E-01	1.173
RU-103	2.638E-01		8.710E-01	1.395E+00	2.505E-01	0.189
RU-106	3.142E+00		5.608E+00	6.937E+00	1.131E+00	0.453
AG-108M	1.226E-01		5.492E-01	8.230E-01	9.568E-02	0.149
AG-110M	-3.130E-02		5.388E-01	7.938E-01	9.486E-02	-0.039
SN-113	1.166E-01		7.967E-01	1.325E+00	1.817E-01	0.088
TE123M	-3.722E-01		4.682E-01	7.694E-01	6.981E-02	-0.484
SB-124	-1.385E-01		7.615E-01	1.110E+00	1.449E-01	-0.125
SB-125	1.872E-01		1.509E+00	2.507E+00	3.499E-01	0.075

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---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
SB-126	5.779E+00	+	7.133E+00	1.085E+01	1.262E+00	0.533
I-129	3.100E+00		1.033E+00	1.601E+00	2.238E-01	1.936
I-131	-1.485E+01		1.219E+01	1.683E+01	2.410E+00	-0.883
BA-133	1.697E+01		3.229E+00	2.118E+00	3.733E-01	8.013
CS-134	1.644E+00		6.286E-01	9.855E-01	1.285E-01	1.668
CS-135	-2.278E-01		2.543E+00	3.437E+00	4.991E-01	-0.066
CS-136	8.571E-01		4.519E+00	7.226E+00	7.057E-01	0.119
CS-137	5.941E-02		5.585E-01	8.310E-01	9.864E-02	0.071
LA-138	2.109E-01		8.263E-01	1.491E+00	1.444E-01	0.141
CE-139	-1.044E-03		4.642E-01	7.755E-01	6.826E-02	-0.001
BA-140	3.135E+00		1.278E+01	1.912E+01	6.664E+00	0.164
LA-140	4.209E+00		3.905E+00	7.483E+00	7.152E-01	0.563
CE-141	-1.575E+00		1.600E+00	2.255E+00	6.104E-01	-0.698
CE-144	-1.213E+00		3.160E+00	4.696E+00	4.672E-01	-0.258
PM-144	2.618E-01		4.861E-01	7.479E-01	8.802E-02	0.350
PM-146	1.622E+00		1.028E+00	1.757E+00	2.457E-01	0.923
ND-147	1.024E+01		3.375E+01	5.077E+01	7.040E+00	0.202
EU-152	1.255E+01	+	4.927E+00	8.571E+00	1.009E+00	1.464
GD-153	-1.905E+00		1.241E+00	2.003E+00	1.969E-01	-0.951
EU-154	1.527E+00	+	1.498E+00	2.511E+00	2.375E-01	0.608
EU-155	1.154E+01	+	1.878E+00	2.054E+00	1.948E-01	5.618
EU-156	-3.042E+01		2.929E+01	3.812E+01	9.062E+00	-0.798
HO-166M	-3.057E-01		1.168E+00	1.307E+00	1.528E-01	-0.234
HF-172	-3.510E-01		2.426E+00	4.061E+00	4.137E-01	-0.086
LU-172	-1.894E+01		3.866E+01	5.813E+01	5.460E+00	-0.326
LU-173	3.392E+00		1.957E+00	2.968E+00	4.385E-01	1.143
HF-175	-5.457E-01		7.283E-01	1.041E+00	1.536E-01	-0.524
LU-176	1.547E-01		3.562E-01	5.990E-01	9.096E-02	0.258
TA-182	4.764E+01	+	6.232E+00	8.585E+00	7.980E-01	5.549
IR-192	2.819E-01		1.160E+00	1.942E+00	2.722E-01	0.145
HG-203	5.363E-01		8.501E-01	1.284E+00	1.976E-01	0.418
BI-207	-1.709E-02		4.319E-01	7.166E-01	9.684E-02	-0.024
TL-208	1.369E+00		1.482E+00	2.534E+00	3.381E-01	0.540
BI-210M	1.255E+00		8.253E-01	1.258E+00	1.776E-01	0.998
PB-211	6.605E+00		1.479E+01	2.476E+01	3.385E+00	0.267
BI-212	2.494E+00		4.030E+00	6.220E+00	7.215E-01	0.401
PB-212	5.070E+00		1.148E+00	1.571E+00	1.988E-01	3.228
RN-219	-3.306E-01		6.544E+00	1.082E+01	1.476E+00	-0.031
RA-223	8.746E+00		9.126E+00	1.542E+01	2.319E+00	0.567
RA-225	2.331E+00		8.688E+00	1.063E+01	1.031E+00	0.219
TH-227	2.636E+00		3.312E+00	5.014E+00	6.267E-01	0.526
AC-228	2.021E+00		1.870E+00	3.453E+00	3.317E-01	0.585
TH-230	2.040E+01		9.865E+01	1.496E+02	1.176E+01	0.136
PA-231	-5.107E+00		1.626E+01	2.385E+01	3.628E+00	-0.214
TH-231	-6.327E+00		4.767E+00	6.868E+00	1.225E+00	-0.921
PA-233	-2.930E-01		2.248E+00	3.726E+00	9.570E-01	-0.079
PA-234	1.420E+00		1.412E+00	2.289E+00	2.294E-01	0.620
PA-234M	2.148E+01		5.250E+01	9.534E+01	9.149E+00	0.225

Sample ID : 1006061-18 Acquisition date : 9-JUL-2010 12:53:43

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TH-234	5.679E+00		9.063E+00	1.475E+01	1.117E+00	0.385
U-235	-9.709E-01		3.184E+00	4.729E+00	8.521E-01	-0.205
AM-241	-2.065E+00		1.025E+00	1.472E+00	1.084E-01	-1.403
AM-243	1.725E+01		1.758E+00	1.382E+00	1.160E-01	12.485
CM-243	2.822E+00		2.784E+00	4.223E+00	6.393E-01	0.668

Sample ID : 1006061-18
Acquisition date : 9-JUL-2010 12:53:43

Total number of lines in spectrum	63	
Number of unidentified lines	41	
Number of lines tentatively identified by NID	22	34.92%

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
NA-22	2.60Y	1.03	5.383E-01	5.528E-01	5.422E-01	98.08	
CD-109	464.00D	1.06	9.462E+01	9.993E+01	1.739E+01	17.40	
I-125	60.14D	1.52	1.444E+01	2.200E+01	1.122E+01	51.01	
SN-126	1.00E+05Y	1.00	9.510E+00	9.510E+00	1.554E+00	16.34	
PM-145	17.70Y	1.00	4.134E+00	4.150E+00	3.411E+00	82.18	
NP-237	2.14E+06Y	1.00	2.790E+01	2.790E+01	0.454E+01	16.27	
			---	---			
	Total Activity :		1.511E+02	1.641E+02			

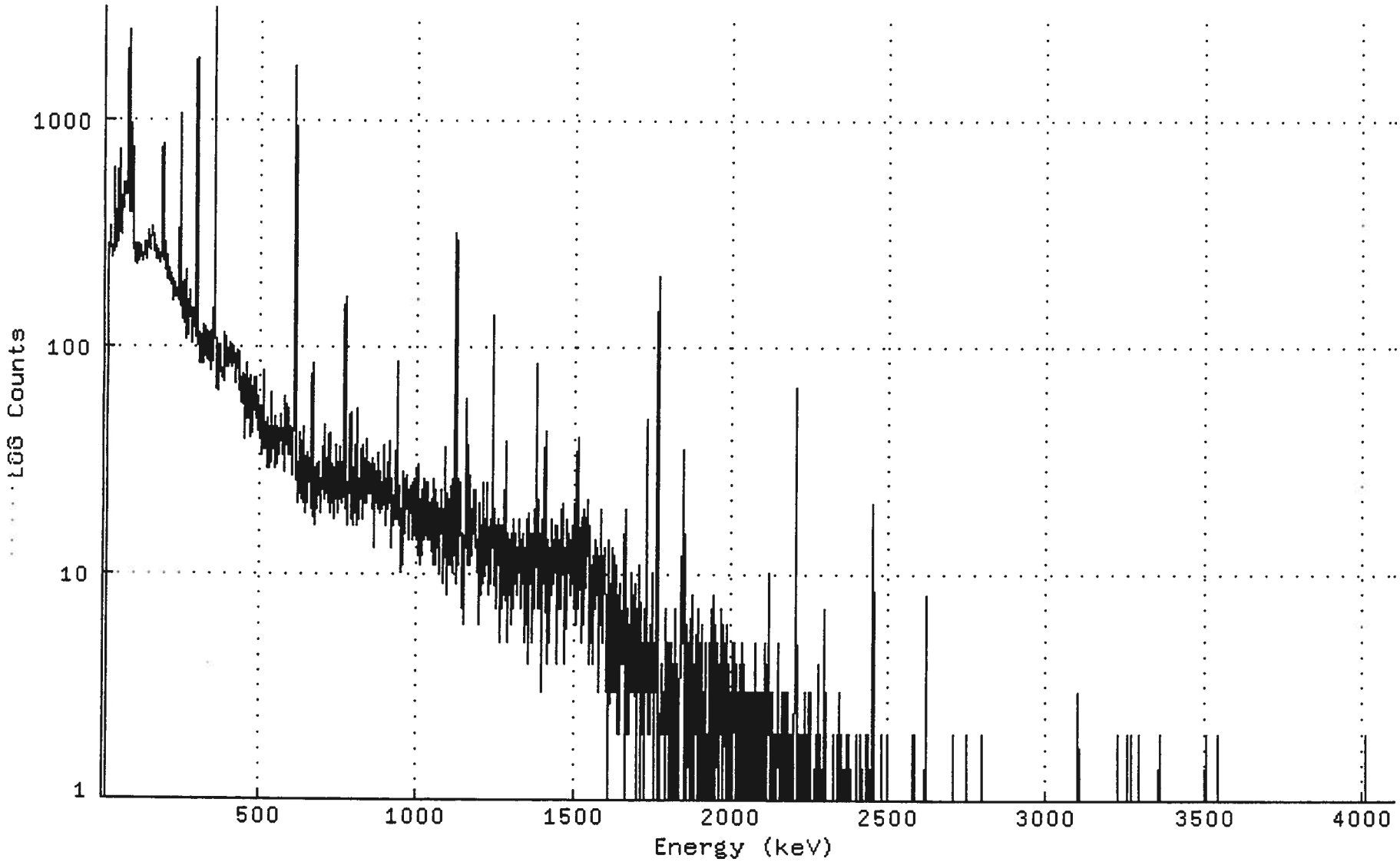
Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
PB-210	22.26Y	1.00	4.949E+01	4.964E+01	1.298E+01	26.14	
BI-214	1602.00Y	1.00	9.084E+01	9.085E+01	0.658E+01	7.25	
PB-214	1602.00Y	1.00	9.623E+01	9.623E+01	1.085E+01	11.28	
RA-224	1.41E+10Y	1.00	2.062E+02	2.062E+02	0.334E+02	16.19	
RA-226	1602.00Y	1.00	1.162E+02	1.162E+02	2.138E+02	184.03	
			---	---			
	Total Activity :		5.589E+02	5.591E+02			

Grand Total Activity : 7.101E+02 7.232E+02

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606118_GE4_GAS1002_151326.CNF;1
Title :
Sample Title: S-17
Start Time: 9-JUL-2010 12:53: Sample Time: 3-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:05.73 Sample ID : 1006061-18 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606118_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	3	237
17:	339	295	281	312	304	281	257	276
25:	251	250	246	276	272	262	346	607
33:	549	350	294	363	395	330	270	291
41:	295	285	319	335	309	489	735	452
49:	318	335	333	356	448	448	338	339
57:	311	363	428	414	456	459	466	521
65:	503	470	478	486	513	458	465	458
73:	518	1001	1757	1698	2492	2155	839	533
81:	427	382	383	425	407	515	921	943
89:	608	567	450	341	325	293	277	244
97:	271	282	247	260	231	235	232	226
105:	279	268	282	277	280	258	236	251
113:	279	269	257	245	270	256	260	253
121:	252	235	243	240	256	250	266	281
129:	286	281	275	267	267	287	269	242
137:	257	326	272	297	278	280	281	296
145:	286	278	297	266	303	312	333	307
153:	332	317	329	299	278	293	281	259
161:	283	257	267	274	249	241	253	268
169:	260	245	242	264	265	235	233	239
177:	233	253	234	256	245	253	272	268
185:	378	737	782	363	239	241	246	250
193:	214	250	227	285	251	224	251	236
201:	223	242	193	221	220	202	190	207
209:	189	192	207	184	193	202	200	198
217:	175	165	187	174	158	194	182	172
225:	177	163	174	179	164	174	175	167
233:	167	163	155	183	172	220	229	234
241:	465	1037	835	266	160	150	143	157
249:	132	132	138	185	137	147	134	126
257:	140	169	215	181	138	108	133	119
265:	124	113	112	125	155	140	134	144
273:	140	172	169	136	149	144	132	104
281:	123	135	117	122	127	131	126	129
289:	145	109	114	116	133	510	1799	1831
297:	506	120	112	102	109	103	83	106
305:	101	105	114	84	113	97	95	93
313:	108	101	90	123	83	99	90	90
321:	95	111	122	93	93	116	97	102
329:	87	94	88	110	114	112	88	108
337:	85	109	116	114	88	78	95	109
345:	85	114	112	103	107	195	1218	3133
353:	2117	380	107	107	83	64	102	70
361:	75	63	62	102	71	88	80	77
369:	85	81	101	85	88	76	73	76
377:	79	71	78	74	85	101	69	114
385:	89	99	106	109	95	102	80	98
393:	96	84	98	87	81	87	89	92
401:	90	103	84	89	97	94	95	97
409:	81	101	84	84	88	89	83	99
417:	80	87	93	81	68	87	94	96
425:	93	79	88	88	94	64	62	75

433:	71	66	66	55	62	55	72	64
441:	75	57	54	60	66	63	59	62
449:	39	68	56	73	55	68	84	73
457:	60	47	63	50	70	56	66	66
465:	54	40	62	51	70	58	73	58
473:	46	41	60	54	47	55	67	72
481:	68	56	51	51	52	58	71	69
489:	47	55	45	44	42	59	43	47
497:	50	52	46	41	40	53	51	33
505:	53	43	41	35	43	77	71	56
513:	52	40	35	44	43	37	39	37
521:	35	44	29	47	43	34	41	44
529:	29	43	42	45	44	61	52	31
537:	41	39	36	36	44	38	35	48
545:	42	41	36	46	48	29	40	44
553:	39	40	30	32	43	37	34	33
561:	41	39	38	41	40	38	49	40
569:	36	43	38	41	41	33	54	38
577:	40	28	40	59	51	37	48	51
585:	44	37	41	52	36	40	35	33
593:	40	44	33	39	36	39	35	43
601:	27	42	27	40	46	42	62	533
609:	1699	1702	518	46	30	32	33	31
617:	20	23	29	31	28	26	22	30
625:	27	41	30	39	38	31	21	22
633:	32	33	20	24	30	30	22	25
641:	44	25	32	18	22	29	30	27
649:	31	34	20	28	29	28	29	28
657:	27	25	32	19	29	27	27	37
665:	66	84	51	25	24	36	18	16
673:	29	28	27	27	23	20	28	30
681:	26	19	28	31	25	31	22	29
689:	25	18	21	24	19	22	25	27
697:	34	26	23	32	33	39	43	45
705:	34	21	26	28	22	26	32	25
713:	25	20	27	29	23	25	40	41
721:	29	21	18	24	30	22	30	23
729:	26	28	20	21	24	17	29	18
737:	24	29	29	27	37	30	29	21
745:	21	30	31	25	23	18	31	25
753:	34	36	26	21	23	27	27	31
761:	29	20	22	26	30	33	82	141
769:	163	70	28	23	19	21	25	25
777:	19	16	24	20	24	31	23	23
785:	43	48	50	17	19	21	26	18
793:	29	25	20	21	16	24	25	21
801:	26	19	18	33	41	52	50	35
809:	16	20	25	17	22	21	19	23
817:	29	35	21	29	28	25	21	26
825:	31	37	21	17	21	22	24	20
833:	22	21	32	20	20	33	35	39
841:	31	31	25	25	22	27	26	22
849:	22	27	30	24	23	22	25	20
857:	19	32	22	24	26	22	22	13
865:	30	20	24	28	22	27	28	23
873:	28	34	28	19	26	21	23	28
881:	27	20	18	22	25	21	23	21
889:	19	20	21	30	37	35	22	26
897:	24	16	22	22	24	19	31	20
905:	24	21	31	24	20	24	36	38

913:	21	30	22	20	24	14	13	22
921:	16	16	19	21	17	19	25	19
929:	21	32	17	22	54	86	84	40
937:	20	17	20	17	24	17	21	16
945:	17	11	18	19	11	10	14	18
953:	11	24	26	28	23	25	26	18
961:	15	26	20	26	21	19	27	20
969:	23	21	21	20	14	18	19	24
977:	22	18	19	23	17	19	25	22
985:	14	25	18	15	19	26	25	15
993:	14	29	20	14	14	20	13	20
1001:	16	18	21	30	13	11	21	15
1009:	16	19	18	21	20	21	20	12
1017:	23	14	16	15	26	17	14	15
1025:	22	15	25	17	19	14	19	16
1033:	17	25	21	18	18	16	20	15
1041:	15	13	16	15	13	21	14	11
1049:	19	16	16	24	26	13	18	11
1057:	14	18	23	17	14	17	13	15
1065:	20	16	15	10	19	17	14	23
1073:	15	23	17	20	17	19	10	16
1081:	12	9	15	15	15	14	36	15
1089:	17	8	22	20	11	10	15	12
1097:	11	14	21	19	12	15	19	21
1105:	24	11	16	14	19	10	13	26
1113:	13	14	14	20	12	32	125	314
1121:	274	93	23	9	14	14	26	18
1129:	11	16	19	11	25	18	18	17
1137:	21	17	12	10	12	7	15	14
1145:	12	6	12	9	13	12	18	15
1153:	13	39	58	45	30	19	13	18
1161:	12	11	20	15	27	11	12	13
1169:	16	17	12	14	18	16	22	23
1177:	18	16	15	21	21	23	18	20
1185:	17	13	16	11	13	13	12	14
1193:	10	20	9	11	6	11	14	11
1201:	16	12	10	14	8	16	20	25
1209:	20	10	9	10	14	12	17	11
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1233:	10	10	17	13	65	137	98	29
1241:	18	13	19	13	13	14	11	7
1249:	11	12	14	16	16	14	17	15
1257:	12	11	17	13	16	5	11	8
1265:	14	9	16	16	8	7	7	11
1273:	9	23	12	15	8	12	16	26
1281:	36	38	18	11	5	15	9	9
1289:	14	10	13	8	14	14	14	11
1297:	9	15	6	7	10	12	17	17
1305:	7	9	8	10	11	10	14	9
1313:	15	11	12	8	11	10	10	10
1321:	17	13	10	17	12	10	14	7
1329:	13	10	9	12	10	10	9	15
1337:	13	10	11	13	11	5	11	5
1345:	7	12	10	17	10	12	15	13
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1361:	12	11	15	11	15	5	13	12
1369:	6	10	9	13	17	7	10	36
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1385:	17	21	7	7	9	11	9	15

1393:	14	9	6	11	3	17	12	16
1401:	29	36	18	15	9	15	32	42
1409:	33	11	11	4	11	12	14	10
1417:	9	5	13	12	11	8	10	15
1425:	11	17	8	16	13	11	11	10
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1449:	14	7	8	8	10	18	10	10
1457:	10	7	10	18	20	16	11	14
1465:	10	16	6	13	9	13	8	4
1473:	8	13	12	17	12	12	13	15
1481:	14	13	10	11	10	14	11	8
1489:	14	11	13	10	13	9	9	16
1497:	9	8	13	12	7	20	6	9
1505:	8	13	18	30	40	36	17	14
1513:	15	7	10	11	13	15	10	15
1521:	17	11	8	5	13	16	19	8
1529:	13	11	18	6	12	17	15	9
1537:	10	15	21	15	14	12	17	13
1545:	12	13	16	6	6	12	4	8
1553:	8	6	5	11	8	12	11	7
1561:	4	8	11	9	12	13	14	7
1569:	11	9	13	12	11	10	8	8
1577:	6	3	11	12	10	10	19	11
1585:	13	10	6	12	10	5	8	9
1593:	8	13	12	9	9	9	13	5
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1609:	7	14	1	7	6	3	4	8
1617:	9	3	9	4	8	13	6	4
1625:	4	12	6	6	3	5	8	11
1633:	6	3	6	5	3	5	6	8
1641:	7	2	3	9	2	5	6	8
1649:	6	4	4	6	4	4	10	4
1657:	10	6	10	15	14	19	9	0
1665:	4	6	5	4	6	7	3	2
1673:	6	6	2	2	2	3	4	3
1681:	10	8	6	7	8	7	5	5
1689:	3	6	3	4	9	9	7	4
1697:	2	1	6	6	4	7	3	3
1705:	3	3	4	11	5	2	3	1
1713:	3	4	2	3	3	4	3	5
1721:	5	5	2	0	7	7	3	12
1729:	47	45	14	7	5	5	2	3
1737:	2	5	3	4	3	6	3	2
1745:	4	6	4	5	10	4	3	5
1753:	2	4	2	1	5	4	4	3
1761:	3	33	111	187	200	87	12	1
1769:	3	2	1	2	1	2	0	4
1777:	3	2	3	3	3	2	3	2
1785:	2	3	3	2	1	1	7	2
1793:	3	4	5	4	4	3	2	5
1801:	1	2	2	4	3	4	5	5
1809:	3	3	1	3	2	2	1	4
1817:	1	7	2	2	5	1	6	2
1825:	0	4	0	3	2	3	0	1
1833:	3	1	0	3	4	12	6	7
1841:	4	5	5	6	6	13	35	25
1849:	9	1	1	1	3	2	4	4
1857:	2	6	3	1	2	3	3	2
1865:	5	3	3	0	2	2	1	5

1873:	8	7	5	2	4	1	1	4
1881:	2	1	2	4	3	2	5	5
1889:	2	5	6	1	4	2	2	7
1897:	0	3	5	1	5	1	6	2
1905:	6	1	3	0	3	1	3	2
1913:	2	2	2	3	5	1	1	4
1921:	0	2	2	0	2	2	1	2
1929:	4	0	1	2	5	0	3	7
1937:	3	2	2	3	4	5	8	1
1945:	0	6	1	3	3	3	5	4
1953:	5	5	3	3	2	0	2	3
1961:	4	2	2	6	7	7	2	4
1969:	5	3	6	1	2	2	1	3
1977:	2	4	2	5	4	2	3	6
1985:	4	5	1	4	2	1	0	4
1993:	2	3	0	3	2	2	2	1
2001:	5	2	3	0	5	2	5	4
2009:	4	3	3	4	1	2	1	4
2017:	3	2	3	1	2	2	3	2
2025:	3	1	2	1	4	1	3	1
2033:	0	1	5	2	1	4	0	2
2041:	2	2	3	2	1	0	2	3
2049:	1	3	2	0	2	3	0	2
2057:	3	1	1	1	2	0	2	1
2065:	3	3	2	1	2	3	2	2
2073:	1	1	5	0	2	2	1	2
2081:	3	3	1	1	2	2	1	2
2089:	2	3	0	0	2	1	0	0
2097:	3	2	2	1	1	3	1	0
2105:	1	1	2	5	2	0	0	4
2113:	3	1	3	2	7	10	10	8
2121:	6	1	0	0	0	2	3	0
2129:	3	1	3	1	1	0	1	2
2137:	0	2	2	2	0	0	0	1
2145:	0	2	4	3	5	4	2	1
2153:	1	2	0	1	2	0	0	1
2161:	0	2	3	3	0	2	0	0
2169:	0	3	2	2	0	1	2	2
2177:	1	1	0	3	1	2	2	0
2185:	0	1	0	2	0	0	0	2
2193:	1	0	1	1	0	1	2	1
2201:	6	16	36	65	41	8	3	1
2209:	1	1	0	1	0	0	0	0
2217:	2	0	0	2	0	1	0	1
2225:	0	0	1	2	1	2	0	1
2233:	1	0	0	3	0	1	1	2
2241:	0	0	0	0	2	3	0	0
2249:	0	3	0	0	1	0	1	0
2257:	1	1	1	0	1	1	1	1
2265:	1	0	2	0	1	1	0	2
2273:	0	0	2	0	1	4	0	2
2281:	2	1	0	0	0	0	1	1
2289:	1	1	1	2	7	2	0	3
2297:	1	0	0	0	3	0	1	0
2305:	1	1	0	0	0	0	1	1
2313:	0	1	1	1	1	0	0	1
2321:	1	0	2	0	1	0	0	0
2329:	0	1	1	0	1	0	0	0
2337:	2	1	0	0	0	0	3	1
2345:	0	0	0	1	0	0	2	0

2353:	0	1	1	0	0	0	1	1
2361:	0	1	1	2	1	2	0	1
2369:	1	0	0	0	0	1	0	2
2377:	0	1	0	0	0	1	0	1
2385:	0	0	0	0	0	0	0	1
2393:	1	1	1	1	2	1	0	1
2401:	0	1	0	1	0	0	0	0
2409:	0	1	0	2	0	1	1	0
2417:	0	0	1	0	0	1	0	1
2425:	0	1	1	1	0	2	0	2
2433:	1	0	0	1	0	0	0	0
2441:	1	0	2	0	2	5	20	17
2449:	4	2	0	0	0	1	1	0
2457:	0	0	0	1	0	0	0	0
2465:	0	0	0	0	0	0	0	0
2473:	1	0	2	0	0	0	0	0
2481:	0	0	0	0	0	1	1	1
2489:	0	0	0	0	0	0	0	2
2497:	0	0	0	0	0	0	0	1
2505:	0	0	0	1	1	0	0	0
2513:	0	0	0	0	0	0	0	1
2521:	0	0	1	1	0	0	0	1
2529:	1	0	1	0	0	0	0	0
2537:	0	0	0	1	1	0	0	0
2545:	1	0	0	1	0	0	0	0
2553:	0	0	0	0	0	0	0	0
2561:	0	0	0	1	1	0	0	0
2569:	0	0	1	0	0	1	2	1
2577:	0	2	0	1	0	0	1	0
2585:	1	0	1	0	0	0	0	0
2593:	1	0	0	0	0	0	0	0
2601:	0	1	0	0	0	0	0	0
2609:	0	0	0	0	2	8	2	1
2617:	3	0	0	0	0	1	0	0
2625:	0	0	1	0	0	1	0	0
2633:	1	1	0	0	0	0	0	0
2641:	0	0	1	1	0	0	0	0
2649:	1	0	0	0	0	0	0	0
2657:	0	0	0	1	0	0	1	0
2665:	0	0	0	0	0	0	0	0
2673:	0	0	0	0	0	0	0	0
2681:	0	0	0	0	1	0	0	0
2689:	0	0	0	0	1	0	0	0
2697:	0	0	0	2	0	1	0	0
2705:	0	0	0	0	0	0	0	1
2713:	0	0	0	1	0	0	1	0
2721:	1	0	1	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	0	0	1	0	0	2	0	0
2745:	0	0	0	0	0	0	0	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	0	1	1	0	1	0
2769:	0	0	0	0	0	0	0	0
2777:	1	0	0	0	0	0	0	0
2785:	0	0	0	1	0	1	0	0
2793:	2	0	0	0	0	0	1	0
2801:	0	1	1	0	0	0	0	0
2809:	0	0	0	0	0	0	1	0
2817:	0	0	1	0	0	0	0	0
2825:	0	0	0	0	1	0	0	0

2833:	0	0	0	0	0	0	0	0
2841:	1	0	0	0	0	0	0	0
2849:	0	0	0	0	0	0	0	0
2857:	0	0	0	0	0	0	0	0
2865:	1	1	0	0	0	0	0	0
2873:	0	0	0	0	0	0	1	0
2881:	0	0	0	0	0	0	0	0
2889:	0	0	0	0	0	0	0	0
2897:	0	0	0	0	0	0	0	0
2905:	1	0	0	0	1	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	0	0	0	0	1	0	0
2929:	0	0	0	0	0	1	0	0
2937:	0	0	1	0	0	1	0	0
2945:	0	0	0	0	0	0	0	0
2953:	0	0	0	0	0	0	0	0
2961:	0	0	0	0	0	0	0	0
2969:	0	0	0	0	0	1	0	0
2977:	0	0	1	1	0	1	0	0
2985:	0	0	0	0	0	0	0	0
2993:	1	0	0	0	0	0	1	0
3001:	0	0	0	0	0	0	0	0
3009:	0	0	0	0	1	0	0	0
3017:	0	0	0	0	0	1	0	0
3025:	0	0	0	1	0	0	0	0
3033:	0	0	0	1	0	0	0	1
3041:	0	0	0	0	0	0	0	0
3049:	0	0	0	0	1	0	1	0
3057:	0	0	1	0	0	0	0	0
3065:	0	1	1	0	0	0	0	0
3073:	0	1	0	0	1	0	0	0
3081:	0	0	0	1	0	0	0	1
3089:	0	0	1	0	0	1	0	0
3097:	0	3	0	0	0	0	0	0
3105:	0	0	1	0	0	1	1	0
3113:	0	0	0	0	0	0	0	0
3121:	0	0	1	0	0	0	0	0
3129:	0	0	0	0	0	0	0	0
3137:	1	0	0	0	0	0	0	0
3145:	0	0	0	1	1	0	1	0
3153:	1	0	0	0	0	0	0	0
3161:	0	0	0	0	1	1	0	0
3169:	0	0	0	0	0	0	0	0
3177:	1	0	0	0	0	0	0	0
3185:	0	1	1	0	0	0	0	0
3193:	0	0	0	0	0	0	1	0
3201:	0	0	0	0	0	0	0	1
3209:	0	0	0	1	0	1	0	0
3217:	0	0	0	1	2	1	0	1
3225:	0	1	0	0	0	0	0	0
3233:	0	0	0	0	0	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	0	0	0	2	2	0	0	0
3257:	0	0	1	0	0	0	0	0
3265:	2	0	0	1	0	0	0	0
3273:	0	0	0	0	0	0	0	0
3281:	1	0	0	1	0	0	0	0
3289:	2	0	0	0	0	0	0	0
3297:	1	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0

3313:	1	0	0	0	0	0	1	0
3321:	0	0	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	1	0	0	0	0	0
3345:	0	0	0	0	0	1	0	0
3353:	2	0	1	0	0	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	0	0
3377:	0	0	0	1	0	0	1	0
3385:	0	1	0	1	0	0	0	0
3393:	0	0	1	0	0	0	0	0
3401:	0	0	0	0	0	0	0	0
3409:	0	0	1	0	0	0	0	0
3417:	0	0	0	0	1	0	1	0
3425:	0	0	0	0	0	0	1	1
3433:	0	1	0	0	1	0	0	1
3441:	0	0	0	0	0	1	1	0
3449:	1	0	0	0	0	0	0	0
3457:	0	0	0	0	0	0	0	0
3465:	0	0	0	0	0	1	0	0
3473:	0	0	0	0	0	0	0	1
3481:	1	0	1	0	0	0	0	0
3489:	0	0	0	0	0	0	0	0
3497:	0	0	2	0	0	1	0	0
3505:	0	1	0	0	0	0	0	1
3513:	1	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	0	0	0	0	0	0
3537:	0	2	0	0	0	0	0	0
3545:	0	0	0	0	0	0	0	0
3553:	0	0	0	0	1	1	0	0
3561:	0	0	1	0	0	1	0	1
3569:	0	0	0	0	0	0	1	0
3577:	0	0	0	0	0	0	0	0
3585:	1	1	0	1	0	0	0	0
3593:	0	0	0	0	0	0	1	0
3601:	0	0	0	0	0	0	0	0
3609:	0	0	0	0	0	0	0	0
3617:	0	0	0	0	0	0	0	0
3625:	1	0	0	0	0	0	0	0
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	1	0	0	0	0
3649:	0	0	0	1	0	1	0	0
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	1	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	0	0	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	1	0	0	0
3737:	0	0	0	0	0	0	0	1
3745:	1	0	0	0	1	0	0	0
3753:	0	1	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	0
3769:	0	0	0	0	0	0	0	0
3777:	1	0	0	0	0	0	0	0
3785:	0	0	0	1	0	1	0	0

3793:	0	0	0	0	0	0	0	0
3801:	1	0	0	0	0	0	0	0
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	0	0	0
3825:	0	0	0	0	0	1	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	1	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	0	0	1	0	1
3873:	0	0	0	0	1	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	1	0	0	1	0
3897:	0	1	0	0	0	0	0	0
3905:	0	0	1	0	0	0	0	0
3913:	0	0	0	0	0	0	0	0
3921:	0	0	1	0	1	0	0	0
3929:	0	0	0	0	1	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	1	1	0	0	0	0	0
3961:	0	0	0	0	0	0	0	0
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	1	0	0
3985:	0	0	0	1	0	1	0	0
3993:	0	0	1	0	0	0	1	1
4001:	0	0	0	2	0	0	0	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	1	1	0	0	0	0	0
4033:	0	0	0	1	0	1	0	0
4041:	0	0	1	0	1	1	0	0
4049:	0	0	0	0	0	0	1	0
4057:	0	1	0	0	0	0	0	0
4065:	0	0	0	0	0	0	0	0
4073:	0	0	0	0	0	0	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	0	0	0	0	0

Sample ID : 1006061-19 Acquisition date : 9-JUL-2010 13:22:28

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VAX/VMS Peak Search Report Generated 9-JUL-2010 14:22:44.85

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606119_GE1_GAS1002_151328.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-18
Deposition Date :
Sample Date : 3-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 13:22:28.
Sample ID : 1006061-19 Sample Quantity : 2.08960E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE1 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:00.73 0.0%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	75.79*	192	240	4.25	75.24	71	8	32.1		AM-243
2	238.89*	156	87	2.61	238.45	233	13	28.0	4.19E+00	PB-212
2	241.98*	60	68	2.62	241.55	233	13	70.8		RA-224
0	295.50*	110	48	1.67	295.11	291	9	30.6		PB-214
0	303.04	15	29	2.44	302.65	301	5	116.6		
0	338.99	24	48	1.48	338.62	337	6	100.0		
0	351.84*	104	92	1.90	351.49	346	10	40.6		PB-214
5	517.82	19	23	3.71	517.59	505	17	112.2	1.50E+00	
0	565.74	17	15	3.28	565.55	561	7	92.8		
0	582.61	50	30	2.26	582.43	577	11	51.2		
0	609.48*	76	34	1.64	609.31	605	9	37.3		BI-214
0	824.74	10	1	1.98	824.73	822	7	77.1		
0	832.10	10	0	3.06	832.10	829	7	63.2		
1	838.89	19	3	2.67	838.90	836	11	56.8	2.11E+00	
1	842.75	16	11	2.67	842.76	836	11	86.3		
0	911.95*	20	21	1.73	912.01	908	9	95.9		
0	919.32	16	7	4.26	919.38	916	7	76.2		
1	1024.92	7	0	2.73	1025.07	1024	7	56.8	6.54E-01	
1	1028.11	10	5	2.24	1028.25	1024	7	78.8		
0	1120.81	38	13	2.27	1121.02	1114	13	50.6		BI-214
0	1141.15	6	6	1.25	1141.37	1138	7	142.5		
0	1148.00	10	10	2.82	1148.23	1144	8	127.4		
0	1215.89	27	9	10.61	1216.17	1209	17	63.6		
0	1279.61	15	4	2.45	1279.94	1276	8	70.3		
0	1289.86	9	6	1.25	1290.19	1286	7	112.7		
0	1311.52	8	6	2.49	1311.87	1308	8	128.6		
0	1438.06	8	0	1.33	1438.50	1434	8	70.7		
0	1461.07*	21	3	2.13	1461.53	1457	10	59.0		K-40
0	1560.32	8	6	4.50	1560.85	1557	8	132.2		
0	1582.78	9	0	3.24	1583.33	1579	8	66.7		
0	1678.87	5	4	2.09	1679.49	1676	7	148.9		
0	1764.03*	19	0	5.87	1764.71	1760	10	48.7		BI-214
0	1916.35	7	0	1.16	1917.14	1914	6	75.6		
0	1942.37	9	1	3.80	1943.18	1940	7	84.5		
0	2549.91	6	0	2.98	2551.17	2546	9	81.6		

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Sample ID : 1006061-19 Acquisition date : 9-JUL-2010 13:22:28

Total number of lines in spectrum	35	
Number of unidentified lines	19	
Number of lines tentatively identified by NID	16	45.71%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.386E+00	1.386E+00	0.832E+00	60.01	
PB-212	1.41E+10Y	1.00	6.194E-01	6.194E-01	1.866E-01	30.12	
BI-214	1602.00Y	1.00	7.276E-01	7.277E-01	2.032E-01	27.93	
PB-214	1602.00Y	1.00	8.269E-01	8.269E-01	2.230E-01	26.97	
RA-224	1.41E+10Y	1.00	2.685E+00	2.685E+00	1.924E+00	71.64	
			---	---			
	Total Activity :		6.245E+00	6.245E+00			

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	3.742E-01	3.742E-01	1.370E-01	36.61	
			---	---			
	Total Activity :		3.742E-01	3.742E-01			

Grand Total Activity :	6.619E+00	6.619E+00

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
K-40	1460.81	10.67*	5.045E-01	1.386E+00	1.386E+00	60.01	OK
Final Mean for 1 Valid Peaks = 1.386E+00+/- 8.316E-01 (60.01%)							
PB-212	238.63	44.60*	2.033E+00	6.194E-01	6.194E-01	30.12	OK
	300.09	3.41	1.740E+00	----- Line Not Found		-----	Absent
Final Mean for 1 Valid Peaks = 6.194E-01+/- 1.866E-01 (30.12%)							
BI-214	609.31	46.30*	9.893E-01	5.997E-01	5.997E-01	39.10	OK
	1120.29	15.10	6.070E-01	1.498E+00	1.498E+00	51.38	OK
	1764.49	15.80	4.502E-01	9.643E-01	9.643E-01	49.81	OK
	2204.22	4.98	4.030E-01	----- Line Not Found		-----	Absent
Final Mean for 3 Valid Peaks = 7.277E-01+/- 2.032E-01 (27.93%)							
PB-214	295.21	19.19	1.761E+00	1.170E+00	1.170E+00	32.80	OK
	351.92	37.19*	1.545E+00	6.520E-01	6.520E-01	42.03	OK
Final Mean for 2 Valid Peaks = 8.269E-01+/- 2.230E-01 (26.97%)							
RA-224	240.98	3.95*	2.021E+00	2.685E+00	2.685E+00	71.64	OK
Final Mean for 1 Valid Peaks = 2.685E+00+/- 1.924E+00 (71.64%)							

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
AM-243	74.67	66.00*	2.800E+00	3.742E-01	3.742E-01	36.61	OK
Final Mean for 1 Valid Peaks = 3.742E-01+/- 1.370E-01 (36.61%)							

Flag: "*" = Keyline

Combined Activity-MDA Report
Sample ID : 1006061-19

Acquisition date : 9-JUL-2010 13:22:28

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
K-40	1.386E+00	8.316E-01	1.102E+00	1.154E-01	1.258
PB-212	6.194E-01	1.866E-01	1.810E-01	1.865E-02	3.422
BI-214	7.277E-01	2.032E-01	2.348E-01	2.586E-02	3.099
PB-214	8.269E-01	2.230E-01	2.526E-01	2.581E-02	3.273
RA-224	2.685E+00	1.924E+00	2.057E+00	2.133E-01	1.305
AM-243	3.742E-01	1.370E-01	1.353E-01	2.309E-02	2.765

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	-1.609E-01		7.390E-01	1.260E+00	1.267E-01	-0.128
NA-22	-1.118E-02		7.252E-02	1.192E-01	1.133E-02	-0.094
AL-26	1.571E-02		6.098E-02	1.286E-01	1.246E-02	0.122
TI-44	-1.404E-01		7.464E-02	9.617E-02	1.339E-02	-1.460
SC-46	-1.454E-02		8.666E-02	1.602E-01	1.324E-02	-0.091
V-48	-3.274E-03		3.134E-01	5.950E-01	4.897E-02	-0.006
CR-51	1.027E-01		1.219E+00	2.119E+00	2.376E-01	0.048
MN-54	6.399E-02		3.673E-02	9.791E-02	9.043E-03	0.654
CO-56	-9.367E-02		1.097E-01	1.544E-01	1.396E-02	-0.606
CO-57	-9.112E-03		5.414E-02	9.174E-02	8.829E-03	-0.099
CO-58	-4.342E-02		8.751E-02	1.547E-01	1.490E-02	-0.281
FE-59	5.829E-02		1.957E-01	3.925E-01	3.531E-02	0.149
CO-60	-9.898E-03		6.569E-02	1.232E-01	1.012E-02	-0.080
ZN-65	-4.027E-02		1.822E-01	2.894E-01	2.394E-02	-0.139
SE-75	-7.695E-02		1.021E-01	1.634E-01	1.804E-02	-0.471
RB-82	6.051E-01		1.180E+00	2.375E+00	2.398E-01	0.255
RB-83	-2.698E-02		1.685E-01	2.548E-01	4.254E-02	-0.106
KR-85	4.522E+01		1.703E+01	3.435E+01	3.563E+00	1.316
SR-85	2.904E-01		1.094E-01	2.206E-01	2.288E-02	1.316
Y-88	-1.499E-02		5.397E-02	1.064E-01	1.023E-02	-0.141
NB-93M	-1.160E+02		5.834E+01	7.474E+00	3.719E+00	-15.518
NB-94	-1.185E-02		6.398E-02	1.179E-01	1.015E-02	-0.100
NB-95	3.732E-02		1.148E-01	2.269E-01	2.324E-02	0.165
ZR-95	-4.323E-02		1.460E-01	2.671E-01	2.961E-02	-0.162
RU-103	-2.817E-02		1.190E-01	2.006E-01	3.049E-02	-0.140
RU-106	-3.461E-01		4.996E-01	8.627E-01	1.299E-01	-0.401
AG-108M	2.071E-02		5.867E-02	1.164E-01	1.248E-02	0.178
CD-109	-3.725E+00		1.938E+00	2.620E+00	6.324E-01	-1.422
AG-110M	-7.732E-02		6.989E-02	1.132E-01	1.271E-02	-0.683
SN-113	6.191E-02		9.188E-02	1.707E-01	1.605E-02	0.363
TE123M	-1.083E-02		6.530E-02	1.104E-01	9.603E-03	-0.098
SB-124	1.686E-02		1.068E-01	1.790E-01	1.965E-02	0.094
I-125	-1.696E-01		1.556E+00	2.676E+00	3.920E-01	-0.063
SB-125	4.803E-02		1.772E-01	3.168E-01	3.076E-02	0.152
SB-126	2.658E-01		7.752E-01	1.532E+00	1.647E-01	0.174
SN-126	-5.062E-01		2.070E-01	2.496E-01	5.786E-02	-2.028
I-129	-2.424E-01		1.580E-01	2.384E-01	4.290E-02	-1.017

Sample ID : 1006061-19 Acquisition date : 9-JUL-2010 13:22:28

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
I-131	6.957E-01		1.504E+00	2.699E+00	2.675E-01	0.258
BA-133	3.066E-02		1.151E-01	1.791E-01	2.548E-02	0.171
CS-134	-1.667E-02		7.404E-02	1.176E-01	1.295E-02	-0.142
CS-135	-1.808E-02		3.208E-01	5.458E-01	6.055E-02	-0.033
CS-136	1.045E-01		5.575E-01	1.091E+00	9.337E-02	0.096
CS-137	2.172E-02		7.224E-02	1.384E-01	1.558E-02	0.157
LA-138	1.493E-02		8.904E-02	1.661E-01	1.707E-02	0.090
CE-139	5.979E-02		6.927E-02	1.241E-01	1.057E-02	0.482
BA-140	-4.170E-01		1.657E+00	2.781E+00	9.371E-01	-0.150
LA-140	-2.943E-01		4.671E-01	7.940E-01	8.049E-02	-0.371
CE-141	4.173E-02		2.151E-01	3.701E-01	9.955E-02	0.113
CE-144	-8.576E-02		4.452E-01	7.518E-01	7.012E-02	-0.114
PM-144	1.269E-02		7.158E-02	1.384E-01	1.522E-02	0.092
PM-145	-9.397E-02		3.000E-01	4.986E-01	3.293E-01	-0.188
PM-146	-5.841E-02		1.249E-01	2.052E-01	2.016E-02	-0.285
ND-147	-1.664E+00		3.957E+00	6.538E+00	6.869E-01	-0.255
EU-152	-7.573E-02		4.521E-01	8.492E-01	1.042E-01	-0.089
GD-153	4.865E-02		2.175E-01	3.767E-01	6.486E-02	0.129
EU-154	-3.589E-02		1.994E-01	3.258E-01	3.095E-02	-0.110
EU-155	-5.123E-01		2.340E-01	3.046E-01	6.903E-02	-1.682
EU-156	1.753E+00		2.948E+00	5.965E+00	1.386E+00	0.294
HO-166M	2.815E-02		1.017E-01	1.988E-01	2.154E-02	0.142
HF-172	1.931E-01		3.896E-01	6.861E-01	6.531E-02	0.281
LU-172	1.202E+00		4.229E+00	8.521E+00	7.047E-01	0.141
LU-173	1.464E-01		2.586E-01	4.593E-01	5.144E-02	0.319
HF-175	-4.392E-02		1.302E-01	1.457E-01	1.516E-02	-0.301
LU-176	-4.074E-02		5.991E-02	8.379E-02	9.265E-03	-0.486
TA-182	8.093E-01	+	4.158E-01	6.898E-01	5.696E-02	1.173
IR-192	1.763E-02		1.436E-01	2.550E-01	2.541E-02	0.069
HG-203	-7.026E-03		1.130E-01	1.918E-01	2.221E-02	-0.037
BI-207	1.816E-02		5.167E-02	8.867E-02	9.560E-03	0.205
TL-208	5.782E-01	+	3.035E-01	4.695E-01	5.102E-02	1.232
BI-210M	-7.074E-02		1.083E-01	1.751E-01	1.913E-02	-0.404
PB-210	6.998E-02		1.545E+00	2.779E+00	3.212E-01	0.025
PB-211	1.504E+00		1.623E+00	3.102E+00	2.886E-01	0.485
BI-212	-3.472E-01		4.686E-01	8.004E-01	8.550E-02	-0.434
RN-219	7.463E-01		7.290E-01	1.402E+00	1.300E-01	0.532
RA-223	-1.029E+00		1.327E+00	2.108E+00	2.273E-01	-0.488
RA-225	-1.114E+00		1.128E+00	1.820E+00	2.374E-01	-0.612
RA-226	1.169E+00		2.681E+00	3.027E+00	5.544E+00	0.386
TH-227	1.443E+00		5.853E-01	1.016E+00	1.039E-01	1.420
AC-228	3.728E-01	+	3.589E-01	6.334E-01	5.146E-02	0.589
TH-230	-3.596E+01		1.903E+01	2.450E+01	3.389E+00	-1.468
PA-231	1.371E+00	+	1.608E+00	3.224E+00	3.584E-01	0.425
TH-231	-4.042E+01		9.328E+00	1.458E+00	3.235E-01	-27.719
PA-233	3.627E-01		3.436E-01	6.039E-01	1.417E-01	0.601
PA-234	4.679E-03		2.120E-01	3.630E-01	3.407E-02	0.013
PA-234M	3.612E+00		7.428E+00	1.541E+01	1.271E+00	0.234

Sample ID : 1006061-19 Acquisition date : 9-JUL-2010 13:22:28

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
TH-234	3.362E-02		1.543E+00	2.821E+00	3.331E-01	0.012
U-235	2.441E-01		4.534E-01	7.924E-01	1.405E-01	0.308
NP-237	-1.239E+00		5.658E-01	7.367E-01	1.669E-01	-1.682
AM-241	-1.535E-01		1.525E-01	2.461E-01	2.474E-02	-0.624
CM-243	-6.829E-02		3.664E-01	6.173E-01	7.004E-02	-0.111

Summary of Nuclide Activity
Sample ID : 1006061-19

Acquisition date : 9-JUL-2010 13:22:28

Total number of lines in spectrum	35	
Number of unidentified lines	19	
Number of lines tentatively identified by NID	16	45.71%

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.386E+00	1.386E+00	0.832E+00	60.01	
PB-212	1.41E+10Y	1.00	6.194E-01	6.194E-01	1.866E-01	30.12	
BI-214	1602.00Y	1.00	7.276E-01	7.277E-01	2.032E-01	27.93	
PB-214	1602.00Y	1.00	8.269E-01	8.269E-01	2.230E-01	26.97	
RA-224	1.41E+10Y	1.00	2.685E+00	2.685E+00	1.924E+00	71.64	
			---	---			
	Total Activity :		6.245E+00	6.245E+00			

Nuclide Type : ACTIVATION

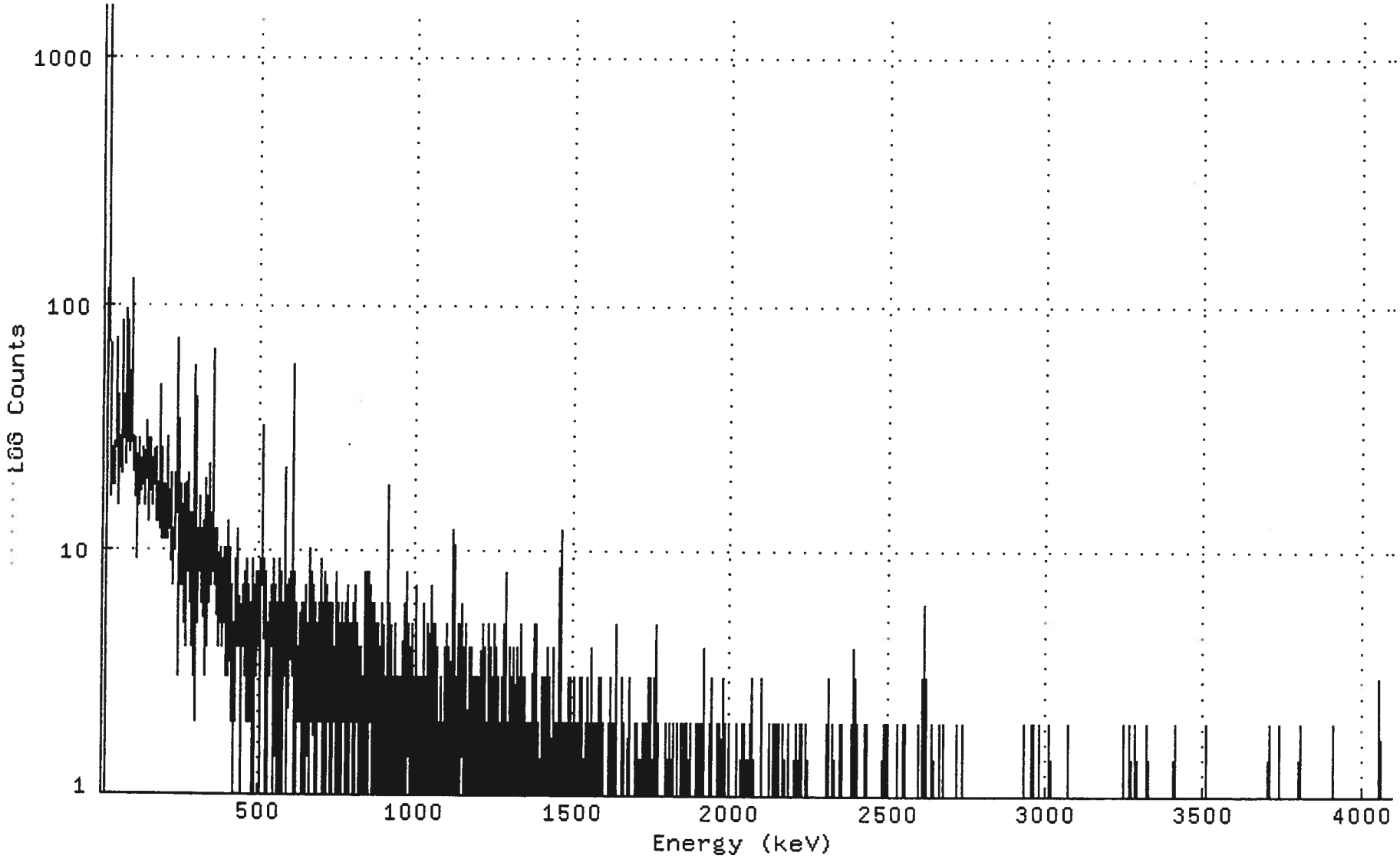
Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AM-243	7380.00Y	1.00	3.742E-01	3.742E-01	1.370E-01	36.61	
			---	---			
	Total Activity :		3.742E-01	3.742E-01			

Grand Total Activity : 6.619E+00 6.619E+00

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606119_GE1_GAS1002_151328.CNF;1
Title :
Sample Title: S-18

Start Time: 9-JUL-2010 13:22:	Sample Time: 3-JUN-2010 00:00:	Energy Offset: 6.08450E-01
Real Time : 0 01:00:00.73	Sample ID : 1006061-19	Energy Slope : 9.99268E-01
Live Time : 0 01:00:00.00	Sample Type: SOIL	Energy Quad : 0.00000E+00



0390

Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606119_GE1_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	6	66
17:	195	143	147	1672	332	127	37	39
25:	38	16	24	21	23	24	20	18
33:	26	21	26	27	19	18	20	22
41:	32	27	26	31	43	72	25	15
49:	36	20	31	29	29	27	23	21
57:	24	28	20	26	24	85	70	33
65:	32	42	31	31	31	35	22	34
73:	57	94	47	88	83	31	32	37
81:	38	27	48	52	25	47	29	26
89:	47	48	75	124	59	31	27	29
97:	29	24	26	28	25	16	24	23
105:	28	27	17	18	23	23	9	24
113:	18	28	24	20	15	17	20	19
121:	17	21	21	23	20	19	22	26
129:	18	23	18	24	15	24	18	25
137:	20	22	22	22	19	26	33	24
145:	23	25	13	24	20	21	23	23
153:	17	20	28	19	22	20	15	17
161:	15	22	19	18	18	24	25	26
169:	22	25	19	13	20	17	16	14
177:	16	17	13	16	12	17	27	23
185:	46	42	16	17	20	11	15	16
193:	11	11	15	18	17	16	18	14
201:	11	16	17	14	19	13	11	12
209:	29	20	12	12	12	12	17	16
217:	13	12	20	17	11	11	7	12
225:	9	12	10	8	12	12	20	14
233:	16	15	14	25	23	72	69	28
241:	34	31	14	14	3	11	15	7
249:	18	7	10	8	7	10	10	15
257:	13	10	15	11	5	10	18	9
265:	4	10	17	16	10	17	20	15
273:	15	13	8	18	10	14	10	12
281:	11	6	10	5	14	10	8	4
289:	13	3	10	13	11	16	55	31
297:	9	12	7	2	7	12	11	9
305:	5	8	7	9	11	13	13	8
313:	16	9	7	6	8	8	8	7
321:	13	10	9	8	9	3	5	19
329:	15	9	10	12	5	11	8	4
337:	12	22	13	13	6	6	10	7
345:	10	7	12	14	9	20	45	65
353:	20	9	8	12	8	12	7	10
361:	12	12	9	9	8	8	7	7
369:	4	6	7	4	7	9	10	5
377:	9	8	6	7	5	9	8	9
385:	4	7	9	5	8	5	8	10
393:	4	10	5	5	3	4	5	5
401:	13	9	9	3	10	5	5	4
409:	5	6	2	4	7	5	6	5
417:	2	4	5	1	3	3	4	2
425:	5	8	4	9	7	8	4	12

433:	4	8	5	6	6	5	6	4
441:	4	3	2	1	4	5	7	6
449:	5	5	4	4	4	8	3	4
457:	4	6	8	2	7	3	9	7
465:	7	6	4	7	5	2	3	4
473:	3	2	6	4	5	4	0	7
481:	5	9	4	5	7	1	7	6
489:	2	8	4	5	4	3	6	4
497:	4	8	5	7	7	6	5	6
505:	0	6	9	7	12	32	28	19
513:	12	6	7	8	6	6	9	2
521:	2	3	1	4	8	2	5	1
529:	3	3	4	6	4	5	3	5
537:	6	4	4	6	4	7	7	4
545:	1	8	9	2	5	1	2	7
553:	7	4	6	4	6	5	2	5
561:	1	2	6	9	7	7	0	3
569:	6	3	1	3	8	2	2	2
577:	1	3	6	5	6	12	21	14
585:	5	3	4	4	7	4	1	1
593:	5	7	5	7	3	7	8	7
601:	8	4	7	4	3	5	3	12
609:	56	32	2	4	4	4	1	5
617:	6	2	2	1	3	3	2	3
625:	2	4	3	2	3	2	3	2
633:	2	5	6	2	3	3	3	4
641:	0	5	1	5	4	6	6	2
649:	6	4	7	7	1	2	2	5
657:	2	3	5	1	5	10	4	5
665:	6	5	4	2	8	2	3	5
673:	4	2	7	5	3	0	2	5
681:	3	6	2	3	1	5	5	3
689:	5	3	4	5	2	6	5	6
697:	5	9	5	3	2	6	3	3
705:	1	4	4	8	7	3	1	2
713:	3	4	2	2	7	1	2	3
721:	2	6	4	3	2	3	3	3
729:	1	2	6	6	1	6	3	1
737:	5	4	2	3	2	3	4	3
745:	3	3	0	0	8	0	2	6
753:	4	2	6	1	0	2	3	4
761:	1	5	2	1	0	6	5	3
769:	5	4	3	2	2	3	5	1
777:	4	6	2	4	0	1	4	1
785:	2	7	2	3	5	3	1	4
793:	2	5	3	3	3	5	5	6
801:	2	1	6	1	6	2	0	1
809:	1	7	3	4	2	2	5	2
817:	3	4	0	2	0	1	1	3
825:	4	1	1	0	0	1	2	3
833:	3	1	0	0	2	3	8	4
841:	2	4	8	2	4	1	3	3
849:	3	1	2	4	8	5	2	3
857:	2	4	7	3	4	2	6	3
865:	1	6	2	4	2	3	1	2
873:	5	4	1	2	3	0	5	2
881:	2	2	3	2	4	2	2	4
889:	1	4	3	5	0	3	6	4
897:	1	4	2	0	3	2	3	2
905:	1	3	3	1	4	4	18	12

913:	3	5	1	0	5	2	6	6
921:	4	0	3	1	2	1	3	1
929:	1	1	1	1	4	5	2	3
937:	4	0	3	3	1	0	0	3
945:	1	1	1	2	3	3	3	1
953:	2	0	2	2	0	2	1	1
961:	1	3	6	2	3	5	1	4
969:	8	2	4	1	2	0	2	2
977:	3	2	2	5	1	4	2	3
985:	1	2	3	1	4	5	1	0
993:	3	2	1	0	2	0	5	2
1001:	5	7	1	4	3	1	2	1
1009:	3	1	3	0	1	3	1	3
1017:	2	1	2	2	3	0	0	0
1025:	3	0	2	6	4	0	3	3
1033:	1	2	2	2	1	5	3	3
1041:	0	1	2	4	1	0	3	7
1049:	1	2	4	0	2	2	5	2
1057:	1	2	2	5	3	3	0	4
1065:	1	0	0	2	0	1	4	1
1073:	0	1	1	1	1	1	1	2
1081:	3	1	1	2	1	1	1	1
1089:	1	2	0	4	2	2	2	2
1097:	2	3	5	0	2	2	1	1
1105:	1	1	1	4	3	2	3	0
1113:	2	1	3	1	3	3	5	12
1121:	9	4	2	3	5	0	1	3
1129:	3	3	3	0	5	2	1	2
1137:	1	0	1	5	2	2	2	0
1145:	2	2	6	2	4	3	1	2
1153:	1	4	1	2	3	1	0	2
1161:	1	5	1	1	0	1	1	1
1169:	2	1	0	1	4	4	2	1
1177:	1	4	1	3	3	1	0	2
1185:	1	2	2	1	2	1	1	3
1193:	0	3	1	2	2	0	3	3
1201:	1	2	0	1	0	1	3	0
1209:	0	1	3	5	2	3	1	1
1217:	3	4	3	1	4	2	1	2
1225:	0	2	1	1	0	1	4	3
1233:	2	0	5	1	1	3	4	0
1241:	1	3	0	2	1	2	2	2
1249:	5	1	0	3	0	1	4	2
1257:	2	1	2	3	1	1	2	0
1265:	0	1	2	2	2	2	0	2
1273:	1	3	0	2	1	1	3	5
1281:	5	1	0	0	2	2	0	1
1289:	8	3	1	0	0	1	2	2
1297:	0	0	0	1	4	1	0	2
1305:	3	1	0	1	1	0	3	4
1313:	3	1	1	1	1	1	1	2
1321:	4	2	1	0	3	0	0	0
1329:	1	0	3	1	1	2	1	2
1337:	3	5	0	0	0	3	1	0
1345:	1	3	0	1	1	1	0	2
1353:	0	1	0	1	1	0	2	1
1361:	1	0	0	1	2	1	0	1
1369:	1	0	3	2	2	2	2	5
1377:	3	3	3	1	2	0	0	5
1385:	0	3	3	1	0	1	2	0

1393:	2	1	1	1	0	0	0	2
1401:	0	3	2	2	2	3	3	1
1409:	0	0	2	0	1	3	1	1
1417:	1	4	3	1	2	0	2	0
1425:	0	0	0	0	3	1	0	0
1433:	0	0	0	0	2	1	4	1
1441:	0	0	1	1	1	2	0	0
1449:	2	1	1	1	1	3	0	0
1457:	0	0	0	6	12	7	1	2
1465:	2	0	1	2	2	0	0	0
1473:	1	0	1	2	0	2	0	0
1481:	2	0	1	1	1	2	0	3
1489:	1	1	1	1	3	2	2	1
1497:	0	2	0	1	1	0	0	3
1505:	0	0	1	0	1	2	1	1
1513:	1	0	0	0	2	2	1	0
1521:	3	0	0	2	2	2	0	3
1529:	1	1	2	0	0	1	0	1
1537:	0	0	2	1	2	0	1	1
1545:	0	1	1	0	3	3	0	1
1553:	2	1	0	1	0	3	1	2
1561:	4	3	1	0	2	0	0	1
1569:	2	0	0	0	0	1	2	2
1577:	1	0	0	1	0	1	3	1
1585:	3	0	0	1	3	1	3	2
1593:	3	1	2	0	0	0	0	1
1601:	1	0	1	0	1	1	1	0
1609:	1	1	0	1	2	1	1	1
1617:	2	0	2	0	0	3	0	2
1625:	0	0	0	1	0	2	0	0
1633:	0	2	1	0	1	5	1	0
1641:	0	1	1	0	0	0	1	1
1649:	0	0	1	1	1	1	1	1
1657:	1	3	0	0	1	0	0	1
1665:	2	1	0	0	1	0	0	1
1673:	0	0	0	0	1	1	3	3
1681:	1	0	2	0	0	0	1	0
1689:	0	1	1	1	1	1	1	0
1697:	1	1	0	0	2	0	1	0
1705:	0	1	0	2	0	0	1	0
1713:	0	0	1	0	1	0	1	0
1721:	2	2	0	0	1	0	0	2
1729:	1	1	1	1	0	2	0	2
1737:	1	0	1	3	1	0	0	0
1745:	0	3	1	1	2	0	2	0
1753:	0	0	0	0	1	0	0	0
1761:	3	0	1	4	5	5	2	1
1769:	0	0	0	2	1	0	0	0
1777:	0	0	1	0	1	0	1	0
1785:	0	1	0	0	0	1	1	0
1793:	0	1	0	0	0	0	2	0
1801:	1	0	1	1	0	1	2	0
1809:	1	1	2	1	0	1	1	0
1817:	1	1	0	0	0	2	0	1
1825:	1	0	0	0	0	1	1	0
1833:	2	0	0	0	0	0	1	0
1841:	0	0	0	2	0	0	0	0
1849:	1	2	1	0	2	1	1	1
1857:	0	2	1	2	0	0	1	0
1865:	2	0	0	0	0	1	0	0

1873:	2	2	2	2	0	1	1	0
1881:	0	0	0	1	0	0	0	1
1889:	0	1	0	1	2	0	0	1
1897:	0	1	2	0	2	0	0	1
1905:	0	0	2	1	2	0	1	0
1913:	0	0	1	1	1	4	0	0
1921:	1	0	1	1	1	1	0	0
1929:	0	1	1	1	0	0	1	0
1937:	2	0	1	0	2	2	2	3
1945:	1	0	0	0	0	0	0	0
1953:	1	0	1	1	0	0	1	0
1961:	0	1	2	2	0	0	1	0
1969:	0	1	0	0	1	0	0	3
1977:	1	0	1	0	0	2	0	0
1985:	1	1	0	0	1	1	0	0
1993:	1	0	0	0	0	2	0	0
2001:	0	1	0	1	1	1	0	0
2009:	0	0	0	0	1	1	0	0
2017:	0	1	0	0	1	2	2	0
2025:	1	0	0	0	1	0	0	0
2033:	1	0	1	1	2	0	0	1
2041:	0	0	2	1	1	1	0	2
2049:	0	1	1	0	0	0	0	0
2057:	0	0	0	0	2	0	0	0
2065:	0	1	2	0	0	0	3	2
2073:	0	1	0	0	1	1	0	1
2081:	0	1	1	1	0	1	1	0
2089:	1	0	0	0	0	1	1	0
2097:	0	0	1	1	0	3	1	0
2105:	0	0	1	0	0	0	0	1
2113:	0	0	0	1	0	0	0	0
2121:	0	0	0	0	2	0	0	1
2129:	0	0	0	0	1	0	0	0
2137:	0	1	2	1	0	0	0	0
2145:	2	1	1	0	2	1	0	1
2153:	2	1	0	0	0	0	0	0
2161:	0	1	0	0	0	0	1	0
2169:	2	0	0	1	0	1	0	1
2177:	0	0	0	1	1	0	1	1
2185:	2	0	0	0	1	0	0	0
2193:	0	0	0	0	0	0	1	0
2201:	0	1	0	1	1	0	2	2
2209:	1	1	0	0	1	1	0	0
2217:	1	0	2	0	0	0	0	0
2225:	2	1	0	1	1	1	1	0
2233:	0	0	0	0	0	2	0	0
2241:	0	2	1	0	0	0	0	0
2249:	0	0	1	0	0	1	0	0
2257:	1	1	1	0	1	1	0	1
2265:	0	0	0	0	0	1	0	1
2273:	0	0	0	1	0	1	1	0
2281:	0	0	1	0	0	0	0	0
2289:	0	1	0	0	0	0	1	1
2297:	1	1	1	1	0	0	0	0
2305:	0	2	0	0	0	0	0	3
2313:	0	1	1	0	0	0	0	0
2321:	0	0	1	0	1	0	2	0
2329:	0	0	0	0	0	1	0	0
2337:	0	1	0	0	1	0	0	0
2345:	1	1	0	2	0	0	2	0

2353:	2	1	0	0	1	0	1	0
2361:	0	0	0	0	0	1	0	1
2369:	0	1	0	0	1	0	0	0
2377:	0	0	0	0	0	0	0	0
2385:	2	0	1	1	4	1	0	0
2393:	0	0	0	0	0	0	3	0
2401:	0	2	0	1	1	0	0	0
2409:	0	1	0	0	0	0	0	0
2417:	1	1	0	1	0	0	0	0
2425:	0	0	1	0	2	0	0	0
2433:	2	0	0	0	1	0	1	0
2441:	0	0	0	0	0	0	0	0
2449:	1	1	0	0	1	1	0	0
2457:	0	0	0	0	1	0	0	1
2465:	0	0	0	0	0	0	0	0
2473:	0	0	0	0	0	0	0	0
2481:	1	1	1	1	0	2	1	0
2489:	0	0	0	2	0	2	0	1
2497:	0	0	1	2	2	0	1	0
2505:	0	1	0	0	0	1	0	1
2513:	0	0	0	0	0	0	0	0
2521:	0	1	0	0	1	1	0	0
2529:	2	1	0	0	1	0	0	0
2537:	0	0	0	0	0	1	0	0
2545:	0	0	1	0	0	0	2	1
2553:	2	0	0	0	0	0	0	0
2561:	0	0	0	0	1	1	0	0
2569:	0	1	0	0	0	0	0	0
2577:	0	0	0	0	0	0	0	1
2585:	0	0	0	0	0	0	0	0
2593:	0	1	1	0	0	0	2	0
2601:	1	0	1	0	1	1	0	1
2609:	0	0	0	3	1	5	3	6
2617:	2	0	3	0	1	0	1	1
2625:	0	0	0	0	0	0	0	1
2633:	0	0	0	0	0	0	0	0
2641:	1	0	2	0	0	1	0	0
2649:	1	0	0	0	0	0	0	0
2657:	0	0	0	1	0	1	2	0
2665:	0	0	1	0	1	0	0	0
2673:	0	0	2	0	0	0	1	0
2681:	0	0	1	0	0	0	0	0
2689:	1	0	0	0	1	0	0	0
2697:	1	0	0	1	0	1	0	0
2705:	0	0	0	0	1	0	1	0
2713:	0	0	0	0	0	1	2	0
2721:	1	0	0	0	0	0	0	0
2729:	0	0	0	0	0	0	0	0
2737:	2	0	0	0	1	0	0	1
2745:	0	0	1	0	1	0	1	0
2753:	0	0	0	0	0	0	0	0
2761:	0	0	1	0	0	1	0	0
2769:	0	0	0	0	1	1	0	0
2777:	0	0	0	0	1	0	0	0
2785:	0	0	0	0	0	0	0	0
2793:	0	0	1	0	0	1	0	0
2801:	1	0	0	0	0	0	0	0
2809:	0	0	0	0	0	0	0	0
2817:	0	0	0	1	1	0	1	0
2825:	0	0	0	1	0	1	1	0

2833:	0	0	0	0	0	0	0	0
2841:	0	0	0	0	0	0	0	0
2849:	1	1	0	0	0	0	0	1
2857:	0	0	0	0	0	0	0	0
2865:	0	0	0	0	1	0	0	0
2873:	0	0	0	0	0	1	0	1
2881:	0	0	0	0	0	0	0	0
2889:	0	0	1	1	0	0	0	0
2897:	0	0	0	1	0	0	0	0
2905:	0	0	1	0	1	0	0	0
2913:	0	0	0	0	0	0	0	0
2921:	0	1	0	0	0	0	0	0
2929:	0	1	2	0	0	0	0	0
2937:	0	0	0	0	0	0	0	0
2945:	0	0	0	0	0	0	0	1
2953:	0	0	0	2	2	0	0	2
2961:	0	1	0	1	0	0	1	0
2969:	0	0	1	0	0	0	0	0
2977:	1	2	0	0	0	0	0	0
2985:	0	1	0	0	0	0	1	0
2993:	0	0	1	0	1	0	1	0
3001:	0	0	0	0	0	0	1	0
3009:	0	0	0	1	2	0	1	0
3017:	0	0	0	0	0	0	0	1
3025:	0	0	0	1	0	0	1	0
3033:	0	0	0	0	0	0	0	0
3041:	0	0	0	0	0	0	0	0
3049:	0	1	1	0	0	1	0	0
3057:	0	1	0	1	0	0	0	1
3065:	0	0	0	0	0	0	2	0
3073:	0	0	0	0	0	1	0	1
3081:	0	0	0	0	0	0	0	0
3089:	0	0	0	0	0	0	0	0
3097:	0	0	0	1	0	0	0	0
3105:	0	0	0	0	0	0	0	0
3113:	0	1	0	0	0	0	1	0
3121:	0	0	1	0	0	1	0	0
3129:	1	0	1	0	0	0	0	0
3137:	0	0	0	0	1	0	0	0
3145:	0	0	0	0	0	0	1	1
3153:	0	0	0	0	0	0	0	0
3161:	0	0	0	0	1	0	0	0
3169:	0	0	1	0	0	0	0	0
3177:	0	0	0	0	0	1	0	0
3185:	0	0	0	1	0	0	0	0
3193:	0	0	0	0	1	0	0	0
3201:	0	0	0	0	1	0	0	0
3209:	0	0	1	0	0	0	0	0
3217:	1	0	0	1	1	0	0	0
3225:	0	0	1	0	0	0	0	0
3233:	0	0	1	0	0	0	0	0
3241:	0	0	0	0	2	0	0	0
3249:	0	0	0	0	0	0	1	0
3257:	0	0	0	0	1	0	1	1
3265:	0	0	2	0	0	0	0	0
3273:	0	1	0	0	0	0	0	0
3281:	0	0	0	0	0	2	1	0
3289:	0	0	1	0	0	0	0	0
3297:	0	0	0	0	0	1	1	1
3305:	0	0	0	0	0	1	0	0

3313:	0	0	1	0	0	0	0	0
3321:	1	2	0	0	0	0	0	0
3329:	0	0	0	0	0	0	0	0
3337:	0	0	0	0	0	0	0	0
3345:	0	0	1	1	0	0	0	0
3353:	1	0	0	0	0	1	0	1
3361:	0	0	0	0	0	0	1	0
3369:	1	0	1	0	0	0	0	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	1	0	0
3393:	0	0	0	0	0	0	0	1
3401:	0	0	1	0	0	0	0	2
3409:	0	0	1	0	0	0	0	0
3417:	0	0	0	1	0	0	0	0
3425:	0	0	0	1	0	0	1	0
3433:	1	0	0	0	0	0	0	0
3441:	1	0	0	0	0	0	0	0
3449:	0	0	0	0	0	0	0	0
3457:	0	0	0	1	0	0	0	0
3465:	1	0	0	0	0	1	1	0
3473:	0	0	0	0	0	0	0	0
3481:	0	1	0	0	0	1	1	0
3489:	0	0	1	1	0	0	0	0
3497:	0	0	1	0	0	0	0	1
3505:	0	0	2	0	0	1	0	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	1	0	0
3529:	0	0	0	1	0	0	0	0
3537:	0	0	0	0	0	0	0	0
3545:	0	1	0	0	0	0	0	0
3553:	1	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	0	0	0	1	0	0	0	0
3577:	0	0	0	0	0	1	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	0	0	0
3601:	0	0	0	0	0	0	0	0
3609:	0	1	0	0	0	1	0	0
3617:	0	0	0	0	0	0	0	0
3625:	0	0	0	0	0	0	1	1
3633:	0	0	0	0	0	0	0	0
3641:	0	0	0	0	0	1	0	0
3649:	0	0	0	0	1	0	0	0
3657:	0	0	0	0	0	1	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	1	0	0
3681:	1	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	0	0
3697:	0	0	0	0	0	0	0	0
3705:	2	0	0	1	0	0	0	1
3713:	0	0	0	0	0	1	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	0	0	0	0	0	1	1
3737:	2	0	0	1	0	1	0	0
3745:	0	0	0	0	1	0	0	0
3753:	0	0	1	0	1	0	0	0
3761:	0	0	0	0	0	1	1	0
3769:	0	0	1	0	0	0	0	0
3777:	0	1	0	0	0	1	0	0
3785:	0	0	0	0	0	1	0	0

3793:	0	0	0	0	0	0	0	1
3801:	0	2	0	0	0	0	0	0
3809:	0	0	0	0	0	0	1	0
3817:	0	0	0	0	0	0	0	0
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	0	0	1	0	0
3841:	0	0	0	0	0	0	0	0
3849:	0	0	0	0	0	0	1	0
3857:	0	0	0	0	0	0	0	0
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	0	0	0	0	0
3881:	0	0	0	0	0	0	0	0
3889:	0	0	0	1	0	0	0	0
3897:	1	0	1	0	0	0	0	0
3905:	0	0	2	0	0	0	0	0
3913:	0	1	0	1	0	0	0	0
3921:	0	0	0	0	0	0	0	0
3929:	0	0	0	0	0	0	0	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	1	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	1	0	0	0	0	0	0	1
3969:	0	0	0	0	0	0	0	0
3977:	0	0	0	0	0	0	0	0
3985:	0	0	0	0	0	0	0	0
3993:	0	0	0	0	0	0	0	0
4001:	1	0	0	0	0	1	1	0
4009:	0	0	0	0	0	0	0	0
4017:	0	0	0	0	0	0	0	0
4025:	0	0	0	0	1	0	0	0
4033:	0	0	0	0	0	0	0	0
4041:	0	0	0	0	0	0	1	1
4049:	0	0	0	0	1	0	0	3
4057:	0	0	1	0	0	0	0	0
4065:	0	0	1	1	0	0	0	0
4073:	1	0	0	0	0	1	0	0
4081:	0	0	0	0	0	0	0	0
4089:	0	0	0	1	1	1	0	0

Sample ID : 1006061-20 Acquisition date : 9-JUL-2010 13:57:30

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VAX/VMS Peak Search Report Generated 9-JUL-2010 14:58:00.38

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606120_GE4_GAS1002_151329.
Analyses by : PEAK V16.9 ENBACK V1.6 PEAKEFF V2.2
Client ID : S-19
Deposition Date :
Sample Date : 3-JUN-2010 00:00:00. Acquisition date : 9-JUL-2010 13:57:30.
Sample ID : 1006061-20 Sample Quantity : 1.84250E+02 GRAM
Sample type : SOIL Sample Geometry : 0
Detector name : GE4 Detector Geometry: GAS-1002
Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:11.93 0.3%
Start channel : 5 End channel : 4096
Sensitivity : 2.40000 Gaussian : 15.00000
Critical level : Yes

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	40.19	514	4624	2.96	40.19	37	8	46.7		RA-225
0	63.39*	2331	7878	2.02	63.38	61	6	12.7		TH-234
6	68.10	1175	5524	1.46	68.08	66	15	18.3	1.44E+02	
6	76.49*	18328	12129	3.37	76.47	66	15	2.7		
4	84.67*	1342	5311	1.77	84.65	82	16	16.9	1.79E+01	
4	87.41	3397	4925	1.82	87.39	82	16	7.4		EU-155
										NP-237
										SN-126
										CD-109
4	90.01	3266	7298	2.53	89.99	82	16	11.1		
4	93.24*	6579	5646	2.26	93.21	82	16	4.9		
0	99.76	601	4077	2.11	99.73	97	6	34.7		
0	105.81	579	4833	1.88	105.78	103	7	40.6		EU-155
0	114.79	462	4153	2.71	114.76	112	7	47.4		
0	129.56	1567	5642	2.32	129.52	125	10	18.6		
0	144.36	788	5301	2.14	144.31	140	10	35.3		U-235
										CE-141
0	154.45	546	3487	2.62	154.40	151	7	36.9		
0	164.65	168	2791	3.46	164.59	162	6	101.0		U-235
										CE-139
1	179.86	156	2725	2.01	179.80	175	15	107.0	7.51E-01	
1	186.22*	2184	2743	1.98	186.16	175	15	8.7		RA-226
6	205.77	127	1259	1.78	205.70	204	11	75.1	3.45E+00	U-235
6	209.72	1611	2768	2.45	209.65	204	11	11.9		
3	239.00*	14667	1852	1.97	238.91	233	17	1.9	1.09E+00	PB-212
3	241.76	2220	1869	2.47	241.67	233	17	13.4		RA-224
3	270.55	1164	1376	2.05	270.45	266	16	11.7	8.85E-01	
3	277.75	568	1414	1.85	277.65	266	16	22.4		HG-203
2	286.54	139	617	2.40	286.43	285	20	48.2	6.75E+00	
2	295.69*	1723	1427	2.27	295.59	285	20	8.6		PB-214
2	300.49	952	1416	2.22	300.38	285	20	14.9		PB-212
0	328.10	644	1840	1.99	327.98	324	9	25.2		
0	338.85*	2453	1966	2.19	338.72	334	10	7.9		AC-228
0	352.32*	2661	1754	2.33	352.19	347	11	7.2		PB-214
4	401.91	159	1266	3.13	401.76	396	19	82.0	1.40E+00	RN-219
4	409.88	366	1071	2.55	409.73	396	19	32.9		

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Sample ID : 1006061-20 Acquisition date : 9-JUL-2010 13:57:30

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	463.63	699	1100	2.17	463.45	458	10	19.3		
0	511.08*	1273	870	2.43	510.89	506	9	10.1		
0	572.46	93	834	3.08	572.24	567	10	118.9		
0	583.47*	3895	974	2.21	583.24	577	12	4.5		TL-208
0	609.72*	1699	888	2.26	609.49	604	11	8.4		BI-214
0	704.02	98	810	5.60	703.74	698	11	114.5		
0	727.88	674	712	2.24	727.60	723	11	17.2		BI-212
4	764.36	162	464	3.35	764.06	750	30	53.1	7.97E+00	NB-95
4	772.24	216	424	3.36	771.94	750	30	41.1		
2	782.20	105	224	2.57	781.89	779	11	50.3	6.50E-01	
2	786.07	185	311	2.78	785.76	779	11	37.2		
0	795.09	349	453	2.11	794.77	791	10	25.1		
3	830.63	110	266	3.08	830.30	824	22	57.3	1.52E+00	
3	835.93	150	207	2.30	835.60	824	22	36.6		MN-54
3	840.15	134	266	3.09	839.82	824	22	50.3		
0	860.47	470	269	2.38	860.13	853	12	16.7		TL-208
2	903.97	54	223	2.83	903.61	898	19	94.5	1.48E+00	
2	911.65	2035	165	2.24	911.29	898	19	4.9		AC-228
0	934.06	72	148	2.13	933.69	931	8	62.6		
2	958.89	54	161	2.85	958.50	954	20	88.5	2.16E+00	
2	965.31	451	141	2.58	964.92	954	20	15.2		
2	969.44	1121	118	2.18	969.05	954	20	7.1		AC-228
0	1001.05	114	181	2.22	1000.65	996	11	49.3		PA-234M
0	1040.60	34	120	2.49	1040.18	1036	9	120.3		
0	1120.78	304	171	2.51	1120.33	1115	11	20.2		BI-214
0	1154.40	66	168	5.51	1153.94	1148	12	82.3		
0	1195.59	94	200	17.67	1195.11	1184	20	76.5		
0	1238.41	100	142	2.57	1237.91	1232	10	49.1		
0	1246.81	28	102	3.14	1246.31	1244	7	125.6		
0	1281.28	33	99	3.10	1280.77	1277	8	110.3		
0	1366.14	54	79	3.25	1365.59	1362	8	62.5		
1	1377.80	74	106	2.73	1377.25	1371	22	55.4	1.72E+00	
1	1381.81	24	111	2.73	1381.25	1371	22	165.2		
0	1408.79	40	130	4.01	1408.22	1403	10	111.2		
0	1432.00	28	63	4.20	1431.42	1428	7	103.1		
0	1459.18	45	109	1.80	1458.59	1454	10	93.0		
0	1511.82	85	81	5.68	1511.21	1506	10	45.9		
2	1588.17	127	69	3.07	1587.53	1573	32	32.1	2.57E+00	
2	1593.11	249	62	3.02	1592.47	1573	32	18.9		
0	1621.59	73	121	2.22	1620.93	1616	11	62.9		BI-212
8	1631.23	60	73	3.25	1630.57	1627	18	54.5	3.06E+00	
8	1639.64	49	76	5.47	1638.98	1627	18	83.0		
2	1661.23	41	53	3.10	1660.56	1650	23	72.3	1.29E+00	
2	1667.21	34	48	3.10	1666.54	1650	23	86.9		
0	1730.97	32	76	3.24	1730.27	1725	10	108.0		
0	1765.12	225	97	2.69	1764.41	1758	11	21.6		BI-214
0	1847.58	68	55	3.55	1846.83	1842	10	47.7		
0	1922.61	30	49	3.79	1921.83	1918	8	86.8		
0	2083.87	23	44	5.09	2083.02	2079	8	108.3		
0	2105.50	196	155	3.56	2104.64	2096	19	33.8		
0	2206.00	87	159	2.93	2205.11	2189	21	75.4		

Post-NID Peak Search Report (continued)
Sample ID : 1006061-20

Acquisition date : 9-JUL-2010 13:57:30

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw %Err	Fit	Nuclides
0	2384.40	25	65	1.90	2383.43	2379	8116.3		
0	2448.55	37	50	1.61	2447.55	2442	11 80.2		
0	2506.90	35	42	8.00	2505.88	2492	24103.3		
2	2584.51	11	1	2.70	2583.45	2581	12 64.0	1.15E+00	
2	2589.64	8	9	3.35	2588.58	2581	12123.7		
0	2598.89	13	6	3.78	2597.83	2594	8 83.6		
0	2615.35*	1123	25	3.17	2614.29	2607	15 6.3		TL-208
0	2660.87	5	2	2.15	2659.78	2656	7120.0		
0	2788.26	8	0	1.47	2787.13	2783	8 70.7		
0	3199.30	9	3	2.19	3197.99	3194	7 96.4		

Summary of Nuclide Activity
Sample ID : 1006061-20

Acquisition date : 9-JUL-2010 13:57:30

Total number of lines in spectrum	92	
Number of unidentified lines	43	
Number of lines tentatively identified by NID	49	53.26%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.08	2.249E+00	2.439E+00	0.934E+00	38.28	
HG-203	46.60D	1.72	3.589E+00	6.186E+00	1.702E+00	27.51	
			---	---			
	Total Activity :		5.838E+00	8.625E+00			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
NB-95	35.06D	2.06	2.232E+00	4.602E+00	2.503E+00	54.39	
CD-109	464.00D	1.06	2.305E+02	2.434E+02	0.343E+02	14.08	
SN-126	1.00E+05Y	1.00	2.316E+01	2.316E+01	0.295E+01	12.75	
CE-139	137.66D	1.20	6.696E-01	8.052E-01	8.166E-01	101.43	
CE-141	32.50D	2.18	4.834E+00	1.055E+01	0.472E+01	44.70	
EU-155	4.96Y	1.01	7.276E+00	7.379E+00	3.094E+00	41.94	
NP-237	2.14E+06Y	1.00	6.797E+01	6.797E+01	0.861E+01	12.66	
			---	---			
	Total Activity :		3.366E+02	3.579E+02			

Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	1.165E+02	1.165E+02	0.103E+02	8.81	
BI-212	1.41E+10Y	1.00	7.373E+01	7.373E+01	1.481E+01	20.09	
PB-212	1.41E+10Y	1.00	1.411E+02	1.411E+02	0.161E+02	11.40	
BI-214	1602.00Y	1.00	3.955E+01	3.955E+01	0.452E+01	11.42	
PB-214	1602.00Y	1.00	4.486E+01	4.486E+01	0.550E+01	12.27	
RN-219	3.28E+04Y	1.00	1.712E+01	1.712E+01	1.425E+01	83.22	
RA-224	1.41E+10Y	1.00	2.404E+02	2.404E+02	0.455E+02	18.92	
RA-225	14.80D	5.55	5.863E+00	3.256E+01	1.557E+01	47.82	
RA-226	1602.00Y	1.00	2.316E+02	2.316E+02	4.249E+02	183.44	
AC-228	1.41E+10Y	1.00	1.195E+02	1.195E+02	0.091E+02	7.63	
PA-234M	4.47E+09Y	1.00	2.198E+02	2.198E+02	1.107E+02	50.38	
TH-234	4.47E+09Y	1.00	1.611E+02	1.611E+02	0.247E+02	15.33	
U-235	7.04E+08Y	1.00	1.008E+01	1.008E+01	0.784E+01	77.81	
			---	---			
	Total Activity :		1.421E+03	1.448E+03			

Grand Total Activity : 1.764E+03 1.814E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide Type: ACTIVATION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
MN-54	834.83	99.97*	2.727E-01	2.249E+00	2.439E+00	38.28	OK
Final Mean for 1 Valid Peaks = 2.439E+00+/- 9.338E-01 (38.28%)							
HG-203	279.19	77.30*	8.343E-01	3.589E+00	6.186E+00	27.51	OK
Final Mean for 1 Valid Peaks = 6.186E+00+/- 1.702E+00 (27.51%)							

Nuclide Type: FISSION

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
NB-95	765.79	99.81*	2.971E-01	2.232E+00	4.602E+00	54.39	OK
Final Mean for 1 Valid Peaks = 4.602E+00+/- 2.503E+00 (54.39%)							
CD-109	88.03	3.72*	1.615E+00	2.305E+02	2.434E+02	14.08	OK
Final Mean for 1 Valid Peaks = 2.434E+02+/- 3.428E+01 (14.08%)							
SN-126	87.57	37.00*	1.615E+00	2.316E+01	2.316E+01	12.75	OK
Final Mean for 1 Valid Peaks = 2.316E+01+/- 2.952E+00 (12.75%)							
CE-139	165.85	80.35*	1.269E+00	6.696E-01	8.052E-01	101.43	OK
Final Mean for 1 Valid Peaks = 8.052E-01+/- 8.166E-01 (101.43%)							
CE-141	145.44	48.40*	1.373E+00	4.834E+00	1.055E+01	44.70	OK
Final Mean for 1 Valid Peaks = 1.055E+01+/- 4.717E+00 (44.70%)							
EU-155	86.50	30.90*	1.617E+00	2.771E+01	2.811E+01	12.66	<<WM Interf
	105.30	20.70	1.567E+00	7.276E+00	7.379E+00	41.94	OK
Final Mean for 1 Valid Peaks = 7.379E+00+/- 3.094E+00 (41.94%)							
NP-237	86.50	12.60*	1.617E+00	6.797E+01	6.797E+01	12.66	OK
Final Mean for 1 Valid Peaks = 6.797E+01+/- 8.608E+00 (12.66%)							

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TL-208	583.14	30.22*	3.936E-01	1.334E+02	1.334E+02	14.65	OK
	860.37	4.48	2.647E-01	1.615E+02	1.615E+02	20.01	OK

Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
	2614.66	35.85	1.255E-01	1.018E+02	1.018E+02	12.78	OK
	Final Mean for 3 Valid Peaks = 1.165E+02+/- 1.027E+01 (8.81%)						
BI-212	727.17	11.80*	3.131E-01	7.430E+01	7.430E+01	21.17	OK
	1620.62	2.75	1.562E-01	6.926E+01	6.926E+01	63.72	OK
	Final Mean for 2 Valid Peaks = 7.373E+01+/- 1.481E+01 (20.09%)						
PB-212	238.63	44.60*	9.611E-01	1.394E+02	1.394E+02	13.41	OK
	300.09	3.41	7.792E-01	1.459E+02	1.459E+02	21.64	OK
	Final Mean for 2 Valid Peaks = 1.411E+02+/- 1.609E+01 (11.40%)						
BI-214	609.31	46.30*	3.759E-01	3.978E+01	3.978E+01	15.92	OK
	1120.29	15.10	2.073E-01	3.950E+01	3.950E+01	22.63	OK
	1764.49	15.80	1.482E-01	3.911E+01	3.911E+01	23.78	OK
	2204.22	4.98	1.326E-01	----- Line Not Found		-----	Absent
	Final Mean for 3 Valid Peaks = 3.955E+01+/- 4.517E+00 (11.42%)						
PB-214	295.21	19.19	7.915E-01	4.623E+01	4.623E+01	17.96	OK
	351.92	37.19*	6.661E-01	4.378E+01	4.378E+01	16.78	OK
	Final Mean for 2 Valid Peaks = 4.486E+01+/- 5.502E+00 (12.27%)						
RN-219	401.80	6.50*	5.818E-01	1.712E+01	1.712E+01	83.22	OK
	Final Mean for 1 Valid Peaks = 1.712E+01+/- 1.425E+01 (83.22%)						
RA-224	240.98	3.95*	9.529E-01	2.404E+02	2.404E+02	18.92	OK
	Final Mean for 1 Valid Peaks = 2.404E+02+/- 4.548E+01 (18.92%)						
RA-225	40.00	31.00*	1.151E+00	5.863E+00	3.256E+01	47.82	OK
	Final Mean for 1 Valid Peaks = 3.256E+01+/- 1.557E+01 (47.82%)						
RA-226	186.21	3.28*	1.172E+00	2.316E+02	2.316E+02	183.44	OK
	Final Mean for 1 Valid Peaks = 2.316E+02+/- 4.249E+02 (183.44%)						
AC-228	338.32	11.40	6.929E-01	1.266E+02	1.266E+02	17.28	OK
	911.07	27.70*	2.505E-01	1.195E+02	1.195E+02	11.51	OK
	969.11	16.60	2.363E-01	1.164E+02	1.164E+02	12.61	OK
	Final Mean for 3 Valid Peaks = 1.195E+02+/- 9.122E+00 (7.63%)						
PA-234M	1001.03	0.92*	2.293E-01	2.198E+02	2.198E+02	50.38	OK
	Final Mean for 1 Valid Peaks = 2.198E+02+/- 1.107E+02 (50.38%)						

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Nuclide Type: NATURAL

Nuclide	Energy	%Abn	%Eff	Uncorrected pCi/GRAM	Decay Corr pCi/GRAM	2-Sigma %Error	Status
TH-234	63.29	3.80*	1.551E+00	1.611E+02	1.611E+02	15.33	OK
Final Mean for 1 Valid Peaks = 1.611E+02+/- 2.469E+01 (15.33%)							
U-235	143.76	10.50*	1.381E+00	2.214E+01	2.214E+01	39.86	<<WM Interf
	163.35	4.70	1.281E+00	1.134E+01	1.134E+01	102.85	<<WM Interf
	205.31	4.70	1.088E+00	1.008E+01	1.008E+01	77.81	OK
Final Mean for 1 Valid Peaks = 1.008E+01+/- 7.841E+00 (77.81%)							

Flag: "*" = Keyline

---- Identified Nuclides ----

Nuclide	Activity (pCi/GRAM)	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
MN-54	2.439E+00	9.338E-01	1.179E+00	1.245E-01	2.069
NB-95	4.602E+00	2.503E+00	2.637E+00	2.986E-01	1.745
CD-109	2.434E+02	3.428E+01	2.492E+01	2.818E+00	9.770
SN-126	2.316E+01	2.952E+00	2.371E+00	2.275E-01	9.771
CE-139	8.052E-01	8.166E-01	1.199E+00	1.055E-01	0.671
CE-141	1.055E+01	4.717E+00	3.520E+00	9.537E-01	2.998
EU-155	7.379E+00	3.094E+00	2.876E+00	2.728E-01	2.566
HG-203	6.186E+00	1.702E+00	1.937E+00	2.981E-01	3.193
TL-208	1.165E+02	1.027E+01	3.773E+00	5.035E-01	30.880
BI-212	7.373E+01	1.481E+01	1.073E+01	1.245E+00	6.868
PB-212	1.411E+02	1.609E+01	1.929E+00	2.441E-01	73.172
BI-214	3.955E+01	4.517E+00	2.638E+00	3.414E-01	14.991
PB-214	4.486E+01	5.502E+00	2.469E+00	3.604E-01	18.169
RN-219	1.712E+01	1.425E+01	1.540E+01	2.101E+00	1.112
RA-224	2.404E+02	4.548E+01	2.197E+01	2.812E+00	10.940
RA-225	3.256E+01	1.557E+01	1.758E+01	1.705E+00	1.852
RA-226	2.316E+02	4.249E+02	2.636E+01	4.829E+01	8.786
AC-228	1.195E+02	9.122E+00	3.884E+00	3.731E-01	30.775
PA-234M	2.198E+02	1.107E+02	1.103E+02	1.059E+01	1.992
TH-234	1.611E+02	2.469E+01	2.649E+01	2.006E+00	6.081
U-235	1.008E+01	7.841E+00	7.384E+00	1.331E+00	1.365
NP-237	6.797E+01	8.608E+00	6.954E+00	6.597E-01	9.774

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
BE-7	5.838E+00		1.008E+01	1.678E+01	2.354E+00	0.348
NA-22	3.404E-01		7.301E-01	1.184E+00	1.120E-01	0.287
AL-26	2.105E-01		6.663E-01	1.206E+00	1.095E-01	0.174
K-40	8.118E+00		7.091E+00	1.206E+01	1.194E+00	0.673
TI-44	3.210E+00	+	6.517E-01	1.209E+00	9.521E-02	2.655
SC-46	-3.975E-01		8.144E-01	1.408E+00	1.371E-01	-0.282
V-48	3.269E+00		2.856E+00	5.319E+00	5.113E-01	0.615
CR-51	-3.385E-01		1.624E+01	2.393E+01	3.672E+00	-0.014
CO-56	8.568E-01		1.064E+00	1.506E+00	1.565E-01	0.569
CO-57	2.816E-01		8.037E-01	9.603E-01	9.902E-02	0.293
CO-58	-1.329E-01		1.065E+00	1.735E+00	1.886E-01	-0.077
FE-59	-5.506E-01		1.835E+00	3.202E+00	3.209E-01	-0.172
CO-60	2.740E-01		5.876E-01	1.073E+00	9.730E-02	0.255
ZN-65	3.213E-01		1.501E+00	2.387E+00	2.226E-01	0.135
SE-75	-1.294E+00		1.211E+00	1.722E+00	2.466E-01	-0.752
RB-82	5.490E+01		2.030E+01	2.752E+01	3.087E+00	1.995
RB-83	1.990E+00		2.081E+00	3.300E+00	6.297E-01	0.603
KR-85	1.709E+03		3.268E+02	3.810E+02	5.318E+01	4.485
SR-85	1.098E+01		2.099E+00	2.447E+00	3.416E-01	4.485
Y-88	6.848E-01		8.302E-01	1.479E+00	1.331E-01	0.463
NB-93M	4.654E+02		2.191E+02	5.698E+01	2.650E+01	8.168

Sample ID : 1006061-20 Acquisition date : 9-JUL-2010 13:57:30

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
NB-94	2.624E-01		6.847E-01	1.094E+00	1.098E-01	0.240
ZR-95	4.121E+00		2.512E+00	3.849E+00	4.644E-01	1.071
RU-103	-1.113E+00		1.406E+00	2.234E+00	4.013E-01	-0.498
RU-106	-1.894E+00		7.976E+00	1.296E+01	2.113E+00	-0.146
AG-108M	-1.221E-02		1.046E+00	1.516E+00	1.763E-01	-0.008
AG-110M	6.523E-02		9.074E-01	1.489E+00	1.779E-01	0.044
SN-113	1.563E+00		1.368E+00	2.052E+00	2.813E-01	0.762
TE123M	-5.271E-01		1.016E+00	1.179E+00	1.070E-01	-0.447
SB-124	-4.112E-01		1.307E+00	1.878E+00	2.452E-01	-0.219
I-125	-7.593E+00		1.666E+01	2.513E+01	2.776E+00	-0.302
SB-125	-1.059E+00		2.156E+00	3.498E+00	4.881E-01	-0.303
SB-126	-2.611E+00		1.328E+01	1.909E+01	2.222E+00	-0.137
I-129	-3.458E-01		1.437E+00	2.428E+00	3.393E-01	-0.142
I-131	3.148E+00		1.648E+01	2.731E+01	3.911E+00	0.115
BA-133	8.333E+00		1.916E+00	2.049E+00	3.612E-01	4.066
CS-134	8.289E-01		9.066E-01	1.360E+00	1.772E-01	0.610
CS-135	2.378E+01		5.375E+00	6.660E+00	9.670E-01	3.571
CS-136	-2.655E-01		5.457E+00	8.536E+00	8.337E-01	-0.031
CS-137	-9.891E-02		9.275E-01	1.511E+00	1.794E-01	-0.065
LA-138	7.776E-01		1.072E+00	1.783E+00	1.727E-01	0.436
BA-140	-7.072E+00		1.980E+01	3.191E+01	1.112E+01	-0.222
LA-140	2.793E+01		7.266E+00	1.398E+01	1.336E+00	1.997
CE-144	9.832E+00		5.348E+00	8.065E+00	8.024E-01	1.219
PM-144	-1.055E+00		1.042E+00	1.432E+00	1.686E-01	-0.737
PM-145	1.872E+00		3.395E+00	4.857E+00	3.175E+00	0.386
PM-146	1.768E+00		1.817E+00	2.729E+00	3.815E-01	0.648
ND-147	2.156E+01		5.077E+01	8.437E+01	1.170E+01	0.256
EU-152	6.364E+00	+	7.124E+00	9.356E+00	1.101E+00	0.680
GD-153	8.478E+00		3.306E+00	4.010E+00	3.942E-01	2.114
EU-154	9.570E-01		2.018E+00	3.275E+00	3.097E-01	0.292
EU-156	-3.233E+01		3.893E+01	6.009E+01	1.429E+01	-0.538
HO-166M	4.108E-01		1.716E+00	2.517E+00	2.941E-01	0.163
HF-172	6.117E+00		4.820E+00	7.277E+00	7.414E-01	0.841
LU-172	7.636E+01		4.183E+01	8.028E+01	7.541E+00	0.951
LU-173	2.472E+01		4.830E+00	5.580E+00	8.244E-01	4.430
HF-175	2.057E+00		1.429E+00	1.722E+00	2.542E-01	1.194
LU-176	4.029E-01		6.229E-01	9.321E-01	1.415E-01	0.432
TA-182	2.135E+01	+	4.830E+00	6.869E+00	6.385E-01	3.108
IR-192	1.788E+00		2.139E+00	3.205E+00	4.492E-01	0.558
BI-207	-3.692E-01		8.688E-01	1.245E+00	1.683E-01	-0.296
BI-210M	-1.227E+00		1.313E+00	1.881E+00	2.655E-01	-0.652
PB-210	-2.836E+01		1.539E+01	2.239E+01	1.903E+00	-1.267
PB-211	2.854E+01		2.214E+01	3.693E+01	5.048E+00	0.773
RA-223	1.212E+01		1.671E+01	2.495E+01	3.751E+00	0.486
TH-227	2.942E+02		3.941E+01	1.700E+01	2.125E+00	17.305
TH-230	8.187E+02	+	1.662E+02	3.091E+02	2.429E+01	2.649
PA-231	1.936E+02		4.177E+01	4.869E+01	7.406E+00	3.977
TH-231	-1.605E+00		7.331E+00	1.240E+01	2.211E+00	-0.129

Sample ID : 1006061-20
Acquisition date : 9-JUL-2010 13:57:30

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GRAM)	K.L. Ided	Act error	MDA (pCi/GRAM)	MDA error	Act/MDA
PA-233	2.385E-02		3.575E+00	5.914E+00	1.519E+00	0.004
PA-234	1.823E+01		3.150E+00	4.422E+00	4.431E-01	4.123
AM-241	7.661E+00		1.896E+00	2.824E+00	2.079E-01	2.713
AM-243	5.324E+01		5.205E+00	2.638E+00	2.214E-01	20.183
CM-243	1.976E+01	+	5.408E+00	7.363E+00	1.115E+00	2.684

Summary of Nuclide Activity
Sample ID : 1006061-20

Acquisition date : 9-JUL-2010 13:57:30

Total number of lines in spectrum	92	
Number of unidentified lines	43	
Number of lines tentatively identified by NID	49	53.26%

Nuclide Type : ACTIVATION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
MN-54	312.70D	1.08	2.249E+00	2.439E+00	0.934E+00	38.28	
HG-203	46.60D	1.72	3.589E+00	6.186E+00	1.702E+00	27.51	
			---	---			
Total Activity :			5.838E+00	8.625E+00			

Nuclide Type : FISSION

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
NB-95	35.06D	2.06	2.232E+00	4.602E+00	2.503E+00	54.39	
CD-109	464.00D	1.06	2.305E+02	2.434E+02	0.343E+02	14.08	
SN-126	1.00E+05Y	1.00	2.316E+01	2.316E+01	0.295E+01	12.75	
CE-139	137.66D	1.20	6.696E-01	8.052E-01	8.166E-01	101.43	
CE-141	32.50D	2.18	4.834E+00	1.055E+01	0.472E+01	44.70	
EU-155	4.96Y	1.01	7.276E+00	7.379E+00	3.094E+00	41.94	
NP-237	2.14E+06Y	1.00	6.797E+01	6.797E+01	0.861E+01	12.66	
			---	---			
Total Activity :			3.366E+02	3.579E+02			

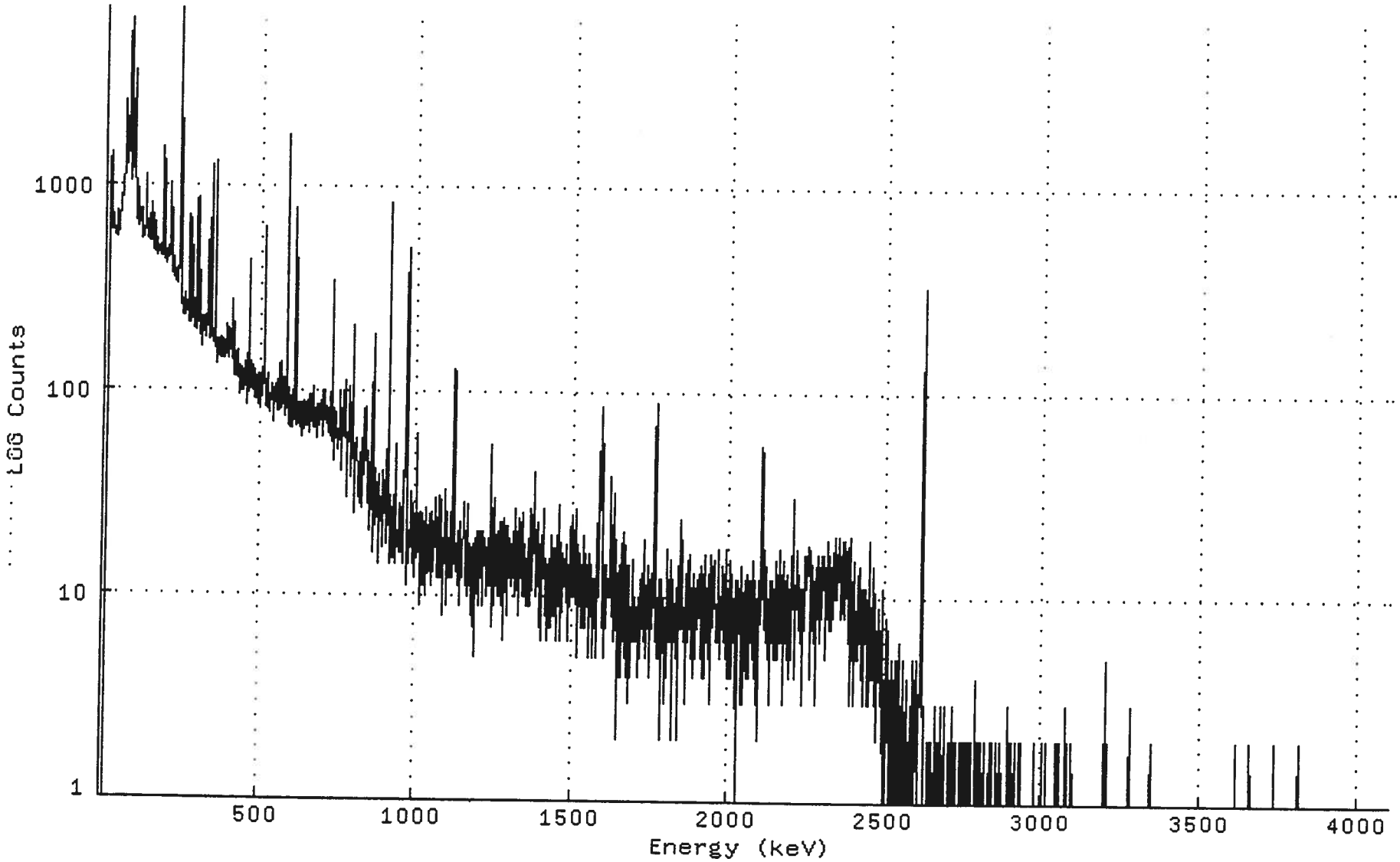
Nuclide Type : NATURAL

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/GRAM	Wtd Mean Decay Corr pCi/GRAM	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TL-208	1.41E+10Y	1.00	1.165E+02	1.165E+02	0.103E+02	8.81	
BI-212	1.41E+10Y	1.00	7.373E+01	7.373E+01	1.481E+01	20.09	
PB-212	1.41E+10Y	1.00	1.411E+02	1.411E+02	0.161E+02	11.40	
BI-214	1602.00Y	1.00	3.955E+01	3.955E+01	0.452E+01	11.42	
PB-214	1602.00Y	1.00	4.486E+01	4.486E+01	0.550E+01	12.27	
RN-219	3.28E+04Y	1.00	1.712E+01	1.712E+01	1.425E+01	83.22	
RA-224	1.41E+10Y	1.00	2.404E+02	2.404E+02	0.455E+02	18.92	
RA-225	14.80D	5.55	5.863E+00	3.256E+01	1.557E+01	47.82	
RA-226	1602.00Y	1.00	2.316E+02	2.316E+02	4.249E+02	183.44	
AC-228	1.41E+10Y	1.00	1.195E+02	1.195E+02	0.091E+02	7.63	
PA-234M	4.47E+09Y	1.00	2.198E+02	2.198E+02	1.107E+02	50.38	
TH-234	4.47E+09Y	1.00	1.611E+02	1.611E+02	0.247E+02	15.33	
U-235	7.04E+08Y	1.00	1.008E+01	1.008E+01	0.784E+01	77.81	
			---	---			
Total Activity :			1.421E+03	1.448E+03			

Grand Total Activity : 1.764E+03 1.814E+03

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Spectrum : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606120_GE4_GAS1002_151329.CNF;1
Title :
Sample Title: S-19
Start Time: 9-JUL-2010 13:57: Sample Time: 3-JUN-2010 00:00: Energy Offset: -1.37255E-02
Real Time : 0 01:00:11.93 Sample ID : 1006061-20 Energy Slope : 1.00041E+00
Live Time : 0 01:00:00.00 Sample Type: SOIL Energy Quad : 0.00000E+00



Channel Contents for DKA100:[GAMMA.SCUSR.ARCHIVE]SMP_100606120_GE4_GAS1002_1513

Channel

1:	0	0	0	0	0	0	0	0
9:	0	0	0	0	0	0	9	1255
17:	1391	1087	980	885	670	592	603	625
25:	665	655	707	613	579	578	612	599
33:	560	583	577	570	549	620	697	744
41:	698	616	612	602	583	719	729	737
49:	765	743	823	852	928	960	898	860
57:	979	1064	1095	1154	1206	1399	2296	2531
65:	1597	1230	1592	2116	1613	1356	1402	1487
73:	1723	2860	5041	4601	6388	5562	1876	1026
81:	1136	1098	1186	1672	1712	1514	2556	2498
89:	1672	2227	1799	2177	3541	2720	1301	810
97:	665	779	918	969	727	620	658	663
105:	935	939	713	740	764	696	661	681
113:	653	724	754	724	534	545	534	576
121:	607	605	561	589	546	634	599	762
129:	1106	1038	700	653	622	549	574	540
137:	541	530	547	546	598	573	638	809
145:	724	567	523	577	534	500	475	526
153:	557	693	704	606	472	541	464	497
161:	499	442	526	532	497	505	457	466
169:	488	466	474	483	460	461	443	448
177:	484	472	483	522	482	440	442	492
185:	877	1472	1112	557	435	484	482	421
193:	408	441	436	469	466	458	458	495
201:	460	439	430	427	482	448	442	564
209:	906	1002	576	398	404	359	378	407
217:	433	371	373	345	355	383	348	331
225:	379	354	375	358	341	326	355	388
233:	355	376	382	406	824	4190	7377	3460
241:	1245	1073	617	296	260	262	245	246
249:	231	239	246	262	287	232	267	292
257:	277	280	256	245	245	238	239	258
265:	240	212	213	235	355	707	664	342
273:	247	209	227	275	438	495	319	223
281:	225	251	222	214	198	251	220	274
289:	243	192	217	196	205	355	854	859
297:	349	213	361	565	532	265	213	199
305:	204	186	183	200	175	223	161	187
313:	173	224	214	188	202	198	204	199
321:	198	232	189	192	177	229	330	530
329:	405	203	218	200	232	211	196	174
337:	412	1148	1219	472	226	187	178	174
345:	167	174	166	172	177	212	698	1268
353:	964	287	155	173	148	153	132	153
361:	147	147	172	149	168	160	144	174
369:	165	140	178	160	178	169	166	166
377:	159	140	172	148	147	162	169	166
385:	159	140	165	192	207	178	165	145
393:	196	141	143	147	149	161	152	154
401:	172	194	161	176	137	150	139	172
409:	246	273	168	132	144	126	135	115
417:	122	115	134	150	134	147	152	121
425:	130	132	132	112	128	119	95	122

433:	118	118	107	110	114	106	98	126
441:	117	124	98	113	117	115	104	103
449:	126	104	121	126	145	130	112	123
457:	118	115	85	109	129	240	426	318
465:	167	110	100	108	125	125	119	116
473:	104	111	103	99	127	118	118	122
481:	119	114	90	102	90	91	114	114
489:	91	87	90	115	85	95	117	101
497:	92	97	81	86	118	97	126	106
505:	107	101	92	117	204	443	625	382
513:	148	84	95	86	105	99	100	109
521:	86	100	117	109	82	82	78	87
529:	86	94	81	93	100	105	90	97
537:	93	95	70	79	95	89	101	101
545:	95	86	105	95	95	96	88	110
553:	80	98	84	94	80	90	94	91
561:	91	131	133	81	96	94	89	83
569:	93	86	113	110	112	88	79	74
577:	80	88	102	97	133	685	1715	1342
585:	356	82	102	91	80	86	81	67
593:	87	66	77	79	93	79	91	65
601:	80	80	98	76	97	92	71	279
609:	770	714	267	87	67	72	78	79
617:	87	78	74	74	82	68	86	65
625:	78	76	73	72	74	70	59	80
633:	81	87	76	77	88	77	79	71
641:	64	80	79	87	84	76	67	74
649:	70	88	67	70	81	70	67	82
657:	70	61	95	70	79	72	74	77
665:	86	103	78	68	65	82	82	71
673:	68	66	79	81	71	70	81	57
681:	83	85	78	68	67	85	69	81
689:	79	80	81	89	72	73	84	61
697:	91	59	74	84	98	96	98	72
705:	95	85	71	76	69	70	76	83
713:	73	72	70	65	81	70	63	59
721:	64	74	71	62	67	141	341	313
729:	140	79	55	55	62	56	67	44
737:	81	47	68	68	60	78	70	58
745:	64	62	57	63	51	54	57	65
753:	78	77	99	93	70	52	40	56
761:	62	68	98	70	59	71	86	97
769:	91	87	69	105	110	78	41	61
777:	56	43	30	49	60	78	62	69
785:	90	104	75	50	43	37	45	44
793:	55	132	207	128	58	45	45	43
801:	54	25	47	42	50	48	49	57
809:	47	47	41	30	35	39	36	42
817:	46	48	30	31	40	35	28	31
825:	35	36	27	44	57	49	63	39
833:	38	48	80	83	64	44	51	82
841:	47	49	32	28	28	31	29	33
849:	43	30	25	22	21	32	28	30
857:	36	31	70	169	186	84	36	16
865:	31	29	29	28	22	41	25	33
873:	29	35	25	24	30	20	26	22
881:	27	14	38	23	28	25	30	24
889:	27	30	17	29	40	31	30	26
897:	32	25	29	27	36	28	33	50
905:	35	27	18	27	81	367	827	686

913:	184	36	27	14	26	16	23	28
921:	15	26	17	26	27	25	21	26
929:	25	19	15	25	37	54	37	14
937:	19	19	20	19	19	17	21	20
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953:	19	17	18	26	28	35	40	14
961:	22	25	53	126	199	103	85	281
969:	494	306	81	23	11	22	19	18
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985:	28	19	28	26	19	15	14	24
993:	17	18	14	12	19	25	16	40
1001:	62	44	18	15	26	18	21	19
1009:	25	16	18	23	18	13	26	9
1017:	15	25	25	17	11	19	20	17
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1041:	20	25	15	13	15	16	15	26
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1073:	18	13	12	17	31	28	29	22
1081:	16	12	19	14	12	8	12	12
1089:	19	14	19	14	16	33	28	20
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1113:	12	16	15	12	21	22	67	125
1121:	120	43	18	17	14	17	16	13
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1137:	16	11	16	9	23	16	18	20
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1177:	14	8	14	14	12	18	12	7
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1209:	12	20	19	18	12	9	13	21
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1313:	19	14	14	15	27	14	18	10
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1353:	9	13	15	15	15	19	15	9
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1369:	9	12	13	17	13	17	25	26
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1409:	27	16	12	12	14	8	10	15
1417:	12	13	11	6	14	12	11	13
1425:	11	13	7	10	15	10	14	20
1433:	15	7	12	13	10	14	17	14
1441:	8	9	9	17	8	12	10	13
1449:	14	7	6	20	14	9	19	15
1457:	11	19	20	28	12	11	10	11
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1473:	11	15	11	11	11	12	12	18
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1497:	12	12	10	18	25	17	11	11
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1649:	8	5	14	9	11	4	6	11
1657:	4	8	10	16	21	14	8	6
1665:	21	14	18	10	9	6	9	5
1673:	5	4	9	7	14	9	6	3
1681:	9	14	8	9	7	7	8	6
1689:	9	4	9	15	7	10	11	7
1697:	8	6	6	6	10	7	6	6
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1729:	19	15	13	6	10	5	8	5
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1745:	13	4	6	8	10	12	4	13
1753:	9	7	8	7	12	9	10	11
1761:	13	13	53	88	72	32	15	6
1769:	8	10	10	9	8	5	8	6
1777:	7	8	12	11	5	7	2	6
1785:	12	9	4	8	8	10	10	6
1793:	9	3	9	6	7	7	7	7
1801:	4	10	8	6	17	6	10	8
1809:	8	12	9	9	12	8	15	6
1817:	6	6	2	12	6	10	7	9
1825:	8	9	9	6	6	8	11	5
1833:	10	11	7	7	7	14	9	7
1841:	2	6	11	8	7	15	24	14
1849:	19	12	7	7	12	9	9	7
1857:	9	9	7	7	5	9	7	3
1865:	6	13	9	6	9	6	9	14

1873:	16	9	11	7	11	10	5	11
1881:	8	10	10	9	8	9	12	13
1889:	8	4	6	5	7	7	11	6
1897:	9	11	9	12	8	7	11	13
1905:	12	10	8	12	11	8	10	11
1913:	5	14	14	8	4	7	8	11
1921:	13	11	16	9	4	9	8	11
1929:	6	8	8	10	7	12	12	11
1937:	12	5	13	5	3	9	16	13
1945:	5	10	9	14	9	11	14	12
1953:	15	10	14	9	10	9	7	8
1961:	9	8	6	9	13	9	6	13
1969:	17	6	5	10	9	8	6	8
1977:	10	8	14	11	8	13	8	8
1985:	8	6	8	7	9	17	9	6
1993:	5	11	7	8	4	6	8	15
2001:	10	4	7	10	4	11	5	4
2009:	8	13	7	9	6	6	7	10
2017:	6	7	10	11	7	3	12	8
2025:	1	5	4	12	6	5	9	7
2033:	11	7	10	11	9	9	8	3
2041:	5	14	8	6	4	8	7	3
2049:	6	6	9	11	12	6	4	7
2057:	7	13	7	6	8	12	4	4
2065:	8	8	6	7	6	6	6	10
2073:	15	5	9	5	8	7	4	9
2081:	10	12	11	9	9	3	8	10
2089:	7	10	3	9	12	2	10	8
2097:	5	11	9	11	15	47	54	48
2105:	32	16	13	12	10	17	11	14
2113:	11	7	8	8	10	9	14	8
2121:	7	5	6	7	10	10	5	10
2129:	12	3	7	12	8	11	12	12
2137:	7	6	7	5	5	7	6	7
2145:	11	11	5	9	15	5	8	13
2153:	6	7	10	5	12	11	9	6
2161:	7	16	17	8	6	8	7	13
2169:	12	10	15	3	6	11	13	7
2177:	8	9	6	9	12	12	8	11
2185:	5	6	6	13	4	9	11	10
2193:	4	6	16	14	7	6	5	12
2201:	12	9	28	31	25	12	11	10
2209:	4	9	7	9	10	11	10	9
2217:	12	17	10	9	11	8	11	7
2225:	8	6	9	11	11	10	7	7
2233:	11	3	7	9	13	13	7	12
2241:	9	16	11	12	13	16	13	14
2249:	15	15	14	13	16	18	10	9
2257:	4	17	7	15	14	12	9	9
2265:	11	7	9	8	12	10	6	10
2273:	8	9	10	3	10	14	10	16
2281:	9	10	16	12	8	10	11	8
2289:	14	6	7	10	11	16	16	8
2297:	13	15	13	11	14	11	16	12
2305:	5	9	11	14	12	11	19	11
2313:	11	8	9	13	16	10	8	7
2321:	12	8	14	14	9	7	9	11
2329:	13	9	8	11	16	18	11	10
2337:	20	11	18	15	15	13	10	12
2345:	11	16	14	12	15	15	20	13

2353:	11	11	14	12	8	10	19	15
2361:	15	11	9	8	13	17	16	11
2369:	14	19	12	17	17	13	15	11
2377:	9	6	9	9	10	16	20	10
2385:	13	3	14	8	5	12	12	10
2393:	8	5	6	8	10	3	15	11
2401:	5	8	6	6	8	6	13	7
2409:	11	10	12	5	13	14	13	6
2417:	10	10	4	8	9	7	10	11
2425:	3	10	3	7	11	10	6	8
2433:	11	6	7	8	10	8	6	6
2441:	3	5	3	5	10	7	19	12
2449:	7	6	9	4	6	6	4	8
2457:	6	10	7	5	14	8	6	3
2465:	6	6	5	5	2	6	7	4
2473:	3	5	4	6	9	6	6	3
2481:	4	6	3	7	4	4	3	11
2489:	2	3	3	1	4	3	0	1
2497:	2	1	4	8	6	3	2	7
2505:	5	4	5	4	2	3	4	4
2513:	1	2	1	2	2	1	3	0
2521:	5	3	0	1	4	2	3	5
2529:	2	4	2	1	0	0	1	1
2537:	1	5	3	1	6	2	3	2
2545:	2	1	1	3	0	1	2	2
2553:	0	1	3	5	0	4	2	1
2561:	1	2	2	2	1	0	0	1
2569:	3	4	0	1	2	2	0	0
2577:	1	1	3	0	0	0	5	4
2585:	1	1	2	4	4	1	1	1
2593:	2	0	2	4	5	3	3	2
2601:	0	1	2	1	3	3	4	8
2609:	3	7	15	78	209	324	312	145
2617:	34	7	1	3	0	0	0	1
2625:	1	0	1	0	0	1	0	2
2633:	0	1	1	1	0	0	2	1
2641:	0	0	2	0	0	0	1	1
2649:	2	1	0	1	0	0	0	0
2657:	0	1	2	3	1	0	1	0
2665:	1	0	2	1	0	2	0	2
2673:	0	1	2	1	3	1	0	0
2681:	1	0	0	1	1	3	0	0
2689:	3	0	0	0	0	0	0	0
2697:	0	1	0	2	0	0	0	0
2705:	1	2	0	0	1	0	0	3
2713:	1	1	3	0	2	0	1	1
2721:	1	2	0	2	2	2	1	1
2729:	1	0	0	0	1	0	0	0
2737:	2	0	2	0	0	2	1	0
2745:	1	2	1	0	1	1	0	2
2753:	0	1	0	2	0	0	2	0
2761:	1	1	0	0	0	2	1	2
2769:	2	0	2	1	0	1	2	0
2777:	0	0	0	1	0	0	0	0
2785:	1	1	2	4	0	0	0	0
2793:	0	0	2	0	0	0	1	2
2801:	2	0	0	1	1	0	1	0
2809:	0	1	0	0	2	0	0	2
2817:	1	0	1	0	0	1	0	0
2825:	0	0	0	0	1	1	0	2

2833:	0	0	0	0	2	1	0	0
2841:	0	2	0	0	1	1	0	0
2849:	1	0	2	0	0	0	2	0
2857:	1	1	0	1	0	0	0	0
2865:	0	0	2	0	0	1	0	1
2873:	1	1	0	0	0	0	0	1
2881:	0	0	1	0	0	0	0	1
2889:	0	3	2	1	2	0	0	0
2897:	1	2	0	1	0	0	0	1
2905:	0	1	0	0	1	2	0	0
2913:	1	0	1	1	0	1	0	0
2921:	0	0	1	0	1	0	2	1
2929:	0	1	2	1	1	1	1	1
2937:	0	1	0	1	0	0	0	0
2945:	0	1	1	0	0	0	1	1
2953:	1	0	1	0	1	0	0	0
2961:	0	0	0	0	0	0	0	0
2969:	0	0	0	1	0	2	1	1
2977:	0	1	0	1	0	1	1	0
2985:	1	1	0	0	0	0	0	0
2993:	0	0	0	0	0	0	2	0
3001:	0	0	0	1	0	0	0	1
3009:	0	2	0	0	0	1	0	1
3017:	1	1	0	0	0	0	1	0
3025:	0	0	0	0	1	0	0	1
3033:	1	0	0	0	0	0	2	0
3041:	1	0	0	0	0	0	0	2
3049:	0	1	0	2	0	0	1	0
3057:	0	0	0	0	1	0	1	0
3065:	0	0	0	1	3	0	0	1
3073:	0	0	0	0	2	0	0	0
3081:	0	0	0	1	1	0	0	0
3089:	0	1	2	0	0	0	0	0
3097:	0	0	1	1	0	0	0	0
3105:	0	0	0	0	0	0	1	0
3113:	0	0	1	0	0	0	1	1
3121:	0	1	1	1	0	1	0	0
3129:	0	0	0	0	0	0	0	0
3137:	0	0	0	0	0	0	0	1
3145:	0	0	1	0	0	0	0	0
3153:	0	0	1	0	0	0	0	0
3161:	0	0	1	0	0	0	0	0
3169:	0	1	0	0	0	0	0	0
3177:	0	0	0	0	0	0	1	0
3185:	0	0	0	0	0	1	0	0
3193:	2	0	0	3	4	5	0	0
3201:	0	0	1	0	2	0	0	0
3209:	0	1	1	0	0	0	0	0
3217:	0	0	0	0	0	0	0	0
3225:	0	1	0	1	0	0	0	0
3233:	1	0	0	1	1	0	0	0
3241:	0	0	0	0	0	0	0	0
3249:	1	0	1	0	0	0	0	1
3257:	0	0	0	0	0	0	0	0
3265:	0	0	0	0	0	1	1	0
3273:	0	3	1	0	0	0	0	0
3281:	0	0	0	1	0	0	0	0
3289:	0	0	0	0	0	0	0	0
3297:	0	0	0	0	0	0	0	0
3305:	0	0	0	0	0	0	0	0

3313:	0	0	0	0	0	0	0	0
3321:	0	0	0	1	0	0	0	1
3329:	0	0	0	1	0	0	1	0
3337:	0	0	0	0	2	0	0	0
3345:	0	0	0	0	0	0	0	0
3353:	0	0	0	0	1	0	0	0
3361:	0	0	0	0	0	0	0	0
3369:	0	0	0	0	0	0	1	0
3377:	0	0	0	0	0	0	0	0
3385:	0	0	0	0	0	0	1	0
3393:	0	1	0	0	0	1	0	0
3401:	0	1	0	1	0	0	0	0
3409:	0	0	0	0	0	0	0	0
3417:	0	0	0	0	0	0	0	0
3425:	0	0	1	1	1	1	0	0
3433:	0	0	0	0	0	0	1	0
3441:	0	0	0	0	1	1	0	0
3449:	0	1	0	0	0	0	1	0
3457:	0	1	0	0	0	0	0	0
3465:	0	0	0	0	0	0	0	0
3473:	0	1	0	0	1	0	0	0
3481:	1	0	0	0	0	1	0	0
3489:	0	0	0	0	1	0	0	0
3497:	0	0	1	0	0	0	0	1
3505:	0	0	0	0	0	1	1	0
3513:	0	0	0	0	0	0	0	0
3521:	0	0	0	0	0	0	0	0
3529:	0	0	1	0	0	0	0	0
3537:	0	0	0	1	0	1	0	0
3545:	1	0	0	1	0	0	1	1
3553:	0	0	0	0	0	0	0	0
3561:	0	0	0	0	0	0	0	0
3569:	1	0	0	0	0	0	1	1
3577:	0	0	0	0	0	0	0	0
3585:	0	0	0	0	0	0	0	0
3593:	0	0	0	0	0	1	0	0
3601:	0	0	1	0	0	0	0	0
3609:	0	2	0	0	0	0	0	0
3617:	0	0	1	0	0	0	0	0
3625:	0	0	0	0	0	0	0	1
3633:	0	0	0	0	1	0	0	0
3641:	0	0	0	0	0	0	1	0
3649:	0	0	0	0	0	0	0	2
3657:	0	0	0	0	0	0	0	0
3665:	0	0	0	0	0	0	0	0
3673:	0	0	0	0	0	0	0	0
3681:	0	0	0	0	0	0	0	0
3689:	0	0	0	0	0	0	1	0
3697:	0	0	0	0	0	0	0	1
3705:	0	1	0	0	0	0	0	0
3713:	0	0	0	0	0	0	0	0
3721:	0	0	0	0	0	0	0	0
3729:	0	2	0	0	0	0	0	0
3737:	0	0	0	0	0	0	0	1
3745:	0	0	0	0	0	0	0	0
3753:	0	0	0	0	0	0	0	0
3761:	0	0	0	0	0	0	0	1
3769:	0	0	0	0	0	0	0	0
3777:	0	1	0	0	0	0	1	0
3785:	0	0	0	0	0	0	0	0

3793:	0	0	0	0	0	1	0	0
3801:	0	0	0	0	0	0	0	2
3809:	0	0	0	0	0	0	0	0
3817:	0	0	0	0	0	1	0	1
3825:	0	0	0	0	0	0	0	0
3833:	0	0	0	0	0	0	0	0
3841:	0	0	0	0	0	0	0	1
3849:	0	0	0	1	0	0	0	0
3857:	0	0	0	0	0	0	0	1
3865:	0	0	0	0	0	0	0	0
3873:	0	0	0	1	0	0	0	0
3881:	0	0	0	0	0	0	0	1
3889:	0	0	0	0	0	0	0	0
3897:	0	1	0	0	1	0	0	1
3905:	0	1	0	0	0	0	0	0
3913:	0	0	0	0	1	0	0	0
3921:	0	0	0	1	0	0	0	0
3929:	0	0	0	0	1	0	1	0
3937:	0	0	0	0	0	0	0	0
3945:	0	0	0	0	0	0	0	0
3953:	0	0	0	0	0	0	0	0
3961:	0	0	1	1	0	0	0	0
3969:	0	0	0	0	0	1	0	0
3977:	0	1	0	0	0	0	0	0
3985:	0	0	0	0	1	0	1	0
3993:	0	0	0	0	1	0	0	0
4001:	0	0	0	0	0	0	1	0
4009:	0	0	0	0	0	0	0	0
4017:	1	1	0	0	0	1	0	0
4025:	0	0	0	0	0	0	0	0
4033:	1	0	0	0	0	1	0	0
4041:	0	0	0	0	0	1	0	1
4049:	0	0	0	0	0	0	0	0
4057:	0	0	0	0	0	0	0	0
4065:	0	0	1	0	0	0	0	0
4073:	0	0	0	1	0	0	0	0
4081:	0	0	0	0	0	0	0	1
4089:	0	1	0	1	0	0	0	0

QA filename : DKA100:[GAMMA.SCUSR.QA]QCC_GE1_GAS1002.QAF;1

Sample ID : Calib Check
Sample date : 1-JAN-2010 00:00:00
Elapsed live time: 0 00:15:00.00
Sample quantity : 736. GRAM
Acquisition date : 9-JUL-2010 03:52:21
Elapsed real time: 0 00:15:27.85

Out-of-range Test: BOUNDARY

Parameter Description	Lower	Upper	Value	Flag
*Peak Centroid 59.54 kev	58	61	59	
*Peak Centroid 661.65 kev	660	663	662	
*Peak Centroid 1173.22 kev	1172	1175	1174	
*Peak Centroid 1332.49 kev	1331	1334	1333	
*Peak Centroid 1836.01 kev	1835	1838	1837	
*Peak FWHM Am-241 59.54 kev	0.5	3.0	1.8	
*Peak FWHM Cs-137 661.65 kev	0.5	3.0	2.2	
*Peak FWHM Co-60 1173.22 kev	0.5	3.0	2.5	
*Peak FWHM Co-60 1332.49 kev	0.5	3.0	2.6	
*Peak FWHM Y-88 1836.01 kev	0.5	3.0	2.8	
*DC Activity Am-241 59.54 kev	186	227	204	
*DC Activity Cs-137 661.65 kev	74	91	82	
*DC Activity Co-60 1173.22 kev	119	145	125	
*DC Activity Co-60 1332.49 kev	119	145	127	
*DC Activity Y-88 1836.01 kev	250	306	255	

Flags: "*" means the out-of-range test is parameter-dependent

Approved by: KM Approval Date: 7 / 9 / 10

QA filename : DKA100:[GAMMA.SCUSR.QA]QCC_GE4_GAS1002.QAF;1

Sample ID : Calib Check
Sample date : 1-JAN-2010 00:00:00
Elapsed live time: 0 00:15:00.00

Sample quantity : 736. GRAM
Acquisition date : 9-JUL-2010 03:34:4
Elapsed real time: 0 00:15:22.35

Out-of-range Test: BOUNDARY

Parameter Description	Lower	Upper	Value	Flag
*Peak Centroid 59.54 kev	58	61	60	
*Peak Centroid 661.65 kev	660	663	662	
*Peak Centroid 1173.22 kev	1172	1175	1173	
*Peak Centroid 1332.49 kev	1331	1334	1333	
*Peak Centroid 1836.01 kev	1835	1838	1836	
*Peak FWHM Am-241 59.54 kev	0.5	3.0	2.3	
*Peak FWHM Cs-137 661.65 kev	0.5	3.0	2.1	
*Peak FWHM Co-60 1173.22 kev	0.5	3.0	2.4	
*Peak FWHM Co-60 1332.49 kev	0.5	3.0	2.4	
*Peak FWHM Y-88 1836.01 kev	0.5	3.0	2.7	
*DC Activity Am-241 59.54 kev	186	227	208	
*DC Activity Cs-137 661.65 kev	74	91	85	
*DC Activity Co-60 1173.22 kev	119	145	141	
*DC Activity Co-60 1332.49 kev	119	145	140	
*DC Activity Y-88 1836.01 kev	250	306	274	

Flags: "*" means the out-of-range test is parameter-dependent

Approved by: KM Approval Date: 7 / 9 / 10

QA filename : DKA100:[GAMMA.SCUSR.QA]QCB_GE1.QAF;1

Sample ID : Bkgrnd Check
Sample date : 9-JUL-2010 04:09:33
Elapsed live time: 0 00:15:00.00
Sample quantity : 1.00 EACH
Acquisition date : 9-JUL-2010 04:09:33
Elapsed real time: 0 00:15:00.15

Out-of-range Test: N-SIGMA

Parameter Description [Mean+/-Stdev]	Value	Deviation	Flag
Background Counts [1838+/-225]	1945	0.47	
Background Rate [2.05+/-0.24]	2.16	0.48	

Flags: "*" means the out-of-range test is parameter-dependent

Approved by: KM Approval Date: 7/9/10

QA filename : DKA100:[GAMMA.SCUSR.QA]QCB_GE4.QAF;1

Sample ID : Bkgrnd Check
Sample date : 9-JUL-2010 04:09:44
Elapsed live time: 0 00:15:00.00

Sample quantity : 1.00 EACH
Acquisition date : 9-JUL-2010 04:09:44
Elapsed real time: 0 00:15:00.20

Out-of-range Test: N-SIGMA

Parameter Description [Mean+/-Stdev]	Value	Deviation	Flag
Background Counts [1424+/-47]	1379	-0.96	
Background Rate [1.583+/-0.052]	1.532	-0.96	

Flags: "*" means the out-of-range test is parameter-dependent

Approved by: KM Approval Date: 7 / 9 / 10