Semivolatile Organics
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

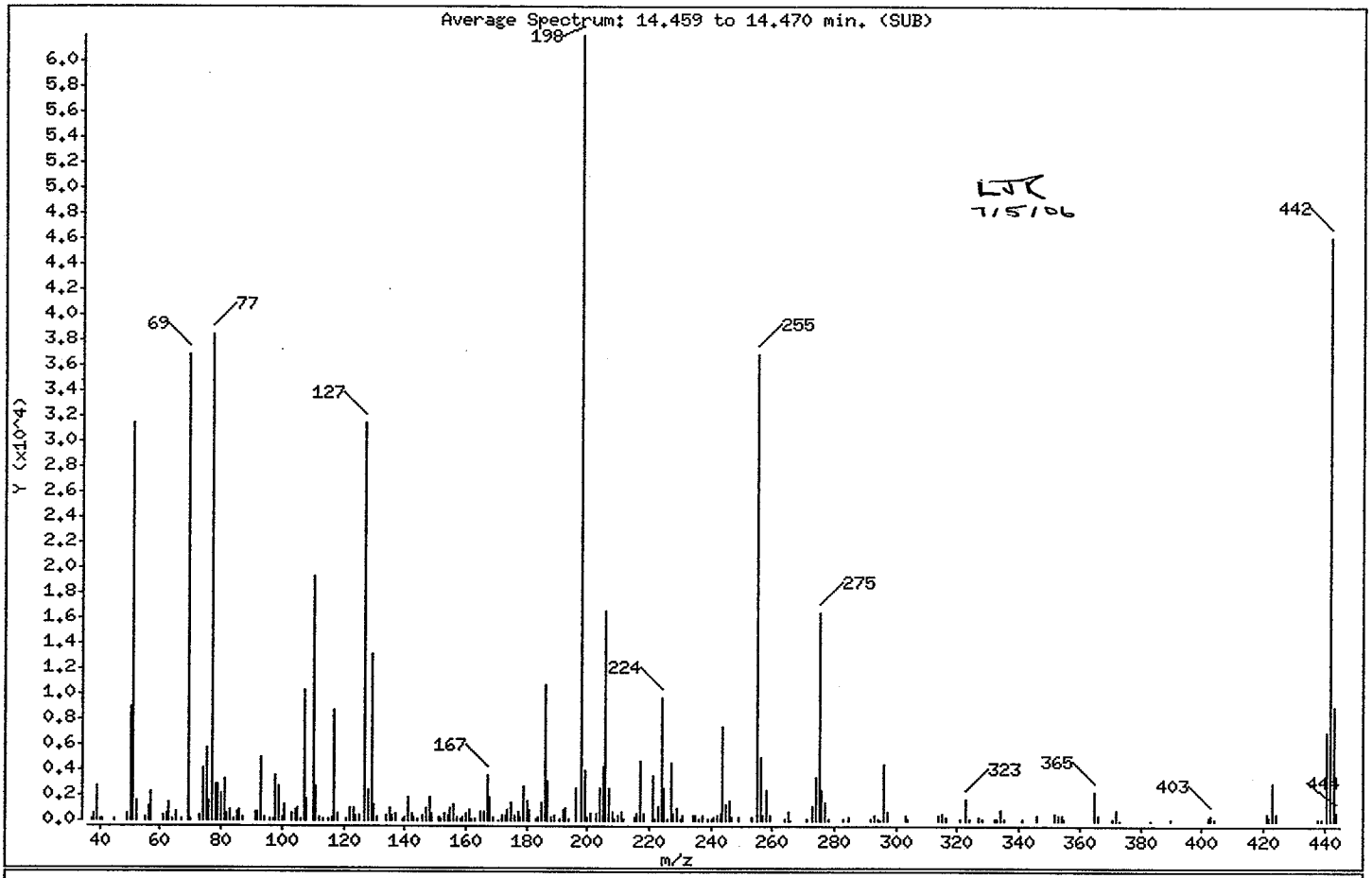
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	50.77
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	59.54
70	Less than 2.00% of mass 69	0.33 (0.56)
127	25.00 - 75.00% of mass 198	50.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.36
275	10.00 - 30.00% of mass 198	26.60
365	Greater than 0.75% of mass 198	3.73
441	Present, but less than mass 443	11.32
442	40.00 - 110.00% of mass 198	74.52
443	15.00 - 24.00% of mass 442	14.43 (19.37)

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250705.d
Spectrum: Average Spectrum: 14.459 to 14.470 min. (SUB)
Location of Maximum: 198.00
Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	196	118.00	554	188.00	289	271.00	78
38.00	604	121.00	77	189.00	488	273.00	1191
39.00	2711	122.00	991	191.00	196	274.00	3389
40.00	148	123.00	1020	192.00	808	275.00	16472
41.00	190	124.00	453	193.00	981	276.00	2385
45.00	72	125.00	358	194.00	87	277.00	1379
49.00	564	127.00	31384	196.00	2502	278.00	118
50.00	8950	128.00	2494	198.00	61952	283.00	87
51.00	31448	129.00	13156	199.00	3938	285.00	317
52.00	1622	130.00	1258	200.00	317	292.00	77
55.00	283	131.00	225	201.00	574	293.00	427
56.00	1108	134.00	480	203.00	576	294.00	75
57.00	2273	135.00	979	204.00	2565	295.00	70
61.00	484	136.00	390	205.00	4253	296.00	4442
62.00	513	137.00	578	206.00	16544	297.00	657
63.00	1471	139.00	112	207.00	2573	303.00	454
64.00	178	140.00	340	208.00	745	304.00	196
65.00	647	141.00	1818	209.00	78	314.00	362
67.00	72	142.00	512	210.00	469	315.00	594
69.00	36888	143.00	353	211.00	760	316.00	286
70.00	205	144.00	79	212.00	135	321.00	79
73.00	391	146.00	404	215.00	321	323.00	1659
74.00	4168	147.00	978	216.00	521	324.00	189
75.00	5689	148.00	1895	217.00	4653	327.00	220
76.00	1601	149.00	507	218.00	543	328.00	75
77.00	38448	151.00	271	221.00	3526	332.00	90
78.00	2869	152.00	160	222.00	109	333.00	145
79.00	2879	153.00	628	223.00	1160	334.00	915
80.00	2194	154.00	384	224.00	9742	335.00	84
81.00	3307	155.00	971	225.00	2518	341.00	105
82.00	629	156.00	1291	226.00	189	346.00	395
83.00	823	157.00	313	227.00	4541	352.00	565
84.00	189	158.00	172	228.00	622	353.00	393
85.00	645	159.00	221	229.00	952	354.00	386
86.00	841	160.00	536	230.00	93	355.00	83

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250705.d

Spectrum: Average Spectrum: 14.459 to 14.470 min. (SUB)

Location of Maximum: 198.00

Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	303	161.00	853	231.00	435	365.00	2310
91.00	686	162.00	146	234.00	396	366.00	361
92.00	773	163.00	79	235.00	459	371.00	85
93.00	4935	165.00	731	236.00	197	372.00	830
94.00	337	166.00	710	237.00	374	373.00	69
96.00	90	167.00	3504	239.00	192	383.00	71
97.00	77	168.00	1805	240.00	83	390.00	81
98.00	3507	169.00	308	241.00	243	402.00	252
99.00	2686	171.00	69	242.00	452	403.00	407
100.00	292	172.00	380	243.00	607	404.00	175
101.00	1350	173.00	426	244.00	7403	421.00	554
103.00	641	174.00	797	245.00	1258	422.00	250
104.00	918	175.00	1421	246.00	1514	423.00	2953
105.00	1030	176.00	394	247.00	333	424.00	596
106.00	109	177.00	691	249.00	301	438.00	181
107.00	10276	178.00	290	253.00	256	439.00	199
108.00	1675	179.00	2673	255.00	36880	441.00	7012
110.00	19256	180.00	1587	256.00	4967	442.00	46168
111.00	2649	181.00	804	257.00	493	443.00	8942
112.00	304	183.00	84	258.00	2453	444.00	779
113.00	76	184.00	263	259.00	474		
115.00	90	185.00	1360	264.00	88		
116.00	286	186.00	10663	265.00	732		
117.00	8714	187.00	3170	266.00	70		

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

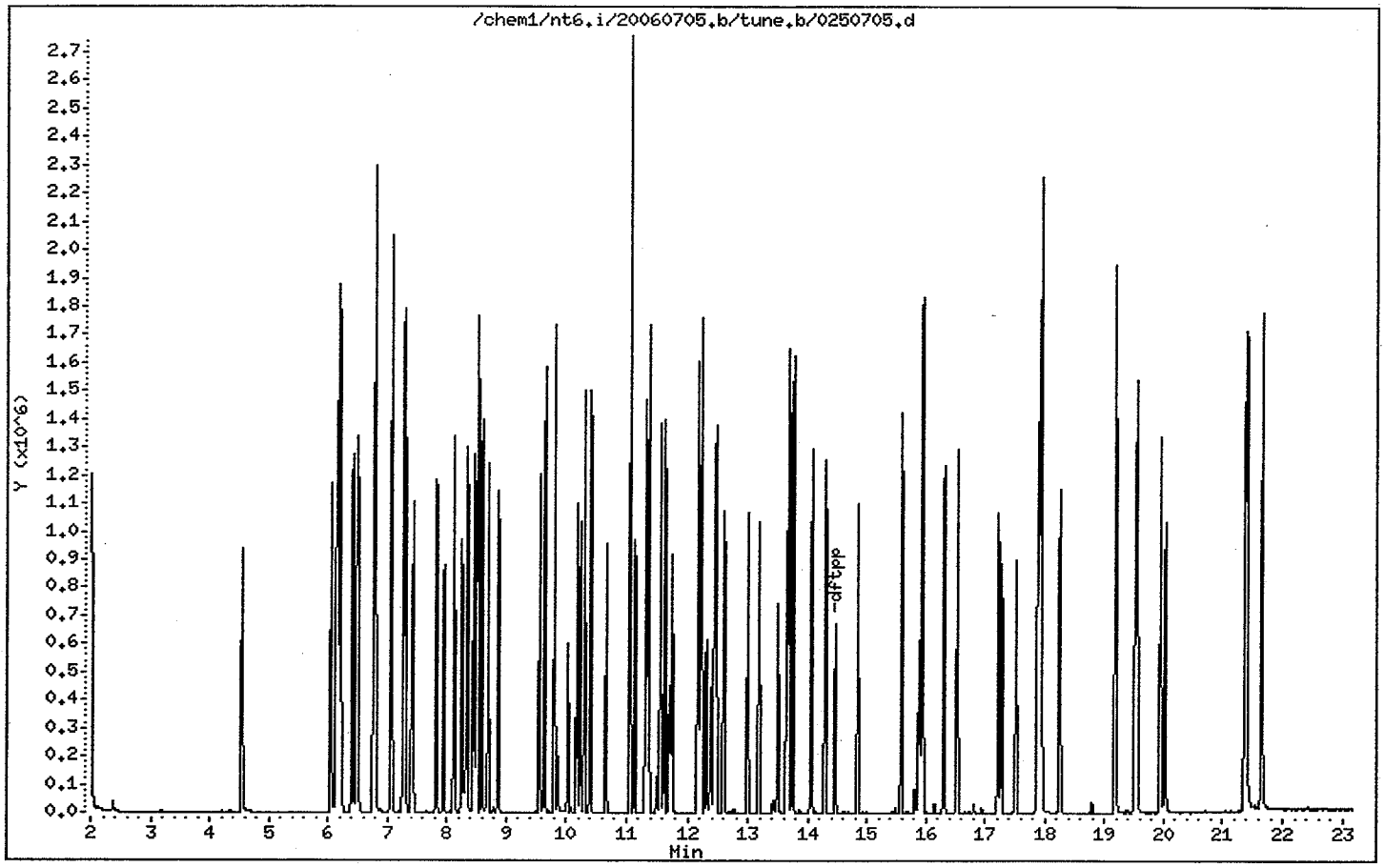
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060801.b/tune.b/cc0801.d

Date : 01-AUG-2006 11:57

Client ID:

Instrument: nt6.i

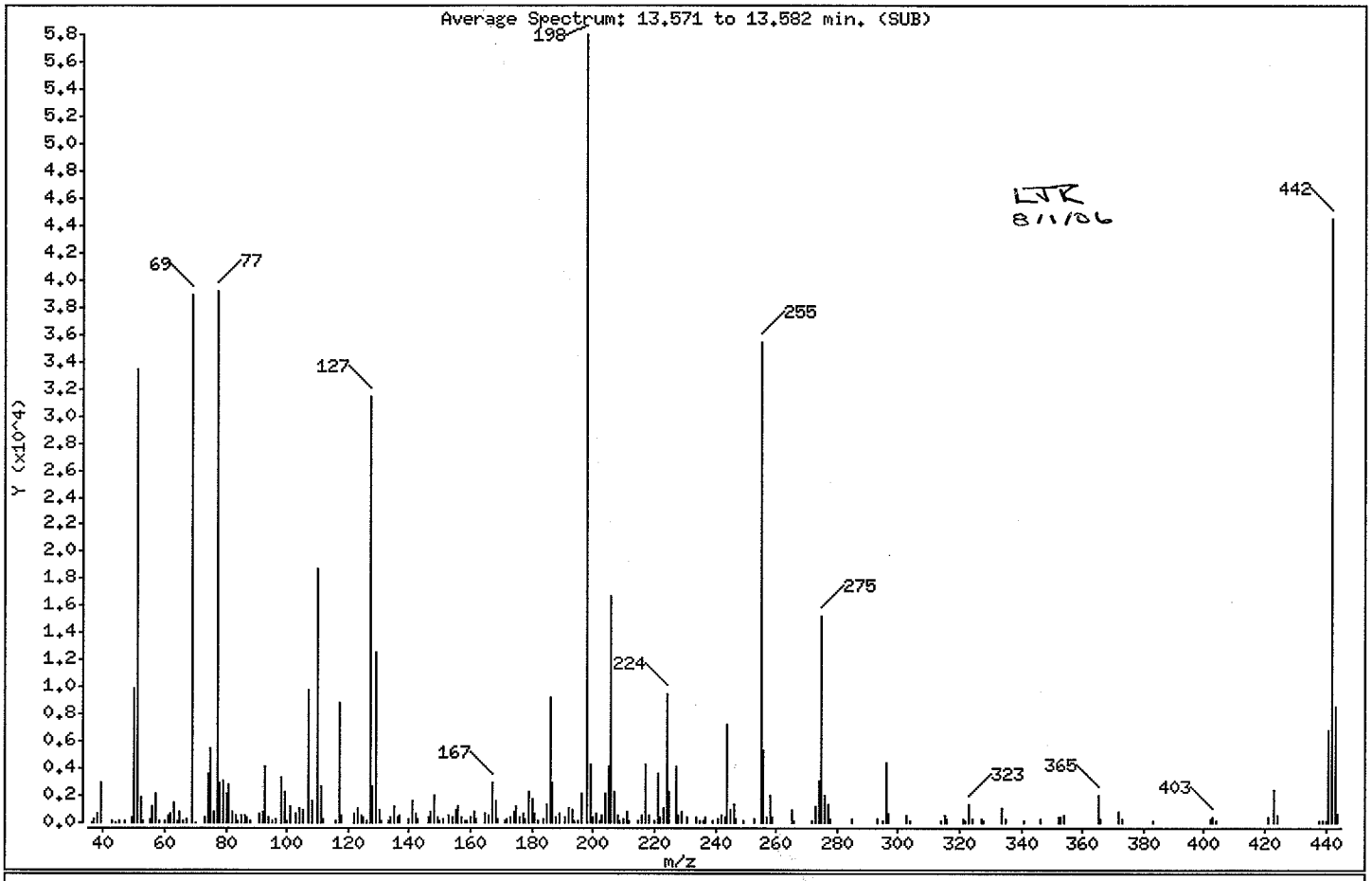
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	57.55
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	67.14
70	Less than 2.00% of mass 69	0.05 (0.07)
127	25.00 - 75.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.34
275	10.00 - 30.00% of mass 198	26.36
365	Greater than 0.75% of mass 198	3.39
441	Present, but less than mass 443	11.83
442	40.00 - 110.00% of mass 198	76.79
443	15.00 - 24.00% of mass 442	14.67 (19.11)

Data File: /chem1/nt6.i/20060801.b/tune.b/cc0801.d

Date : 01-AUG-2006 11:57

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0801.d

Spectrum: Average Spectrum: 13.571 to 13.582 min. (SUB)

Location of Maximum: 198.00

Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	28	108.00	1597	181.00	709	255.00	35416
37.00	276	110.00	18672	182.00	149	256.00	5293
38.00	659	111.00	2694	184.00	274	257.00	352
39.00	2966	112.00	318	185.00	1371	258.00	1999
43.00	67	116.00	175	186.00	9283	259.00	346
44.00	31	117.00	8846	187.00	2882	265.00	893
45.00	185	118.00	551	188.00	364	266.00	75
47.00	87	122.00	708	189.00	693	272.00	69
49.00	361	123.00	1116	191.00	420	273.00	1240
50.00	9833	124.00	508	192.00	1017	274.00	3026
51.00	33392	125.00	425	193.00	893	275.00	15295
52.00	1829	126.00	95	194.00	71	276.00	1976
53.00	134	127.00	31416	195.00	72	277.00	1386
55.00	261	128.00	2648	196.00	2164	278.00	317
56.00	1184	129.00	12621	198.00	58032	285.00	241
57.00	2166	130.00	963	199.00	4260	293.00	334
58.00	117	131.00	153	200.00	348	295.00	80
60.00	89	133.00	99	201.00	627	296.00	4387
61.00	490	134.00	427	202.00	86	297.00	619
62.00	612	135.00	1183	203.00	505	303.00	542
63.00	1522	136.00	448	204.00	2185	304.00	81
64.00	74	137.00	538	205.00	4121	314.00	165
65.00	781	140.00	254	206.00	16648	315.00	524
66.00	67	141.00	1605	207.00	2216	316.00	232
67.00	234	142.00	607	208.00	573	321.00	221
69.00	38960	143.00	318	209.00	180	322.00	82
70.00	28	146.00	375	210.00	218	323.00	1331
73.00	455	147.00	749	211.00	783	324.00	239
74.00	3671	148.00	2054	212.00	97	327.00	333
75.00	5534	149.00	371	215.00	150	328.00	74
76.00	755	150.00	70	216.00	473	334.00	1023
77.00	39152	151.00	230	217.00	4314	335.00	311
78.00	2964	153.00	489	218.00	541	341.00	98
79.00	3137	154.00	383	220.00	127	346.00	328
80.00	2165	155.00	908	221.00	3611	352.00	446

Date : 01-AUG-2006 11:57

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0801.d

Spectrum: Average Spectrum: 13.571 to 13.582 min. (SUB)

Location of Maximum: 198.00

Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	2754	156.00	1226	222.00	416	353.00	339
82.00	745	157.00	383	223.00	1027	354.00	540
83.00	584	158.00	127	224.00	9486	365.00	1967
84.00	147	159.00	174	225.00	2217	366.00	257
85.00	581	160.00	460	227.00	4138	372.00	846
86.00	566	161.00	745	228.00	524	373.00	215
87.00	465	162.00	268	229.00	752	383.00	69
88.00	158	165.00	622	231.00	365	402.00	236
91.00	606	166.00	553	234.00	353	403.00	465
92.00	854	167.00	2875	235.00	197	404.00	73
93.00	4174	168.00	1592	236.00	195	421.00	462
94.00	394	169.00	265	237.00	341	423.00	2415
95.00	144	171.00	161	239.00	74	424.00	499
96.00	281	172.00	268	241.00	294	438.00	140
98.00	3286	173.00	446	242.00	480	439.00	172
99.00	2284	174.00	791	243.00	373	440.00	92
100.00	167	175.00	1222	244.00	7270	441.00	6866
101.00	1196	176.00	370	245.00	965	442.00	44560
103.00	607	177.00	642	246.00	1327	443.00	8516
104.00	1085	178.00	284	247.00	276	444.00	729
105.00	912	179.00	2250	249.00	88		
107.00	9790	180.00	1691	253.00	223		

Data File: /chem1/nt6.i/20060801.b/tune.b/cc0801.d

Date : 01-AUG-2006 11:57

Client ID:

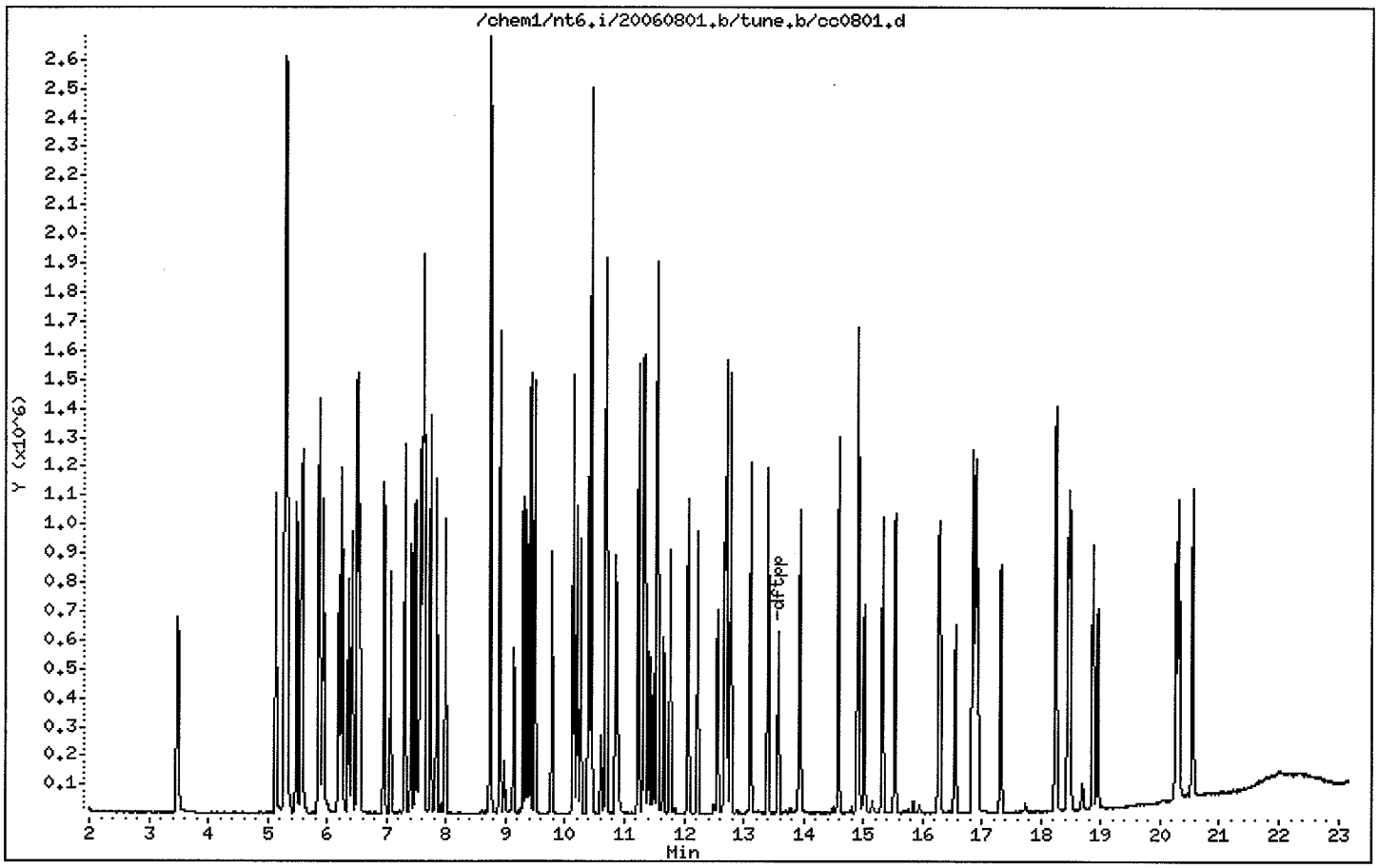
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060803.b/tune.b/cc0803.d

Date : 03-AUG-2006 07:18

Client ID:

Instrument: nt6.i

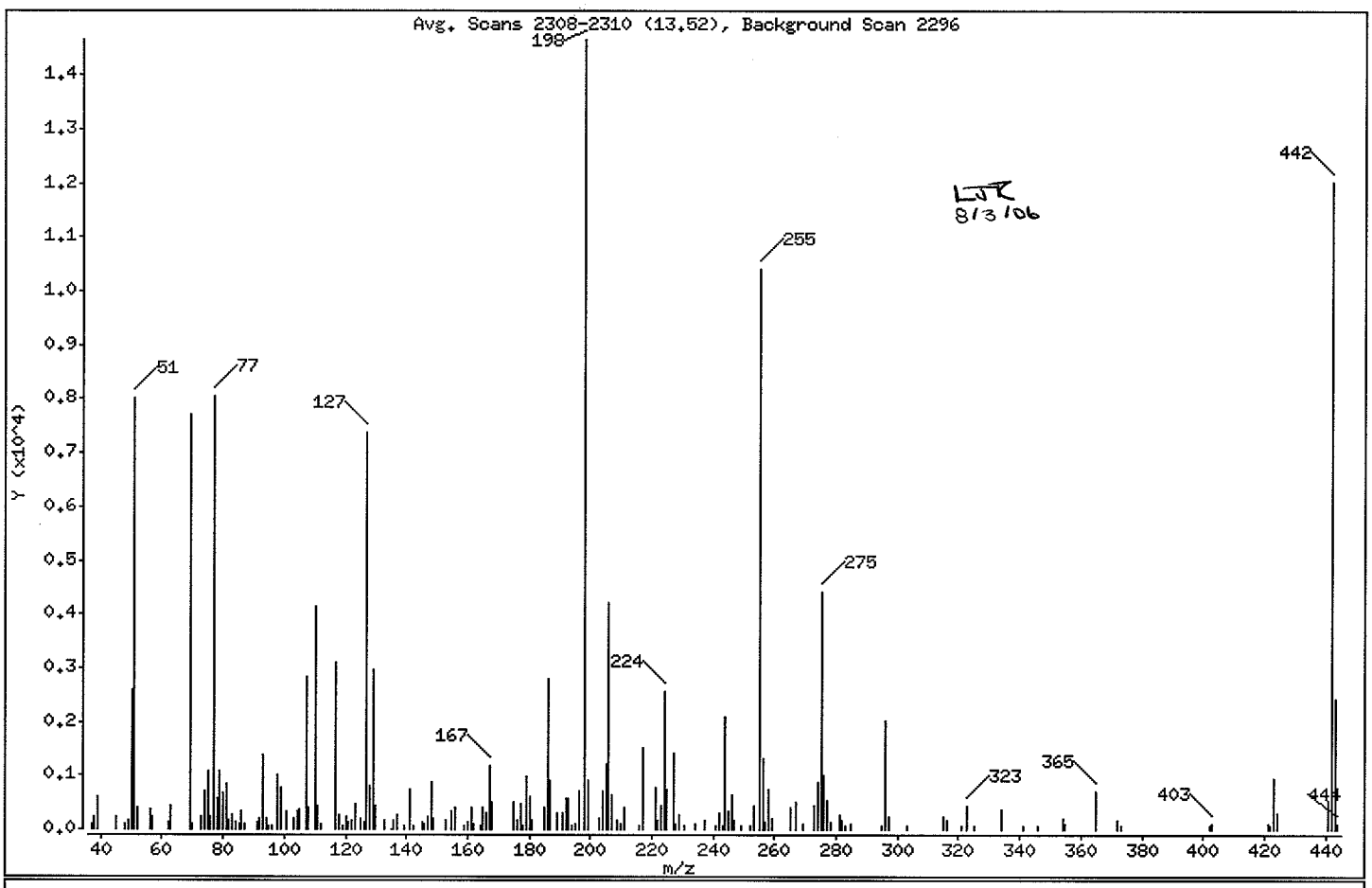
Sample Info: CC0803

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	51.82
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.07
70	Less than 2.00% of mass 69	0.34 (0.62)
127	25.00 - 75.00% of mass 198	50.87
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 30.00% of mass 198	29.61
365	Greater than 0.75% of mass 198	4.88
441	Present, but less than mass 443	7.72
442	40.00 - 110.00% of mass 198	81.09
443	15.00 - 24.00% of mass 442	15.98 (19.71)

Data File: /chem1/nt6.i/20060803.b/tune.b/cc0803.d

Date : 03-AUG-2006 07:18

Client ID:

Instrument: nt6.i

Sample Info: CC0803

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0803.d

Spectrum: Avg. Scans 2308-2310 (13.52), Background Scan 2296

Location of Maximum: 198.00

Number of points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	101	111.00	448	181.00	179	256.00	1322
38.00	220	112.00	87	185.00	389	257.00	142
39.00	597	117.00	3115	186.00	2790	258.00	748
45.00	245	118.00	253	187.00	894	259.00	189
48.00	91	119.00	78	189.00	302	265.00	389
49.00	172	120.00	220	191.00	317	267.00	495
50.00	2581	121.00	145	192.00	587	269.00	108
51.00	8028	122.00	181	193.00	575	273.00	425
52.00	413	123.00	484	194.00	76	274.00	876
56.00	361	125.00	205	195.00	97	275.00	4397
57.00	243	126.00	119	196.00	704	276.00	1010
62.00	137	127.00	7378	198.00	14650	277.00	544
63.00	448	128.00	812	199.00	911	278.00	132
69.00	7724	129.00	2972	203.00	191	281.00	261
70.00	101	130.00	437	204.00	707	282.00	161
73.00	237	133.00	179	205.00	1216	283.00	55
74.00	691	135.00	10	206.00	4215	285.00	92
75.00	1061	136.00	158	207.00	650	295.00	80
76.00	248	137.00	260	209.00	178	296.00	2032
77.00	8046	139.00	81	210.00	95	297.00	226
78.00	557	141.00	730	211.00	408	303.00	79
79.00	1064	142.00	82	216.00	67	315.00	240
80.00	686	145.00	144	217.00	1509	316.00	163
81.00	836	146.00	102	221.00	773	321.00	70
82.00	175	147.00	249	222.00	185	323.00	443
83.00	274	148.00	885	223.00	448	325.00	79
84.00	150	149.00	195	224.00	2543	334.00	372
85.00	92	153.00	169	225.00	746	341.00	76
86.00	349	155.00	333	227.00	1409	346.00	69
87.00	98	156.00	419	228.00	85	354.00	200
91.00	121	159.00	68	229.00	276	355.00	100
92.00	216	160.00	150	231.00	76	365.00	710
93.00	1373	161.00	417	234.00	105	372.00	185
94.00	190	162.00	113	237.00	172	373.00	73
95.00	73	164.00	79	241.00	76	402.00	74

Data File: /chem1/nt6.i/20060803.b/tune.b/cc0803.d

Date : 03-AUG-2006 07:18

Client ID:

Instrument: nt6.i

Sample Info: CC0803

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0803.d
Spectrum: Avg. Scans 2308-2310 (13.52), Background Scan 2296
Location of Maximum: 198.00
Number of points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
96.00	77	165.00	408	242.00	296	403.00	93
98.00	1012	166.00	290	243.00	71	421.00	97
99.00	782	167.00	1192	244.00	2072	422.00	67
101.00	341	168.00	516	245.00	322	423.00	945
103.00	210	175.00	522	246.00	655	424.00	298
104.00	330	176.00	169	247.00	156	441.00	536
105.00	371	177.00	486	249.00	81	442.00	12036
107.00	2817	178.00	73	252.00	81	443.00	2433
108.00	403	179.00	990	253.00	443	444.00	115
110.00	4151	180.00	616	255.00	10391		

Data File: /chem1/nt6.i/20060803.b/tune.b/cc0803.d

Date : 03-AUG-2006 07:18

Client ID:

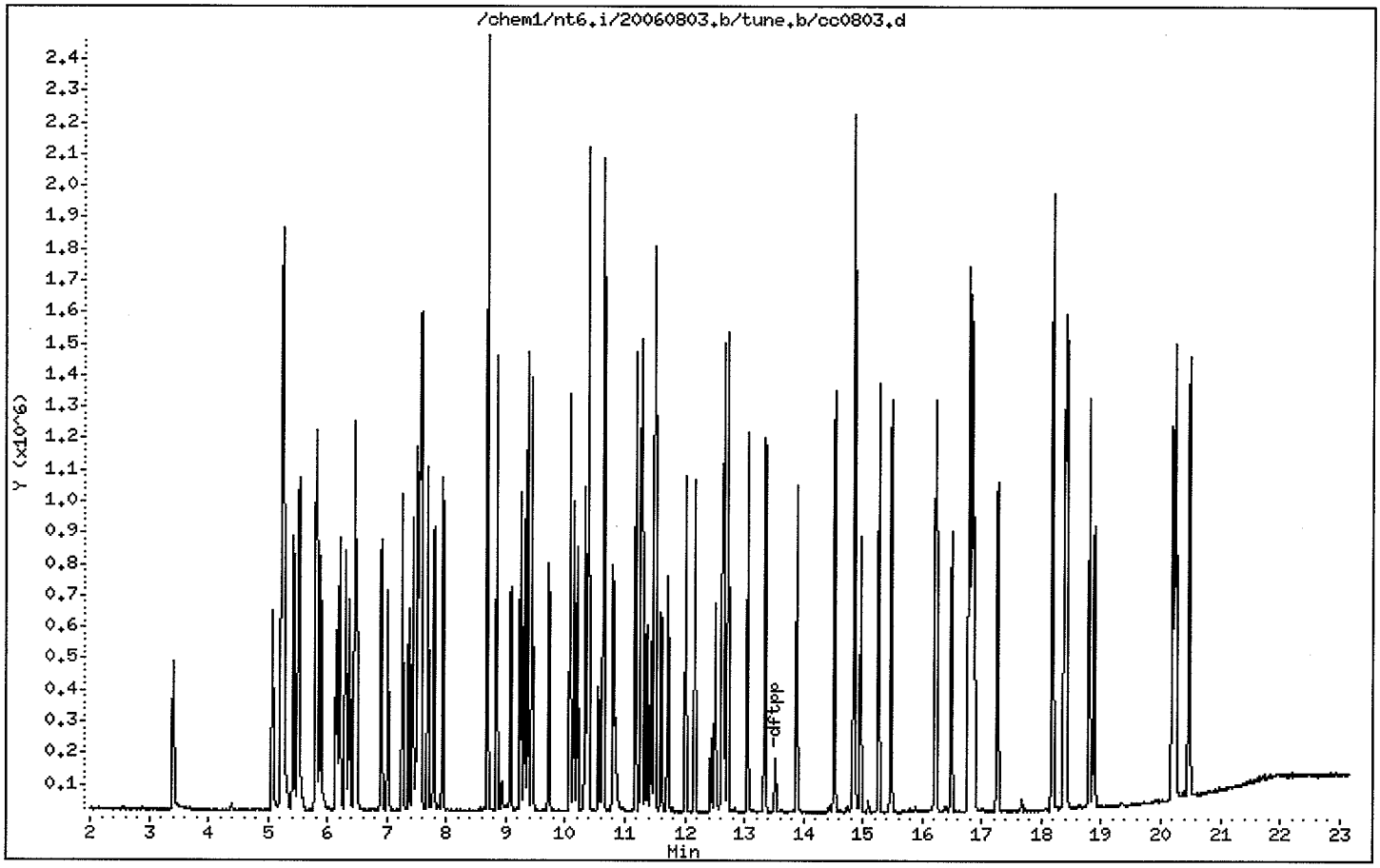
Instrument: nt6.i

Sample Info: CC0803

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

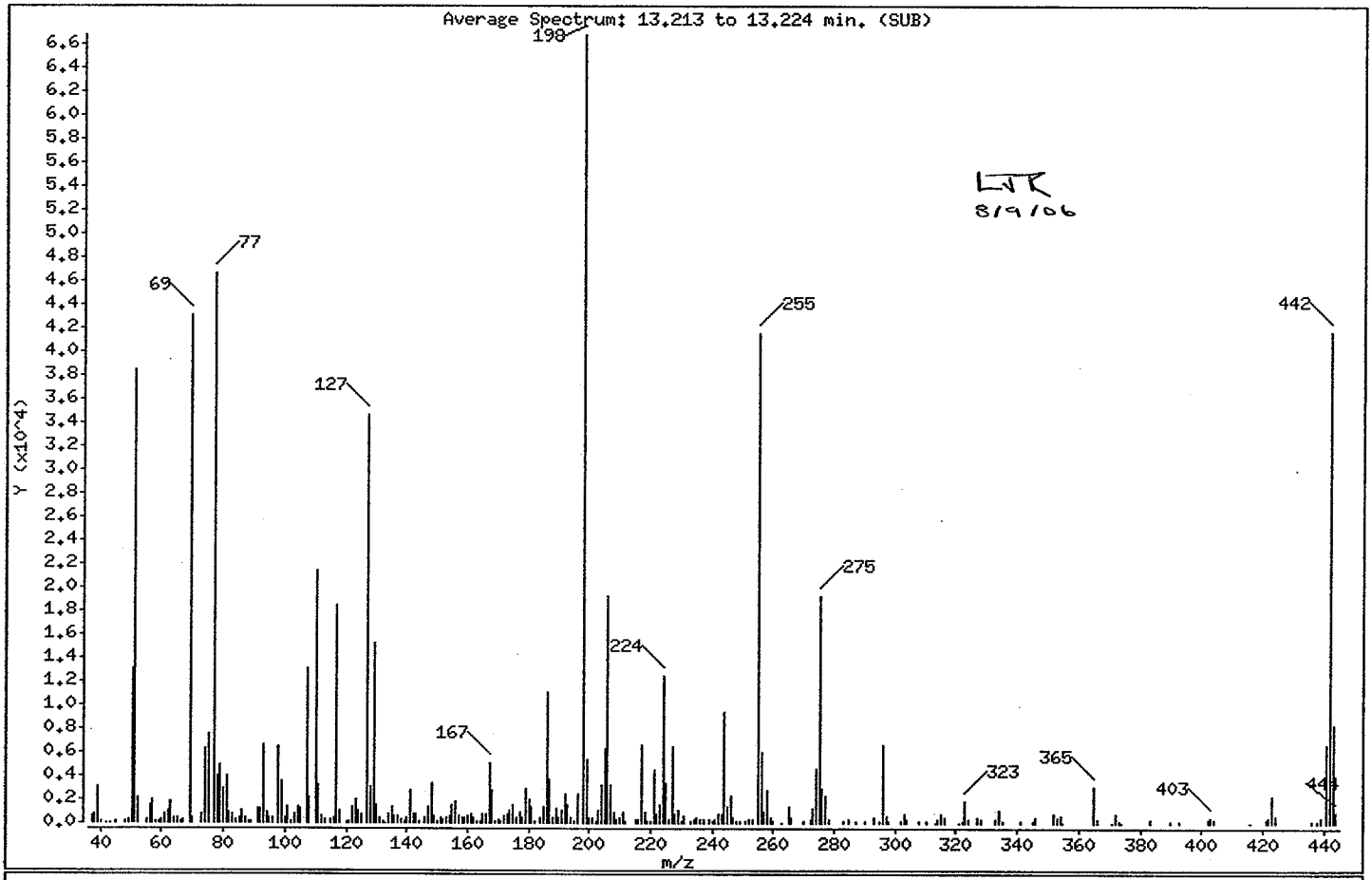
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	57.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.52
70	Less than 2.00% of mass 69	0.78 (1.22)
127	25.00 - 75.00% of mass 198	51.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.05
275	10.00 - 30.00% of mass 198	28.88
365	Greater than 0.75% of mass 198	4.54
441	Present, but less than mass 443	9.90
442	40.00 - 110.00% of mass 198	62.47
443	15.00 - 24.00% of mass 442	12.44 (19.92)

Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0808.d
Spectrum: Average Spectrum: 13.213 to 13.224 min. (SUB)
Location of Maximum: 198.00
Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	630	120.00	83	190.00	395	270.00	104
38.00	741	121.00	164	191.00	1016	272.00	295
39.00	3139	122.00	1443	192.00	2442	273.00	1182
40.00	108	123.00	2017	193.00	1508	274.00	4667
42.00	67	124.00	1004	194.00	434	275.00	19280
43.00	54	125.00	784	195.00	82	276.00	2870
45.00	170	127.00	34568	196.00	2511	277.00	2286
48.00	121	128.00	3139	198.00	66768	278.00	369
49.00	317	129.00	15259	199.00	5374	283.00	201
50.00	13043	130.00	1602	200.00	406	285.00	249
51.00	38520	131.00	418	201.00	398	287.00	80
52.00	2113	132.00	100	202.00	152	290.00	136
55.00	231	133.00	70	203.00	1037	293.00	425
56.00	1514	134.00	750	204.00	3266	295.00	164
57.00	1924	135.00	1380	205.00	6270	296.00	6574
58.00	189	136.00	552	206.00	19168	297.00	681
59.00	101	137.00	650	207.00	3296	298.00	79
60.00	349	138.00	300	208.00	946	302.00	81
61.00	751	139.00	161	209.00	291	303.00	795
62.00	1104	140.00	406	210.00	533	304.00	291
63.00	1788	141.00	2748	211.00	937	308.00	170
64.00	473	142.00	712	212.00	194	310.00	91
65.00	456	143.00	729	215.00	305	313.00	70
66.00	84	144.00	142	216.00	289	314.00	231
67.00	291	146.00	403	217.00	6559	315.00	735
69.00	43080	147.00	1330	218.00	916	316.00	514
70.00	524	148.00	3365	219.00	163	321.00	76
73.00	766	149.00	661	220.00	110	322.00	121
74.00	6260	150.00	97	221.00	4471	323.00	1837
75.00	7477	151.00	517	222.00	697	324.00	271
77.00	46624	152.00	328	223.00	1473	327.00	503
78.00	3956	153.00	533	224.00	12451	328.00	365
79.00	4958	154.00	577	225.00	3374	333.00	293
80.00	2898	155.00	1524	226.00	308	334.00	1077
81.00	4011	156.00	1863	227.00	6407	335.00	126

Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0808.d
Spectrum: Average Spectrum: 13.213 to 13.224 min. (SUB)
Location of Maximum: 198.00
Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	943	157.00	668	228.00	763	341.00	161
83.00	756	158.00	471	229.00	1136	345.00	91
84.00	334	159.00	393	230.00	227	346.00	409
85.00	505	160.00	608	231.00	573	352.00	746
86.00	1101	161.00	752	233.00	146	353.00	447
87.00	455	162.00	455	234.00	348	354.00	615
88.00	212	163.00	122	235.00	513	355.00	76
89.00	227	164.00	195	236.00	237	365.00	3033
91.00	1236	165.00	840	237.00	243	366.00	360
92.00	1294	166.00	701	239.00	354	371.00	69
93.00	6673	167.00	5046	240.00	147	372.00	814
94.00	927	168.00	2717	241.00	316	373.00	108
95.00	503	169.00	217	242.00	788	374.00	74
96.00	426	170.00	246	243.00	727	383.00	289
98.00	6400	171.00	230	244.00	9359	390.00	90
99.00	3596	172.00	544	245.00	1415	393.00	91
100.00	405	173.00	766	246.00	2343	402.00	283
101.00	1379	174.00	1070	247.00	439	403.00	417
102.00	201	175.00	1530	248.00	80	404.00	250
103.00	732	176.00	511	249.00	140	416.00	68
104.00	1332	177.00	957	251.00	81	421.00	351
105.00	1224	178.00	436	252.00	323	422.00	476
107.00	13116	179.00	2944	253.00	345	423.00	2318
108.00	2186	180.00	2028	255.00	41520	424.00	605
110.00	21448	181.00	1336	256.00	5968	436.00	83
111.00	3268	182.00	93	257.00	889	438.00	167
112.00	616	184.00	442	258.00	2802	439.00	448
113.00	269	185.00	1373	259.00	489	441.00	6613
115.00	369	186.00	11150	260.00	105	442.00	41712
116.00	468	187.00	3626	263.00	75	443.00	8308
117.00	18504	188.00	474	265.00	1388	444.00	889
118.00	1075	189.00	1284	266.00	451		

Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

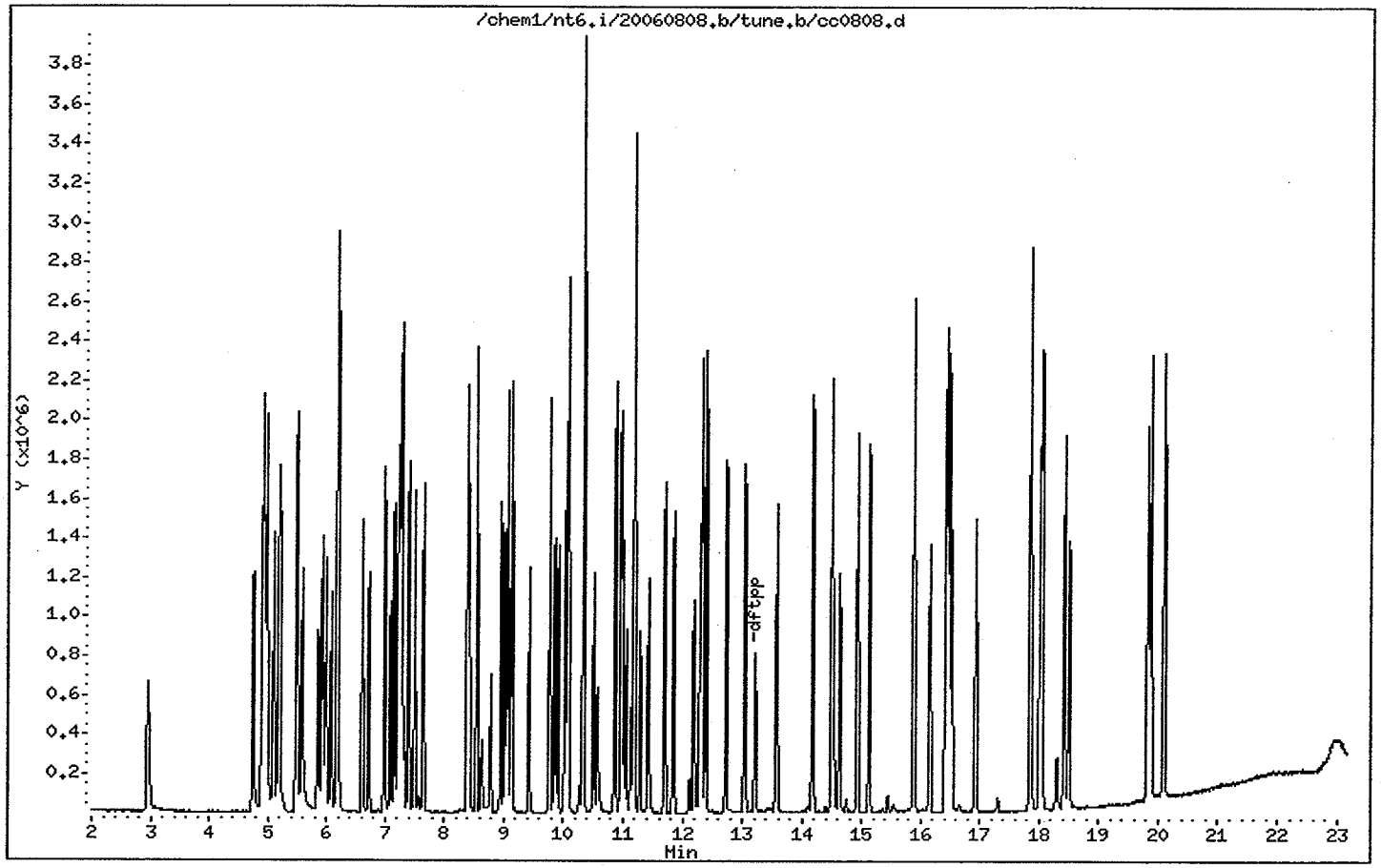
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-072706**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-072706
LIMS ID: 06-12938
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/27/06
Date Analyzed: 08/01/06 13:29
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	**Di-n-Butylphthalate**	**20**	**25**
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**21**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	90.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060801.b/jq33mb.d
Lab Smp Id: JQ33MBS1 Client Smp ID: JQ33MBS1
Inj Date : 01-AUG-2006 13:29
Operator : LJR Inst ID: nt6.i
Smp Info : JQ33MBS1
Misc Info : 06-12938
Comment : 1ul Injection
Method : /chem1/nt6.i/20060801.b/SW846.m
Meth Date : 01-Aug-2006 15:45 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 8/3/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	3.505	3.485	(0.631)	328985	23.8432	476.9
$	2 Phenol-d5	99	5.305	5.307	(0.955)	431555	25.8131	516.3
	3 Phenol	94	5.321	5.323	(0.958)	12448	0.59753 LJR S	11.95(M)
$	5 2-Chlorophenol-d4	132	5.273	5.275	(0.949)	330892	23.3418	466.8
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	5.556	5.558	(1.000)	186988	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	5.850	5.852	(1.053)	124003	13.5698	271.4
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.512	6.520	(0.858)	274278	15.0912	301.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.592	7.599	(1.000)	671366	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.413	9.421	(0.906)	431533	15.1637	303.3
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.386	10.393	(1.000)	381137	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.652	11.659	(1.122)	83790	22.8626	457.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.672	12.679	(1.000)	580853	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	13.933	13.940	(1.099)	46595	1.24881	24.90
64	Fluoranthene	202	14.574	14.586	(1.150)	21342	0.55981	11.20
65	Pyrene	202	14.900	14.912	(0.884)	16863	0.52687	10.54
$ 66	Terphenyl-d14	244	15.322	15.329	(0.909)	452641	22.4952	449.9
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	Compound Not Detected.					
* 69	Chrysene-d12	240	16.855	16.862	(1.000)	379965	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	Compound Not Detected.					
72	bis(2-Ethylhexyl)phthalate	149	17.309	17.316	(0.950)	13741	1.04797	20.96
* 134	Di-n-octylphthalate-d4	153	18.228	18.235	(1.000)	519306	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	Compound Not Detected.					
75	Benzo(k)fluoranthene	252	Compound Not Detected.					
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	18.938	18.946	(1.000)	287496	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq33mb.d
Lab Smp Id: JQ33MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060801.b/SW846.m
Misc Info: 06-12938

Calibration Date: 01-AUG-2006
Calibration Time: 11:57
Client Smp ID: JQ33MBS1
Level: LOW
Sample Type: Solid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	203506	101753	407012	186988	-8.12
27 Naphthalene-d8	730969	365484	1461938	671366	-8.15
42 Acenaphthene-d10	404762	202381	809524	381137	-5.84
59 Phenanthrene-d10	594244	297122	1188488	580853	-2.25
69 Chrysene-d12	406863	203432	813726	379965	-6.61
134 Di-n-octylphthala	618730	309365	1237460	519306	-16.07
77 Perylene-d12	432016	216008	864032	287496	-33.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.56	5.06	6.06	5.56	-0.04
27 Naphthalene-d8	7.60	7.10	8.10	7.59	-0.10
42 Acenaphthene-d10	10.39	9.89	10.89	10.39	-0.07
59 Phenanthrene-d10	12.68	12.18	13.18	12.67	-0.06
69 Chrysene-d12	16.86	16.36	17.36	16.85	-0.04
134 Di-n-octylphthala	18.24	17.74	18.74	18.23	-0.04
77 Perylene-d12	18.95	18.45	19.45	18.94	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

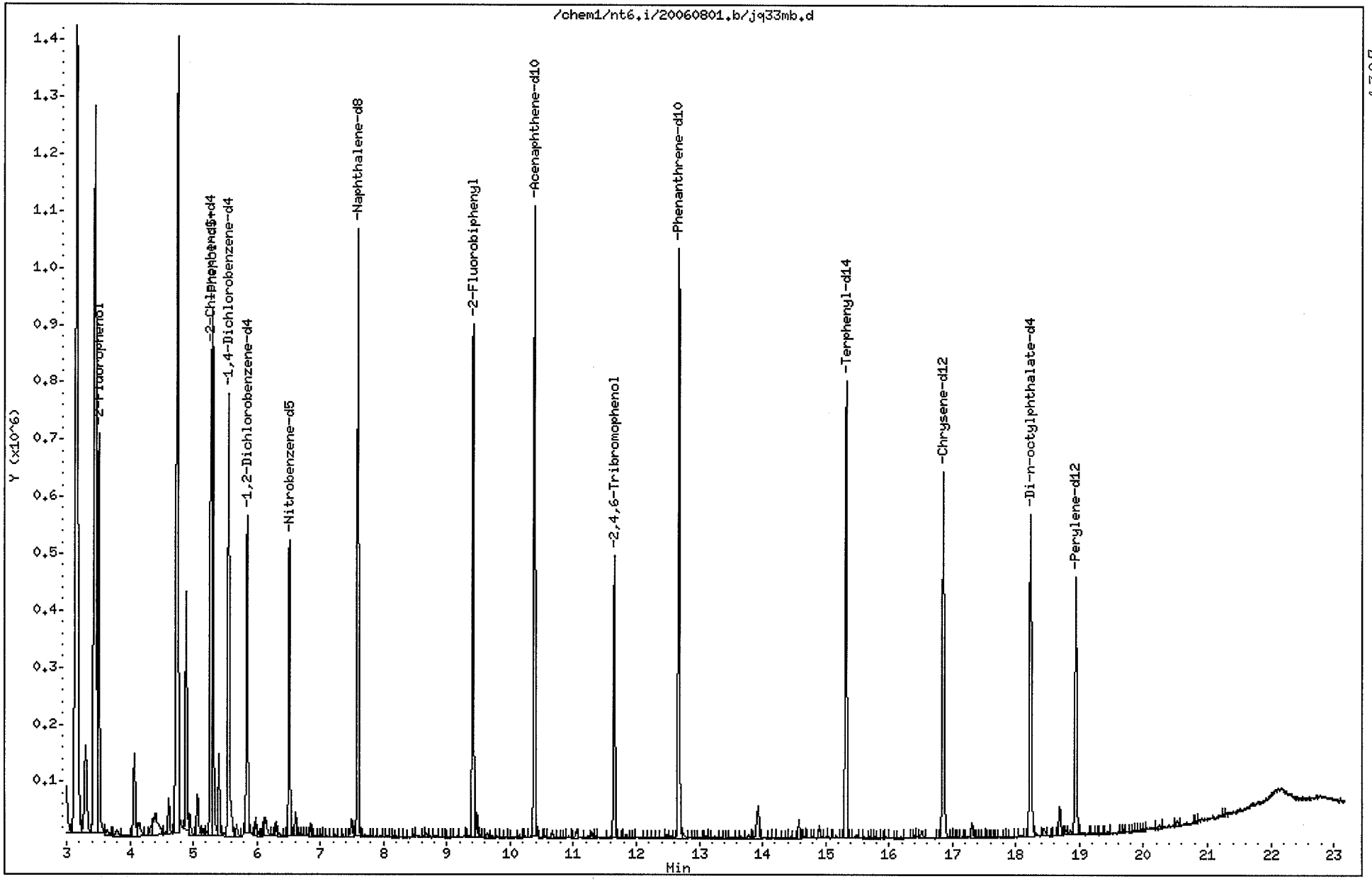
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ33MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20060801.b/SW846.m
Misc Info: 06-12938

Client SDG: JQ33
Fraction: SV
Client Smp ID: JQ33MBS1
Operator: LJR
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	476.9	63.58	42-87
$ 2 Phenol-d5	750.0	516.3	68.83	47-87
$ 5 2-Chlorophenol-d4	750.0	466.8	62.24	47-86
$ 10 1,2-Dichlorobenzen	500.0	271.4	54.28	43-82
$ 18 Nitrobenzene-d5	500.0	301.8	60.36	46-87
$ 36 2-Fluorobiphenyl	500.0	303.3	60.65	46-88
$ 55 2,4,6-Tribromophen	750.0	457.3	60.97	40-97
$ 66 Terphenyl-d14	500.0	449.9	89.98	37-114

Data File: /chem1/nt6.i/20060801.b/jq33mb.d
Date : 01-AUG-2006 13:29
Client ID: JQ33MBS1
Sample Info: JQ33MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



1307

Data File: /chem1/nt6.i/20060801.b/jq33mb.d

Date : 01-AUG-2006 13:29

Client ID: JQ33MBS1

Instrument: nt6.i

Sample Info: JQ33MBS1

Volume Injected (uL): 1.0

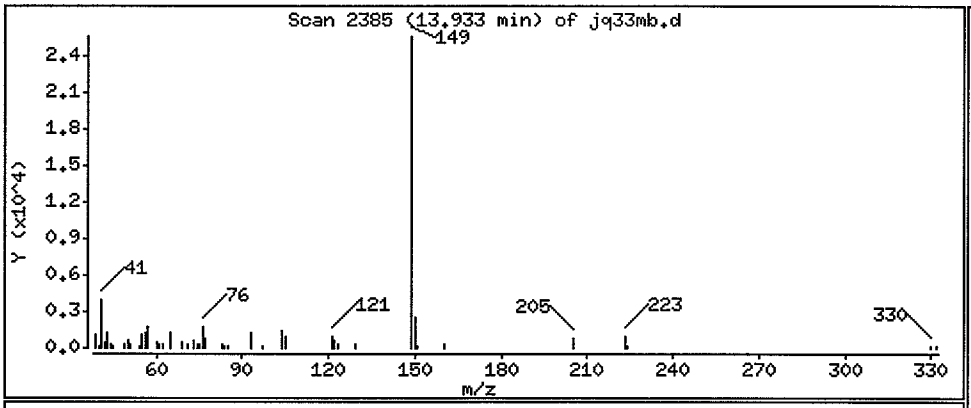
Operator: LJR

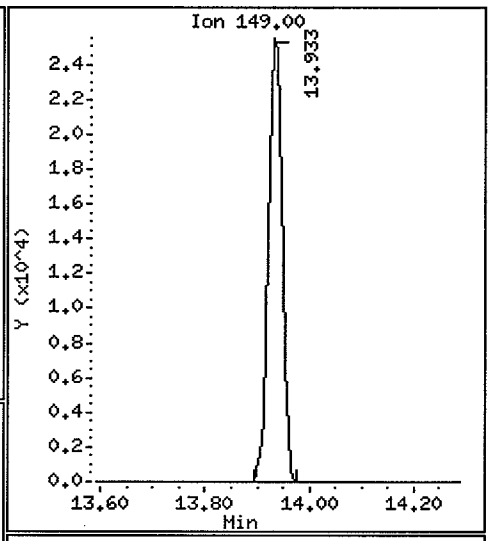
Column phase: ZB-5

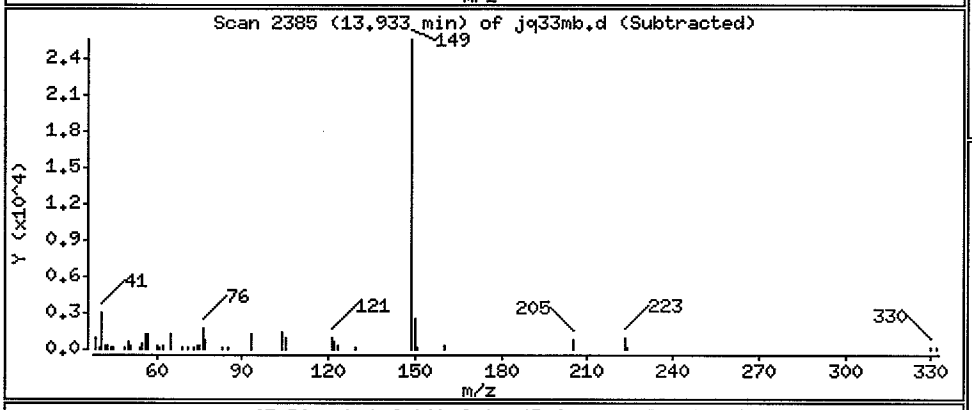
Column diameter: 0.32

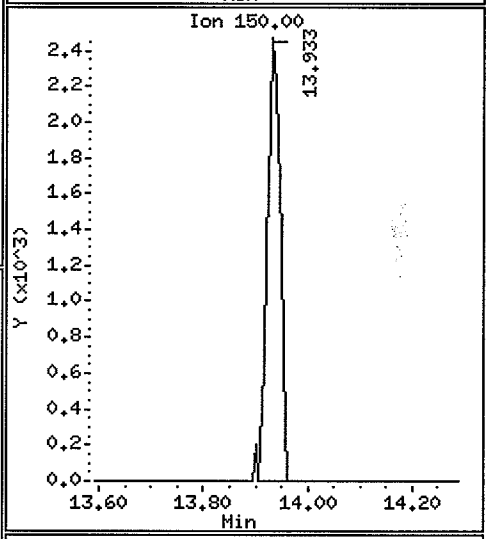
63 Di-n-butylphthalate

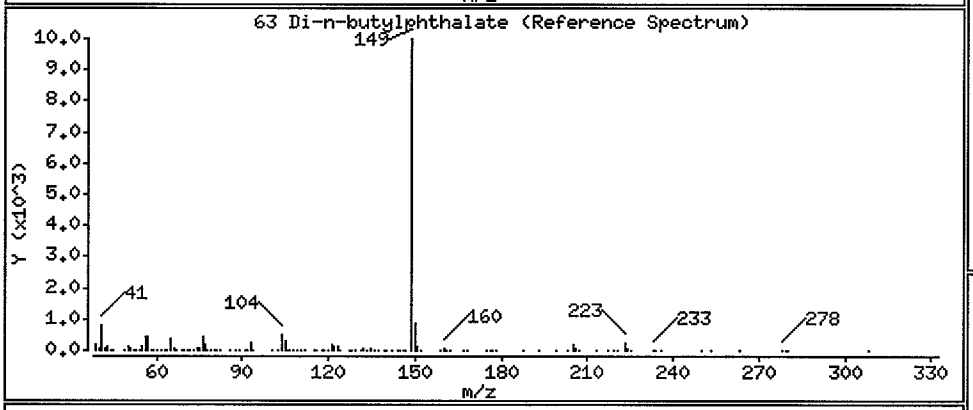
Concentration: 24.90 ug/kg

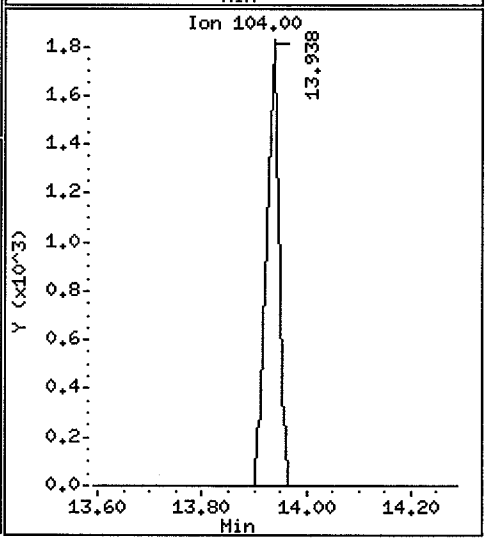


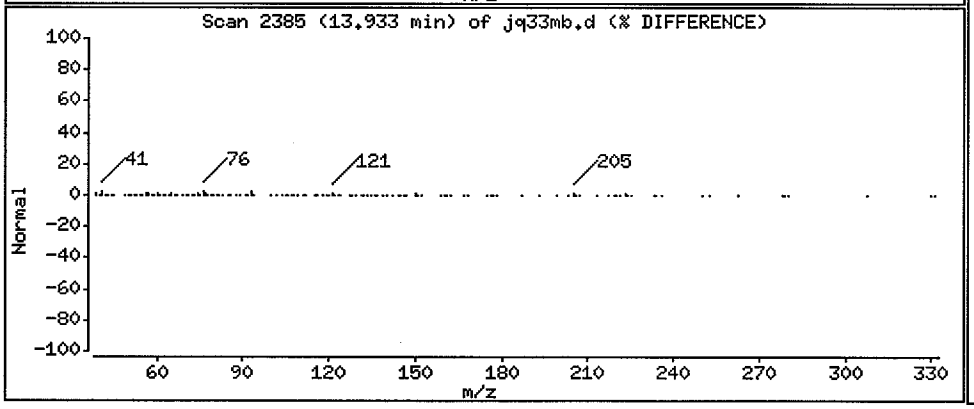












Data File: /chem1/nt6.i/20060801.b/jq33mb.d

Date : 01-AUG-2006 13:29

Client ID: JQ33MBS1

Instrument: nt6.i

Sample Info: JQ33MBS1

Volume Injected (uL): 1.0

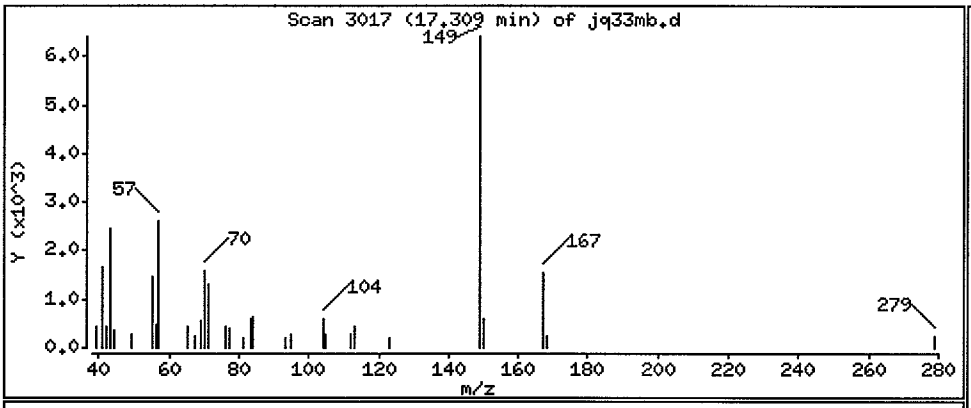
Operator: LJR

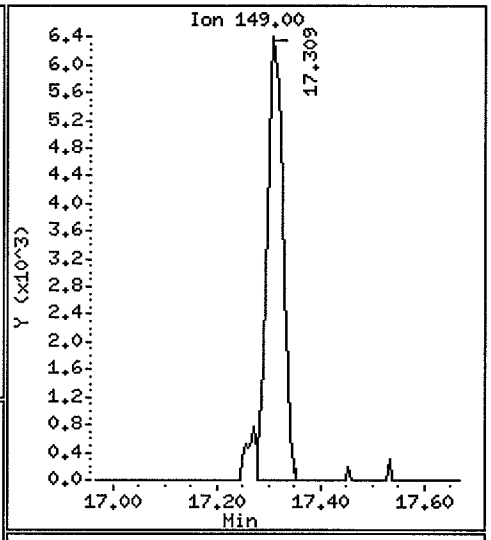
Column phase: ZB-5

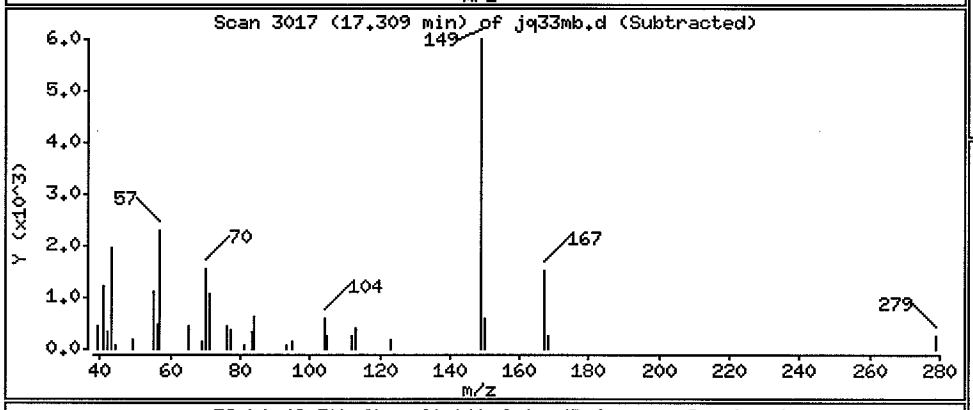
Column diameter: 0.32

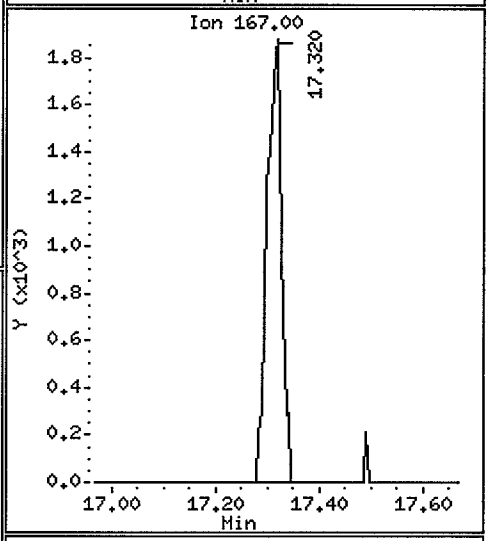
72 bis(2-Ethylhexyl)phthalate

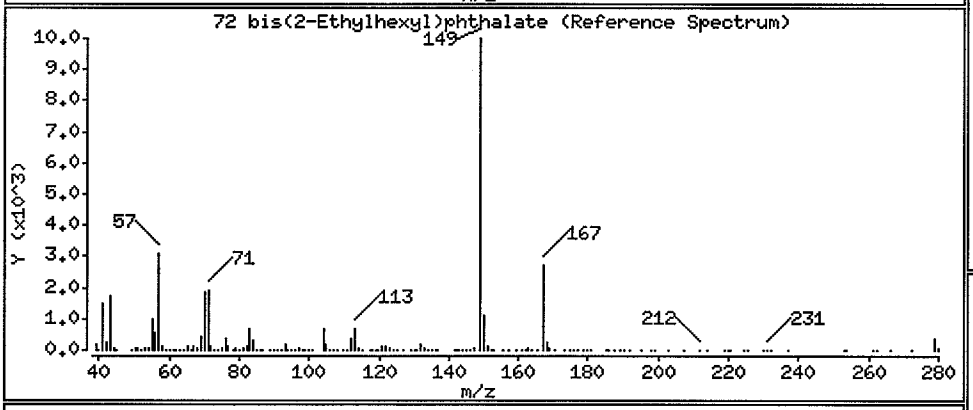
Concentration: 20.96 ug/kg

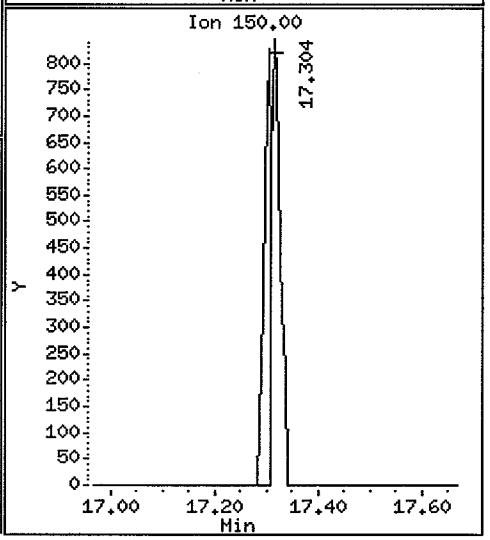


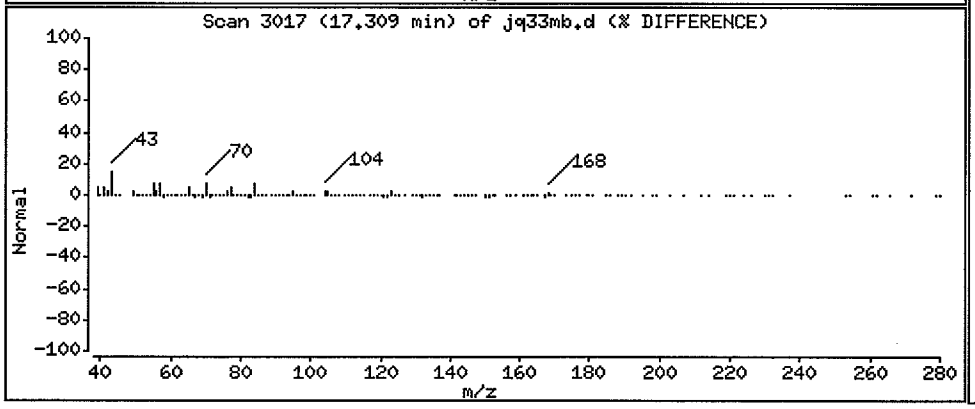












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-G**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JQ33P
LIMS ID: 06-12938
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/03/06 13:57
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 19.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 44.6%
pH: 7.0

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	51	< 51 U
84-66-2	Diethylphthalate	51	< 51 U
84-74-2	**Di-n-Butylphthalate**	**51**	**120 B**
85-68-7	Butylbenzylphthalate	51	< 51 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**51**	**240 B**
117-84-0	Di-n-Octyl phthalate	51	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	59.2%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060803.b/jq33pms.d
Lab Smp Id: JQ33PMS Client Smp ID: T4-S3-01-G MS
Inj Date : 03-AUG-2006 13:57
Operator : LJR Inst ID: nt6.i
Smp Info : JQ33PMS
Misc Info : 06-12938
Comment : 1ul Injection
Method : /chem1/nt6.i/20060803.b/SW846.m
Meth Date : 10-Aug-2006 12:06 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 8/10/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	35.20000	Weight of sample extracted (g)
M	44.60000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	3.469	3.405	(0.630)	163424	16.3409	838.0(M)
$	2 Phenol-d5	99	5.274	5.248	(0.958)	224315	18.5112	949.3(M)
	3 Phenol	94	5.296	5.269	(0.962)	259160	17.1633	880.1
$	5 2-Chlorophenol-d4	132	5.232	5.216	(0.950)	183047	17.8149	913.5(M)
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	5.258	5.242	(0.955)	178041	17.1264	878.8(M)
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	5.504	5.494	(1.000)	135532	20.0000	(M)
	9 1,4-Dichlorobenzene	146	5.531	5.520	(1.005)	121630	10.4802	537.4(RM)
$	10 1,2-Dichlorobenzene-d4	152	5.803	5.798	(1.054)	67304	10.1614	521.1(M)
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	6.220	6.199	(1.130)	14698	1.47940	75.86(R)
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	6.375	6.364	(1.158)	98196	10.3269	529.6
	15 4-Methylphenol	108	6.471	6.450	(1.176)	29028	2.83304	145.3(R)
$	18 Nitrobenzene-d5	82	6.471	6.466	(0.857)	141553	11.0196	565.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	7.267	7.256	(0.962)	12689	1.17248	60.12(R)
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	7.540	7.577	(0.999)	26237	4.59327	235.5(RM)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	7.518	7.513	(0.996)	112665	12.3613	633.9
*	27 Naphthalene-d8	136	7.550	7.545	(1.000)	474510	20.0000	
	28 Naphthalene	128	7.582	7.577	(1.004)	493608	17.1116	877.5
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	8.704	8.688	(1.153)	167937	18.8108	964.6
	32 2-Methylnaphthalene	141	8.699	8.688	(1.152)	302167	19.3675	993.2
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.372	9.367	(0.906)	261843	11.5350	591.5
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	10.093	10.082	(0.975)	36216	1.17455	60.23(RM)
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.349	10.334	(1.000)	304015	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	10.414	10.382	(1.006)	3206462	164.248 E	8423(R)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	10.659	10.643	(1.030)	548102	20.4060	1046
	47 4-Nitrophenol	109	10.857	10.830	(1.049)	83412	24.8584	1275(RM)
	48 2,4-Dinitrotoluene	165	10.830	10.798	(1.046)	72058	11.7725	603.7(M)
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	11.199	11.178	(1.082)	1286137	59.0281	3027(R)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.616	11.605	(1.122)	82448	28.2032	1446
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	12.572	12.508	(0.992)	73424	12.3879	635.2(M)
*	59 Phenanthrene-d10	188	12.679	12.620	(1.000)	739748	20.0000	(M)
	60 Phenanthrene	178	12.732	12.652	(1.004)	15974167	324.376 E	16630(R)
	61 Anthracene	178	12.780	12.721	(1.008)	3973391	80.3703 E	4121(R)
	62 Carbazole	167	13.101	13.058	(1.033)	3588997	90.1804 E	4624(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	13.918	13.886	(1.098)	108621	2.27856 B	116.8 (RM)
	64 Fluoranthene	202	14.709	14.522	(1.160)	43715205	900.368 E	46170 (RM)
	65 Pyrene	202	15.051	14.848	(0.877)	46567448	692.813 E	35530 (RM)
$	66 Terphenyl-d14	244	15.350	15.264	(0.895)	624296	14.7238	757.6 (H)
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	17.043	16.782	(0.993)	44010881	730.393 E	37450 (RM)
*	69 Chrysene-d12	240	17.075	16.798	(1.000)	797955	20.0000	(M)
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	17.075	16.840	(1.000)	32477371	542.385 E	27810 (RM)
	72 bis(2-Ethylhexyl)phthalate	149	17.353	17.257	(0.951)	113543	4.62204 B	237.0 (RM)
*	134 Di-n-octylphthalate-d4	153	18.256	18.181	(1.000)	972926	20.0000	(M)
	73 Di-n-octylphthalate	149	18.277	18.181	(1.001)	550394	11.8440	607.4 (RM)
	74 Benzo(b)fluoranthene	252	18.689	18.384	(0.975)	32300695	1988.76 E	102000 (R)
	75 Benzo(k)fluoranthene	252	18.721	18.416	(0.977)	17519078	1043.12 E	53490 (RM)
	76 Benzo(a)pyrene	252	19.127	18.801	(0.998)	43034432	2752.91 E	141200 (RM)
*	77 Perylene-d12	264	19.164	18.881	(1.000)	247388	20.0000	(M)
	78 Indeno(1,2,3-cd)pyrene	276	20.478	20.200	(1.069)	9823608	516.554 E	26490 (RM)
	79 Dibenzo(a,h)anthracene	278	20.483	20.249	(1.069)	4211715	225.456 E	11560 (RMH)
	80 Benzo(g,h,i)perylene	276	20.756	20.484	(1.083)	8019674	402.718 E	20650 (RM)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	8.854	8.848	(1.173)	119520	7.32832	375.8
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq33pms.d
Lab Smp Id: JQ33PMS
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060803.b/SW846.m
Misc Info: 06-12938

Calibration Date: 03-AUG-2006
Calibration Time: 07:18
Client Smp ID: T4-S3-01-G MS
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	174091	87046	348182	135532	-22.15
27 Naphthalene-d8	604851	302426	1209702	474510	-21.55
42 Acenaphthene-d10	360439	180220	720878	304015	-15.65
59 Phenanthrene-d10	578581	289290	1157162	739748	27.86
69 Chrysene-d12	569907	284954	1139814	797955	40.01
134 Di-n-octylphthala	833015	416508	1666030	972926	16.80
77 Perylene-d12	596448	298224	1192896	247388	-58.52 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.49	4.99	5.99	5.50	0.19
27 Naphthalene-d8	7.54	7.04	8.04	7.55	0.07
42 Acenaphthene-d10	10.33	9.83	10.83	10.35	0.15
59 Phenanthrene-d10	12.62	12.12	13.12	12.68	0.46
69 Chrysene-d12	16.80	16.30	17.30	17.08	1.65
134 Di-n-octylphthala	18.18	17.68	18.68	18.26	0.41
77 Perylene-d12	18.88	18.38	19.38	19.16	1.50

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ33PMS
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060803.b/SW846.m
Misc Info: 06-12938

Client SDG: JQ33
Fraction: SV
Client Smp ID: T4-S3-01-G MS
Operator: LJR
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	1282	880.1	68.65	26-78
4 Bis(2-Chloroethyl	1282	0.000	*	68-113
6 2-Chlorophenol	1282	878.8	68.55	48-111
7 1,3-Dichlorobenze	1282	0.000	*	42-93
9 1,4-Dichlorobenzen	1282	537.4	41.92*	44-88
11 Benzyl alcohol	1282	0.000	*	52-115
12 1,2-Dichlorobenze	1282	0.000	*	44-97
13 2-Methylphenol	1282	75.86	5.92*	63-113
14 2,2'-oxybis(1-Chl	1282	0.000	*	53-121
15 4-Methylphenol	2564	145.3	5.67*	55-119
16 N-Nitroso-di-n-pro	1282	529.6	41.31	40-120
17 Hexachloroethane	1282	0.000	*	36-91
19 Nitrobenzene	1282	0.000	*	66-120
20 Isophorone	1282	0.000	*	62-135
21 2-Nitrophenol	1282	0.000	*	60-125
22 2,4-Dimethylphenol	1282	60.12	4.69*	50-104
23 Bis(2-Chloroethox	1282	0.000	*	61-129
24 Benzoic acid	1282	235.5	18.37*	20-99
25 2,4-Dichlorophenol	1282	0.000	*	62-127
26 1,2,4-Trichloroben	1282	633.9	49.45	45-94
28 Naphthalene	1282	877.5	68.45	53-111
29 4-Chloroaniline	3077	0.000	*	34-87
30 Hexachlorobutadie	1282	0.000	*	37-96
31 4-Chloro-3-methylp	1282	964.6	75.24	53-121
32 2-Methylnaphthalen	1282	993.2	77.47	52-114
33 Hexachlorocyclope	1282	0.000	*	10-104
34 2,4,6-Trichloroph	1282	0.000	*	50-115
35 2,4,5-Trichloroph	1282	0.000	*	61-122
37 2-Chloronaphthale	1282	0.000	*	54-118
38 2-Nitroaniline	1282	0.000	*	55-137
39 Dimethylphthalate	1282	0.000	*	57-138
40 Acenaphthylene	1282	60.23	4.70*	56-125
41 2,6-Dinitrotoluene	1282	0.000	*	59-140

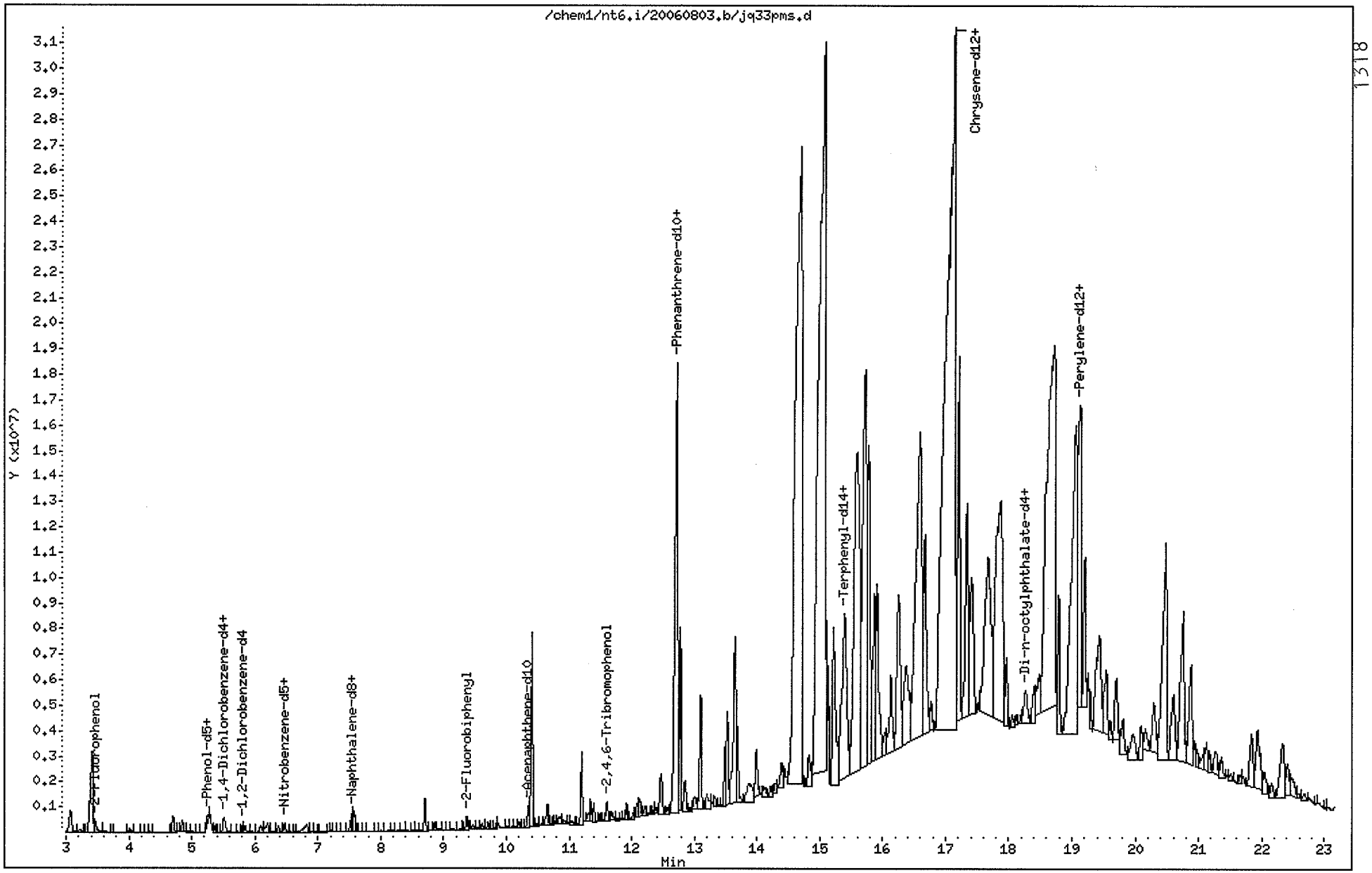
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	3282	0.000	*	60-99
44 Acenaphthene	1282	8423	656.99*	47-114
45 2,4-Dinitrophenol	1282	0.000	*	10-227
46 Dibenzofuran	1282	1046	81.62	54-126
47 4-Nitrophenol	1282	1275	99.43*	14-96
48 2,4-Dinitrotoluene	1282	603.7	47.09	45-128
49 Fluorene	1282	3027	236.11*	52-139
50 Diethylphthalate	1282	0.000	*	59-143
51 4-Chlorophenyl-ph	1282	0.000	*	50-141
52 4-Nitroaniline	1282	0.000	*	47-137
53 4,6-Dinitro-2-met	1282	0.000	*	10-182
54 N-Nitrosodiphenyl	1282	0.000	*	56-142
56 4-Bromophenyl-phe	1282	0.000	*	66-127
57 Hexachlorobenzene	1282	0.000	*	66-126
58 Pentachlorophenol	1282	635.2	49.55	42-125
60 Phenanthrene	1282	16630	1297.50*	58-135
61 Anthracene	1282	4121	321.48*	59-132
62 Carbazole	1282	4624	360.72*	57-144
63 Di-n-butylphthalat	1282	116.8	9.11*	59-151
64 Fluoranthene	1282	46170	3601.47*	56-145
65 Pyrene	1282	35530	2771.25*	44-130
67 Butylbenzylphthal	1282	0.000	*	49-156
68 Benzo(a)anthracene	1282	37450	2921.57*	61-137
70 3,3'-Dichlorobenz	3282	0.000	*	27-110
71 Chrysene	1282	27810	2169.54*	59-134
72 bis(2-Ethylhexyl)p	1282	237.0	18.49*	50-149
73 Di-n-octylphthalat	1282	607.4	47.38*	68-124
74 Benzo(b)fluoranthe	1282	102000	7955.05*	58-141
75 Benzo(k)fluoranthe	1282	53490	4172.50*	50-148
76 Benzo(a)pyrene	1282	141200	11011.65*	60-132
78 Indeno(1,2,3-cd)py	1282	26490	2066.21*	43-156
79 Dibenzo(a,h)anthra	1282	11560	901.82*	57-155
80 Benzo(g,h,i)peryle	1282	20650	1610.87*	48-153

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1923	838.0	43.58	22-91
$ 2 Phenol-d5	1923	949.3	49.36	26-99
$ 5 2-Chlorophenol-d4	1923	913.5	47.51	29-96
$ 10 1,2-Dichlorobenzen	1282	521.1	40.65	24-87
$ 18 Nitrobenzene-d5	1282	565.1	44.08	27-101
$ 36 2-Fluorobiphenyl	1282	591.5	46.14	30-100
$ 55 2,4,6-Tribromophen	1923	1446	75.21	20-114

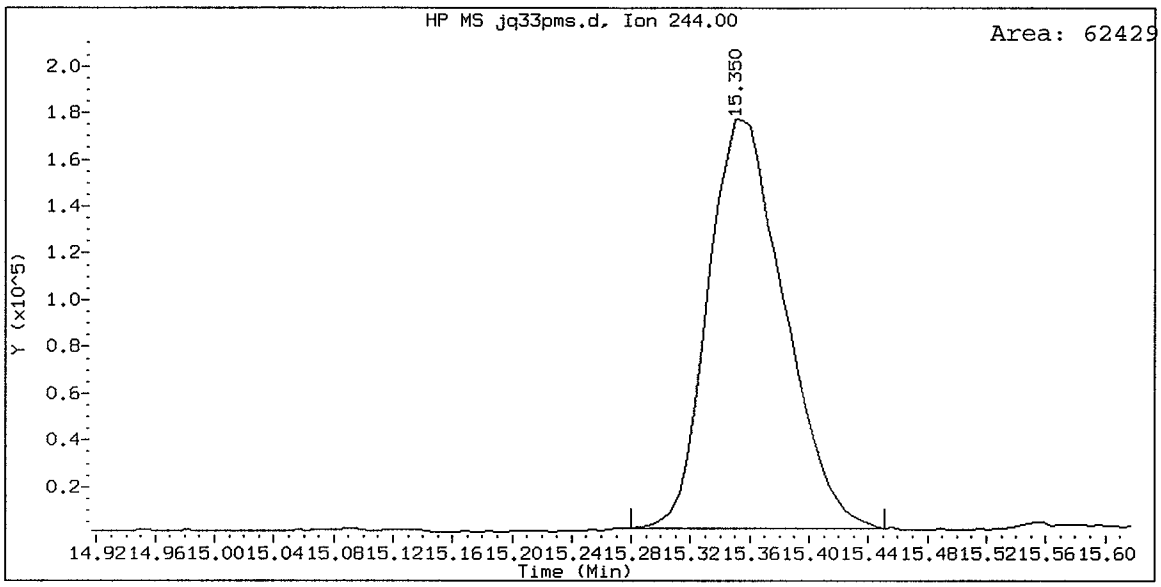
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	1282	757.6	59.10	12-120

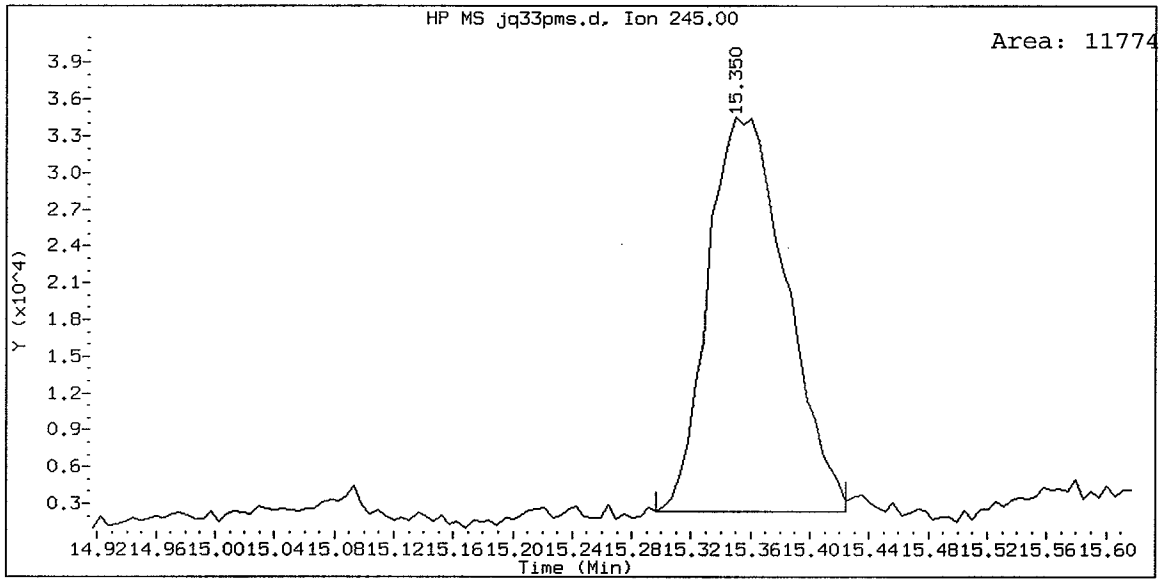
Data File: /chem1/nt6.i/20060803.b/jq33pms.d
Date : 03-AUG-2006 13:57
Client ID: T4-S3-01-G MS
Sample Info: JQ33PMS
Volume Injected (uL): 1.0
Column phase: ZB-5

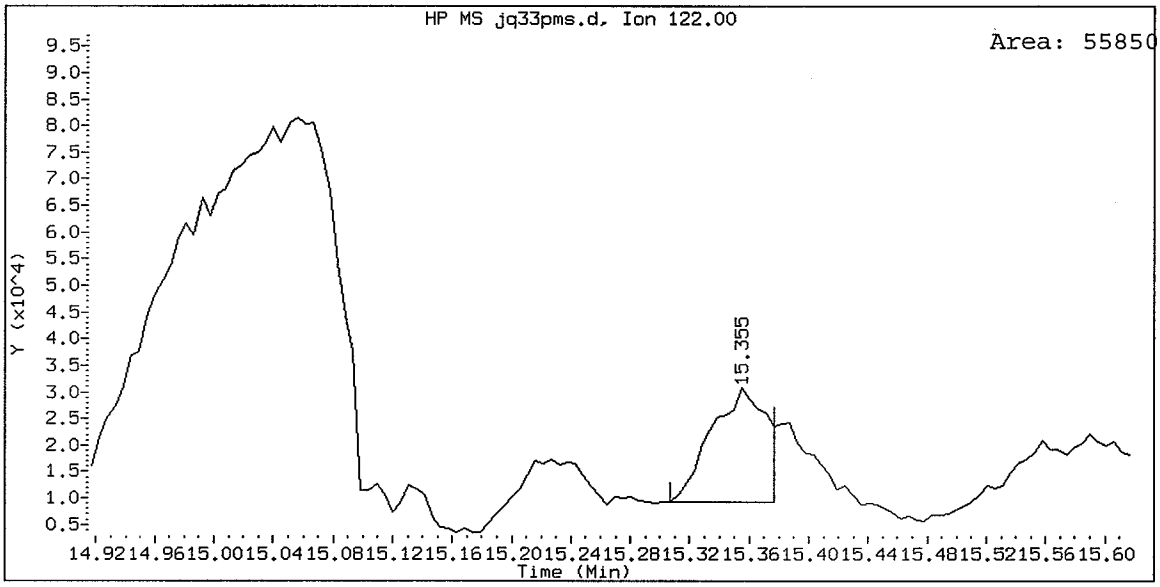
Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



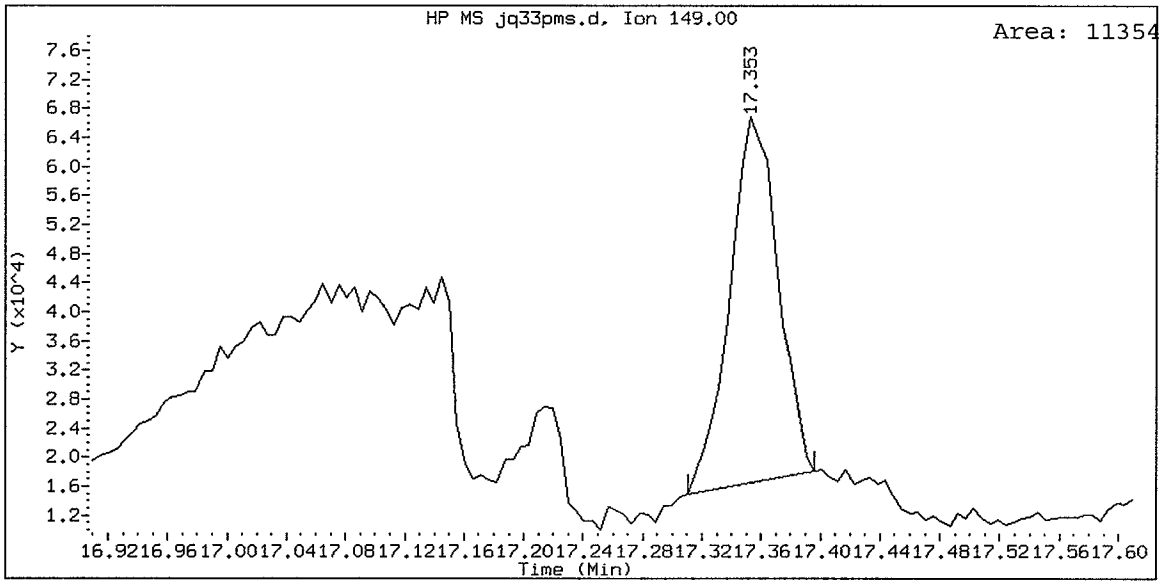
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Terphenyl-d14 Amount: 14.77

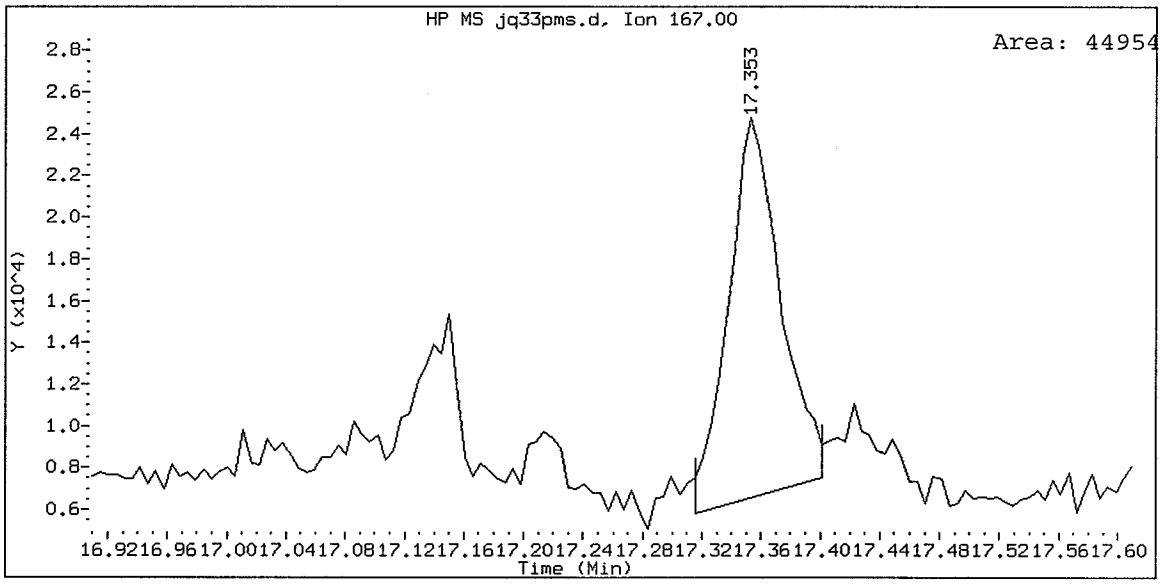


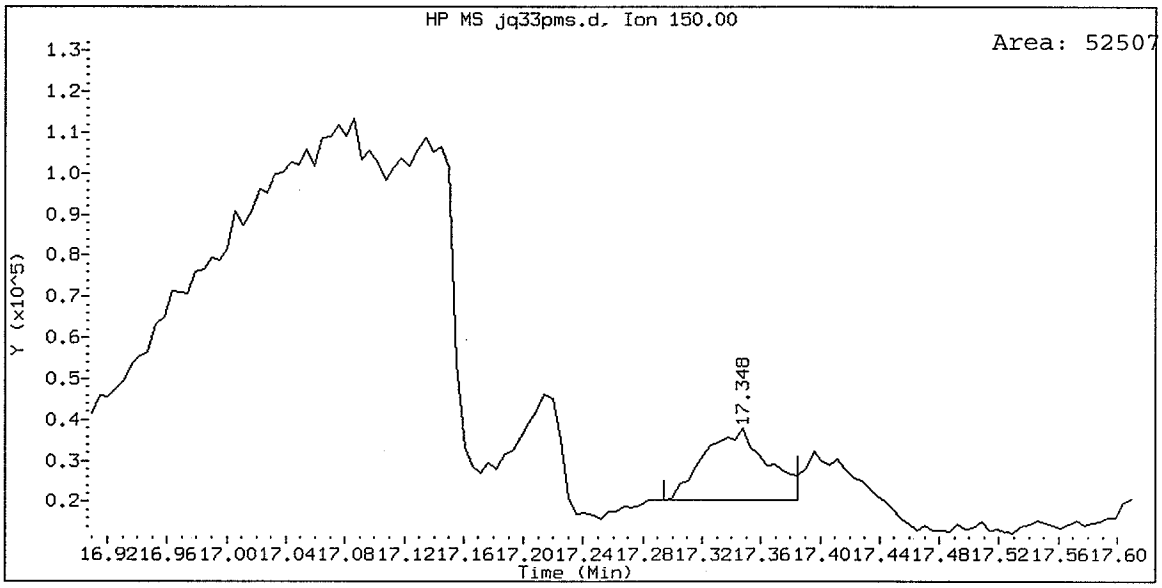




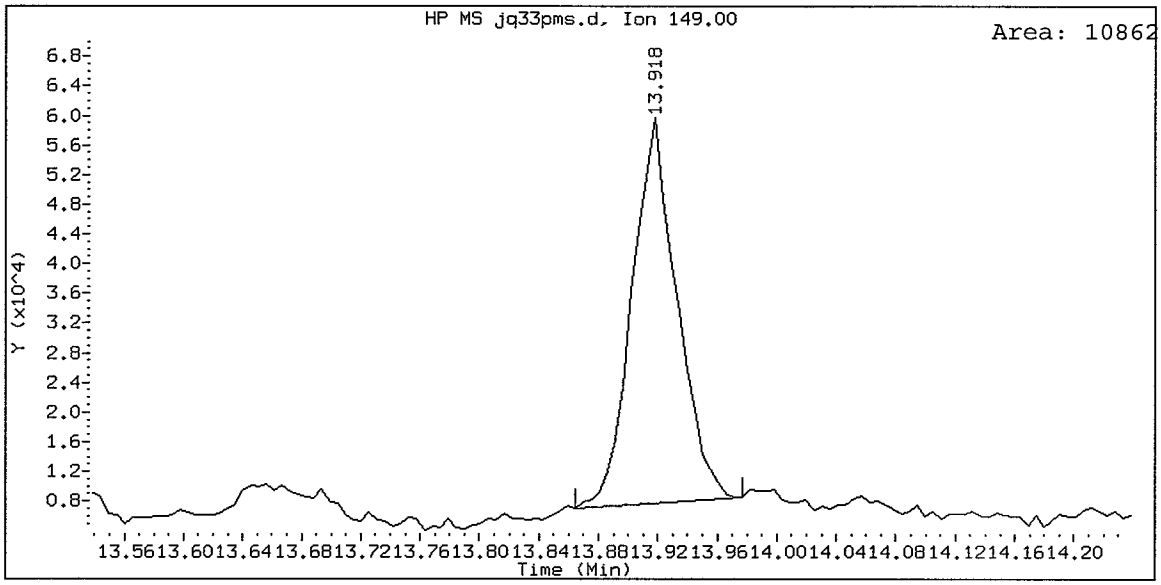
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
bis(2-Ethylhexyl)phthalate Amount: 4.62

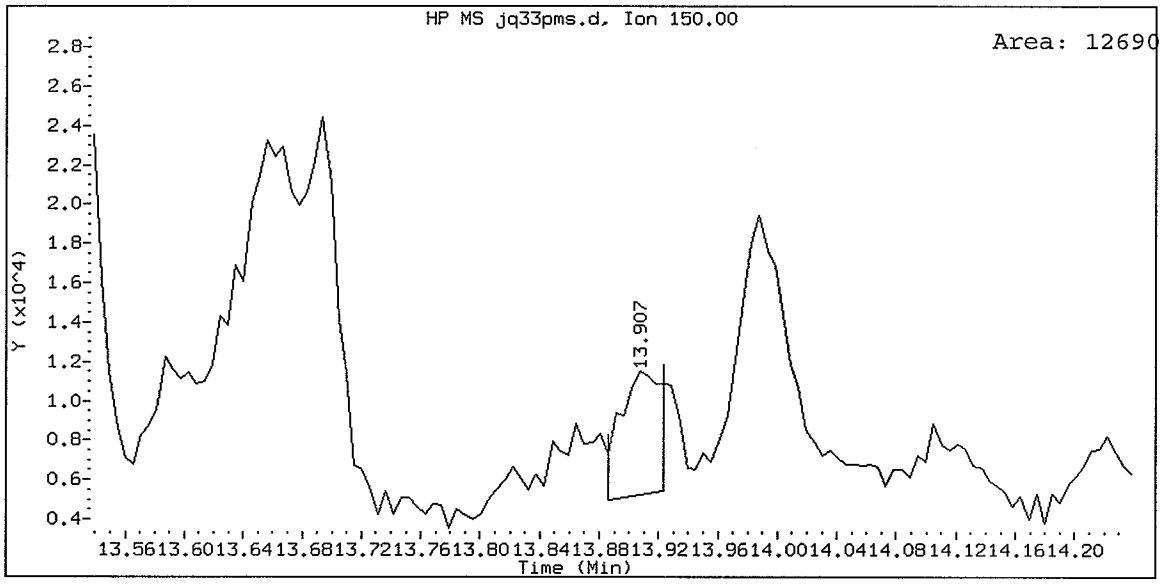


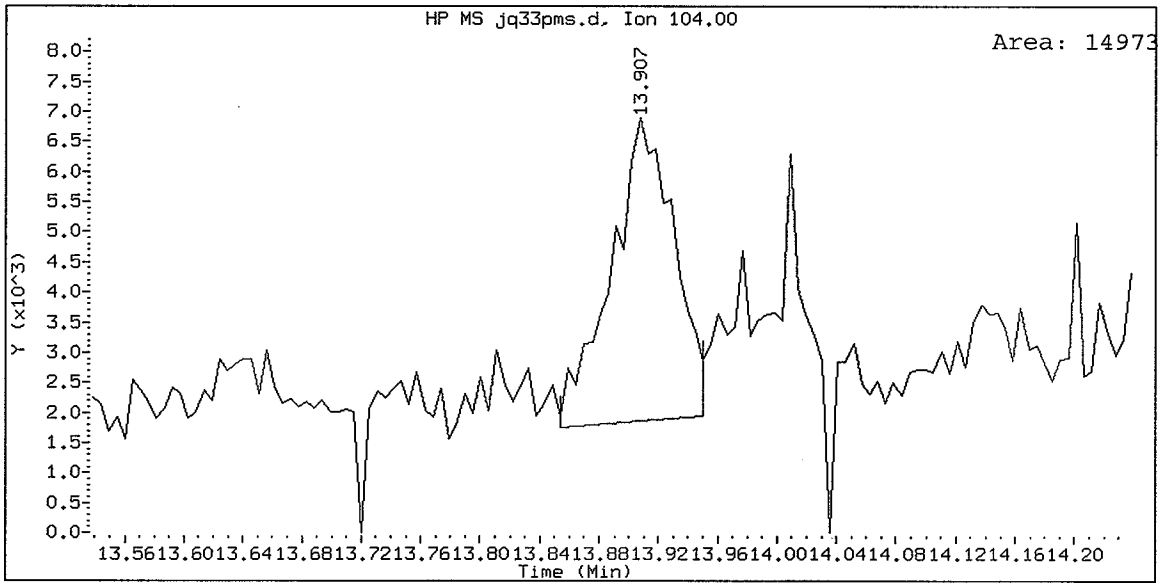




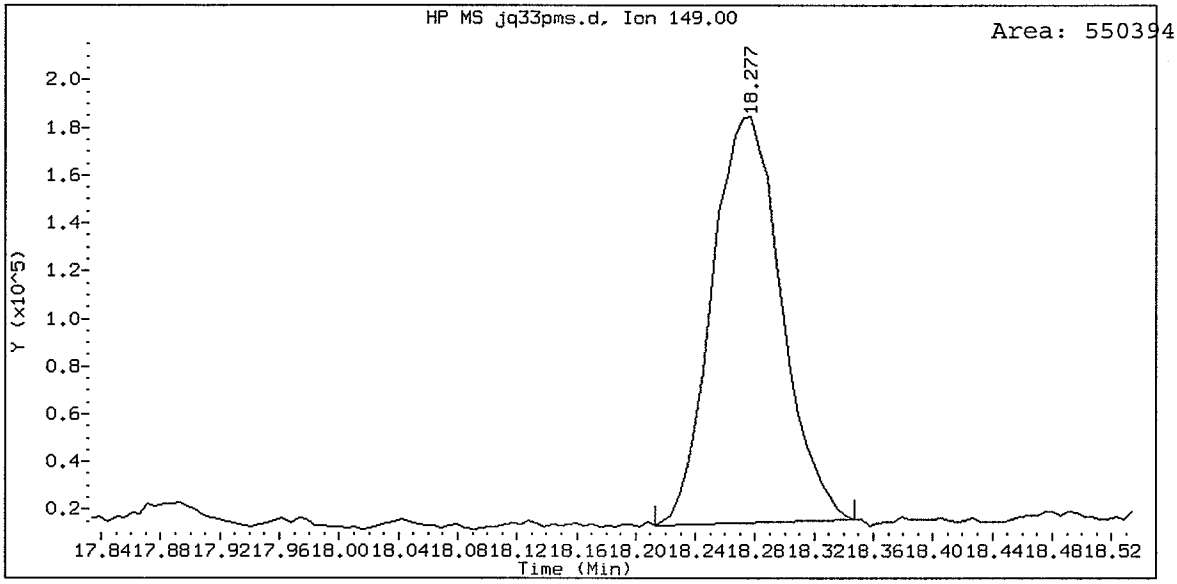
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Di-n-butylphthalate Amount: 2.28

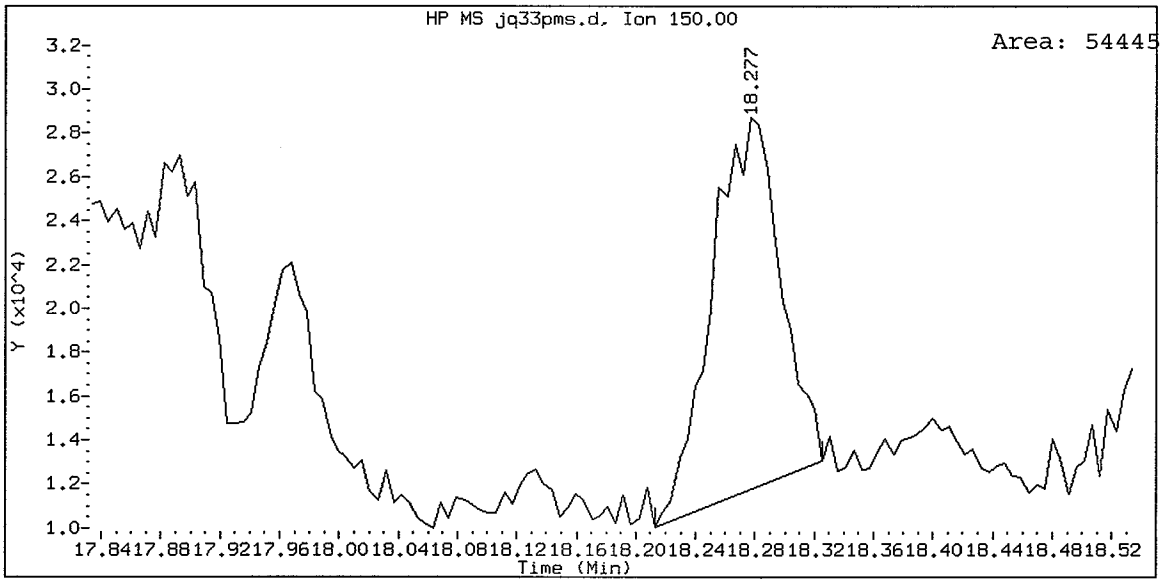


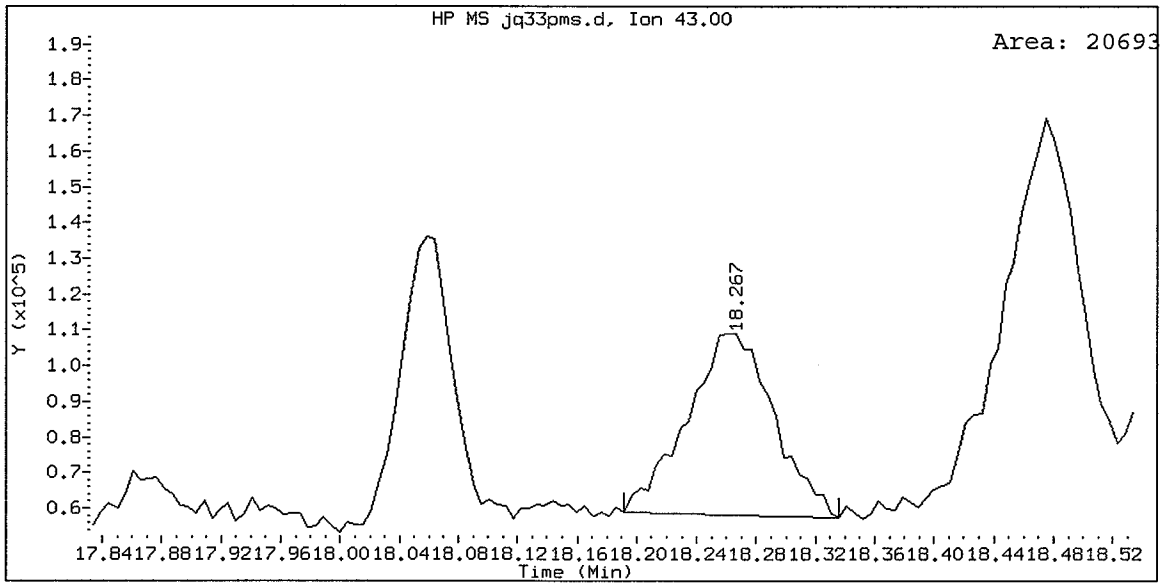




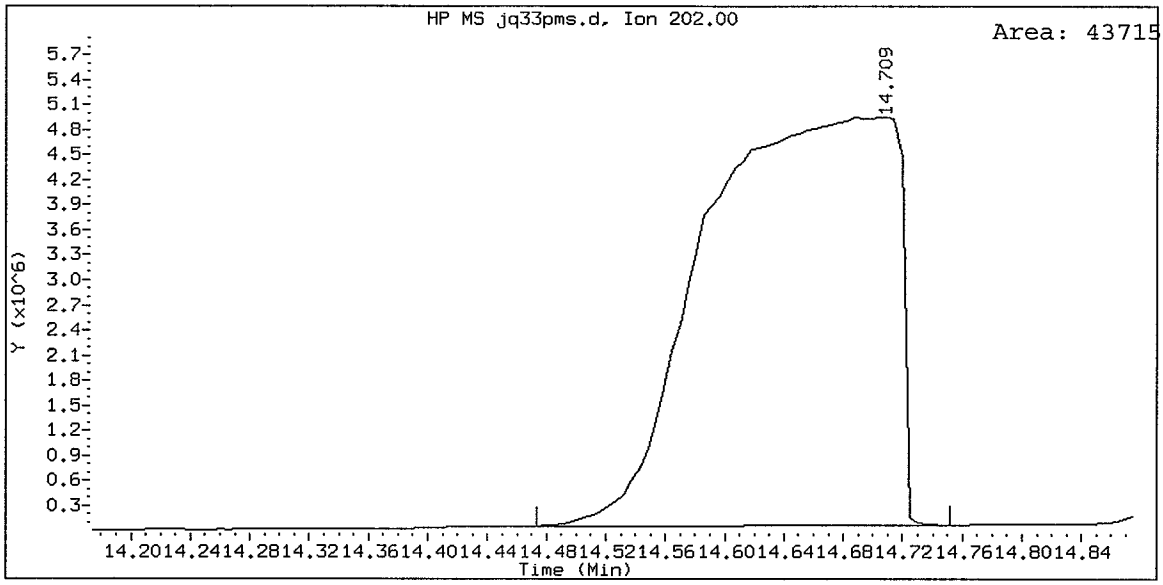
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Di-n-octylphthalate Amount: 11.84

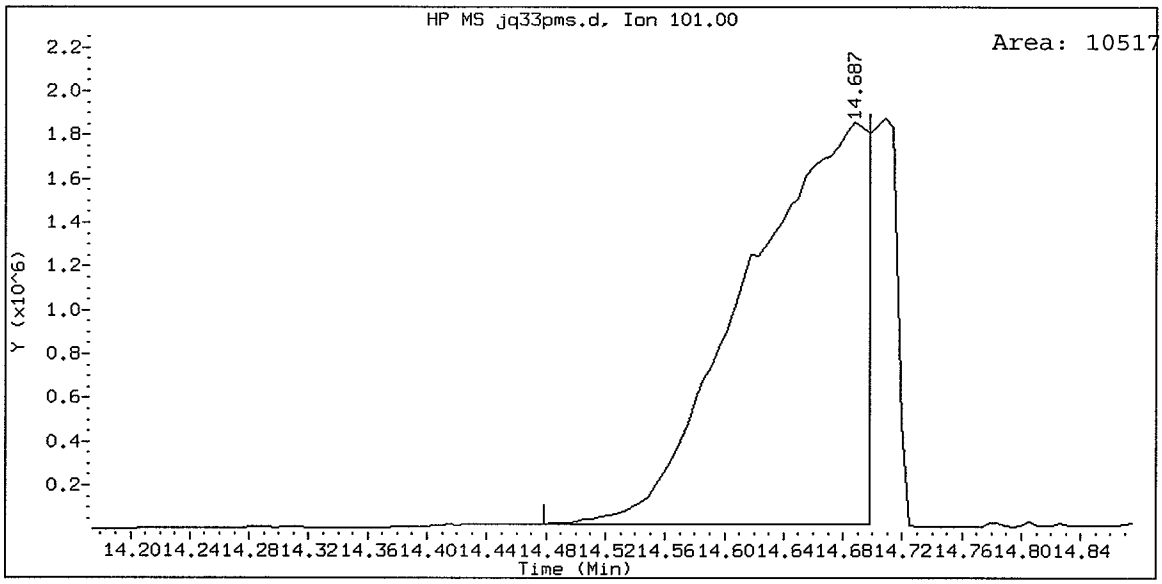


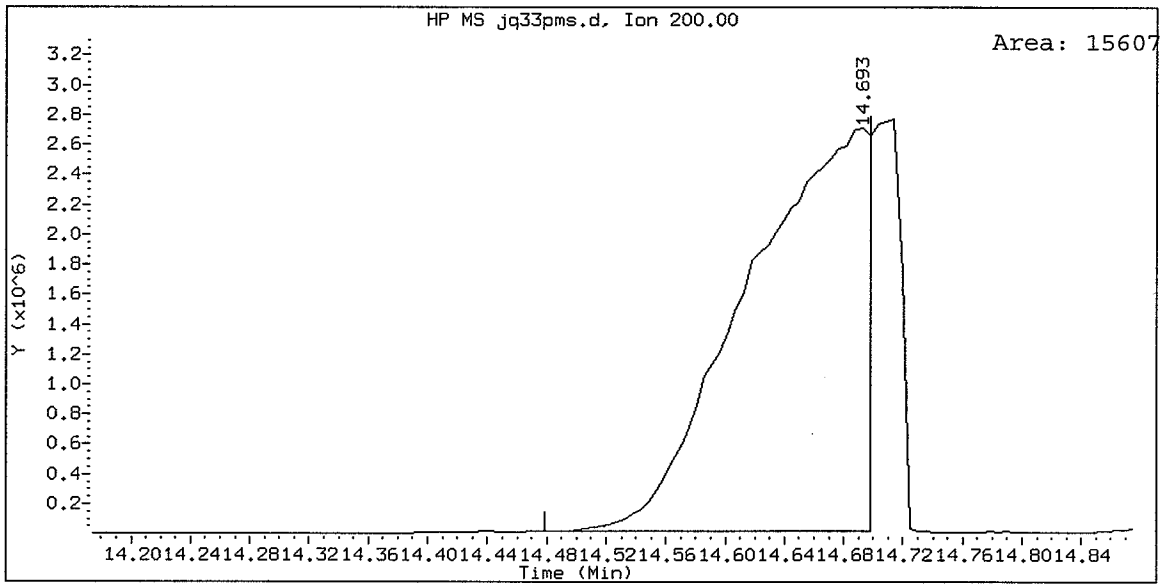




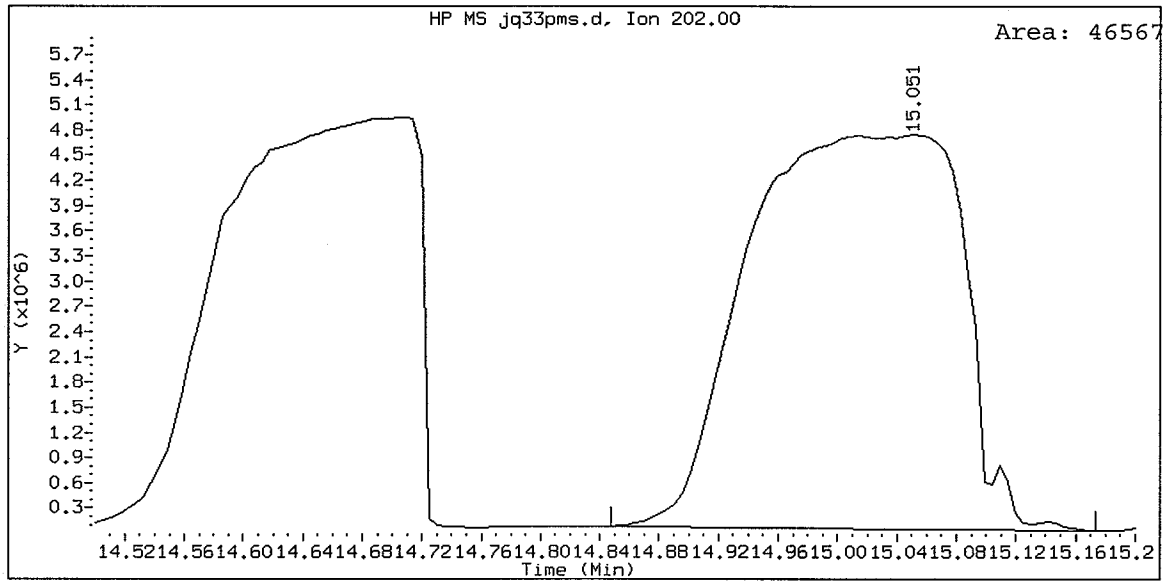
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Fluoranthene Amount: 900.37

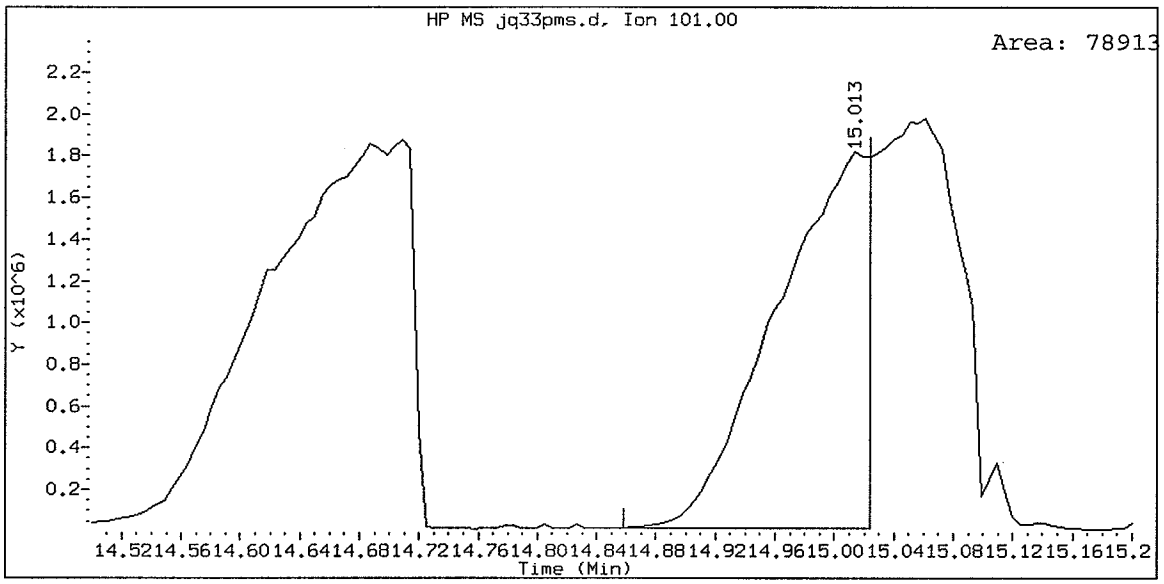


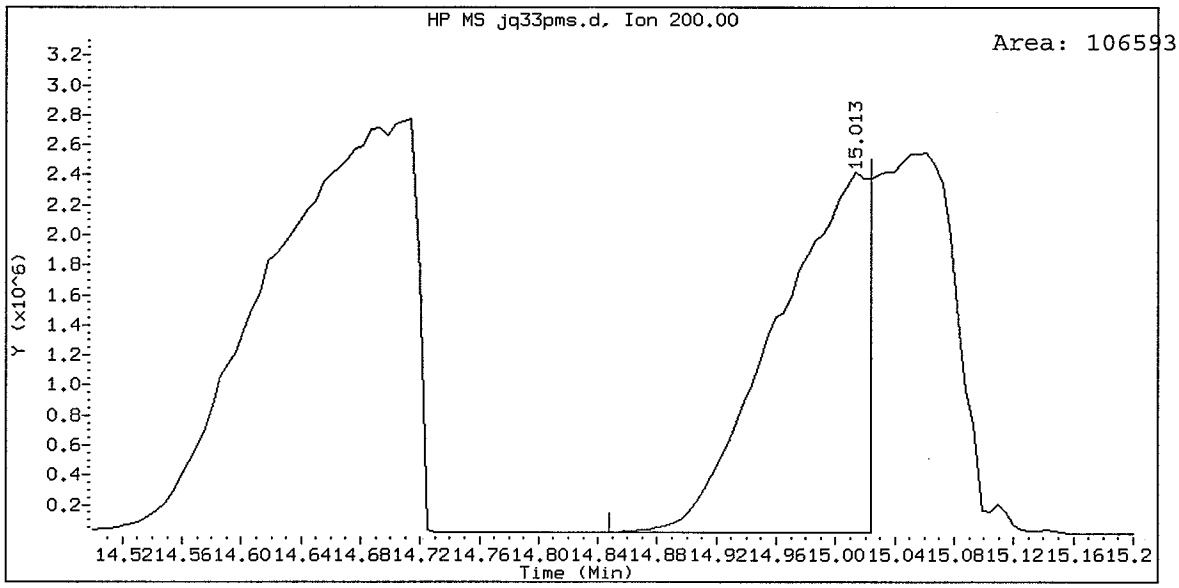




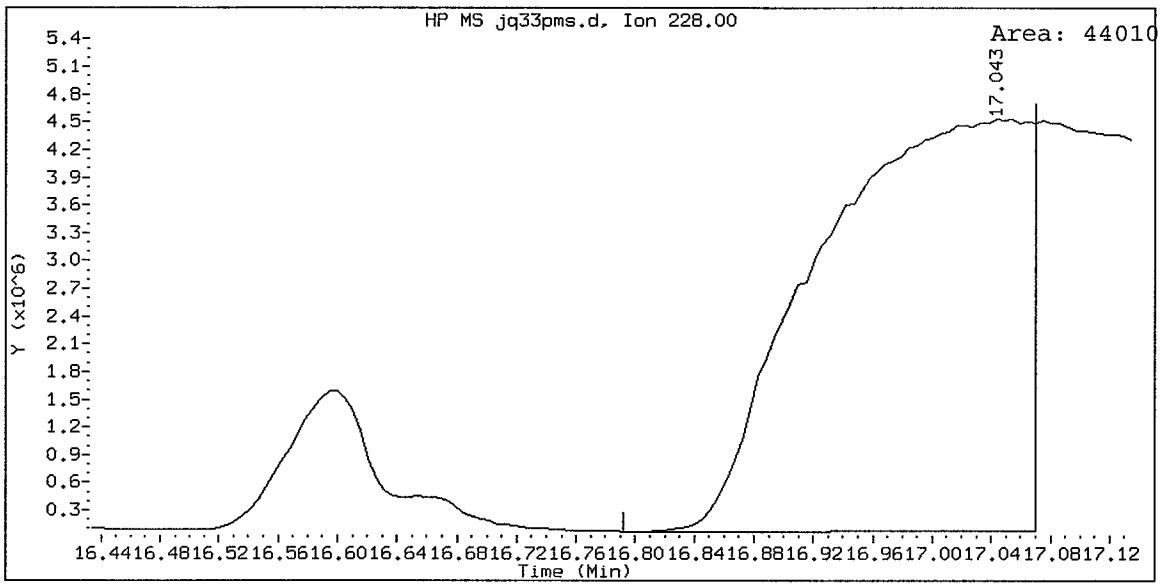
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Pyrene Amount: 692.81

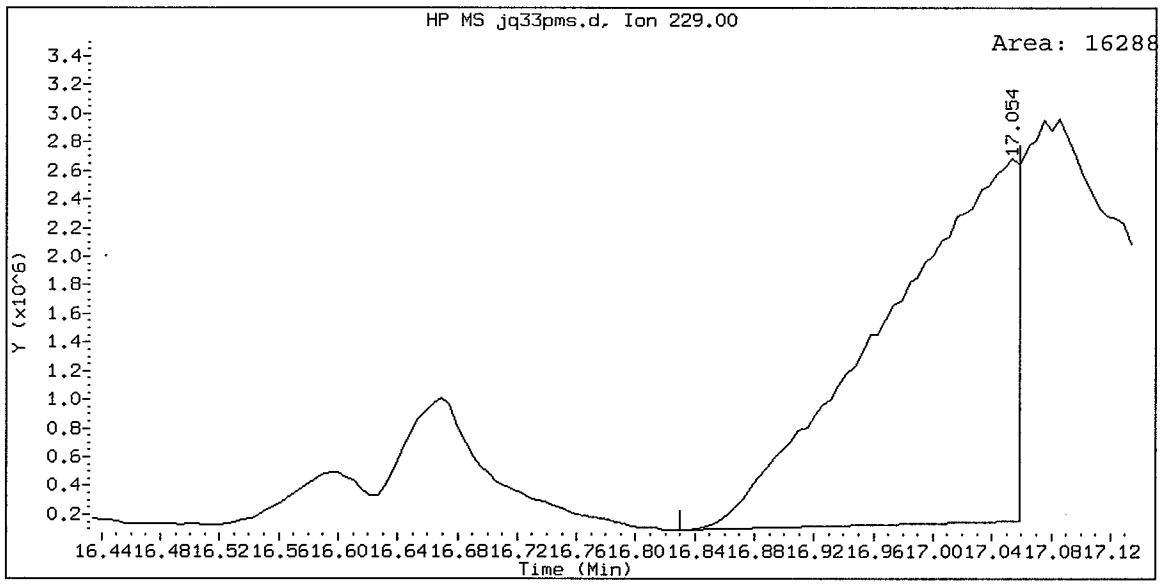


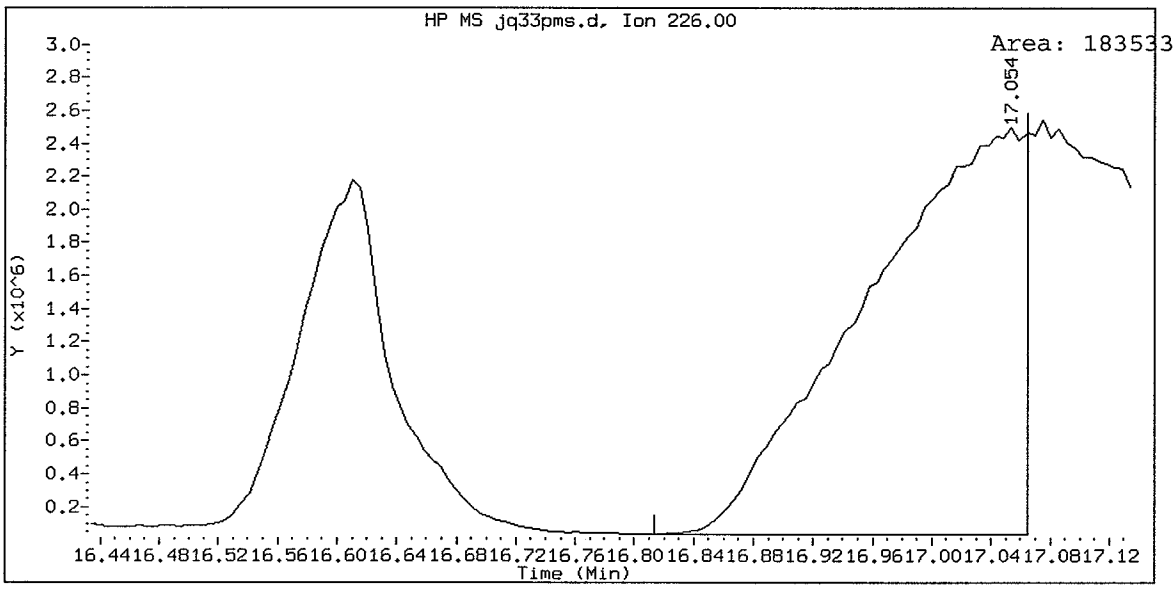




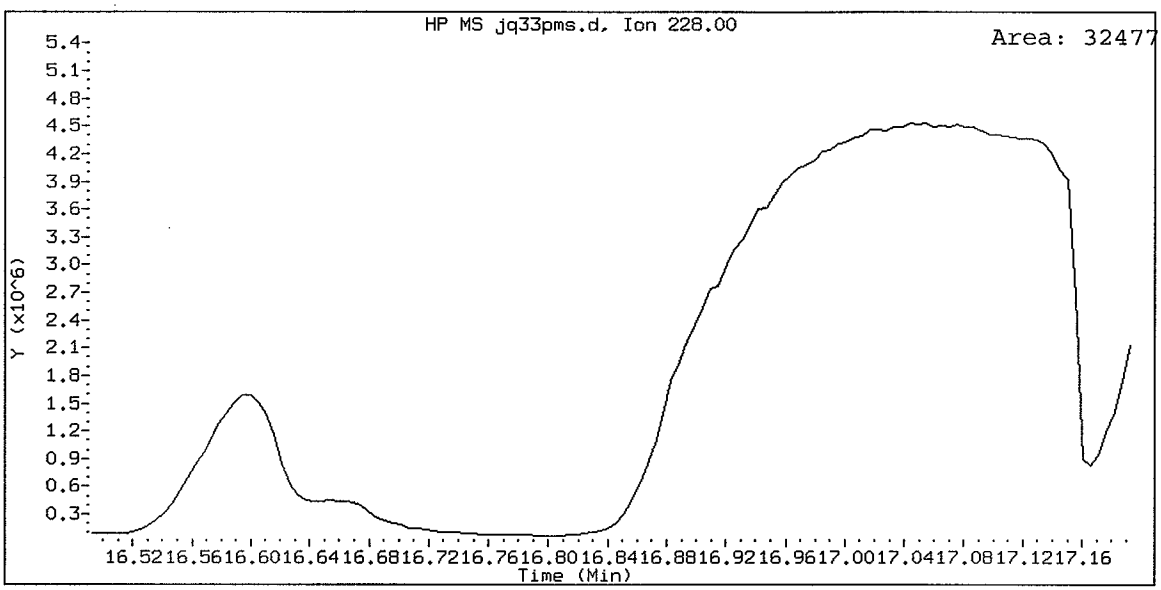
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Benzo(a)anthracene Amount: 730.39

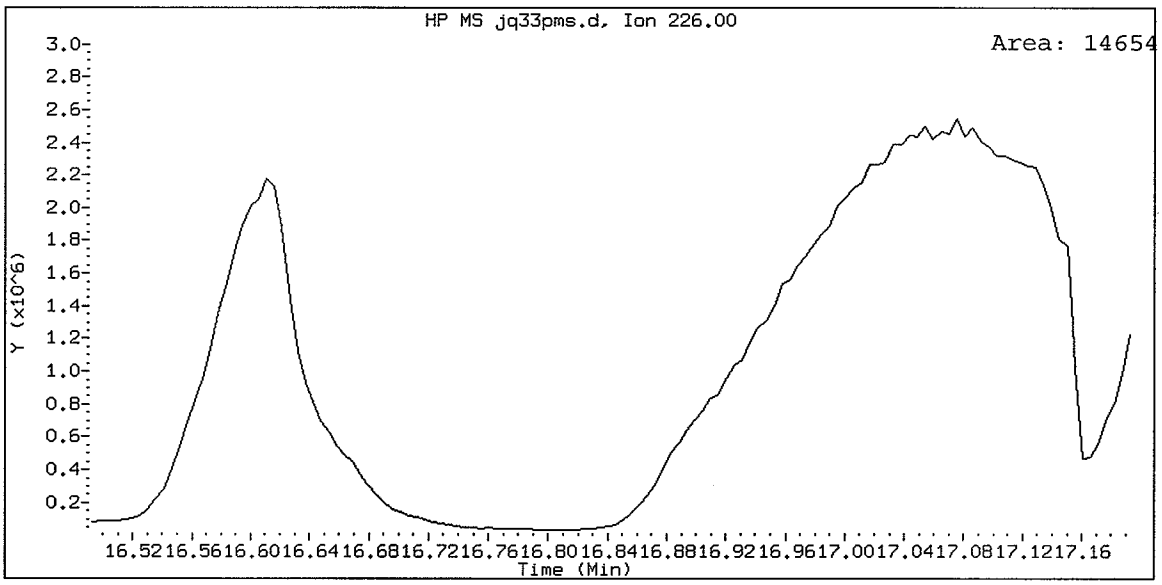


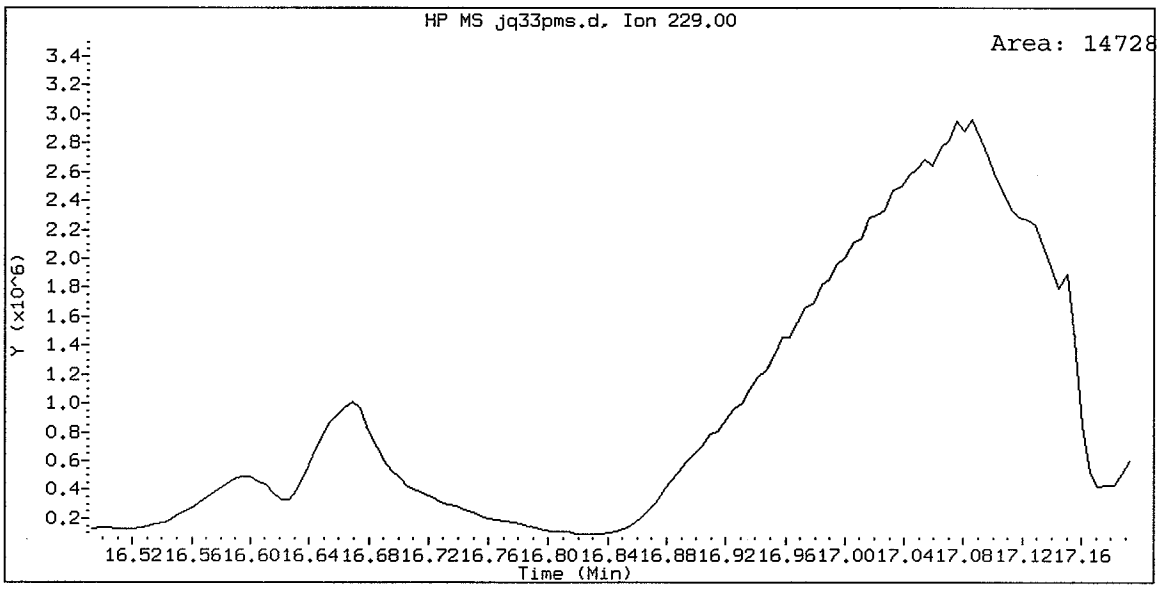




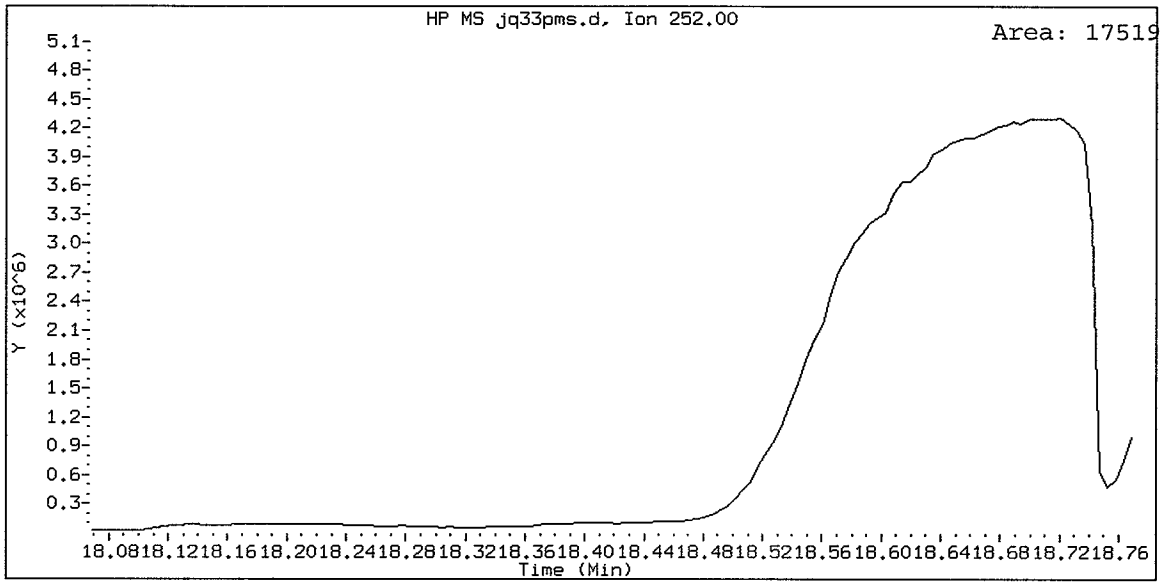
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Chrysene Amount: 542.39

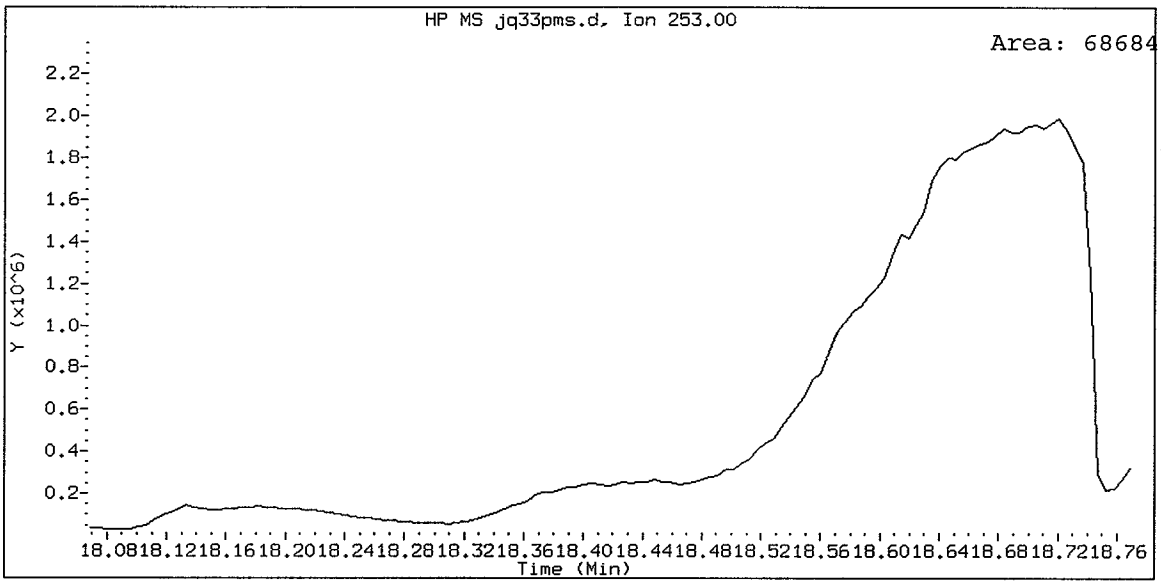


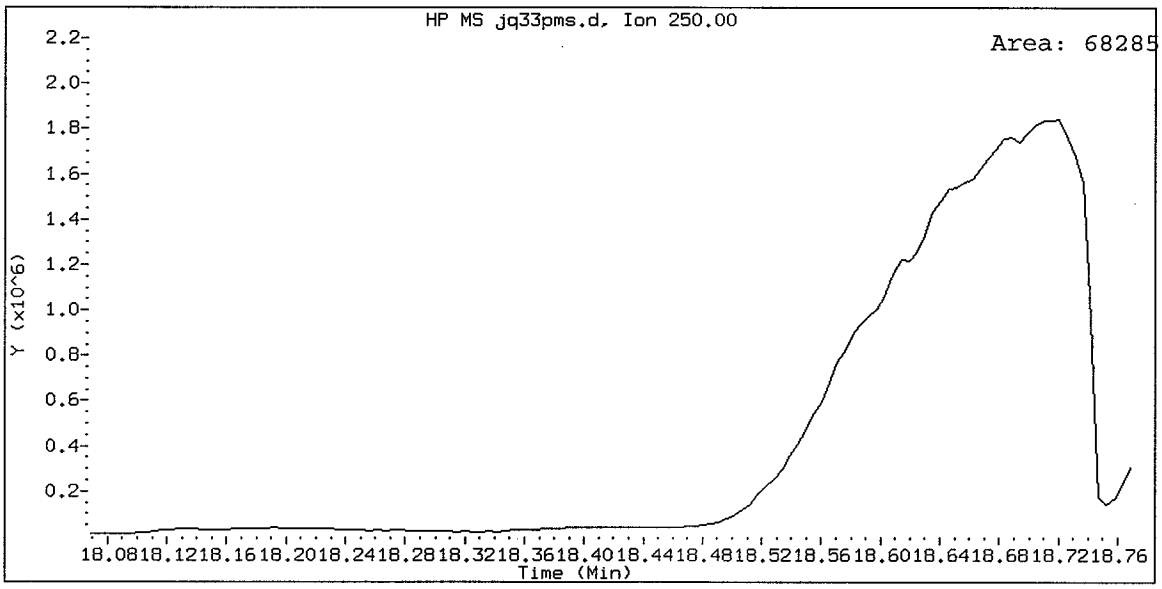




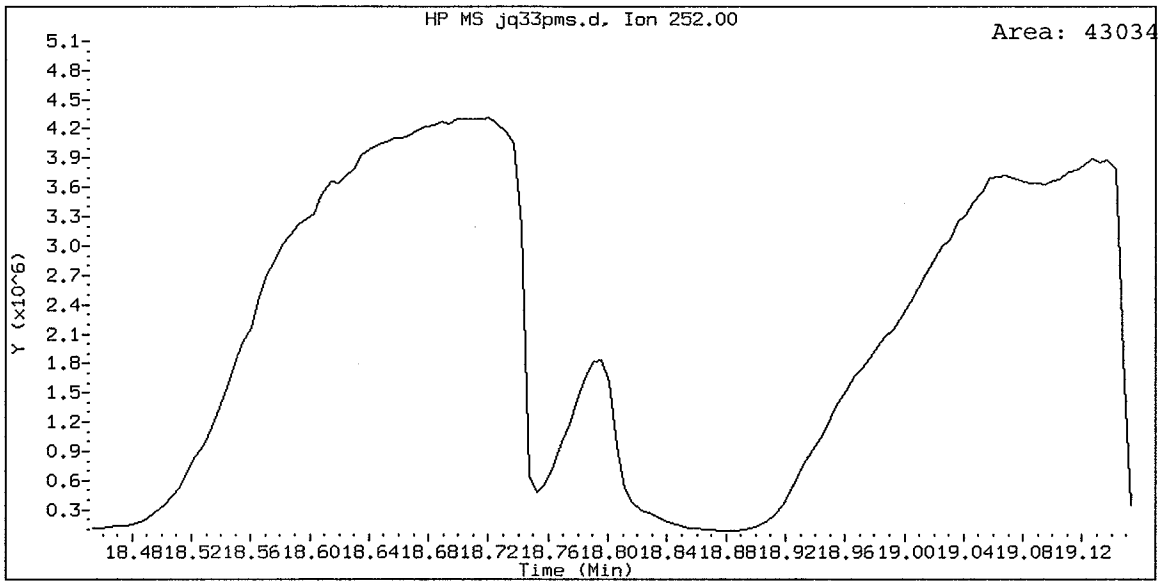
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Benzo(k)fluoranthene Amount: 1043.12

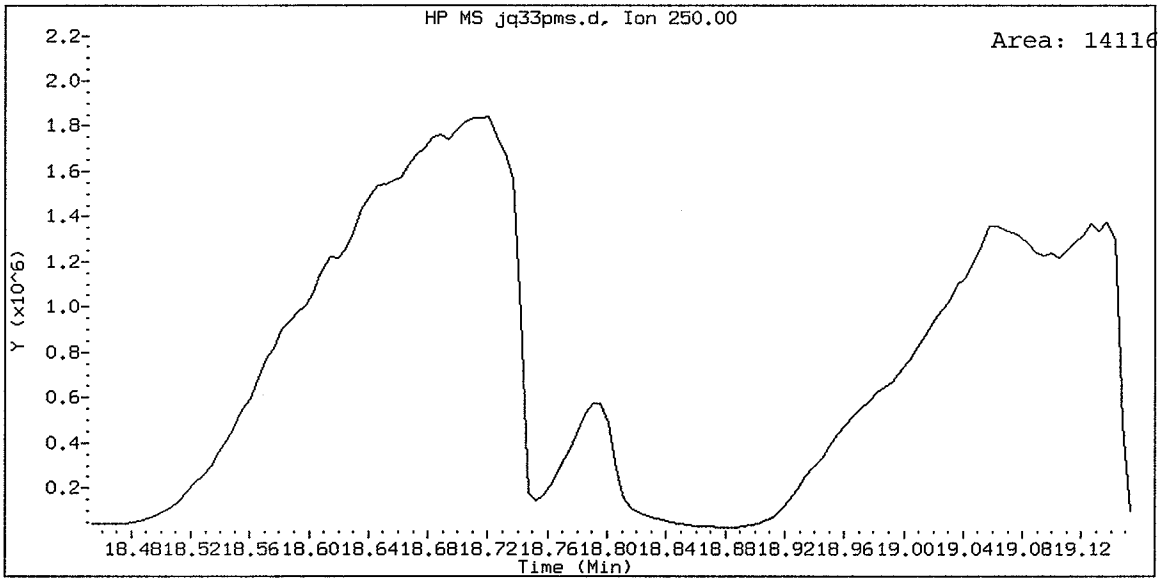


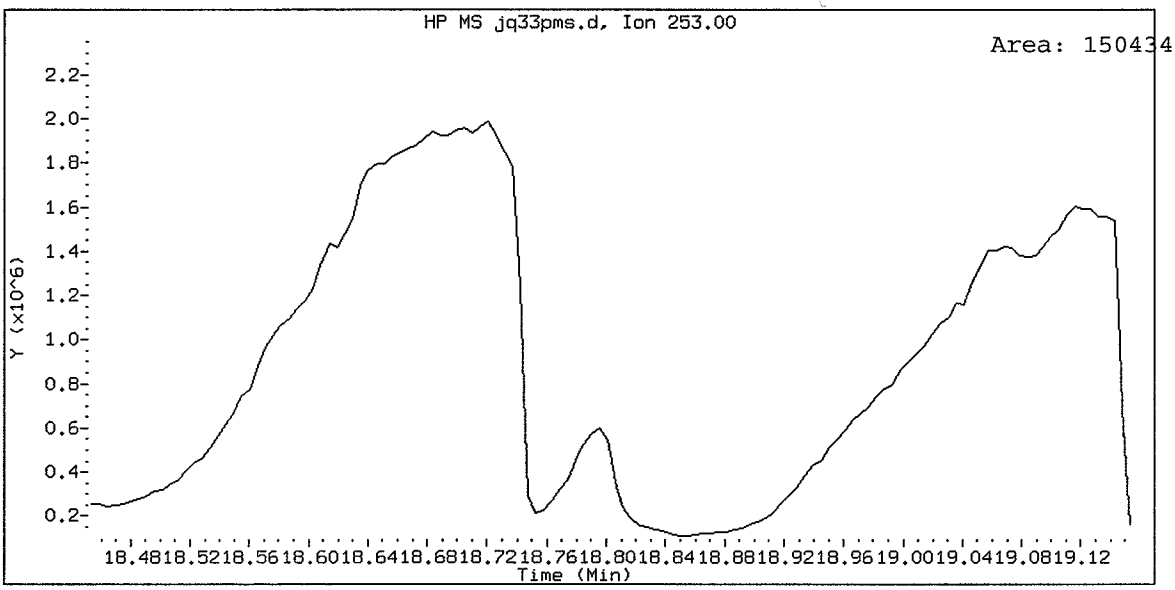




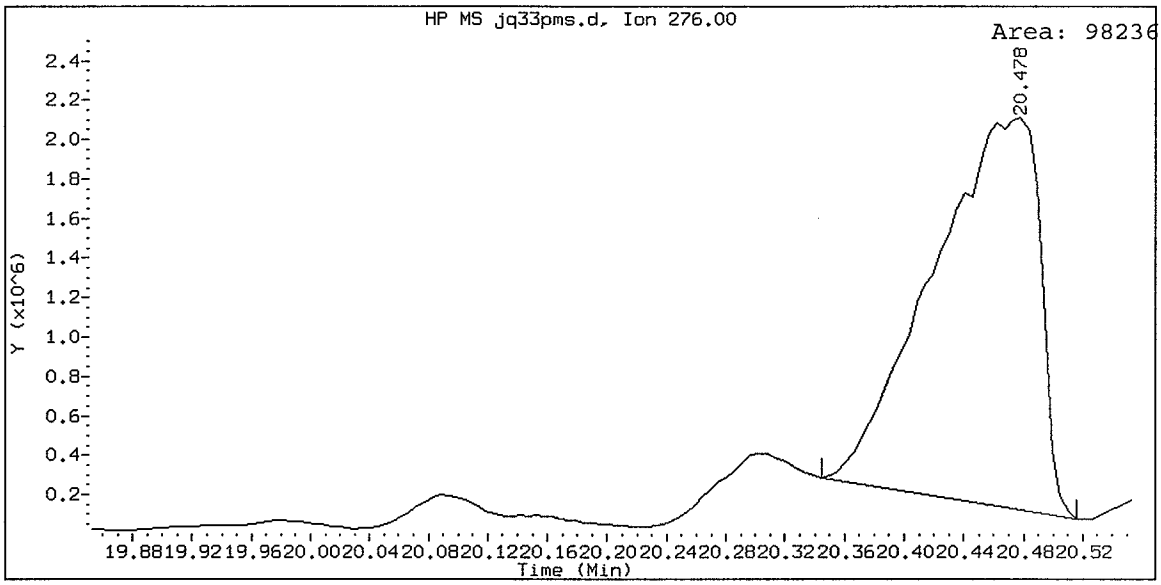
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Benzo(a)pyrene Amount: 2752.91

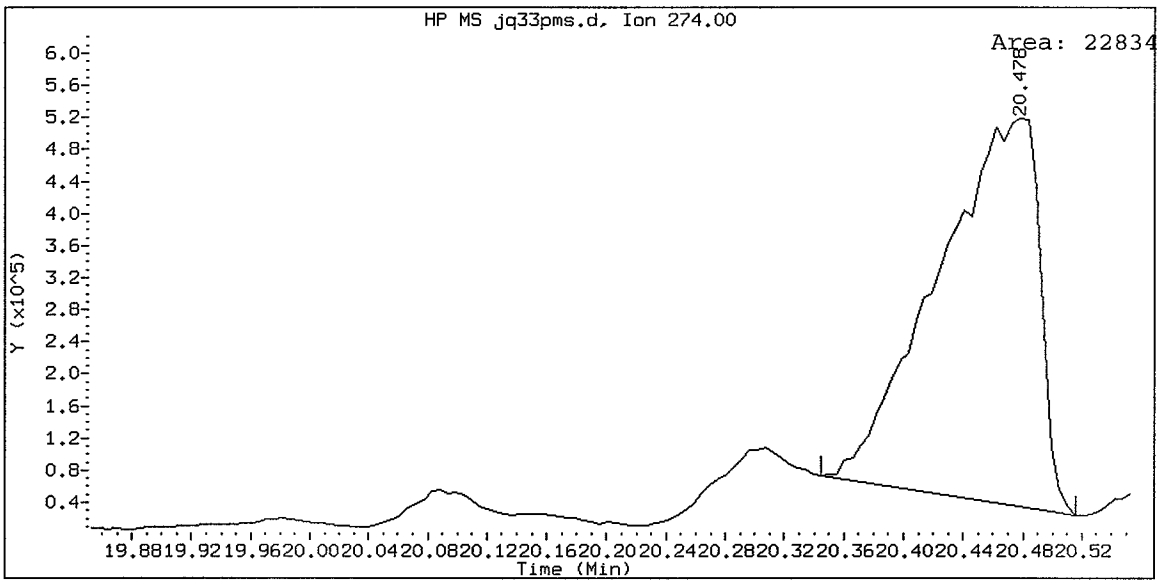


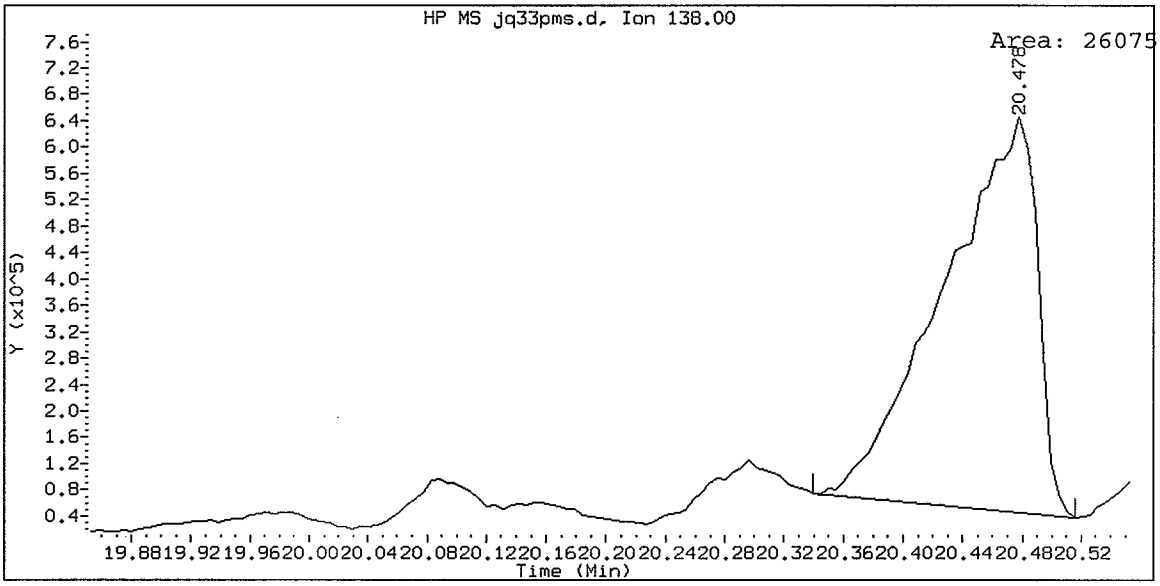




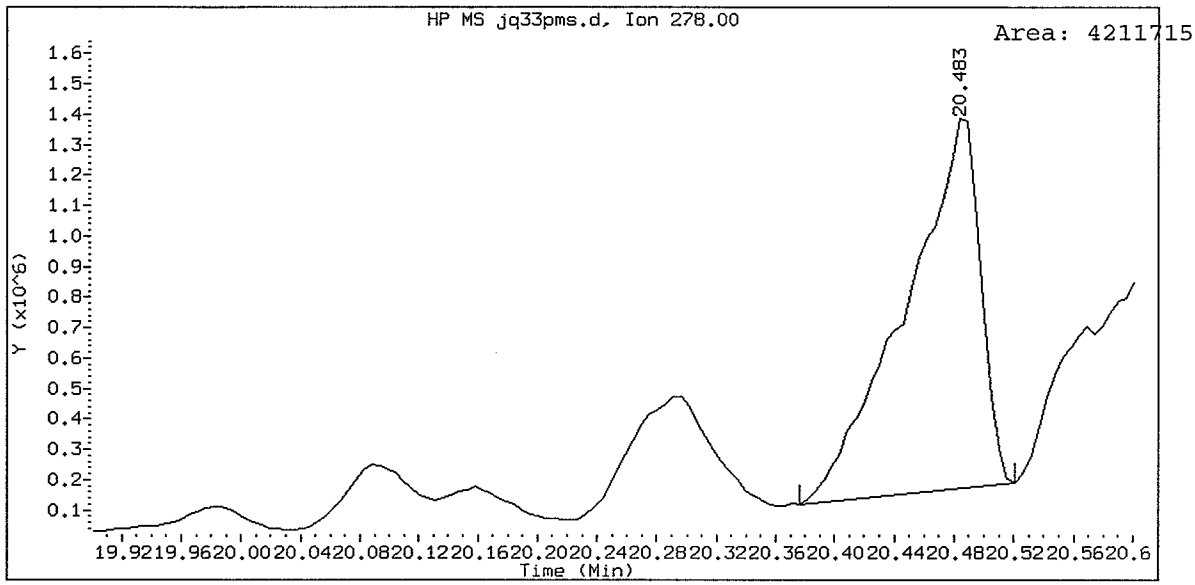
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Indeno(1,2,3-cd)pyrene Amount: 516.55

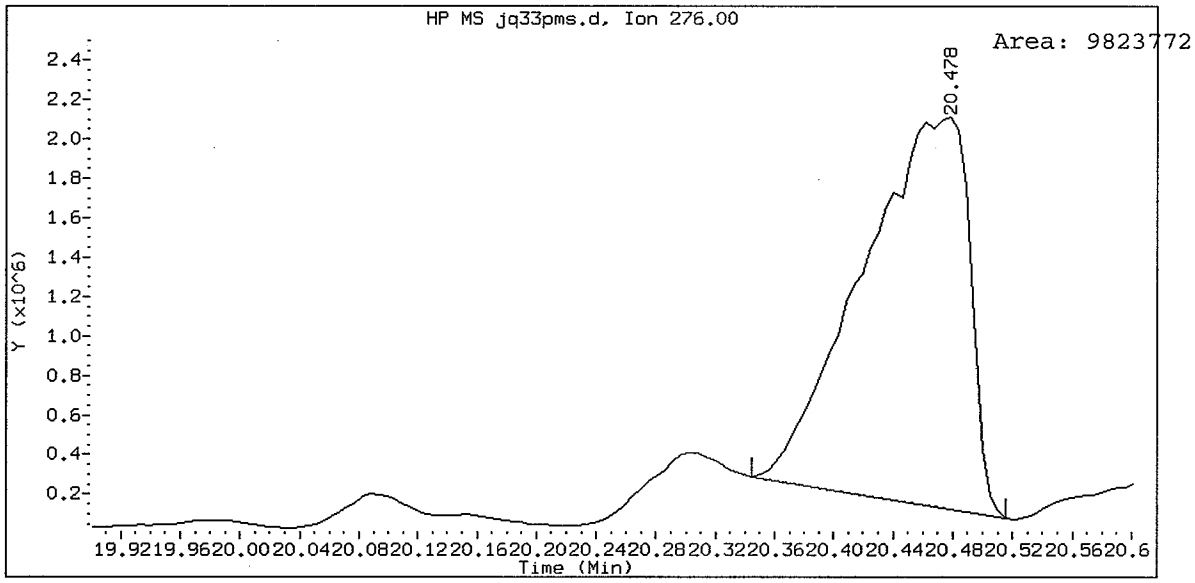


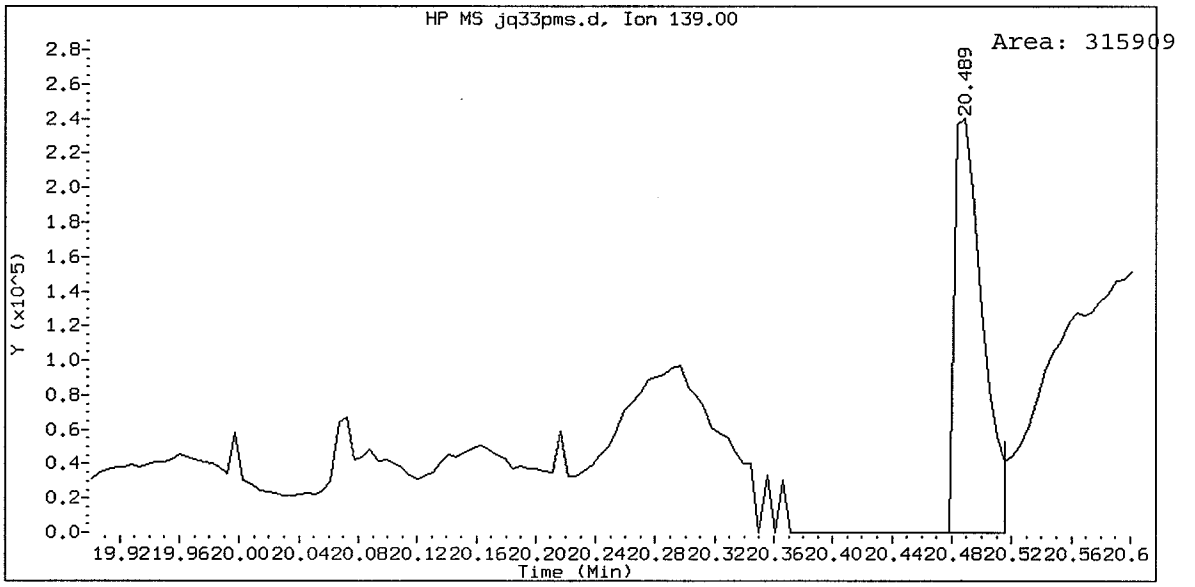




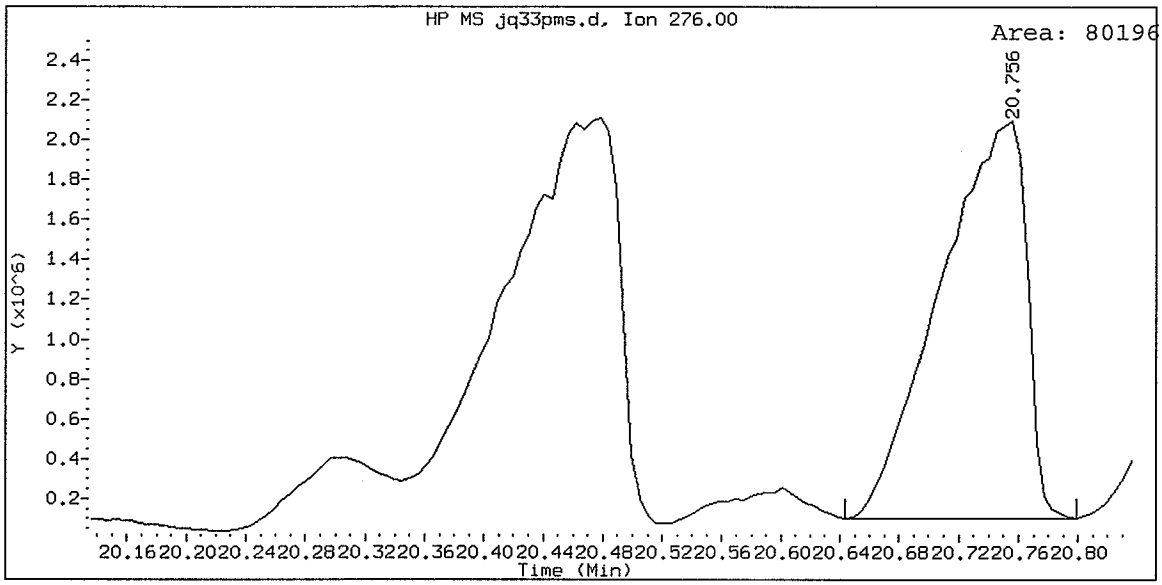
JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Dibenzo(a,h)anthracene Amount: 225.46

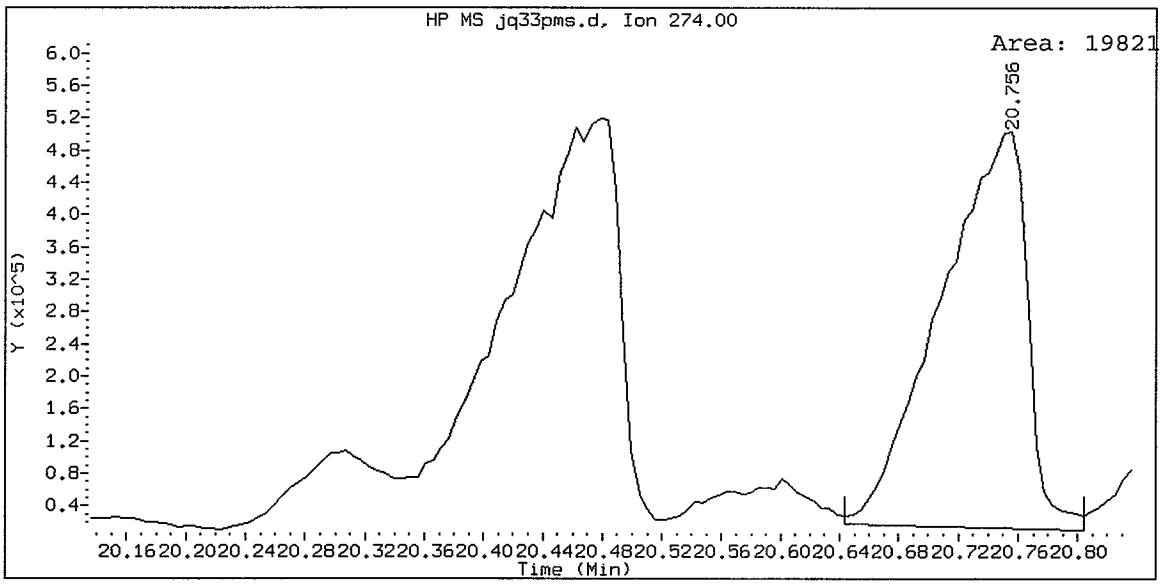


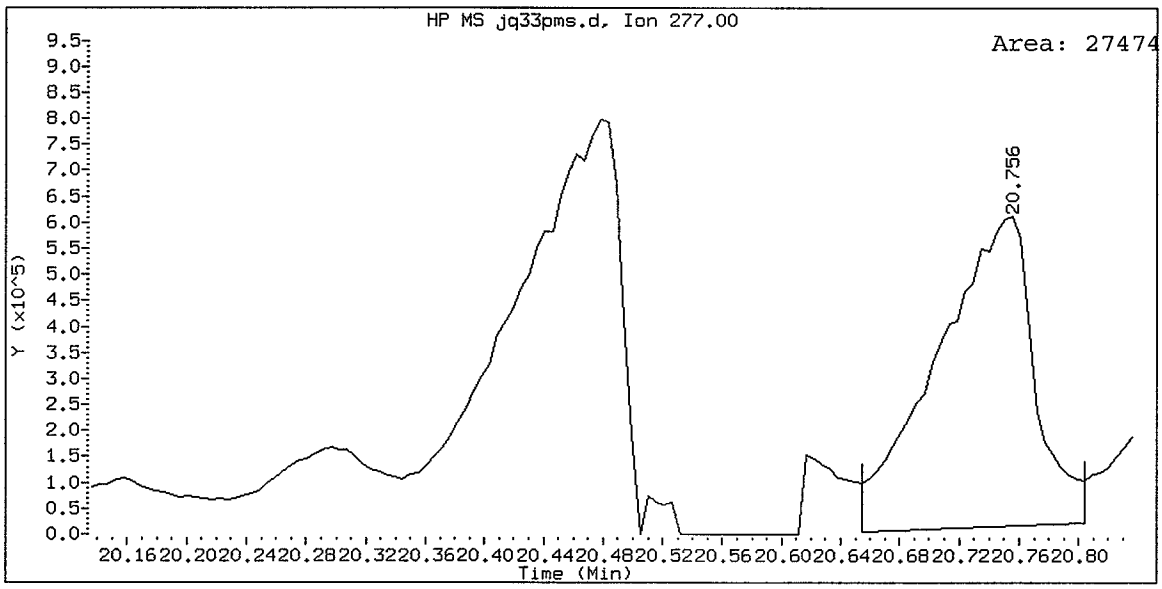




JQ33PMS, /chem1/nt6.i/20060803.b/jq33pms.d
Benzo(g,h,i)perylene Amount: 402.72







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-01-G**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JQ33P
LIMS ID: 06-12938
Matrix: Sediment
Data Release Authorized:
Reported: 08/10/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Date Extracted: 07/27/06
Date Analyzed: 08/03/06 14:27
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 19.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 44.6%
pH: 7.0

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	51	< 51 U
84-66-2	Diethylphthalate	51	< 51 U
84-74-2	Di-n-Butylphthalate	51	< 51 U
85-68-7	Butylbenzylphthalate	51	< 51 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**51**	**170 B**
117-84-0	Di-n-Octyl phthalate	51	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	21.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060803.b/jq33pmd.d
Lab Smp Id: JQ33PMSD Client Smp ID: T4-S3-01-G MSD
Inj Date : 03-AUG-2006 14:27
Operator : LJR Inst ID: nt6.i
Smp Info : JQ33PMSD
Misc Info : 06-12938
Comment : 1ul Injection
Method : /chem1/nt6.i/20060803.b/SW846.m
Meth Date : 10-Aug-2006 12:06 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 8/10/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	35.50000	Weight of sample extracted (g)
M	44.60000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	3.453	3.405	(0.628)	97331	9.36767	476.3
$	2 Phenol-d5	99	5.253	5.248	(0.955)	127204	10.1041	513.8(M)
	3 Phenol	94	5.275	5.269	(0.959)	134413	8.56829	435.7(M)
$	5 2-Chlorophenol-d4	132	5.216	5.216	(0.948)	111341	10.4303	530.3(RM)
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	5.243	5.242	(0.953)	106897	9.90345	503.6(RM)
	7 1,3-Dichlorobenzene	146	5.520	5.424	(1.004)	78629	6.70151	340.7(RM) RT
*	8 1,4-Dichlorobenzene-d4	152	5.499	5.494	(1.000)	140806	20.0000	(M)
	9 1,4-Dichlorobenzene	146	5.520	5.520	(1.004)	78630	6.52137	331.6(RM)
$	10 1,2-Dichlorobenzene-d4	152	5.793	5.798	(1.053)	47845	6.95295	353.5(M)
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	6.364	6.364	(1.157)	63315	6.40918	325.9(R)
	15 4-Methylphenol	108	6.455	6.450	(1.174)	7435	0.69845 LQ	35.51(R)
$	18 Nitrobenzene-d5	82	6.461	6.466	(0.856)	92125	7.03556	357.7
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	7.497	7.577	(0.993)	13813	2.37230	120.6(RM)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	7.513	7.513	(0.995)	70580	7.59678	386.3(R)
*	27 Naphthalene-d8	136	7.550	7.545	(1.000)	483695	20.0000	
	28 Naphthalene	128	7.577	7.577	(1.004)	260694	8.86569	450.8(R)
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	8.704	8.688	(1.153)	92477	10.1617	516.7(R)
	32 2-Methylnaphthalene	141	8.699	8.688	(1.152)	88014	5.53415	281.4(R)
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.372	9.367	(0.906)	170846	7.45725	379.2(R)
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.344	10.334	(1.000)	306830	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	10.398	10.382	(1.005)	1124163	57.0559	2901(R)
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	10.654	10.643	(1.030)	279521	10.3112	524.3(R)
	47 4-Nitrophenol	109	10.857	10.830	(1.050)	27722	8.18590	416.2(M)
	48 2,4-Dinitrotoluene	165	10.825	10.798	(1.046)	37949	6.14304	312.4(R)
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	11.194	11.178	(1.082)	518870	23.5954	1200
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.610	11.605	(1.122)	44539	15.0958	767.6
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	12.551	12.508	(0.992)	38662	8.03286	408.4(RM)
*	59 Phenanthrene-d10	188	12.652	12.620	(1.000)	600698	20.0000	
	60 Phenanthrene	178	12.706	12.652	(1.004)	7352603	183.865 E	9349(R)
	61 Anthracene	178	12.759	12.721	(1.008)	1435133	35.7482	1818(R)
	62 Carbazole	167	13.085	13.058	(1.034)	911565	28.2068	1434
	63 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
64 Fluoranthene	202	14.618	14.522	(1.155)	16191236	410.672E	20880(R)
65 Pyrene	202	14.944	14.848	(0.883)	16098162	202.637E	10300(R)
$ 66 Terphenyl-d14	244	15.307	15.264	(0.905)	271635	5.43872	276.5
67 Butylbenzylphthalate	149	Compound Not Detected.					
68 Benzo(a)anthracene	228	16.904	16.782	(0.999)	15536335	218.150E	11090(R)
* 69 Chrysene-d12	240	16.915	16.798	(1.000)	943123	20.0000	
70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71 Chrysene	228	16.963	16.840	(1.003)	11166734	157.784E	8023(RM)
72 bis(2-Ethylhexyl)phthalate	149	17.294	17.257	(0.948)	82178	3.26582D	166.1(RM)
* 134 Di-n-octylphthalate-d4	153	18.235	18.181	(1.000)	996580	20.0000	
73 Di-n-octylphthalate	149	18.240	18.181	(1.000)	348866	7.32909	372.7(R)
74 Benzo(b)fluoranthene	252	18.550	18.384	(0.976)	15322878	454.221E	23100(RM)
75 Benzo(k)fluoranthene	252	18.555	18.416	(0.976)	6448745	184.865E	9400(RM)
76 Benzo(a)pyrene	252	18.966	18.801	(0.998)	9798632	301.785E	15340(RMH)
* 77 Perylene-d12	264	19.009	18.881	(1.000)	513834	20.0000	(M)
78 Indeno(1,2,3-cd)pyrene	276	20.345	20.200	(1.070)	4496258	113.829E	5788(RM)
79 Dibenzo(a,h)anthracene	278	20.366	20.249	(1.071)	2016859	51.9797	2643(RM)
80 Benzo(g,h,i)perylene	276	20.623	20.484	(1.085)	3537289	85.5205E	4348(RM)
90 N-Nitrosodimethylamine	74	Compound Not Detected.					
91 Aniline	93	Compound Not Detected.					
93 Benzidine	184	Compound Not Detected.					
103 Pyridine	79	Compound Not Detected.					
105 1-methylnaphthalene	141	8.854	8.848	(1.173)	41158	2.47567	125.9
111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq33pmd.d
Lab Smp Id: JQ33PMSD
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060803.b/SW846.m
Misc Info: 06-12938

Calibration Date: 03-AUG-2006
Calibration Time: 07:18
Client Smp ID: T4-S3-01-G MSD
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	174091	87046	348182	140806	-19.12
27 Naphthalene-d8	604851	302426	1209702	483695	-20.03
42 Acenaphthene-d10	360439	180220	720878	306830	-14.87
59 Phenanthrene-d10	578581	289290	1157162	600698	3.82
69 Chrysene-d12	569907	284954	1139814	943123	65.49
134 Di-n-octylphthala	833015	416508	1666030	996580	19.64
77 Perylene-d12	596448	298224	1192896	513834	-13.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.49	4.99	5.99	5.50	0.10
27 Naphthalene-d8	7.54	7.04	8.04	7.55	0.07
42 Acenaphthene-d10	10.33	9.83	10.83	10.34	0.10
59 Phenanthrene-d10	12.62	12.12	13.12	12.65	0.25
69 Chrysene-d12	16.80	16.30	17.30	16.92	0.70
134 Di-n-octylphthala	18.18	17.68	18.68	18.23	0.29
77 Perylene-d12	18.88	18.38	19.38	19.01	0.68

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ33PMSD
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060803.b/SW846.m
Misc Info: 06-12938

Client SDG: JQ33
Fraction: SV
Client Smp ID: T4-S3-01-G MSD
Operator: LJR
SampleType: MSD
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	1271	435.7	34.27	26-78
4	Bis(2-Chloroethyl	1271	0.000	*	68-113
6	2-Chlorophenol	1271	503.6	39.61*	48-111
7	1,3-Dichlorobenzen	1271	340.7	26.81*	42-93
9	1,4-Dichlorobenzen	1271	331.6	26.09*	44-88
11	Benzyl alcohol	1271	0.000	*	52-115
12	1,2-Dichlorobenze	1271	0.000	*	44-97
13	2-Methylphenol	1271	0.000	*	63-113
14	2,2'-oxybis(1-Chl	1271	0.000	*	53-121
15	4-Methylphenol	2542	35.51	1.40*	55-119
16	N-Nitroso-di-n-pro	1271	325.9	25.64*	40-120
17	Hexachloroethane	1271	0.000	*	36-91
19	Nitrobenzene	1271	0.000	*	66-120
20	Isophorone	1271	0.000	*	62-135
21	2-Nitrophenol	1271	0.000	*	60-125
22	2,4-Dimethylphenol	1271	0.000	*	50-104
23	Bis(2-Chloroethox	1271	0.000	*	61-129
24	Benzoic acid	1271	120.6	9.49*	20-99
25	2,4-Dichlorophenol	1271	0.000	*	62-127
26	1,2,4-Trichloroben	1271	386.3	30.39*	45-94
28	Naphthalene	1271	450.8	35.46*	53-111
29	4-Chloroaniline	3051	0.000	*	34-87
30	Hexachlorobutadie	1271	0.000	*	37-96
31	4-Chloro-3-methylp	1271	516.7	40.65*	53-121
32	2-Methylnaphthalen	1271	281.4	22.14*	52-114
33	Hexachlorocyclope	1271	0.000	*	10-104
34	2,4,6-Trichloroph	1271	0.000	*	50-115
35	2,4,5-Trichloroph	1271	0.000	*	61-122
37	2-Chloronaphthale	1271	0.000	*	54-118
38	2-Nitroaniline	1271	0.000	*	55-137
39	Dimethylphthalate	1271	0.000	*	57-138
40	Acenaphthylene	1271	0.000	*	56-125
41	2,6-Dinitrotoluene	1271	0.000	*	59-140

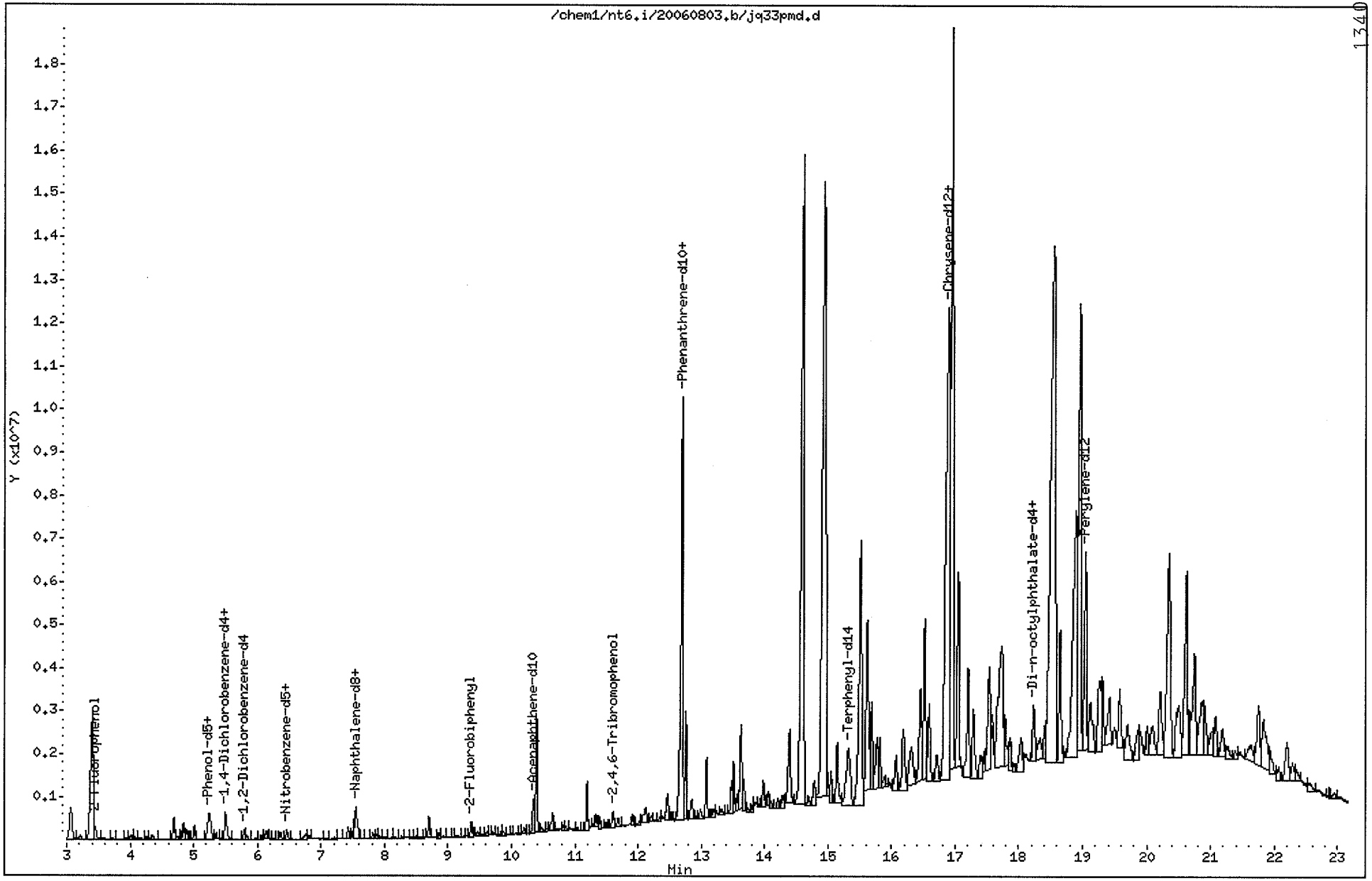
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	3254	0.000	*	60-99
44 Acenaphthene	1271	2901	228.22*	47-114
45 2,4-Dinitrophenol	1271	0.000	*	10-227
46 Dibenzofuran	1271	524.3	41.24*	54-126
47 4-Nitrophenol	1271	416.2	32.74	14-96
48 2,4-Dinitrotoluene	1271	312.4	24.57*	45-128
49 Fluorene	1271	1200	94.38	52-139
50 Diethylphthalate	1271	0.000	*	59-143
51 4-Chlorophenyl-ph	1271	0.000	*	50-141
52 4-Nitroaniline	1271	0.000	*	47-137
53 4,6-Dinitro-2-met	1271	0.000	*	10-182
54 N-Nitrosodiphenyl	1271	0.000	*	56-142
56 4-Bromophenyl-phe	1271	0.000	*	66-127
57 Hexachlorobenzene	1271	0.000	*	66-126
58 Pentachlorophenol	1271	408.4	32.13*	42-125
60 Phenanthrene	1271	9349	735.46*	58-135
61 Anthracene	1271	1818	142.99*	59-132
62 Carbazole	1271	1434	112.83	57-144
63 Di-n-butylphthala	1271	0.000	*	59-151
64 Fluoranthene	1271	20880	1642.69*	56-145
65 Pyrene	1271	10300	810.55*	44-130
67 Butylbenzylphthal	1271	0.000	*	49-156
68 Benzo(a)anthracene	1271	11090	872.60*	61-137
70 3,3'-Dichlorobenz	3254	0.000	*	27-110
71 Chrysene	1271	8023	631.14*	59-134
72 bis(2-Ethylhexyl)p	1271	166.1	13.06*	50-149
73 Di-n-octylphthalat	1271	372.7	29.32*	68-124
74 Benzo(b)fluoranthe	1271	23100	1816.88*	58-141
75 Benzo(k)fluoranthe	1271	9400	739.46*	50-148
76 Benzo(a)pyrene	1271	15340	1207.14*	60-132
78 Indeno(1,2,3-cd)py	1271	5788	455.31*	43-156
79 Dibenzo(a,h)anthra	1271	2643	207.92*	57-155
80 Benzo(g,h,i)peryle	1271	4348	342.08*	48-153

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	1907	476.3	24.98	22-91
$ 2 Phenol-d5	1907	513.8	26.94	26-99
$ 5 2-Chlorophenol-d4	1907	530.3	27.81*	29-96
$ 10 1,2-Dichlorobenzen	1271	353.5	27.81	24-87
$ 18 Nitrobenzene-d5	1271	357.7	28.14	27-101
$ 36 2-Fluorobiphenyl	1271	379.2	29.83*	30-100
$ 55 2,4,6-Tribromophen	1907	767.6	40.26	20-114

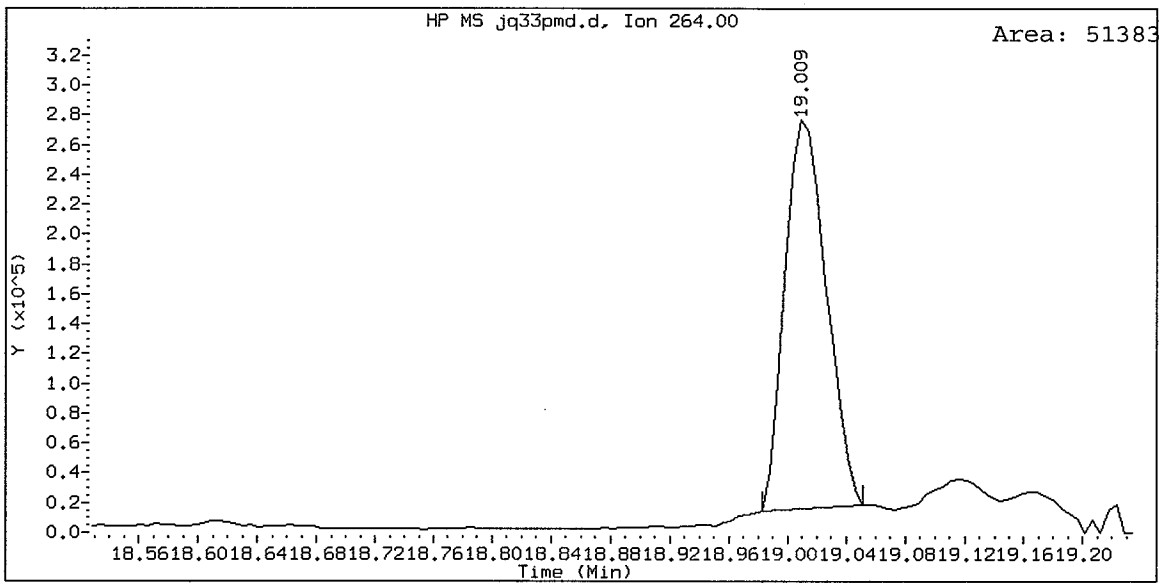
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	1271	276.5	21.75	12-120

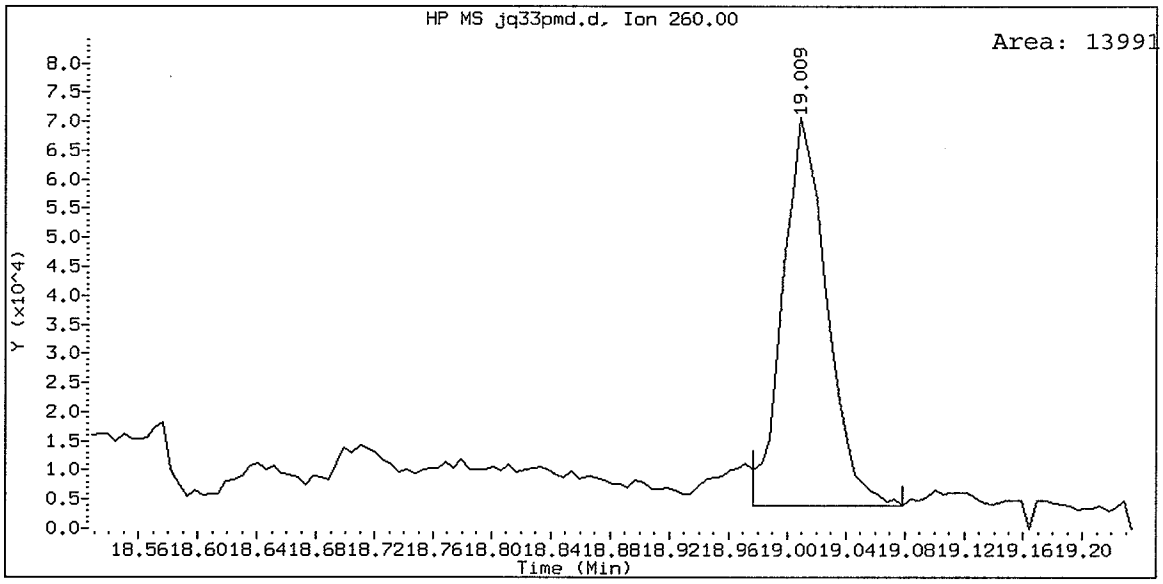
Data File: /chem1/nt6.i/20060803.b/jq33pmd.d
Date : 03-AUG-2006 14:27
Client ID: T4-S3-01-G MSD
Sample Info: JQ33PMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

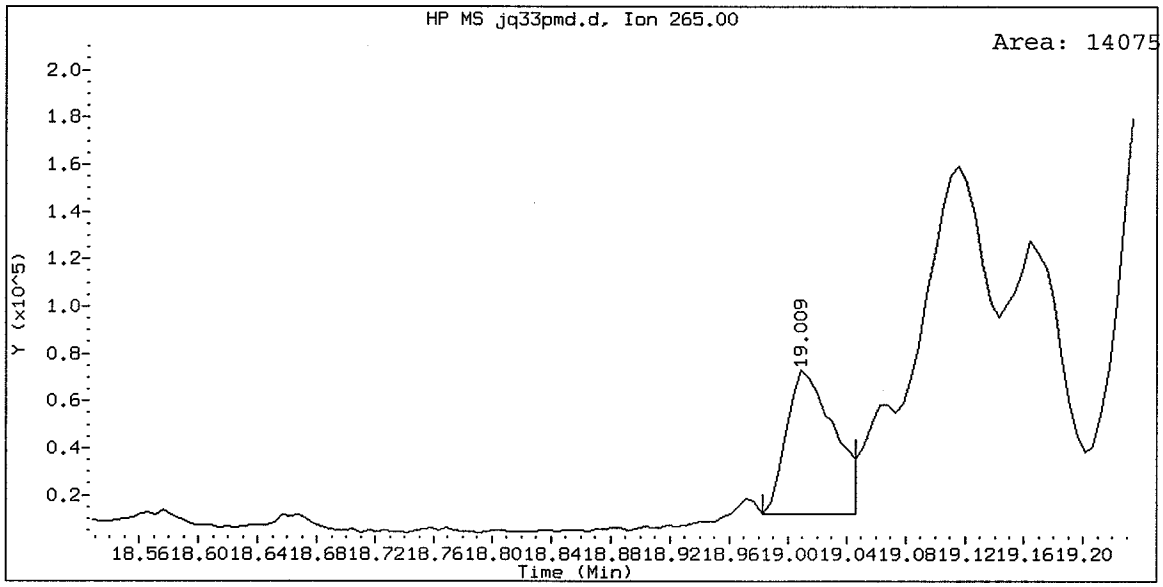
Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



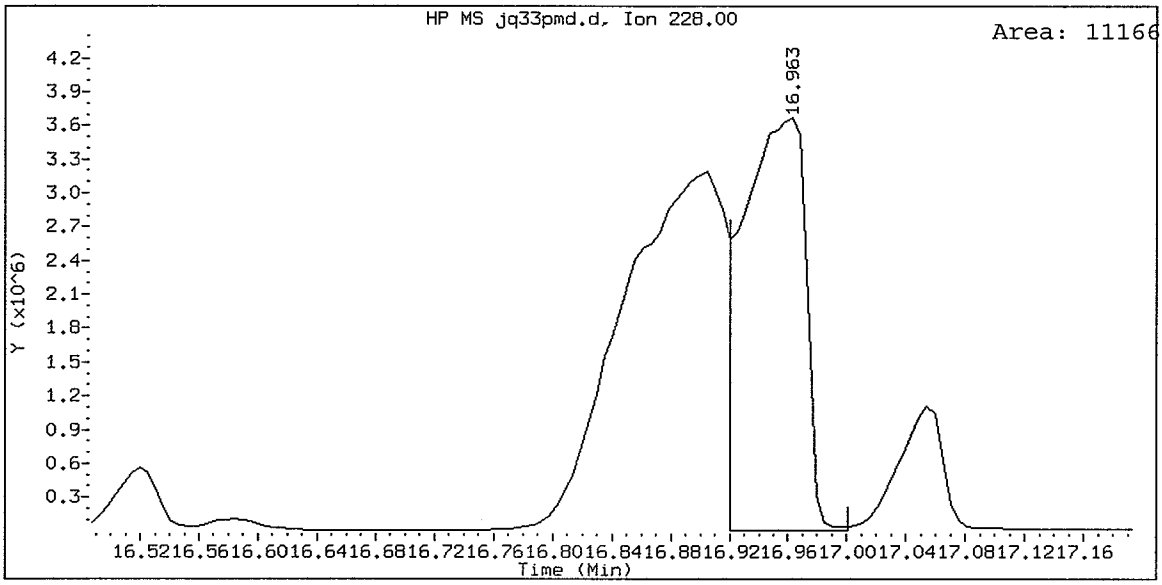
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Perylene-d12 Amount: 20.00

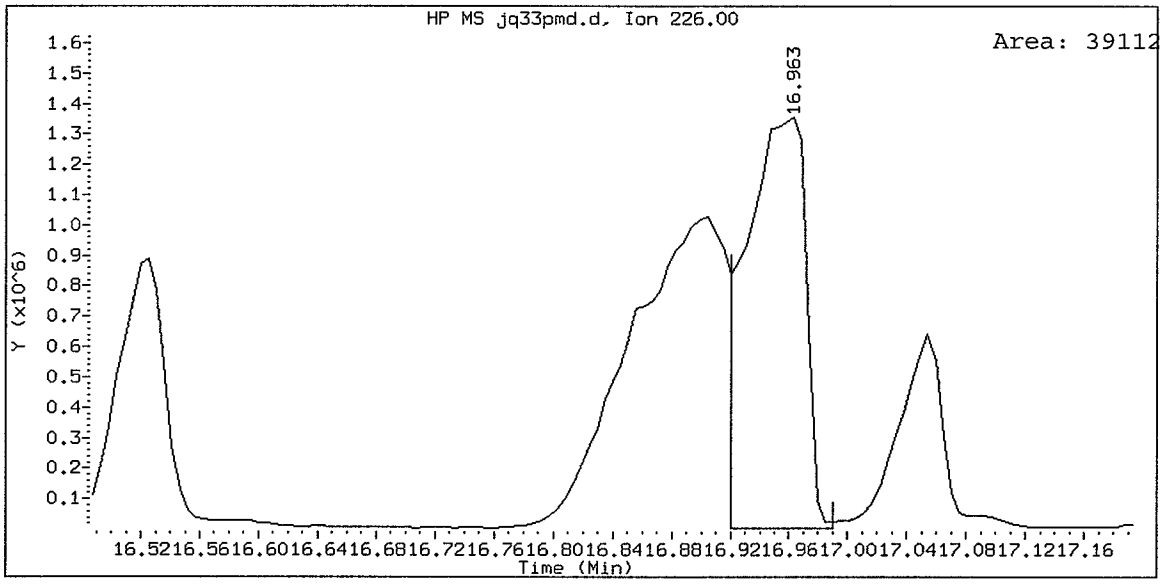


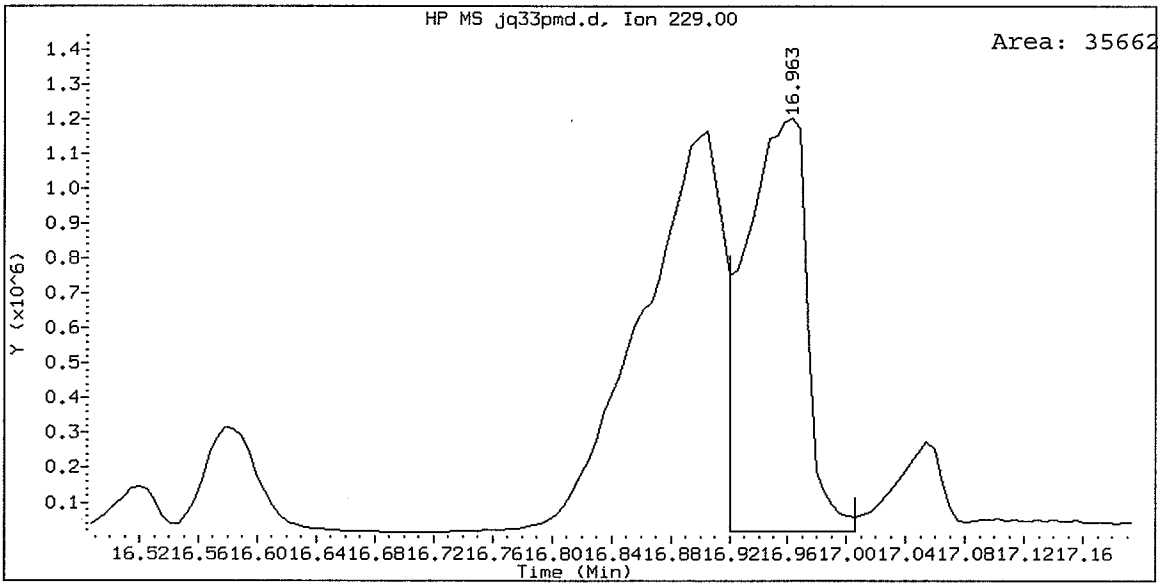




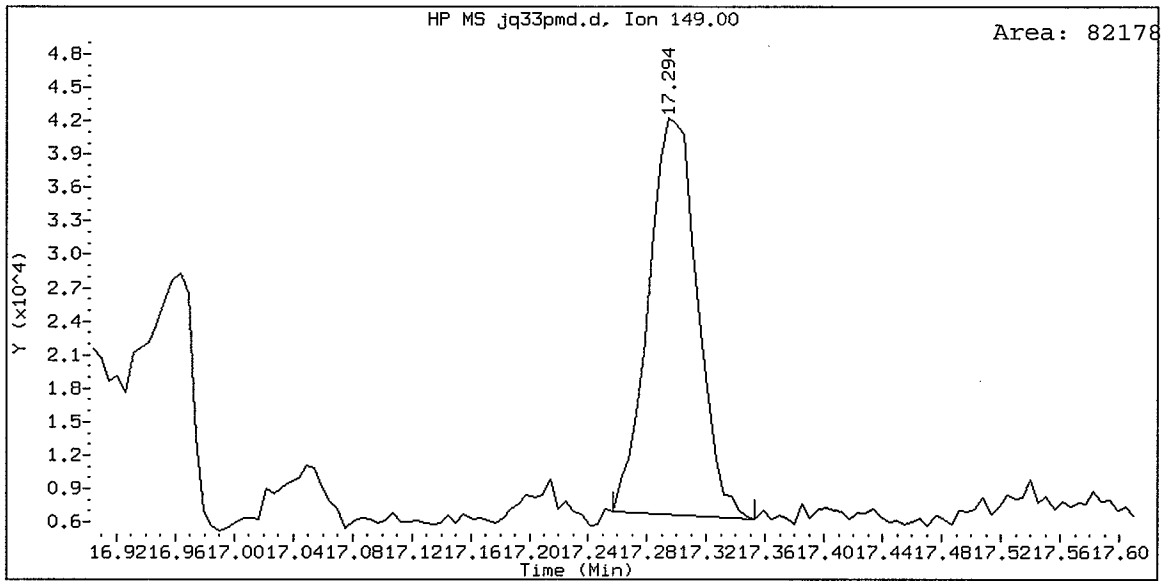
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Chrysene Amount: 157.78

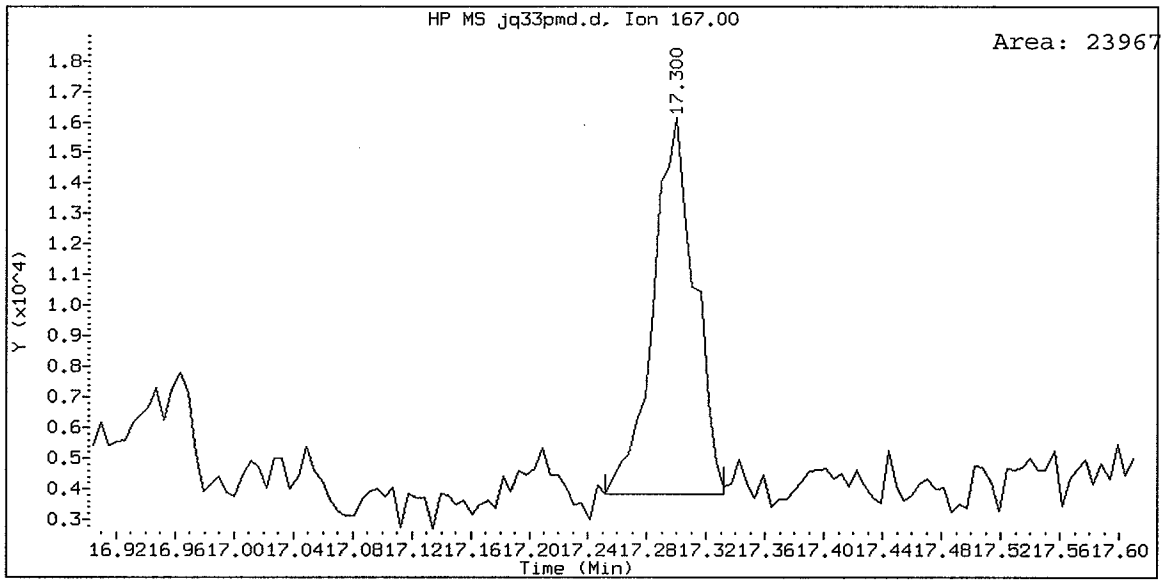


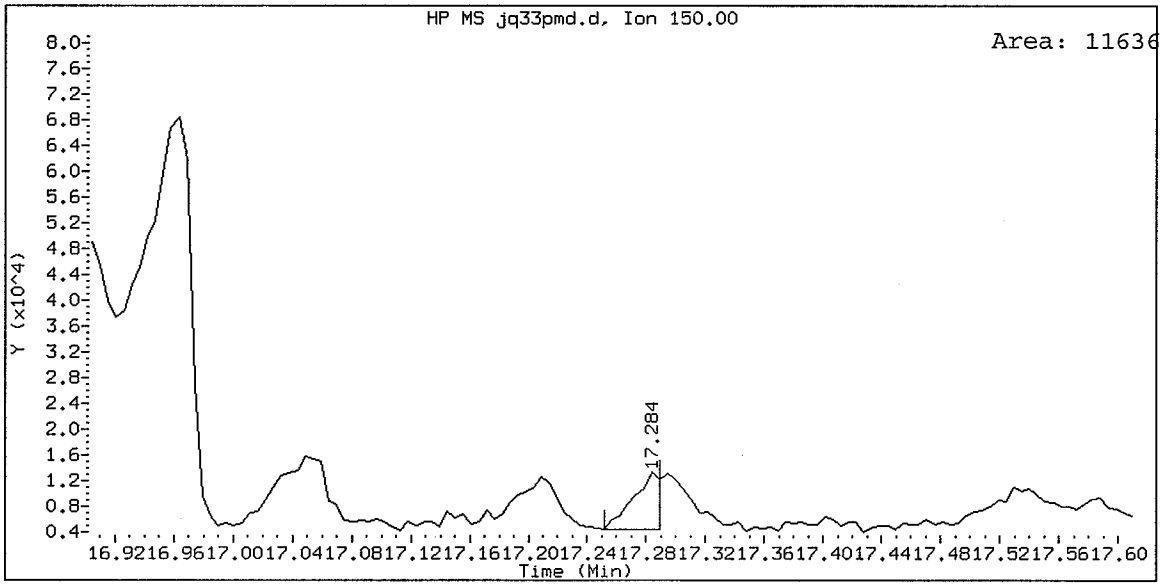




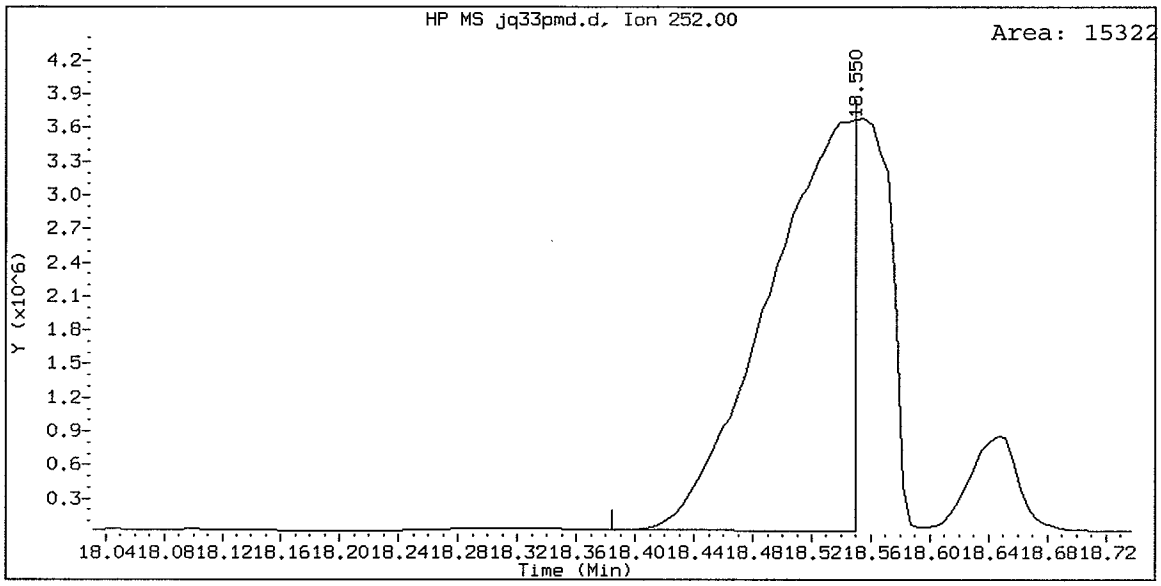
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
bis(2-Ethylhexyl)phthalate Amount: 3.27

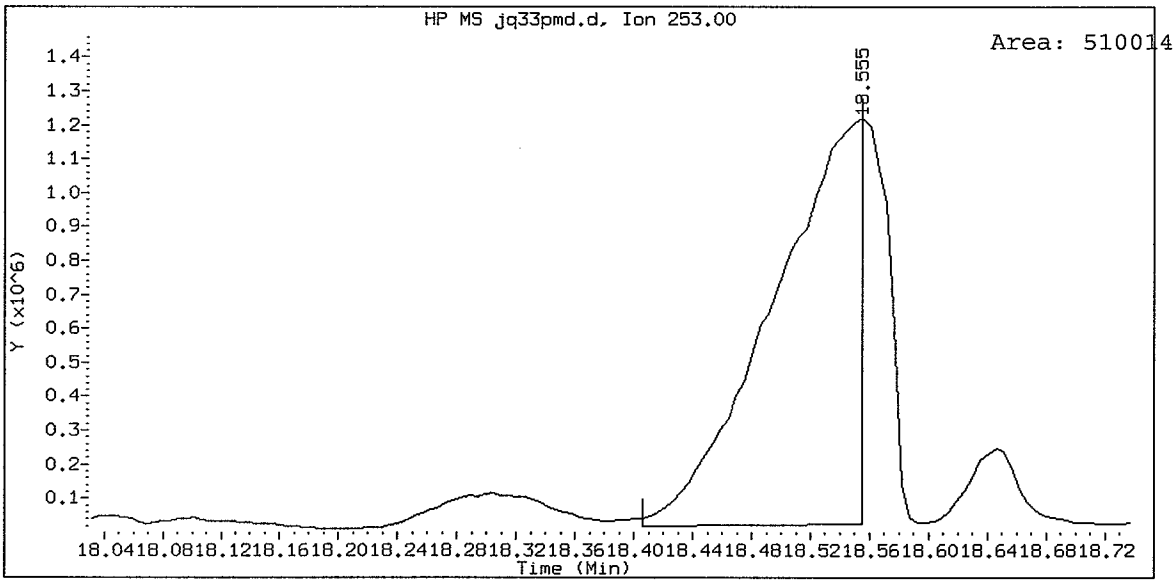


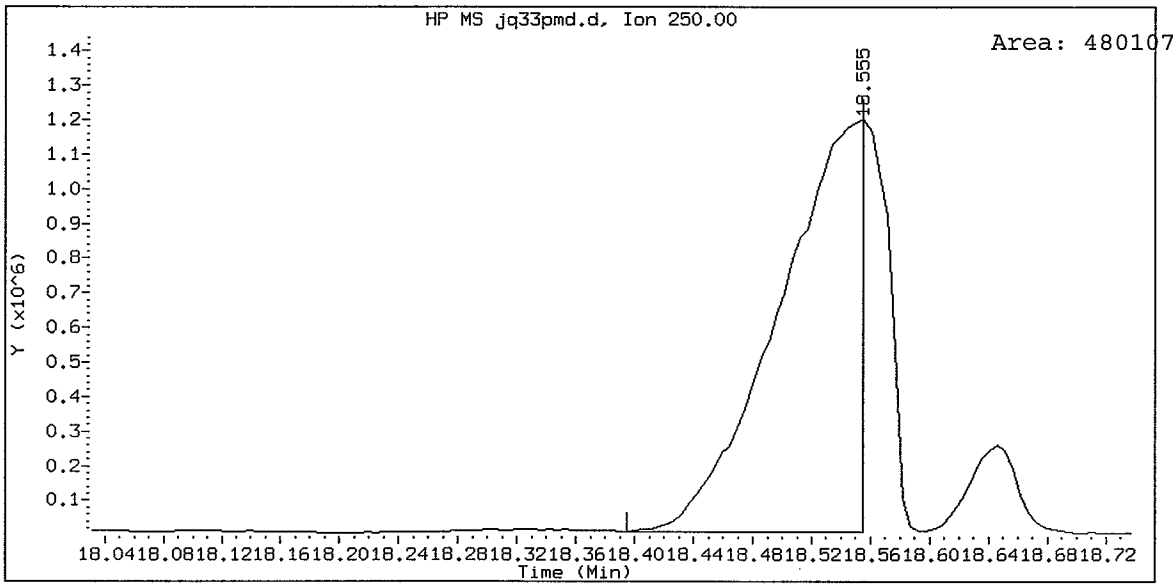




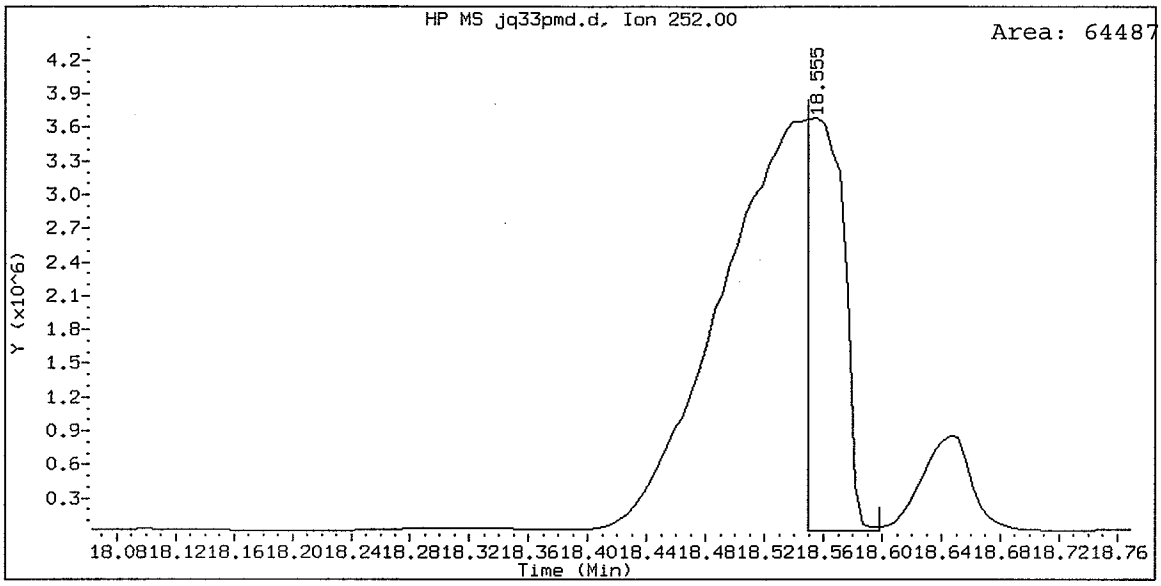
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Benzo(b)fluoranthene Amount: 454.22

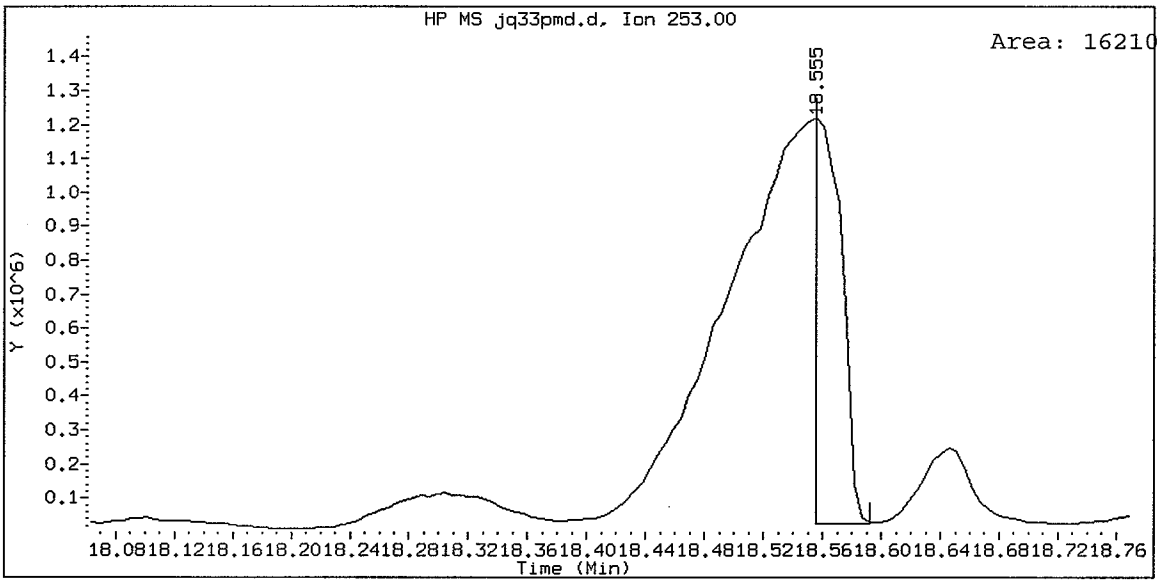


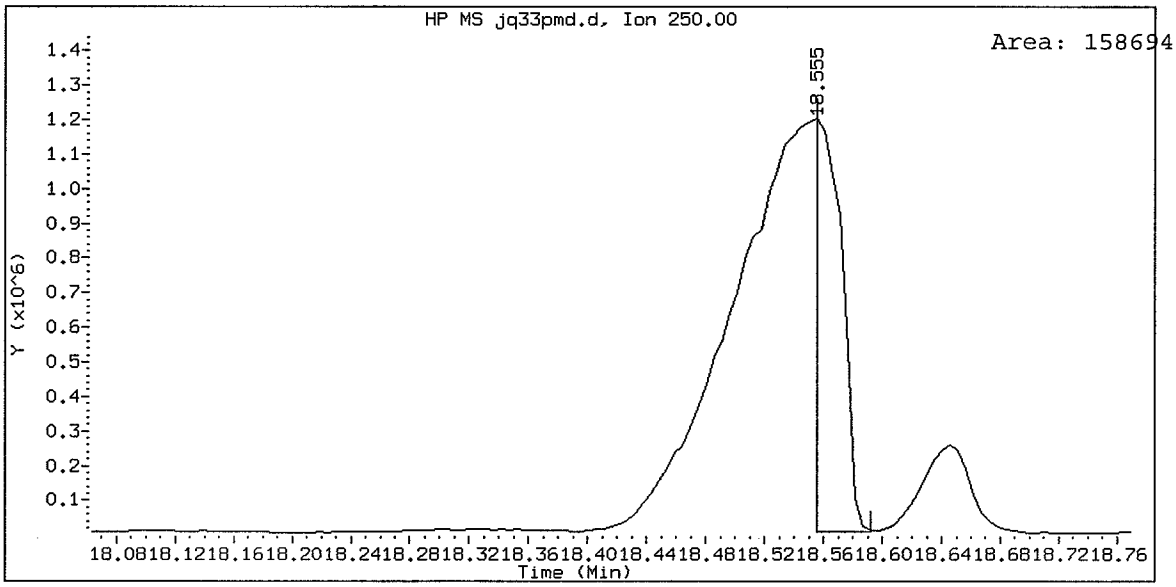




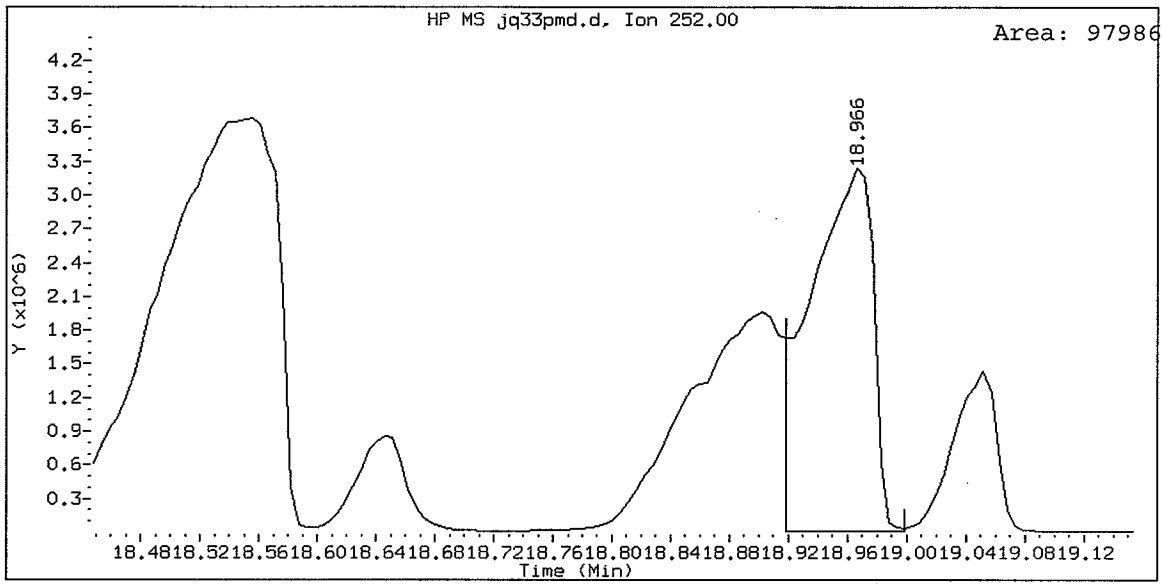
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Benzo(k)fluoranthene Amount: 184.87

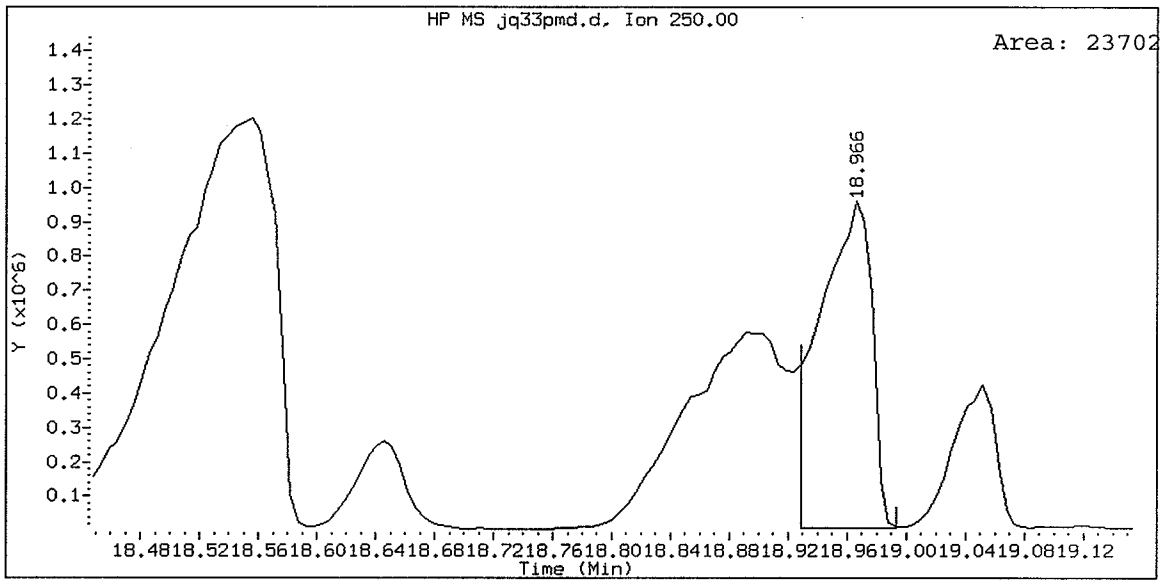


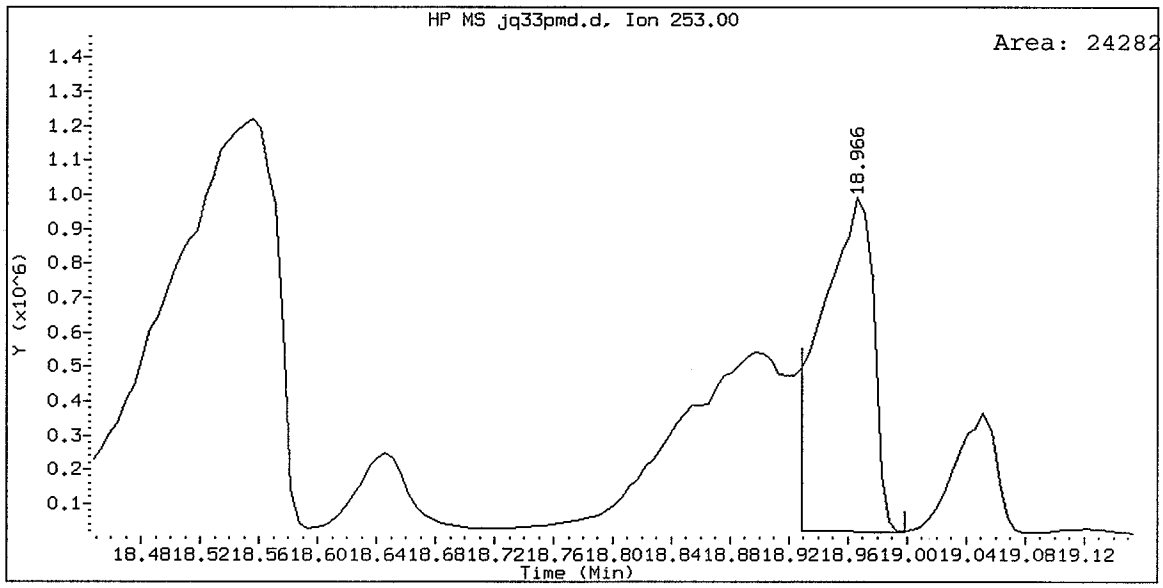




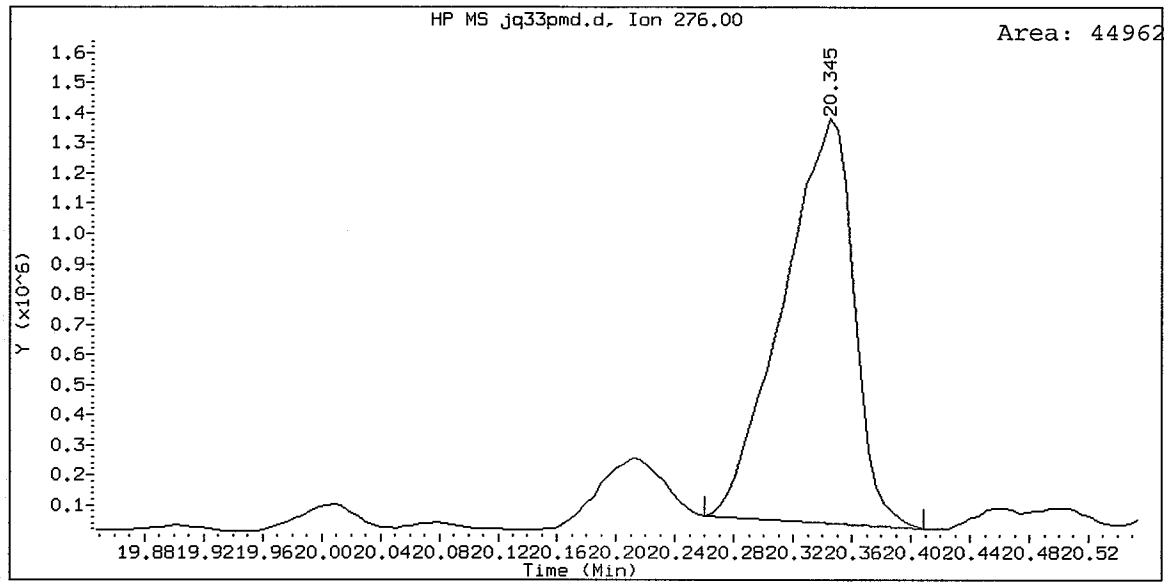
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Benzo(a)pyrene Amount: 301.78

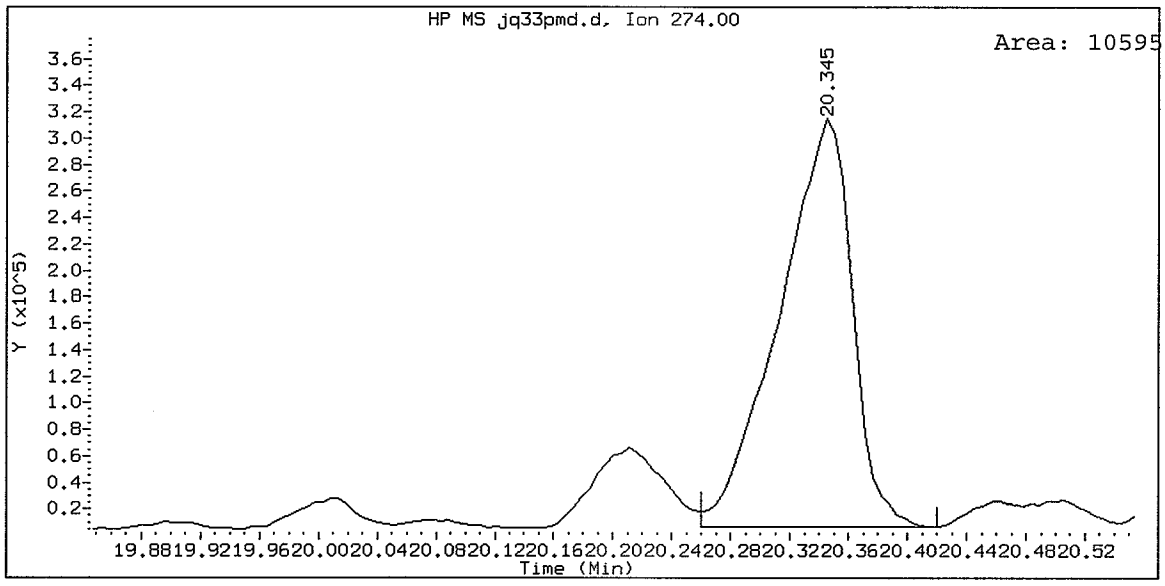


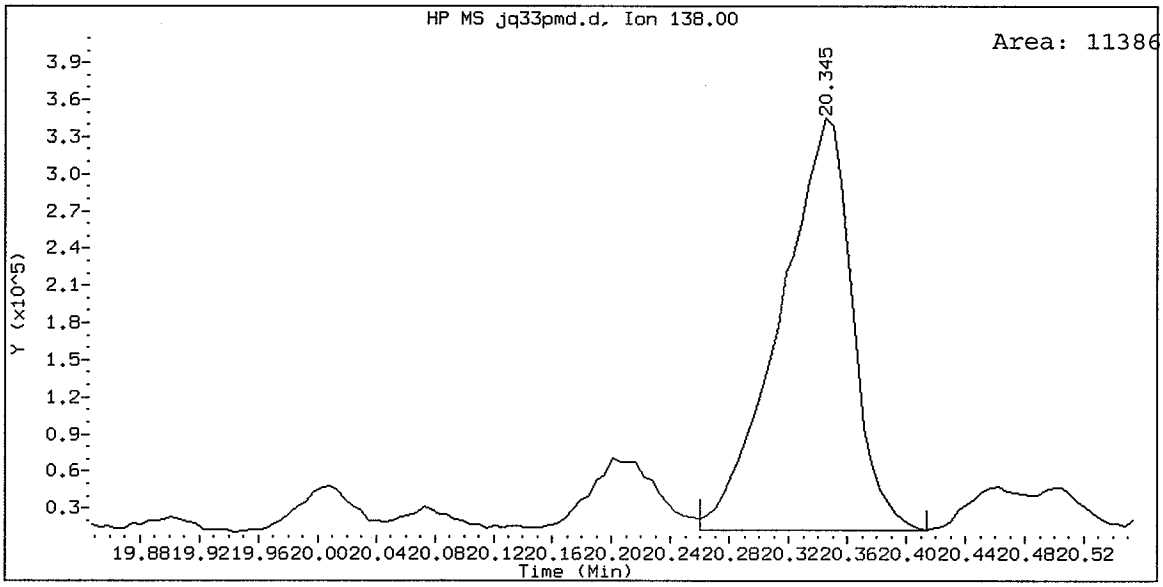




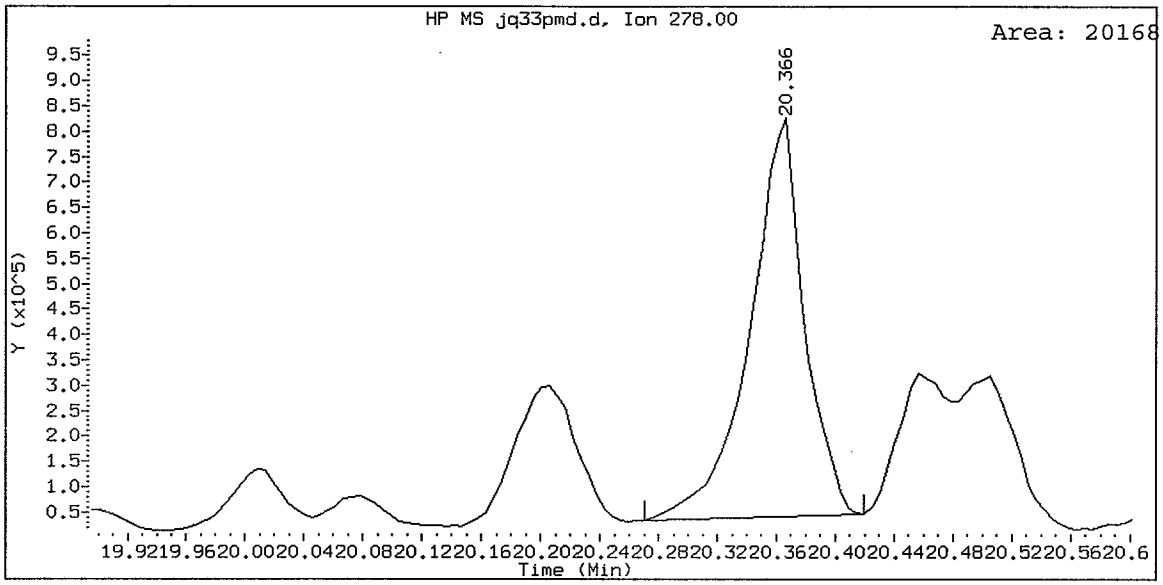
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Indeno(1,2,3-cd)pyrene Amount: 113.83

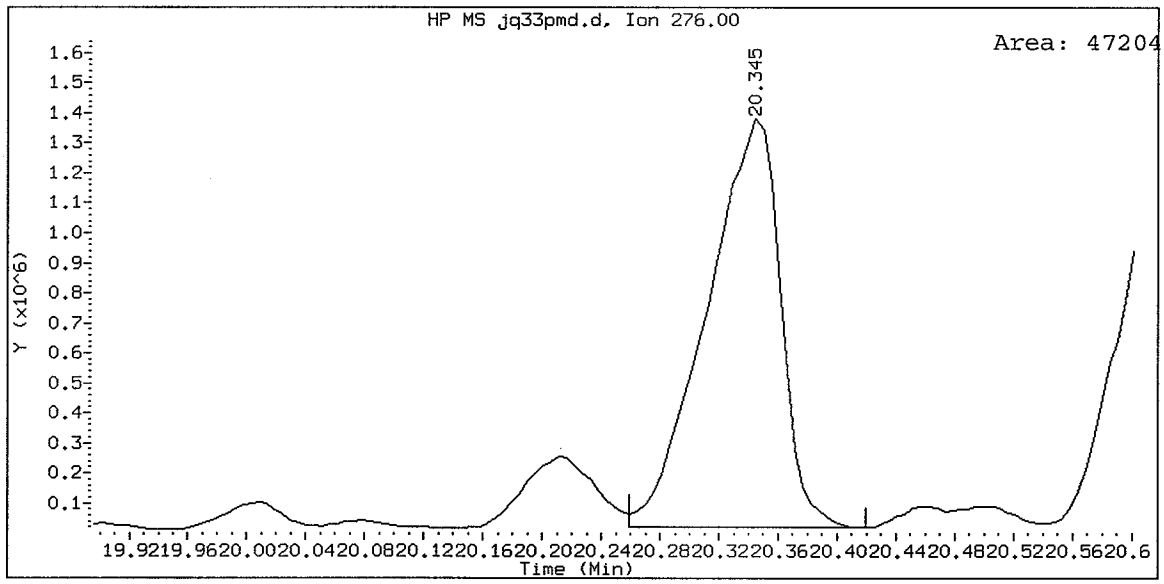


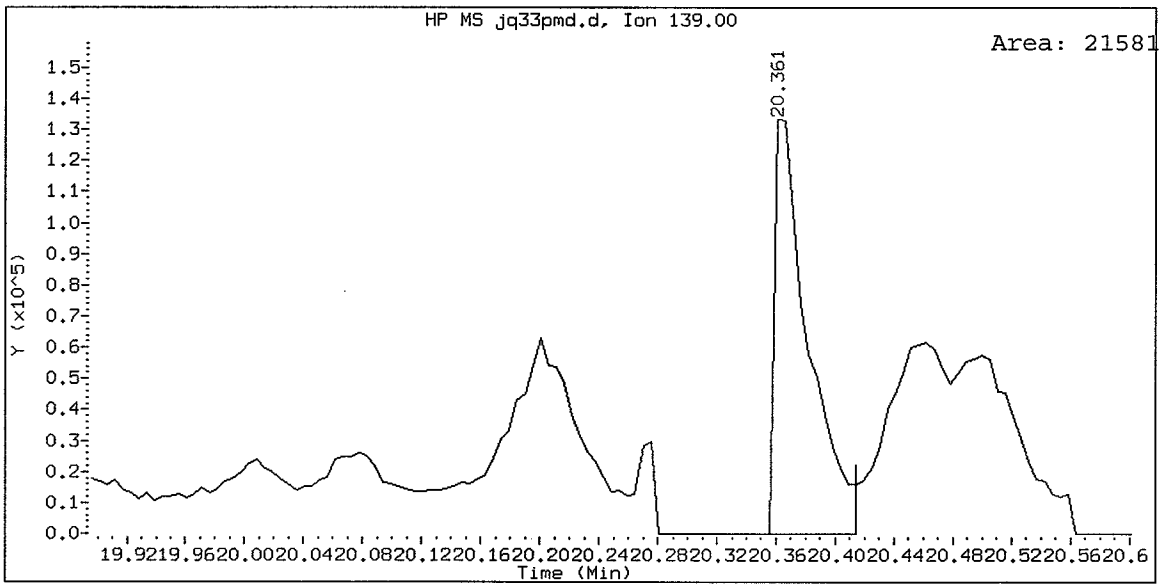




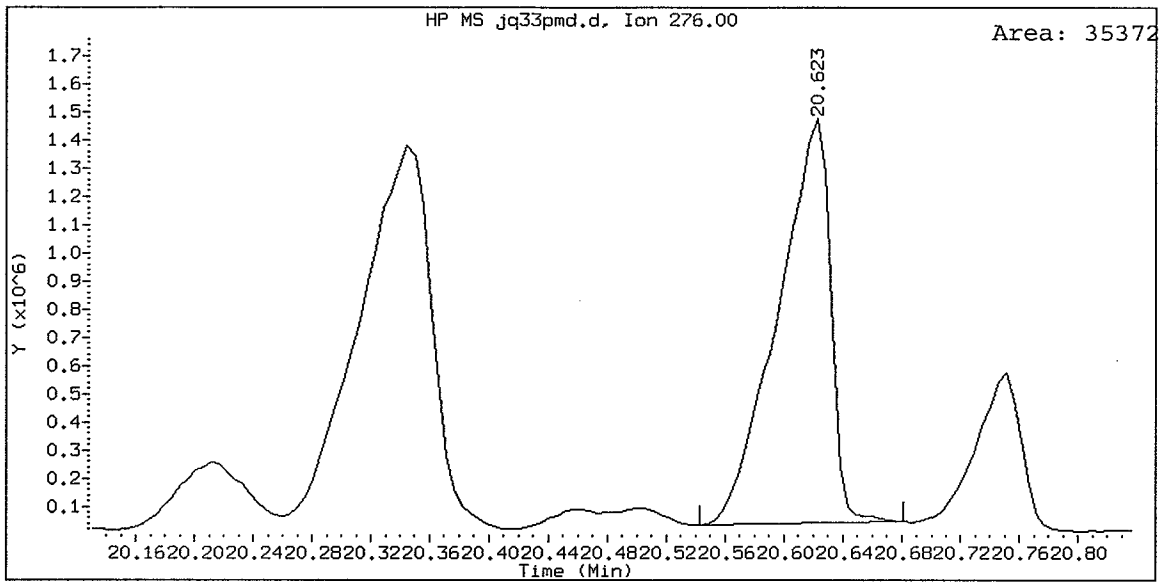
JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Dibenzo(a,h)anthracene Amount: 51.98

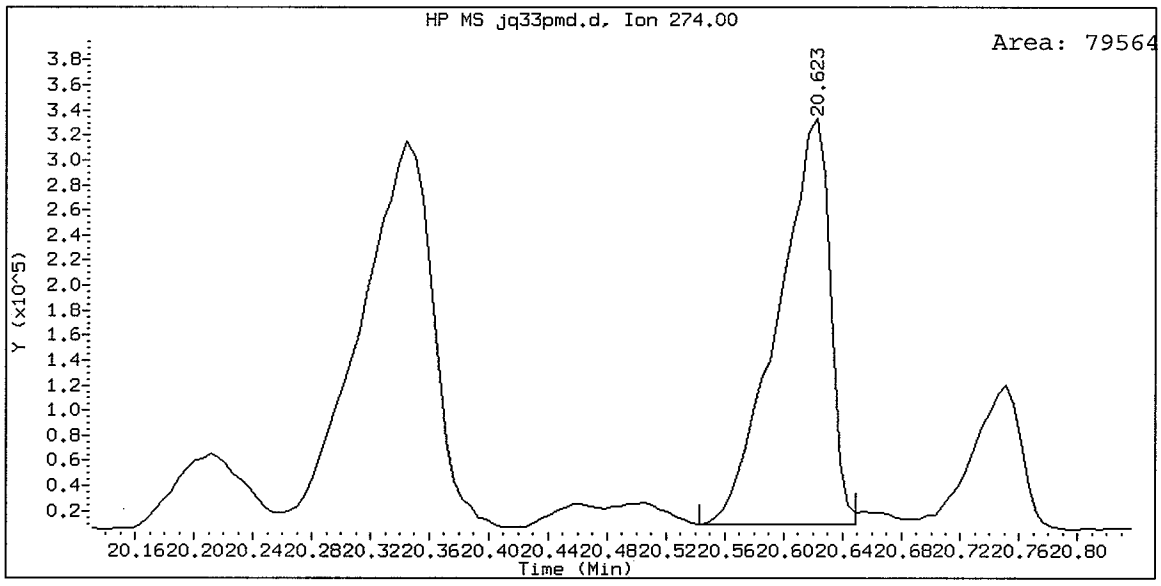


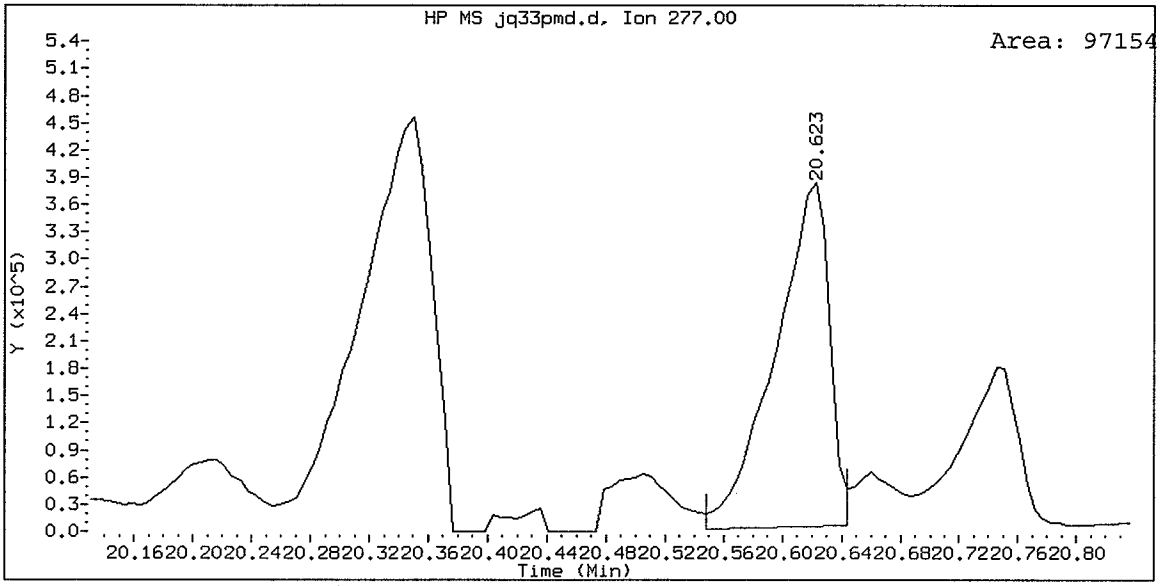




JQ33PMSD, /chem1/nt6.i/20060803.b/jq33pmd.d
Benzo(g,h,i)perylene Amount: 85.52







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060801.b/jq33sb.d
Lab Smp Id: JQ33LCSS1 Client Smp ID: JQ33LCSS1
Inj Date : 01-AUG-2006 14:00
Operator : LJR Inst ID: nt6.i
Smp Info : JQ33LCSS1
Misc Info : 06-12938
Comment : 1ul Injection
Method : /chem1/nt6.i/20060801.b/SW846.m
Meth Date : 01-Aug-2006 15:43 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 8/3/06

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	3.507	3.485	(0.632)	331490	23.4243	468.5
$	2 Phenol-d5	99	5.308	5.307	(0.956)	449947	26.2405	524.8
	3 Phenol	94	5.324	5.323	(0.959)	368325	17.2385	344.8
$	5 2-Chlorophenol-d4	132	5.276	5.275	(0.950)	329284	22.6478	453.0
	4 Bis(2-Chloroethyl)ether	93	5.297	5.302	(0.954)	264013	16.6070	332.1 (R)
	6 2-Chlorophenol	128	5.302	5.296	(0.955)	238577	16.2280	324.6
	7 1,3-Dichlorobenzene	146	5.484	5.483	(0.987)	227666	14.2459	284.9
*	8 1,4-Dichlorobenzene-d4	152	5.553	5.558	(1.000)	191781	20.0000	
	9 1,4-Dichlorobenzene	146	5.580	5.585	(1.005)	230440	14.0321	280.6
$	10 1,2-Dichlorobenzene-d4	152	5.853	5.852	(1.054)	127261	13.5782	271.6
	12 1,2-Dichlorobenzene	146	5.869	5.873	(1.057)	225271	14.2680	285.4
	11 Benzyl alcohol	108	5.933	5.938	(1.068)	156521	15.3759	307.5
	14 2,2'-oxybis(1-Chloropropane)	45	6.194	6.199	(1.115)	377361	19.3815	387.6
	13 2-Methylphenol	108	6.248	6.247	(1.125)	234013	16.6458	332.9
	17 Hexachloroethane	117	6.355	6.354	(1.144)	95855	13.7882	275.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
16	N-Nitroso-di-n-propylamine	70	6.419	6.424	(1.156)	222807	16.5592	331.2
15	4-Methylphenol	108	6.504	6.498	(1.171)	514122	35.4600	709.2
$ 18	Nitrobenzene-d5	82	6.515	6.520	(0.857)	280375	14.9566	299.1
19	Nitrobenzene	77	6.542	6.552	(0.861)	336219	16.3362	326.7 (R)
20	Isophorone	82	6.953	6.958	(0.915)	557959	17.2851	345.7
21	2-Nitrophenol	139	7.065	7.070	(0.930)	116200	15.3472	306.9
22	2,4-Dimethylphenol	107	7.300	7.310	(0.961)	222007	14.0569	281.1
23	Bis(2-Chloroethoxy)methane	93	7.412	7.417	(0.975)	308530	17.1565	343.1
24	Benzoic acid	105	7.567	7.647	(0.996)	112079	13.4455	268.9 (M)
25	2,4-Dichlorophenol	162	7.482	7.487	(0.985)	187141	16.2274	324.5
26	1,2,4-Trichlorobenzene	180	7.562	7.567	(0.995)	192759	14.4922	289.8
* 27	Naphthalene-d8	136	7.599	7.599	(1.000)	692469	20.0000	
28	Naphthalene	128	7.626	7.631	(1.004)	651652	15.4799	309.6
29	4-Chloroaniline	127	7.840	7.845	(1.032)	394621	23.2431	464.9
30	Hexachlorobutadiene	225	7.989	7.994	(1.051)	118406	14.1693	283.4
31	4-Chloro-3-methylphenol	107	8.737	8.742	(1.150)	228227	17.5175	350.4
32	2-Methylnaphthalene	141	8.737	8.742	(1.150)	397101	17.4410	348.8
33	Hexachlorocyclopentadiene	237	9.133	9.137	(0.879)	80267	14.9474	298.9
34	2,4,6-Trichlorophenol	196	9.293	9.298	(0.895)	145630	16.2535	325.1
35	2,4,5-Trichlorophenol	196	9.352	9.356	(0.900)	153006	16.4317	328.6
$ 36	2-Fluorobiphenyl	172	9.416	9.421	(0.906)	441358	14.6940	293.9
37	2-Chloronaphthalene	162	9.485	9.490	(0.913)	409038	15.5015	310.0
38	2-Nitroaniline	65	9.774	9.778	(0.941)	187971	17.4593	349.2
39	Dimethylphthalate	163	10.196	10.201	(0.981)	473067	16.8938	337.9
40	Acenaphthylene	152	10.132	10.136	(0.975)	661900	16.2231	324.5
41	2,6-Dinitrotoluene	165	10.260	10.265	(0.988)	106574	16.6946	333.9
* 42	Acenaphthene-d10	164	10.388	10.393	(1.000)	402276	20.0000	
43	3-Nitroaniline	138	10.447	10.446	(1.006)	226963	33.2647	665.3 (R)
44	Acenaphthene	153	10.436	10.441	(1.005)	464342	17.9756	359.5
45	2,4-Dinitrophenol	184	10.602	10.607	(1.021)	28469	22.9772	459.5
46	Dibenzofuran	168	10.698	10.703	(1.030)	604319	17.0033	340.1
47	4-Nitrophenol	109	10.869	10.879	(1.046)	62428	14.0603	281.2
48	2,4-Dinitrotoluene	165	10.853	10.858	(1.045)	138330	17.0794	341.6
50	Diethylphthalate	149	11.334	11.344	(1.091)	476435	17.6153	352.3
49	Fluorene	166	11.232	11.237	(1.081)	503449	17.4622	349.2
51	4-Chlorophenyl-phenylether	204	11.318	11.322	(1.089)	252573	16.6767	333.5
52	4-Nitroaniline	138	11.403	11.419	(1.098)	78527	13.1116	262.2 (M)
53	4,6-Dinitro-2-methylphenol	198	11.472	11.483	(0.905)	52937	14.8878	297.8
54	N-Nitrosodiphenylamine	169	11.537	11.541	(0.910)	361937	17.2422	344.8
$ 55	2,4,6-Tribromophenol	330	11.654	11.659	(1.122)	96472	24.9397	498.8
56	4-Bromophenyl-phenylether	248	12.065	12.070	(0.952)	148789	17.3435	346.9
57	Hexachlorobenzene	284	12.226	12.231	(0.964)	153028	17.0201	340.4
58	Pentachlorophenol	266	12.552	12.562	(0.990)	76591	15.6406	312.8
* 59	Phenanthrene-d10	188	12.680	12.679	(1.000)	611175	20.0000	
60	Phenanthrene	178	12.712	12.711	(1.003)	856355	21.0476	421.0
61	Anthracene	178	12.781	12.781	(1.008)	694402	17.0006	340.0
62	Carbazole	167	13.107	13.112	(1.034)	572821	17.4211	348.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	13.941	13.940	(1.099)	759647	19.2875	385.8
64	Fluoranthene	202	14.582	14.586	(1.150)	1072078	26.7259	534.5
65	Pyrene	202	14.907	14.912	(0.884)	1049975	30.9691	619.4
$ 66	Terphenyl-d14	244	15.324	15.329	(0.909)	431348	20.2369	404.7
67	Butylbenzylphthalate	149	16.264	16.275	(0.965)	257931	20.5026	410.1
68	Benzo(a)anthracene	228	16.841	16.846	(0.999)	747918	24.6074	492.1
* 69	Chrysene-d12	240	16.863	16.862	(1.000)	402497	20.0000	
70	3,3'-Dichlorobenzidine	252	16.932	16.932	(1.004)	270351	24.6648	493.3
71	Chrysene	228	16.895	16.900	(1.002)	734424	24.3159	486.3
72	bis(2-Ethylhexyl)phthalate	149	17.311	17.316	(0.950)	330594	22.3194	446.4
* 134	Di-n-octylphthalate-d4	153	18.230	18.235	(1.000)	586633	20.0000	
73	Di-n-octylphthalate	149	18.241	18.246	(1.001)	468080	16.7054	334.1 (R)
74	Benzo(b)fluoranthene	252	18.444	18.449	(0.974)	663770	30.3240	606.5
75	Benzo(k)fluoranthene	252	18.476	18.481	(0.975)	605243	26.7394	534.8 (M)
76	Benzo(a)pyrene	252	18.861	18.860	(0.996)	554631	26.3256	526.5
* 77	Perylene-d12	264	18.941	18.946	(1.000)	333412	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	20.260	20.270	(1.070)	497751	19.4202	388.4
79	Dibenzo(a,h)anthracene	278	20.308	20.319	(1.072)	440517	17.4969	349.9
80	Benzo(g,h,i)perylene	276	20.543	20.548	(1.085)	542043	20.1965	403.9
90	N-Nitrosodimethylamine	74	1.312	1.295	(0.236)	172878	16.7090	334.2
91	Aniline	93	5.131	5.136	(0.924)	587591	23.2928	465.9
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	1.306	1.284	(0.235)	216737	10.2257	204.5
105	1-methylnaphthalene	141	8.898	8.902	(1.171)	361029	15.1688	303.4
111	Azobenzene (1,2-DP-Hydrazine)	77	11.553	11.563	(1.112)	701666	17.8270	356.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq33sb.d
Lab Smp Id: JQ33LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060801.b/SW846.m
Misc Info: 06-12938

Calibration Date: 01-AUG-2006
Calibration Time: 11:57
Client Smp ID: JQ33LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	203506	101753	407012	191781	-5.76
27 Naphthalene-d8	730969	365484	1461938	692469	-5.27
42 Acenaphthene-d10	404762	202381	809524	402276	-0.61
59 Phenanthrene-d10	594244	297122	1188488	611175	2.85
69 Chrysene-d12	406863	203432	813726	402497	-1.07
134 Di-n-octylphthala	618730	309365	1237460	586633	-5.19
77 Perylene-d12	432016	216008	864032	333412	-22.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.56	5.06	6.06	5.55	-0.09
27 Naphthalene-d8	7.60	7.10	8.10	7.60	0.01
42 Acenaphthene-d10	10.39	9.89	10.89	10.39	-0.05
59 Phenanthrene-d10	12.68	12.18	13.18	12.68	0.00
69 Chrysene-d12	16.86	16.36	17.36	16.86	0.00
134 Di-n-octylphthala	18.24	17.74	18.74	18.23	-0.03
77 Perylene-d12	18.95	18.45	19.45	18.94	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ33LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20060801.b/SW846.m
Misc Info: 06-12938

Client SDG: JQ33
Fraction: SV
Client Smp ID: JQ33LCSS1
Operator: LJR
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	500.0	344.8	68.95	26-78
4	Bis(2-Chloroethyl)	500.0	332.1	66.43 *	68-113
6	2-Chlorophenol	500.0	324.6	64.91	48-111
7	1,3-Dichlorobenzen	500.0	284.9	56.98	42-93
9	1,4-Dichlorobenzen	500.0	280.6	56.13	44-88
11	Benzyl alcohol	500.0	307.5	61.50	52-115
12	1,2-Dichlorobenzen	500.0	285.4	57.07	44-97
13	2-Methylphenol	500.0	332.9	66.58	63-113
14	2,2'-oxybis(1-Chlo	500.0	387.6	77.53	53-121
15	4-Methylphenol	1000	709.2	70.92	55-119
16	N-Nitroso-di-n-pro	500.0	331.2	66.24	40-120
17	Hexachloroethane	500.0	275.8	55.15	36-91
19	Nitrobenzene	500.0	326.7	65.34 *	66-120
20	Isophorone	500.0	345.7	69.14	62-135
21	2-Nitrophenol	500.0	306.9	61.39	60-125
22	2,4-Dimethylphenol	500.0	281.1	56.23	50-104
23	Bis(2-Chloroethoxy	500.0	343.1	68.63	61-129
24	Benzoic acid	500.0	268.9	53.78	20-99
25	2,4-Dichlorophenol	500.0	324.5	64.91	62-127
26	1,2,4-Trichloroben	500.0	289.8	57.97	45-94
28	Naphthalene	500.0	309.6	61.92	53-111
29	4-Chloroaniline	1200	464.9	38.74	34-87
30	Hexachlorobutadien	500.0	283.4	56.68	37-96
31	4-Chloro-3-methylp	500.0	350.4	70.07	53-121
32	2-Methylnaphthalen	500.0	348.8	69.76	52-114
33	Hexachlorocyclopen	500.0	298.9	59.79	10-104
34	2,4,6-Trichlorophe	500.0	325.1	65.01	50-115
35	2,4,5-Trichlorophe	500.0	328.6	65.73	61-122
37	2-Chloronaphthalen	500.0	310.0	62.01	54-118
38	2-Nitroaniline	500.0	349.2	69.84	55-137
39	Dimethylphthalate	500.0	337.9	67.58	57-138
40	Acenaphthylene	500.0	324.5	64.89	56-125
41	2,6-Dinitrotoluene	500.0	333.9	66.78	59-140

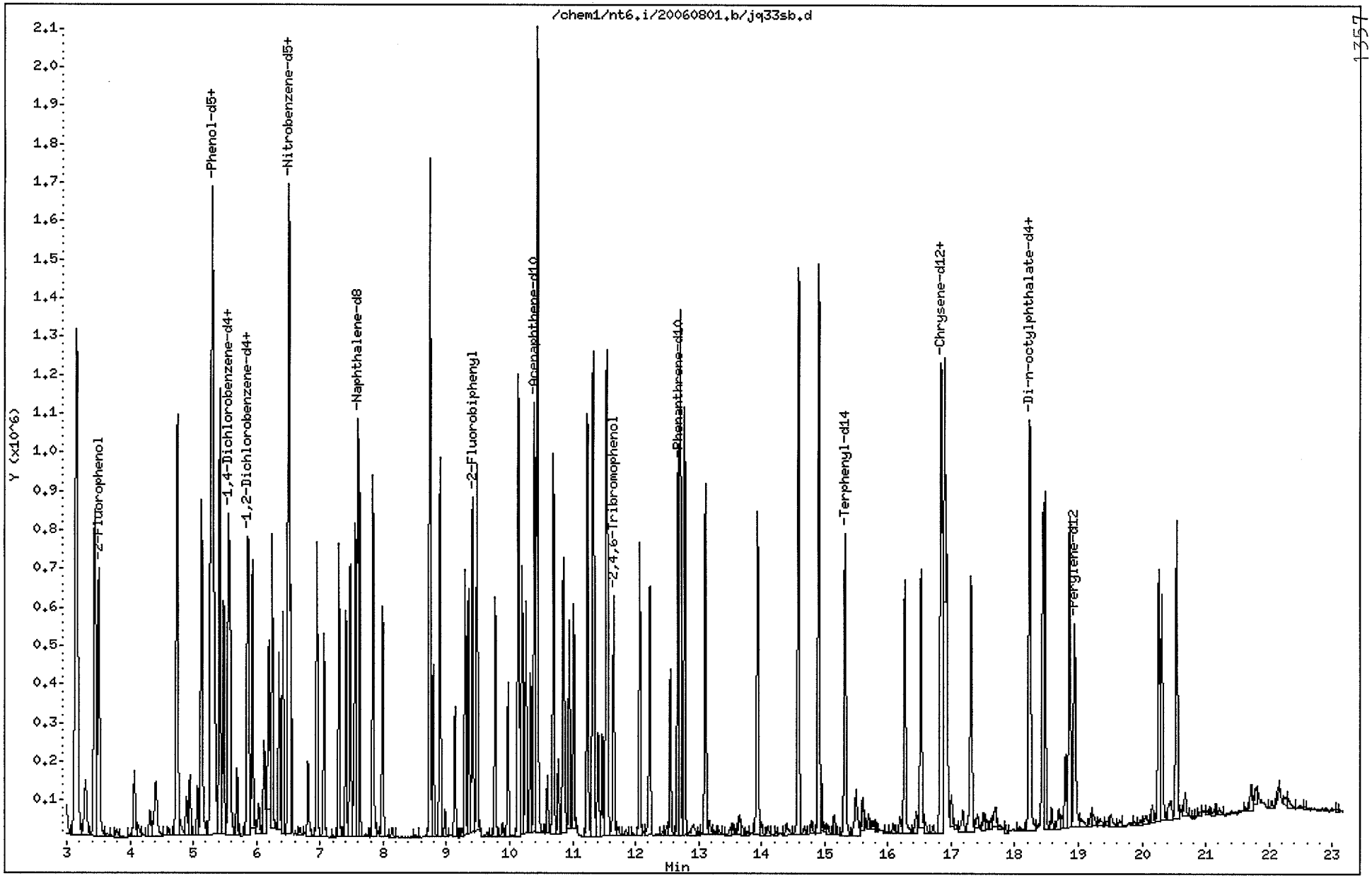
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43	3-Nitroaniline	1280	665.3	51.98*	60-99
44	Acenaphthene	500.0	359.5	71.90	47-114
45	2,4-Dinitrophenol	500.0	459.5	91.91	10-227
46	Dibenzofuran	500.0	340.1	68.01	54-126
47	4-Nitrophenol	500.0	281.2	56.24	14-96
48	2,4-Dinitrotoluene	500.0	341.6	68.32	45-128
49	Fluorene	500.0	349.2	69.85	52-139
50	Diethylphthalate	500.0	352.3	70.46	59-143
51	4-Chlorophenyl-phe	500.0	333.5	66.71	50-141
52	4-Nitroaniline	500.0	262.2	52.45	47-137
53	4,6-Dinitro-2-meth	500.0	297.8	59.55	10-182
54	N-Nitrosodiphenyla	500.0	344.8	68.97	56-142
56	4-Bromophenyl-phen	500.0	346.9	69.37	66-127
57	Hexachlorobenzene	500.0	340.4	68.08	66-126
58	Pentachlorophenol	500.0	312.8	62.56	42-125
60	Phenanthrene	500.0	421.0	84.19	58-135
61	Anthracene	500.0	340.0	68.00	59-132
62	Carbazole	500.0	348.4	69.68	57-144
63	Di-n-butylphthalat	500.0	385.8	77.15	59-151
64	Fluoranthene	500.0	534.5	106.90	56-145
65	Pyrene	500.0	619.4	123.88	44-130
67	Butylbenzylphthala	500.0	410.1	82.01	49-156
68	Benzo(a)anthracene	500.0	492.1	98.43	61-137
70	3,3'-Dichlorobenzi	1280	493.3	38.54	27-110
71	Chrysene	500.0	486.3	97.26	59-134
72	bis(2-Ethylhexyl)p	500.0	446.4	89.28	50-149
73	Di-n-octylphthalat	500.0	334.1	66.82*	68-124
74	Benzo(b)fluoranthe	500.0	606.5	121.30	58-141
75	Benzo(k)fluoranthe	500.0	534.8	106.96	50-148
76	Benzo(a)pyrene	500.0	526.5	105.30	60-132
78	Indeno(1,2,3-cd)py	500.0	388.4	77.68	43-156
79	Dibenzo(a,h)anthra	500.0	349.9	69.99	57-155
80	Benzo(g,h,i)peryle	500.0	403.9	80.79	48-153

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	750.0	468.5	62.46	42-87
$ 2	Phenol-d5	750.0	524.8	69.97	47-87
$ 5	2-Chlorophenol-d4	750.0	453.0	60.39	47-86
$ 10	1,2-Dichlorobenzen	500.0	271.6	54.31	43-82
$ 18	Nitrobenzene-d5	500.0	299.1	59.83	46-87
$ 36	2-Fluorobiphenyl	500.0	293.9	58.78	46-88
$ 55	2,4,6-Tribromophen	750.0	498.8	66.51	40-97

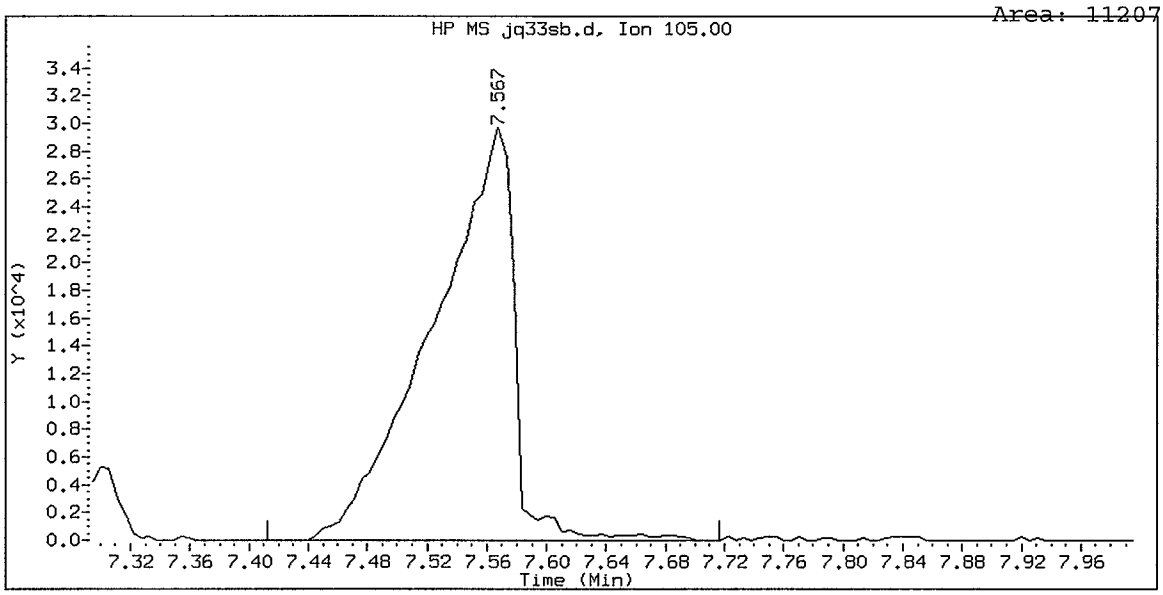
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	404.7	80.95	37-114

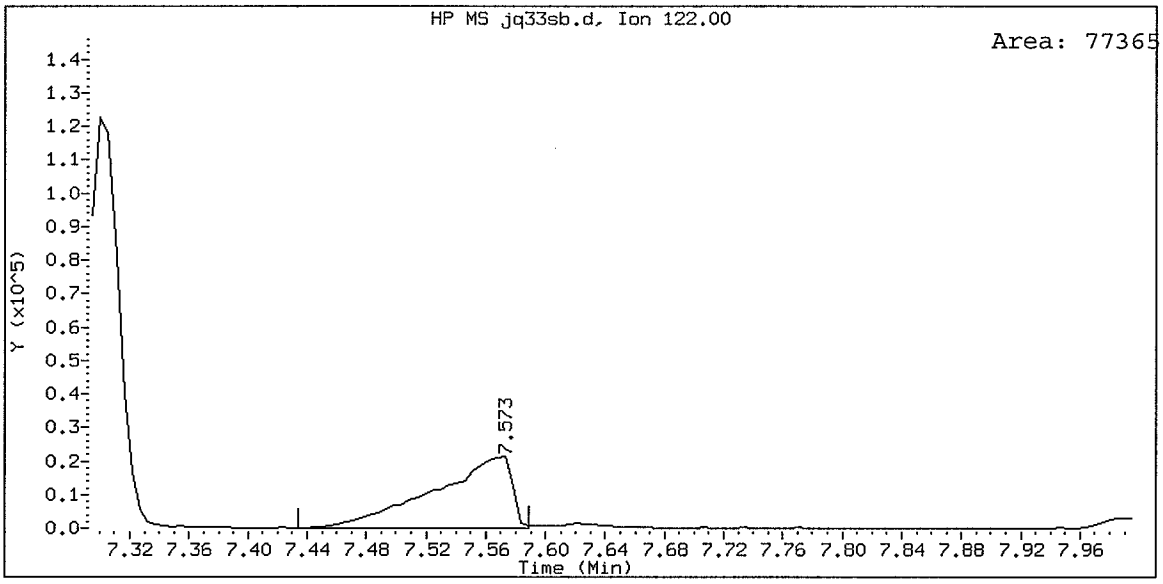
Data File: /chem1/nt6.i/20060801.b/jq33sb.d
Date : 01-AUG-2006 14:00
Client ID: JQ33LCSS1
Sample Info: JQ33LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

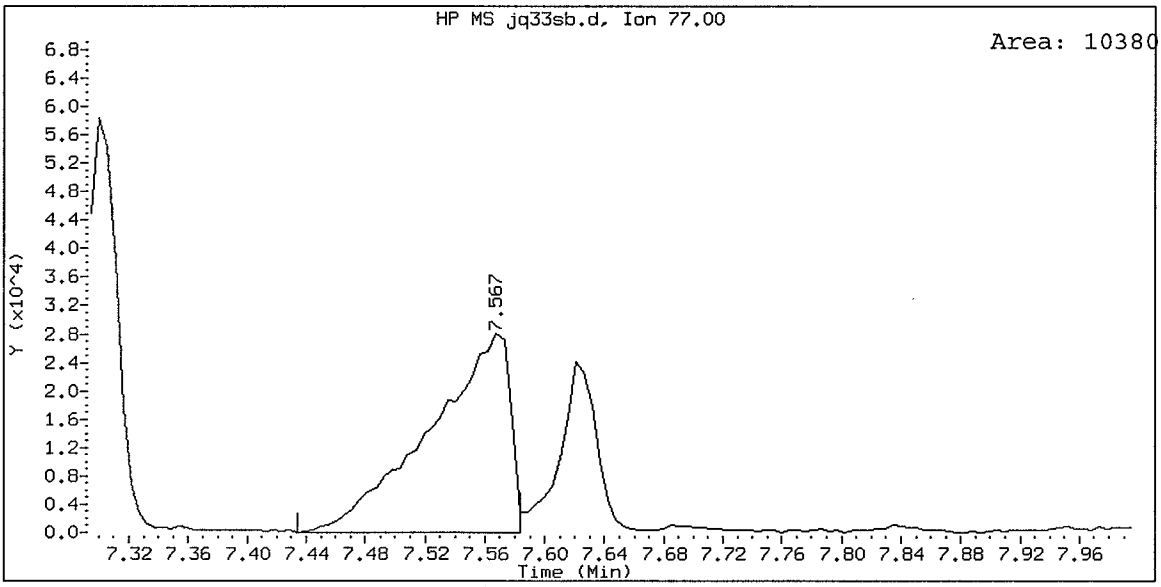
Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



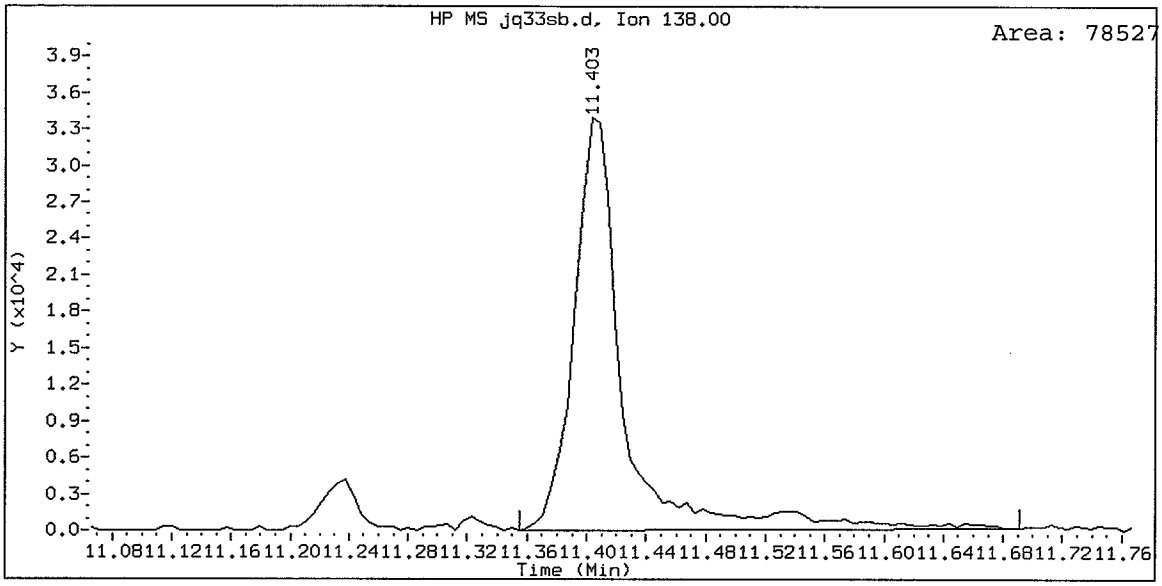
JQ33LCSS1, /chem1/nt6.i/20060801.b/jq33sb.d
Benzoic acid Amount: 13.45

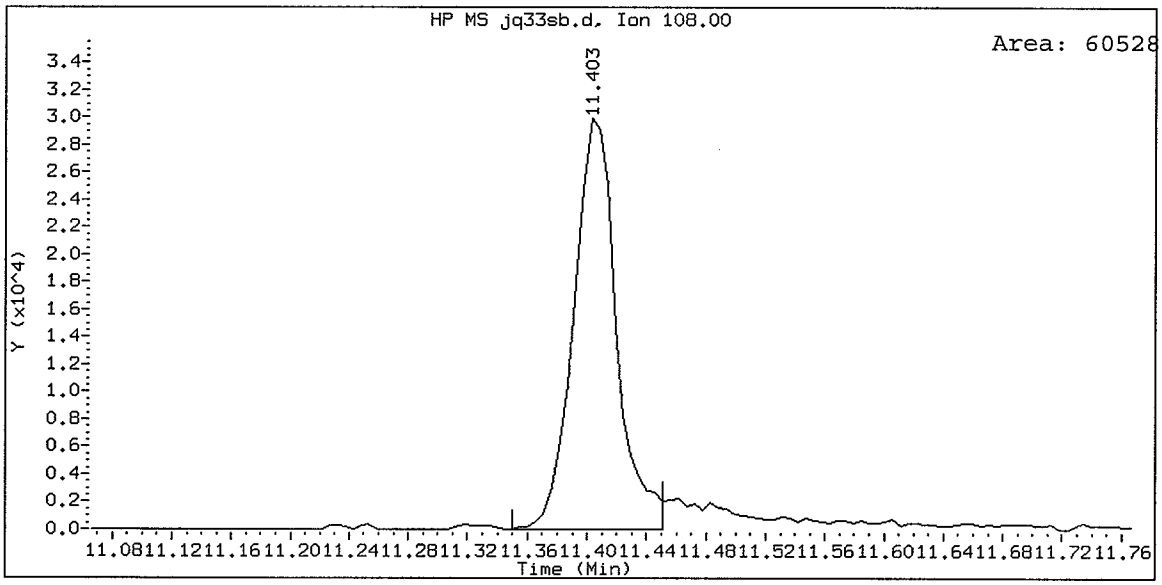


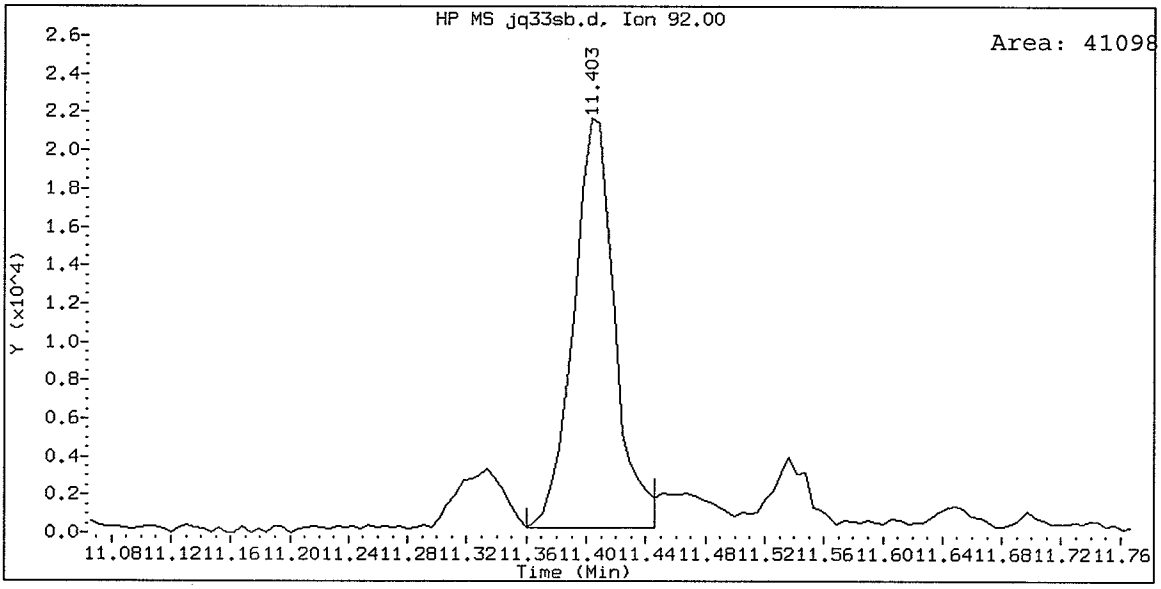




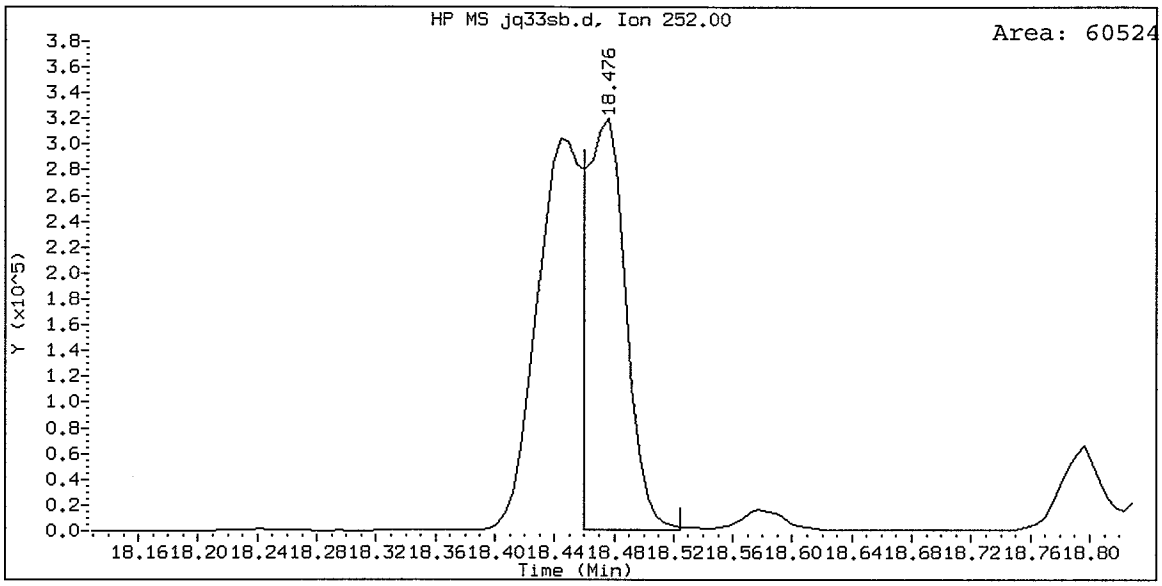
JQ33LCSS1, /chem1/nt6.i/20060801.b/jq33sb.d
4-Nitroaniline Amount: 13.11

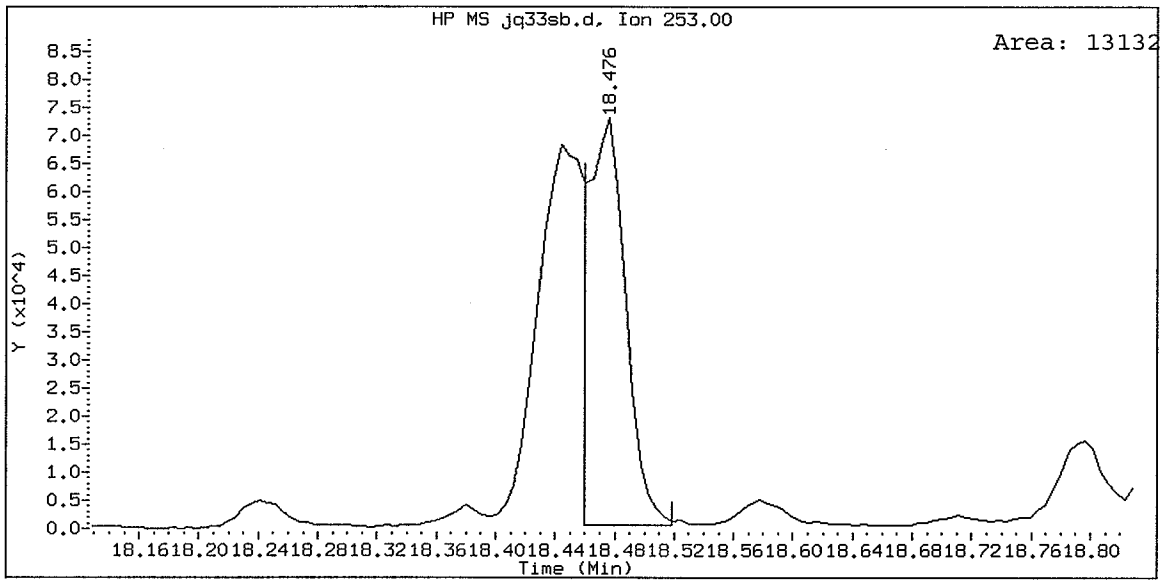


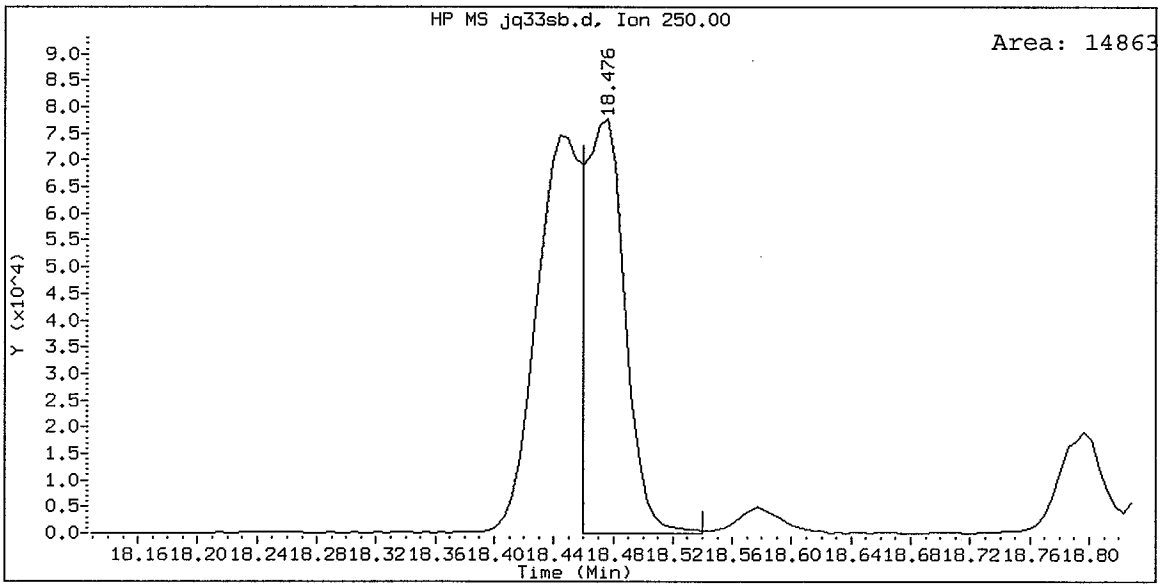




JQ33LCSS1, /chem1/nt6.i/20060801.b/jq33sb.d
Benzo(k)fluoranthene Amount: 26.74







Semivolatile Organics
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

QA. LIMs # _____
EXT LIMs # _____
Bid # SVG727B-01

(8270) BAN/Skydrol/Phenol – Soil/Sediment/Tissue
In House ____ /PSDDA X Medium Level ____
(3550B) Microtip X
(3550B) Macrotip ____ /Tissuemizer ____
Med.Shakeout ____
KD X
Turbovap X

ANALYTICAL RESOURCES INCORPORATED

Client Name: Anchal Environmental

ARI Job No(s): JQ33

Extraction Requirements (ARI Lab ID)	Sample Client ID	Amount Extracted	GPC Aliquot #1/#2	Silica-gel Aliquot Y / N	Final Effective Volume	Aliquot Volume For Analysis	Time Extracted 16:10 Comments
MB JQ33 MB	7/27	50.00	1.2		1ml	0.5ml	
SB: SB	↓	50.00					
A	duched	91.06					
B		97.02					
C		94.38					
D		100.12					
E		99.32					
F		97.34					
G		100.38					
H		101.42					
I		100.66					
J		105.34					
K		95.18					
L		99.72					
M		99.66	TH/27				
N		98.49					
O		33.14					
P		35.90					
PMS		35.24					
PMSD		35.50					
Q	↓	35.17	pc 1/15				
HH 7/27	Date/Analyst:				TH/27		

Surrogate Amount: 250 uL Added by: HH /Spk. Witness LW
Concentration: 100/150 ng/ml ID: 1405-315

Spike Amount: 250 uL Added by: HH /Spk. Witness LW
Concentration: 200 ng/ml ID: 1403-03

Xtra Spike Amount: 250 uL Added by: HH /Spk.Witness LW
Concentration: 200 ng/ML ID: 1407-04A

(DCM)solvent ID: I2965
(1:1DCM/Acetone) Reagent ID: I-979
(95:5DCM/Hexane) Reagent ID:
Neutral glasswool ID: 3/17/06
0.05% HCL/acetone Reagent ID: I452
Na2So4 ID: 7/19/06
3% Silica gel ID:
8:2:9Ether/Meoh/DCM ID:
95:5Ether/DCM ID:

3009F Revision 8 07/29/03

SA. 250 uL Added HH w LW
C. 200 ng/mL ID 1405-01

SA. 250 uL added HH w LW
C. 200 ng/ml ID 1304-04

2938

ANALYTICAL RESOURCES INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JQ33 Client Name: Anchor

Parameter: BAN PSDDA Client Project: T4 Early Action

3545 SOP Number(s) ☐ No Anomalies

List problems, corrective actions, and any other pertinent information:

Insufficient volume received for QC on specified Sample. Chose a sample with less volume required as per project manager. TH 7/27/06

MB/A/B/C - Added a 1.5mL Rinse on GPC
D-M - Added a 1.0mL Rinse on GPC TH 7/28

JQ33 PMSD - was hexane exchanged after GPC by mistake. Extract was blown down and vialed as quickly as possible. Brian B. was notified. SP 7/31/06

Extraction Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: JQ33 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) (**804S**(8270D) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 NT-4 (NT-6)

Curve Date: 7/5/06 Analysis Start Date: 8/1/06

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	YES / (NO)
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	(YES) / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / (NO)		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- Including 1x runs of A, M, N, O, P, Q for troughs. Runs show chromatographic overload & IS problems.
- Phthalates in MB. "B" flagging sample hits. Phthalates only required
- 8/1/06 - Perylene-d12 IS out in C, H, L. Chrysene-d12 IS out in C, as is DNOP IS.
- 8/3/06 - Chrysene-d12 & Perylene-d12 ISs out in A, M, N, O, P, and Q. Perylene-d12 IS out in PMS. Reporting P @ 3x and MS/MSD set @ 1x for recoveries.

LJK 8/10/06

Many samples overloading (Column theoretical Plates) See some expanded of included.

* PS - Due to large analyte hits chromatography was sketchy. Integrating to the best of my ability... Theoretically looking only for phthalates.

Additional Details on Reverse: Yes / (No)

Analyst Signature: Jeff Roberson **Date:** 8/10/06

Reviewer's Signature: [signature] **Date:** 8/10/06

Analytical Resources,Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 7/27/06 Initial Run Number: 1

Analyst: TH

Loop Number	ARI Lab ID	Aliquot Loaded
1	ACETone	1:1 (10ML)
2	DCM	1:1 (10ML)
3	J033 MBS	1:2 (4ML)
4	A	
5	B	
6	C	
7	D	
8	E	
9	F	
10	G	
11	H	
12	I	
13	J	
14	K	
15	L	
16	M	
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.9 mL/min
(Average of two measurements)

Method

	BAN program	PCB Program
Dump	29	
Collect	61	
Wash	67	

Stop Time: 67.15

Analyst: TH

Lab Temp 23.2°C (64 - 77F)

Collection Line Witness: PC

Before Run

After Run

Analytical Resources,Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 7/28/06 Initial Run Number: 1

Analyst: PC

Loop Number	ARI Lab ID	Aliquot Loaded
1	Acetone	1:1 (10mL)
2	DCM	1:1 (10mL)
3	JQ33 N	1:2 (4mL)
4	O	
5	P	
6	Q	
7	sbs	
8	Pms	
9	Pmsd	
10	DCM	1:1 (10mL)
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.8 mL/min
(Average of two measurements)

Method

BAN program		PCB Program
29	Dump	
61	Collect	
67	Wash	

Stop Time: 67.15

Analyst: PC

Lab Temp 22.7°C (64 - 77°F)

Collection Line Witness [signature] Before Run After Run

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 7-29-06 Initial Run Number: 1

Analyst: _____

Loop Number	ARI Lab ID	Aliquot Loaded
1	Acetone Rinse	1:1 (5mL)
2	DCM Rinse	1:1 (5mL)
3	JQ33 Pm5D	1:2 (4mL)
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.8 mL/min
(Average of two measurements)

Method

	BAN program	PCB Program
Dump	29	
Collect	61	
Wash	67	

Stop Time: 67.15

Analyst: SD

Lab Temp 22.6 °C (64 - 77°F)

Collection Line Witness — Before Run: _____ After Run: SH

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Client SDG: 20060710
Sample Matrix: NONE
Fraction: SV
Lab Smp Id: GPC1 CAL
Level:
Operator: LJR
Data Type: MS DATA
SampleType: LCS
SpikeList File: GPC.spk
Quant Type: ISTD
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060710.b/SW846.m
Misc Info:

	SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	37.50	24.26	64.71	
6	2-Chlorophenol	37.50	23.43	62.48	
9	1,4-Dichlorobenzen	25.00	15.58	62.30	
16	N-Nitroso-di-n-pro	25.00	15.98	63.90	
26	1,2,4-Trichloroben	25.00	15.76	63.04	
31	4-Chloro-3-methylp	37.50	26.82	71.53	
44	Acenaphthene	25.00	17.96	71.85	
47	4-Nitrophenol	37.50	28.02	74.73	
48	2,4-Dinitrotoluene	25.00	18.14	72.56	
58	Pentachlorophenol	37.50	27.62	73.64	
65	Pyrene	25.00	21.65	86.60	
73	Di-n-octylphthalat	25.00	19.09	76.37	
80	Benzo(g,h,i)peryle	25.00	16.89	67.55	

	SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	37.50	23.34	62.25	
$ 2	Phenol-d5	37.50	26.14	69.70	
$ 5	2-Chlorophenol-d4	37.50	25.15	67.06	
$ 10	1,2-Dichlorobenzen	25.00	15.90	63.58	
$ 18	Nitrobenzene-d5	25.00	17.74	70.94	
$ 36	2-Fluorobiphenyl	25.00	18.27	73.09	
$ 55	2,4,6-Tribromophen	37.50	29.71	79.23	
$ 66	Terphenyl-d14	25.00	24.08	96.31	

Analytical Resources Inc.: Organics Instrument Log
NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 7/5/06 Analysis: BANS Analyst: LJK

GC Program: ABN1UC Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1765

Calibration File: 0250705 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	1340-1,2
	1375-1,2	1341-1
	1396-2	

	Time	Filename	LabID	ClientId	DF											
1	1016	0250705.d	ABN 25		1	6.47	200696	8.49	684917	11.32	379750	13.65	559641	17.90	488455	20.02	578815	19.18	797584
2	1046	0800705.d	ABN 80		1	6.49	194774	8.51	671389	11.32	363843	13.66	549021	17.91	515271	20.03	651976	19.18	826407
3	1117	0010705.d	ABN 1		1	6.47	186931	8.49	635059	11.31	353572	13.65	519227	17.90	422891	20.02	558463	19.17	753636
4	1147	0400705.d	ABN 40		1	6.48	188586	8.50	643563	11.32	353561	13.65	521831	17.90	459052	20.02	520114	19.18	750624
5	1218	0050705.d	ABN 5		1	6.47	187970	8.49	649831	11.31	355016	13.65	526410	17.89	428642	20.02	537760	19.17	728345
6	1249	0100705.d	ABN 10		1	6.48	184947	8.49	638713	11.32	351204	13.65	512120	17.90	415649	20.02	494060	19.17	689842
7	1320	icv0705.d	ABN ICV		1	6.47	190508	8.49	650128	11.31	364760	13.65	536565	17.90	444271	20.02	493568	19.18	726904

LJK 7/6/06

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250705

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8.1.2006 Analysis: ABN's Analyst: LJR/VTS

GC Program: ABN/uL Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1835

Calibration File: CC0801 Curve Date: 7.5.2006

IS/SS	Ical/Ccal	LCS/ICV
(1402-02)	1374-3	1340-1,2
	1375-1,2 1396-2	1341-1

TERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt6.i/20060801.b

Time	Filename	LabID	ClientId	DF												
1157	cc0801.d	ABN 25		1	5.56	203506	7.60	730969	10.39	404762	12.68	594244	16.86	406863	18.24	618730	18.95	432016
1228	jq90mb.d	JQ90MBS1	JQ90MBS1	1	5.55	181881	7.60	651894	10.38	372065	12.67	568200	16.85	420692	18.23	636620	18.94	403069
1259	jq90sb.d	JQ90LCSS1	JQ90LCSS1	1	5.56	190071	7.60	687707	10.39	386379	12.68	576130	16.86	398489	18.23	589191	18.94	384370
1329	jq33mb.d	JQ33MBS1	JQ33MBS1	1	5.56	186988	7.59	671366	10.39	381137	12.67	580853	16.85	379965	18.23	519306	18.94	287496
1400	jq33sb.d	JQ33LCSS1	JQ33LCSS1	1	5.55	191781	7.60	692469	10.39	402276	12.68	611175	16.86	402497	18.23	586633	18.94	333412
1430	jq90a.d	JQ90A	Y2-SC01-S	1	5.56	202828	7.59	717441	10.39	400821	12.67	561823	16.86	377433	18.24	568574	18.95	419784
1500	jq90ams.d	JQ90AMS	Y2-SC01-S MS	1	5.56	206330	7.59	727541	10.39	409241	12.67	588709	16.86	395844	18.23	618398	18.95	431419
1531	jq90amd.d	JQ90AMSD	Y2-SC01-S MSD	1	5.56	201075	7.59	715044	10.39	413800	12.67	609912	16.86	412527	18.24	644041	18.95	447152
1602	jq90b.d	JQ90B	Y2-SC02-S	1	5.56	191635	7.59	677442	10.39	378519	12.68	546928	16.89	770005	18.28	1148450	19.01	924528
1632	jq33a.d	JQ33A	T4-B414-01-A	1	5.57	207291	7.60	702213	10.40	388806	12.71	624042	17.01	795533	18.29	1118139	19.12	871075
1703	jq33b.d	JQ33B	T4-B414-01-B	1	5.56	209166	7.60	728250	10.39	400741	12.69	577143	16.90	674418	18.26	967389	19.01	750807
1734	jq33c.d	JQ33C	T4-B414-01-C	1	5.56	208149	7.60	732796	10.39	405653	12.69	634718	16.90	858392	18.27	1275292	19.01	976453
1804	jq33d.d	JQ33D	T4-B414-02-A	1	5.56	209698	7.60	724654	10.39	405485	12.68	615956	16.89	700072	18.26	1032998	18.99	777493
1835	jq33e.d	JQ33E	T4-B414-02-B	1	5.56	231165	7.60	817678	10.39	463151	12.68	696083	16.88	685205	18.25	1011424	18.97	749012
1906	jq33f.d	JQ33F	T4-B414-02-C	1	5.57	233847	7.60	831962	10.39	469368	12.69	722457	16.92	813674	18.28	1118797	19.03	893089
1936	jq33g.d	JQ33G	T4-B414-03-A	1	5.57	236916	7.60	859783	10.39	484838	12.69	726901	16.90	768703	18.26	1075931	19.00	871818
2007	jq33h.d	JQ33H	T4-B414-03-B	1	5.56	247119	7.60	874788	10.39	493851	12.69	746358	16.89	771107	18.26	1102704	18.99	877156
2038	jq33i.d	JQ33I	T4-B414-03-C	1	5.56	219991	7.60	785969	10.39	440645	12.68	662910	16.88	735292	18.26	1104782	18.98	831006
2108	jq33j.d	JQ33J	T4-B414-04-A	1	5.57	255015	7.60	886187	10.39	485335	12.69	711563	16.88	749534	18.25	1135631	18.98	855832
2139	jq33k.d	JQ33K	T4-B414-04-B	1	5.56	236432	7.60	830129	10.39	467378	12.68	667128	16.88	586685	18.25	846499	18.97	663098
2210	jq331.d	JQ33L	T4-B414-04-C	1	5.56	267122	7.60	950873	10.39	529095	12.68	778809	16.88	771108	18.25	1127809	18.98	872188
2241	jq33m.d	JQ33M	T4-S3-01-D	1	5.56	262083	7.60	936235	10.40	531676	12.72	942224	17.05	1076745	18.30	1572769	19.16	987090
2311	jq33n.d	JQ33N	T4-S3-01-E	1	5.56	213991	7.61	778224	10.41	456290	12.74	842031	17.14	724899	18.34	991427	19.26	403159

Maintenance / Comments New liner / low septum / Chopped Column / Cleaned split sal

ID = IS > 200% Area

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0801

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

8.2.06 VTS

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/31/06 Analysis: BANS Analyst: LJK

GC Program: ABN1UL Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1835

Calibration File: cc0803 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	
	1375-1,2	
	1396-2	

	Time	Filename	LabID	ClientId	DF													
1	0718	cc0803.d	ABN 25	ABN CCAL	1	5.49	174091	7.54	604851	10.33	360439	12.62	578581	16.80	569907	18.18	833015	18.88	596448
2	0749	jq99sb.d	JQ99LCSW1		1	5.50	210470	7.55	753153	10.34	456496	12.62	741276	16.80	726627	18.18	1038198	18.88	758799
3	0820	jq90bd1.d	JQ90B	Y2-SC02-S	3	5.50	189890	7.54	627283	10.33	382425	12.62	623529	16.81	961128	18.19	1592869	18.91	1442207
4	0851	jq33ad1.d	JQ33A	T4-B414-01-A	5	5.50	176883	7.55	606589	10.34	379131	12.62	676941	16.83	1247695	18.20	1335277	18.93	1344619
5	0921	jq33cd1.d	JQ33C	T4-B414-01-C	5	5.50	192259	7.55	653767	10.33	392550	12.62	638614	16.81	800434	18.18	1198104	18.89	1097973
6	0952	jq33md1.d	JQ33M	T4-S3-01-D	5	5.50	186060	7.55	636326	10.33	387957	12.63	734904	16.85	1489837	18.20	1495751	18.95	1536380
7	1022	jq33hd1.d	JQ33H	T4-B414-03-B	5	5.50	180324	7.54	618703	10.34	376019	12.62	595437	16.81	722704	18.18	1029161	18.90	931819
8	1053	jq33nd1.d	JQ33N	T4-S3-01-E	5	5.50	180299	7.55	621736	10.34	379941	12.64	763968	16.88	2035591	18.22	1815121	19.00	1831887
9	1123	jq33od1.d	JQ33O	T4-S3-01-F	5	5.50	190873	7.54	650184	10.34	391393	12.63	725631	16.86	1720845	18.21	1552168	18.97	1573022
10	1154	jq33pd1.d	JQ33P	T4-S3-01-G	5	5.50	191525	7.54	667645	10.34	404754	12.63	686643	16.84	1361791	18.21	1372600	18.95	1533212
11	1224	jq33qd1.d	JQ33Q	T4-S3-01-H	5	5.50	182482	7.55	626979	10.34	373400	12.63	690529	16.89	1919930	18.22	1654910	19.00	1753468
12	1255	jq33o.d	JQ33O	T4-S3-01-F	1	5.50	176285	7.55	612046	10.34	380902	12.68	1097905	17.04	1618832	18.25	1795712	19.14	733973
13	1326	jq33p.d	JQ33P	T4-S3-01-G	1	5.51	160473	7.55	554217	10.35	350272	12.67	908442	16.98	1456488	18.26	1505912	19.10	608748
14	1357	jq33pms.d	JQ33PMS	T4-S3-01-G MS	1	5.50	135532	7.55	474510	10.35	304015	12.68	739748	17.08	797955	18.26	972926	19.16	247388
15	1427	jq33pmd.d	JQ33PMSD	T4-S3-01-G MSD	1	5.50	140806	7.55	483695	10.34	306830	12.65	600698	16.92	943123	18.23	996580	19.01	513834
16	1457	jq33q.d	JQ33Q	T4-S3-01-H	1	5.50	108915	7.55	400884	10.36	262318	12.71	688451	17.09	492940	18.27	583432	19.17	132324
17	1528	gpc1i.d	GPC#1 INITIAL RINSE		1	5.50	112974	7.55	366268	10.34	249653	12.63	460439	16.82	596675	18.19	925122	18.91	508096
18	1558	gpc1f.d	GPC#1 FINAL RINSE		1	5.50	129539	7.55	441770	10.34	298236	12.63	542368	16.82	647807	18.18	998121	18.91	622776

LJK 8/31/06

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0803

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/8/06 Analysis: BANs Analyst: LJK

GC Program: ABN1UL Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060804 EM Voltage: 1935

Calibration File: cc0808 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
HOZ-2	1374-3	
	1375-1,2	
	1396-2	

	Time	Filename	LabID	ClientId	DF													
1	1313	cc0808.d	ABN 25		1	5.18	284616	7.25	977404	10.02	544393	12.29	824403	16.45	813838	18.51	837816	17.85	1238353
2	1344	jr75mb.d	JR75MBS1	JR75MBS1	1	7.24	1119684	10.02	662778	12.29	1000583	16.43	908615	18.51	1024311				
3	1414	jr75sb.d	JR75LCSS1	JR75LCSS1	1	7.24	1162162	10.02	671851	12.29	988816	16.44	914371	18.51	997498				
4	1445	jr75o.d	JR75O	F5-S3	1	7.24	1039617	10.02	603128	12.29	906863	16.44	827752	18.50	982500				
5	1516	jr75p.d	JR75P	F5-B2	1	7.24	1186503	10.02	679272	12.29	1019101	16.43	979989	18.51	1187677				
6	1546	jr75q.d	JR75Q	F5-B1	1	7.24	1147532	10.02	680627	12.29	1011298	16.43	935733	18.51	1137276				
7	1617	jr75r.d	JR75R	F5-S2	1	7.24	1189468	10.02	698680	12.29	1004005	16.43	846025	18.51	998395				
8	1647	jr75s.d	JR75S	F5-S4	1	7.24	1020148	10.02	587045	12.29	900616	16.44	1146841	18.52	1515944				
9	1718	jr91a.d	JR91A	F1a-B1	1	7.24	1045847	10.02	591807	12.29	979686	16.45	1319648	18.53	1683603				
10	1748	jr91b.d	JR91B	F1a-S1	1	7.24	1022533	10.02	585526	12.29	856017	16.44	999266	18.52	1254270				
11	1819	jr91c.d	JR91C	F1a-B4	1	7.24	1063481	10.02	619308	12.29	1091782	16.46	1444003	18.53	1774372				
12	1849	jr91d.d	JR91D	F1a-S3	1	7.24	1059964	10.02	614534	12.29	1056003	16.45	1375584	18.53	1747762				
13	1920	jr91e.d	JR91E	F1a-S4	1	7.24	1010946	10.02	580214	12.29	965395	16.45	1290206	18.53	1600057				
14	1950	jq35pdl.d	JQ35P	T4-S3-08-C	3	5.18	261154	7.24	885007	10.02	503719	12.29	788702	16.44	875351	17.84	1346798	18.51	987151
15	2021	jq35pms.d	JQ35PMS	T4-S3-08-C MS	3	5.18	271231	7.24	936915	10.02	544822	12.29	828649	16.44	926797	17.85	1438826	18.51	1015346
16	2052	jq35pmd.d	JQ35PMSD	T4-S3-08-C MSD	3	5.18	281521	7.24	950259	10.02	548682	12.29	840039	16.44	887256	17.84	1454127	18.51	1025007
17	2122	jq52adl.d	JQ52A	T4-S3-02-F-DUP	3	5.18	269854	7.24	911964	10.02	568465	12.30	1098818	16.47	1585341	17.87	2134475	18.55	1668294
18	2153	jq52bdl.d	JQ52B	T4-S3-03-C-DUP	3	5.18	264846	7.24	905100	10.03	541269	12.30	950198	16.45	1780984	17.86	1912241	18.53	1437237
19	2224	jq33ad12.d	JQ33A	T4-B414-01-A	20	5.17	240368	7.24	803640	10.02	461205	12.29	795211	16.45	970689	17.85	1281104	18.52	984600
20	2255	jq33md12.d	JQ33M	T4-S3-01-D	20	5.18	277326	7.24	919016	10.02	534851	12.29	848832	16.45	1172991	17.85	1522508	18.53	1194264
21	2325	jq33nd12.d	JQ33N	T4-S3-01-E	20	5.18	273754	7.24	899719	10.02	524649	12.29	837085	16.46	1312553	17.86	1544766	18.54	1253359
22	2356	jq33od12.d	JQ33O	T4-S3-01-F	20	5.17	282519	7.24	927925	10.02	542934	12.29	852078	16.46	1231170	17.85	1498055	18.53	1222579
23	0027	jq33pd12.d	JQ33P	T4-S3-01-G	20	5.17	278183	7.24	906855	10.02	537701	12.29	859359	16.45	1198973	17.85	1585821	18.53	1189512
24	0057	jq33qd12.d	JQ33Q	T4-S3-01-H	20	5.18	270126	7.24	882589	10.02	511660	12.29	823530	16.46	1351083	17.86	1560322	18.54	1251971

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

LJK 8/8/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0808

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NT6 Curve Client ID: ART

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 7/5/06 Analysis Start Date: —

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	~~YES / NO~~
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	~~YES / NO~~
Cal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	~~YES / NO~~	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): 4 - 2,4-Dinitrophenol's RSD >10%. Linear fit $r^2 < 0.99$. Leaving as average fit.

LJK
7/5/06

Additional Details on Reverse: Yes / No

Analyst Signature: Jeff Roberson **Date:** 7/5/06

Reviewer's Signature: [signature] **Date:** 7/5/06

NWTPH-Dx Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
T4-B414-01-A	D	0
T4-B414-01-B	87.1%	0
T4-B414-01-C	74.2%	0
072606MBS	82.2%	0
072606LCS	89.6%	0
T4-B414-02-A	85.1%	0
T4-B414-02-A MS	82.9%	0
T4-B414-02-A MSD	79.8%	0
T4-B414-02-B	79.3%	0
T4-B414-02-C	81.8%	0
T4-B414-03-A	70.9%	0
T4-B414-03-B	74.2%	0
T4-B414-03-C	77.3%	0
T4-B414-04-A	79.8%	0
T4-B414-04-B	80.9%	0
T4-B414-04-C	72.4%	0
T4-S3-01-D	D	0
T4-S3-01-E	D	0
T4-S3-01-F	D	0
T4-S3-01-G	D	0
T4-S3-01-H	D	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(56-108)	(38-118)

Prep Method: SW3550B
Log Number Range: 06-12923 to 06-12939

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: T4-B414-02-A
MS/MSD

Lab Sample ID: JQ33D
LIMS ID: 06-12926
Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 07/26/06

Date Analyzed MS: 07/27/06 09:58
MSD: 07/27/06 10:13
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 5.04 g-dry-wt
MSD: 5.05 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 49.7%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	25.9	262	298	79.2%	264	297	80.2%	0.8%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	82.9%	79.8%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-072606
LAB CONTROL

Lab Sample ID: LCS-072606
LIMS ID: 06-12926
Matrix: Sediment
Data Release Authorized: MW
Reported: 07/31/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/26/06
Date Analyzed: 07/27/06 08:40
Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	130	150	86.7%

TPHD Surrogate Recovery

o-Terphenyl	89.6%

Results reported in mg/kg

4

TPH METHOD BLANK SUMMARY

BLANK NO.

JQ33MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

SDG No.: JQ33 Project No.: T4 EARLY ACTION

Date Extracted: 07/26/06 Matrix: SOLID

Date Analyzed : 07/27/06 Instrument ID : FID3A

Time Analyzed : 0824

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JQ33LCSS1	JQ33LCSS1	07/27/06
02	T4-B414-01-A	JQ33A	07/27/06
03	T4-B414-01-B	JQ33B	07/27/06
04	T4-B414-01-C	JQ33C	07/27/06
05	T4-B414-02-A	JQ33D	07/27/06
06	T4-B414-02-A	JQ33DMS	07/27/06
07	T4-B414-02-A	JQ33DMSD	07/27/06
08	T4-B414-02-B	JQ33E	07/27/06
09	T4-B414-02-C	JQ33F	07/27/06
10	T4-B414-03-A	JQ33G	07/27/06
11	T4-B414-03-B	JQ33H	07/27/06
12	T4-B414-03-C	JQ33I	07/27/06
13	T4-B414-04-A	JQ33J	07/27/06
14	T4-B414-04-B	JQ33K	07/27/06
15	T4-B414-04-C	JQ33L	07/27/06
16	T4-S3-01-D	JQ33M	07/27/06
17	T4-S3-01-E	JQ33N	07/27/06
18	T4-S3-01-F	JQ33O	07/27/06
19	T4-S3-01-G	JQ33P	07/27/06
20	T4-S3-01-H	JQ33Q	07/27/06

FORM IV TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIROMENTAL

SDG No.: JQ33 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 07/21/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.03 TRIAC: 5.26

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	07/15/06	1449	4.03	5.26
02	IB	IB	07/15/06	1505	4.03	5.26
03	ZZZZZ	ZZZZZ	07/15/06	1521	4.03	5.24
04	50 PPM DIESE	50 PPM DIESE	07/15/06	1537	4.03	5.26
05	100 PPM DIES	100 PPM DIES	07/15/06	1553	4.03	5.26
06	250 PPM DIES	250 PPM DIES	07/15/06	1608	4.03	5.26
07	500 PPM DIES	500 PPM DIES	07/15/06	1624	4.04	5.27
08	1000 PPM DIE	1000 PPM DIE	07/15/06	1640	4.05	5.27
09	2500 PPM DIE	2500 PPM DIE	07/15/06	1656	4.07	5.26
10	DIESEL ICV	DIESEL ICV	07/15/06	1712	4.03	5.27
11	DIESEL CVS	DIESEL CVS	07/15/06	1728	4.03	5.27
12	50 PPM JETA	50 PPM JETA	07/15/06	1744	4.02	5.26
13	100 PPM JETA	100 PPM JETA	07/15/06	1759	4.02	5.26
14	250 PPM JETA	250 PPM JETA	07/15/06	1815	4.03	5.25
15	500 PPM JETA	500 PPM JETA	07/15/06	1831	4.03	5.27
16	1000 PPM JET	1000 PPM JETA	07/15/06	1847	4.04	5.26
17	2500 PPM JET	2500 PPM JETA	07/15/06	1903	4.07	5.26
18	JETA CVS	JETA CVS	07/15/06	1919	4.03	5.26
19	100 PPM MOIL	100 PPM MOIL	07/15/06	1935	4.03	5.25
20	250 PPM MOIL	250 PPM MOIL	07/15/06	1950	4.03	5.25
21	500 PPM MOIL	500 PPM MOIL	07/15/06	2006	4.03	5.26
22	1000 PPM MOI	1000 PPM MOI	07/15/06	2022	4.02	5.27
23	2500 PPM MOI	2500 PPM MOI	07/15/06	2038	4.02	5.30
24	5000 PPM MOI	5000 PPM MOI	07/15/06	2054	4.04	5.34*
25	MOIL ICV	MOIL ICV	07/15/06	2109	4.03	5.26
26	MOIL CVS	MOIL CVS	07/15/06	2125	4.03	5.26

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

SDG No.: JQ33 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.01 TRIAC: 5.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	ZZZZZ	ZZZZZ	07/27/06	0707	4.00	5.22
02	RT	RT	07/27/06	0722	4.01	5.21
03	IB	IB	07/27/06	0737	4.01	5.21
04	DIESEL#1	DIESEL#1	07/27/06	0753	4.01	5.20
05	MOIL#1	MOIL#1	07/27/06	0809	4.00	5.21
06	JQ33MBS1	JQ33MBS1	07/27/06	0824	4.01	5.21
07	JQ33LCSS1	JQ33LCSS1	07/27/06	0840	4.01	5.21
08	T4-B414-01-A	JQ33A	07/27/06	0855		
09	T4-B414-01-B	JQ33B	07/27/06	0911	4.01	5.22
10	T4-B414-01-C	JQ33C	07/27/06	0927	4.01	5.23
11	T4-B414-02-A	JQ33D	07/27/06	0942	4.01	5.22
12	T4-B414-02-A	JQ33DMS	07/27/06	0958	4.02	5.23
13	T4-B414-02-A	JQ33DMSD	07/27/06	1013	4.02	5.23
14	T4-B414-02-B	JQ33E	07/27/06	1029	4.01	5.23
15	ZZZZZ	ZZZZZ	07/27/06	1044	4.01	5.23
16	DIESEL#2	DIESEL#2	07/27/06	1100	4.02	5.21
17	MOIL#2	MOIL#2	07/27/06	1116	4.01	5.22
18	T4-B414-02-C	JQ33F	07/27/06	1131	4.01	5.23
19	T4-B414-03-A	JQ33G	07/27/06	1147	4.01	5.23
20	T4-B414-03-B	JQ33H	07/27/06	1203	4.01	5.23
21	T4-B414-03-C	JQ33I	07/27/06	1219	4.01	5.23
22	T4-B414-04-A	JQ33J	07/27/06	1234	4.01	5.23
23	T4-B414-04-B	JQ33K	07/27/06	1250	4.02	5.23
24	T4-B414-04-C	JQ33L	07/27/06	1306	4.02	5.23
25	T4-S3-01-D	JQ33M	07/27/06	1321		
26	T4-S3-01-E	JQ33N	07/27/06	1337		
27	ZZZZZ	ZZZZZ	07/27/06	1353		5.23
28	DIESEL#3	DIESEL#3	07/27/06	1409	4.02	5.22
29	MOIL#3	MOIL#3	07/27/06	1424	4.01	5.23
30	T4-S3-01-F	JQ33O	07/27/06	1440		
31	T4-S3-01-G	JQ33P	07/27/06	1456		
32	T4-S3-01-H	JQ33Q	07/27/06	1511		

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

8

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

SDG No.: JQ33 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.01 TRIAC: 5.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	ZZZZZ	ZZZZZ	07/27/06	1527	4.01	5.26
02	ZZZZZ	ZZZZZ	07/27/06	1543	4.02	5.26
03	ZZZZZ	ZZZZZ	07/27/06	1558	4.02	5.23
04	ZZZZZ	ZZZZZ	07/27/06	1614	4.02	5.22
05	DIESEL#4	DIESEL#4	07/27/06	1630	4.01	5.20
06	MOIL#4	MOIL#4	07/27/06	1645	4.01	5.23

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

NWTPH-Dx Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: MW
Reported: 07/31/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
JQ33A	T4-B414-01-A	07/26/06	07/27/06	20	**Diesel**	**980**
06-12923	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**3,300**
					o-Terphenyl	D
JQ33B	T4-B414-01-B	07/26/06	07/27/06	1.0	**Diesel**	**51**
06-12924	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**160**
					o-Terphenyl	87.1%
JQ33C	T4-B414-01-C	07/26/06	07/27/06	1.0	**Diesel**	**120**
06-12925	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**320**
					o-Terphenyl	74.2%
MB-072606	Method Blank	07/26/06	07/27/06	1.0	Diesel	< 5.0 U
06-12926	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	82.2%
JQ33D	T4-B414-02-A	07/26/06	07/27/06	1.0	**Diesel**	**26**
06-12926	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**97**
					o-Terphenyl	85.1%
JQ33E	T4-B414-02-B	07/26/06	07/27/06	1.0	**Diesel**	**60**
06-12927	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**210**
					o-Terphenyl	79.3%
JQ33F	T4-B414-02-C	07/26/06	07/27/06	1.0	**Diesel**	**92**
06-12928	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**280**
					o-Terphenyl	81.8%
JQ33G	T4-B414-03-A	07/26/06	07/27/06	1.0	**Diesel**	**47**
06-12929	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**200**
					o-Terphenyl	70.9%
JQ33H	T4-B414-03-B	07/26/06	07/27/06	1.0	**Diesel**	**64**
06-12930	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**220**
					o-Terphenyl	74.2%
JQ33I	T4-B414-03-C	07/26/06	07/27/06	1.0	**Diesel**	**58**
06-12931	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**220**
					o-Terphenyl	77.3%
JQ33J	T4-B414-04-A	07/26/06	07/27/06	1.0	**Diesel**	**46**
06-12932	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**220**
					o-Terphenyl	79.8%
JQ33K	T4-B414-04-B	07/26/06	07/27/06	1.0	**Diesel**	**48**
06-12933	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**180**
					o-Terphenyl	80.9%
JQ33L	T4-B414-04-C	07/26/06	07/27/06	1.0	**Diesel**	**60**
06-12934	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**210**
					o-Terphenyl	72.4%

1383

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: MW
Reported: 07/31/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
JQ33M	T4-S3-01-D	07/26/06	07/27/06	20	**Diesel**	**270**
06-12935	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**780**
					o-Terphenyl	D
JQ33N	T4-S3-01-E	07/26/06	07/27/06	20	**Diesel**	**530**
06-12936	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1,500**
					o-Terphenyl	D
JQ33O	T4-S3-01-F	07/26/06	07/27/06	20	**Diesel**	**1,100**
06-12937	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**2,900**
					o-Terphenyl	D
JQ33P	T4-S3-01-G	07/26/06	07/27/06	20	**Diesel**	**910**
06-12938	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**2,300**
					o-Terphenyl	D
JQ33Q	T4-S3-01-H	07/26/06	07/27/06	20	**Diesel**	**710**
06-12939	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**2,100**
					o-Terphenyl	D

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a008.d ARI ID: JQ33A
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 08:55
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 20
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	27684	2
C8	1.437	-0.001	1096	1586	DIESEL (C12-C24)	3337638	270
C10	2.657	-0.001	127	51	M.OIL (C24-C38)	8530648	904
C12	3.123	-0.014	1408	1946	AK-102 (C10-C25)	3349873	231
C14	3.446	0.004	3772	2859	AK-103 (C25-C36)	8070712	1271
C16	3.695	-0.003	11368	7822			
C18	3.928	-0.002	13479	9641			
C20	4.145	-0.002	16335	11000			
C22	4.364	0.006	216888	164797	STODDARD (C8-C12)	27684	2
C24	4.558	-0.007	111083	103637			
C25	4.689	0.018	130965	284778			
C26	4.780	0.005	123481	106755			
C28	5.013	0.026	80860	24076			
C32	5.422	0.002	178123	169710			
C34	5.626	-0.002	72529	49852			
Filter Peak	6.233	0.014	13078	2344			
C36	5.830	-0.001	60260.0	55795	o-Terph Surrogate Rec =	0.0%	(0)
C38	6.045	0.008	20149.0	9555	Triacon Surrogate Rec =	0.0%	(0)
C40	6.289	0.001	15474	5866			
o-terph	----				JET-A (C10-C18)	690229	60
Triacon Surr	----						

JK 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

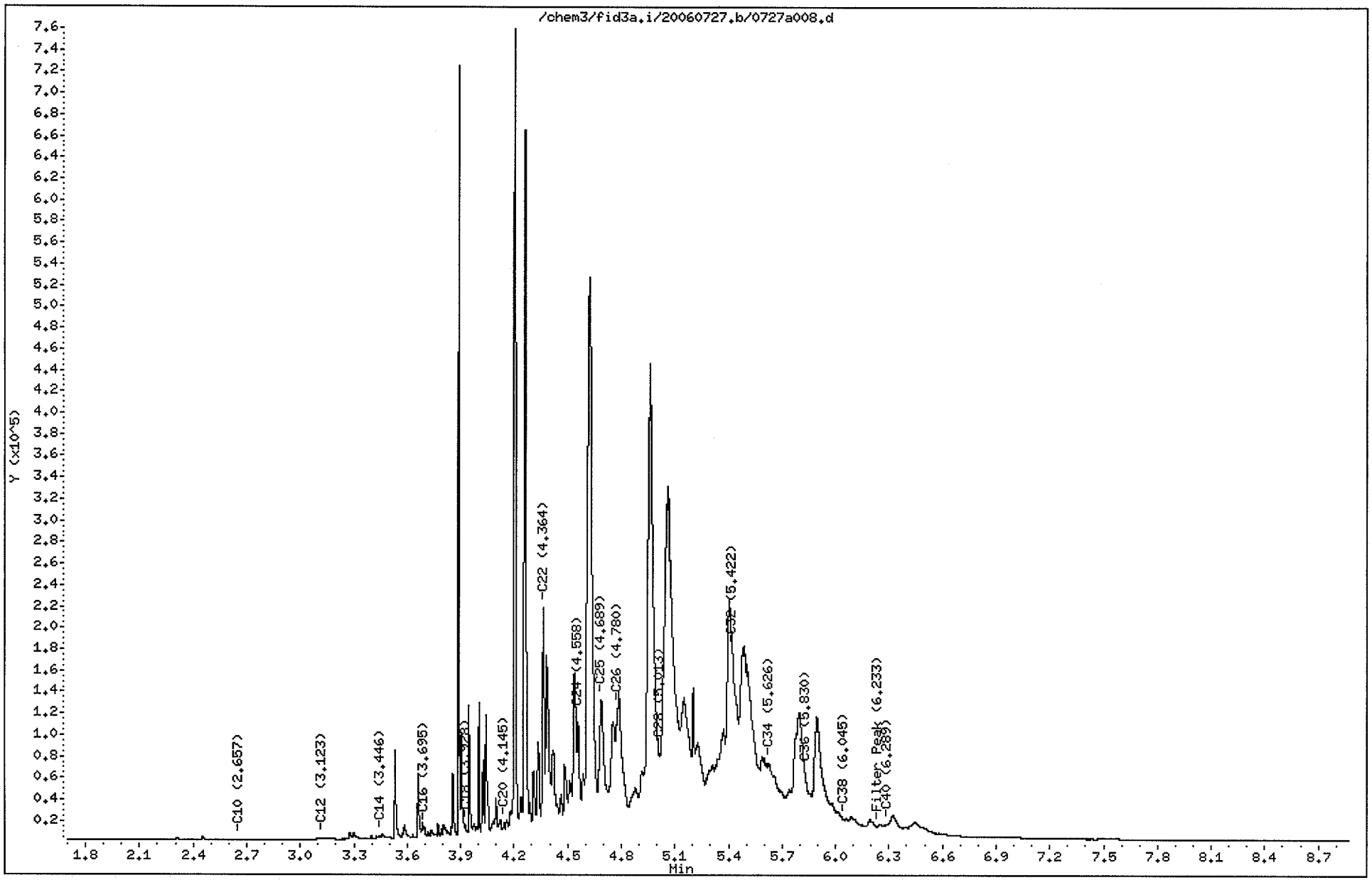
Data File: /chem3/fid3a.i/20060727.b/0727a008.d
Date : 27-JUL-2006 08:55
Client ID:
Sample Info: JQ33A,20

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1386



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a009.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006

ARI ID: JQ33B
Client ID:
Injection: 27-JUL-2006 09:11

Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.245	-0.008	29605	37252	GAS (Tol-C12)	298266	23
C8	1.415	-0.023	70224	51470	DIESEL (C12-C24)	3285951	266
C10	2.656	-0.002	1269	952	M.OIL (C24-C38)	7806832	828
C12	3.129	-0.007	2584	2115	AK-102 (C10-C25)	3339035	230
C14	3.445	0.003	11357	6799	AK-103 (C25-C36)	7256309	1143
C16	3.699	0.000	19149	13338			
C18	3.930	0.000	32510	31266			
C20	4.150	0.004	49826	27193			
C22	4.366	0.008	202606	153772	STODDARD (C8-C12)	171064	11
C24	4.570	0.005	111303	104540			
C25	4.674	0.003	138393	154698			
C26	4.777	0.002	137161	178600			
C28	4.985	-0.003	92447	11042			
C32	5.425	0.005	93404	56201			
C34	5.622	-0.006	135627	165721			
Filter Peak	6.218	-0.001	22347	4856			
C36	5.829	-0.002	65869.0	25596	o-Terph Surrogate Rec = 87.2%		(714168)
C38	6.038	0.001	38291.0	27926	Triacon Surrogate Rec = 85.5%		(587984)
C40	6.287	-0.001	22040	6013			
o-terph	4.009	0.003	1403091	714168	JET-A (C10-C18)	772475	67
Triacon Surr	5.220	0.008	603737	587984			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a009.d

Date : 27-JUL-2006 09:11

Client ID:

Sample Info: JQ33B

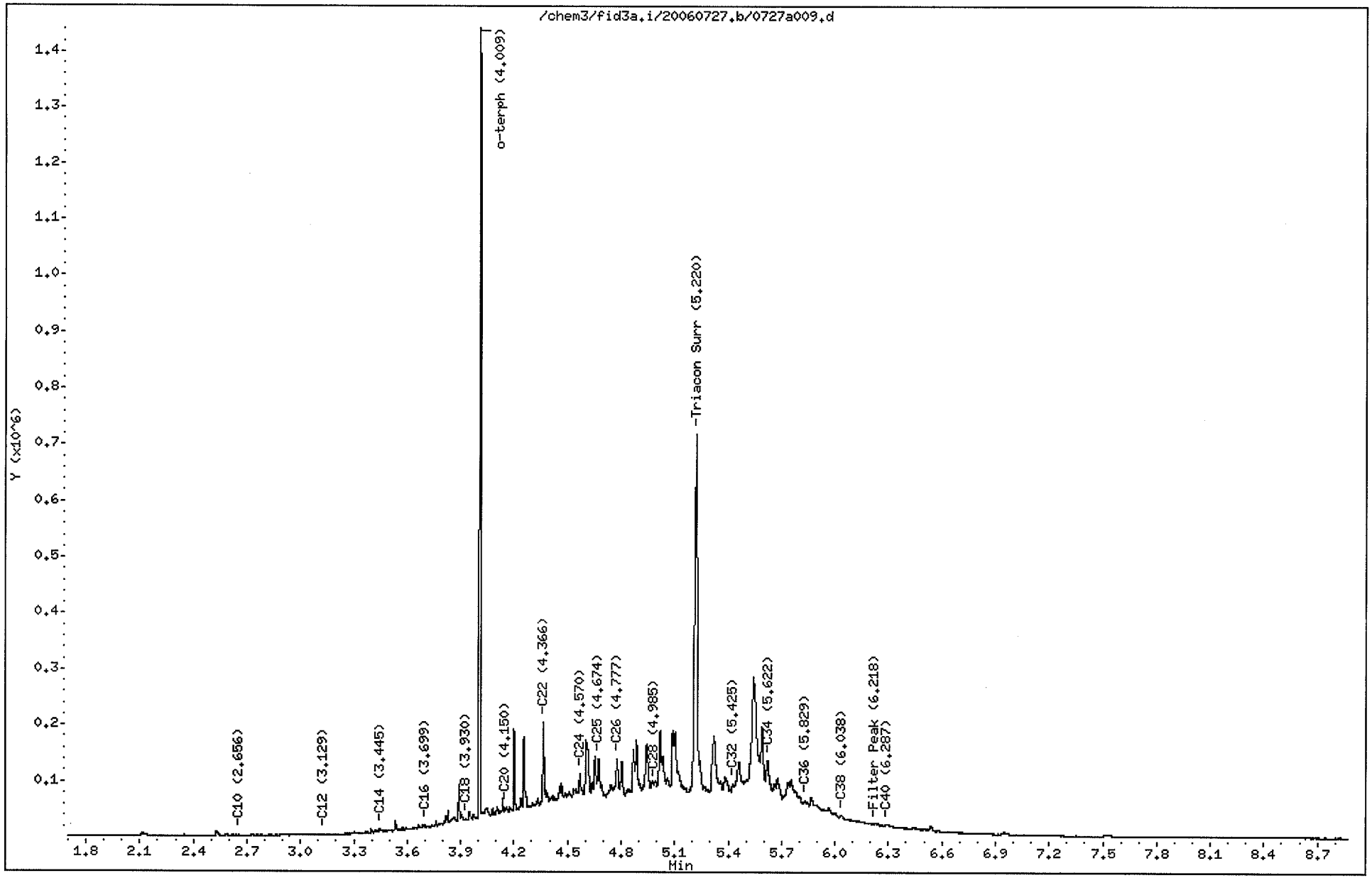
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1388



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a010.d ARI ID: JQ33C
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 09:27
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.242	-0.011	29715	38092	GAS (Tol-C12)	333274	25
C8	1.412	-0.026	64306	46022	DIESEL (C12-C24)	7660138	619
C10	2.655	-0.003	1246	1158	M.OIL (C24-C38)	15964663	1693
C12	3.128	-0.009	5112	4306	AK-102 (C10-C25)	7751186	534
C14	3.444	0.002	18605	12136	AK-103 (C25-C36)	15100653	2378
C16	3.706	0.007	35924	7157			
C18	3.931	0.001	80124	48301			
C20	4.144	-0.003	139595	115775			
C22	4.347	-0.010	163956	158209	STODDARD (C8-C12)	192569	13
C24	4.563	-0.002	195053	91789			
C25	4.668	-0.002	201350	31856			
C26	4.771	-0.004	204723	82847			
C28	4.993	0.005	218992	103448			
C32	5.424	0.004	193901	49388			
C34	5.628	0.000	180768	56845			
Filter Peak	6.216	-0.003	39849	19076			
C36	5.827	-0.004	117450.0	61574	o-Terph Surrogate Rec = 74.2%		(607115)
C38	6.040	0.003	66551.0	24844	Triacon Surrogate Rec = 80.4%		(552661)
C40	6.284	-0.004	35556	16047			
o-terph	4.013	0.007	1176377	607115	JET-A (C10-C18)	1948225	168
Triacon Surr	5.234	0.021	432378	552661			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a010.d

Date : 27-JUL-2006 09:27

Client ID:

Sample Info: JQ33C

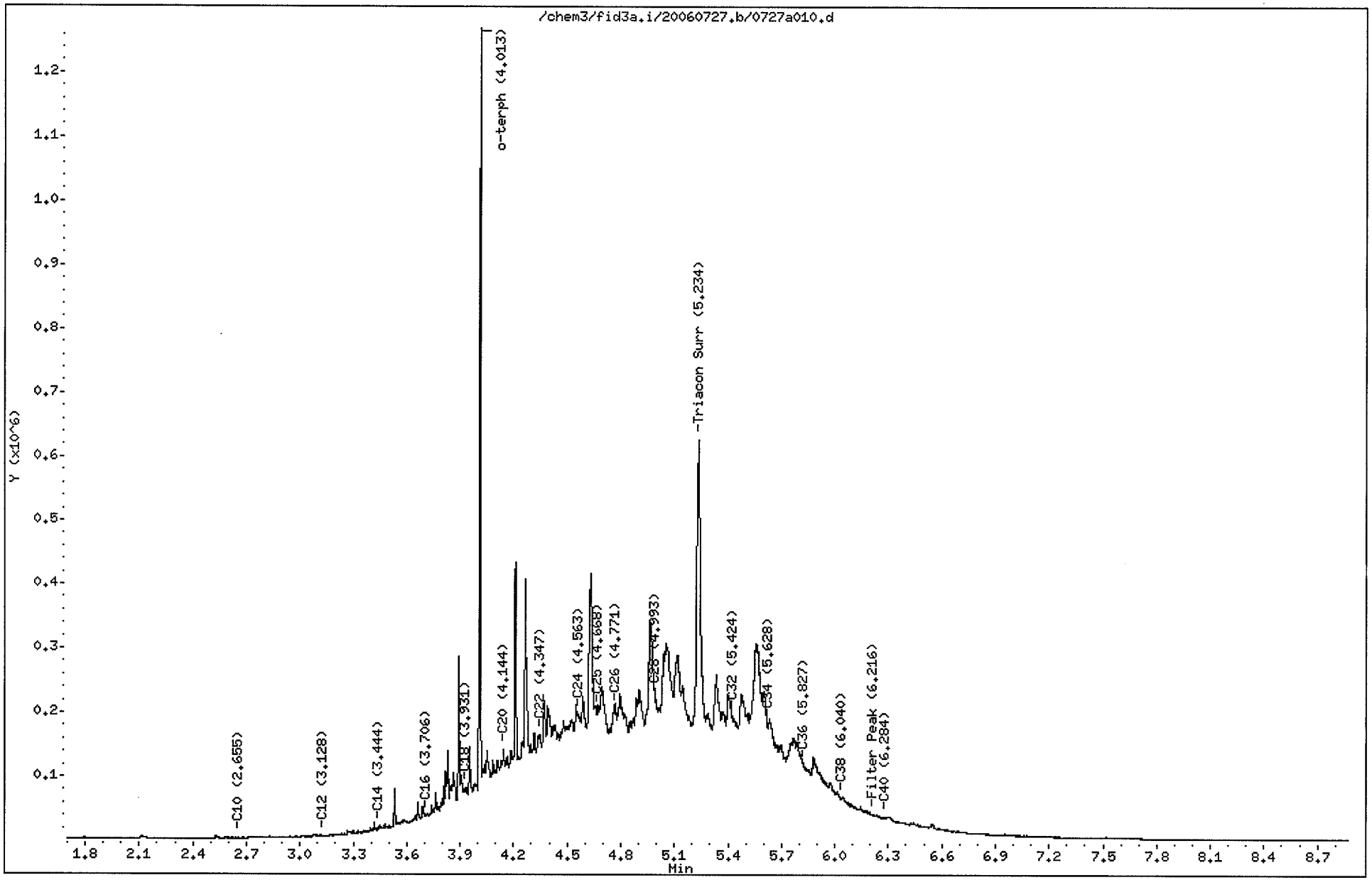
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1390



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a011.d ARI ID: JQ33D
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 09:42
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.010	28388	36346	GAS (Tol-C12)	244540	19
C8	1.414	-0.024	48312	36887	DIESEL (C12-C24)	1621278	131
C10	2.655	-0.003	844	647	M.OIL (C24-C38)	4616207	489
C12	3.129	-0.008	1508	1147	AK-102 (C10-C25)	1651719	114
C14	3.448	0.006	4884	4300	AK-103 (C25-C36)	4379087	690
C16	3.701	0.002	8121	6456			
C18	3.934	0.003	14028	12284			
C20	4.141	-0.005	28890	19657			
C22	4.367	0.009	51186	57124	STODDARD (C8-C12)	116351	8
C24	4.568	0.003	44705	22966			
C25	4.663	-0.008	69293	59934			
C26	4.785	0.009	82637	110804			
C28	4.989	0.001	54258	17156			
C32	5.416	-0.004	52174	17148			
C34	5.616	-0.012	79264	154411			
Filter Peak	6.222	0.003	14619	16912			
C36	5.833	0.002	35932.0	20787	o-Terph Surrogate Rec = 85.2%		(697606)
C38	6.031	-0.006	21603.0	15028	Triacon Surrogate Rec = 88.3%		(607232)
C40	6.289	0.001	12167	4742			
o-terph	4.012	0.007	1425382	697606	JET-A (C10-C18)	373226	32
Triacon Surr	5.222	0.010	729164	607232			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

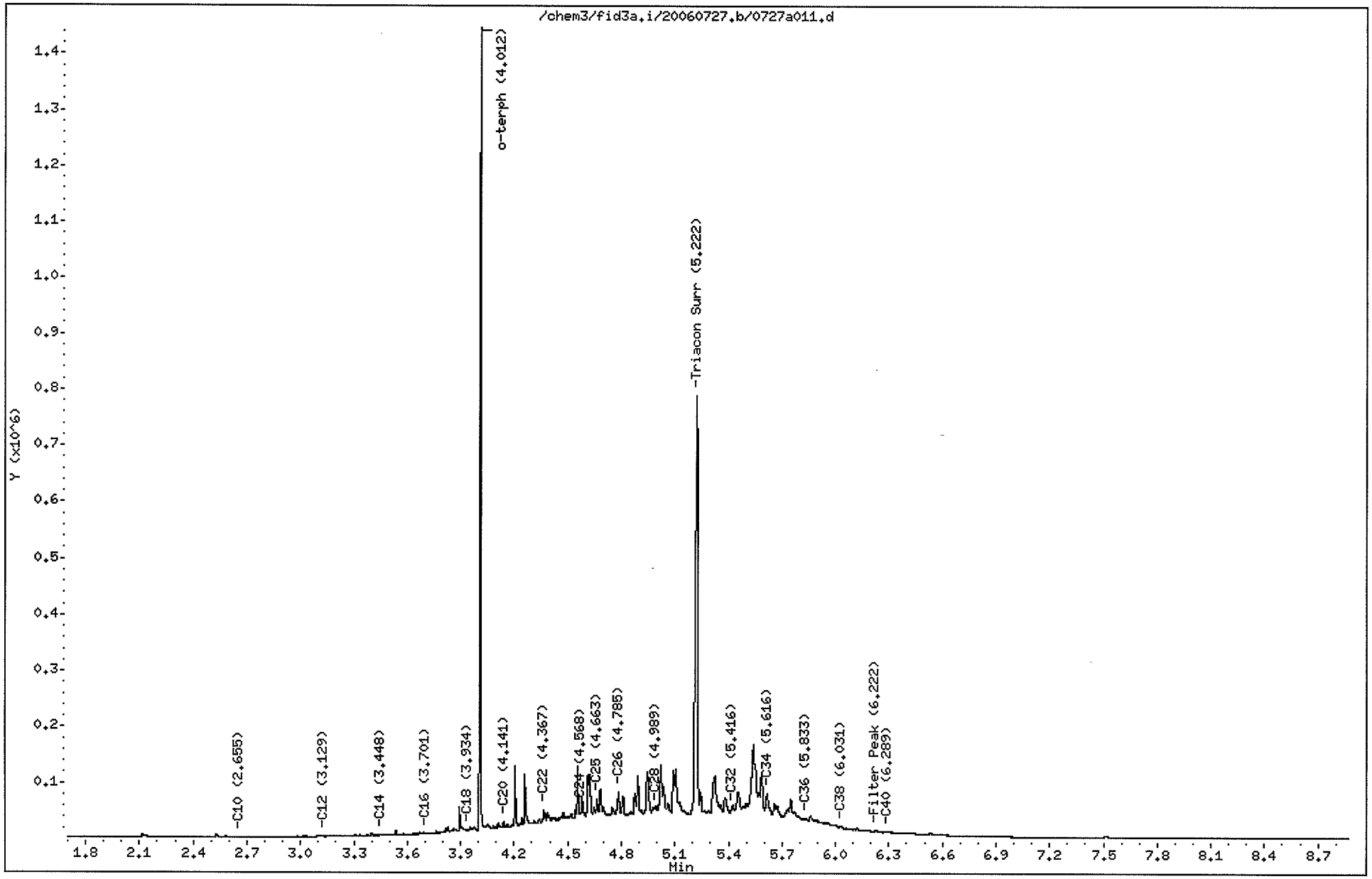
Data File: /chem3/fid3a.i/20060727.b/0727a011.d
Date : 27-JUL-2006 09:42
Client ID:
Sample Info: JQ33D

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1392



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a014.d ARI ID: JQ33E
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 10:29
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.242	-0.011	31595	37068	GAS (Tol-C12)	298200	23
C8	1.418	-0.020	20105	22976	DIESEL (C12-C24)	3743627	303
C10	2.655	-0.003	1406	1318	M.OIL (C24-C38)	10202249	1082
C12	3.129	-0.008	3706	2782	AK-102 (C10-C25)	3956169	273
C14	3.443	0.001	16625	10241	AK-103 (C25-C36)	9556927	1505
C16	3.699	0.001	24982	19442			
C18	3.932	0.002	42058	41720			
C20	4.141	-0.005	103298	70121			
C22	4.357	-0.001	72750	8691	STODDARD (C8-C12)	154888	10
C24	4.558	-0.007	98168	82853			
C25	4.663	-0.008	200509	209539			
C26	4.775	0.000	105338	20881			
C28	4.989	0.001	120773	59346			
C32	5.422	0.003	98661	13756			
C34	5.628	0.000	178221	74475			
Filter Peak	6.214	-0.005	22634	11416			
C36	5.832	0.001	76809.0	15239	o-Terph Surrogate Rec = 79.4%		(650088)
C38	6.038	0.001	45657.0	55413	Triacon Surrogate Rec = 70.5%		(484939)
C40	6.287	-0.001	21478	5903			
o-terph	4.012	0.006	1321792	650088	JET-A (C10-C18)	1009646	87
Triacon Surr	5.228	0.016	474733	484939			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a014.d

Date : 27-JUL-2006 10:29

Client ID:

Sample Info: JQ33E

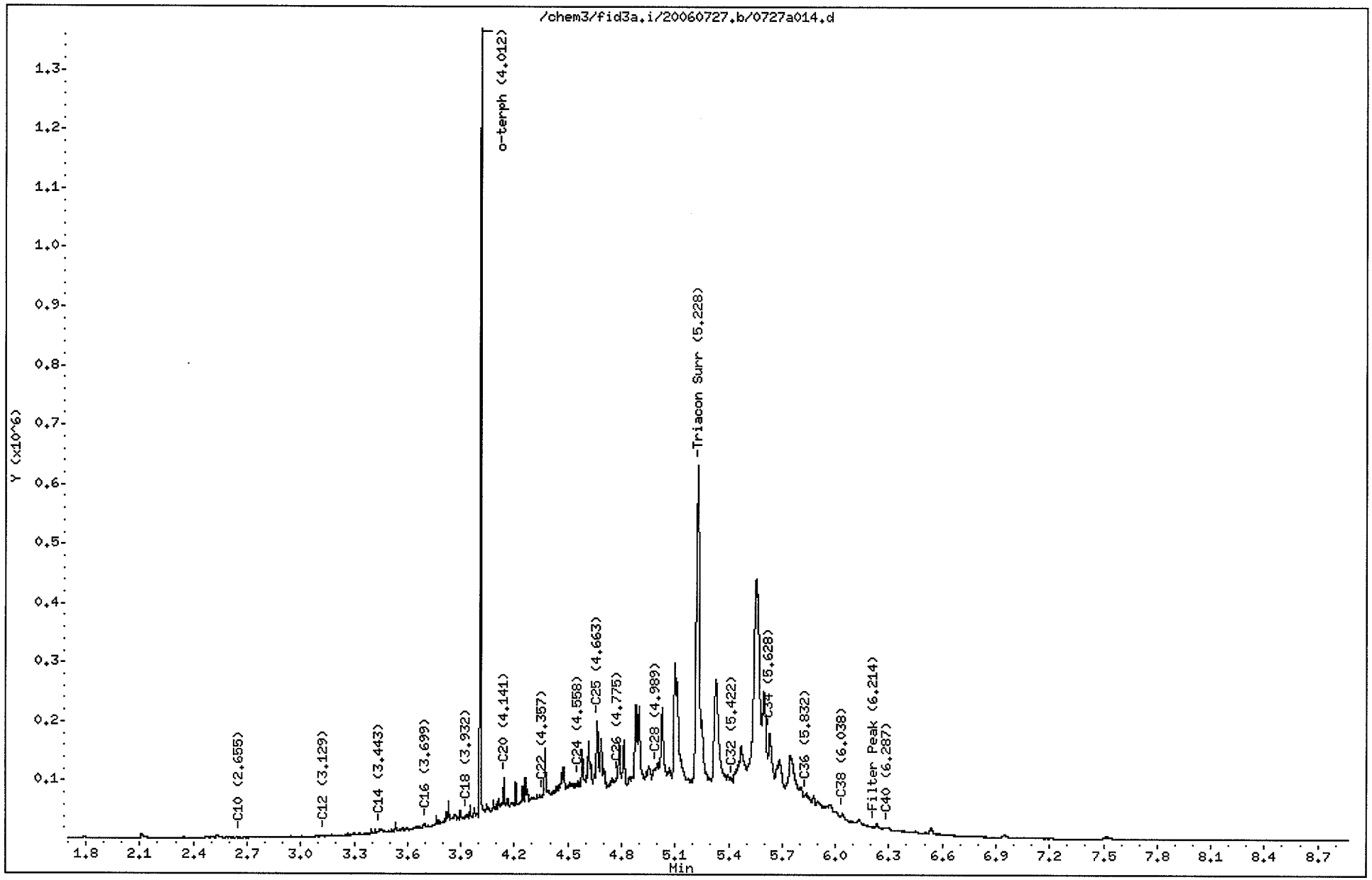
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1394



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a018.d ARI ID: JQ33F
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 11:31
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.010	30833	37692	GAS (Tol-C12)	320579	24
C8	1.456	0.017	2426	4206	DIESEL (C12-C24)	5885781	476
C10	2.656	-0.002	1412	1114	M.OIL (C24-C38)	13437804	1425
C12	3.145	0.008	4760	3583	AK-102 (C10-C25)	5969725	411
C14	3.444	0.002	16860	10998	AK-103 (C25-C36)	12747276	2008
C16	3.699	0.000	31207	12145			
C18	3.933	0.002	60535	45780			
C20	4.143	-0.004	110131	102469			
C22	4.359	0.001	113522	31064	STODDARD (C8-C12)	182654	12
C24	4.562	-0.003	162344	96784			
C25	4.669	-0.002	194794	194559			
C26	4.773	-0.003	154510	60817			
C28	4.987	-0.001	176471	75264			
C32	5.417	-0.003	158040	113706			
C34	5.638	0.010	275917	565224			
Filter Peak	6.222	0.003	30356	13030			
C36	5.832	0.000	94496.0	24182	o-Terph Surrogate Rec = 81.7%		(669258)
C38	6.038	0.002	54071.0	19023	Triacon Surrogate Rec = 75.5%		(519007)
C40	6.288	0.000	29298	14960			
o-terph	4.013	0.007	1267265	669258	JET-A (C10-C18)	1512788	131
Triacon Surr	5.231	0.018	486137	519007			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a018.d

Date : 27-JUL-2006 11:31

Client ID:

Sample Info: JQ33F

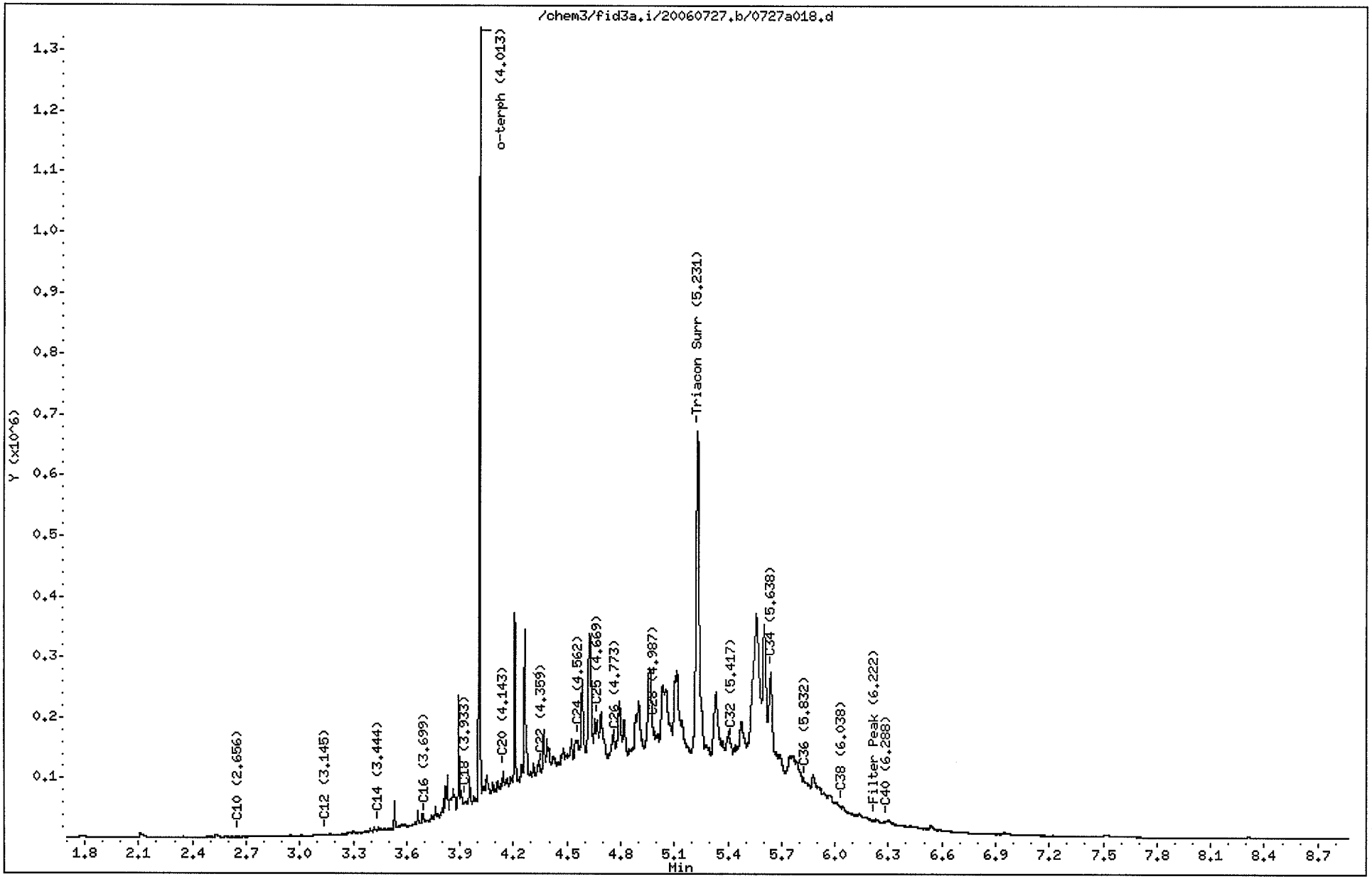
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1396



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a019.d ARI ID: JQ33G
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 11:47
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.244	-0.009	27060	32905	GAS (Tol-C12)	263647	20
C8	1.418	-0.020	31344	25285	DIESEL (C12-C24)	2932955	237
C10	2.656	-0.002	944	863	M.OIL (C24-C38)	9709300	1029
C12	3.145	0.008	3661	2738	AK-102 (C10-C25)	3090509	213
C14	3.444	0.002	11415	7358	AK-103 (C25-C36)	9013086	1420
C16	3.700	0.001	16495	12270			
C18	3.935	0.004	25928	21194			
C20	4.143	-0.004	61578	37001			
C22	4.356	-0.001	47315	11244	STODDARD (C8-C12)	127667	9
C24	4.560	-0.005	127144	118915			
C25	4.667	-0.003	124973	111826			
C26	4.790	0.015	157136	222878			
C28	4.987	-0.001	100671	48904			
C32	5.415	-0.005	111612	34600			
C34	5.627	-0.001	142422	101544			
Filter Peak	6.221	0.002	23530	17377			
C36	5.830	-0.001	66942.0	17316	o-Terph Surrogate Rec = 70.9%		(580291)
C38	6.044	0.008	56132.0	79858	Triacon Surrogate Rec = 83.6%		(574964)
C40	6.294	0.006	29193	64268			
o-terph	4.013	0.007	1216991	580291	JET-A (C10-C18)	752282	65
Triacon Surr	5.229	0.016	561550	574964			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a019.d

Date : 27-JUL-2006 11:47

Client ID:

Sample Info: JQ33G

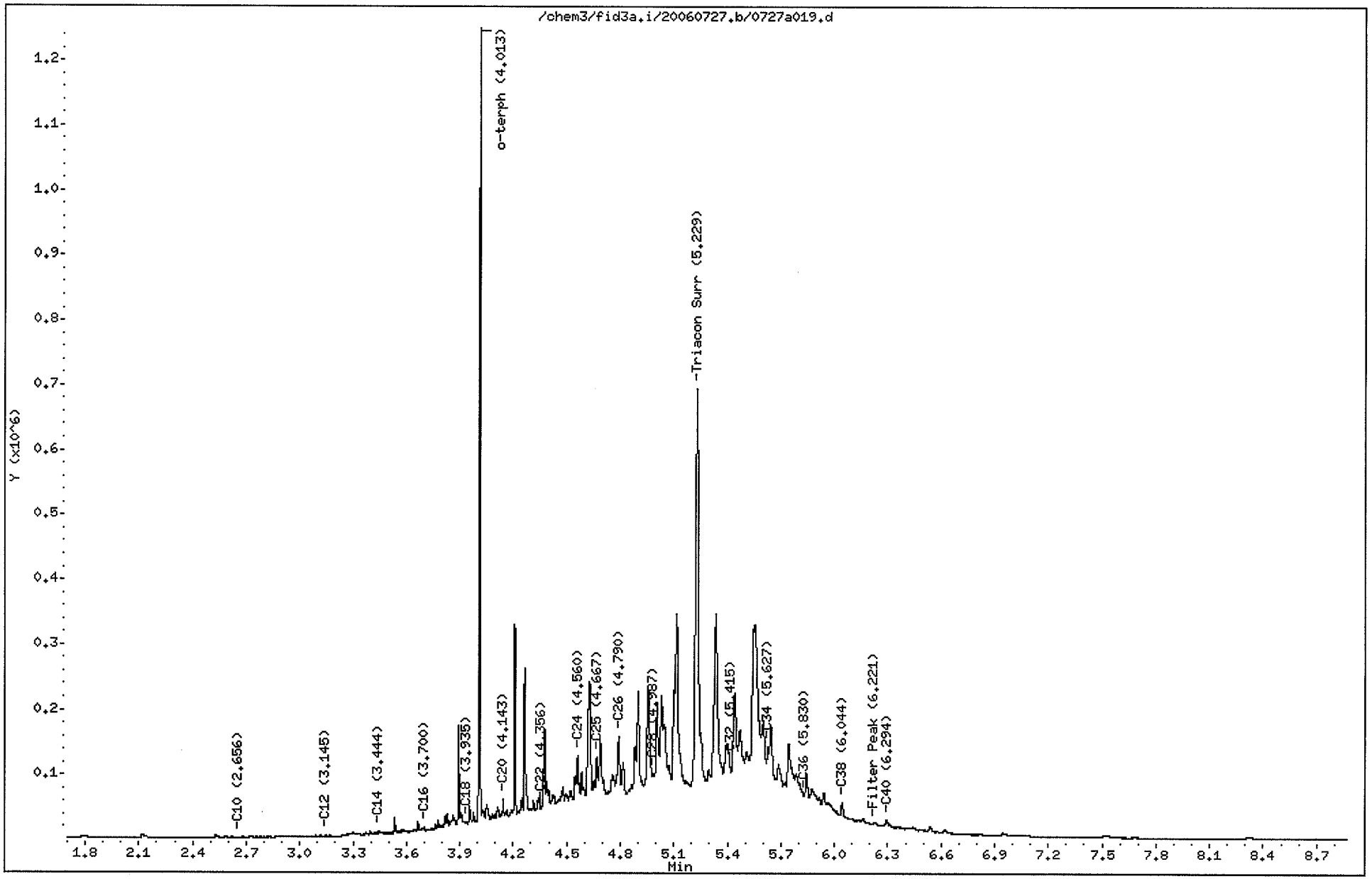
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1398



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a020.d ARI ID: JQ33H
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 12:03
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.010	29339	37972	GAS (Tol-C12)	298797	23
C8	1.415	-0.023	44807	34009	DIESEL (C12-C24)	3950949	319
C10	2.656	-0.002	1157	1077	M.OIL (C24-C38)	10380266	1101
C12	3.145	0.008	3760	2888	AK-102 (C10-C25)	4017044	277
C14	3.443	0.001	13263	9201	AK-103 (C25-C36)	9880209	1556
C16	3.690	-0.009	21614	25827			
C18	3.933	0.002	33907	29349			
C20	4.143	-0.004	73654	53109			
C22	4.371	0.013	149654	154268	STODDARD (C8-C12)	147580	10
C24	4.572	0.007	110895	81074			
C25	4.670	-0.001	146676	125146			
C26	4.776	0.001	109983	15340			
C28	5.002	0.014	127859	82635			
C32	5.420	0.000	131842	66014			
C34	5.629	0.000	143564	134387			
Filter Peak	6.219	0.000	22149	5704			
C36	5.833	0.002	66211.0	18263	o-Terph Surrogate Rec = 74.3%		(608210)
C38	6.035	-0.002	38250.0	16358	Triacon Surrogate Rec = 74.9%		(515224)
C40	6.290	0.002	23459	15808			
o-terph	4.013	0.007	1230248	608210	JET-A (C10-C18)	974416	84
Triacon Surr	5.228	0.016	501337	515224			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

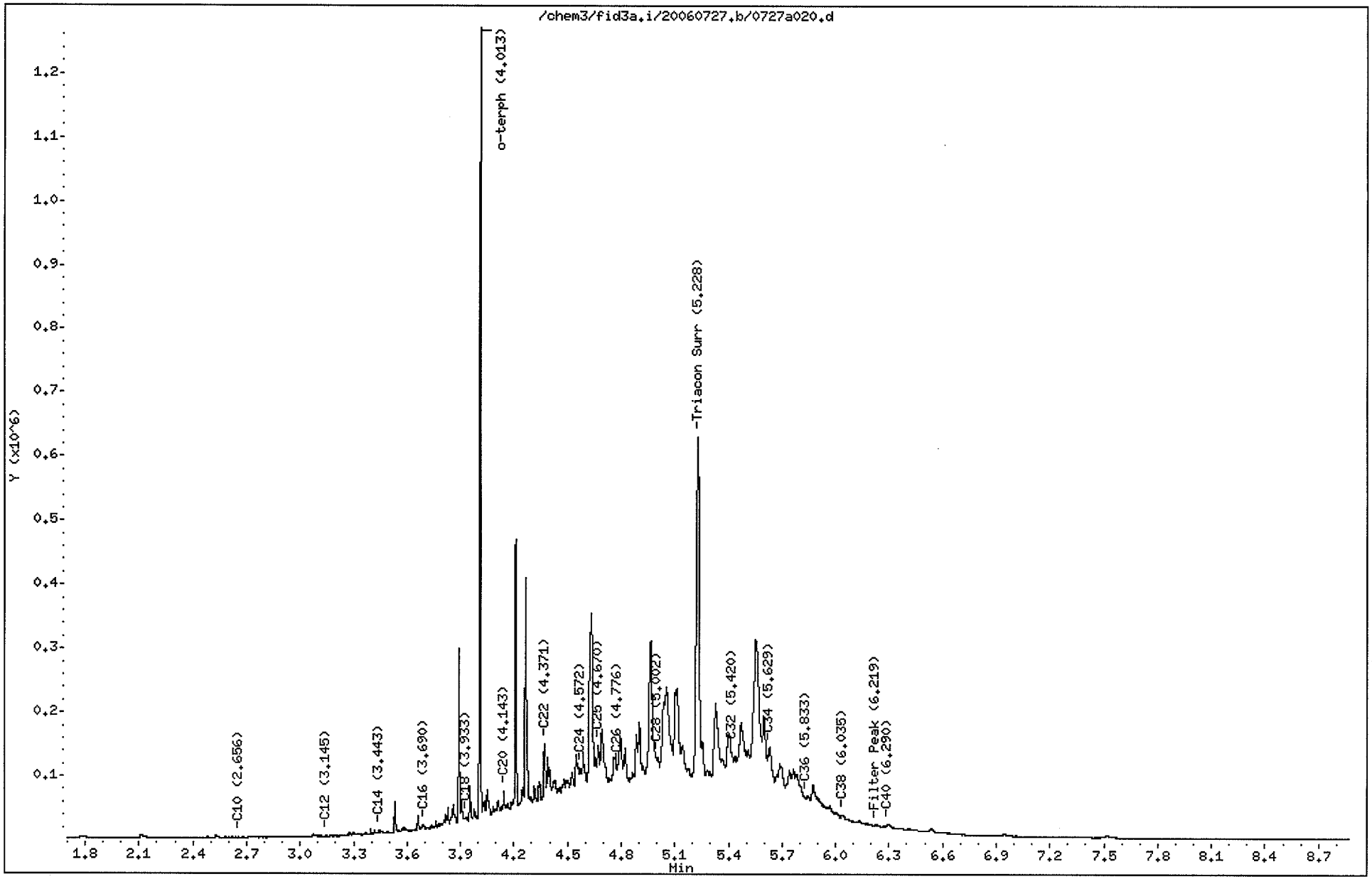
Data File: /chem3/fid3a.i/20060727.b/0727a020.d
Date : 27-JUL-2006 12:03
Client ID:
Sample Info: JQ33H

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1400



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a021.d ARI ID: JQ33I
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 12:19
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.010	28269	35154	GAS (Tol-C12)	263446	20
C8	1.420	-0.018	19072	17818	DIESEL (C12-C24)	3599300	291
C10	2.656	-0.002	1325	1285	M.OIL (C24-C38)	10485096	1112
C12	3.143	0.007	4369	3433	AK-102 (C10-C25)	3669644	253
C14	3.443	0.001	14953	9249	AK-103 (C25-C36)	9939747	1566
C16	3.699	0.000	21035	11027			
C18	3.931	0.001	36606	22143			
C20	4.143	-0.004	92863	62359			
C22	4.357	-0.001	74180	16139	STODDARD (C8-C12)	134632	9
C24	4.564	-0.001	102187	58778			
C25	4.670	-0.001	187218	190440			
C26	4.774	-0.001	108898	38417			
C28	4.993	0.005	125601	129726			
C32	5.422	0.002	104287	50258			
C34	5.631	0.003	173960	341083			
Filter Peak	6.212	-0.007	22470	11980			
C36	5.830	-0.001	71392.0	12745	o-Terph Surrogate Rec = 77.3%		(632529)
C38	6.038	0.001	42063.0	33511	Triacon Surrogate Rec = 70.6%		(485175)
C40	6.291	0.003	22245	9597			
o-terph	4.013	0.007	1267660	632529	JET-A (C10-C18)	920993	80
Triacon Surr	5.230	0.017	456114	485175			

JR 07/28/06

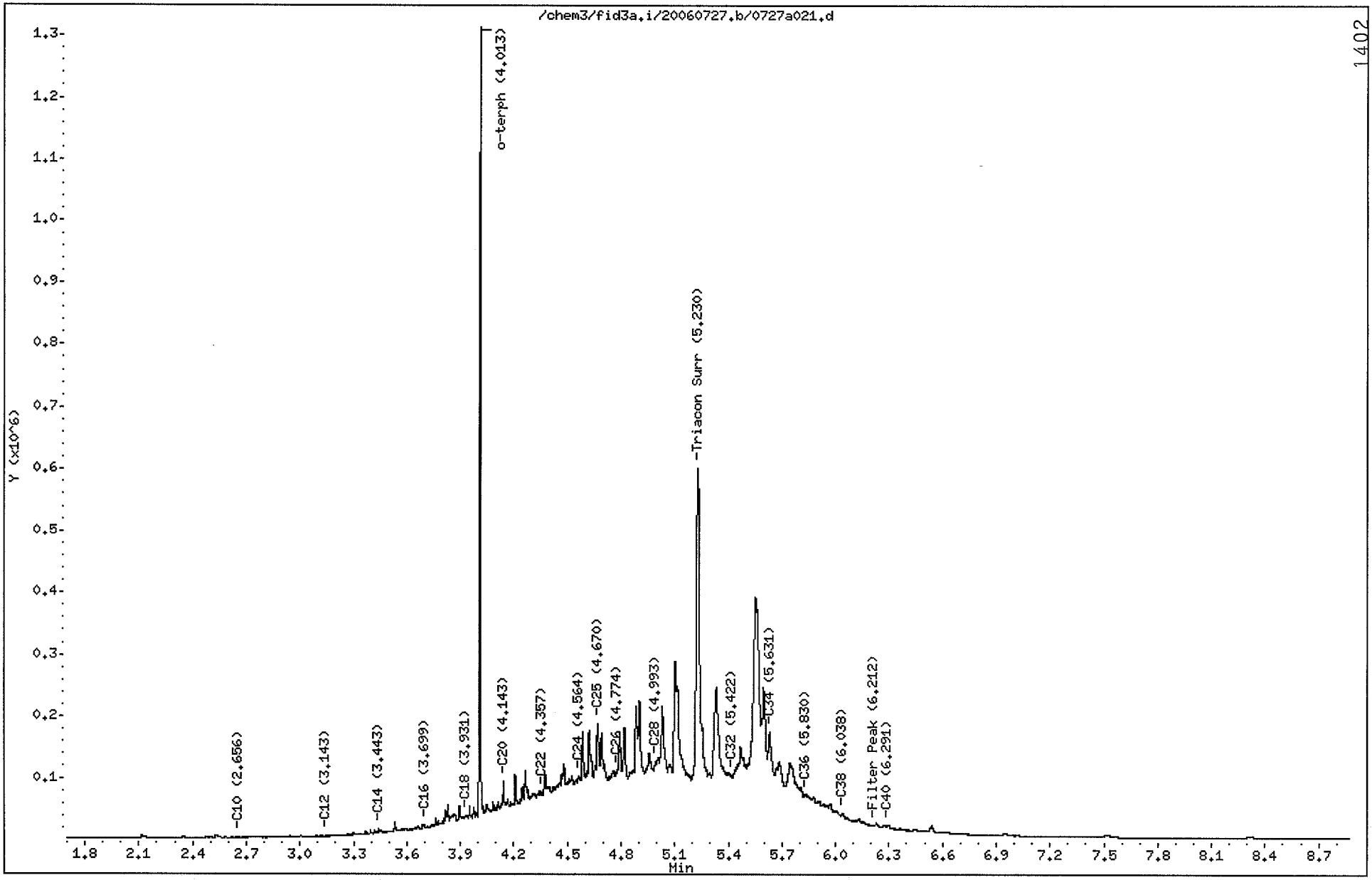
Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a021.d
Date : 27-JUL-2006 12:19
Client ID:
Sample Info: JQ33I

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a022.d ARI ID: JQ33J
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 12:34
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.241	-0.012	31601	39135	GAS (Tol-C12)	261561	20
C8	1.423	-0.015	7408	9827	DIESEL (C12-C24)	2712102	219
C10	2.656	-0.003	1165	1021	M.OIL (C24-C38)	9837161	1043
C12	3.145	0.008	4127	3410	AK-102 (C10-C25)	2772452	191
C14	3.444	0.002	12666	7937	AK-103 (C25-C36)	9365823	1475
C16	3.700	0.001	16170	11535			
C18	3.926	-0.005	26129	14678			
C20	4.145	-0.002	52251	39335			
C22	4.364	0.006	54959	13953	STODDARD (C8-C12)	113368	8
C24	4.568	0.002	82167	65137			
C25	4.676	0.005	157285	136863			
C26	4.779	0.003	91041	17965			
C28	4.990	0.002	103672	46608			
C32	5.413	-0.007	107435	111067			
C34	5.631	0.003	157809	149099			
Filter Peak	6.217	-0.002	20613	4481			
C36	5.824	-0.007	68142.0	24335	o-Terph Surrogate Rec = 79.7%		(652511)
C38	6.043	0.006	43965.0	71097	Triacon Surrogate Rec = 82.3%		(565764)
C40	6.290	0.002	20676	13359			
o-terph	4.015	0.009	1338542	652511	JET-A (C10-C18)	707283	61
Triacon Surr	5.232	0.019	559637	565764			

JR 07/28/06

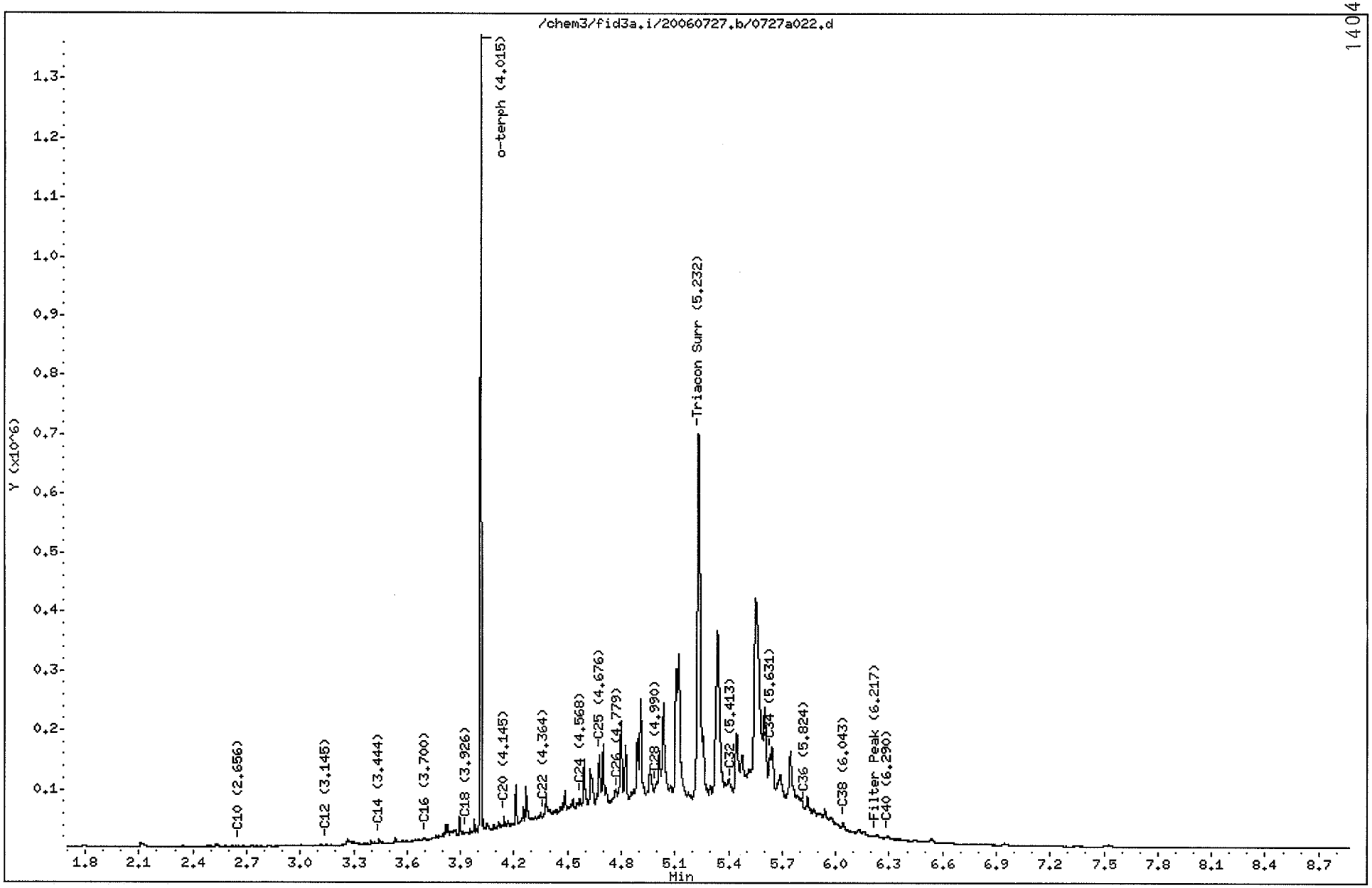
Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a022.d
Date : 27-JUL-2006 12:34
Client ID:
Sample Info: JQ33J

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a023.d ARI ID: JQ33K
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 12:50
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.010	33174	40021	GAS (Tol-C12)	280929	21
C8	1.422	-0.016	13859	14333	DIESEL (C12-C24)	3172529	256
C10	2.656	-0.002	1527	1319	M.OIL (C24-C38)	9155895	971
C12	3.129	-0.008	3479	2624	AK-102 (C10-C25)	3241817	223
C14	3.445	0.003	12068	8222	AK-103 (C25-C36)	8669643	1366
C16	3.701	0.003	17426	12364			
C18	3.927	-0.003	28356	20265			
C20	4.148	0.001	60087	41160			
C22	4.360	0.003	59861	11867	STODDARD (C8-C12)	134910	9
C24	4.561	-0.004	89666	14194			
C25	4.677	0.007	149192	148372			
C26	4.781	0.005	97645	23258			
C28	4.991	0.003	111123	41171			
C32	5.418	-0.001	100183	54635			
C34	5.631	0.003	141889	220503			
Filter Peak	6.219	0.000	20900	5801			
C36	5.829	-0.002	63582.0	27313	o-Terph Surrogate Rec = 80.9%		(662099)
C38	6.040	0.004	37121.0	42013	Triacon Surrogate Rec = 75.5%		(519317)
C40	6.285	-0.003	20028	6312			
o-terph	4.017	0.011	1306232	662099	JET-A (C10-C18)	797704	69
Triacon Surr	5.234	0.022	547819	519317			

JR 07/28/06

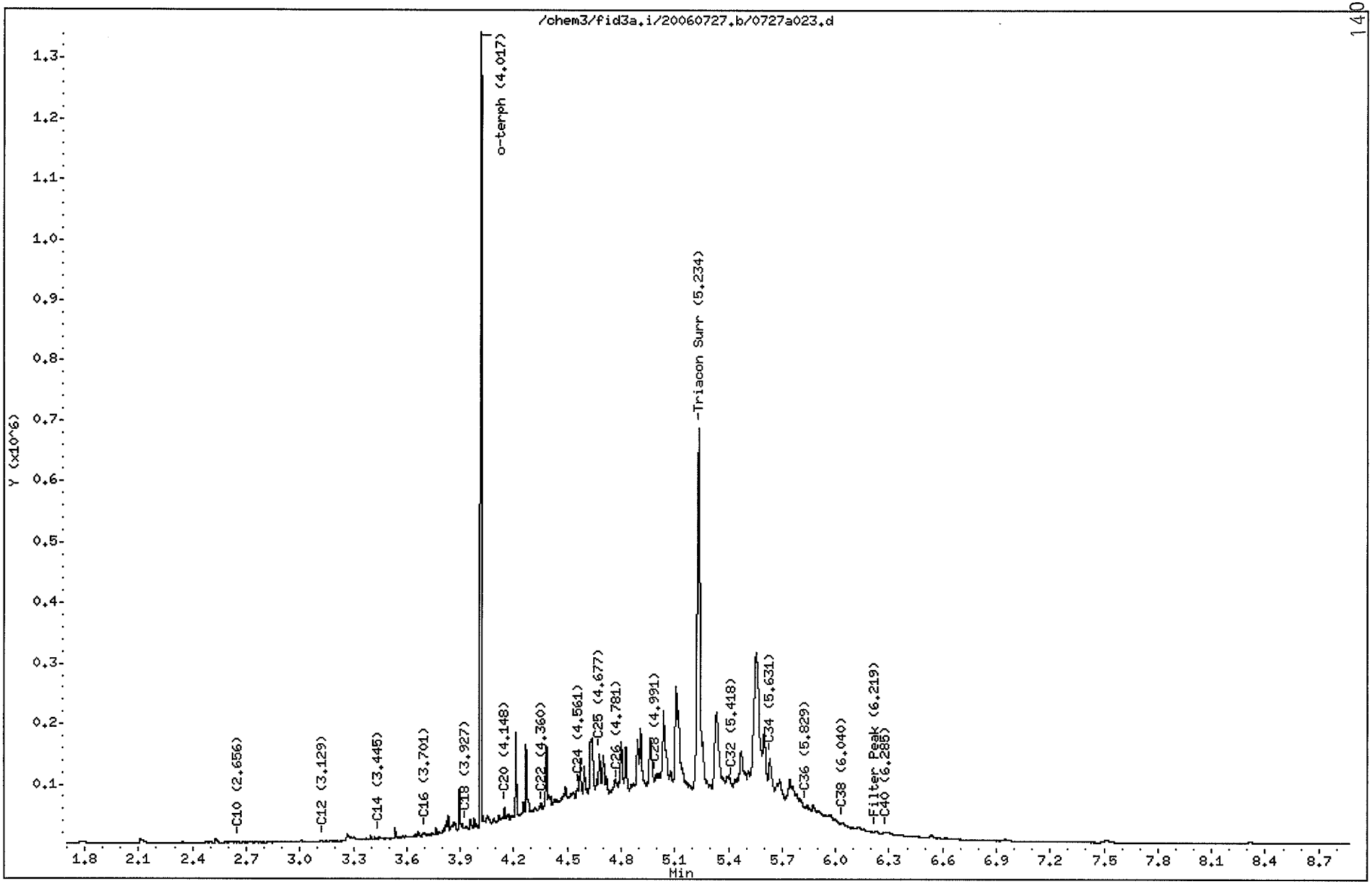
Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a023.d
Date : 27-JUL-2006 12:50
Client ID:
Sample Info: JQ33K

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a024.d ARI ID: JQ33L
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 13:06
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.245	-0.008	23673	30388	GAS (Tol-C12)	263733	20
C8	1.419	-0.019	24655	20192	DIESEL (C12-C24)	3777729	305
C10	2.656	-0.003	1483	1599	M.OIL (C24-C38)	10029359	1063
C12	3.144	0.007	4559	3715	AK-102 (C10-C25)	3856404	266
C14	3.443	0.001	16018	10610	AK-103 (C25-C36)	9449130	1488
C16	3.701	0.002	22089	10728			
C18	3.929	-0.002	37170	9584			
C20	4.146	-0.001	89217	55871			
C22	4.358	0.000	74110	14669	STODDARD (C8-C12)	140211	9
C24	4.566	0.001	102623	60281			
C25	4.673	0.002	181494	193902			
C26	4.773	-0.002	109521	42611			
C28	4.985	-0.003	121119	46677			
C32	5.420	0.000	104244	14496			
C34	5.630	0.001	158196	167715			
Filter Peak	6.219	0.000	23960	7039			
C36	5.827	-0.005	71325.0	35283	o-Terph Surrogate Rec = 72.4%		(592617)
C38	6.038	0.001	43282.0	52684	Triacon Surrogate Rec = 67.0%		(460651)
C40	6.288	-0.001	21802	3466			
o-terph	4.015	0.009	1241935	592617	JET-A (C10-C18)	1004862	87
Triacon Surr	5.229	0.016	455383	460651			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a024.d

Date : 27-JUL-2006 13:06

Client ID:

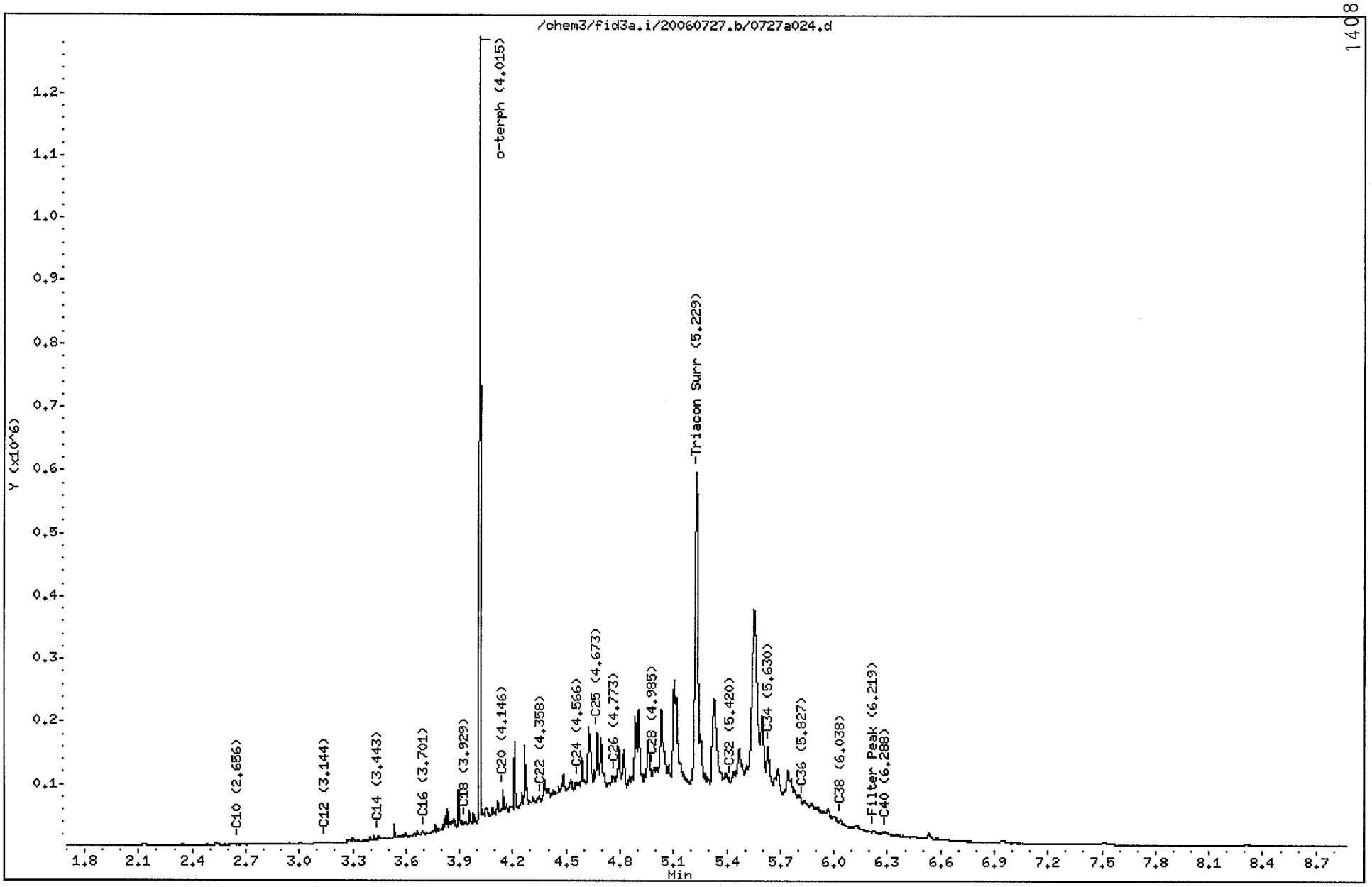
Sample Info: JQ33L

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a025.d ARI ID: JQ33M
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 13:21
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 20
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.221	-0.032	22000	73451	GAS (Tol-C12)	100227	8
C8	1.430	-0.008	2230	2875	DIESEL (C12-C24)	836613	68
C10	2.659	0.001	127	57	M.OIL (C24-C38)	1871577	198
C12	3.125	-0.011	990	850	AK-102 (C10-C25)	846366	58
C14	3.446	0.004	1698	463	AK-103 (C25-C36)	1781322	281
C16	3.700	0.002	5406	4827			
C18	3.936	0.005	7989	6807			
C20	4.145	-0.002	8528	4970			
C22	4.347	-0.011	17724	13958	STODDARD (C8-C12)	26775	2
C24	4.562	-0.003	24797	12815			
C25	4.674	0.003	17869	12239			
C26	4.781	0.005	27649	12641			
C28	4.984	-0.003	34121	38656			
C32	5.413	-0.007	26788	29697			
C34	5.629	0.001	14642	9276			
Filter Peak	6.219	0.000	5271	2897			
C36	5.830	-0.001	11989.0	12279	o-Terph Surrogate Rec = 0.0% (0)		
C38	6.039	0.002	6981.0	4620	Triacon Surrogate Rec = 0.0% (0)		
C40	6.281	-0.007	5439	2581			
o-terph	----				JET-A (C10-C18)	219821	19
Triacon Surr	----						

D

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a025.d

Date : 27-JUL-2006 13:21

Client ID:

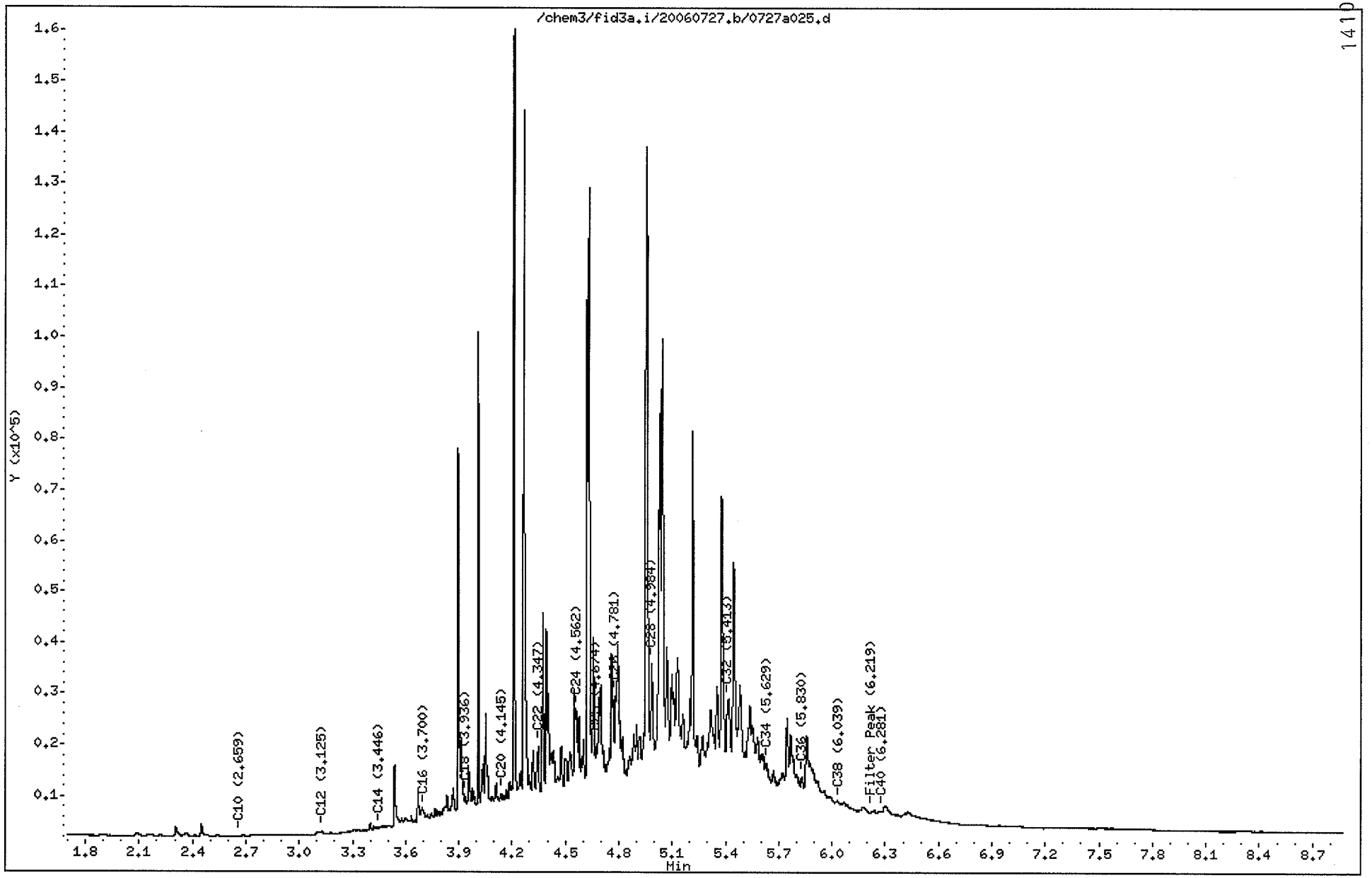
Sample Info: JQ33M,20

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a026.d ARI ID: JQ33N
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 13:37
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 20
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.223	-0.030	23774	76166	GAS (Tol-C12)	108165	8
C8	1.436	-0.002	1460	2083	DIESEL (C12-C24)	1670191	135
C10	2.657	-0.001	94	25	M.OIL (C24-C38)	3539425	375
C12	3.123	-0.014	1547	2289	AK-102 (C10-C25)	1791246	123
C14	3.432	-0.010	4105	3010	AK-103 (C25-C36)	3273712	516
C16	3.696	-0.003	11148	9955			
C18	3.931	0.000	15659	14067			
C20	4.150	0.003	16494	9157			
C22	4.369	0.011	88145	52110	STODDARD (C8-C12)	31998	2
C24	4.569	0.004	44741	34681			
C25	4.670	-0.001	31630	9346			
C26	4.780	0.005	58104	37040			
C28	4.980	-0.008	57769	86799			
C32	5.418	-0.002	49926	37816			
C34	5.628	-0.001	26395	38539			
Filter Peak	6.219	-0.001	7898	3548			
C36	5.829	-0.003	20540.0	21843	o-Terph Surrogate Rec =	0.0%	(0)
C38	6.038	0.001	10842.0	4903	Triacon Surrogate Rec =	0.0%	(0)
C40	6.288	0.000	9699	10965			
o-terph	----				JET-A (C10-C18)	425559	37
Triacon Surr	----						

D

jk 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a026.d

Date : 27-JUL-2006 13:37

Client ID:

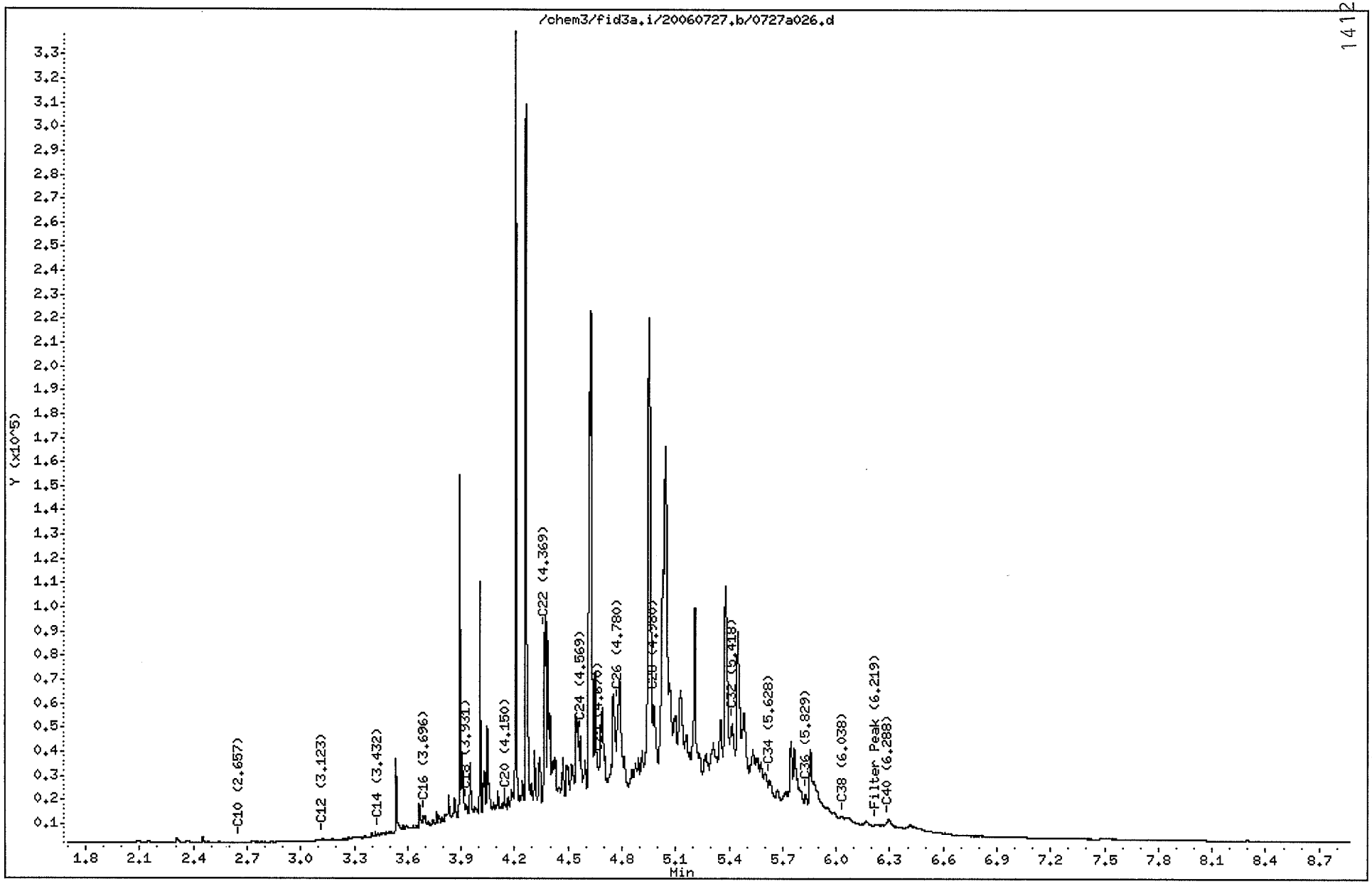
Sample Info: JQ33N,20

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a030.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: JQ330
Client ID:
Injection: 27-JUL-2006 14:40
Dilution Factor: 20

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.220	-0.034	23701	48036	GAS (Tol-C12)	163043	12
C8	1.433	-0.006	1547	2201	DIESEL (C12-C24)	3482635	281
C10	2.660	0.001	554	394	M.OIL (C24-C38)	6810992	722
C12	3.153	0.016	2528	2364	AK-102 (C10-C25)	3540153	244
C14	3.440	-0.002	6444	2926	AK-103 (C25-C36)	6542194	1030
C16	3.693	-0.006	21324	15646			
C18	3.926	-0.005	26840	27981			
C20	4.144	-0.003	24194	11638			
C22	4.346	-0.012	76535	87812	STODDARD (C8-C12)	115007	8
C24	4.574	0.008	93225	99169			
C25	4.657	-0.014	151620	157603			
C26	4.765	-0.011	109887	145313			
C28	4.971	-0.017	362896	815953			
C32	5.428	0.008	115374	57895			
C34	5.621	-0.008	53443	56766			
Filter Peak	6.220	0.000	12255	2188			
C36	5.834	0.003	33330.0	9856	o-Terph Surrogate Rec = 0.0%	(0)	
C38	6.036	-0.001	19418.0	18004	Triacon Surrogate Rec = 0.0%	(0)	
C40	6.282	-0.007	14688	6906			
o-terph	----				JET-A (C10-C18)	890332	77
Triacon Surr	----						

pf 07/28/06

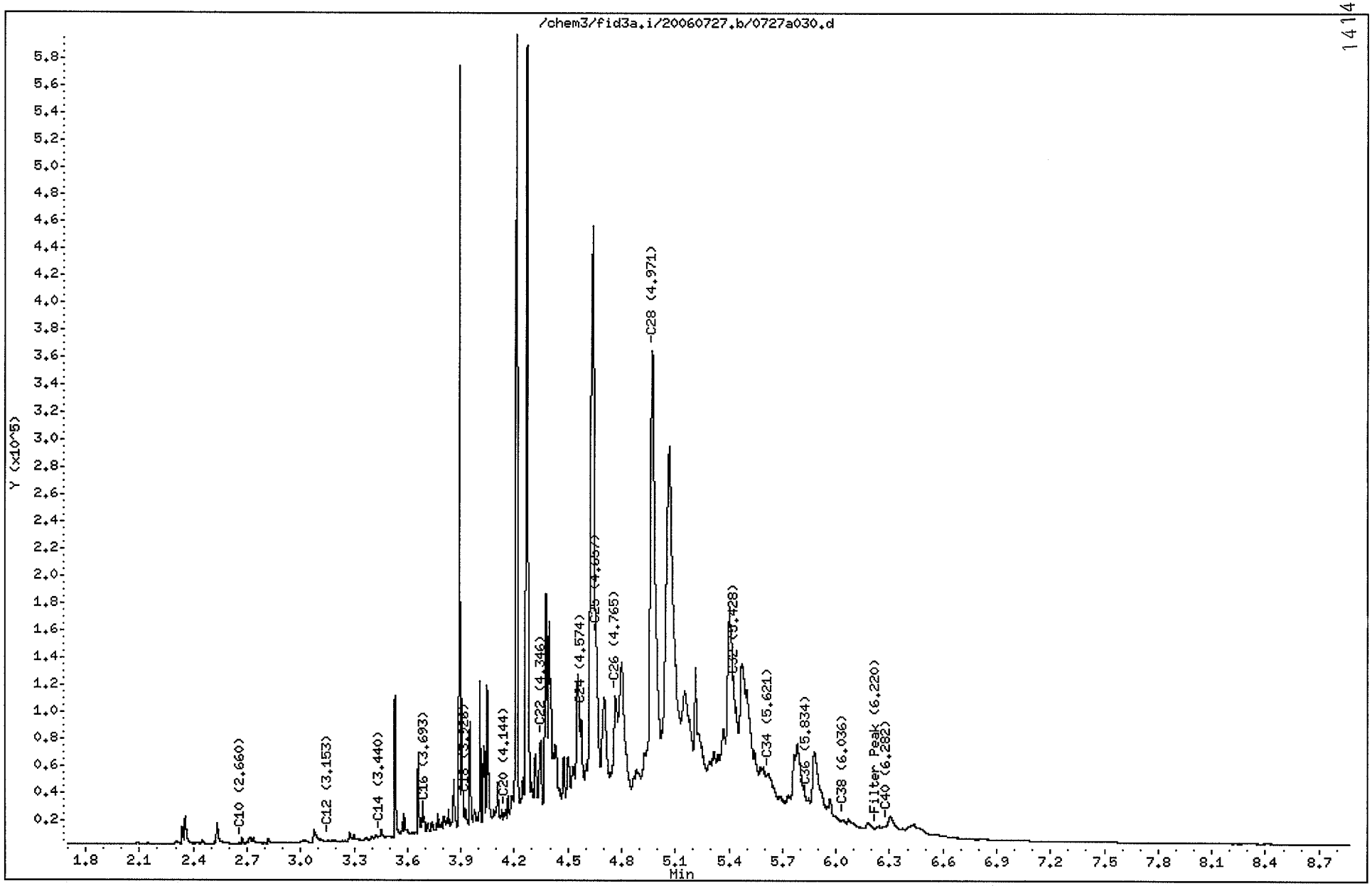
Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a030.d
Date : 27-JUL-2006 14:40
Client ID:
Sample Info: JQ330,20

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a031.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: JQ33P
Client ID:
Injection: 27-JUL-2006 14:56
Dilution Factor: 20

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.222	-0.032	22930	81247	GAS (Tol-C12)	126027	10
C8	1.438	-0.001	1329	2100	DIESEL (C12-C24)	3121641	252
C10	2.663	0.005	181	148	M.OIL (C24-C38)	5950137	631
C12	3.123	-0.014	2041	3235	AK-102 (C10-C25)	3143772	217
C14	3.441	-0.001	4647	3435	AK-103 (C25-C36)	5774182	909
C16	3.694	-0.005	16565	11711			
C18	3.925	-0.006	21632	20686			
C20	4.148	0.001	22190	19959			
C22	4.373	0.015	180859	149552	STODDARD (C8-C12)	44779	3
C24	4.573	0.007	90666	89742			
C25	4.700	0.029	112248	227163			
C26	4.778	0.003	88286	17449			
C28	4.969	-0.019	366216	529447			
C32	5.432	0.012	97343	66758			
C34	5.634	0.006	41512	32344			
Filter Peak	6.223	0.003	9924	6107			
C36	5.836	0.004	26523.0	8384	o-Terph Surrogate Rec = 0.0%	(0)	D
C38	6.034	-0.003	16384.0	15067	Triacon Surrogate Rec = 0.0%	(0)	D
C40	6.280	-0.009	10556	3306			
o-terph	----				JET-A (C10-C18)	734273	63
Triacon Surr	----						

JL 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a031.d

Date : 27-JUL-2006 14:56

Client ID:

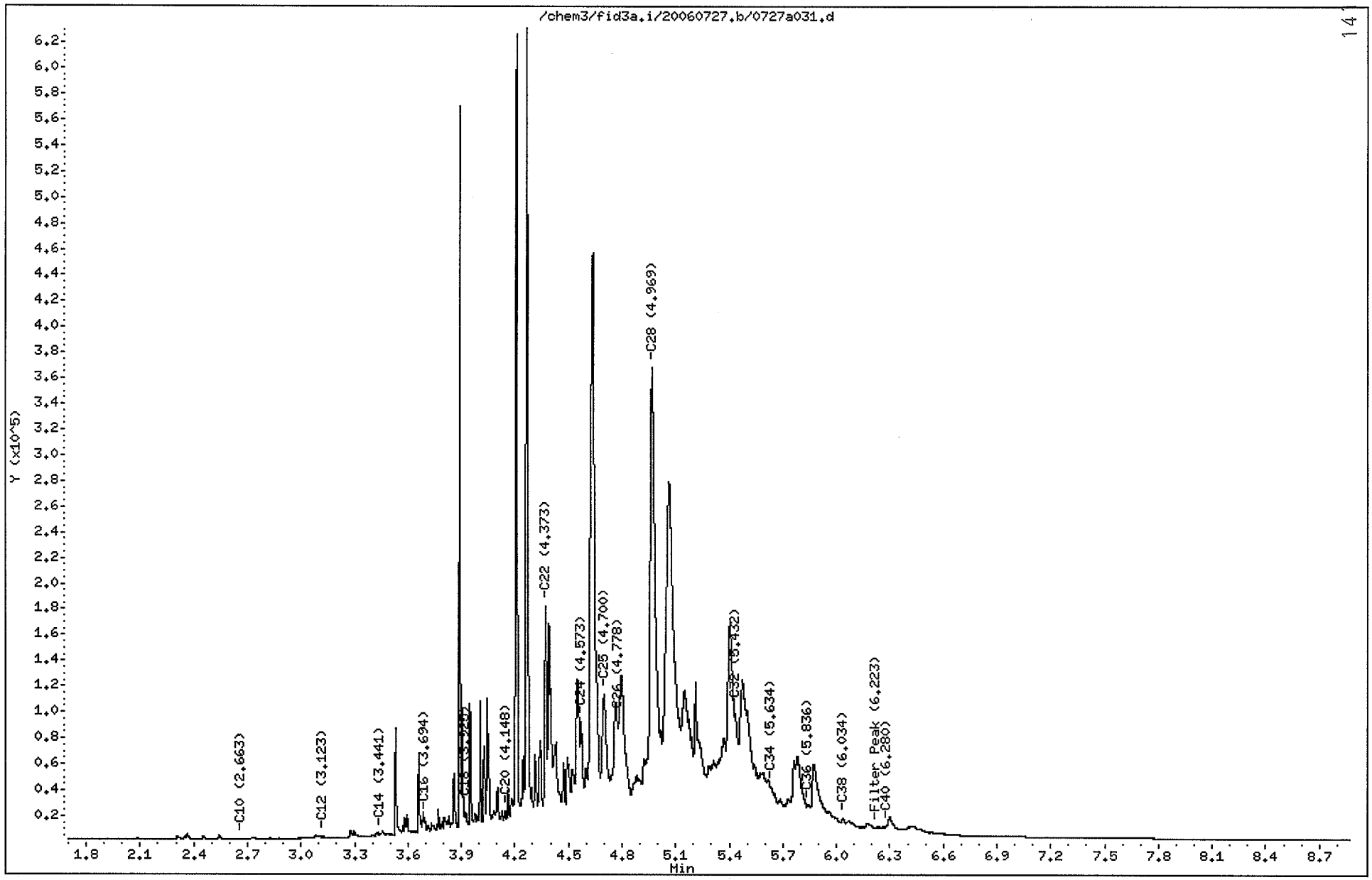
Instrument: fid3a.i

Sample Info: JQ33P,20

Operator: JR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a032.d ARI ID: JQ33Q
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 15:11
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 20
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.223	-0.031	22281	72818	GAS (Tol-C12)	105750	8
C8	1.438	0.000	1135	1658	DIESEL (C12-C24)	2400946	194
C10	2.657	-0.001	113	32	M.OIL (C24-C38)	5457614	579
C12	3.137	0.000	1219	810	AK-102 (C10-C25)	2416861	167
C14	3.431	-0.011	4492	3389	AK-103 (C25-C36)	5217257	822
C16	3.697	-0.002	14716	11740			
C18	3.928	-0.002	19169	8446			
C20	4.147	0.000	20284	8687			
C22	4.351	-0.007	52493	34536	STODDARD (C8-C12)	32932	2
C24	4.564	-0.001	86408	73577			
C25	4.669	-0.002	108624	129121			
C26	4.772	-0.003	90905	119300			
C28	4.971	-0.017	308760	626576			
C32	5.428	0.008	76337	20960			
C34	5.630	0.001	38203	12025			
Filter Peak	6.219	-0.001	9957	2360			
C36	5.836	0.005	28512.0	11908	o-Terph Surrogate Rec =	0.0%	(0)
C38	6.037	0.000	15664.0	13361	Triacon Surrogate Rec =	0.0%	(0) D
C40	6.299	0.011	14619	21479			
o-terph	----				JET-A (C10-C18)	543311	47
Triacon Surr	----						

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

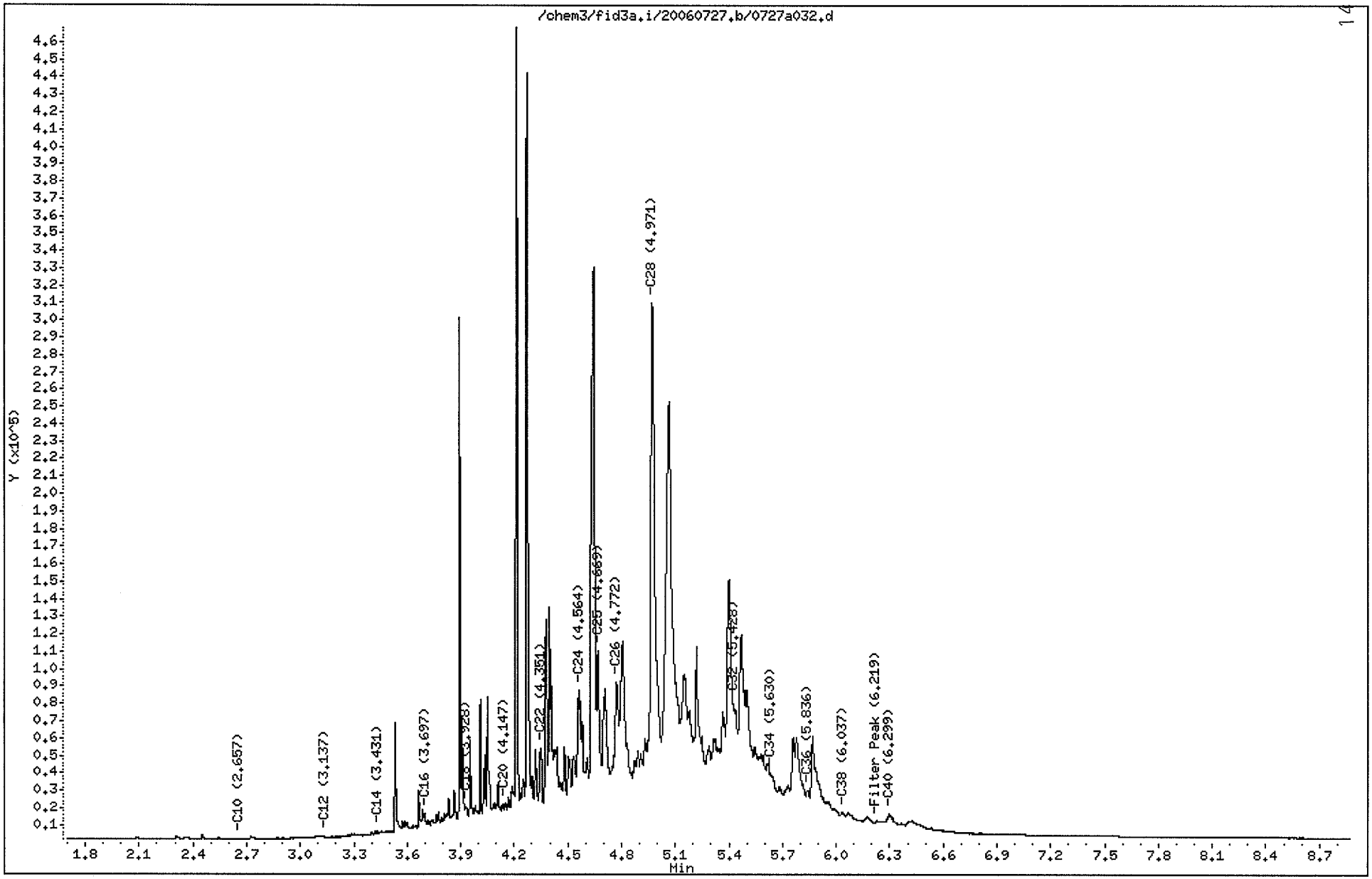
Data File: /chem3/fid3a.i/20060727.b/0727a032.d
Date : 27-JUL-2006 15:11
Client ID:
Sample Info: JQ33Q,20

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1418



NWTPH-Dx Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

Instrument: FID3A.I Project: T4 EARLY ACTION

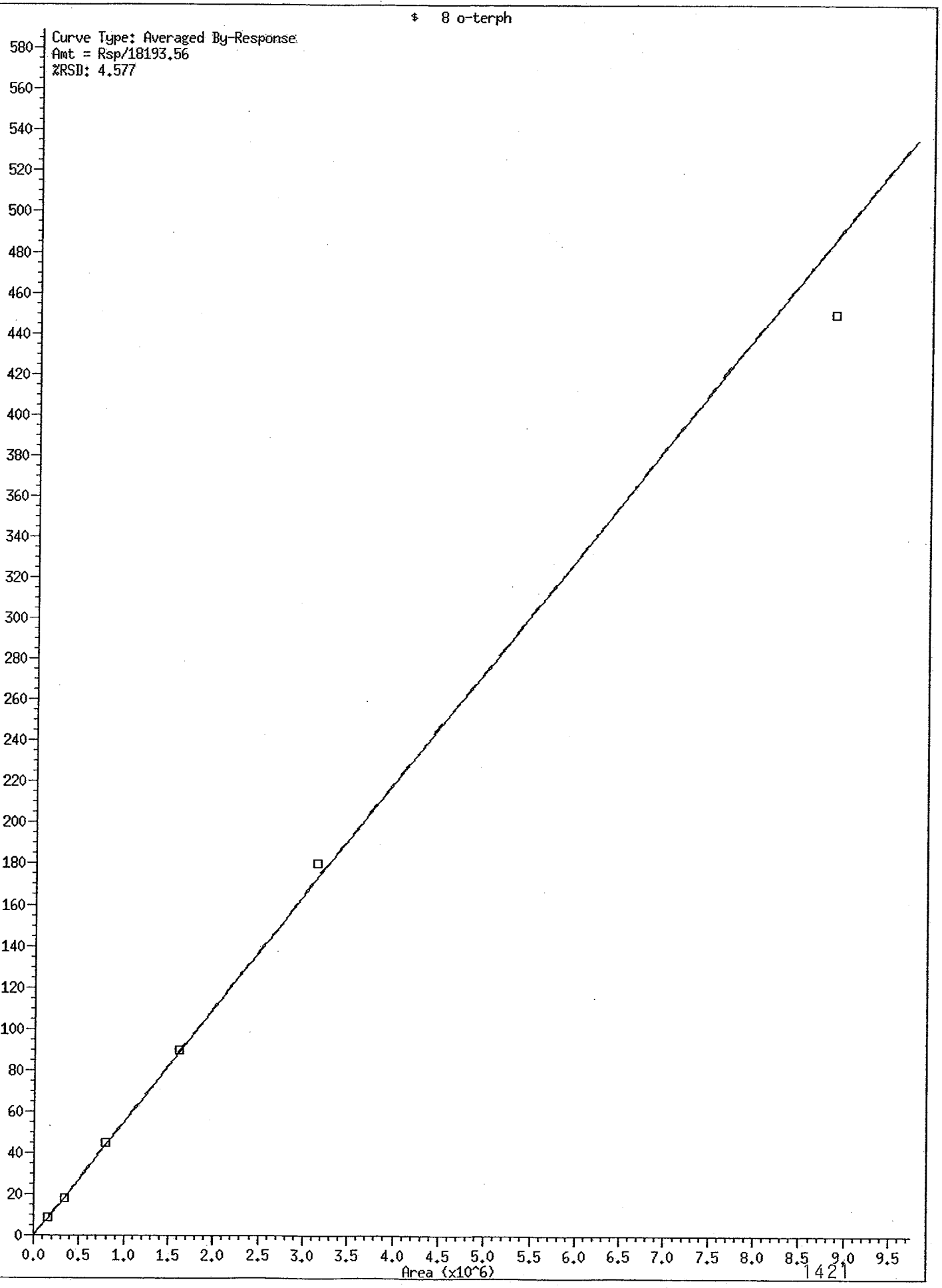
Calibration Date: 15-JUL-2006 SDG No.: JQ33

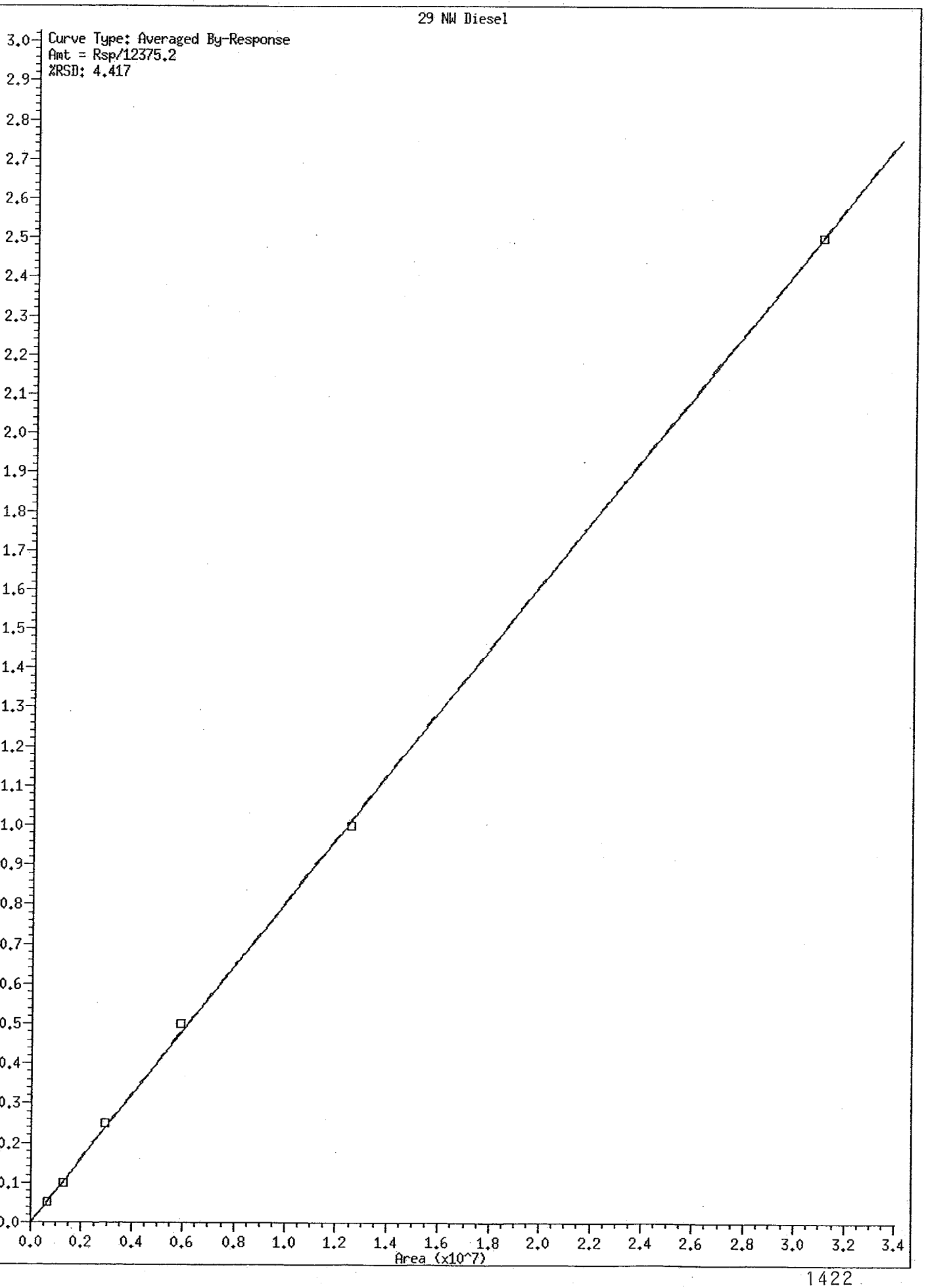
Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	13012	12856	11663	11806	12534	12381	12375	4.4
AK Diesel	15122	15046	13678	13885	14730	14610	14512	4.1
OR Diesel	15396	15264	13849	14059	14911	14802	14714	4.3
o-Terph	17752	18636	17602	18006	17490	19676	18194	4.6

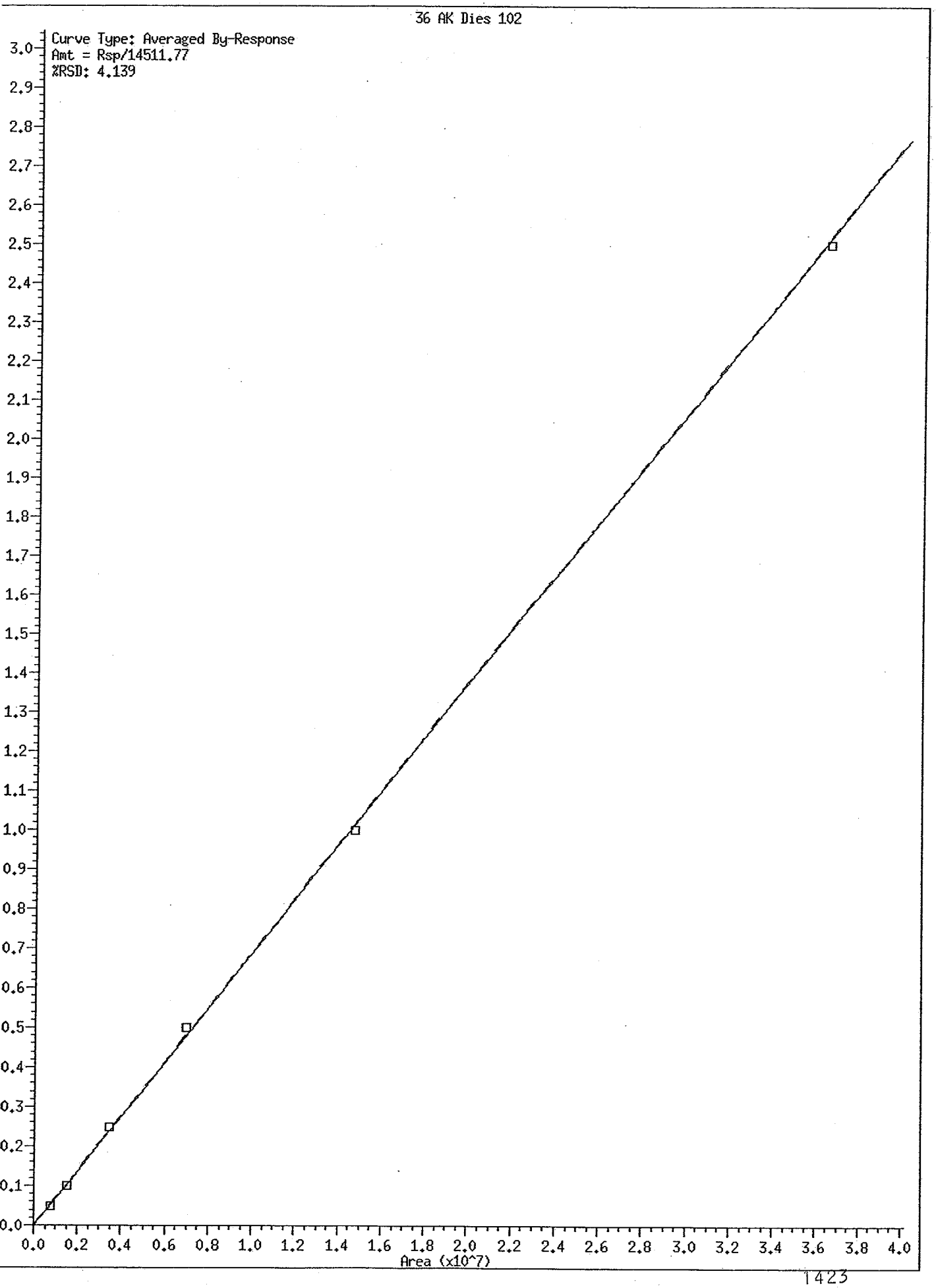
<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.154-4.597)
AK Diesel C10-C25 (2.673-4.704)
OR Diesel C10-C28 (2.673-5.028)

Calibration Files	Analysis Time
0715a014.d	15-JUL-2006 15:37
0715a015.d	15-JUL-2006 15:53
0715a016.d	15-JUL-2006 16:08
0715a017.d	15-JUL-2006 16:24
0715a018.d	15-JUL-2006 16:40
0715a019.d	15-JUL-2006 16:56


$ 8 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/18193.56
%RSD: 4.577
580
560
540
520
500
480
460
440
420
400
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5
Area (x10^6)


29 NW Diesel
Curve Type: Averaged By-Response
Amt = Rsp/12375.2
%RSD: 4.417
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4
Area (x10^7)


36 AK Dies 102
Curve Type: Averaged By-Response
Amt = Rsp/14511.77
%RSD: 4.139
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0
Area (x10^7)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a011.d ARI ID: RT
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 14:49
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.262	0.000	412228	340156	GAS (Tol-C12)	1001018	52
8	1.450	0.000	250867	220714	DIESEL (C12-C24)	1466162	118
10	2.673	0.000	453857	199354	M.OIL (C24-C38)	1787458	190
12	3.154	0.000	676168	214543	AK-102 (C10-C25)	1893397	130
14	3.460	0.000	759151	217474	AK-103 (C25-C36)	1557006	245
16	3.720	0.000	727083	229570			
18	3.953	0.000	559507	232304			
20	4.172	0.000	601693	235527			
22	4.386	0.000	556374	236095	STODDARD (C8-C12)	656708	44
24	4.597	0.000	519229	239695			
25	4.704	0.000	604958	315813			
26	4.810	0.000	494768	241476			
28	5.028	0.000	422434	236266			
32	5.466	0.000	429725	239759			
34	5.680	0.000	385033	234089			
ilter Peak	6.229	0.000	2860	5424			
36	5.887	0.000	413247.0	239088	o-Terph Surrogate Rec = 89.5%	(732763)	
38	6.107	0.000	286846.0	214323	Triacon Surrogate Rec = 106.3%	(730826)	
40	6.384	0.000	218670	196573			
-terph	4.030	0.000	1577843	732763	JET-A (C10-C18)	1169950	101
riacon Surr	5.258	0.000	918305	730826			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

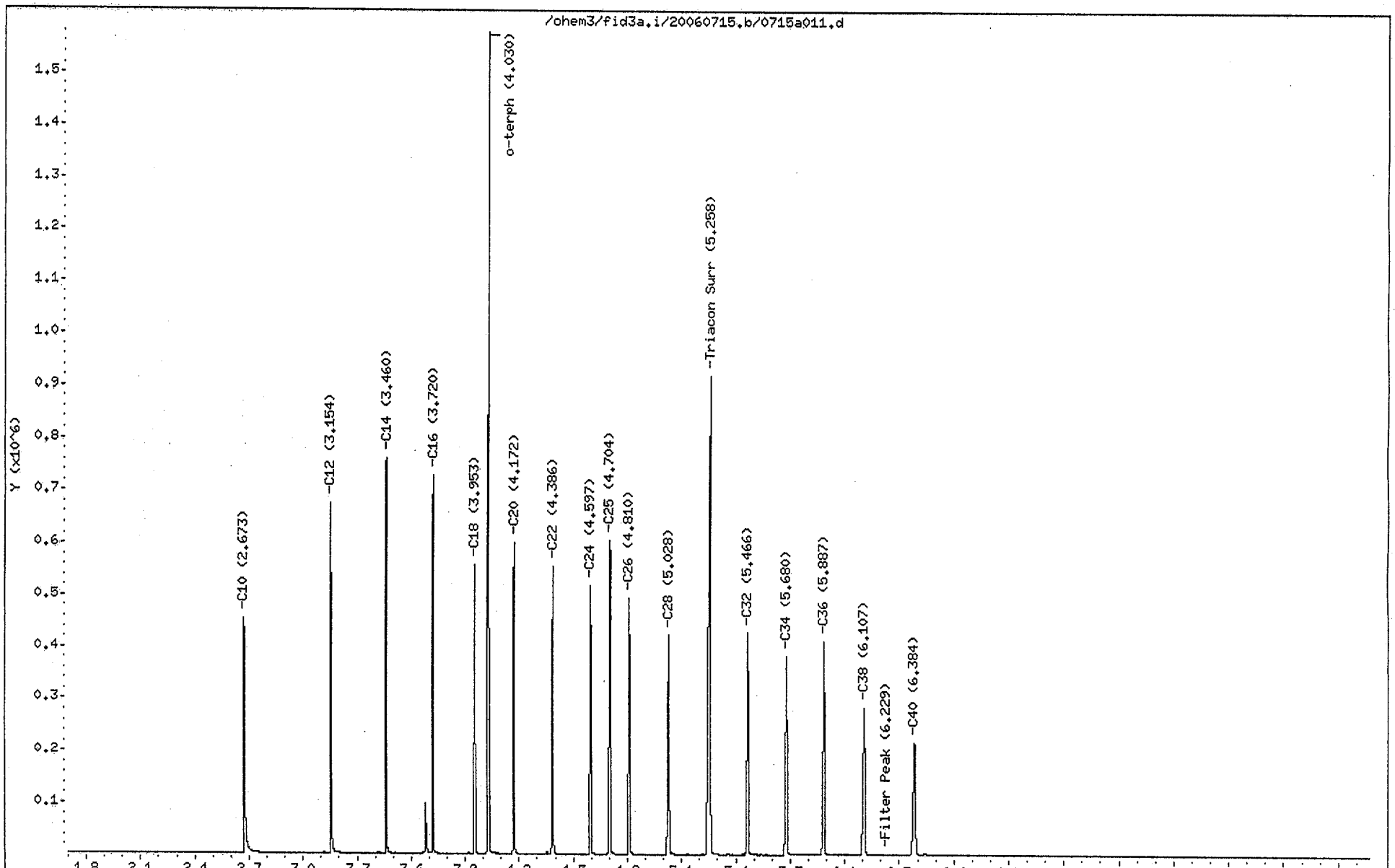
Data File: /chem3/fid3a.i/20060715.b/0715a011.d
Date : 15-JUL-2006 14:49
Client ID:
Sample Info: RT

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1425



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a012.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: IB
Client ID:
Injection: 15-JUL-2006 15:05

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	9037	0
C8	1.425	-0.026	758	696	DIESEL (C12-C24)	63985	5
C10	2.676	0.002	105	47	M.OIL (C24-C38)	82101	9
C12	3.154	0.000	129	47	AK-102 (C10-C25)	67608	5
C14	3.460	-0.001	143	106	AK-103 (C25-C36)	58548	9
C16	3.680	-0.041	95486	47438			
C18	3.956	0.003	259	148			
C20	4.174	0.002	413	394			
C22	4.387	0.001	431	315	STODDARD (C8-C12)	9037	1
C24	4.597	0.000	390	389			
C25	4.703	-0.001	365	380			
C26	4.812	0.002	389	431			
C28	5.025	-0.003	949	830			
C32	5.462	-0.004	3122	3254			
C34	5.676	-0.004	1224	1333			
Filter Peak	6.232	0.002	2042	852			
C36	5.883	-0.004	1793.0	2543	o-Terph Surrogate Rec = 87.4%		(715593)
C38	6.103	-0.004	2120.0	3156	Triacon Surrogate Rec = 102.9%		(707174)
C40	6.379	-0.005	2166	4290			
o-terph	4.031	0.001	1529747	715593	JET-A (C10-C18)	57875	5
Triacon Surr	5.259	0.001	849057	707174			

7/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

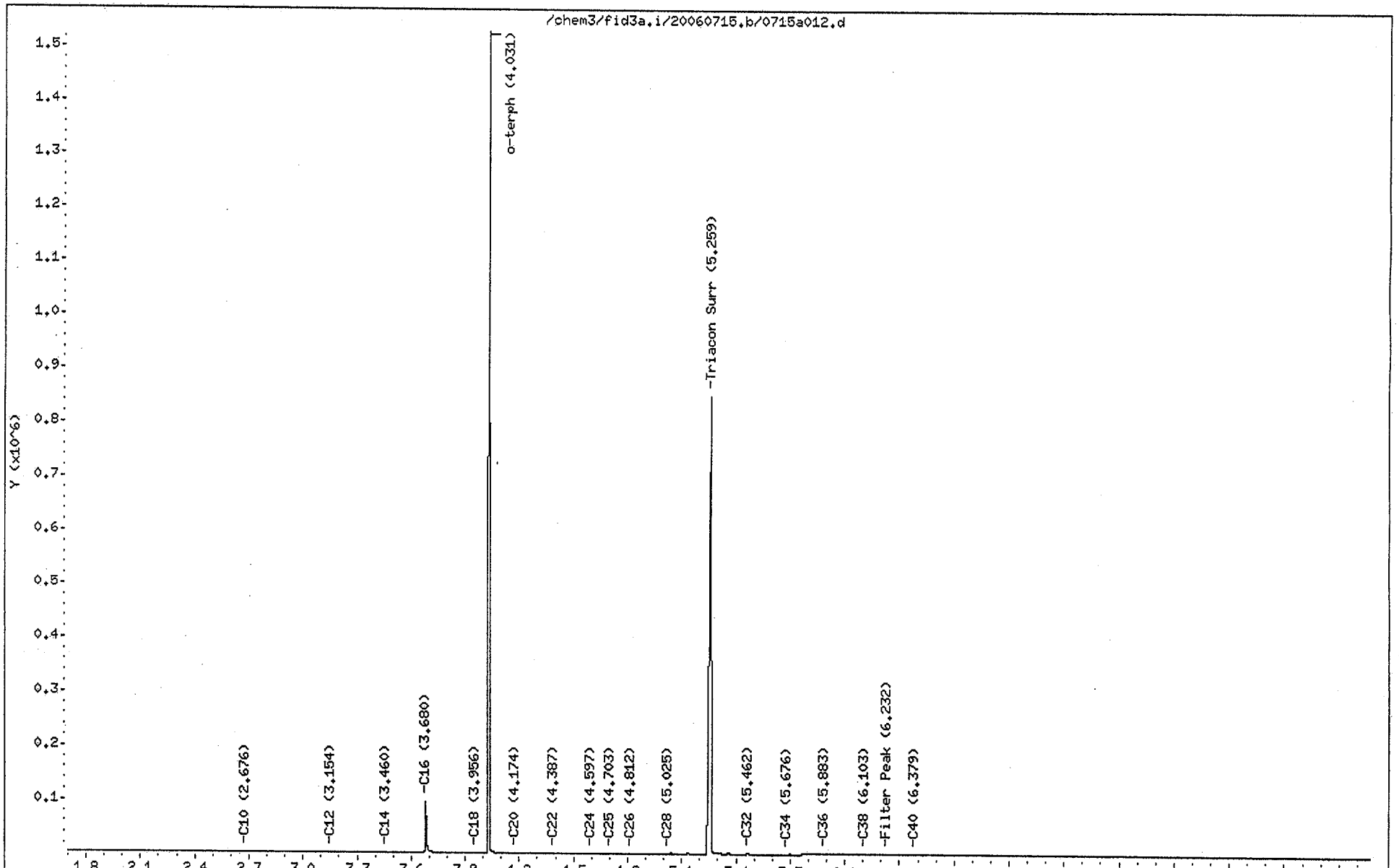
Data File: /chem3/fid3a.i/20060715.b/0715a012.d
Date : 15-JUL-2006 15:05
Client ID:
Sample Info: IB

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1427



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a014.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: 50 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 15:37

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.269	0.007	6903	16909	GAS (Tol-C12)	151028	8
C8	1.434	-0.016	794	1241	DIESEL (C12-C24)	650607	53
C10	2.676	0.003	895	661	M.OIL (C24-C38)	66116	7
C12	3.158	0.004	16589	13202	AK-102 (C10-C25)	756109	52
C14	3.461	0.001	33043	18851	AK-103 (C25-C36)	48729	8
C16	3.719	-0.001	39331	23811			
C18	3.952	-0.001	31049	16145			
C20	4.171	-0.001	19921	10389			
C22	4.385	-0.002	7299	4596	STODDARD (C8-C12)	127597	8
C24	4.595	-0.002	2759	2982			
C25	4.701	-0.003	1595	1592			
C26	4.809	-0.001	955	1277			
C28	5.025	-0.003	437	293			
C32	5.468	0.002	542	86			
C34	5.678	-0.001	893	631			
Filter Peak	6.227	-0.002	1778	424			
C36	5.891	0.005	1454.0	574	o-Terph Surrogate Rec = 19.5%		(159772)
C38	6.110	0.003	1775.0	1162	Triacon Surrogate Rec = 0.0%		(117)
C40	6.389	0.004	1751	1182			
o-terph	4.026	-0.004	481364	159772	JET-A (C10-C18)	594113	51
Triacon Surr	5.264	0.007	372	117			

07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

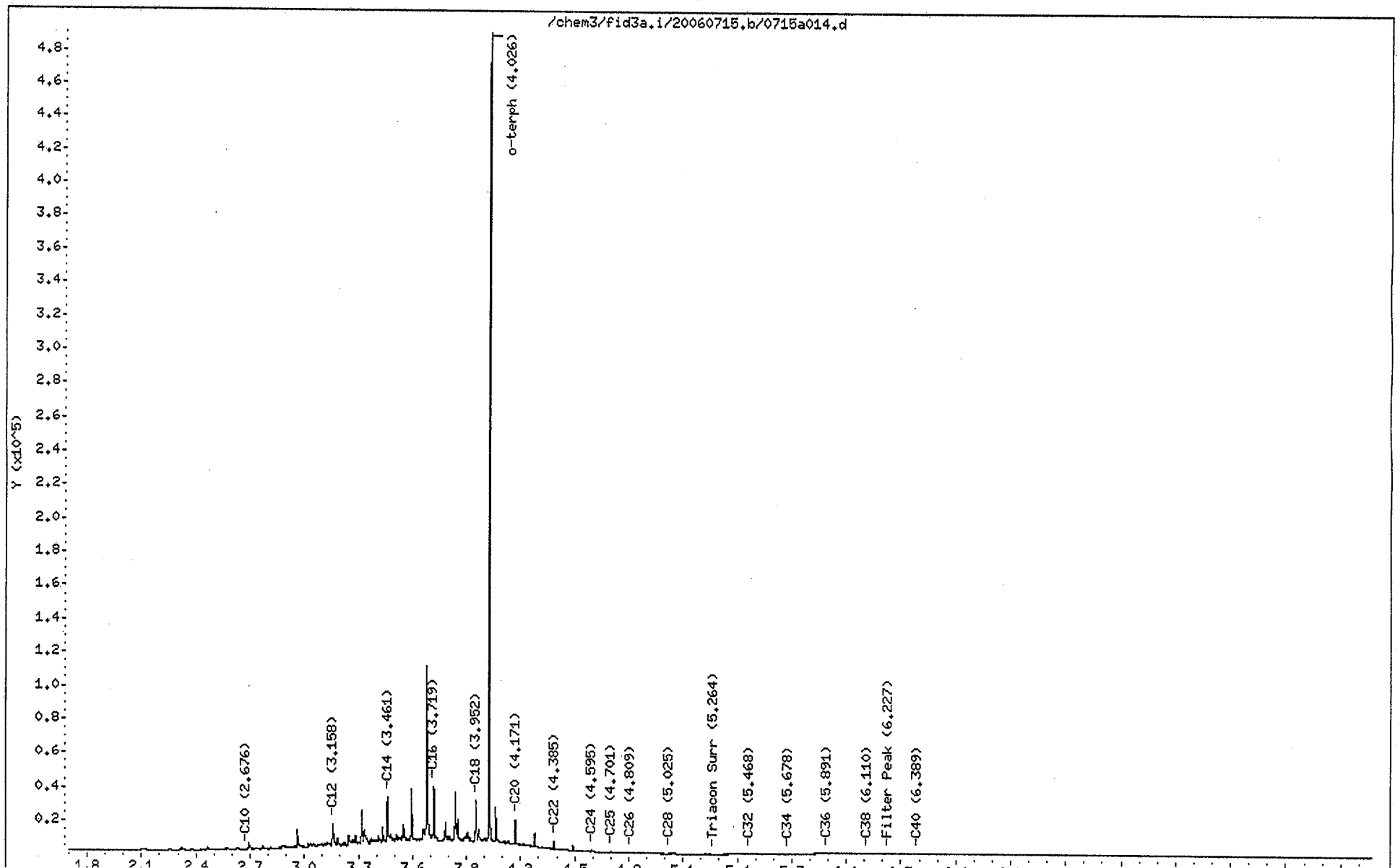
Data File: /chem3/fid3a.i/20060715.b/0715a014.d
Date : 15-JUL-2006 15:37
Client ID:
Sample Info: 50 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1429



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a015.d ARI ID: 100 PPM DIESEL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 15:53
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.271	0.009	7080	13284	GAS (Tol-C12)	279179	15
C8	1.458	0.008	456	134	DIESEL (C12-C24)	1285631	104
C10	2.674	0.001	1747	1204	M.OIL (C24-C38)	74375	8
C12	3.157	0.004	44837	22238	AK-102 (C10-C25)	1504564	103
C14	3.461	0.001	71777	31918	AK-103 (C25-C36)	55157	9
C16	3.720	0.000	86796	37234			
C18	3.952	-0.001	65202	32061			
C20	4.169	-0.002	43820	22108			
C22	4.383	-0.003	15277	9136	STODDARD (C8-C12)	260246	17
C24	4.592	-0.005	5794	5084			
C25	4.698	-0.006	3161	3100			
C26	4.805	-0.005	1693	2160			
C28	5.023	-0.005	578	533			
C32	5.471	0.005	494	154			
C34	5.673	-0.007	1022	1234			
Filter Peak	6.227	-0.002	1668	699			
C36	5.889	0.003	1339.0	477	o-Terph Surrogate Rec = 41.0%		(335447)
C38	6.111	0.004	1632.0	747	Triacon Surrogate Rec = 0.0%		(217)
C40	6.385	0.001	1619	645			
o-terph	4.027	-0.002	945244	335447	JET-A (C10-C18)	1171472	101
Triacon Surr	5.260	0.002	354	217			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

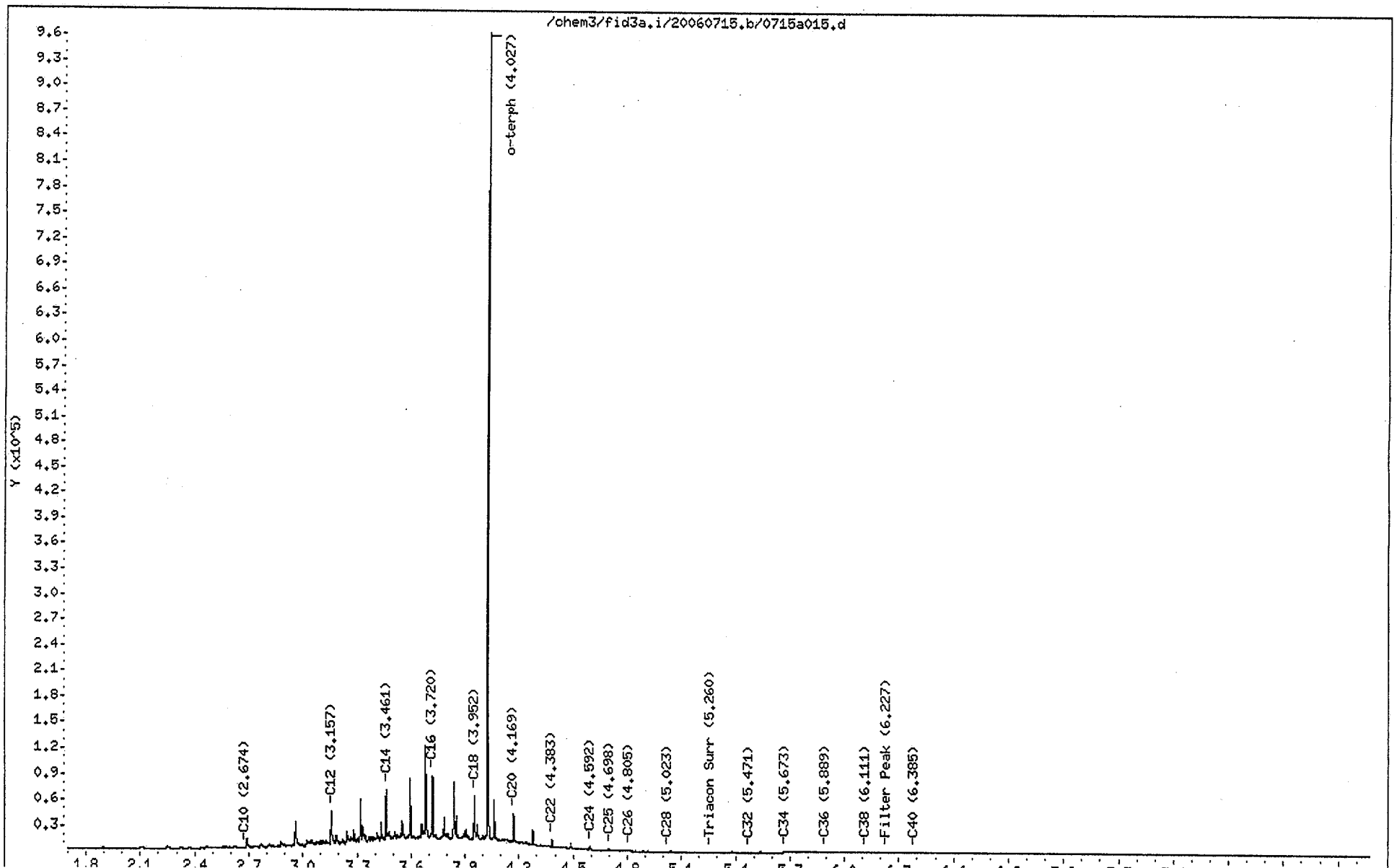
Data File: /chem3/fid3a.i/20060715.b/0715a015.d
Date : 15-JUL-2006 15:53
Client ID:
Sample Info: 100 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1431



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a016.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: 250 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 16:08

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.268	0.006	10272	14708	GAS (Tol-C12)	641169	34
C8	1.466	0.016	4109	4060	DIESEL (C12-C24)	2915740	236
C10	2.671	-0.002	4117	2767	M.OIL (C24-C38)	92562	10
C12	3.154	0.001	128065	54370	AK-102 (C10-C25)	3419417	234
C14	3.460	0.000	170308	77024	AK-103 (C25-C36)	73350	12
C16	3.720	0.000	199255	88014			
C18	3.953	0.000	140894	86489			
C20	4.170	-0.001	101020	48641			
C22	4.383	-0.003	36777	19411	STODDARD (C8-C12)	610268	41
C24	4.592	-0.005	13433	10593			
C25	4.697	-0.007	7543	6049			
C26	4.805	-0.005	3903	4087			
C28	5.023	-0.004	1014	871			
C32	5.471	0.005	476	188			
C34	5.671	-0.008	801	981			
Filter Peak	6.227	-0.002	1576	593			
C36	5.885	-0.002	1257.0	447	o-Terph Surrogate Rec = 96.7%		(792076)
C38	6.110	0.003	1518.0	878	Triacon Surrogate Rec = 0.0%		(236)
C40	6.388	0.004	1498	388			
o-terph	4.031	0.002	1615933	792076	JET-A (C10-C18)	2635654	228
Triacon Surr	5.257	0.000	378	236			

JR 07/19/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

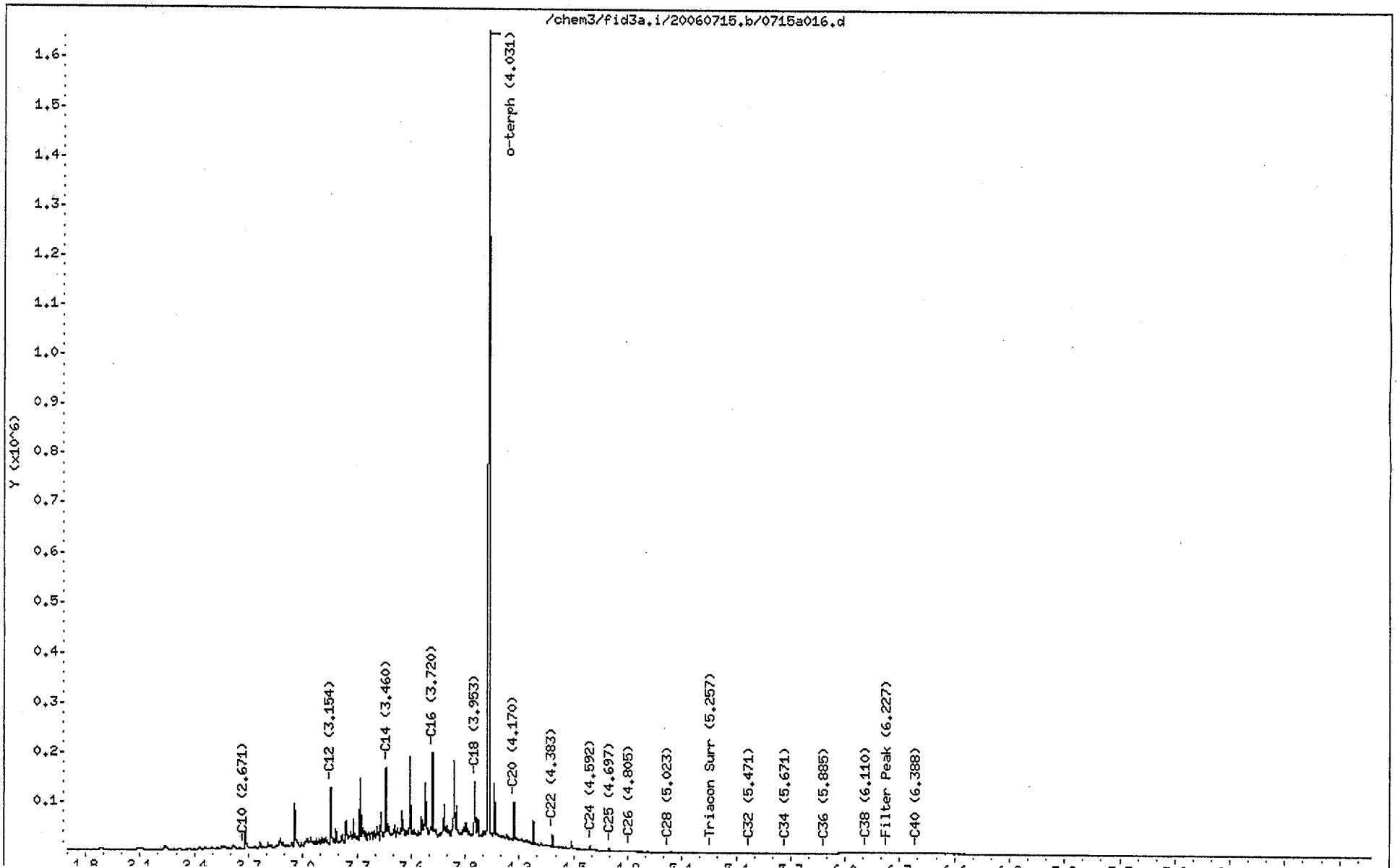
Data File: /chem3/fid3a.i/20060715.b/0715a016.d
Date : 15-JUL-2006 16:08
Client ID:
Sample Info: 250 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1433



Analytical Resources Inc.
TPH Quantitation Report

)ata file: /chem3/fid3a.i/20060715.b/0715a017.d ARI ID: 500 PPM DIESEL
!ethod: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
:nstrument: fid3a.i Injection: 15-JUL-2006 16:24
)perator: JR
:eport Date: 07/18/2006 Dilution Factor: 1
!acro: 15-MAR-2006
:alibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

'ompound	RT	Shift	Height	Area	Range	Total Area	Conc
'oluene	1.272	0.010	12935	16655	GAS (Tol-C12)	1281510	67
'8	1.434	-0.016	2262	2472	DIESEL (C12-C24)	5902829	477
'10	2.668	-0.005	8507	5311	M.OIL (C24-C38)	144869	15
'12	3.154	0.000	282009	112497	AK-102 (C10-C25)	6942316	476
'14	3.461	0.000	351189	164143	AK-103 (C25-C36)	124724	20
'16	3.721	0.001	374614	184254			
'18	3.956	0.003	252301	168431			
20	4.173	0.002	195988	96164			
22	4.386	-0.001	73983	38044	STODDARD (C8-C12)	1245238	83
24	4.593	-0.004	28626	27221			
25	4.699	-0.006	15596	13430			
26	4.805	-0.005	7979	8222			
28	5.022	-0.006	1982	1518			
32	5.460	-0.006	621	747			
34	5.673	-0.007	891	1098			
ilter Peak	6.231	0.002	1395	666			
36	5.892	0.005	1234.0	975	o-Terph Surrogate Rec = 197.9%		(1620546)
38	6.108	0.001	1465.0	233	Triacon Surrogate Rec = 0.0%		(259)
40	6.387	0.003	1340	265			
-terph	4.039	0.010	2247169	1620546	JET-A (C10-C18)	5341260	461
riacon Surr	5.266	0.008	490	259			

JR 07/18/06

ange Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

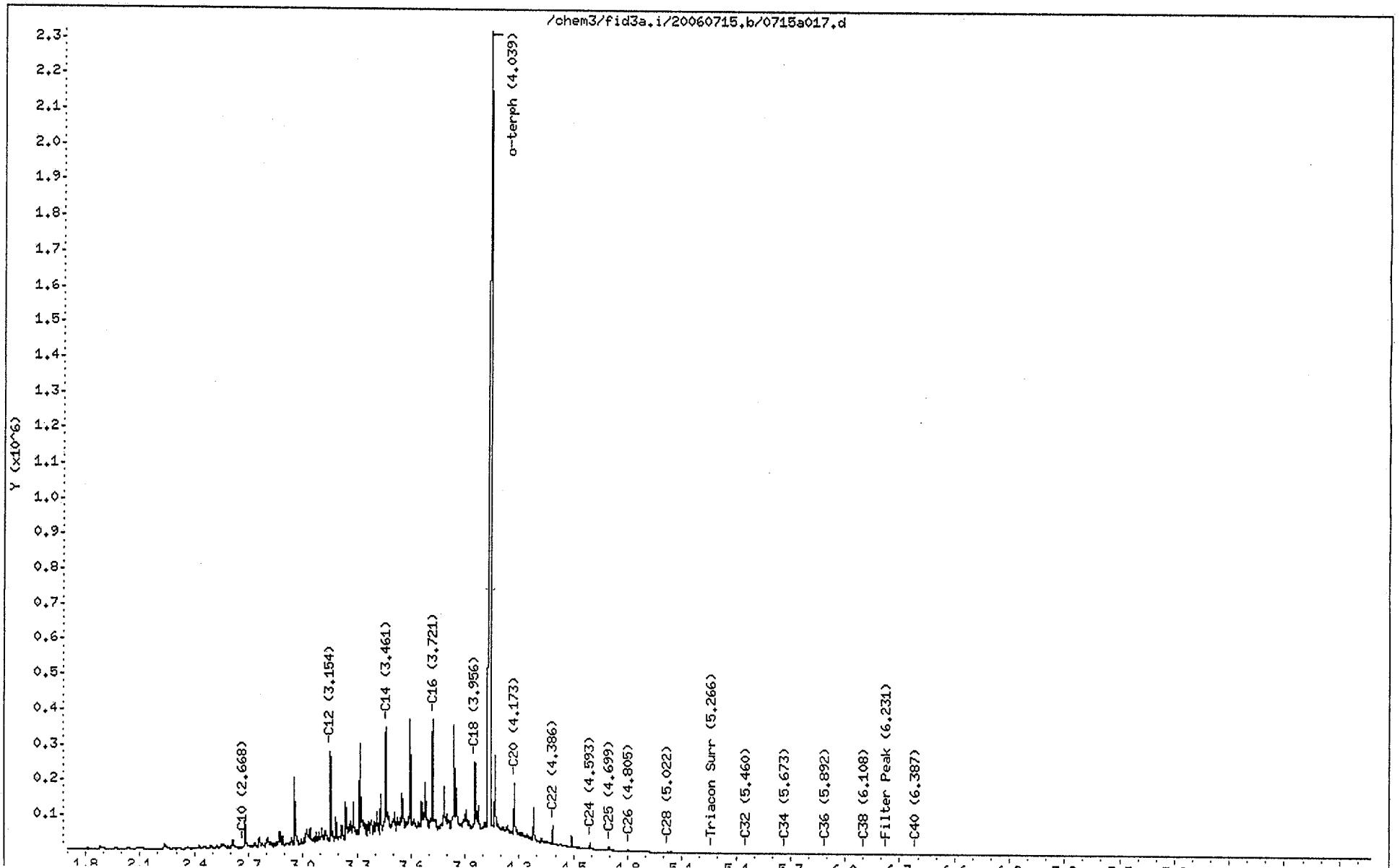
Data File: /chem3/fid3a.i/20060715.b/0715a017.d
Date : 15-JUL-2006 16:24
Client ID:
Sample Info: 500 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1435



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a018.d ARI ID: 1000 PPM DIESEL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 16:40
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.270	0.008	20680	23077	GAS (Tol-C12)	2742995	144
C8	1.465	0.015	16885	15226	DIESEL (C12-C24)	12533515	1013
C10	2.675	0.002	198156	101447	M.OIL (C24-C38)	271069	29
C12	3.154	0.000	565019	239642	AK-102 (C10-C25)	14730108	1009
C14	3.462	0.002	706670	322060	AK-103 (C25-C36)	247062	39
C16	3.724	0.004	686459	402240			
C18	3.947	-0.005	149580	75851			
C20	4.177	0.005	380784	257005			
C22	4.386	0.000	149740	90565	STODDARD (C8-C12)	2668215	178
C24	4.593	-0.003	57533	44359			
C25	4.698	-0.006	32721	27542			
C26	4.805	-0.005	17478	18531			
C28	5.020	-0.007	4302	3426			
C32	5.458	-0.008	1290	2508			
C34	5.671	-0.008	1996	2589			
Filter Peak	6.228	-0.001	1686	974			
C36	5.884	-0.002	1689.0	2341	o-Terph Surrogate Rec = 384.5%		(3148125)
C38	6.107	0.001	1755.0	1143	Triacon Surrogate Rec = 0.0%		(151)
C40	6.381	-0.003	1566	498			
o-terph	4.048	0.019	2645938	3148125	JET-A (C10-C18)	11099242	958
Triacon Surr	5.268	0.011	1089	151			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

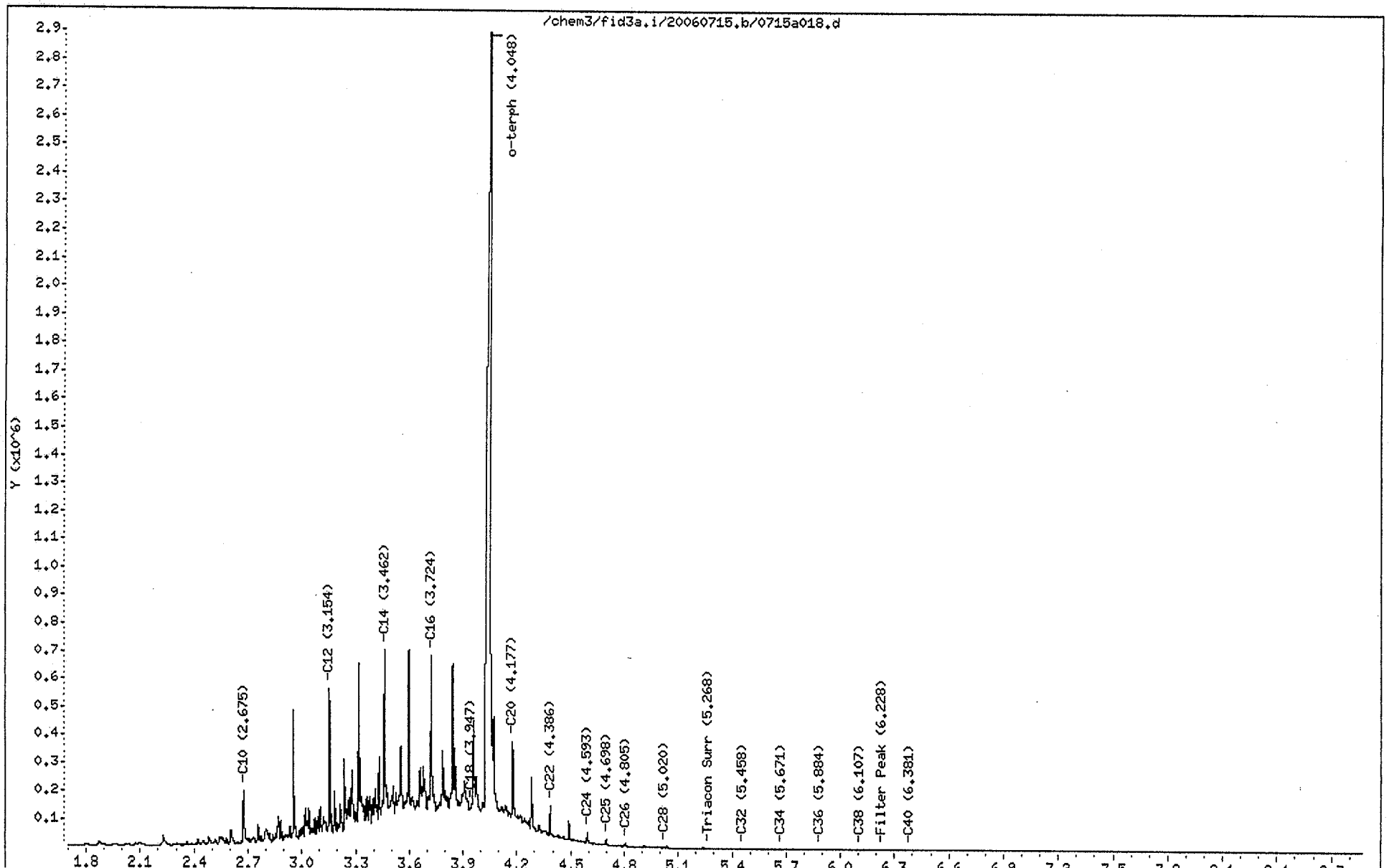
Data File: /chem3/fid3a.i/20060715.b/0715a018.d
Date : 15-JUL-2006 16:40
Client ID:
Sample Info: 1000 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1437



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a019.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: 2500 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 16:56

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.266	0.004	42051	41464	GAS (Tol-C12)	6870093	360
C8	1.458	0.007	40027	36479	DIESEL (C12-C24)	30951615	2501
C10	2.673	0.000	558406	233611	M.OIL (C24-C38)	662583	70
C12	3.157	0.003	1220877	614490	AK-102 (C10-C25)	36526040	2502
C14	3.468	0.008	1282555	1251860	AK-103 (C25-C36)	606692	96
C16	3.714	-0.006	447910	293913			
C18	3.969	0.016	722070	1016249			
C20	4.173	0.001	330504	188882			
C22	4.383	-0.003	147896	34905	STODDARD (C8-C12)	6742534	449
C24	4.597	0.001	148541	144673			
C25	4.701	-0.004	83330	70084			
C26	4.806	-0.004	43788	34936			
C28	5.022	-0.006	11115	8802			
C32	5.456	-0.010	2690	4826			
C34	5.671	-0.009	3261	4242			
Filter Peak	6.225	-0.004	1893	1124			
C36	5.886	-0.001	2545.0	2835	o-Terph Surrogate Rec = 1081.5% (8854023)		
C38	6.105	-0.002	2115.0	795	Triacon Surrogate Rec = 0.2% (1672)		
C40	6.388	0.003	1727	1428			
o-terph	4.069	0.039	3178695	8854023	JET-A (C10-C18)	27944529	2413
Triacon Surr	5.259	0.001	2558	1672			

JK 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

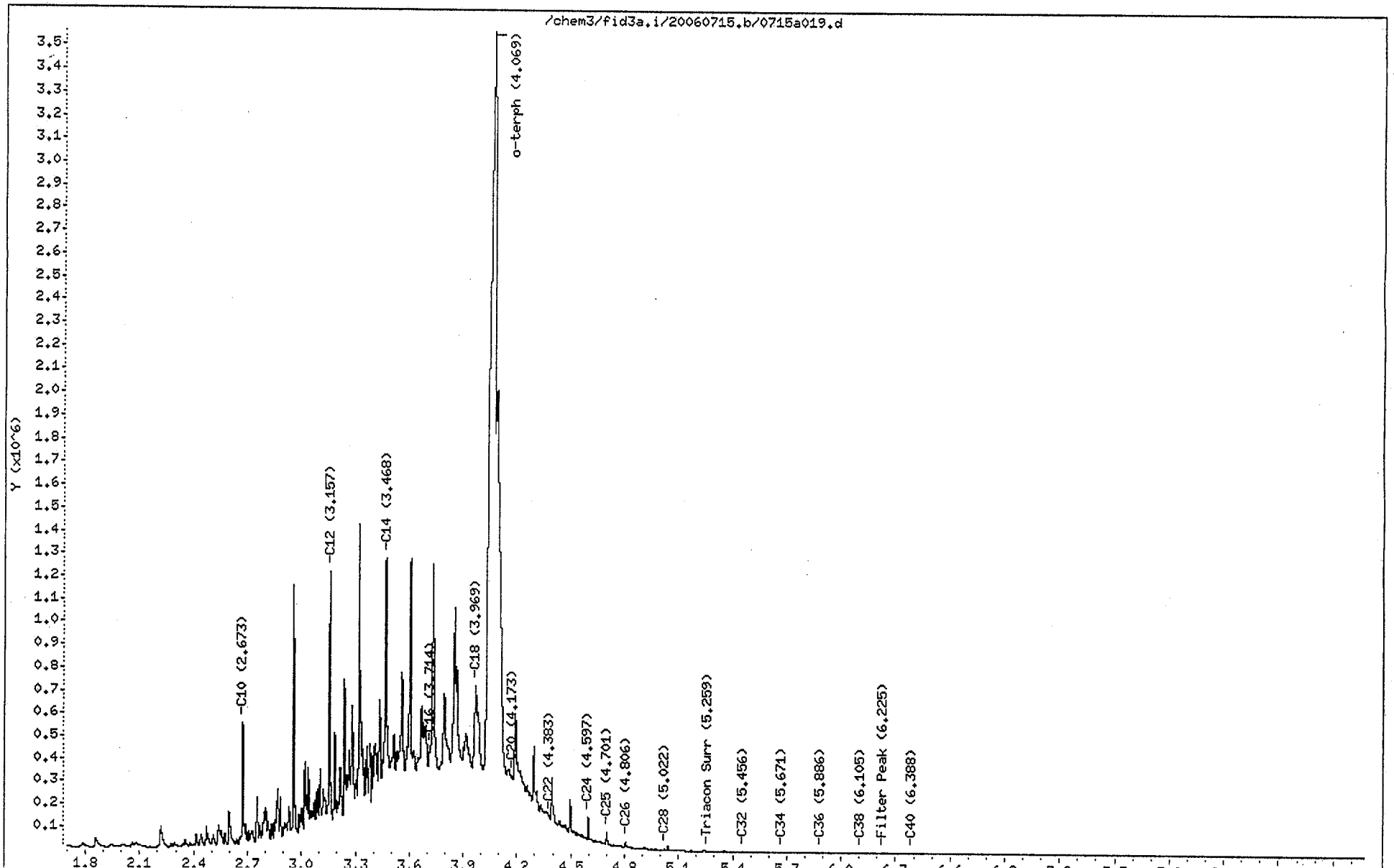
Data File: /chem3/fid3a.i/20060715.b/0715a019.d
Date : 15-JUL-2006 16:56
Client ID:
Sample Info: 2500 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1439



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a020.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: DIESEL ICV
Client ID:
Injection: 15-JUL-2006 17:12

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.272	0.010	8656	13323	GAS (Tol-C12)	654067	34
C8	1.435	-0.015	1338	1737	DIESEL (C12-C24)	3028085	245
C10	2.671	-0.002	4239	2687	M.OIL (C24-C38)	85817	9
C12	3.154	0.001	136534	55993	AK-102 (C10-C25)	3549169	243
C14	3.460	0.000	179780	78551	AK-103 (C25-C36)	69510	11
C16	3.719	-0.001	201430	92484			
C18	3.953	0.001	145535	92936			
C20	4.171	-0.001	105380	50799			
C22	4.383	-0.003	37635	19336	STODDARD (C8-C12)	626952	42
C24	4.592	-0.004	14452	10701			
C25	4.698	-0.006	7802	6469			
C26	4.805	-0.005	4000	4812			
C28	5.023	-0.005	1011	835			
C32	5.460	-0.006	428	429			
C34	5.681	0.002	680	107			
Filter Peak	6.233	0.004	1405	307			
C36	5.891	0.004	1090.0	667	o-Terph Surrogate Rec = 100.3% (821531)		
C38	6.109	0.003	1334.0	372	Triacon Surrogate Rec = 0.0% (175)		
C40	6.386	0.002	1364	944			
o-terph	4.032	0.002	1666356	821531	JET-A (C10-C18)	2725915	235
Triacon Surr	5.267	0.009	314	175			

MC 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

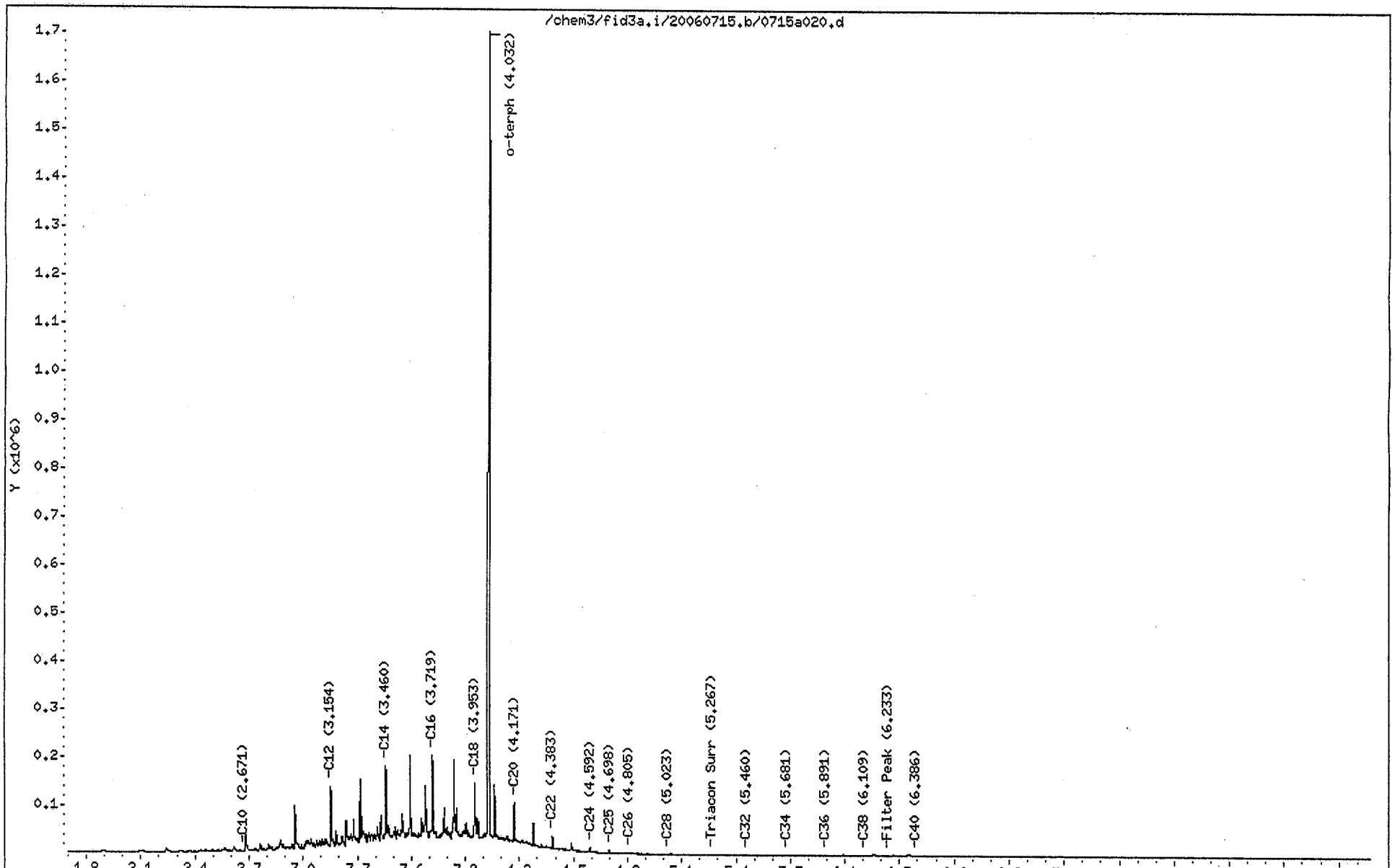
Data File: /chem3/fid3a.i/20060715.b/0715a020.d
Date : 15-JUL-2006 17:12
Client ID:
Sample Info: DIESEL ICV

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1441



6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

Instrument: FID3A.I Project: T4 EARLY ACTION

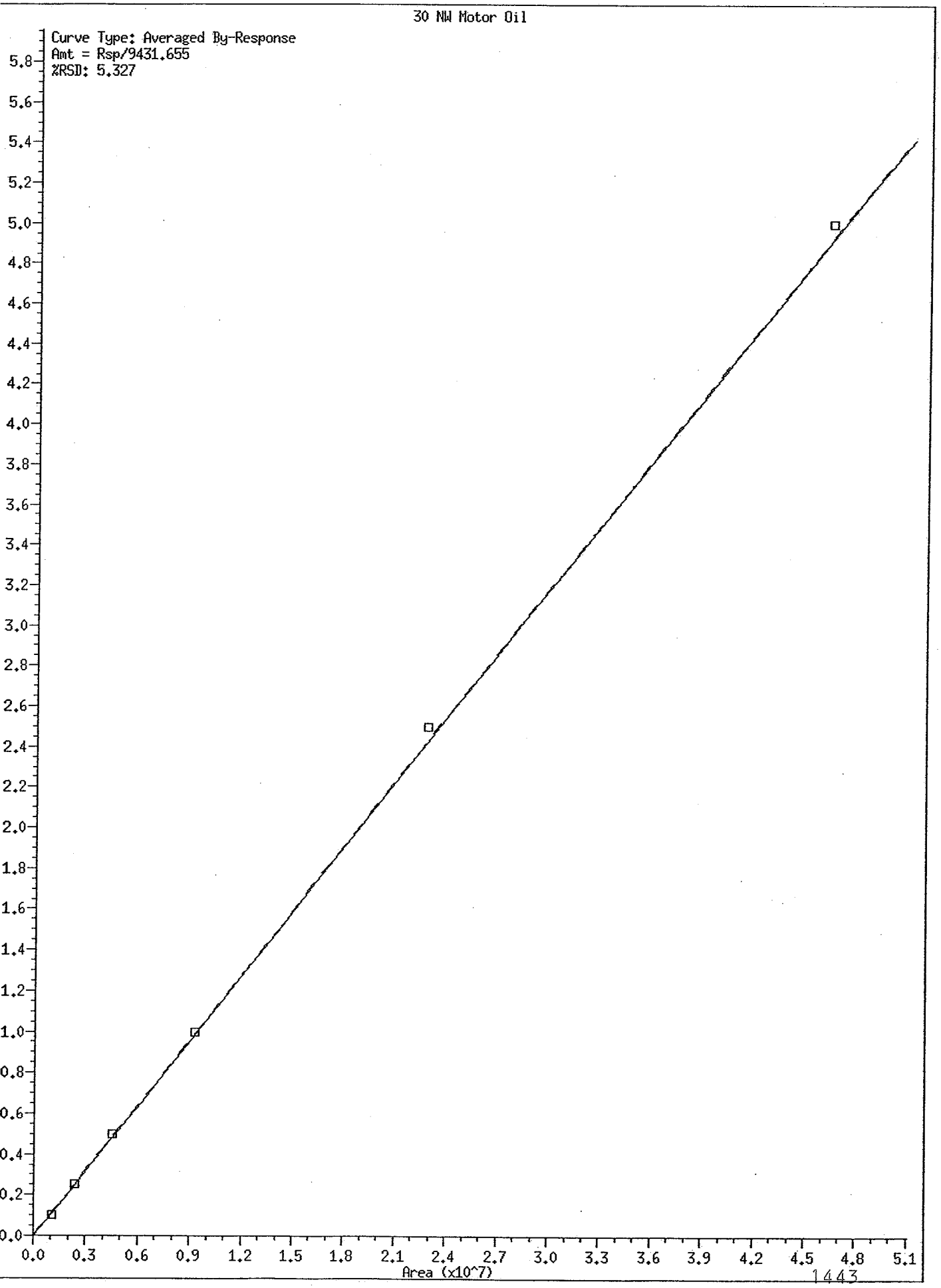
Calibration Date: 15-JUL-2006 SDG No.: JQ33

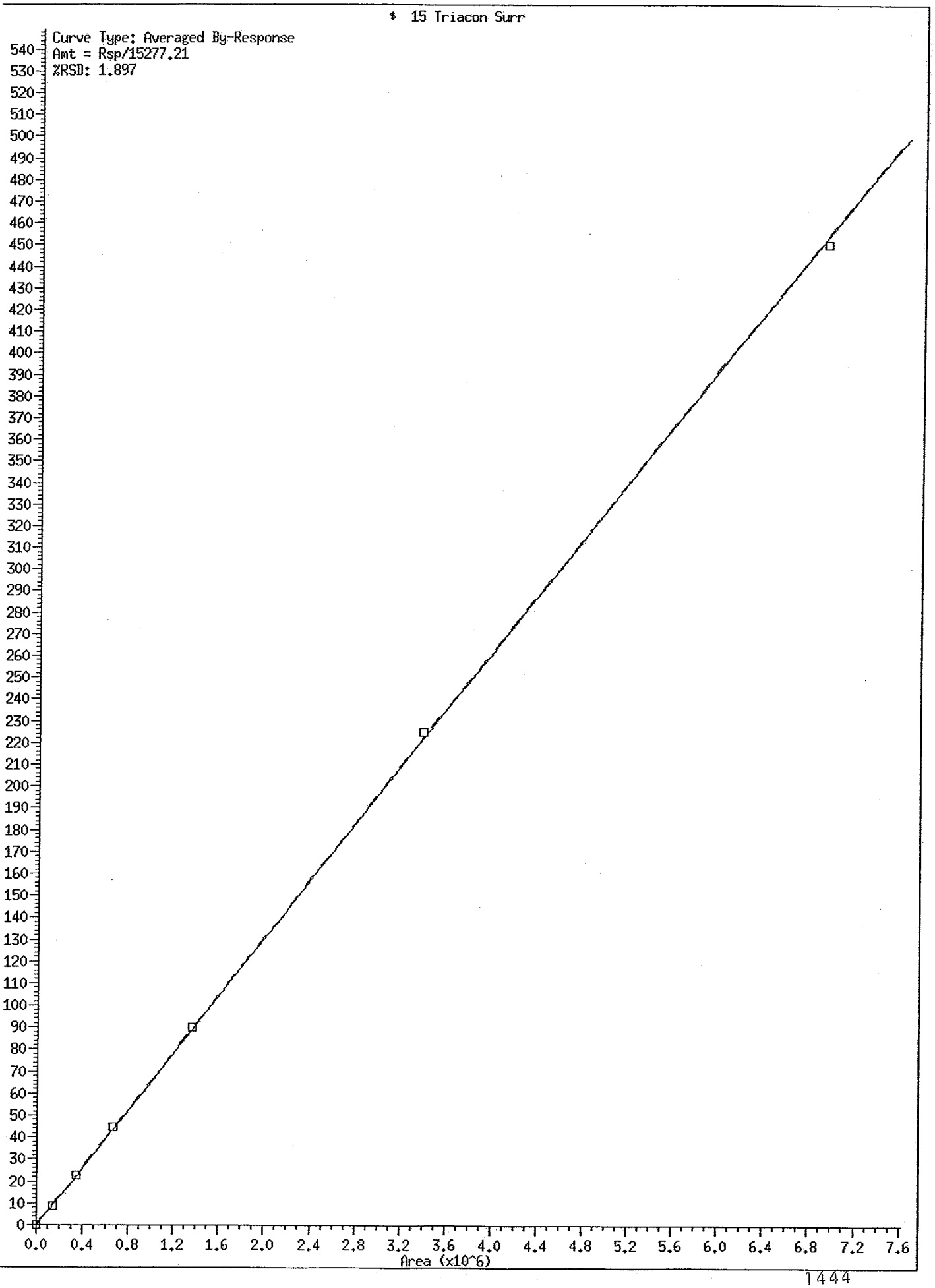
Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	10416	9440	9025	9278	9144	9288	9432	5.3
AK M.Oil	8382	7654	7369	7434	7314	7511	7611	5.2
OR M.Oil	9568	8404	8110	8408	8311	8185	8498	6.3
Triac Surr	15688	15428	14864	15176	15100	15407	15277	1.9

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36
OR M.Oil C28-C40

Calibration Files	Analysis Time
0715a029.d	15-JUL-2006 19:35
0715a030.d	15-JUL-2006 19:50
0715a031.d	15-JUL-2006 20:06
0715a032.d	15-JUL-2006 20:22
0715a033.d	15-JUL-2006 20:38
0715a034.d	15-JUL-2006 20:54


30 NW Motor Oil
Curve Type: Averaged By-Response
Amt = Rsp/9431.655
%RSD: 5.327
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1
Area (x10^7)
1443


$ 15 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/15277.21
%RSD: 1.897
Area (x10^6)

Analytical Resources Inc.
TPH Quantitation Report

)ata file: /chem3/fid3a.i/20060715.b/0715a029.d
!ethod: /chem3/fid3a.i/20060715.b/ftphfid3a.m
:nstrument: fid3a.i
)perator: JR
!eport Date: 07/18/2006
!acro: 15-MAR-2006
!alibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

ARI ID: 100 PPM MOIL
Client ID:
Injection: 15-JUL-2006 19:35

Dilution Factor: 1

FID:3A RESULTS

!ompound	RT	Shift	Height	Area	Range	Total Area	Conc
'oluene	----				GAS (Tol-C12)	15030	1
!8	1.465	0.015	642	190	DIESEL (C12-C24)	155128	13
!10	2.665	-0.008	88	58	M.OIL (C24-C38)	1041620	110
!12	3.156	0.002	156	90	AK-102 (C10-C25)	163380	11
!14	3.462	0.002	171	36	AK-103 (C25-C36)	880201	139
!16	3.680	-0.040	71254	37425			
!18	3.959	0.007	332	188			
!20	4.175	0.003	1000	669			
!22	4.386	0.000	3158	2033	STODDARD (C8-C12)	15030	1
!24	4.600	0.004	6308	3097			
!25	4.707	0.003	7946	8560			
!26	4.803	-0.007	8364	3641			
!28	5.028	0.000	10070	2571			
!32	5.469	0.003	12930	3296			
!34	5.679	0.000	14936	5003			
'ilter Peak	6.233	0.004	9236	2378			
!36	5.888	0.002	14768.0	10969	o-Terph Surrogate Rec = 0.2%		(1368)
!38	6.104	-0.002	11326.0	7574	Triacon Surrogate Rec = 20.5%		(141188)
!40	6.387	0.003	7586	2537			
-terph	4.030	0.000	1683	1368	JET-A (C10-C18)	52604	5
riacon Surr	5.246	-0.012	266719	141188			

JR 07/18/06

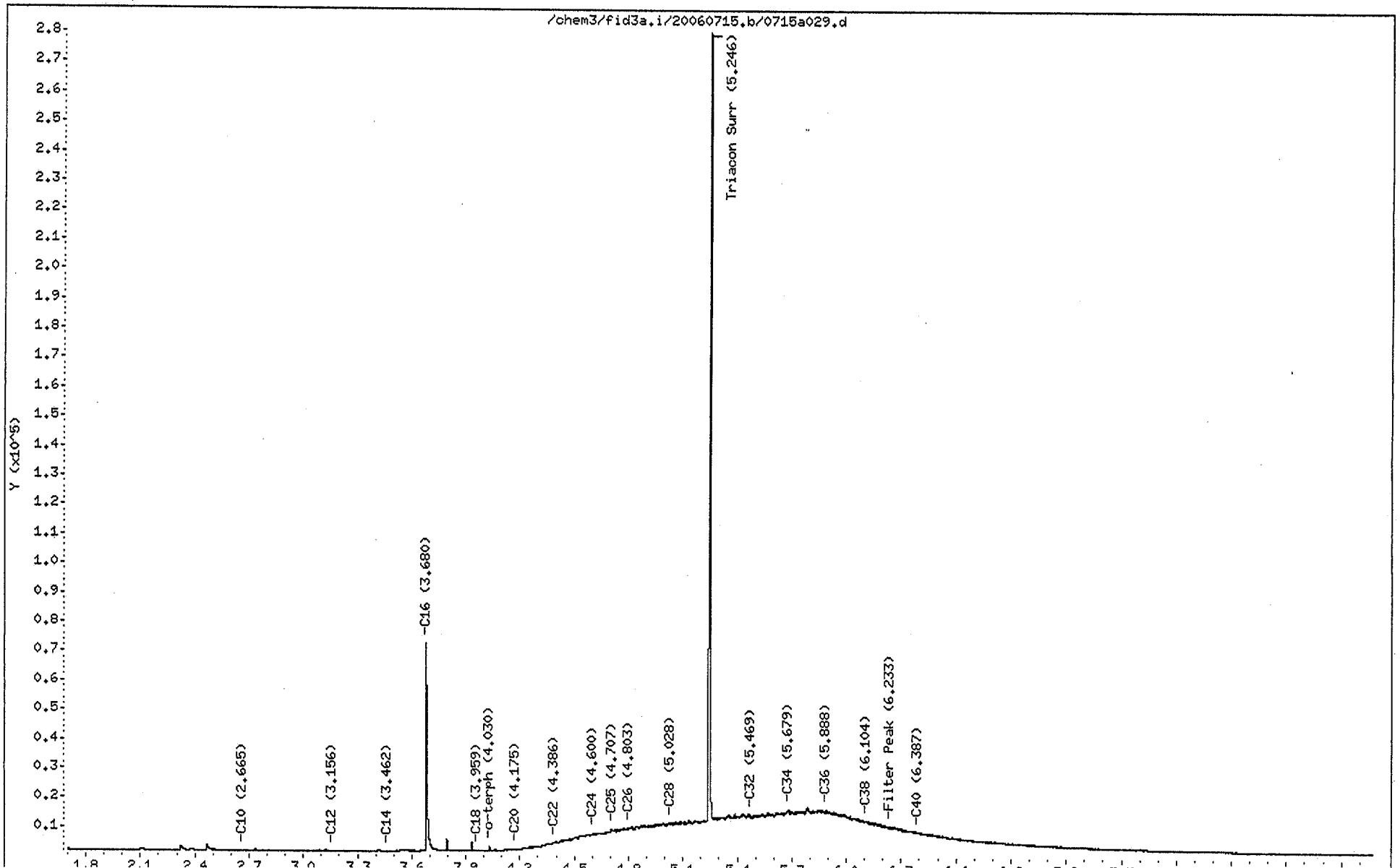
ange Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a029.d
Date : 15-JUL-2006 19:35
Client ID:
Sample Info: 100 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a030.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: 250 PPM MOIL
Client ID:
Injection: 15-JUL-2006 19:50

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17493	1
C8	1.457	0.007	678	468	DIESEL (C12-C24)	305031	25
C10	2.673	0.000	84	68	M.OIL (C24-C38)	2359962	250
C12	3.150	-0.003	159	108	AK-102 (C10-C25)	317327	22
C14	3.459	-0.001	186	65	AK-103 (C25-C36)	2014238	317
C16	3.678	-0.042	74718	37907			
C18	3.954	0.001	540	289			
C20	4.169	-0.002	2216	1779			
C22	4.383	-0.003	7223	2975	STODDARD (C8-C12)	17493	1
C24	4.597	0.000	14951	6631			
C25	4.708	0.004	18897	20506			
C26	4.816	0.006	21546	24557			
C28	5.028	0.000	23732	4247			
C32	5.471	0.005	30286	22609			
C34	5.677	-0.003	34225	16646			
Filter Peak	6.228	-0.001	19528	3481			
C36	5.883	-0.003	32631.0	22343	o-Terph Surrogate Rec = 0.3%		(2412)
C38	6.107	0.000	23147.0	8634	Triacon Surrogate Rec = 50.5%		(347132)
C40	6.378	-0.006	15291	8202			
o-terph	4.025	-0.004	3059	2412	JET-A (C10-C18)	59082	5
Triacon Surr	5.252	-0.006	566850	347132			

JK 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

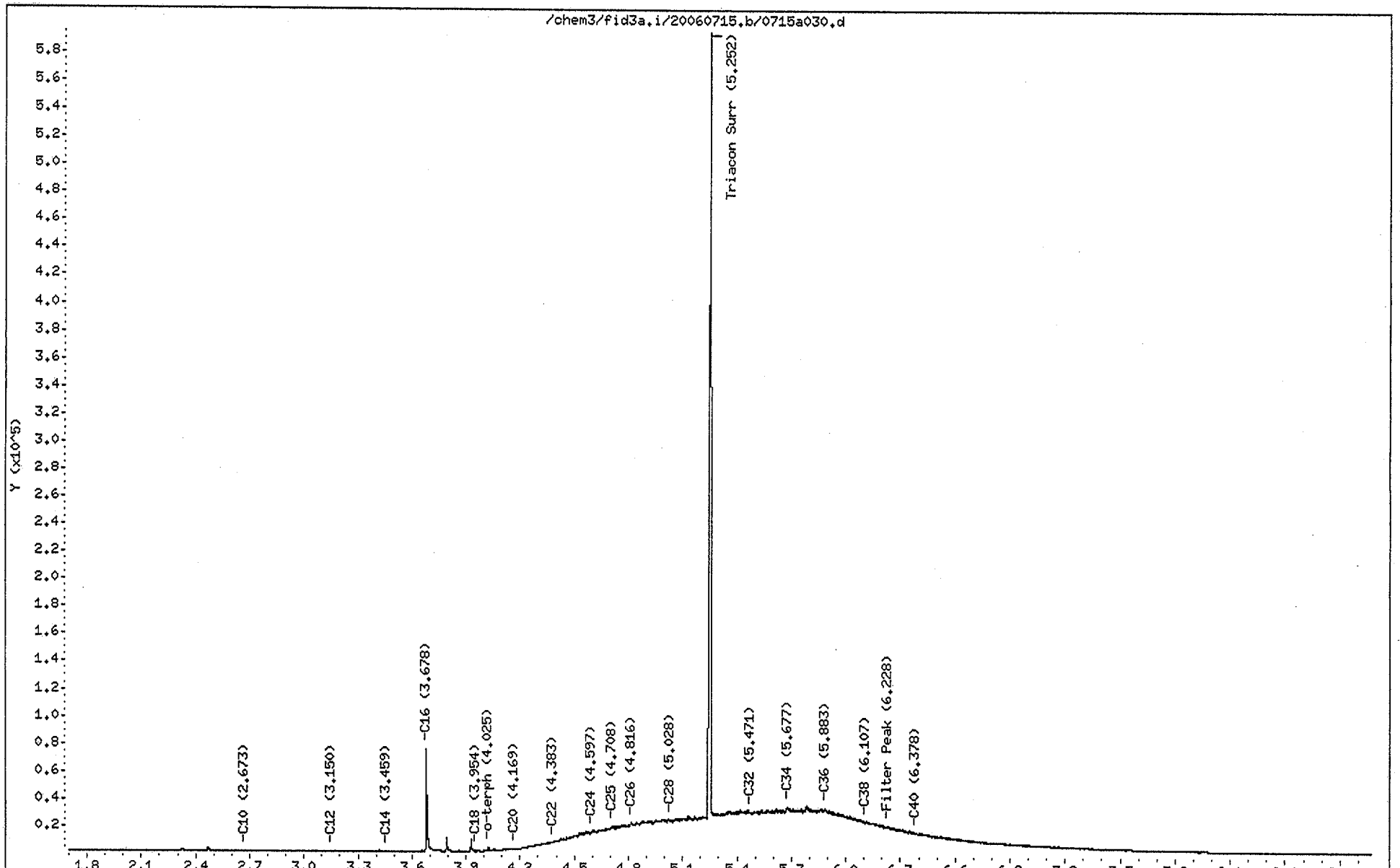
Data File: /chem3/fid3a.i/20060715.b/0715a030.d
Date : 15-JUL-2006 19:50
Client ID:
Sample Info: 250 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1448



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a031.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: 500 PPM MOIL
Client ID:
Injection: 15-JUL-2006 20:06

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17382	1
C8	1.462	0.012	740	247	DIESEL (C12-C24)	556699	45
C10	2.673	0.000	81	41	M.OIL (C24-C38)	4512422	478
C12	3.153	0.000	206	169	AK-102 (C10-C25)	561118	38
C14	3.468	0.008	252	129	AK-103 (C25-C36)	3884153	612
C16	3.679	-0.041	68856	34265			
C18	3.954	0.002	934	538			
C20	4.170	-0.001	4270	3775			
C22	4.387	0.001	13922	10069	STODDARD (C8-C12)	17382	1
C24	4.597	0.001	29387	12532			
C25	4.706	0.002	35913	31584			
C26	4.807	-0.003	39052	18331			
C28	5.028	0.001	45196	11668			
C32	5.468	0.002	62060	55075			
C34	5.680	0.000	63644	16269			
Filter Peak	6.233	0.004	36201	7100			
C36	5.886	0.000	60314.0	13131	o-Terph Surrogate Rec = 0.4%		(3483)
C38	6.112	0.005	43693.0	9546	Triacon Surrogate Rec = 97.3%		(668897)
C40	6.386	0.002	28346	13388			
o-terph	4.026	-0.004	4552	3483	JET-A (C10-C18)	67307	6
Triacon Surr	5.260	0.002	829577	668897			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

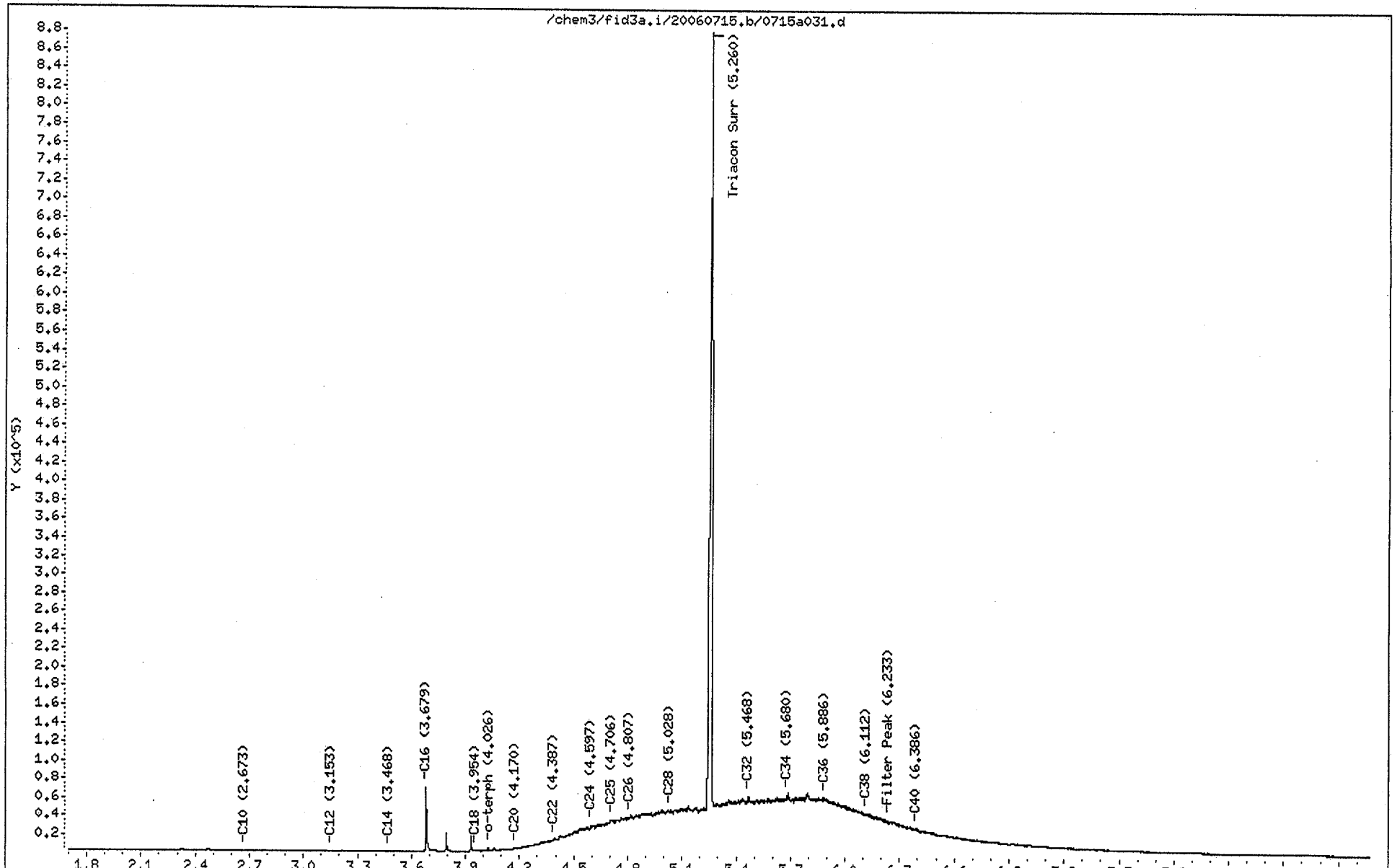
Data File: /chem3/fid3a.i/20060715.b/0715a031.d
Date : 15-JUL-2006 20:06
Client ID:
Sample Info: 500 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1450



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a032.d ARI ID: 1000 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 20:22
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	16254	1
C8	1.473	0.023	624	520	DIESEL (C12-C24)	1091082	88
C10	2.669	-0.004	95	35	M.OIL (C24-C38)	9277757	984
C12	3.150	-0.004	248	226	AK-102 (C10-C25)	1096300	75
C14	3.463	0.003	326	76	AK-103 (C25-C36)	7858512	1238
C16	3.723	0.003	1359	2156			
C18	3.951	-0.001	1912	1133			
C20	4.168	-0.004	8729	7540			
C22	4.383	-0.003	28031	9643	STODDARD (C8-C12)	16254	1
C24	4.594	-0.003	58113	50674			
C25	4.703	-0.001	69936	28481			
C26	4.806	-0.004	76725	56531			
C28	5.025	-0.003	93217	43489			
C32	5.466	0.000	117573	25540			
C34	5.680	0.000	126676	22518			
Filter Peak	6.231	0.002	83296	64731			
C36	5.890	0.003	135144.0	93875	o-Terph Surrogate Rec = 0.7%		(5776)
C38	6.108	0.001	98823.0	32988	Triacon Surrogate Rec = 198.7%		(1365847)
C40	6.386	0.002	63540	40727			
o-terph	4.023	-0.006	7371	5776	JET-A (C10-C18)	95835	8
Triacon Surr	5.270	0.013	1166425	1365847			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

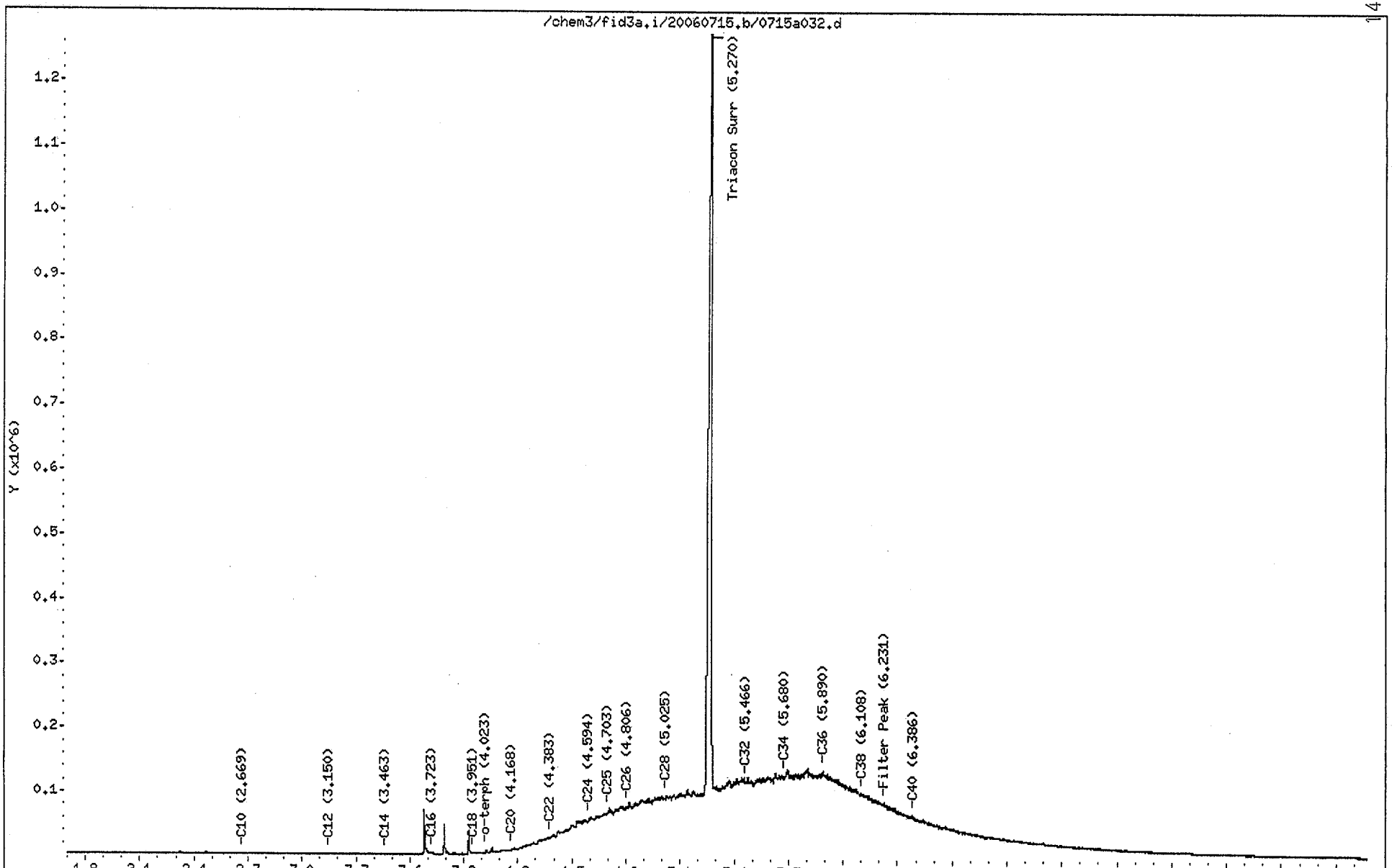
Data File: /chem3/fid3a.i/20060715.b/0715a032.d
Date : 15-JUL-2006 20:22
Client ID:
Sample Info: 1000 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1452



Analytical Resources Inc.
TPH Quantitation Report

ata file: /chem3/fid3a.i/20060715.b/0715a033.d ARI ID: 2500 PPM MOIL
ethod: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
nstrument: fid3a.i Injection: 15-JUL-2006 20:38
perator: JR
eport Date: 07/18/2006 Dilution Factor: 1
acro: 15-MAR-2006
alibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

ompound	RT	Shift	Height	Area	Range	Total Area	Conc
oluene	----				GAS (Tol-C12)	22013	1
8	1.475	0.025	789	1558	DIESEL (C12-C24)	2611095	211
10	2.672	-0.001	118	13	M.OIL (C24-C38)	22859118	2424
12	3.152	-0.001	481	158	AK-102 (C10-C25)	2690414	184
14	3.459	-0.001	674	277	AK-103 (C25-C36)	19322897	3043
16	3.720	0.000	4497	4622			
18	3.950	-0.003	5174	2742			
20	4.169	-0.003	21671	15825			
22	4.387	0.001	69772	32388	STODDARD (C8-C12)	22013	1
24	4.600	0.004	144685	144328			
25	4.705	0.001	160759	25533			
26	4.810	0.000	189555	52382			
28	5.029	0.001	218247	43319			
32	5.467	0.001	299864	87144			
34	5.678	-0.001	312482	155734			
ilter Peak	6.227	-0.002	199315	78594			
36	5.885	-0.001	321951.0	95436	o-Terph Surrogate Rec = 2.0% (16436)		
38	6.113	0.007	236612.0	32921	Triacon Surrogate Rec = 494.2% (3397477)		
40	6.380	-0.004	145279	79839			
-terph	4.022	-0.008	23847	16436	JET-A (C10-C18)	183246	16
riacon Surr	5.299	0.042	1532987	3397477			

JR 07/18/06

ange Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

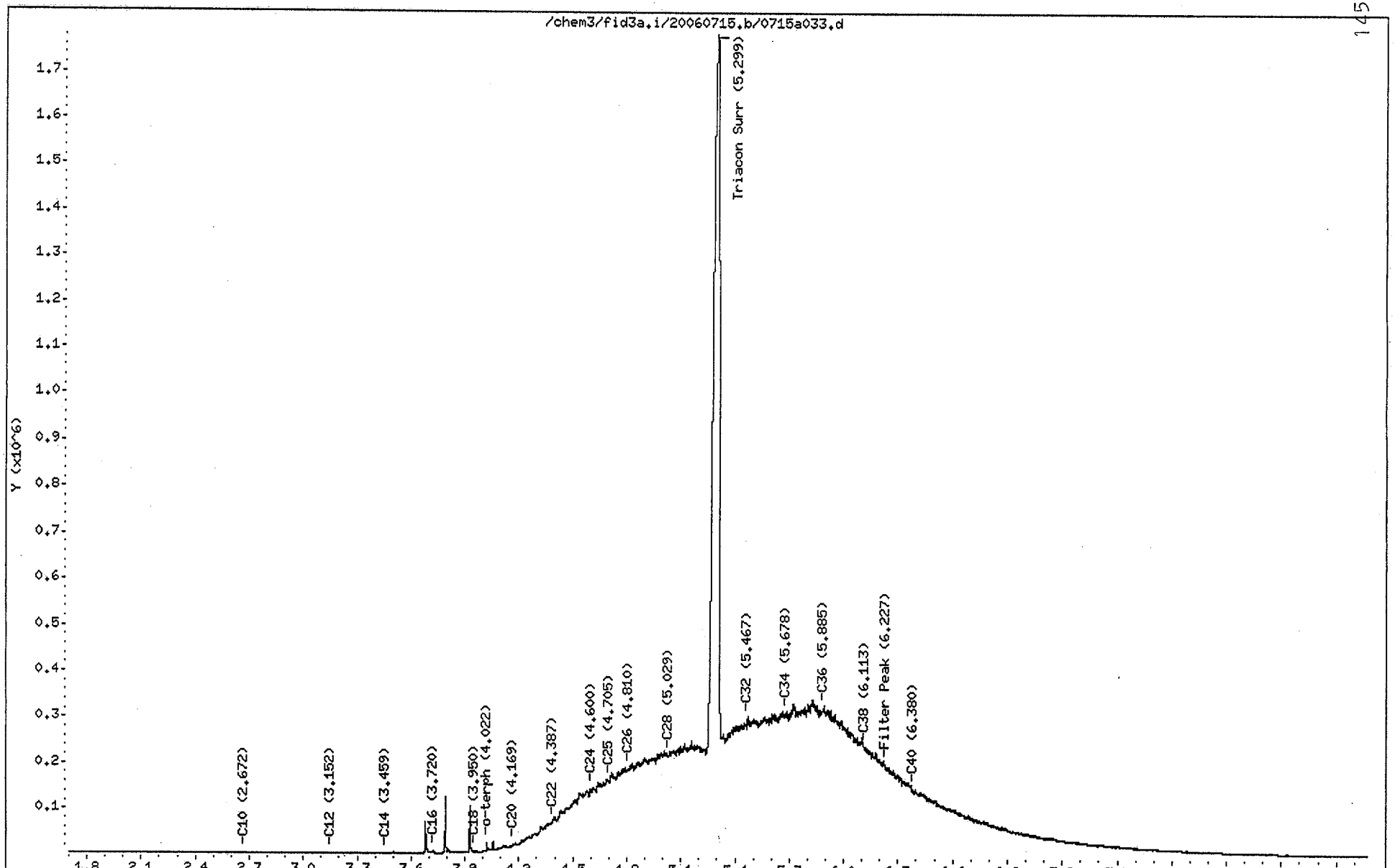
Data File: /chem3/fid3a.i/20060715.b/0715a033.d
Date : 15-JUL-2006 20:38
Client ID:
Sample Info: 2500 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1454



Analytical Resources Inc.
TPH Quantitation Report

ata file: /chem3/fid3a.i/20060715.b/0715a034.d ARI ID: 5000 PPM MOIL
ethod: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
nstrument: fid3a.i Injection: 15-JUL-2006 20:54
perator: JR
eport Date: 07/18/2006 Dilution Factor: 1
acro: 15-MAR-2006
alibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

ompound	RT	Shift	Height	Area	Range	Total Area	Conc
oluene	1.290	0.028	56895	42445	GAS (Tol-C12)	194544	10
8	1.463	0.013	762	196	DIESEL (C12-C24)	5033541	407
10	2.680	0.007	179	90	M.OIL (C24-C38)	46438173	4924
12	3.156	0.003	825	608	AK-102 (C10-C25)	5232264	358
14	3.465	0.005	2680	1817	AK-103 (C25-C36)	39599815	6237
16	3.721	0.001	3850	4215			
18	3.950	-0.002	10318	5218			
20	4.171	0.000	43516	33278			
22	4.389	0.003	142741	63184	STODDARD (C8-C12)	25036	2
24	4.601	0.004	281552	88396			
25	4.702	-0.002	335110	297445			
26	4.807	-0.003	380731	119826			
28	5.031	0.003	474501	239562			
32	5.464	-0.002	575313	91386			
34	5.678	-0.001	643293	153511			
ilter Peak	6.232	0.003	361231	127826			
36	5.886	0.000	653679.0	155139	o-Terph Surrogate Rec = 0.5% (4288)		
38	6.103	-0.004	475930.0	288646	Triacon Surrogate Rec = 1008.5% (6933264)		
40	6.385	0.001	254588	233268			
-terph	4.036	0.007	15561	4288	JET-A (C10-C18)	316431	27
riacon Surr	5.339	0.082	2170701	6933264			

JR 07/18/06

ange Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

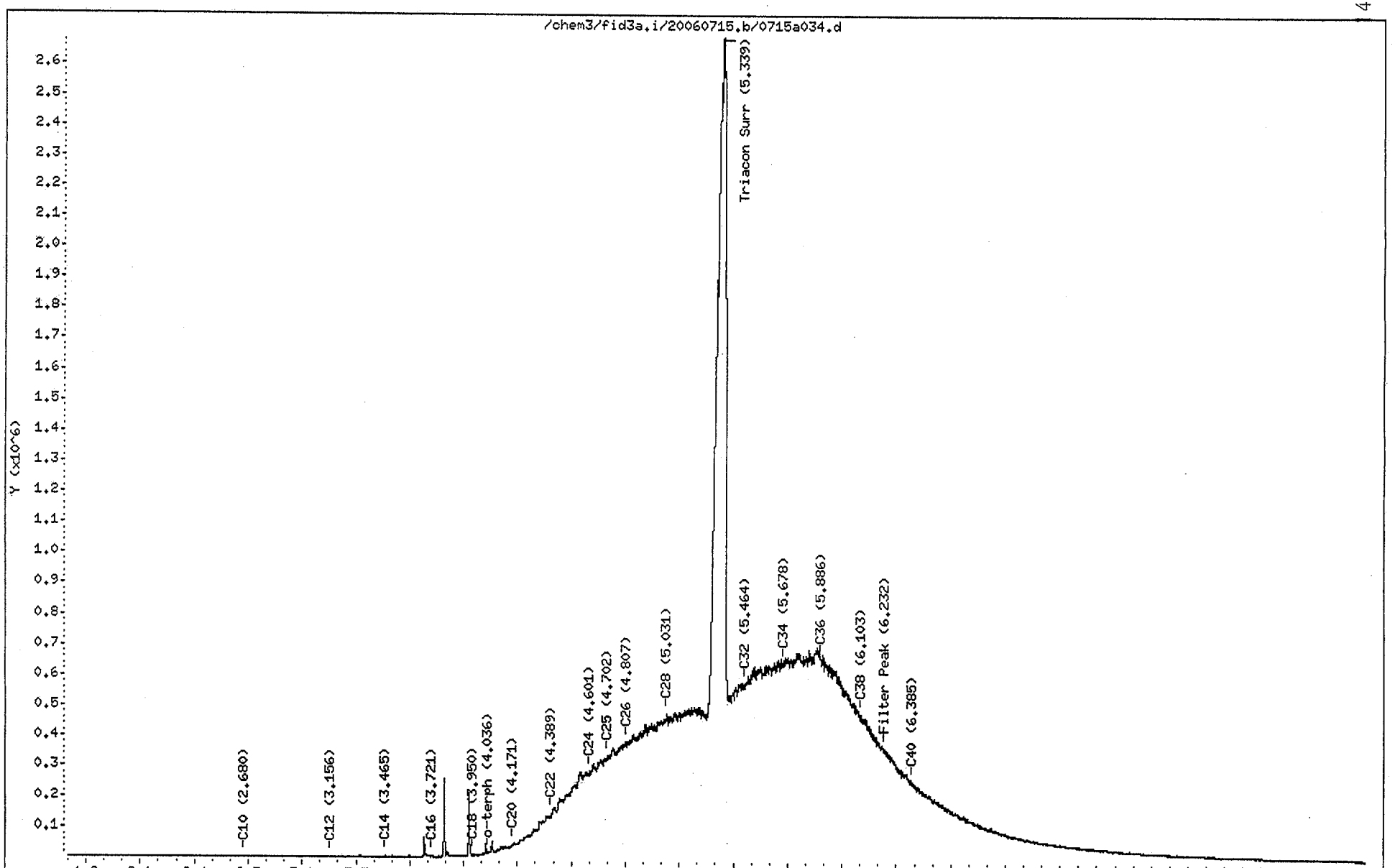
Data File: /chem3/fid3a.i/20060715.b/0715a034.d
Date : 15-JUL-2006 20:54
Client ID:
Sample Info: 5000 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

456



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a035.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: MOIL ICV
Client ID:
Injection: 15-JUL-2006 21:09

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15110	1
C8	1.449	-0.001	709	762	DIESEL (C12-C24)	530817	43
C10	2.678	0.005	77	20	M.OIL (C24-C38)	4525768	480
C12	3.155	0.001	236	201	AK-102 (C10-C25)	552589	38
C14	3.466	0.006	296	113	AK-103 (C25-C36)	3840248	605
C16	3.680	-0.040	67258	32786			
C18	3.954	0.001	1042	573			
C20	4.170	-0.002	4168	2797			
C22	4.386	0.000	13923	10194	STODDARD (C8-C12)	15110	1
C24	4.595	-0.001	27723	7682			
C25	4.703	-0.001	32630	12008			
C26	4.807	-0.003	35449	7022			
C28	5.026	-0.002	44380	24612			
C32	5.465	-0.001	58827	42732			
C34	5.680	0.001	66535	21962			
Filter Peak	6.224	-0.005	41353	27310			
C36	5.889	0.003	65543.0	35755	o-Terph Surrogate Rec = 0.5%		(3882)
C38	6.104	-0.002	48408.0	31481	Triacon Surrogate Rec = 91.8%		(631136)
C40	6.382	-0.002	32014	16451			
o-terph	4.025	-0.004	5864	3882	JET-A (C10-C18)	68242	6
Triacon Surr	5.257	0.000	810352	631136			

JC 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

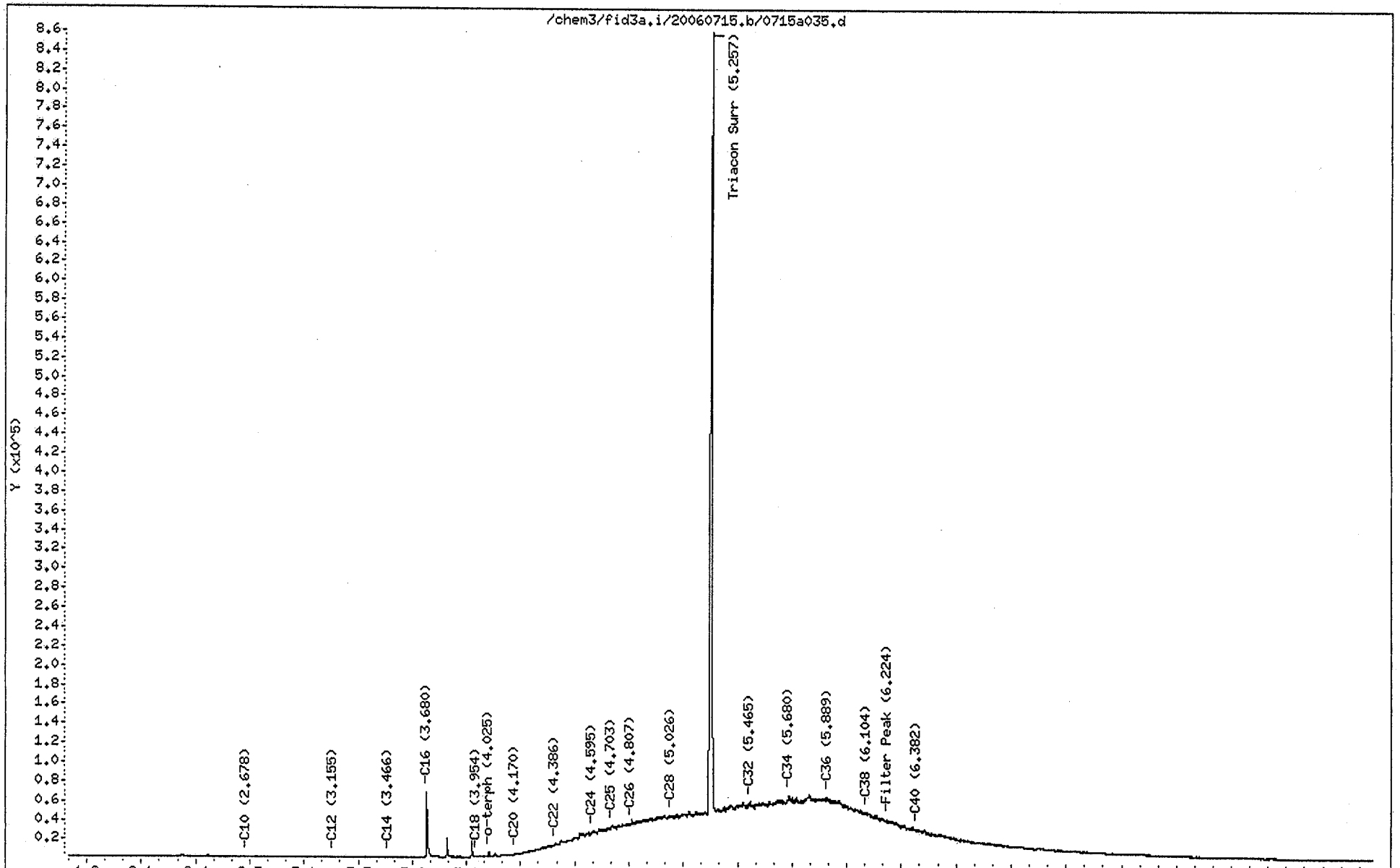
Data File: /chem3/fid3a.i/20060715.b/0715a035.d
Date : 15-JUL-2006 21:09
Client ID:
Sample Info: MOIL ICV

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1458



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a002.d ARI ID: RT
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 07:22
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.253	0.000	438634	326180	GAS (Tol-C12)	984210	75
C8	1.438	0.000	220009	195048	DIESEL (C12-C24)	1478342	119
C10	2.658	0.000	478464	207114	M.OIL (C24-C38)	1664912	177
C12	3.137	0.000	616254	220789	AK-102 (C10-C25)	1920370	132
C14	3.442	0.000	633623	226245	AK-103 (C25-C36)	1510723	238
C16	3.699	0.000	735199	235512			
C18	3.930	0.000	614127	239841			
C20	4.147	0.000	633069	243042			
C22	4.358	0.000	595628	243837	STODDARD (C8-C12)	652957	43
C24	4.565	0.000	541746	248796			
C25	4.671	0.000	632344	329429			
C26	4.775	0.000	496016	250306			
C28	4.988	0.000	438599	246454			
C32	5.420	0.000	427678	234433			
C34	5.628	0.000	383008	213576			
Filter Peak	6.219	0.000	1293	463			
C36	5.831	0.000	327857.0	186115	o-Terph Surrogate Rec = 93.0%		(761189)
C38	6.037	0.000	206126.0	137154	Triacon Surrogate Rec = 108.6%		(746819)
C40	6.288	0.000	135343	111476			
o-terph	4.006	0.000	1549128	761189	JET-A (C10-C18)	1167489	101
Triacon Surr	5.212	0.000	927312	746819			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

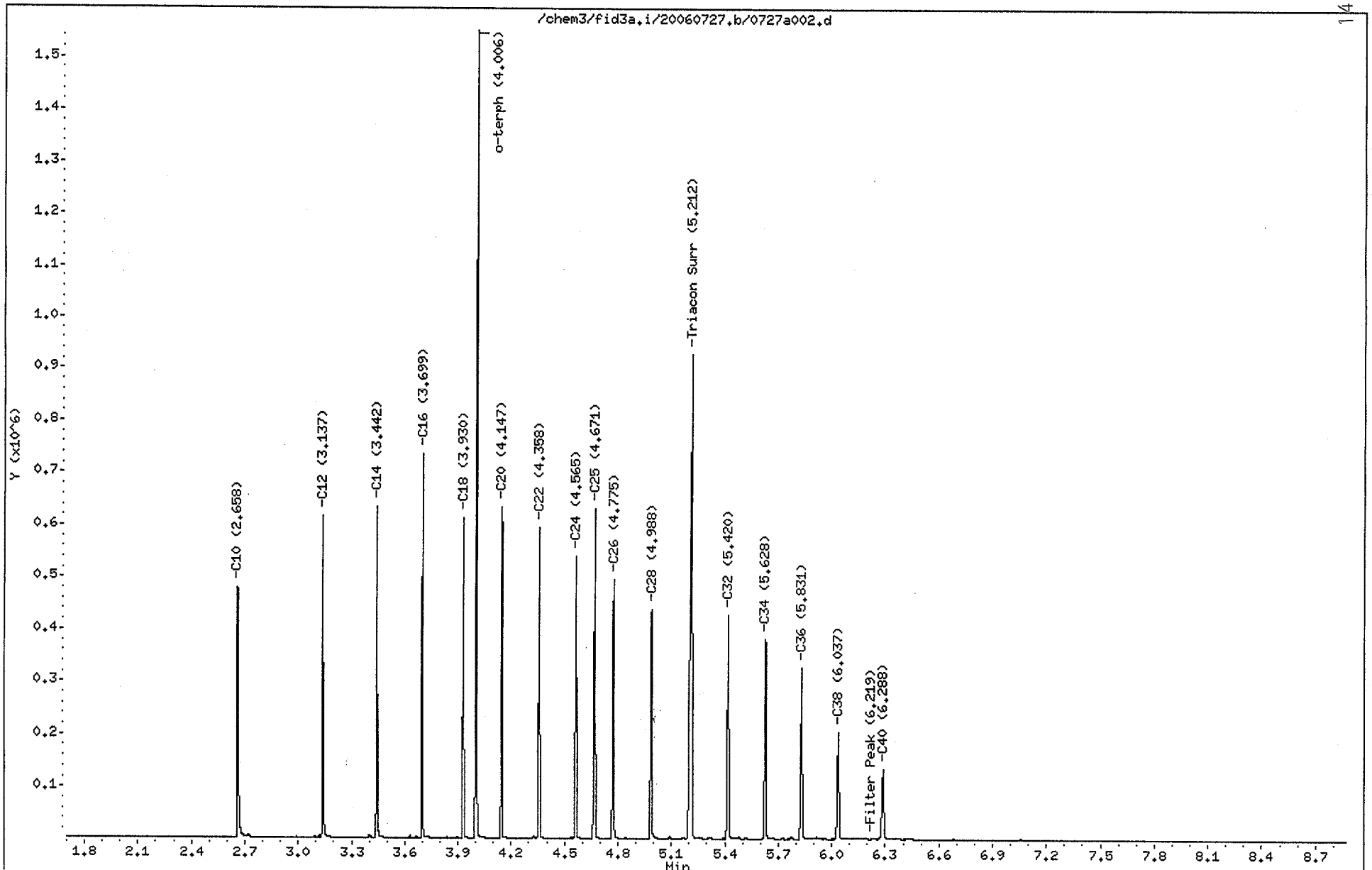
Data File: /chem3/fid3a.i/20060727.b/0727a002.d
Date : 27-JUL-2006 07:22
Client ID:
Sample Info: RT

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1460



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a003.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: IB
Client ID:
Injection: 27-JUL-2006 07:37
Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	14185	1
C8	1.452	0.014	736	232	DIESEL (C12-C24)	44161	4
C10	2.659	0.001	91	47	M.OIL (C24-C38)	88950	9
C12	3.121	-0.016	2159	1321	AK-102 (C10-C25)	49871	3
C14	3.449	0.007	254	146	AK-103 (C25-C36)	74003	12
C16	3.694	-0.005	536	383			
C18	3.931	0.001	1110	865			
C20	4.149	0.003	1368	1511			
C22	4.359	0.002	1603	843	STODDARD (C8-C12)	14185	1
C24	4.563	-0.002	1793	1579			
C25	4.666	-0.005	2146	1422			
C26	4.769	-0.006	1677	1544			
C28	4.981	-0.007	2401	1797			
C32	5.412	-0.008	4342	3511			
C34	5.627	-0.001	3325	4154			
Filter Peak	6.208	-0.011	1163	369			
C36	5.824	-0.007	1754.0	2344	o-Terph Surrogate Rec = 93.9%		(768656)
C38	6.030	-0.007	1624.0	2583	Triacon Surrogate Rec = 108.7%		(746990)
C40	6.281	-0.007	1466	3000			
o-terph	4.008	0.002	1496219	768656	JET-A (C10-C18)	23843	2
Triacon Surr	5.211	-0.001	918723	746990			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a003.d

Date : 27-JUL-2006 07:37

Client ID:

Sample Info: IB

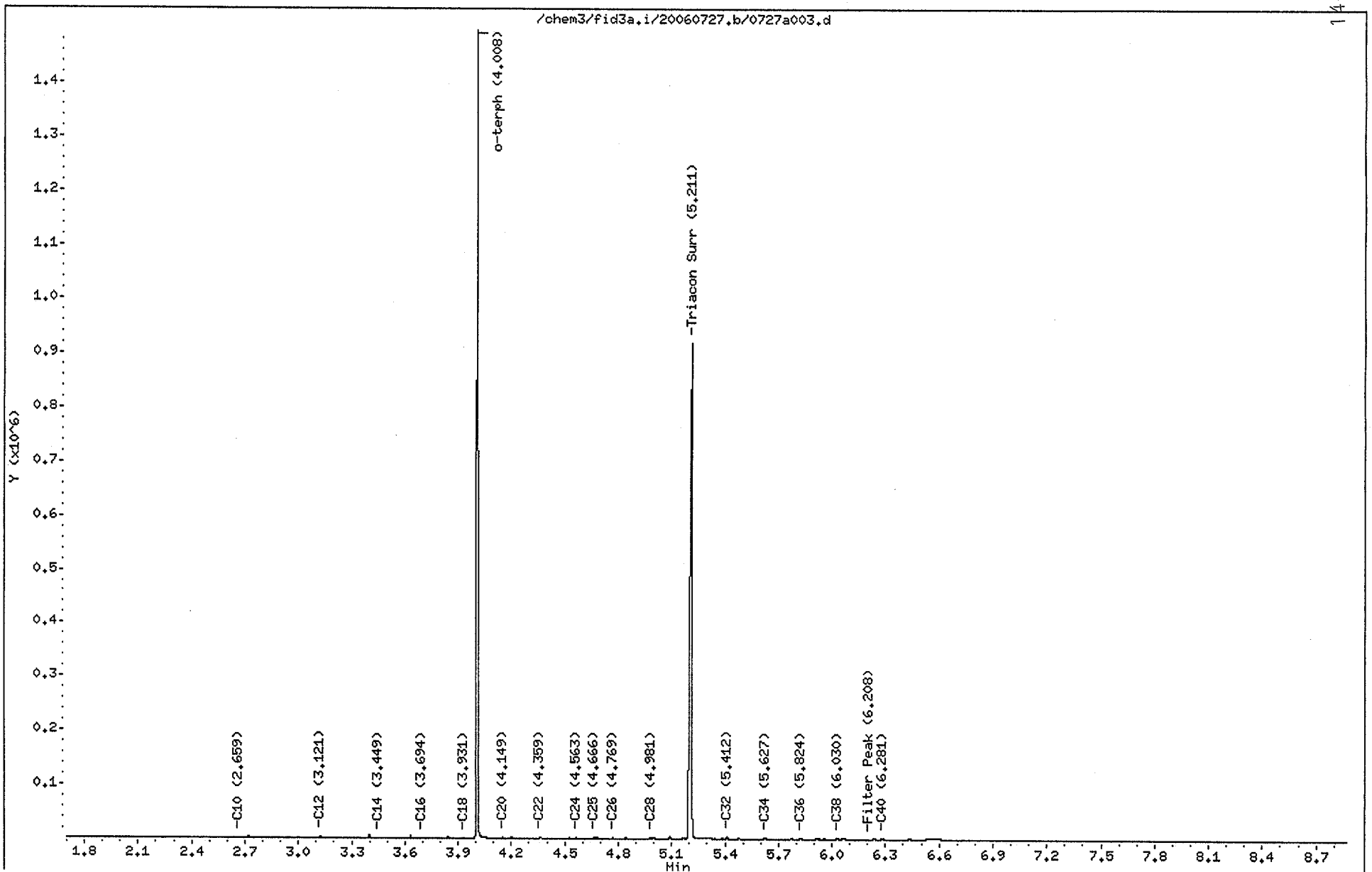
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1462



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 07:53
Lab ID: DIESEL#1

Instrument: FID3A.I
Lab File Name: 0727a004.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	2968363	239.9	250	-4.1
AK102 (C10-C25)	3487107	240.3	250	-3.9
Terphenyl	817675	44.9	45	-0.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a004.d ARI ID: DIESEL#1
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 07:53
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.268	0.015	10468	14108	GAS (Tol-C12)	663890	50
C8	1.428	-0.010	1787	2162	DIESEL (C12-C24)	2968363	240
C10	2.653	-0.005	4025	2597	M.OIL (C24-C38)	96504	10
C12	3.139	0.002	125236	54327	AK-102 (C10-C25)	3487107	240
C14	3.443	0.001	173196	79207	AK-103 (C25-C36)	83857	13
C16	3.700	0.001	200897	88702			
C18	3.932	0.002	143358	90192			
C20	4.150	0.003	105344	48258			
C22	4.360	0.003	38425	20589	STODDARD (C8-C12)	634554	42
C24	4.566	0.001	15030	11566			
C25	4.668	-0.002	8291	6859			
C26	4.773	-0.002	4546	3884			
C28	4.985	-0.003	1326	1051			
C32	5.414	-0.006	517	422			
C34	5.630	0.002	2717	2344			
Filter Peak	6.223	0.004	946	149			
C36	5.832	0.001	842.0	264	o-Terph Surrogate Rec = 99.9%		(817675)
C38	6.038	0.001	823.0	162	Triacon Surrogate Rec = 0.9%		(5941)
C40	6.286	-0.002	957	637			
o-terph	4.011	0.005	1516818	817675	JET-A (C10-C18)	2662580	230
Triacon Surr	5.199	-0.013	9562	5941			

JK 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

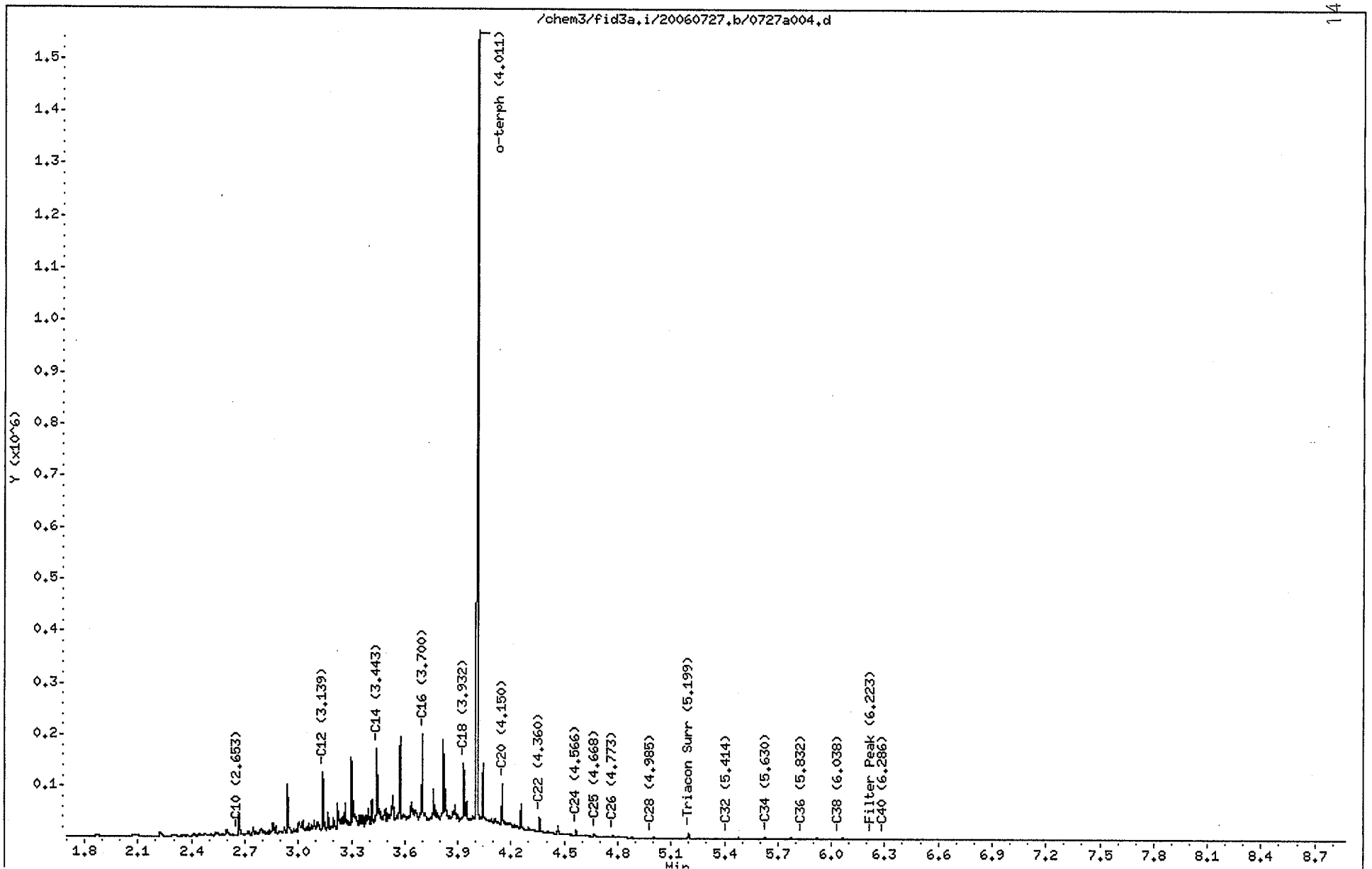
Data File: /chem3/fid3a.i/20060727.b/0727a004.d
Date : 27-JUL-2006 07:53
Client ID:
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1465



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006 SDG No.: JQ33

Analysis Time: 08:09 Lab ID: MOIL#1

Instrument: FID3A.I Lab File Name: 0727a005.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4092012	433.9	500	-13.2
AK103 (C25-C36)	3592055	565.8	500	13.2
n-Triacontane	642879	42.1	45	-6.5

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a005.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: MOIL#1
Client ID:
Injection: 27-JUL-2006 08:09
Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	19425	1
C8	1.442	0.004	836	248	DIESEL (C12-C24)	528839	43
C10	2.663	0.005	103	45	M.OIL (C24-C38)	4092012	434
C12	3.122	-0.015	2390	1431	AK-102 (C10-C25)	544023	37
C14	3.437	-0.005	409	262	AK-103 (C25-C36)	3592055	566
C16	3.692	-0.007	662	502			
C18	3.930	-0.001	1656	989			
C20	4.144	-0.003	4969	3699			
C22	4.360	0.002	14285	3081	STODDARD (C8-C12)	19425	1
C24	4.565	0.000	28535	16524			
C25	4.670	-0.001	34749	12764			
C26	4.778	0.003	40191	26849			
C28	4.990	0.002	44935	14978			
C32	5.419	-0.001	57531	32661			
C34	5.628	0.000	60371	26381			
Filter Peak	6.226	0.006	25605	9140			
C36	5.831	0.000	52732.0	11475	o-Terph Surrogate Rec = 0.8%		(6529)
C38	6.043	0.006	38467.0	20878	Triacon Surrogate Rec = 93.5%		(642879)
C40	6.285	-0.003	23696	15963			
o-terph	4.001	-0.005	10329	6529	JET-A (C10-C18)	49361	4
Triacon Surr	5.214	0.001	755044	642879			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

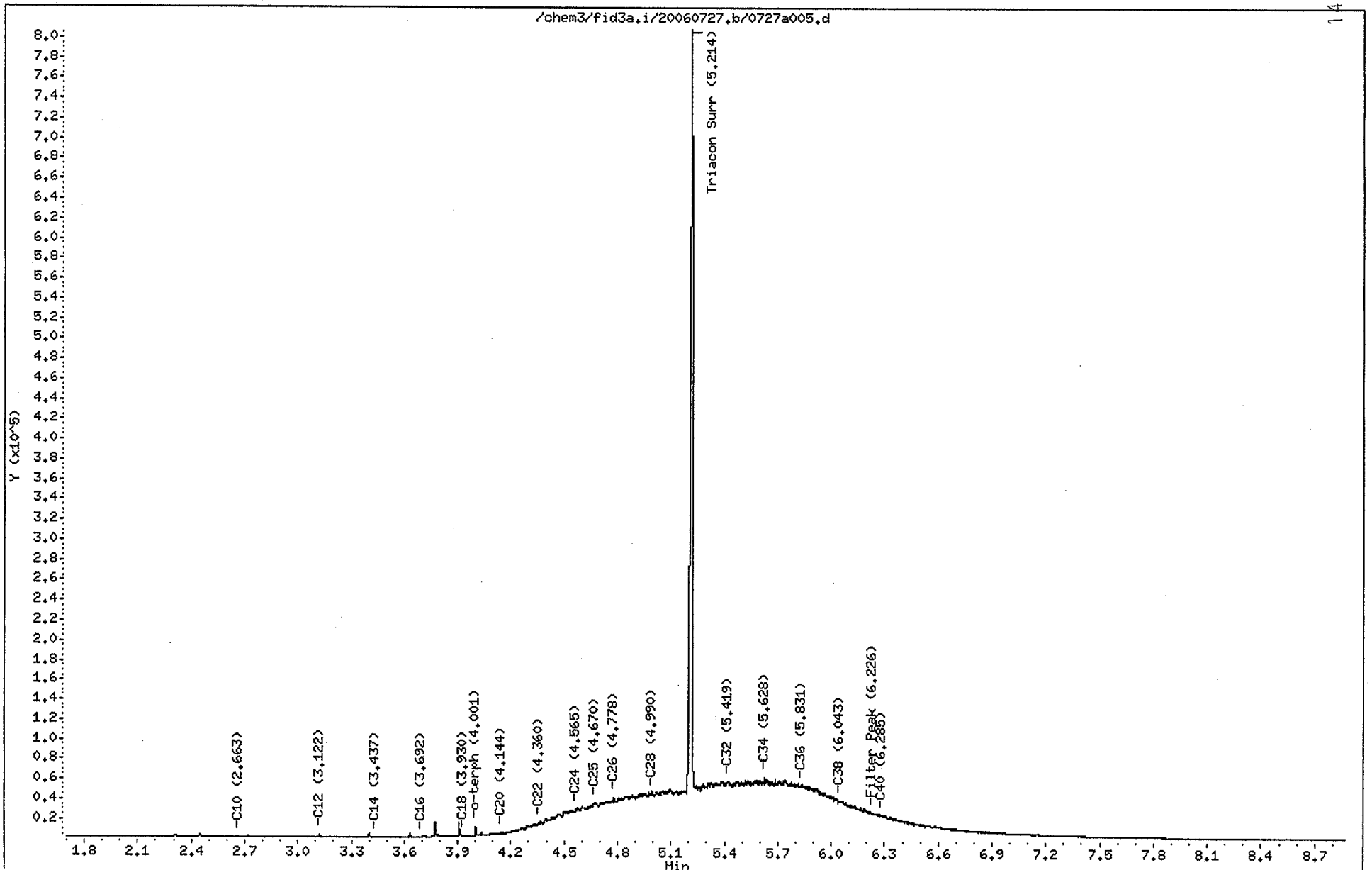
Data File: /chem3/fid3a.i/20060727.b/0727a005.d
Date : 27-JUL-2006 08:09
Client ID:
Sample Info: MOIL#1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1468



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 11:00
Lab ID: DIESEL#2

Instrument: FID3A.I
Lab File Name: 0727a016.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	2964052	239.5	250	-4.2
AK102 (C10-C25)	3487343	240.3	250	-3.9
Terphenyl	817354	44.9	45	-0.2

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a016.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#2
Client ID:
Injection: 27-JUL-2006 11:00
Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.269	0.016	12735	18431	GAS (Tol-C12)	685419	52
C8	1.430	-0.008	2039	2583	DIESEL (C12-C24)	2964052	240
C10	2.652	-0.006	4134	2699	M.OIL (C24-C38)	140189	15
C12	3.139	0.002	130114	54942	AK-102 (C10-C25)	3487343	240
C14	3.443	0.001	172320	84765	AK-103 (C25-C36)	116900	18
C16	3.701	0.002	198750	88817			
C18	3.927	-0.004	37254	18901			
C20	4.144	-0.003	28834	13760			
C22	4.355	-0.003	14143	7765	STODDARD (C8-C12)	647926	43
C24	4.555	-0.010	7543	7131			
C25	4.668	-0.003	4193	2499			
C26	4.778	0.002	2574	1068			
C28	4.995	0.007	1698	1468			
C32	5.419	-0.001	1181	1405			
C34	5.633	0.005	1821	2849			
Filter Peak	6.215	-0.004	1438	856			
C36	5.827	-0.004	1455.0	457	o-Terph Surrogate Rec = 99.8%		(817354)
C38	6.039	0.002	1787.0	1850	Triacon Surrogate Rec = 1.0%		(6701)
C40	6.286	-0.002	1384	931			
o-terph	4.016	0.010	1497743	817354	JET-A (C10-C18)	2660093	230
Triacon Surr	5.205	-0.007	10709	6701			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a016.d

Date : 27-JUL-2006 11:00

Client ID:

Sample Info: DIESEL#2

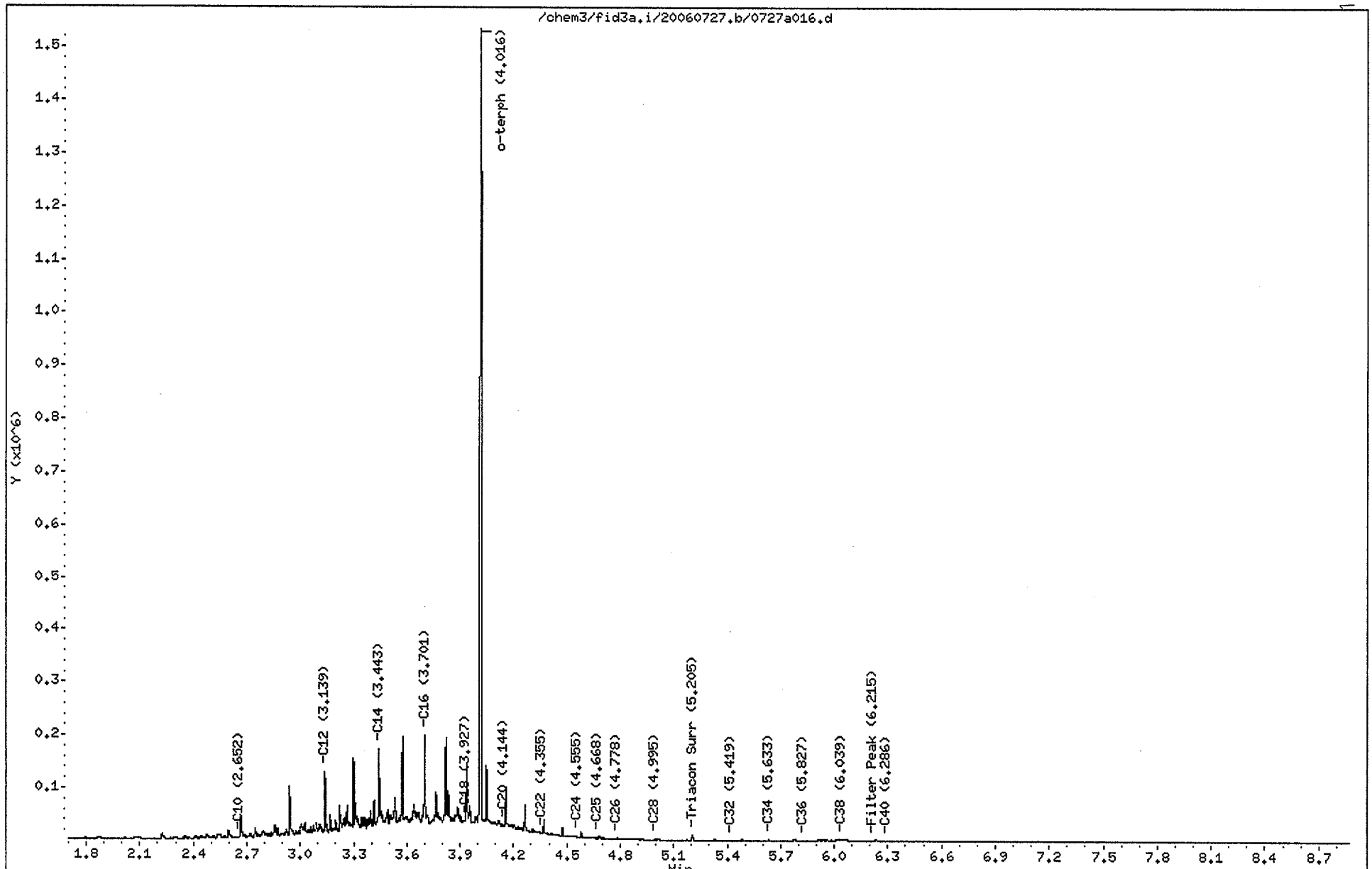
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1471



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006 SDG No.: JQ33

Analysis Time: 11:16 Lab ID: MOIL#2

Instrument: FID3A.I Lab File Name: 0727a017.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4144951	439.5	500	-12.1
AK103 (C25-C36)	3618186	569.9	500	14.0
n-Triacontane	653589	42.8	45	-4.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a017.d ARI ID: MOIL#2
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 11:16
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	22466	2
C8	1.440	0.002	1020	1331	DIESEL (C12-C24)	485586	39
C10	2.661	0.003	90	64	M.OIL (C24-C38)	4144951	439
C12	3.123	-0.014	2610	1570	AK-102 (C10-C25)	501051	35
C14	3.436	-0.006	473	307	AK-103 (C25-C36)	3618186	570
C16	3.696	-0.003	743	422			
C18	3.938	0.008	1783	1208			
C20	4.147	0.000	4014	3985			
C22	4.359	0.001	13463	9734	STODDARD (C8-C12)	22466	1
C24	4.567	0.002	27154	15325			
C25	4.674	0.003	34163	15550			
C26	4.775	-0.001	38333	9671			
C28	4.985	-0.002	44575	8786			
C32	5.424	0.004	58111	28985			
C34	5.634	0.006	62001	37061			
Filter Peak	6.216	-0.003	24558	11989			
C36	5.833	0.002	54207.0	22943	o-Terph Surrogate Rec = 0.9%		(7266)
C38	6.039	0.002	36448.0	11474	Triacon Surrogate Rec = 95.1%		(653589)
C40	6.288	0.000	21320	5858			
o-terph	4.011	0.005	12110	7266	JET-A (C10-C18)	54910	5
Triacon Surr	5.225	0.012	712271	653589			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a017.d

Date : 27-JUL-2006 11:16

Client ID:

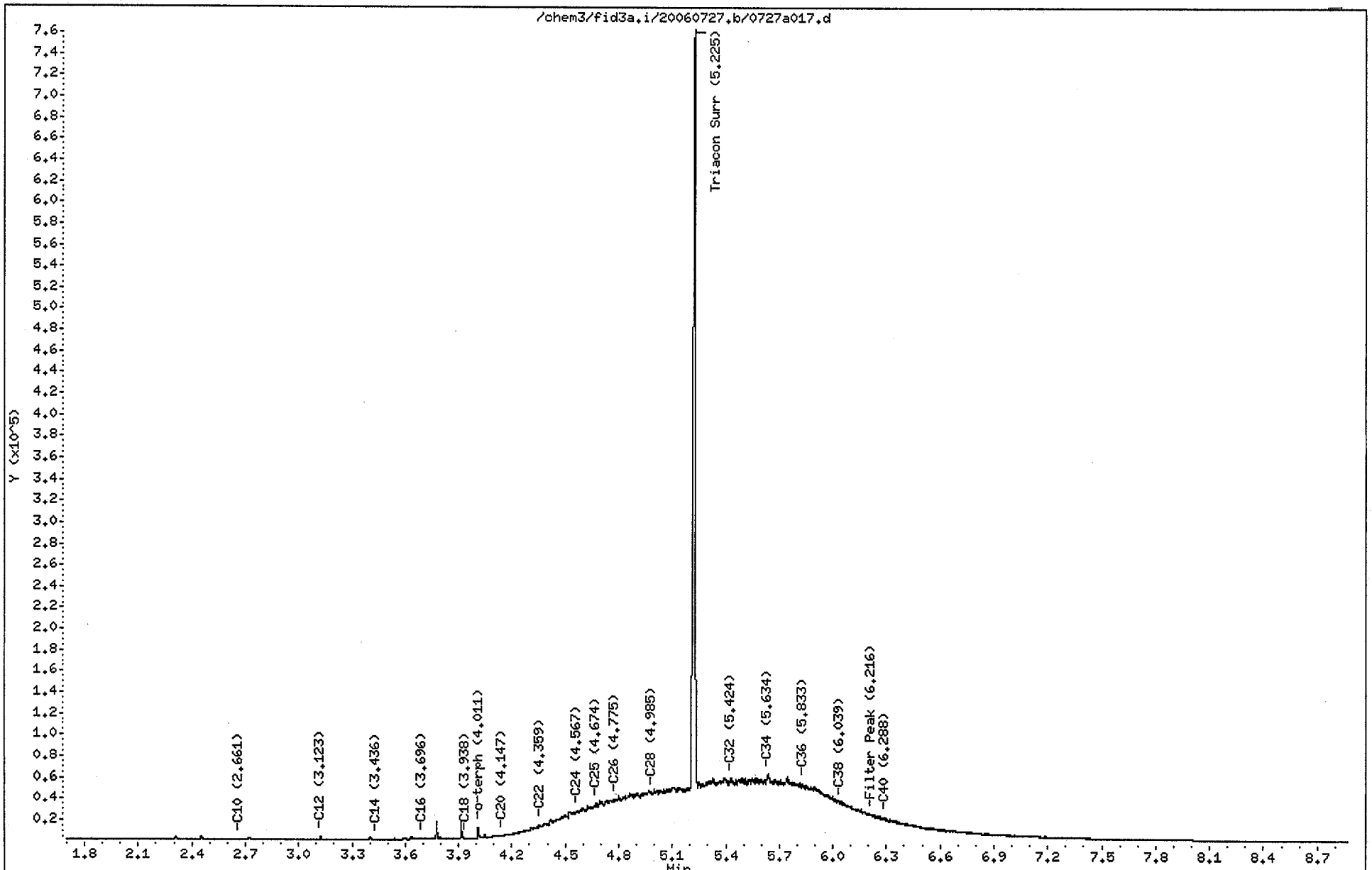
Sample Info: MOIL#2

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 14:09
Lab ID: DIESEL#3

Instrument: FID3A.I
Lab File Name: 0727a028.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3051845	246.6	250	-1.4
AK102 (C10-C25)	3595833	247.8	250	-0.9
Terphenyl	841207	46.2	45	2.7

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a028.d ARI ID: DIESEL#3
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 14:09
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.273	0.020	11698	17138	GAS (Tol-C12)	709557	54
C8	1.434	-0.004	1959	2535	DIESEL (C12-C24)	3051845	247
C10	2.656	-0.002	4316	2573	M.OIL (C24-C38)	145704	15
C12	3.138	0.001	132367	56678	AK-102 (C10-C25)	3595833	248
C14	3.443	0.001	178770	97740	AK-103 (C25-C36)	127384	20
C16	3.702	0.003	202785	95266			
C18	3.928	-0.002	38151	16982			
C20	4.144	-0.003	29850	16793			
C22	4.356	-0.002	16849	11748	STODDARD (C8-C12)	675704	45
C24	4.560	-0.005	7940	5893			
C25	4.667	-0.003	4757	2306			
C26	4.779	0.003	2929	2033			
C28	4.985	-0.002	1408	694			
C32	5.417	-0.003	943	403			
C34	5.639	0.011	2118	3013			
Filter Peak	6.221	0.002	1511	572			
C36	5.831	0.000	1375.0	518	o-Terph Surrogate Rec = 102.7%		(841207)
C38	6.040	0.003	1543.0	276	Triacon Surrogate Rec = 1.1%		(7892)
C40	6.286	-0.002	1466	1104			
o-terph	4.021	0.016	1514693	841207	JET-A (C10-C18)	2748811	237
Triacon Surr	5.218	0.006	12795	7892			

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

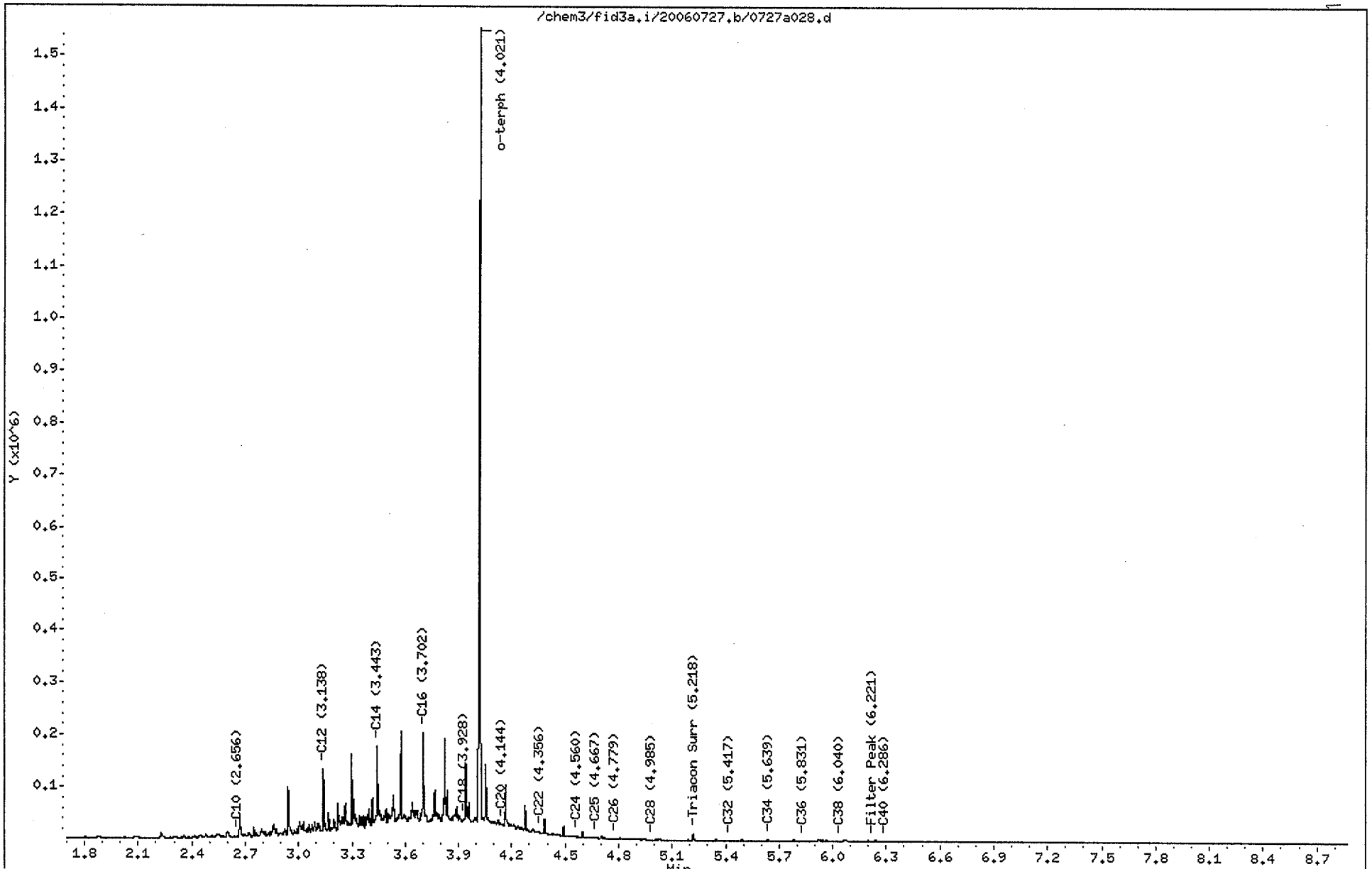
Data File: /chem3/fid3a.i/20060727.b/0727a028.d
Date : 27-JUL-2006 14:09
Client ID:
Sample Info: DIESEL#3

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1477



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 14:24
Lab ID: MOIL#3

Instrument: FID3A.I
Lab File Name: 0727a029.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4179744	443.2	500	-11.4
AK103 (C25-C36)	3660195	576.5	500	15.3
n-Triacontane	662273	43.4	45	-3.7

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a029.d ARI ID: MOIL#3
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 14:24
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	20270	2
C8	1.459	0.021	865	172	DIESEL (C12-C24)	504320	41
C10	2.661	0.003	67	20	M.OIL (C24-C38)	4179744	443
C12	3.123	-0.014	2647	1522	AK-102 (C10-C25)	511631	35
C14	3.438	-0.004	445	209	AK-103 (C25-C36)	3660195	576
C16	3.693	-0.006	705	485			
C18	3.938	0.007	1851	1085			
C20	4.148	0.001	4081	2495			
C22	4.362	0.004	13875	12962	STODDARD (C8-C12)	20270	1
C24	4.562	-0.003	27201	18405			
C25	4.670	-0.001	32562	10926			
C26	4.779	0.003	38902	8396			
C28	4.991	0.003	46000	17242			
C32	5.419	-0.001	55878	18637			
C34	5.627	-0.001	56424	20067			
Filter Peak	6.222	0.003	23665	14524			
C36	5.837	0.006	52722.0	36079	o-Terph Surrogate Rec = 0.9%		(7064)
C38	6.037	0.000	37281.0	36512	Triacon Surrogate Rec = 96.3%		(662273)
C40	6.292	0.003	20626	10913			
o-terph	4.012	0.006	12791	7064	JET-A (C10-C18)	51507	4
Triacon Surr	5.230	0.018	789760	662273			

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a029.d

Date : 27-JUL-2006 14:24

Client ID:

Sample Info: MOIL#3

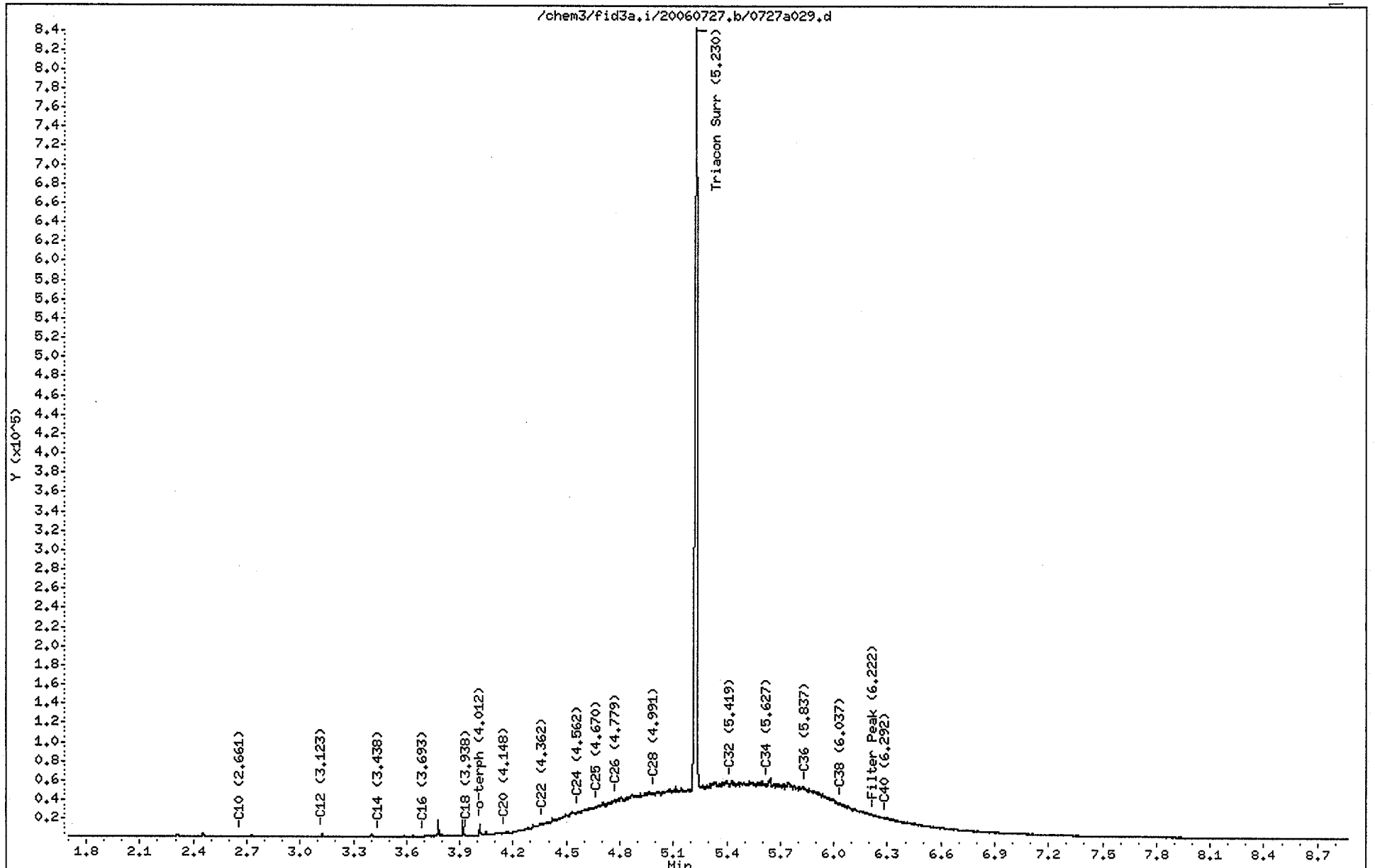
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1480



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 16:30
Lab ID: DIESEL#4

Instrument: FID3A.I
Lab File Name: 0727a037.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3087801	249.5	250	-0.2
AK102 (C10-C25)	3638445	250.7	250	0.3
Terphenyl	846608	46.5	45	3.4

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a037.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006

ARI ID: DIESEL#4
Client ID:
Injection: 27-JUL-2006 16:30

Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.270	0.017	12991	19565	GAS (Tol-C12)	724901	55
C8	1.431	-0.007	2085	2823	DIESEL (C12-C24)	3087801	250
C10	2.654	-0.004	4478	2842	M.OIL (C24-C38)	161354	17
C12	3.139	0.002	137363	58233	AK-102 (C10-C25)	3638445	251
C14	3.443	0.001	181200	85693	AK-103 (C25-C36)	137445	22
C16	3.699	0.000	206751	94366			
C18	3.934	0.004	150808	84633			
C20	4.143	-0.004	30016	15400			
C22	4.353	-0.004	14462	7640	STODDARD (C8-C12)	686110	46
C24	4.558	-0.007	6969	4640			
C25	4.680	0.010	8967	7122			
C26	4.773	-0.002	2787	977			
C28	4.992	0.005	1914	1606			
C32	5.415	-0.005	1456	1342			
C34	5.632	0.004	2801	4167			
Filter Peak	6.218	-0.001	1963	429			
C36	5.832	0.001	2048.0	1009	o-Terph Surrogate Rec = 103.4%		(846608)
C38	6.037	0.000	2190.0	1217	Triacon Surrogate Rec = 1.3%		(8807)
C40	6.292	0.004	1993	1062			
o-terph	4.013	0.008	1533796	846608	JET-A (C10-C18)	2783975	240
Triacon Surr	5.203	-0.010	14273	8807			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a037.d

Date : 27-JUL-2006 16:30

Client ID:

Sample Info: DIESEL#4

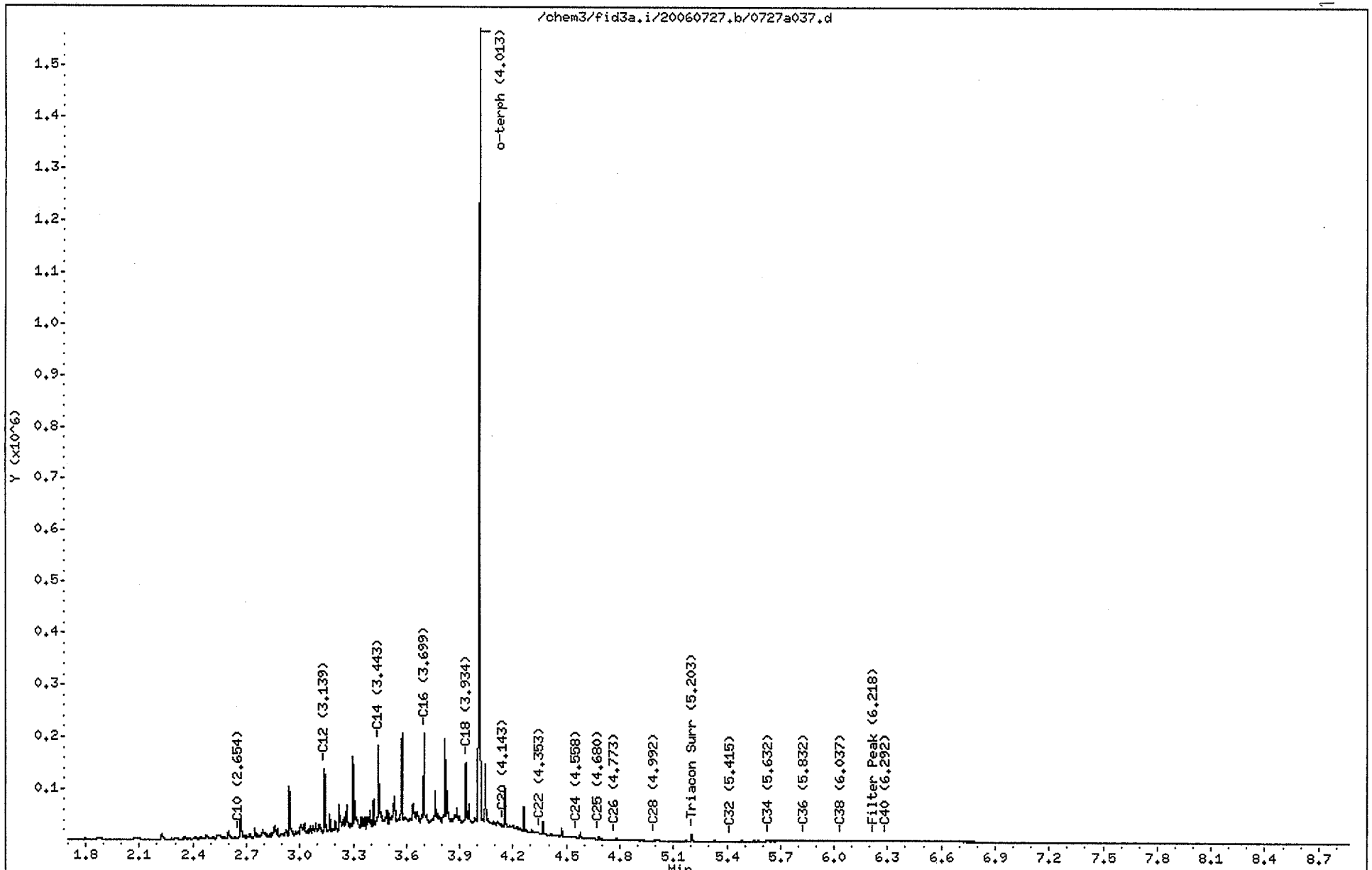
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1483



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 27-JUL-2006
SDG No.: JQ33

Analysis Time: 16:45
Lab ID: MOIL#4

Instrument: FID3A.I
Lab File Name: 0727a038.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	4004604	424.6	500	-15.1	<-
AK103 (C25-C36)	3562391	561.1	500	12.2	
n-Triacontane	659392	43.2	45	-4.1	

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

FORM VII-Diesel

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a038.d ARI ID: MOIL#4
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 16:45
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	28206	2
C8	1.435	-0.003	1178	1305	DIESEL (C12-C24)	491854	40
C10	2.660	0.001	133	44	M.OIL (C24-C38)	4004604	425
C12	3.122	-0.015	2810	1738	AK-102 (C10-C25)	519874	36
C14	3.439	-0.003	555	309	AK-103 (C25-C36)	3562391	561
C16	3.697	-0.002	811	525			
C18	3.939	0.009	2033	1428			
C20	4.149	0.002	4148	2958			
C22	4.353	-0.005	14027	8133	STODDARD (C8-C12)	28206	2
C24	4.565	-0.001	27597	14477			
C25	4.675	0.004	32471	14086			
C26	4.777	0.002	39402	10920			
C28	4.985	-0.003	46972	16509			
C32	5.417	-0.003	58291	13694			
C34	5.626	-0.002	53326	11561			
Filter Peak	6.221	0.002	19000	5613			
C36	5.828	-0.003	47720.0	20130	o-Terph Surrogate Rec = 1.1%		(9004)
C38	6.039	0.002	29942.0	12854	Triacon Surrogate Rec = 95.9%		(659392)
C40	6.292	0.004	15577	3110			
o-terph	4.013	0.007	15860	9004	JET-A (C10-C18)	59846	5
Triacon Surr	5.231	0.018	761020	659392			

JK 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a038.d

Date : 27-JUL-2006 16:45

Client ID:

Sample Info: MOIL#4

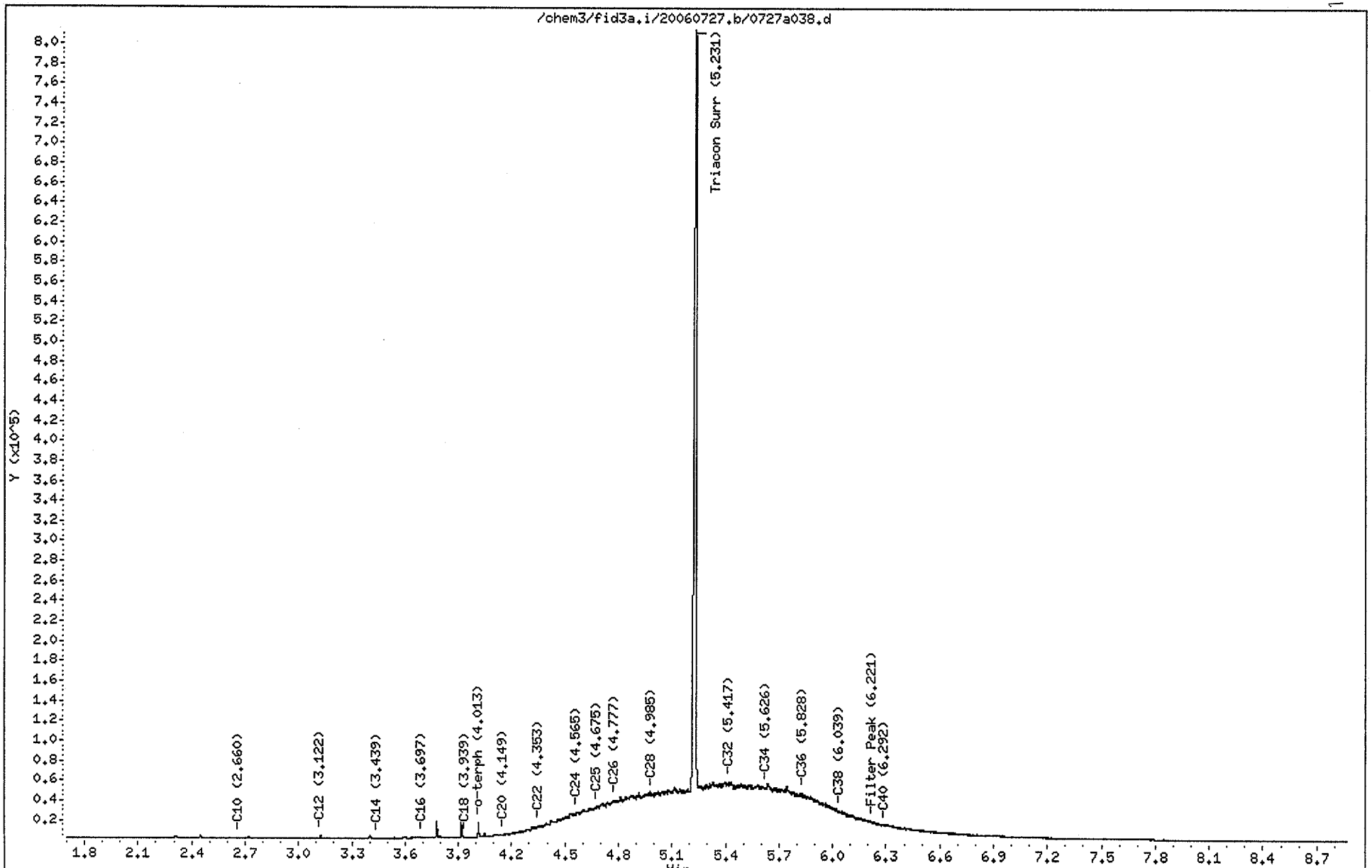
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1486



NWTPH-Dx Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a006.d
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/28/2006
Macro: 21-JUN-2006
ARI ID: JQ33MBS1
Client ID:
Injection: 27-JUL-2006 08:24
Dilution Factor: 1

Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.241	-0.012	26095	100529	GAS (Tol-C12)	130283	10
C8	1.435	-0.003	1279	1523	DIESEL (C12-C24)	48923	4
C10	2.658	0.000	316	263	M.OIL (C24-C38)	64417	7
C12	3.131	-0.006	447	413	AK-102 (C10-C25)	56780	4
C14	3.444	0.001	707	836	AK-103 (C25-C36)	49864	8
C16	3.695	-0.004	1012	692			
C18	3.931	0.000	710	503			
C20	4.150	0.003	808	733			
C22	4.360	0.002	745	313	STODDARD (C8-C12)	27998	2
C24	4.564	-0.002	660	780			
C25	4.665	-0.006	613	436			
C26	4.768	-0.007	530	480			
C28	4.981	-0.007	959	659			
C32	5.413	-0.007	2711	2446			
C34	5.629	0.000	2350	2382			
Filter Peak	6.236	0.017	1269	1300			
C36	5.833	0.002	1052.0	946	o-Terph Surrogate Rec = 82.3%		(673792)
C38	6.043	0.006	1216.0	1389	Triacon Surrogate Rec = 87.2%		(599413)
C40	6.287	-0.002	965	383			
o-terph	4.006	0.000	1540148	673792	JET-A (C10-C18)	32910	3
Triacon Surr	5.210	-0.003	798187	599413			

JR 07/28/06

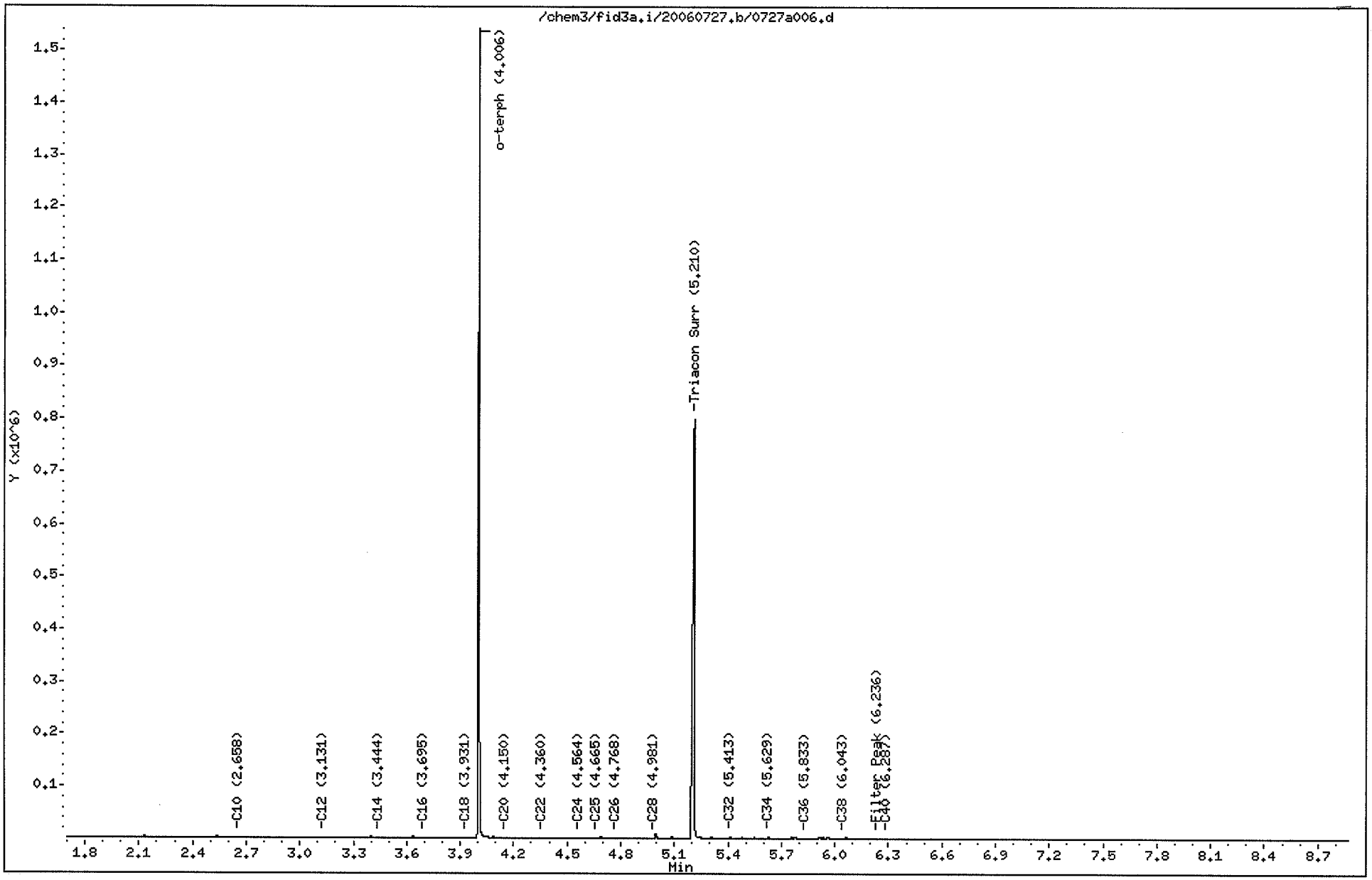
Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a006.d
Date : 27-JUL-2006 08:24
Client ID:
Sample Info: JQ33MBS1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a012.d ARI ID: JQ33DMS
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 09:58
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.254	0.000	23890	26284	GAS (Tol-C12)	2846211	216
C8	1.424	-0.014	52261	37366	DIESEL (C12-C24)	16341692	1321
C10	2.663	0.004	178233	97119	M.OIL (C24-C38)	4898137	519
C12	3.138	0.001	591408	264206	AK-102 (C10-C25)	18626545	1284
C14	3.445	0.003	841723	396902	AK-103 (C25-C36)	4637693	730
C16	3.706	0.007	832457	518268			
C18	3.926	-0.005	193629	45780			
C20	4.146	-0.001	165185	70813			
C22	4.353	-0.005	113738	106743	STODDARD (C8-C12)	2721954	181
C24	4.568	0.003	271464	214107			
C25	4.673	0.002	74449	62857			
C26	4.778	0.003	56267	13242			
C28	4.989	0.001	57613	33191			
C32	5.420	0.000	56031	29189			
C34	5.627	-0.002	52864	17168			
Filter Peak	6.218	-0.001	11926	12829			
C36	5.833	0.002	34237.0	16839	o-Terph Surrogate Rec = 82.9%		(678935)
C38	6.030	-0.007	18686.0	17104	Triacon Surrogate Rec = 84.0%		(577200)
C40	6.288	-0.001	11212	3317			
o-terph	4.022	0.016	1095033	678935	JET-A (C10-C18)	13260121	1145
Triacon Surr	5.225	0.013	688953	577200			

JR 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

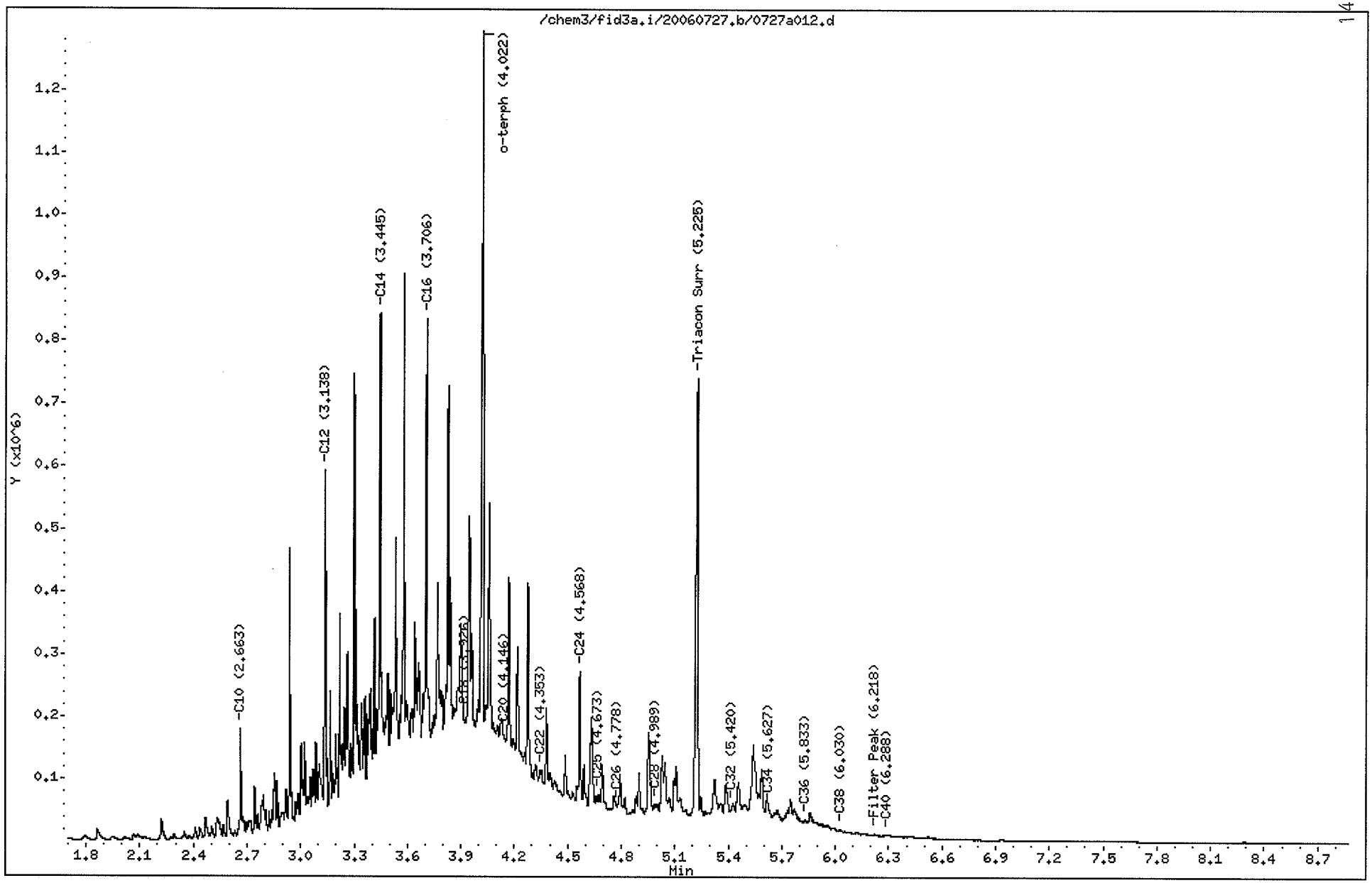
Data File: /chem3/fid3a.i/20060727.b/0727a012.d
Date : 27-JUL-2006 09:58
Client ID:
Sample Info: JQ33DMS

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1491



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a013.d ARI ID: JQ33DMSD
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 10:13
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.249	-0.004	19337	21434	GAS (Tol-C12)	2692762	204
C8	1.422	-0.016	57691	42159	DIESEL (C12-C24)	16518802	1335
C10	2.663	0.005	171703	92007	M.OIL (C24-C38)	7571093	803
C12	3.138	0.001	547491	248082	AK-102 (C10-C25)	18679078	1287
C14	3.444	0.002	815199	465131	AK-103 (C25-C36)	7168432	1129
C16	3.693	-0.005	207143	33009			
C18	3.929	-0.001	191066	49074			
C20	4.147	0.001	167505	32882			
C22	4.356	-0.001	125410	71295	STODDARD (C8-C12)	2588124	172
C24	4.559	-0.006	109703	72910			
C25	4.666	-0.005	97566	70404			
C26	4.767	-0.009	97918	130819			
C28	4.989	0.001	87015	34161			
C32	5.415	-0.005	86019	50011			
C34	5.625	-0.003	115019	134283			
Filter Peak	6.219	0.000	17403	4725			
C36	5.829	-0.002	51113.0	17197	o-Terph Surrogate Rec = 79.9%		(653773)
C38	6.036	0.000	29943.0	24959	Triacon Surrogate Rec = 77.6%		(533726)
C40	6.287	-0.001	16005	3165			
o-terph	4.023	0.017	932886	653773	JET-A (C10-C18)	12736966	1100
Triacon Surr	5.232	0.020	590571	533726			

JE 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

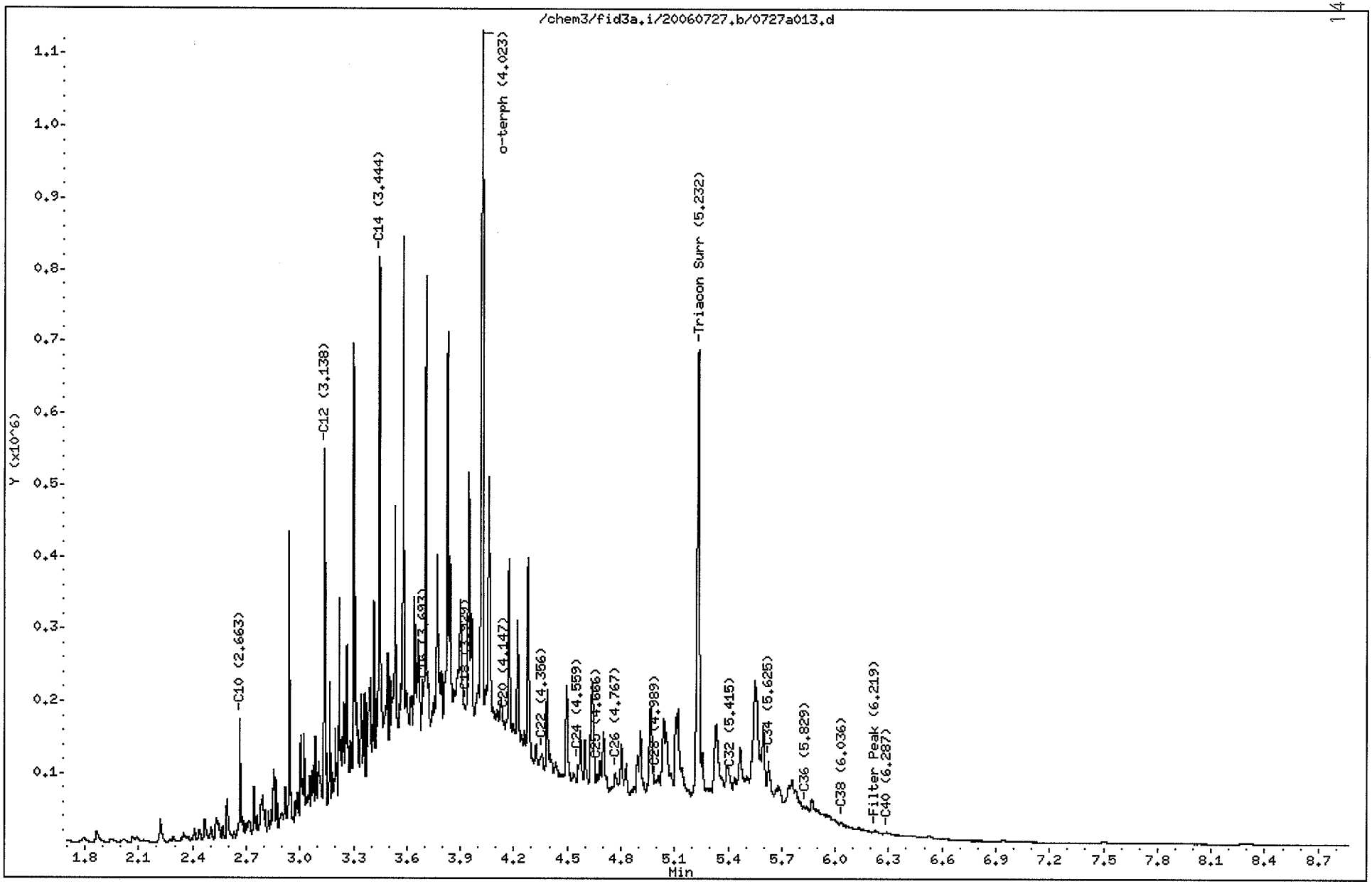
Data File: /chem3/fid3a.i/20060727.b/0727a013.d
Date : 27-JUL-2006 10:13
Client ID:
Sample Info: JQ33DMSD

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1493



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060727.b/0727a007.d ARI ID: JQ33LCSS1
Method: /chem3/fid3a.i/20060727.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 27-JUL-2006 08:40
Operator: JR
Report Date: 07/28/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:21-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.256	0.003	22692	24140	GAS (Tol-C12)	3266695	248
C8	1.439	0.001	3382	4390	DIESEL (C12-C24)	16122696	1303
C10	2.663	0.005	238879	119816	M.OIL (C24-C38)	335195	36
C12	3.139	0.002	646521	296371	AK-102 (C10-C25)	18767233	1293
C14	3.445	0.003	916207	510946	AK-103 (C25-C36)	320906	51
C16	3.705	0.006	890140	598420			
C18	3.925	-0.005	202076	48212			
C20	4.145	-0.002	157097	34004			
C22	4.364	0.006	185259	128673	STODDARD (C8-C12)	3165753	211
C24	4.565	0.000	84195	79167			
C25	4.667	-0.004	43320	34792			
C26	4.769	-0.006	24281	21512			
C28	4.981	-0.007	6500	4969			
C32	5.412	-0.008	3418	3380			
C34	5.629	0.001	1736	1908			
Filter Peak	6.222	0.003	991	372			
C36	5.832	0.001	1136.0	1487	o-Terph Surrogate Rec = 89.5%		(733129)
C38	6.045	0.008	1177.0	1561	Triacon Surrogate Rec = 94.2%		(647267)
C40	6.283	-0.005	940	335			
o-terph	4.015	0.009	1107875	733129	JET-A (C10-C18)	14182415	1225
Triacon Surr	5.210	-0.002	839741	647267			

JL 07/28/06

Range Times: NW Diesel(3.137 - 4.565) AK102(2.66 - 4.67) Jet A(2.66 - 3.93)
NW M.Oil(4.57 - 6.04) AK103(4.67 - 5.83) OR Diesel(2.66 - 4.99)

Data File: /chem3/fid3a.i/20060727.b/0727a007.d

Date : 27-JUL-2006 08:40

Client ID:

Sample Info: JQ33LCSS1

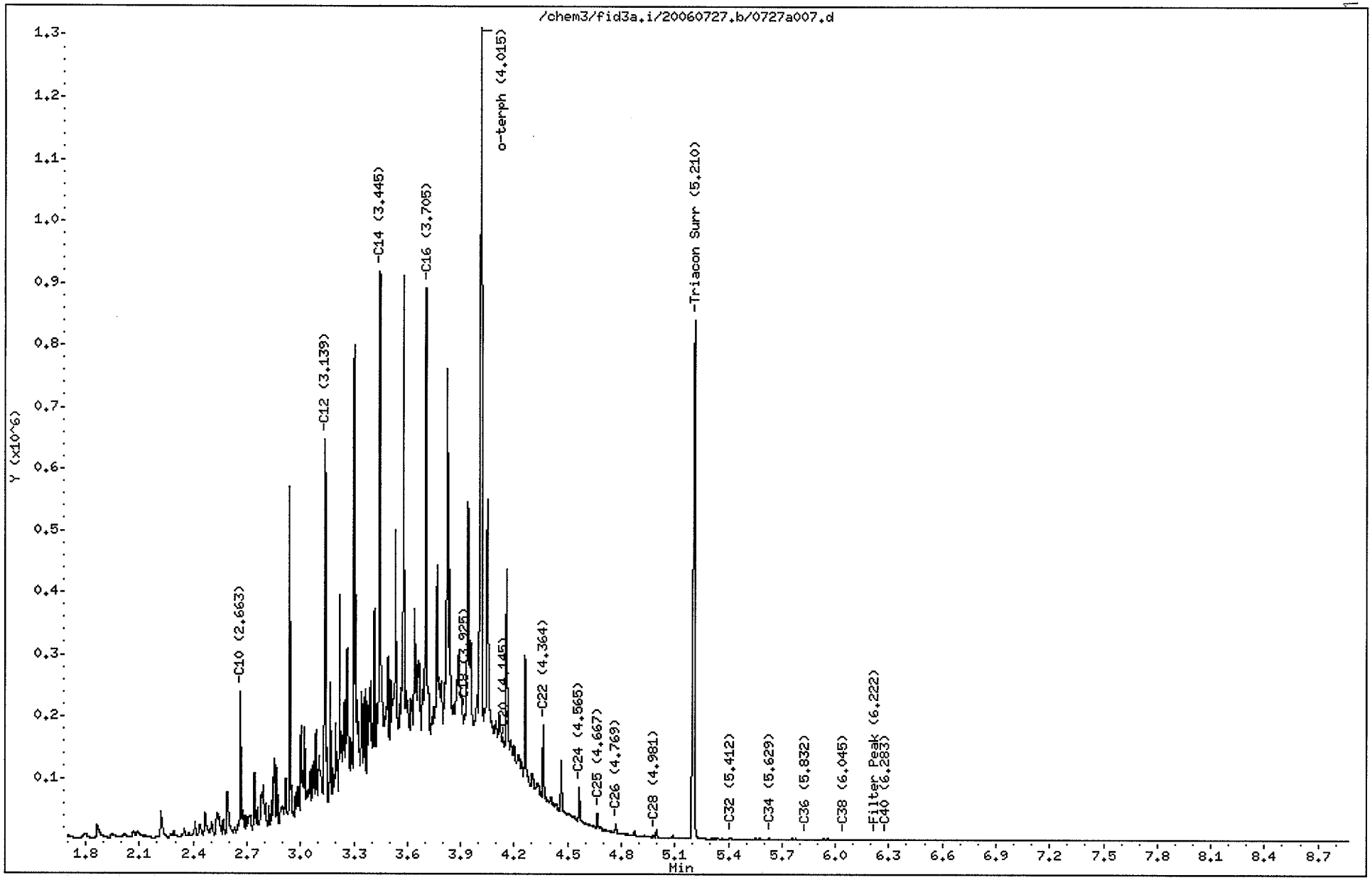
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1495



NWTPH-Dx Analysis
Extraction Bench Sheets and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

QA LIMs # _____
EXT-LIMs # _____
Bid # TP07 26A-01 ✓

NWTPHD/AK102/103/NWHCID - Soil
✓ (3550B) Microtip ✕ In house ✕
(3545A) ASE _____
Med.Shakeout _____
Acid/Silica Gel Clean _____
KD X
Turbovap X

Client Name: Anchor Environmental
Bristol Environmental

ARI Job No(s): JQ33, JQ48

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted (g) ✓	Volume of Solvent Added (HCID)	KD	Final Effective Volume 1mL ✓	Volume To Lab 1mL ✓	Time Extracted 14:45 Comments
MB: JQ33 MB	7/26	10.00					Due to high volume sample was
SB: SB	↓	10.06					boiled down via
A	checked	10.00					KD GAM 7-26-06
B		10.02					
C		10.04					
D		10.04					
DMS		10.02					
DMSD		10.04					
E		10.04					
F		10.00					
G		10.04					
H		10.02					
I		10.04					
J		10.00					
K		10.04					
L		10.04					
M		10.02					
N		10.02					
O		10.00					
P		10.02					
Q	↓	10.00					
JQ48 E	checked	10.00					
EDUP	↓	10.04					
F		10.04					
Date/Analyst: LW	7/26	~~10.04 LW~~		GAM 7-26-06			

Surrogate Amount: 100 µl
Concentration: 456 ng/mL
Added By: LW /Spk. Witness TH
ID: 1412-4

Spike Amount: 100 µl
Concentration: 15,000 ng/mL
Added By: LW /Spk. Witness TH
ID: 1409-3

Neutral glasswool ID: 3/17/06 #6
(DCM) Solvent Lot ID: 32965
Conc. H2So4 ID: _____
Silica Gel ID: _____
Na2So4 ID: 7/19/06 #5

3013F

06-12926 MSD
06-13077 DUP

Revision 6
12/5/02

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JQ33 Client Name: Anchor

Parameter: TPHD Client Project: TH Early Action

3545 SOP Number(s) ☐ No Anomalies

List problems, corrective actions, and any other pertinent information:

All samples were filtered through a .45 µm filter AH 7-26-06

Extraction

Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: JQ33 Client ID: T4 Early Action

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

arameter(s): Diesel, mo.l, o-terphenyl

strument: FID: 3A ECD: B N/A

ates: Curve: Diesel mo.l 07/15/06 Analysis Start: 07/28/06 07/27/06

ndrin/DDT Breakdown <15%? YES / NO / NA

LCS/LCSD Recovery in Control? YES / NO

al Meets RF & %RSD Criteria? YES / NO

MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria YES / NO

Surrogate Recovery in Control? YES / NO

ernal Standard Meets Criteria? YES / NO / NA

Special Analysis Criteria Met? YES / NO / NA

ethod Blank in Control? YES / NO

tail problems, corrective actions and/or other pertinent information below (use reverse side hen necessary):

ditional Details on Reverse: Yes / No

alyst Signature: JR **Date:** 07/28/06

viewer's Signature: [signature] **Date:** 7/31/06

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: JQ33
Matrix: Sediment — Project: T4 EARLY ACTION
Date Received: 07/21/06 — 050332-01

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
06-12923-JQ33A	T4-B414-01-A	5.52 g	1.00 mL	D	07/26/06
06-12924-JQ33B	T4-B414-01-B	5.19 g	1.00 mL	D	07/26/06
06-12925-JQ33C	T4-B414-01-C	5.38 g	1.00 mL	D	07/26/06
06-12926-072606MB1	Method Blank	10.0 g	1.00 mL	-	07/26/06
06-12926-072606LCS1	Lab Control	10.0 g	1.00 mL	-	07/26/06
06-12926-JQ33D	T4-B414-02-A	5.05 g	1.00 mL	D	07/26/06
06-12926-JQ33DMS	T4-B414-02-A	5.04 g	1.00 mL	D	07/26/06
06-12926-JQ33DMSD	T4-B414-02-A	5.05 g	1.00 mL	D	07/26/06
06-12927-JQ33E	T4-B414-02-B	5.08 g	1.00 mL	D	07/26/06
06-12928-JQ33F	T4-B414-02-C	5.18 g	1.00 mL	D	07/26/06
06-12929-JQ33G	T4-B414-03-A	5.04 g	1.00 mL	D	07/26/06
06-12930-JQ33H	T4-B414-03-B	4.97 g	1.00 mL	D	07/26/06
06-12931-JQ33I	T4-B414-03-C	5.05 g	1.00 mL	D	07/26/06
06-12932-JQ33J	T4-B414-04-A	4.77 g	1.00 mL	D	07/26/06
06-12933-JQ33K	T4-B414-04-B	5.31 g	1.00 mL	D	07/26/06
06-12934-JQ33L	T4-B414-04-C	5.09 g	1.00 mL	D	07/26/06
06-12935-JQ33M	T4-S3-01-D	5.10 g	1.00 mL	D	07/26/06
06-12936-JQ33N	T4-S3-01-E	5.13 g	1.00 mL	D	07/26/06
06-12937-JQ33O	T4-S3-01-F	5.02 g	1.00 mL	D	07/26/06
06-12938-JQ33P	T4-S3-01-G	5.55 g	1.00 mL	D	07/26/06
06-12939-JQ33Q	T4-S3-01-H	5.44 g	1.00 mL	D	07/26/06

Basis: D=Dry Weight W=As Received

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 07/15/06 Analysis: TPHd Analyst: JR

GC Program: TPH Column No: ~~R~~ 167375 JR 07/19/06 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel/moil/JetA 07/15/06

IS/SS	Ical/Ccal	LCS/ICV
N/A	RT	Diesel
	IB	Moil
	Diesel	
	Moil	
	Aoil	
	JetA	

Time	Filename	LabID	ClientId	DF
1131	0715a001.d	RINSE		1
1147	0715a002.d	RT		1
1203	0715a003.d	IB		1
1219	0715a004.d	DIESEL		1
1313	0715a005.d	RINSE		1
1329	0715a006.d	RINSE		
1345	0715a007.d	RINSE		
1401	0715a008.d	RINSE		
1417	0715a009.d	DCM RINSE		
1433	0715a010.d	DCM RINSE		
1449	0715a011.d	RT		
1505	0715a012.d	IB		
1521	0715a013.d	G/D HCIDS		
1537	0715a014.d	50 PPM DIESEL		
1553	0715a015.d	100 PPM DIESEL		
1608	0715a016.d	250 PPM DIESEL		
1624	0715a017.d	500 PPM DIESEL		
1640	0715a018.d	1000 PPM DIESEL		
1656	0715a019.d	2500 PPM DIESEL		
1712	0715a020.d	DIESEL ICV		
1728	0715a021.d	DIESEL CVS		
1744	0715a022.d	50 PPM JET A		

Time	Filename	LabID	ClientId	DF
1759	0715a023.d	100 PPM JET A		
1815	0715a024.d	250 PPM JET A		
1831	0715a025.d	500 PPM JET A		
1847	0715a026.d	1000 PPM JET A		
1903	0715a027.d	2500 PPM JET A		
1919	0715a028.d	JET A CVS		
1935	0715a029.d	100 PPM MOIL		
1950	0715a030.d	250 PPM MOIL		
2006	0715a031.d	500 PPM MOIL		
2022	0715a032.d	1000 PPM MOIL		
2038	0715a033.d	2500 PPM MOIL		
2054	0715a034.d	5000 PPM MOIL		
2109	0715a035.d	MOIL ICV		
2125	0715a036.d	MOIL CVS		
2141	0715a037.d	100 PPM AOIL		
2157	0715a038.d	250 PPM AOIL		
2212	0715a039.d	500 PPM AOIL		
2228	0715a040.d	1000 PPM AOIL		
2244	0715a041.d	2500 PPM AOIL		
2259	0715a042.d	5000 PPM AOIL		
2315	0715a043.d	AOIL CVS		
2331	0715a044.d	RINSE		
2346	0715a045.d	DIESEL #1		

Time	Filename	LabID	ClientId	DF
0002	0715a046.d	MOIL #1		1
0018	0715a047.d	JET A #1		1
0033	0715a048.d	JO91MBS1		
0049	0715a049.d	JO91LCSS1		
0104	0715a050.d	JO91LCSDS1		
0120	0715a051.d	JO91A		
0135	0715a052.d	JO91B		
0151	0715a053.d	JO91C		
0206	0715a054.d	JP14G		2
0222	0715a055.d	JP14H		5
0237	0715a056.d	JP14L		4
0253	0715a057.d	RINSE		
0308	0715a058.d	DIESEL #2		
0323	0715a059.d	MOIL #2		
0339	0715a060.d	JET A #2		
0354	0715a061.d	JP14N		1
0410	0715a062.d	JP14O		
0425	0715a063.d	RINSE		
0440	0715a064.d	DIESEL #2		
0455	0715a065.d	MOIL #2		

JR JR JR 07/19/06

Maintenance / Comments

Curves and ccals pass

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 07/27/06 Analysis: TPHd Analyst: JK

GC Program: TPH Column No: RTX-1 Column Type: 167375

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel/mod 07/15/06

IS/SS

N/A

Ical/Ccal

RT
IB
Diesel mod

LCS/ICV

N/A

	Time	Filename	LabID	ClientId	DF
1	0707	0727a001.d	DCM		
2	0722	0727a002.d	RT		
3	0737	0727a003.d	IB		
4	0753	0727a004.d	DIESEL#1		
5	0809	0727a005.d	MOIL#1		
6	0824	0727a006.d	JQ33MBS1	JQ33MBS1	1
7	0840	0727a007.d	JQ33LCSS1	JQ33LCSS1	1
8	0855	0727a008.d	JQ33A	T4-B414-01-A	20
9	0911	0727a009.d	JQ33B	T4-B414-01-B	1
10	0927	0727a010.d	JQ33C	T4-B414-01-C	1
11	0942	0727a011.d	JQ33D	T4-B414-02-A	1
12	0958	0727a012.d	JQ33DMS	T4-B414-02-A MS	34
13	1013	0727a013.d	JQ33DMSD	T4-B414-02-A MSD	35
14	1029	0727a014.d	JQ33E	T4-B414-02-B	1
15	1044	0727a015.d	RINSE		1
16	1100	0727a016.d	DIESEL#2		1
17	1116	0727a017.d	MOIL#2		1
18	1131	0727a018.d	JQ33F	T4-B414-02-C	1
19	1147	0727a019.d	JQ33G	T4-B414-03-A	1
20	1203	0727a020.d	JQ33H	T4-B414-03-B	1
21	1219	0727a021.d	JQ33I	T4-B414-03-C	1
22	1234	0727a022.d	JQ33J	T4-B414-04-A	1
					45

	Time	Filename	LabID	ClientId	DF
23	1250	0727a023.d	JQ33K	T4-B414-04-B	1
24	1306	0727a024.d	JQ33L	T4-B414-04-C	1
25	1321	0727a025.d	JQ33M	T4-S3-01-D	20
26	1337	0727a026.d	JQ33N	T4-S3-01-E	20
27	1353	0727a027.d	RINSE		1
28	1409	0727a028.d	DIESEL#3		1
29	1424	0727a029.d	MOIL#3		1
30	1440	0727a030.d	JQ33O	T4-S3-01-F	20
31	1456	0727a031.d	JQ33P	T4-S3-01-G	20
32	1511	0727a032.d	JQ33Q	T4-S3-01-H	20
33	1527	0727a033.d	JQ48E	F.L.SWPI@3'	1
34	1543	0727a034.d	JQ48EDUP	F.L.SWPI@3' DUP	
35	1558	0727a035.d	JQ48F	DUP	1
36	1614	0727a036.d	RINSE		1
37	1630	0727a037.d	DIESEL#4		1
38	1645	0727a038.d	MOIL#4		1
39	1701	0727a039.d	JQ25MBW1	JQ25MBW1	1
40	1717	0727a040.d	JQ25LCSW1	JQ25LCSW1	1
41	1732	0727a041.d	JQ45A		1
42	1748	0727a042.d	JQ45B		1
43	1803	0727a043.d	JQ45C		1
44	1819	0727a044.d	JQ45D		1
45	1835	0727a045.d	JQ45E		1

	Time	Filename	LabID	ClientId	DF
46	1850	0727a046.d	RINSE		1
47	1906	0727a047.d	DIESEL#5		1
48	1921	0727a048.d	MOIL#5		1

Maintenance / Comments

CCals pass JK 08/09/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

Project ID: mo.l curve Client ID: ART

SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

ameter(s): mo.l , n.triacontane

rument: FID: 3A ECD: N/A

es: Curve: Mo.l 07/15/06 Analysis Start: 07/15/06

rin/DDT Breakdown <15%? YES / NO / NA

LCS/LCSD Recovery in Control? YES / NO / NA

Meets RF & %RSD Criteria? YES / NO

MS/MSD Recovery in Control? YES / NO

l Meets RF & %RSD Criteria YES / NO

Surrogate Recovery in Control? YES / NO

nal Standard Meets Criteria? YES / NO / NA

Special Analysis Criteria Met? YES / NO / NA

od Blank in Control? YES / NO

il problems, corrective actions and/or other pertinent information below (use reverse side n necessary):

All targets < 20%

ional Details on Reverse: Yes / No

st Signature: Date: 07/18/01

wer's Signature: Date: 7.18.2006

1503

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

Project ID: AK102 Diesel curve Client ID: A.R.I

SOP: 403S(PCB) 405S(Herbicides) ~~407S(TPH-D)~~ 409S(HCID) 423S(Pesticides) Other

ameter(s): A/S Diesel, Diesel, AK102, o-terphenyl

rument: FID: 3A ECD: N/A

es: Curve: Diesel 07/15/06 Analysis Start: 07/15/06

rin/DDT Breakdown <15%? YES / NO / NA LCS/LCSD Recovery in Control? YES / NO NA

Meets RF & %RSD Criteria? YES / NO MS/MSD Recovery in Control? YES / NO

l Meets RF & %RSD Criteria YES / NO Surrogate Recovery in Control? YES / NO

nal Standard Meets Criteria? YES / NO NA Special Analysis Criteria Met? YES / NO / NA

od Blank in Control? YES / NO

il problems, corrective actions and/or other pertinent information below (use reverse side n necessary): all points w/in 20%.

ional Details on Reverse: Yes / No

st Signature: JR Date: JR 07/18/06

wer's Signature: Date: 7.18.2006

1504

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
T4-B414-01-A	JQ33A	06-12923	
T4-B414-01-AD	JQ33ADUP	06-12923	
T4-B414-01-AS	JQ33ASPK	06-12923	
T4-B414-01-B	JQ33B	06-12924	
PBS	JQ33MB1	06-12924	
LCSS	JQ33MB1SPK	06-12924	
T4-B414-01-C	JQ33C	06-12925	
T4-B414-02-A	JQ33D	06-12926	
T4-B414-02-B	JQ33E	06-12927	
T4-B414-02-C	JQ33F	06-12928	
T4-B414-03-A	JQ33G	06-12929	
T4-B414-03-B	JQ33H	06-12930	
T4-B414-03-C	JQ33I	06-12931	
T4-B414-04-A	JQ33J	06-12932	
T4-B414-04-B	JQ33K	06-12933	
T4-B414-04-C	JQ33L	06-12934	
T4-S3-01-D	JQ33M	06-12935	
T4-S3-01-E	JQ33N	06-12936	
T4-S3-01-F	JQ33O	06-12937	
T4-S3-01-G	JQ33P	06-12938	
T4-S3-01-H	JQ33Q	06-12939	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 8/1/06 Title: Inorganics Manager

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-A
DUPLICATE

Lab Sample ID: JQ33A
LIMS ID: 06-12923
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	26	31	17.5%	+/- 20%	
Zinc	6010B	126	132	4.7%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-A
MATRIX SPIKE

Lab Sample ID: JQ33A
LIMS ID: 06-12923
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	26	356	361	91.4%	
Zinc	6010B	126	220	90.2	104%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: JQ33MB
LIMS ID: 06-12924
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	7439-92-1	Lead	2	2	U
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	0.6	**1.2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: JQ33LCS
LIMS ID: 06-12924
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	192	200	96.0%	
Zinc	6010B	49.6	50.0	99.2%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP073121	2000.0	1968.04	98.4	2000.0	1971.77	98.6	1942.81	97.1	1934.05	96.7	1940.98	97.0	1930.48	96.5
Zinc	ZN	ICP	IP073121	1000.0	1005.26	100.5	1000.0	968.49	96.8	964.58	96.5	962.28	96.2	965.20	96.5	1024.61	102.5

1511

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Lead	PB	ICP	IP073121	2000.0	1913.30	95.7	1915.73	95.8	1897.61	94.9						
Zinc	ZN	ICP	IP073121	1000.0	988.83	98.9	997.12	99.7	1001.37	100.1						

1512

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Lead	PB	ICP	IP073121		20.0	19.03	**95.2**										
Zinc	ZN	ICP	IP073121		6.0	6.59	**109.8**										

1513

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Lead	PB	ICP	IP073121	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Zinc	ZN	ICP	IP073121	20.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Lead	PB	ICP	IP073121	3.0	20.0	20.0	U	20.0	U	20.0	U						
Zinc	ZN	ICP	IP073121	20.0	6.0	6.0	U	6.0	U	6.0	U						

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

ICS SOURCE: I.V.

RUNID: IP073121

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	198596.7	193917.0	**97.0**						
Antimony		1000	33.2	1063.6	**106.4**						
Arsenic		1000	19.0	1005.0	**100.5**						
Barium		1000	2.4	979.5	**98.0**						
Beryllium		1000	0.1	974.5	**97.5**						
Boron			0.3	-8.7							
Cadmium		1000	-0.7	1004.5	**100.5**						
Calcium	100000	100000	97805.2	95470.5	**95.5**						
Chromium		1000	1.8	948.2	**94.8**						
Cobalt		1000	-1.9	926.2	**92.6**						
Copper		1000	2.0	1047.5	**104.8**						
Iron	200000	200000	197983.1	192880.5	**96.4**						
Lead		1000	18.8	946.7	**94.7**						
Magnesium	100000	100000	99439.5	96941.0	**96.9**						
Manganese		1000	0.3	949.0	**94.9**						
Molybdenum			5.5	5.5							
Nickel		1000	-3.7	910.9	**91.1**						
Potassium			56.3	100.6							
Selenium		1000	-82.2	889.8	**89.0**						
Silicon			-19.9	-25.1							
Silver		1000	-1.2	982.6	**98.3**						
Sodium			35.4	25.2							
Strontium			1.3	1.4							
Thallium		1000	-42.1	877.9	**87.8**						
Tin			-8.9	-9.7							
Titanium			4.2	9.9							
Vanadium		1000	2.8	1012.8	**101.3**						
Zinc		1000	-4.6	899.1	**89.9**						

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

IDL DATE: 6/1/2006

PROJECT: T4 EARLY ACTION

ICP LR DATE: 6/19/2006

SDG: JQ33

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	ICP LINEAR RANGE (ug/L)
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	300000.0
Zinc	ZN	ICP	OPTIMA ICP 1	206.20		20	6.0	100000.0

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

IEC DATE: 6/19/2006

SDG: JQ33

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	16.2100000	0.0000000	0.0000000
Arsenic	188.98	0.0899919	0.0000000	0.1533550	0.0000000	0.0557918	0.0000000	0.0000000	0.3754730	0.3209290	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2555740	0.0000000	0.0000000	0.0719803
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	1.3822800	0.0463102	0.0000000	0.0000000	0.0000000	0.1963220	0.0000000	0.0000000	0.0100886
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0838568
Cobalt	228.62	-0.0170392	0.0000000	0.2412880	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0234430
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2000560	-0.0393520	0.0000000	-0.0946918
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.7498730	0.0000000	0.0000000
Lead	220.35	-0.1925250	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1485420	-1.6563300	0.6048040	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.3145300	-0.8640350	0.0000000	0.7372390
Manganese	257.61	0.0072299	0.0000000	0.0000000	0.0000000	0.0055500	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0221489	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.0980400	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0415558
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	8.9586100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	3.5279800	0.3870280	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.1774780	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2123760	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-7.0582400	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0129802	0.3119720	0.0000000	0.3266740	0.0000000	0.0266652

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

IEC DATE: 6/19/2006

SDG: JQ33

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	19.6878000	0.0000000	0.0000000	0.0000000	0.7151350	0.0000000	16.7609000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.3295220	0.0000000	0.0000000	-0.8642410	0.0000000	-3.4575900	0.0000000
Arsenic	188.98	0.0000000	0.0000000	0.9150530	0.0000000	0.0000000	0.0000000	2.5519000	0.0000000	0.0000000	0.1492760
Barium	233.53	0.0000000	0.0000000	0.0000000	0.1240640	0.0000000	0.0000000	0.0000000	0.0000000	0.4604860	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.5675800	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2000800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.1529370	0.5096240	0.1429920	0.0000000	0.0000000	0.0000000	0.0965822	0.0000000	0.1796520	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.3795350	0.0320069	0.0000000	0.0000000	1.7290300	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0085698	0.0000000	0.7344770	0.0000000	0.0000000	0.0000000	0.2196270	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.7593200	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3190660	-0.1742160	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-3.2635900	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0170007	0.0000000	0.0000000	0.0000000	-0.2391890	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0236906	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.5765410	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	1.1348600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1621690	0.1065380	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3119270	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	50.8830000	0.0000000	0.0000000	52.0990000
Thallium	190.80	0.0000000	0.0000000	-3.5954300	0.0000000	0.0000000	0.0000000	0.8751120	0.0000000	2.2588300	0.0000000
Tin	189.93	0.0270703	0.0000000	0.0000000	0.0000000	-0.0530103	-1.8271700	0.1974990	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	1.0370700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1494890	-0.7380980	0.0000000	0.0000000	0.0000000	0.4684280	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.3271770	0.0000000	-0.0935990	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ33

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 7/27/2006

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
T4-B414-01-A	JQ33A	1.027	0.0	50.0
T4-B414-01-AD	JQ33ADUP	1.031	0.0	50.0
T4-B414-01-AS	JQ33ASPK	1.024	0.0	50.0
T4-B414-01-B	JQ33B	1.048	0.0	50.0
T4-B414-01-C	JQ33C	1.027	0.0	50.0
T4-B414-02-A	JQ33D	1.043	0.0	50.0
T4-B414-02-B	JQ33E	1.080	0.0	50.0
T4-B414-02-C	JQ33F	1.018	0.0	50.0
T4-B414-03-A	JQ33G	1.076	0.0	50.0
T4-B414-03-B	JQ33H	1.065	0.0	50.0
T4-B414-03-C	JQ33I	1.015	0.0	50.0
T4-B414-04-A	JQ33J	1.065	0.0	50.0
T4-B414-04-B	JQ33K	1.074	0.0	50.0
T4-B414-04-C	JQ33L	1.065	0.0	50.0
T4-S3-01-D	JQ33M	1.065	0.0	50.0
PBS	JQ33MB1	1.000	0.0	50.0
LCSS	JQ33MB1SPK	1.000	0.0	50.0
T4-S3-01-E	JQ33N	1.052	0.0	50.0
T4-S3-01-F	JQ33O	1.033	0.0	50.0
T4-S3-01-G	JQ33P	1.033	0.0	50.0
T4-S3-01-H	JQ33Q	1.074	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 7/31/2006

SDG: JQ33 | RUNID: IP073121 | METHOD: ICP | END DATE: 7/31/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	09545																					X									X
S2	S2	1.00	10011																														
S3	S3	1.00	10052																					X									X
S4	S4	1.00	10105																														
S5	S5	1.00	10153																														
ICV	ICV	1.00	10374																					X									X
ICB	ICB	1.00	10441																					X									X
S0	S0	1.00	10502																					X									X
S0	S0	1.00	11085																					X									X
CCV	CCV1	1.00	11135																					X									X
CCB	CCB1	1.00	11201																					X									X
CRI	CRII	1.00	11263																					X									X
ICSA	ICSAI	1.00	11330																					X									X
ICSAB	ICSABI	1.00	11394																					X									X
CCV	CCV2	1.00	11455																					X									X
CCB	CCB2	1.00	11521																					X									X
ZZZZZZ	DICHECK	1.00	11573																														
ZZZZZZ	JP87MB	1.00	12035																														
ZZZZZZ	JP87I	1.00	12101																														
ZZZZZZ	JP87H	1.00	12164																														
ZZZZZZ	QC7M	1.00	12230																														
ZZZZZZ	SPEX21	1.00	12293																														
ZZZZZZ	JQ68A	5.00	12361																														
ZZZZZZ	JQ68F	2.00	12430																														
ZZZZZZ	JQ66A	2.00	12502																														
ZZZZZZ	JQ53MBSPK	2.00	12573																														
CCV	CCV3	1.00	13035																					X									X
CCB	CCB3	1.00	13102																					X									X
ZZZZZZ	JQ18MB2	1.00	13164																														
ZZZZZZ	JQ18D	1.00	13230																														
ZZZZZZ	JQ18E	1.00	13303																														
ZZZZZZ	JQ18MB2SPK	1.00	13375																														
CCV	CCV4	1.00	13442																					X									X
CCB	CCB4	1.00	13504																					X									X
PBS	JQ33MB1	2.00	13565																					X									X

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 7/31/2006

SDG: JQ33 | RUNID: IP073121 | METHOD: ICP | END DATE: 7/31/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	JQ53MB	2.00	14032																														
ZZZZZZ	JQ53A	2.00	14094																														
ZZZZZZ	JQ53B	2.00	14161																														
ZZZZZZ	JQ53C	2.00	14225																														
ZZZZZZ	JQ53D	2.00	14293																														
T4-B414-01-AD	JQ33ADUP	2.00	14361																					X									X
T4-B414-01-A	JQ33A	2.00	14425																					X									X
T4-B414-01-AS	JQ33ASPK	2.00	14494																					X									X
LCSS	JQ33MB1SPK	2.00	14561																					X									X
CCV	CCV5	1.00	15025																					X									X
CCB	CCB5	1.00	15092																					X									X
PBS	JQ33MB1	2.00	15154																														
ZZZZZZ	JQ53A	5.00	15221																														
ZZZZZZ	JQ53B	5.00	15285																														
ZZZZZZ	JQ53C	5.00	15354																														
ZZZZZZ	JQ53D	5.00	15422																														
ZZZZZZ	JQ18MB2SPK	1.00	15491																														
CCV	CCV6	1.00	15553																					X									X
CCB	CCB6	1.00	16020																					X									X
T4-B414-01-B	JQ33B	2.00	16082																					X									X
T4-B414-01-C	JQ33C	2.00	16145																					X									X
T4-B414-02-A	JQ33D	2.00	16211																					X									X
T4-B414-02-B	JQ33E	2.00	16274																					X									X
T4-B414-02-C	JQ33F	2.00	16340																					X									X
T4-B414-03-A	JQ33G	2.00	16403																					X									X
T4-B414-03-B	JQ33H	2.00	16470																					X									X
T4-B414-03-C	JQ33I	2.00	16532																					X									X
T4-B414-04-A	JQ33J	2.00	16595																					X									X
T4-B414-04-B	JQ33K	2.00	17061																					X									X
CCV	CCV7	1.00	17124																					X									X
CCB	CCB7	1.00	17190																					X									X
T4-B414-04-C	JQ33L	2.00	17252																					X									X
T4-S3-01-D	JQ33M	2.00	17315																					X									X
T4-S3-01-E	JQ33N	2.00	17382																					X									X
T4-S3-01-F	JQ33O	2.00	17445																					X									X

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 7/31/2006

SDG: JQ33 | RUNID: IP073121 | METHOD: ICP | END DATE: 7/31/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
T4-S3-01-G	JQ33P	2.00	17511																					X									X
T4-S3-01-H	JQ33Q	2.00	17574																					X									X
CCV	CCV8	1.00	18043																					X									X
CCB	CCB8	1.00	18105																					X									X

1523

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: T4-B414-01-A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ33A
LIMS ID: 06-12923
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 54.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**26**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**126**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-B
SAMPLE

Lab Sample ID: JQ33B
LIMS ID: 06-12924
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**26**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**128**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-C
SAMPLE

Lab Sample ID: JQ33C
LIMS ID: 06-12925
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**35**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**148**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-A
SAMPLE

Lab Sample ID: JQ33D
LIMS ID: 06-12926
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 50.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**18**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**104**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-B
SAMPLE

Lab Sample ID: JQ33E
LIMS ID: 06-12927
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 52.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**14**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**94**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-C
SAMPLE

Lab Sample ID: JQ33F
LIMS ID: 06-12928
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 52.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**25**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**134**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-03-A
SAMPLE

Lab Sample ID: JQ33G
LIMS ID: 06-12929
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 53.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	**16**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**98**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-03-B
SAMPLE

Lab Sample ID: JQ33H
LIMS ID: 06-12930
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 52.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**19**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**107**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-03-C
SAMPLE

Lab Sample ID: JQ33I
LIMS ID: 06-12931
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 51.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	14	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	92	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-04-A
SAMPLE

Lab Sample ID: JQ33J
LIMS ID: 06-12932
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 49.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**17**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**104**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-04-B
SAMPLE

Lab Sample ID: JQ33K
LIMS ID: 06-12933
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 55.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	**15**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**94**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-04-C
SAMPLE

Lab Sample ID: JQ33L
LIMS ID: 06-12934
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 54.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	**17**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**105**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-D
SAMPLE

Lab Sample ID: JQ33M
LIMS ID: 06-12935
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 52.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	4	**258**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**381**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-E
SAMPLE

Lab Sample ID: JQ33N
LIMS ID: 06-12936
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	**432**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**546**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-F
SAMPLE

Lab Sample ID: JQ33O
LIMS ID: 06-12937
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 59.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	559	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	827	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-G
SAMPLE

Lab Sample ID: JQ33P
LIMS ID: 06-12938
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	455	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	656	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-01-H
SAMPLE

Lab Sample ID: JQ33Q
LIMS ID: 06-12939
Matrix: Sediment
Data Release Authorized:
Reported: 08/01/06

QC Report No: JQ33-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 57.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/27/06	6010B	07/31/06	**7439-92-1**	**Lead**	3	**527**	
3050B	07/27/06	6010B	07/31/06	**7440-66-6**	**Zinc**	1	**609**	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.06 Analysis Date: 7.31.6 Analyst: JB

LR Date: 6.19.06 Page: 1 of 4

All corrections made by analyst unless otherwise noted. 7.31.6 JB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD1			2290-5
		2			2290-11
		3			6 -12
		4			2291-1
		5			↓ -2
		ICV			2285-14
		ICB			
		STD1			
		STD1			Recall calib. & run blank
		CCV1			
		CCB1			
		CRI			
		ICSA			
		ICSAB			
		CCV2			
		CCB2			
		DFCHECK		✓	
		JP87 MB	WMN	✓	PE
		I	↓		↓ Ti, Sn
		H			
		QC7M		✓	
		SPEX21		✓	
		JQ68A	SWC	5	
LABEL		JQ68F	↓	2	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: —

LR Date: —

Analysis Date: 7.31.06

Analyst: JB

Page: 2 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JQ66 A	SWC	2	
		JQ53 MBSpk	↓	↓ ✓	
		CCV3			
		CCB3			
		JQ18 MB2	DMN	✓	
		D			
		E			
	✓	MB2Spk			✓ 0.016 mL 5610000 mg/L; 0.008 mL 1000 mg/L 0.08 mL ICPSpk, Sn / 8 mL
		CCV4			
		CCB4			
		JQ33 MB1	SWC	2	Zn 0.012 mg/L A.N.
		JQ53 MB		✓	
	✓	A			rerun 5x (Fe)
	✓	B			
	✓	C			
	✓	D			
		JQ33 ADUP			
		A			
		ASpk			
		MB1Spk		✓	
		CCV5			
		CCB5			
	✓	JQ33 MB1	SWC	2	0.014 Zn Confirms
		JQ53 A	↓	5	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 7.31.06 Analyst: JB

LR Date: — Page: 3 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JQ53B	SWC	5	
		C	↓	↓	
		D	↓	↓	
		JQ18MBZSPK	DMW		[illegible]
LXRE		CCV6			
↓		CCB6			
		JQ33B	SWC	2	
		C	↓	↓	
		D	↓	↓	
		E	↓	↓	
		F	↓	↓	
		G	↓	↓	
		H	↓	↓	
		I	↓	↓	
		J	↓	↓	
		K	↓	↓	
		CCV7			
		CCB7			
		JQ33L	SWC	2	
		M	↓	↓	
		N	↓	↓	
		O	↓	↓	
		P	↓	↓	
		Q	↓	↓	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: ~ Analysis Date: 7.31.6 Analyst: JLB

LR Date: ~ Page: 4 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCV8			Sn low NPE
		CCB8			end pkg
		2291-8			Zr reglevel - into ccv
		2285-14			
		BLK			

JLB 8.01.06 JLB

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 7.31.6

	Analyst JB 8.1.6	Peer BW 8.1	Comment
Logbook:			
Analyst, Date, Method info	✓	/	
Sample ID's	✓	/	
Standard/QC solution ID's recorded	✓	/	
Prep codes	✓	/	
Dilution factors	✓	/	
Crossouts/Corrections/Deletions	✓	/	
Calibration:			
Blank & Standard intensities	✓	/	
Standard deviations	✓	/	
Curve fit	✓	/	
Calibration Verification:			
ICV/CCV	✓	/	See log
ICB/CCB	✓	/	
Samples:			
RSD's & SD's	✓	/	
Internal Standards	✓	/	
Carry-over	✓	/	
Method QC:			
CRI/CRA	✓	/	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	/	
Matrix Duplicates	✓	/	
Method Blanks	✓	/	JQZ3.A.N.
Data Distribution:			
Requested elements/isotope identified	✓	/	
Correct samples identified for distribution	✓	/	
Raw data match distributed data	✓	/	
Data filename correct	✓	/	
Necessary Analysts Notes and CAF's	✓	/	JQZ3

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

7/31/2006 9:17:54 AM Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): 0.000 Slit adjustment: 0

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	193245.4
-1.6	15.0	270816.8
-1.2	15.0	363916.9
-0.8	15.0	451324.8
-0.4	15.0	515991.8
0.0	15.0	542344.6
0.4	15.0	533031.2
0.8	15.0	467603.0
1.2	15.0	392302.9
1.6	15.0	316619.9
2.0	15.0	240078.0
0.0	10.0	2619.5
0.0	10.5	7443.0
0.0	11.0	19262.3
0.0	11.5	42374.9
0.0	12.0	71823.3
0.0	12.5	157617.2
0.0	13.0	225112.7
0.0	13.5	303054.7
0.0	14.0	384088.2
0.0	14.5	512863.4
0.0	15.0	541166.9
0.0	15.5	532767.6
0.0	16.0	475916.0
0.0	16.5	321278.6
0.0	17.0	243742.1
0.0	17.5	179741.2
0.0	18.0	128410.5
0.0	18.5	82799.3
0.0	19.0	35633.0
0.0	19.5	21213.1
0.0	20.0	11173.0
-0.8	15.0	449882.3
-0.4	15.0	508857.1
0.0	15.0	534752.9
0.4	15.0	519063.2
0.8	15.0	461142.4
0.0	13.0	234792.9
0.0	13.5	296682.6
0.0	14.0	386806.7
0.0	14.5	518709.3
0.0	15.0	552228.9
0.0	15.5	526450.9
0.0	16.0	476394.5
0.0	16.5	320205.2
0.0	17.0	244881.2

7/31/2006 9:23:56 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 552228.9 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 552228.9 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	12425.4
-6.5	15.0	12848.1
-6.0	15.0	13029.2
-5.5	15.0	16343.0
-5.0	15.0	23914.3
-4.5	15.0	36904.8

-4.0	15.0	54907.7
-3.5	15.0	81375.0
-3.0	15.0	113447.1
-2.5	15.0	151567.6
-2.0	15.0	180147.3
-1.5	15.0	214161.4
-1.0	15.0	221875.8
-0.5	15.0	281119.5
0.0	15.0	321981.6
0.5	15.0	271722.4
1.0	15.0	220151.5
1.5	15.0	156985.6
2.0	15.0	105306.1
2.5	15.0	61015.3
3.0	15.0	29399.2
3.5	15.0	9620.7
4.0	15.0	9832.0
4.5	15.0	9561.7
5.0	15.0	7003.0
5.5	15.0	4621.2
6.0	15.0	3036.6
6.5	15.0	1903.2
7.0	15.0	994.2

7/31/2006 9:27:26 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 321981.6 for Radial viewing

==========

==========

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	12348.5
-6.5	15.0	12621.5
-6.0	15.0	13131.3
-5.5	15.0	16088.7
-5.0	15.0	23946.6
-4.5	15.0	36293.4
-4.0	15.0	55263.6
-3.5	15.0	79278.2
-3.0	15.0	112539.4
-2.5	15.0	150811.1
-2.0	15.0	181661.5
-1.5	15.0	212879.6
-1.0	15.0	214329.2
-0.5	15.0	279480.6
0.0	15.0	313075.8
0.5	15.0	269847.8
1.0	15.0	216209.7
1.5	15.0	158673.6
2.0	15.0	106359.0
2.5	15.0	60802.8
3.0	15.0	29326.6
3.5	15.0	9509.3
4.0	15.0	9739.6
4.5	15.0	9497.5
5.0	15.0	6967.1
5.5	15.0	4616.4
6.0	15.0	3037.5
6.5	15.0	1896.4
7.0	15.0	996.7

7/31/2006 9:29:25 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 313075.8 for Radial viewing

==========

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

7/31/2006 9:53:44 AM Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): 0.000 Slit adjustment: 2

Analysis Begun

Start Time: 7/31/2006 9:54:54 AM
Logged In Analyst: metals
Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: ARIIEC5
Method Last Saved: 6/20/2006 9:43:41 AM
IEC File: IEC28.iec
MSF File:
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 7/31/2006 9:54:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1303641.9	3899.58	0.30%	100.0	%
ScR 361.383	150380.5	1823.61	1.21%	100.00	%
Ag 328.068†	524.7	66.46	12.67%	[0.00]	mg/L
Al 308.215†	-193.2	19.08	9.88%	[0.00]	mg/L
As 188.979†	17.5	2.70	15.39%	[0.00]	mg/L
B 249.677†	-6.3	5.90	93.72%	[0.00]	mg/L
Ba 233.527†	24.6	4.51	18.32%	[0.00]	mg/L
Be 313.042†	1273.7	17.43	1.37%	[0.00]	mg/L
Ca 317.933†	27.6	31.28	113.33%	[0.00]	mg/L
Cd 228.802†	100.4	2.14	2.13%	[0.00]	mg/L
Co 228.616†	-4.4	8.23	185.65%	[0.00]	mg/L
Cr 267.716†	24.2	2.84	11.72%	[0.00]	mg/L
Cu 324.752†	3424.7	55.56	1.62%	[0.00]	mg/L
Fe 273.955†	-23.6	2.12	9.00%	[0.00]	mg/L
K 766.490†	1659.3	13.33	0.80%	[0.00]	mg/L
Mg 279.077†	-122.5	1.93	1.57%	[0.00]	mg/L
Mn 257.610†	149.5	3.17	2.12%	[0.00]	mg/L
Mo 202.031†	-26.3	5.52	20.95%	[0.00]	mg/L
Na 589.592†	-528.0	15.25	2.89%	[0.00]	mg/L
Na 330.237†	-89.8	27.04	30.11%	[0.00]	mg/L
Ni 231.604†	-1.4	2.25	155.37%	[0.00]	mg/L
Pb 220.353†	157.1	5.65	3.60%	[0.00]	mg/L
Sb 206.836†	15.5	1.64	10.59%	[0.00]	mg/L
Se 196.026†	-79.8	4.57	5.73%	[0.00]	mg/L
Si 288.158†	-68.7	12.51	18.21%	[0.00]	mg/L
Sn 189.927†	8.4	2.89	34.42%	[0.00]	mg/L
Sr 421.552†	-1197.5	37.73	3.15%	[0.00]	mg/L
Ti 334.903†	-184.6	15.56	8.43%	[0.00]	mg/L
Tl 190.801†	-9.9	2.35	23.60%	[0.00]	mg/L
V 292.402†	-74.5	19.96	26.80%	[0.00]	mg/L
Zn 206.200†	-2.3	0.50	21.82%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/31/2006 10:01:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1312419.4	7365.68	0.56%	100.7	%
ScR 361.383	146044.8	376.11	0.26%	97.12	%
Ba 233.527†	23941.2	77.40	0.32%	[10]	mg/L
Cd 228.802†	246521.7	1161.39	0.47%	[10]	mg/L
Co 228.616†	268009.0	1351.53	0.50%	[10]	mg/L
Cr 267.716†	62199.7	273.69	0.44%	[10]	mg/L
Cu 324.752†	2218246.3	6155.60	0.28%	[10]	mg/L
Mn 257.610†	232138.9	912.72	0.39%	[10]	mg/L
V 292.402†	2136048.2	6317.36	0.30%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/31/2006 10:05:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1299801.7	7746.67	0.60%	99.71	%
ScR 361.383	151771.3	918.13	0.60%	100.9	%
Ag 328.068†	246522.1	329.55	0.13%	[1.0]	mg/L
As 188.979†	6944.5	54.45	0.78%	[10]	mg/L
B 249.677†	27480.0	179.96	0.65%	[10]	mg/L
Be 313.042†	2628162.8	5248.47	0.20%	[5.0]	mg/L
Na 589.592†	266879.6	889.66	0.33%	[50]	mg/L
Ni 231.604†	15121.6	100.20	0.66%	[10]	mg/L
Pb 220.353†	66538.2	194.07	0.29%	[10]	mg/L
Se 196.026†	9560.4	84.35	0.88%	[10]	mg/L
Sr 421.552†	2870610.3	6350.93	0.22%	[5]	mg/L
Tl 190.801†	8620.4	86.11	1.00%	[10]	mg/L
Zn 206.200†	7335.8	36.82	0.50%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 7/31/2006 10:10:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1314386.6	8045.49	0.61%	100.8	%
ScR 361.383	151887.9	660.69	0.43%	101.0	%
Mo 202.031†	81318.0	291.63	0.36%	[10]	mg/L
Sb 206.836†	8690.7	52.19	0.60%	[10]	mg/L
Si 288.158†	11966.6	74.34	0.62%	[10]	mg/L
Sn 189.927†	31948.8	127.42	0.40%	[10]	mg/L
Ti 334.903†	208317.4	383.43	0.18%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/31/2006 10:15:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1262958.8	3286.81	0.26%	96.88	%
ScR 361.383	149019.5	903.03	0.61%	99.10	%
Al 308.215†	35199.2	111.88	0.32%	[30]	mg/L
Ca 317.933†	451403.5	300.97	0.07%	[30]	mg/L
Fe 273.955†	82218.9	527.05	0.64%	[100]	mg/L
K 766.490†	104942.8	220.14	0.21%	[100]	mg/L
Mg 279.077†	33056.6	113.43	0.34%	[30]	mg/L
Na 330.237†	2629.2	29.95	1.14%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	246500	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1173	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	694.5	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2748	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	2394	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	525600	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	15050	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	24650	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	26800	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	6220	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	221800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	822.2	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1049	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1102	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	23210	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	8132	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	5338	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	26.29	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1512	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6654	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	869.1	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	956.0	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1197	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3195	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	574100	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	20830	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	862.0	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	213600	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	733.6	0.00000	1.000000	

Analysis Begun

Start Time: 7/31/2006 10:37:45 AM
Plasma On Time: 7/31/2006 8:39:17 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 7/31/2006 10:37:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1285680.1	98.62	%	0.391				0.40%
ScR 361.383	152715.2	101.6	%	0.19				0.19%
Ag 328.068†	242029.0	0.9819	mg/L	0.00472	0.9819	mg/L	0.00472	0.48%
Al 308.215†	2348.3	1.965	mg/L	0.0105	1.965	mg/L	0.0105	0.53%
As 188.979†	1388.2	1.994	mg/L	0.0027	1.994	mg/L	0.0027	0.14%
B 249.677†	2668.3	0.9744	mg/L	0.00625	0.9744	mg/L	0.00625	0.64%
Ba 233.527†	2410.5	1.006	mg/L	0.0039	1.006	mg/L	0.0039	0.39%
Be 313.042†	514984.0	0.9782	mg/L	0.00128	0.9782	mg/L	0.00128	0.13%
Ca 317.933†	30368.6	2.018	mg/L	0.0040	2.018	mg/L	0.0040	0.20%
Cd 228.802†	25387.5	1.027	mg/L	0.0028	1.027	mg/L	0.0028	0.27%
Co 228.616†	26518.8	0.9878	mg/L	0.00261	0.9878	mg/L	0.00261	0.26%
Cr 267.716†	6073.8	0.9754	mg/L	0.00496	0.9754	mg/L	0.00496	0.51%
Cu 324.752†	226432.0	1.020	mg/L	0.0047	1.020	mg/L	0.0047	0.46%
Fe 273.955†	1663.4	2.021	mg/L	0.0083	2.021	mg/L	0.0083	0.41%
K 766.490†	21001.6	20.01	mg/L	0.084	20.01	mg/L	0.084	0.42%
Mg 279.077†	2221.9	2.020	mg/L	0.0038	2.020	mg/L	0.0038	0.19%
Mn 257.610†	22974.2	0.9901	mg/L	0.00176	0.9901	mg/L	0.00176	0.18%
Mo 202.031†	8017.1	0.9859	mg/L	0.00307	0.9859	mg/L	0.00307	0.31%
Na 589.592†	262425.3	49.17	mg/L	0.083	49.17	mg/L	0.083	0.17%
Na 330.237†	1319.7	50.17	mg/L	0.165	50.17	mg/L	0.165	0.33%
Ni 231.604†	1486.1	0.9840	mg/L	0.00133	0.9840	mg/L	0.00133	0.13%
Pb 220.353†	13081.6	1.968	mg/L	0.0145	1.968	mg/L	0.0145	0.73%
Sb 206.836†	1827.5	2.103	mg/L	0.0122	2.103	mg/L	0.0122	0.58%
Se 196.026†	1903.8	1.990	mg/L	0.0085	1.990	mg/L	0.0085	0.43%
Si 288.158†	2511.0	2.100	mg/L	0.0112	2.100	mg/L	0.0112	0.53%
Sn 189.927†	2995.0	0.9415	mg/L	0.00127	0.9415	mg/L	0.00127	0.14%
Sr 421.552†	564272.7	0.9828	mg/L	0.00204	0.9828	mg/L	0.00204	0.21%
Ti 334.903†	20794.6	0.9970	mg/L	0.00277	0.9970	mg/L	0.00277	0.28%
Tl 190.801†	1692.0	1.959	mg/L	0.0088	1.959	mg/L	0.0088	0.45%
V 292.402†	211587.5	0.9979	mg/L	0.00473	0.9979	mg/L	0.00473	0.47%
Zn 206.200†	738.0	1.005	mg/L	0.0092	1.005	mg/L	0.0092	0.91%

Sequence No.: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 10:44:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1312649.4	100.7	%	0.44				0.44%
ScR 361.383	149882.3	99.67	%	0.339				0.34%
Ag 328.068†	87.6	0.00036	mg/L	0.000108	0.00036	mg/L	0.000108	30.35%
Al 308.215†	-12.6	-0.01076	mg/L	0.012577	-0.01076	mg/L	0.012577	116.89%
As 188.979†	2.7	0.00386	mg/L	0.002939	0.00386	mg/L	0.002939	76.19%
B 249.677†	28.8	0.01049	mg/L	0.001603	0.01049	mg/L	0.001603	15.29%
Ba 233.527†	4.2	0.00176	mg/L	0.000661	0.00176	mg/L	0.000661	37.59%
Be 313.042†	-12.4	-0.00002	mg/L	0.000023	-0.00002	mg/L	0.000023	97.06%
Ca 317.933†	16.4	0.00109	mg/L	0.000568	0.00109	mg/L	0.000568	52.08%
Cd 228.802†	1.9	0.00007	mg/L	0.000181	0.00007	mg/L	0.000181	252.44%
Co 228.616†	2.2	0.00008	mg/L	0.000233	0.00008	mg/L	0.000233	283.75%
Cr 267.716†	2.9	0.00047	mg/L	0.000381	0.00047	mg/L	0.000381	81.52%
Cu 324.752†	24.6	0.00011	mg/L	0.000115	0.00011	mg/L	0.000115	103.50%
Fe 273.955†	1.8	0.00221	mg/L	0.003933	0.00221	mg/L	0.003933	178.34%
K 766.490†	16.2	0.01544	mg/L	0.016614	0.01544	mg/L	0.016614	107.62%
Mg 279.077†	5.9	0.00533	mg/L	0.002632	0.00533	mg/L	0.002632	49.34%
Mn 257.610†	5.6	0.00024	mg/L	0.000132	0.00024	mg/L	0.000132	54.26%
Mo 202.031†	5.8	0.00071	mg/L	0.000140	0.00071	mg/L	0.000140	19.58%
Na 589.592†	50.1	0.00939	mg/L	0.009531	0.00939	mg/L	0.009531	101.56%
Na 330.237†	-2.1	-0.08007	mg/L	0.276222	-0.08007	mg/L	0.276222	344.97%
Ni 231.604†	-1.1	-0.00073	mg/L	0.002102	-0.00073	mg/L	0.002102	286.55%
Pb 220.353†	9.0	0.00135	mg/L	0.000925	0.00135	mg/L	0.000925	68.57%
Sb 206.836†	-1.2	-0.00141	mg/L	0.002584	-0.00141	mg/L	0.002584	182.94%
Se 196.026†	9.1	0.00954	mg/L	0.004607	0.00954	mg/L	0.004607	48.29%
Si 288.158†	6.5	0.00546	mg/L	0.007055	0.00546	mg/L	0.007055	129.23%
Sn 189.927†	5.9	0.00185	mg/L	0.000585	0.00185	mg/L	0.000585	31.60%
Sr 421.552†	40.1	0.00007	mg/L	0.000113	0.00007	mg/L	0.000113	162.29%
Ti 334.903†	-11.5	-0.00055	mg/L	0.000661	-0.00055	mg/L	0.000661	119.52%
Tl 190.801†	4.2	0.00490	mg/L	0.003007	0.00490	mg/L	0.003007	61.31%
V 292.402†	55.1	0.00026	mg/L	0.000136	0.00026	mg/L	0.000136	51.87%
Zn 206.200†	2.9	0.00394	mg/L	0.001187	0.00394	mg/L	0.001187	30.17%

Analysis Begun

Start Time: 7/31/2006 10:50:27 AM
Plasma On Time: 7/31/2006 8:39:17 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 7/31/2006 10:50:27 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1313576.2	4999.24	0.38%	100.8	%
ScR 361.383	151789.5	1240.74	0.82%	100.9	%
Ag 328.068†	605.1	23.90	3.95%	[0.00]	mg/L
Al 308.215†	-193.3	7.67	3.97%	[0.00]	mg/L
As 188.979†	21.8	3.68	16.91%	[0.00]	mg/L
B 249.677†	3.0	3.30	111.29%	[0.00]	mg/L
Ba 233.527†	24.5	0.21	0.86%	[0.00]	mg/L
Be 313.042†	1265.5	5.85	0.46%	[0.00]	mg/L
Ca 317.933†	47.7	11.20	23.47%	[0.00]	mg/L
Cd 228.802†	102.2	2.98	2.92%	[0.00]	mg/L
Co 228.616†	4.4	5.31	119.78%	[0.00]	mg/L
Cr 267.716†	25.0	1.57	6.31%	[0.00]	mg/L
Cu 324.752†	3406.1	40.42	1.19%	[0.00]	mg/L
Fe 273.955†	-22.6	0.52	2.28%	[0.00]	mg/L
K 766.490†	1657.8	43.52	2.63%	[0.00]	mg/L
Mg 279.077†	-117.5	9.18	7.81%	[0.00]	mg/L
Mn 257.610†	155.3	2.27	1.46%	[0.00]	mg/L
Mo 202.031†	-25.7	1.60	6.22%	[0.00]	mg/L
Na 589.592†	-496.5	19.81	3.99%	[0.00]	mg/L
Na 330.237†	-94.8	18.02	19.02%	[0.00]	mg/L
Ni 231.604†	-5.3	1.44	27.15%	[0.00]	mg/L
Pb 220.353†	163.5	1.05	0.64%	[0.00]	mg/L
Sb 206.836†	13.1	1.13	8.63%	[0.00]	mg/L
Se 196.026†	-76.1	2.76	3.62%	[0.00]	mg/L
Si 288.158†	-62.9	5.57	8.86%	[0.00]	mg/L
Sn 189.927†	15.7	2.37	15.11%	[0.00]	mg/L
Sr 421.552†	-1126.5	23.73	2.11%	[0.00]	mg/L
Ti 334.903†	-183.5	17.12	9.33%	[0.00]	mg/L
Tl 190.801†	-8.5	0.82	9.66%	[0.00]	mg/L
V 292.402†	-33.8	42.37	125.16%	[0.00]	mg/L
Zn 206.200†	-0.8	1.62	212.38%	[0.00]	mg/L

==========

Analysis Begun

Start Time: 7/31/2006 10:54:51 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101

Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

7.31 data
Lost calibration

==========

Sequence No.: 1
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X
User canceled analysis.

Autosampler Location: 7
Date Collected: 7/31/2006 10:54:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

==========

Analysis Begun

Start Time: 7/31/2006 11:00:26 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101

Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Method Loaded
Method Name: ARIIEC5
IEC File: IEC28.iec
Method Description: 12Axial Elements

Method Last Saved: 6/20/2006 9:43:41 AM
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

==========

Analysis Begun

Start Time: 7/31/2006 11:04:58 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 8
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.
Autosampler Location:
Date Collected: 7/31/2006 11:04:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

==========

Analysis Begun

Start Time: 7/31/2006 11:08:25 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 9
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.
Autosampler Location:
Date Collected: 7/31/2006 11:08:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

==========

Sequence No.: 10
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location:
Date Collected: 7/31/2006 11:08:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1323116.9	6712.88	0.51%	101.5	%
ScR 361.383	148922.2	1084.77	0.73%	99.03	%
Ag 328.068†	584.1	8.90	1.52%	[0.00]	mg/L
Al 308.215†	-199.2	8.23	4.13%	[0.00]	mg/L
As 188.979†	18.5	2.39	12.88%	[0.00]	mg/L
B 249.677†	5.5	4.91	89.64%	[0.00]	mg/L
Ba 233.527†	23.4	0.62	2.65%	[0.00]	mg/L
Be 313.042†	1267.7	36.39	2.87%	[0.00]	mg/L
Ca 317.933†	53.4	10.01	18.73%	[0.00]	mg/L
Cd 228.802†	96.8	1.03	1.06%	[0.00]	mg/L
Co 228.616†	-0.8	6.95	914.13%	[0.00]	mg/L
Cr 267.716†	25.1	3.94	15.71%	[0.00]	mg/L
Cu 324.752†	3422.2	10.96	0.32%	[0.00]	mg/L
Fe 273.955†	-19.9	2.52	12.65%	[0.00]	mg/L
K 766.490†	1678.4	51.86	3.09%	[0.00]	mg/L

Mg 279.077†	-116.3	5.79	4.98%	[0.00] mg/L
Mn 257.610†	153.1	2.12	1.39%	[0.00] mg/L
Mo 202.031†	-23.5	3.25	13.82%	[0.00] mg/L
Na 589.592†	-516.5	12.25	2.37%	[0.00] mg/L
Na 330.237†	-104.1	6.82	6.55%	[0.00] mg/L
Ni 231.604†	-2.1	1.15	53.93%	[0.00] mg/L
Pb 220.353†	159.7	6.71	4.20%	[0.00] mg/L
Sb 206.836†	12.3	2.59	21.04%	[0.00] mg/L
Se 196.026†	-73.9	4.01	5.43%	[0.00] mg/L
Si 288.158†	-76.1	2.12	2.78%	[0.00] mg/L
Sn 189.927†	11.8	3.34	28.26%	[0.00] mg/L
Sr 421.552†	-1171.7	53.96	4.60%	[0.00] mg/L
Ti 334.903†	-162.0	1.93	1.19%	[0.00] mg/L
Tl 190.801†	-5.5	2.08	37.77%	[0.00] mg/L
V 292.402†	-45.0	8.85	19.66%	[0.00] mg/L
Zn 206.200†	-0.1	0.51	572.78%	[0.00] mg/L

Analysis Begun

Start Time: 7/31/2006 11:13:52 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: CV1 7.31.06
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 11:13:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1302284.9	99.90	%	0.313				0.31%
ScR 361.383	151923.0	101.0	%	0.05				0.05%
Ag 328.068†	239815.5	0.9729	mg/L	0.00813	0.9729	mg/L	0.00813	0.84%
Al 308.215†	2309.9	1.932	mg/L	0.0103	1.932	mg/L	0.0103	0.53%
As 188.979†	1367.0	1.964	mg/L	0.0105	1.964	mg/L	0.0105	0.54%
B 249.677†	2601.0	0.9499	mg/L	0.00914	0.9499	mg/L	0.00914	0.96%
Ba 233.527†	2342.9	0.9781	mg/L	0.00294	0.9781	mg/L	0.00294	0.30%
Be 313.042†	507144.3	0.9633	mg/L	0.00109	0.9633	mg/L	0.00109	0.11%
Ca 317.933†	30099.0	2.000	mg/L	0.0059	2.000	mg/L	0.0059	0.30%
Cd 228.802†	25176.9	1.018	mg/L	0.0109	1.018	mg/L	0.0109	1.07%
Co 228.616†	26208.1	0.9763	mg/L	0.01204	0.9763	mg/L	0.01204	1.23%
Cr 267.716†	5961.9	0.9575	mg/L	0.00477	0.9575	mg/L	0.00477	0.50%
Cu 324.752†	225027.0	1.014	mg/L	0.0089	1.014	mg/L	0.0089	0.88%
Fe 273.955†	1631.5	1.982	mg/L	0.0085	1.982	mg/L	0.0085	0.43%
K 766.490†	21266.8	20.27	mg/L	0.060	20.27	mg/L	0.060	0.30%
Mg 279.077†	2170.7	1.974	mg/L	0.0049	1.974	mg/L	0.0049	0.25%
Mn 257.610†	22574.9	0.9729	mg/L	0.00149	0.9729	mg/L	0.00149	0.15%
Mo 202.031†	7984.5	0.9819	mg/L	0.00170	0.9819	mg/L	0.00170	0.17%
Na 589.592†	262676.0	49.21	mg/L	0.058	49.21	mg/L	0.058	0.12%
Na 330.237†	1312.5	49.91	mg/L	0.160	49.91	mg/L	0.160	0.32%
Ni 231.604†	1445.4	0.9570	mg/L	0.00302	0.9570	mg/L	0.00302	0.32%
Pb 220.353†	13106.6	1.972	mg/L	0.0217	1.972	mg/L	0.0217	1.10%
Sb 206.836†	1816.0	2.090	mg/L	0.0083	2.090	mg/L	0.0083	0.40%
Se 196.026†	1881.6	1.967	mg/L	0.0070	1.967	mg/L	0.0070	0.36%
Si 288.158†	2488.1	2.081	mg/L	0.0061	2.081	mg/L	0.0061	0.29%
Sn 189.927†	2967.8	0.9330	mg/L	0.00392	0.9330	mg/L	0.00392	0.42%
Sr 421.552†	563338.9	0.9812	mg/L	0.00116	0.9812	mg/L	0.00116	0.12%
Ti 334.903†	20627.1	0.9890	mg/L	0.00138	0.9890	mg/L	0.00138	0.14%
Tl 190.801†	1665.1	1.928	mg/L	0.0071	1.928	mg/L	0.0071	0.37%
V 292.402†	209894.6	0.9898	mg/L	0.00843	0.9898	mg/L	0.00843	0.85%
Zn 206.200†	711.0	0.9685	mg/L	0.00078	0.9685	mg/L	0.00078	0.08%

Sequence No.: 2
Sample ID: CB1 7.31.06 JW3
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 11:20:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1329910.1	102.0	%	0.06				0.06%
ScR 361.383	151748.7	100.9	%	0.76				0.76%
Ag 328.068†	-26.4	-0.00011	mg/L	0.000287	-0.00011	mg/L	0.000287	268.05%
Al 308.215†	6.1	0.00516	mg/L	0.018413	0.00516	mg/L	0.018413	356.83%
As 188.979†	0.7	0.00099	mg/L	0.002722	0.00099	mg/L	0.002722	275.14%
B 249.677†	10.7	0.00389	mg/L	0.001455	0.00389	mg/L	0.001455	37.37%
Ba 233.527†	0.8	0.00034	mg/L	0.001732	0.00034	mg/L	0.001732	504.06%
Be 313.042†	-10.0	-0.00002	mg/L	0.000065	-0.00002	mg/L	0.000065	343.59%
Ca 317.933†	-9.6	-0.00064	mg/L	0.000340	-0.00064	mg/L	0.000340	53.15%
Cd 228.802†	5.8	0.00023	mg/L	0.000072	0.00023	mg/L	0.000072	30.66%
Co 228.616†	-1.7	-0.00006	mg/L	0.000239	-0.00006	mg/L	0.000239	398.77%
Cr 267.716†	5.3	0.00085	mg/L	0.000618	0.00085	mg/L	0.000618	72.59%
Cu 324.752†	-55.1	-0.00025	mg/L	0.000068	-0.00025	mg/L	0.000068	27.38%
Fe 273.955†	-0.5	-0.00059	mg/L	0.004290	-0.00059	mg/L	0.004290	725.50%
K 766.490†	-17.7	-0.01691	mg/L	0.024688	-0.01691	mg/L	0.024688	146.03%
Mg 279.077†	1.6	0.00145	mg/L	0.001780	0.00145	mg/L	0.001780	123.16%
Mn 257.610†	-0.2	-0.00001	mg/L	0.000299	-0.00001	mg/L	0.000299	>999.9%
Mo 202.031†	0.3	0.00003	mg/L	0.000455	0.00003	mg/L	0.000455	>999.9%
Na 589.592†	75.1	0.01407	mg/L	0.004938	0.01407	mg/L	0.004938	35.11%
Na 330.237†	10.6	0.4031	mg/L	0.05833	0.4031	mg/L	0.05833	14.47%
Ni 231.604†	-1.7	-0.00113	mg/L	0.002521	-0.00113	mg/L	0.002521	223.26%
Pb 220.353†	0.4	0.00007	mg/L	0.000186	0.00007	mg/L	0.000186	276.83%
Sb 206.836†	4.6	0.00533	mg/L	0.002738	0.00533	mg/L	0.002738	51.33%
Se 196.026†	3.0	0.00309	mg/L	0.008253	0.00309	mg/L	0.008253	267.23%
Si 288.158†	10.6	0.00888	mg/L	0.002565	0.00888	mg/L	0.002565	28.90%
Sn 189.927†	6.1	0.00191	mg/L	0.000470	0.00191	mg/L	0.000470	24.55%
Sr 421.552†	45.8	0.00008	mg/L	0.000042	0.00008	mg/L	0.000042	52.54%
Ti 334.903†	-25.8	-0.00124	mg/L	0.000412	-0.00124	mg/L	0.000412	33.20%
Tl 190.801†	-2.2	-0.00251	mg/L	0.003593	-0.00251	mg/L	0.003593	143.39%
V 292.402†	-4.4	-0.00001	mg/L	0.000104	-0.00001	mg/L	0.000104	747.66%
Zn 206.200†	2.0	0.00271	mg/L	0.002151	0.00271	mg/L	0.002151	79.25%

Sequence No.: 3
Sample ID: CRI
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 8
Date Collected: 7/31/2006 11:26:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1337739.1	102.6	%	0.30				0.29%
ScR 361.383	150479.0	100.1	%	0.33				0.33%
Ag 328.068†	670.3	0.00272	mg/L	0.000051	0.00272	mg/L	0.000051	1.88%
Al 308.215†	55.3	0.04701	mg/L	0.014014	0.04701	mg/L	0.014014	29.81%
As 188.979†	35.2	0.05064	mg/L	0.001051	0.05064	mg/L	0.001051	2.08%
B 249.677†	46.6	0.01697	mg/L	0.001560	0.01697	mg/L	0.001560	9.19%
Ba 233.527†	9.2	0.00384	mg/L	0.002088	0.00384	mg/L	0.002088	54.32%
Be 313.042†	515.7	0.00098	mg/L	0.000025	0.00098	mg/L	0.000025	2.55%
Ca 317.933†	826.6	0.05493	mg/L	0.001871	0.05493	mg/L	0.001871	3.41%
Cd 228.802†	50.1	0.00196	mg/L	0.000141	0.00196	mg/L	0.000141	7.20%
Co 228.616†	81.2	0.00302	mg/L	0.000130	0.00302	mg/L	0.000130	4.31%
Cr 267.716†	29.6	0.00475	mg/L	0.000494	0.00475	mg/L	0.000494	10.40%
Cu 324.752†	388.0	0.00175	mg/L	0.000188	0.00175	mg/L	0.000188	10.75%
Fe 273.955†	41.6	0.05063	mg/L	0.006136	0.05063	mg/L	0.006136	12.12%
K 766.490†	509.9	0.4859	mg/L	0.02010	0.4859	mg/L	0.02010	4.14%
Mg 279.077†	61.0	0.05536	mg/L	0.003165	0.05536	mg/L	0.003165	5.72%
Mn 257.610†	22.5	0.00097	mg/L	0.000050	0.00097	mg/L	0.000050	5.19%
Mo 202.031†	39.6	0.00488	mg/L	0.000275	0.00488	mg/L	0.000275	5.63%
Na 589.592†	2850.1	0.5340	mg/L	0.00662	0.5340	mg/L	0.00662	1.24%
Na 330.237†	18.9	0.7161	mg/L	0.39902	0.7161	mg/L	0.39902	55.72%
Ni 231.604†	14.4	0.00956	mg/L	0.003086	0.00956	mg/L	0.003086	32.28%
Pb 220.353†	126.5	0.01903	mg/L	0.000528	0.01903	mg/L	0.000528	2.78%
Sb 206.836†	48.5	0.05586	mg/L	0.004439	0.05586	mg/L	0.004439	7.95%
Se 196.026†	48.1	0.05030	mg/L	0.004029	0.05030	mg/L	0.004029	8.01%
Si 288.158†	81.1	0.06774	mg/L	0.006541	0.06774	mg/L	0.006541	9.66%
Sn 189.927†	33.9	0.01071	mg/L	0.000213	0.01071	mg/L	0.000213	1.99%
Sr 421.552†	668.7	0.00116	mg/L	0.000035	0.00116	mg/L	0.000035	3.00%
Ti 334.903†	86.4	0.00414	mg/L	0.000601	0.00414	mg/L	0.000601	14.50%
Tl 190.801†	39.2	0.04551	mg/L	0.002897	0.04551	mg/L	0.002897	6.37%
V 292.402†	614.1	0.00291	mg/L	0.000185	0.00291	mg/L	0.000185	6.36%
Zn 206.200†	4.8	0.00659	mg/L	0.003281	0.00659	mg/L	0.003281	49.75%

Sequence No.: 4
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 9
Date Collected: 7/31/2006 11:33:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1262918.7	96.88	%	0.438				0.45%
ScR 361.383	150588.6	100.1	%	0.14				0.14%
Ag 328.068†	-2314.6	-0.00116	mg/L	0.000194	-0.00116	mg/L	0.000194	16.70%
Al 308.215†	233015.0	198.6	mg/L	0.10	198.6	mg/L	0.10	0.05%
As 188.979†	29.4	0.01901	mg/L	0.004432	0.01901	mg/L	0.004432	23.31%
B 249.677†	0.8	0.00029	mg/L	0.004545	0.00029	mg/L	0.004545	>999.9%
Ba 233.527†	39.8	0.00238	mg/L	0.001458	0.00238	mg/L	0.001458	61.38%
Be 313.042†	34.5	0.00006	mg/L	0.000026	0.00006	mg/L	0.000026	42.09%
Ca 317.933†	1471653.8	97.81	mg/L	0.177	97.81	mg/L	0.177	0.18%
Cd 228.802†	32.6	-0.00073	mg/L	0.000091	-0.00073	mg/L	0.000091	12.36%
Co 228.616†	-16.4	-0.00188	mg/L	0.000385	-0.00188	mg/L	0.000385	20.48%
Cr 267.716†	2.8	0.00182	mg/L	0.001505	0.00182	mg/L	0.001505	82.49%
Cu 324.752†	-3519.1	0.00203	mg/L	0.000129	0.00203	mg/L	0.000129	6.37%
Fe 273.955†	162779.5	198.0	mg/L	0.27	198.0	mg/L	0.27	0.14%
K 766.490†	59.1	0.05627	mg/L	0.017033	0.05627	mg/L	0.017033	30.27%
Mg 279.077†	109731.8	99.44	mg/L	0.208	99.44	mg/L	0.208	0.21%
Mn 257.610†	92.1	0.00029	mg/L	0.000587	0.00029	mg/L	0.000587	201.61%
Mo 202.031†	28.1	0.00550	mg/L	0.000269	0.00550	mg/L	0.000269	4.89%
Na 589.592†	189.0	0.03541	mg/L	0.003248	0.03541	mg/L	0.003248	9.17%
Na 330.237†	21.8	-0.04656	mg/L	0.620696	-0.04656	mg/L	0.620696	>999.9%
Ni 231.604†	-5.7	-0.00372	mg/L	0.001820	-0.00372	mg/L	0.001820	48.97%
Pb 220.353†	-129.6	0.01877	mg/L	0.001028	0.01877	mg/L	0.001028	5.48%
Sb 206.836†	29.1	0.03321	mg/L	0.002453	0.03321	mg/L	0.002453	7.39%
Se 196.026†	-78.6	-0.08218	mg/L	0.005769	-0.08218	mg/L	0.005769	7.02%
Si 288.158†	-23.8	-0.01986	mg/L	0.002677	-0.01986	mg/L	0.002677	13.48%
Sn 189.927†	-75.3	-0.00885	mg/L	0.000248	-0.00885	mg/L	0.000248	2.81%
Sr 421.552†	751.3	0.00131	mg/L	0.000126	0.00131	mg/L	0.000126	9.64%
Ti 334.903†	87.1	0.00418	mg/L	0.001172	0.00418	mg/L	0.001172	28.08%
Tl 190.801†	-36.3	-0.04208	mg/L	0.004359	-0.04208	mg/L	0.004359	10.36%
V 292.402†	606.9	0.00285	mg/L	0.000134	0.00285	mg/L	0.000134	4.71%
Zn 206.200†	-0.4	-0.00462	mg/L	0.002172	-0.00462	mg/L	0.002172	46.98%

Sequence No.: 5
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 10
Date Collected: 7/31/2006 11:39:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1267861.0	97.26	%	0.014				0.01%
ScR 361.383	150339.9	99.97	%	0.252				0.25%
Ag 328.068†	240205.6	0.9826	mg/L	0.00037	0.9826	mg/L	0.00037	0.04%
Al 308.215†	227544.0	193.9	mg/L	0.16	193.9	mg/L	0.16	0.08%
As 188.979†	714.5	1.005	mg/L	0.0042	1.005	mg/L	0.0042	0.42%
B 249.677†	-28.7	-0.00869	mg/L	0.003240	-0.00869	mg/L	0.003240	37.29%
Ba 233.527†	2379.2	0.9795	mg/L	0.00604	0.9795	mg/L	0.00604	0.62%
Be 313.042†	513069.4	0.9745	mg/L	0.00110	0.9745	mg/L	0.00110	0.11%
Ca 317.933†	1436524.6	95.47	mg/L	0.063	95.47	mg/L	0.063	0.07%
Cd 228.802†	24846.4	1.004	mg/L	0.0021	1.004	mg/L	0.0021	0.20%
Co 228.616†	24863.3	0.9262	mg/L	0.00220	0.9262	mg/L	0.00220	0.24%
Cr 267.716†	5893.6	0.9482	mg/L	0.00538	0.9482	mg/L	0.00538	0.57%
Cu 324.752†	228444.2	1.047	mg/L	0.0008	1.047	mg/L	0.0008	0.08%
Fe 273.955†	158586.3	192.9	mg/L	1.03	192.9	mg/L	1.03	0.53%
K 766.490†	105.6	0.1006	mg/L	0.01843	0.1006	mg/L	0.01843	18.32%
Mg 279.077†	106972.3	96.94	mg/L	0.201	96.94	mg/L	0.201	0.21%
Mn 257.610†	22109.0	0.9490	mg/L	0.00151	0.9490	mg/L	0.00151	0.16%
Mo 202.031†	28.7	0.00553	mg/L	0.000222	0.00553	mg/L	0.000222	4.02%
Na 589.592†	134.5	0.02519	mg/L	0.003795	0.02519	mg/L	0.003795	15.07%
Na 330.237†	10.1	-0.6951	mg/L	0.28529	-0.6951	mg/L	0.28529	41.04%
Ni 231.604†	1376.6	0.9109	mg/L	0.00379	0.9109	mg/L	0.00379	0.42%
Pb 220.353†	6042.6	0.9467	mg/L	0.00201	0.9467	mg/L	0.00201	0.21%
Sb 206.836†	934.7	1.064	mg/L	0.0011	1.064	mg/L	0.0011	0.11%
Se 196.026†	851.7	0.8898	mg/L	0.00203	0.8898	mg/L	0.00203	0.23%
Si 288.158†	-32.4	-0.02509	mg/L	0.003893	-0.02509	mg/L	0.003893	15.52%
Sn 189.927†	-83.1	-0.00968	mg/L	0.001102	-0.00968	mg/L	0.001102	11.38%
Sr 421.552†	827.7	0.00144	mg/L	0.000092	0.00144	mg/L	0.000092	6.39%
Ti 334.903†	210.0	0.00988	mg/L	0.000724	0.00988	mg/L	0.000724	7.33%
Tl 190.801†	761.8	0.8779	mg/L	0.00977	0.8779	mg/L	0.00977	1.11%
V 292.402†	214889.4	1.013	mg/L	0.0012	1.013	mg/L	0.0012	0.12%
Zn 206.200†	662.8	0.8991	mg/L	0.00940	0.8991	mg/L	0.00940	1.05%

Sequence No.: 6
Sample ID: CV L2 7.31.6
Analyst: JHB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 11:45:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1313343.3	100.7	%	0.22				0.22%
ScR 361.383	151970.4	101.1	%	0.16				0.16%
Ag 328.068†	236806.2	0.9607	mg/L	0.00254	0.9607	mg/L	0.00254	0.26%
Al 308.215†	2330.1	1.950	mg/L	0.0109	1.950	mg/L	0.0109	0.56%
As 188.979†	1349.1	1.938	mg/L	0.0165	1.938	mg/L	0.0165	0.85%
B 249.677†	2597.6	0.9486	mg/L	0.00640	0.9486	mg/L	0.00640	0.67%
Ba 233.527†	2337.4	0.9758	mg/L	0.00429	0.9758	mg/L	0.00429	0.44%
Be 313.042†	504144.8	0.9576	mg/L	0.00245	0.9576	mg/L	0.00245	0.26%
Ca 317.933†	29954.6	1.991	mg/L	0.0042	1.991	mg/L	0.0042	0.21%
Cd 228.802†	24901.8	1.007	mg/L	0.0046	1.007	mg/L	0.0046	0.46%
Co 228.616†	25863.2	0.9634	mg/L	0.00342	0.9634	mg/L	0.00342	0.36%
Cr 267.716†	5947.9	0.9552	mg/L	0.00283	0.9552	mg/L	0.00283	0.30%
Cu 324.752†	222314.9	1.002	mg/L	0.0035	1.002	mg/L	0.0035	0.35%
Fe 273.955†	1637.4	1.989	mg/L	0.0053	1.989	mg/L	0.0053	0.27%
K 766.490†	20991.6	20.00	mg/L	0.107	20.00	mg/L	0.107	0.54%
Mg 279.077†	2171.3	1.974	mg/L	0.0147	1.974	mg/L	0.0147	0.74%
Mn 257.610†	22461.1	0.9680	mg/L	0.00285	0.9680	mg/L	0.00285	0.29%
Mo 202.031†	7872.7	0.9681	mg/L	0.00523	0.9681	mg/L	0.00523	0.54%
Na 589.592†	261099.4	48.92	mg/L	0.206	48.92	mg/L	0.206	0.42%
Na 330.237†	1321.8	50.26	mg/L	0.542	50.26	mg/L	0.542	1.08%
Ni 231.604†	1442.3	0.9550	mg/L	0.00426	0.9550	mg/L	0.00426	0.45%
Pb 220.353†	12913.9	1.943	mg/L	0.0126	1.943	mg/L	0.0126	0.65%
Sb 206.836†	1795.6	2.066	mg/L	0.0057	2.066	mg/L	0.0057	0.28%
Se 196.026†	1845.3	1.929	mg/L	0.0104	1.929	mg/L	0.0104	0.54%
Si 288.158†	2481.8	2.076	mg/L	0.0076	2.076	mg/L	0.0076	0.36%
Sn 189.927†	2925.0	0.9195	mg/L	0.00308	0.9195	mg/L	0.00308	0.33%
Sr 421.552†	559789.5	0.9750	mg/L	0.00237	0.9750	mg/L	0.00237	0.24%
Ti 334.903†	20520.0	0.9838	mg/L	0.00288	0.9838	mg/L	0.00288	0.29%
Tl 190.801†	1645.5	1.906	mg/L	0.0100	1.906	mg/L	0.0100	0.52%
V 292.402†	207192.4	0.9771	mg/L	0.00334	0.9771	mg/L	0.00334	0.34%
Zn 206.200†	708.2	0.9646	mg/L	0.00356	0.9646	mg/L	0.00356	0.37%

Sequence No.: 7
Sample ID: CB 2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 11:52:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1322195.4	101.4	%	0.80				0.78%
ScR 361.383	153806.7	102.3	%	0.62				0.60%
Ag 328.068†	76.3	0.00031	mg/L	0.000037	0.00031	mg/L	0.000037	11.81%
Al 308.215†	-1.9	-0.00161	mg/L	0.004154	-0.00161	mg/L	0.004154	258.34%
As 188.979†	2.9	0.00415	mg/L	0.002117	0.00415	mg/L	0.002117	50.96%
B 249.677†	4.1	0.00148	mg/L	0.000354	0.00148	mg/L	0.000354	23.98%
Ba 233.527†	-0.7	-0.00030	mg/L	0.000607	-0.00030	mg/L	0.000607	202.75%
Be 313.042†	15.5	0.00003	mg/L	0.000026	0.00003	mg/L	0.000026	87.31%
Ca 317.933†	11.0	0.00073	mg/L	0.002231	0.00073	mg/L	0.002231	306.21%
Cd 228.802†	4.3	0.00017	mg/L	0.000113	0.00017	mg/L	0.000113	66.42%
Co 228.616†	1.3	0.00005	mg/L	0.000295	0.00005	mg/L	0.000295	587.34%
Cr 267.716†	3.4	0.00054	mg/L	0.000441	0.00054	mg/L	0.000441	80.94%
Cu 324.752†	-8.0	-0.00004	mg/L	0.000191	-0.00004	mg/L	0.000191	527.00%
Fe 273.955†	-0.7	-0.00081	mg/L	0.005455	-0.00081	mg/L	0.005455	674.97%
K 766.490†	-32.6	-0.03103	mg/L	0.065010	-0.03103	mg/L	0.065010	209.49%
Mg 279.077†	8.6	0.00779	mg/L	0.003931	0.00779	mg/L	0.003931	50.44%
Mn 257.610†	-1.9	-0.00008	mg/L	0.000124	-0.00008	mg/L	0.000124	151.04%
Mo 202.031†	0.6	0.00007	mg/L	0.000479	0.00007	mg/L	0.000479	670.96%
Na 589.592†	69.4	0.01300	mg/L	0.003132	0.01300	mg/L	0.003132	24.10%
Na 330.237†	6.8	0.2585	mg/L	0.61200	0.2585	mg/L	0.61200	236.79%
Ni 231.604†	0.6	0.00043	mg/L	0.000647	0.00043	mg/L	0.000647	149.86%
Pb 220.353†	3.6	0.00055	mg/L	0.000778	0.00055	mg/L	0.000778	142.57%
Sb 206.836†	4.0	0.00459	mg/L	0.001962	0.00459	mg/L	0.001962	42.75%
Se 196.026†	1.7	0.00182	mg/L	0.004865	0.00182	mg/L	0.004865	267.25%
Si 288.158†	10.9	0.00908	mg/L	0.002907	0.00908	mg/L	0.002907	32.02%
Sn 189.927†	4.4	0.00138	mg/L	0.001165	0.00138	mg/L	0.001165	84.63%
Sr 421.552†	36.8	0.00006	mg/L	0.000046	0.00006	mg/L	0.000046	72.15%
Ti 334.903†	-15.2	-0.00073	mg/L	0.000306	-0.00073	mg/L	0.000306	41.84%
Tl 190.801†	-0.7	-0.00087	mg/L	0.002402	-0.00087	mg/L	0.002402	277.39%
V 292.402†	12.1	0.00006	mg/L	0.000148	0.00006	mg/L	0.000148	243.40%
Zn 206.200†	0.0	0.00001	mg/L	0.003231	0.00001	mg/L	0.003231	>999.9%

Analysis Begun

Start Time: 7/31/2006 11:57:30 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 7/31/2006 8:39:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0731.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: DI CHECK
Analyst: JLB
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 21
Date Collected: 7/31/2006 11:57:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1371162.2	105.2	%	0.64				0.60%
ScR 361.383	155627.6	103.5	%	0.69				0.67%
Ag 328.068†	-20.5	-0.00008	mg/L	0.000192	-0.00008	mg/L	0.000192	230.81%
Al 308.215†	10.9	0.00925	mg/L	0.012461	0.00925	mg/L	0.012461	134.77%
As 188.979†	1.7	0.00249	mg/L	0.002784	0.00249	mg/L	0.002784	111.80%
B 249.677†	-14.1	-0.00512	mg/L	0.001194	-0.00512	mg/L	0.001194	23.34%
Ba 233.527†	-0.9	-0.00039	mg/L	0.000232	-0.00039	mg/L	0.000232	59.62%
Be 313.042†	-34.4	-0.00007	mg/L	0.000019	-0.00007	mg/L	0.000019	29.19%
Ca 317.933†	-18.5	-0.00123	mg/L	0.001780	-0.00123	mg/L	0.001780	144.80%
Cd 228.802†	2.1	0.00008	mg/L	0.000135	0.00008	mg/L	0.000135	168.62%
Co 228.616†	4.7	0.00018	mg/L	0.000123	0.00018	mg/L	0.000123	69.54%
Cr 267.716†	-1.3	-0.00021	mg/L	0.000772	-0.00021	mg/L	0.000772	374.19%
Cu 324.752†	-45.6	-0.00021	mg/L	0.000171	-0.00021	mg/L	0.000171	83.27%
Fe 273.955†	0.2	0.00021	mg/L	0.001715	0.00021	mg/L	0.001715	822.00%
K 766.490†	-81.0	-0.07718	mg/L	0.007940	-0.07718	mg/L	0.007940	10.29%
Mg 279.077†	11.8	0.01072	mg/L	0.008786	0.01072	mg/L	0.008786	81.95%
Mn 257.610†	-8.7	-0.00038	mg/L	0.000115	-0.00038	mg/L	0.000115	30.70%
Mo 202.031†	2.8	0.00034	mg/L	0.000289	0.00034	mg/L	0.000289	85.36%
Na 589.592†	62.2	0.01165	mg/L	0.005941	0.01165	mg/L	0.005941	50.98%
Na 330.237†	10.8	0.4088	mg/L	0.56902	0.4088	mg/L	0.56902	139.19%
Ni 231.604†	-0.5	-0.00030	mg/L	0.001679	-0.00030	mg/L	0.001679	562.05%
Pb 220.353†	-8.4	-0.00126	mg/L	0.000431	-0.00126	mg/L	0.000431	34.23%
Sb 206.836†	3.7	0.00423	mg/L	0.004315	0.00423	mg/L	0.004315	102.11%
Se 196.026†	4.9	0.00516	mg/L	0.005116	0.00516	mg/L	0.005116	99.22%
Si 288.158†	-0.4	-0.00030	mg/L	0.002013	-0.00030	mg/L	0.002013	666.33%
Sn 189.927†	-1.9	-0.00060	mg/L	0.001005	-0.00060	mg/L	0.001005	167.60%
Sr 421.552†	79.7	0.00014	mg/L	0.000065	0.00014	mg/L	0.000065	47.06%
Ti 334.903†	-19.6	-0.00094	mg/L	0.000986	-0.00094	mg/L	0.000986	104.91%
Tl 190.801†	-0.7	-0.00082	mg/L	0.002691	-0.00082	mg/L	0.002691	327.99%
V 292.402†	24.2	0.00011	mg/L	0.000259	0.00011	mg/L	0.000259	230.31%
Zn 206.200†	-0.4	-0.00053	mg/L	0.001261	-0.00053	mg/L	0.001261	236.02%

Sequence No.: 2
Sample ID: JP87 MB WMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 7/31/2006 12:03:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 MB WMN

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JP87 MB WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1366184.1	104.8	%	0.31				0.29%
ScR 361.383	154781.8	102.9	%	0.74				0.72%
Ag 328.068†	-61.3	-0.00025	mg/L	0.000069	-0.00025	mg/L	0.000069	27.67%
Al 308.215†	12.8	0.01093	mg/L	0.011772	0.01093	mg/L	0.011772	107.69%
As 188.979†	4.1	0.00592	mg/L	0.002866	0.00592	mg/L	0.002866	48.42%
B 249.677†	-11.5	-0.00417	mg/L	0.000856	-0.00417	mg/L	0.000856	20.53%
Ba 233.527†	2.4	0.00102	mg/L	0.000472	0.00102	mg/L	0.000472	46.26%
Be 313.042†	-21.4	-0.00004	mg/L	0.000021	-0.00004	mg/L	0.000021	51.19%
Ca 317.933†	24.7	0.00164	mg/L	0.001605	0.00164	mg/L	0.001605	97.84%
Cd 228.802†	-0.0	-0.00001	mg/L	0.000174	-0.00001	mg/L	0.000174	>999.9%
Co 228.616†	1.7	0.00007	mg/L	0.000474	0.00007	mg/L	0.000474	720.46%
Cr 267.716†	-2.6	-0.00042	mg/L	0.000431	-0.00042	mg/L	0.000431	103.35%
Cu 324.752†	-45.2	-0.00020	mg/L	0.000169	-0.00020	mg/L	0.000169	83.20%
Fe 273.955†	1.1	0.00138	mg/L	0.005020	0.00138	mg/L	0.005020	363.44%
K 766.490†	-27.9	-0.02661	mg/L	0.042624	-0.02661	mg/L	0.042624	160.15%
Mg 279.077†	10.0	0.00907	mg/L	0.005476	0.00907	mg/L	0.005476	60.40%
Mn 257.610†	-9.1	-0.00039	mg/L	0.000227	-0.00039	mg/L	0.000227	57.66%
Mo 202.031†	-0.5	-0.00006	mg/L	0.000090	-0.00006	mg/L	0.000090	141.11%
Na 589.592†	128.2	0.02401	mg/L	0.005156	0.02401	mg/L	0.005156	21.47%
Na 330.237†	12.7	0.4819	mg/L	0.73327	0.4819	mg/L	0.73327	152.16%
Ni 231.604†	0.3	0.00020	mg/L	0.002453	0.00020	mg/L	0.002453	>999.9%
Pb 220.353†	-15.1	-0.00227	mg/L	0.000879	-0.00227	mg/L	0.000879	38.70%
Sb 206.836†	2.4	0.00277	mg/L	0.002429	0.00277	mg/L	0.002429	87.63%
Se 196.026†	9.0	0.00945	mg/L	0.007899	0.00945	mg/L	0.007899	83.63%
Si 288.158†	3.3	0.00275	mg/L	0.002523	0.00275	mg/L	0.002523	91.78%
Sn 189.927†	0.5	0.00015	mg/L	0.000731	0.00015	mg/L	0.000731	488.16%
Sr 421.552†	66.9	0.00012	mg/L	0.000096	0.00012	mg/L	0.000096	81.99%
Ti 334.903†	-30.3	-0.00145	mg/L	0.001163	-0.00145	mg/L	0.001163	80.02%
Tl 190.801†	-1.5	-0.00177	mg/L	0.000680	-0.00177	mg/L	0.000680	38.50%
V 292.402†	-15.4	-0.00007	mg/L	0.000153	-0.00007	mg/L	0.000153	205.29%
Zn 206.200†	-1.4	-0.00193	mg/L	0.001343	-0.00193	mg/L	0.001343	69.63%

Sequence No.: 3
Sample ID: JP87 I WMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 7/31/2006 12:10:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 I WMN

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JP87 I WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1373773.7	105.4	%	0.64				0.61%
ScR 361.383	155145.1	103.2	%	0.31				0.30%
Ag 328.068†	-76.6	-0.00031	mg/L	0.000218	-0.00031	mg/L	0.000218	70.18%
Al 308.215†	203.9	0.1737	mg/L	0.01245	0.1737	mg/L	0.01245	7.17%
As 188.979†	0.4	0.00008	mg/L	0.003411	0.00008	mg/L	0.003411	>999.9%
B 249.677†	437.2	0.1590	mg/L	0.00117	0.1590	mg/L	0.00117	0.74%
Ba 233.527†	0.8	0.00032	mg/L	0.001292	0.00032	mg/L	0.001292	403.38%
Be 313.042†	-31.3	-0.00006	mg/L	0.000028	-0.00006	mg/L	0.000028	46.41%
Ca 317.933†	248.3	0.01650	mg/L	0.000112	0.01650	mg/L	0.000112	0.68%
Cd 228.802†	0.8	0.00003	mg/L	0.000176	0.00003	mg/L	0.000176	573.54%
Co 228.616†	5.8	-0.00009	mg/L	0.000030	-0.00009	mg/L	0.000030	33.37%
Cr 267.716†	0.5	0.00007	mg/L	0.000244	0.00007	mg/L	0.000244	361.23%
Cu 324.752†	-67.4	-0.00034	mg/L	0.000252	-0.00034	mg/L	0.000252	73.57%
Fe 273.955†	2.2	0.00273	mg/L	0.002975	0.00273	mg/L	0.002975	109.15%
K 766.490†	25.5	0.02430	mg/L	0.019973	0.02430	mg/L	0.019973	82.19%
Mg 279.077†	14.6	0.01329	mg/L	0.010166	0.01329	mg/L	0.010166	76.50%
Mn 257.610†	-6.5	-0.00028	mg/L	0.000095	-0.00028	mg/L	0.000095	33.94%
Mo 202.031†	-0.6	-0.00007	mg/L	0.000077	-0.00007	mg/L	0.000077	104.13%
Na 589.592†	1358.6	0.2545	mg/L	0.00139	0.2545	mg/L	0.00139	0.55%
Na 330.237†	16.8	0.6836	mg/L	0.60530	0.6836	mg/L	0.60530	88.55%
Ni 231.604†	-3.4	-0.00225	mg/L	0.001820	-0.00225	mg/L	0.001820	80.86%
Pb 220.353†	-14.7	-0.00217	mg/L	0.000149	-0.00217	mg/L	0.000149	6.88%
Sb 206.836†	-14.8	0.00265	mg/L	0.000841	0.00265	mg/L	0.000841	31.73%
Se 196.026†	1.9	0.00195	mg/L	0.001963	0.00195	mg/L	0.001963	100.44%
Si 288.158†	1765.1	1.475	mg/L	0.0008	1.475	mg/L	0.0008	0.06%
Sn 189.927†	5228.6	1.637	mg/L	0.0068	1.637	mg/L	0.0068	0.41%
Sr 421.552†	108.5	0.00019	mg/L	0.000052	0.00019	mg/L	0.000052	27.66%
Ti 334.903†	3727.6	0.1789	mg/L	0.00060	0.1789	mg/L	0.00060	0.34%
Tl 190.801†	-0.0	-0.00021	mg/L	0.001051	-0.00021	mg/L	0.001051	499.05%
V 292.402†	2.9	-0.00007	mg/L	0.000094	-0.00007	mg/L	0.000094	135.08%
Zn 206.200†	-0.5	-0.00075	mg/L	0.002147	-0.00075	mg/L	0.002147	287.00%

Sequence No.: 4
Sample ID: JP87 H WMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 7/31/2006 12:16:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 H WMN

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JP87 H WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1377233.4	105.6	%	0.46				0.44%
ScR 361.383	157139.6	104.5	%	0.49				0.47%
Ag 328.068†	6535.8	0.02691	mg/L	0.000269	0.02691	mg/L	0.000269	1.00%
Al 308.215†	548.5	0.4469	mg/L	0.00719	0.4469	mg/L	0.00719	1.61%
As 188.979†	258.2	0.3709	mg/L	0.00283	0.3709	mg/L	0.00283	0.76%
B 249.677†	15.9	0.00586	mg/L	0.000116	0.00586	mg/L	0.000116	1.98%
Ba 233.527†	4730.1	1.975	mg/L	0.0070	1.975	mg/L	0.0070	0.35%
Be 313.042†	62689.8	0.1175	mg/L	0.00028	0.1175	mg/L	0.00028	0.24%
Ca 317.933†	90.6	0.00602	mg/L	0.000641	0.00602	mg/L	0.000641	10.65%
Cd 228.802†	788.8	0.03180	mg/L	0.000175	0.03180	mg/L	0.000175	0.55%
Co 228.616†	18167.0	0.6773	mg/L	0.00252	0.6773	mg/L	0.00252	0.37%
Cr 267.716†	1661.1	0.2669	mg/L	0.00156	0.2669	mg/L	0.00156	0.59%
Cu 324.752†	99448.1	0.4487	mg/L	0.00138	0.4487	mg/L	0.00138	0.31%
Fe 273.955†	2556.1	3.107	mg/L	0.0088	3.107	mg/L	0.0088	0.28%
K 766.490†	-55.1	-0.05248	mg/L	0.015061	-0.05248	mg/L	0.015061	28.70%
Mg 279.077†	15.6	0.01333	mg/L	0.001261	0.01333	mg/L	0.001261	9.46%
Mn 257.610†	9092.8	0.3921	mg/L	0.00170	0.3921	mg/L	0.00170	0.43%
Mo 202.031†	906.6	0.1115	mg/L	0.00035	0.1115	mg/L	0.00035	0.31%
Na 589.592†	197.3	0.03697	mg/L	0.007868	0.03697	mg/L	0.007868	21.28%
Na 330.237†	19.9	0.2614	mg/L	0.12619	0.2614	mg/L	0.12619	48.28%
Ni 231.604†	4361.1	2.884	mg/L	0.0121	2.884	mg/L	0.0121	0.42%
Pb 220.353†	10301.0	1.549	mg/L	0.0081	1.549	mg/L	0.0081	0.52%
Sb 206.836†	505.1	0.5817	mg/L	0.00146	0.5817	mg/L	0.00146	0.25%
Se 196.026†	1416.3	1.481	mg/L	0.0079	1.481	mg/L	0.0079	0.53%
Si 288.158†	165.9	0.1392	mg/L	0.00339	0.1392	mg/L	0.00339	2.44%
Sn 189.927†	-0.0	0.00114	mg/L	0.000102	0.00114	mg/L	0.000102	8.92%
Sr 421.552†	77056.8	0.1342	mg/L	0.00032	0.1342	mg/L	0.00032	0.24%
Ti 334.903†	-10.1	-0.00066	mg/L	0.000468	-0.00066	mg/L	0.000468	71.25%
Tl 190.801†	555.1	0.6393	mg/L	0.00494	0.6393	mg/L	0.00494	0.77%
V 292.402†	234012.1	1.098	mg/L	0.0032	1.098	mg/L	0.0032	0.29%
Zn 206.200†	1444.8	1.969	mg/L	0.0078	1.969	mg/L	0.0078	0.40%

Sequence No.: 5
Sample ID: QC 7M
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 25
Date Collected: 7/31/2006 12:23:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC 7M

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: QC 7M

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1319016.0	101.2	%	0.27				0.27%
ScR 361.383	151244.7	100.6	%	0.81				0.81%
Ag 328.068†	239555.6	0.9717	mg/L	0.00190	0.9717	mg/L	0.00190	0.20%
Al 308.215†	2327.7	1.984	mg/L	0.0157	1.984	mg/L	0.0157	0.79%
As 188.979†	2.5	0.00313	mg/L	0.001478	0.00313	mg/L	0.001478	47.22%
B 249.677†	5398.5	1.965	mg/L	0.0118	1.965	mg/L	0.0118	0.60%
Ba 233.527†	4724.0	1.973	mg/L	0.0074	1.973	mg/L	0.0074	0.38%
Be 313.042†	-1.8	0.00000	mg/L	0.000047	0.00000	mg/L	0.000047	>999.9%
Ca 317.933†	20.1	0.00134	mg/L	0.001286	0.00134	mg/L	0.001286	96.17%
Cd 228.802†	4.1	0.00007	mg/L	0.000119	0.00007	mg/L	0.000119	175.92%
Co 228.616†	8.7	-0.00012	mg/L	0.000214	-0.00012	mg/L	0.000214	185.04%
Cr 267.716†	2.6	0.00041	mg/L	0.001341	0.00041	mg/L	0.001341	325.87%
Cu 324.752†	3.9	0.00002	mg/L	0.000097	0.00002	mg/L	0.000097	531.86%
Fe 273.955†	1.7	0.00207	mg/L	0.003091	0.00207	mg/L	0.003091	149.22%
K 766.490†	21350.9	20.35	mg/L	0.159	20.35	mg/L	0.159	0.78%
Mg 279.077†	1.8	0.00161	mg/L	0.010773	0.00161	mg/L	0.010773	670.55%
Mn 257.610†	-1.2	-0.00007	mg/L	0.000060	-0.00007	mg/L	0.000060	91.11%
Mo 202.031†	-0.5	-0.00002	mg/L	0.000267	-0.00002	mg/L	0.000267	>999.9%
Na 589.592†	11022.8	2.065	mg/L	0.0144	2.065	mg/L	0.0144	0.70%
Na 330.237†	64.9	2.469	mg/L	0.5336	2.469	mg/L	0.5336	21.61%
Ni 231.604†	0.0	0.00001	mg/L	0.002295	0.00001	mg/L	0.002295	>999.9%
Pb 220.353†	-1.3	0.00019	mg/L	0.000740	0.00019	mg/L	0.000740	392.12%
Sb 206.836†	6.0	0.00690	mg/L	0.002419	0.00690	mg/L	0.002419	35.04%
Se 196.026†	-4.9	-0.00512	mg/L	0.003518	-0.00512	mg/L	0.003518	68.72%
Si 288.158†	2515.7	2.102	mg/L	0.0136	2.102	mg/L	0.0136	0.65%
Sn 189.927†	5.9	0.00185	mg/L	0.000475	0.00185	mg/L	0.000475	25.64%
Sr 421.552†	53.9	0.00009	mg/L	0.000025	0.00009	mg/L	0.000025	27.01%
Ti 334.903†	-17.1	-0.00082	mg/L	0.001286	-0.00082	mg/L	0.001286	156.27%
Tl 190.801†	-2.3	-0.00266	mg/L	0.003838	-0.00266	mg/L	0.003838	144.01%
V 292.402†	-6.9	-0.00003	mg/L	0.000226	-0.00003	mg/L	0.000226	776.11%
Zn 206.200†	-0.2	-0.00026	mg/L	0.001495	-0.00026	mg/L	0.001495	572.77%

Sequence No.: 6
Sample ID: SPEX 21
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 26
Date Collected: 7/31/2006 12:29:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SPEX 21

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: SPEX 21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1335362.6	102.4	%	0.58				0.57%
ScR 361.383	153029.0	101.8	%	0.24				0.24%
Ag 328.068†	24.9	0.00028	mg/L	0.000173	0.00028	mg/L	0.000173	62.45%
Al 308.215†	95.5	0.00813	mg/L	0.007074	0.00813	mg/L	0.007074	87.02%
As 188.979†	1335.5	1.915	mg/L ✓	0.0063	1.915	mg/L	0.0063	0.33%
B 249.677†	7.7	0.00961	mg/L	0.002046	0.00961	mg/L	0.002046	21.30%
Ba 233.527†	1.3	-0.00027	mg/L	0.000660	-0.00027	mg/L	0.000660	247.49%
Be 313.042†	1017754.0	1.933	mg/L ✓	0.0016	1.933	mg/L	0.0016	0.08%
Ca 317.933†	29520.2	1.962	mg/L ✓	0.0099	1.962	mg/L	0.0099	0.51%
Cd 228.802†	48373.5	1.960	mg/L ✓	0.0160	1.960	mg/L	0.0160	0.82%
Co 228.616†	53101.0	1.979	mg/L ✓	0.0185	1.979	mg/L	0.0185	0.93%
Cr 267.716†	12097.2	1.943	mg/L ✓	0.0087	1.943	mg/L	0.0087	0.45%
Cu 324.752†	438827.3	1.977	mg/L ✓	0.0036	1.977	mg/L	0.0036	0.18%
Fe 273.955†	1631.8	1.980	mg/L ✓	0.0069	1.980	mg/L	0.0069	0.35%
K 766.490†	36.6	0.03490	mg/L	0.019387	0.03490	mg/L	0.019387	55.55%
Mg 279.077†	2217.1	2.021	mg/L ✓	0.0113	2.021	mg/L	0.0113	0.56%
Mn 257.610†	45367.5	1.955	mg/L ✓	0.0078	1.955	mg/L	0.0078	0.40%
Mo 202.031†	15943.4	1.961	mg/L ✓	0.0238	1.961	mg/L	0.0238	1.21%
Na 589.592†	132.1	0.02474	mg/L	0.004468	0.02474	mg/L	0.004468	18.06%
Na 330.237†	7.0	0.2653	mg/L	0.79125	0.2653	mg/L	0.79125	298.25%
Ni 231.604†	2927.7	1.937	mg/L ✓	0.0029	1.937	mg/L	0.0029	0.15%
Pb 220.353†	13165.8	1.982	mg/L ✓	0.0220	1.982	mg/L	0.0220	1.11%
Sb 206.836†	1816.4	2.068	mg/L ✓	0.0142	2.068	mg/L	0.0142	0.69%
Se 196.026†	1841.2	1.924	mg/L ✓	0.0079	1.924	mg/L	0.0079	0.41%
Si 288.158†	117.3	0.1021	mg/L	0.00706	0.1021	mg/L	0.00706	6.91%
Sn 189.927†	-10.7	0.00047	mg/L	0.000395	0.00047	mg/L	0.000395	83.11%
Sr 421.552†	1127972.5	1.965	mg/L ✓	0.0042	1.965	mg/L	0.0042	0.21%
Ti 334.903†	40254.5	1.930	mg/L ✓	0.0087	1.930	mg/L	0.0087	0.45%
Tl 190.801†	1746.3	2.019	mg/L ✓	0.0132	2.019	mg/L	0.0132	0.65%
V 292.402†	424524.3	2.002	mg/L ✓	0.0064	2.002	mg/L	0.0064	0.32%
Zn 206.200†	1362.4	1.856	mg/L ✓	0.0085	1.856	mg/L	0.0085	0.46%

Sequence No.: 7
Sample ID: JQ68 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 27
Date Collected: 7/31/2006 12:36:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ68 A SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JQ68 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1336210.3	102.5	%	0.09				0.08%
ScR 361.383	158006.5	105.1	%	0.96				0.92%
Ag 328.068†	-750.1	0.00260	mg/L	0.000145	0.01301	mg/L	0.000727	5.59%
Al 308.215†	52202.2	44.48	mg/L	0.246	222.4	mg/L	1.23	0.55%
As 188.979†	1402.7	2.005	mg/L	0.0064	10.03	mg/L	0.032	0.32%
B 249.677†	25.1	0.00935	mg/L	0.002864	0.04674	mg/L	0.014319	30.63%
Ba 233.527†	449.5	0.1776	mg/L	0.00262	0.8881	mg/L	0.01308	1.47%
Be 313.042†	513.4	0.00074	mg/L	0.000013	0.00371	mg/L	0.000063	1.68%
Ca 317.933†	612708.3	40.72	mg/L	0.215	203.6	mg/L	1.07	0.53%
Cd 228.802†	215.1	0.00451	mg/L	0.000184	0.02257	mg/L	0.000918	4.07%
Co 228.616†	3576.0	0.1266	mg/L	0.00021	0.6331	mg/L	0.00105	0.17%
Cr 267.716†	957.2	0.1607	mg/L	0.00099	0.8035	mg/L	0.00497	0.62%
Cu 324.752†	416218.2	1.889	mg/L	0.0009	9.443	mg/L	0.0046	0.05%
Fe 273.955†	115041.8	139.9	mg/L	0.54	699.6	mg/L	2.70	0.39%
K 766.490†	4027.1	3.837	mg/L	0.0432	19.19	mg/L	0.216	1.13%
Mg 279.077†	29183.6	26.38	mg/L	0.126	131.9	mg/L	0.63	0.48%
Mn 257.610†	24907.0	1.072	mg/L	0.0065	5.362	mg/L	0.0327	0.61%
Mo 202.031†	3171.0	0.3903	mg/L	0.00088	1.952	mg/L	0.0044	0.23%
Na 589.592†	9743.4	1.825	mg/L	0.0131	9.127	mg/L	0.0653	0.72%
Na 330.237†	70.3	1.883	mg/L	0.1301	9.417	mg/L	0.6507	6.91%
Ni 231.604†	216.5	0.1434	mg/L	0.00503	0.7169	mg/L	0.02515	3.51%
Pb 220.353†	10560.7	1.595	mg/L	0.0051	7.975	mg/L	0.0256	0.32%
Sb 206.836†	319.2	0.3686	mg/L	0.00336	1.843	mg/L	0.0168	0.91%
Se 196.026†	-34.2	-0.03694	mg/L	0.009722	-0.1847	mg/L	0.04861	26.32%
Si 288.158†	1390.1	1.162	mg/L	0.0089	5.810	mg/L	0.0447	0.77%
Sn 189.927†	267.0	0.09032	mg/L	0.001918	0.4516	mg/L	0.00959	2.12%
Sr 421.552†	121474.4	0.2116	mg/L	0.00126	1.058	mg/L	0.0063	0.59%
Ti 334.903†	52892.5	2.539	mg/L	0.0149	12.69	mg/L	0.075	0.59%
Tl 190.801†	-18.4	-0.02303	mg/L	0.001057	-0.1151	mg/L	0.00528	4.59%
V 292.402†	31883.2	0.1496	mg/L	0.00004	0.7480	mg/L	0.00019	0.03%
Zn 206.200†	3089.9	4.209	mg/L	0.0435	21.04	mg/L	0.217	1.03%

Sequence No.: 89
Sample ID: JQ66 F SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

8.1.6 JLB

Autosampler Location: 28
Date Collected: 7/31/2006 12:43:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ66 F SWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JQ66 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1331140.9	102.1	%	0.42				0.41%
ScR 361.383	155526.7	103.4	%	0.92				0.89%
Ag 328.068†	-1585.2	-0.00090	mg/L	0.000148	-0.00181	mg/L	0.000296	16.39%
Al 308.215†	103045.0	87.82	mg/L	0.674	175.6	mg/L	1.35	0.77%
As 188.979†	74.9	0.07923	mg/L	0.006738	0.1585	mg/L	0.01348	8.50%
B 249.677†	63.3	0.02163	mg/L	0.002215	0.04327	mg/L	0.004430	10.24%
Ba 233.527†	495.5	0.1969	mg/L	0.00283	0.3938	mg/L	0.00567	1.44%
Be 313.042†	915.5	0.00128	mg/L	0.000067	0.00256	mg/L	0.000134	5.23%
Ca 317.933†	1517722.6	100.9	mg/L	0.27	201.7	mg/L	0.53	0.27%
Cd 228.802†	38.0	0.00004	mg/L	0.000135	0.00008	mg/L	0.000269	357.09%
Co 228.616†	1683.1	0.05089	mg/L	0.000555	0.1018	mg/L	0.00111	1.09%
Cr 267.716†	1352.1	0.2186	mg/L	0.00250	0.4372	mg/L	0.00499	1.14%
Cu 324.752†	24081.7	0.1198	mg/L	0.00052	0.2396	mg/L	0.00105	0.44%
Fe 273.955†	113072.5	137.5	mg/L	1.16	275.1	mg/L	2.31	0.84%
K 766.490†	6799.8	6.480	mg/L	0.0655	12.96	mg/L	0.131	1.01%
Mg 279.077†	63477.1	57.51	mg/L	0.635	115.0	mg/L	1.27	1.10%
Mn 257.610†	40034.4	1.722	mg/L	0.0139	3.445	mg/L	0.0279	0.81%
Mo 202.031†	73.0	0.00956	mg/L	0.000460	0.01912	mg/L	0.000919	4.81%
Na 589.592†	15490.1	2.902	mg/L	0.0281	5.804	mg/L	0.0563	0.97%
Na 330.237†	63.9	2.922	mg/L	0.3019	5.845	mg/L	0.6039	10.33%
Ni 231.604†	401.5	0.2656	mg/L	0.00574	0.5311	mg/L	0.01148	2.16%
Pb 220.353†	91.0	0.03093	mg/L	0.001793	0.06187	mg/L	0.003586	5.80%
Sb 206.836†	17.9	0.02299	mg/L	0.002912	0.04598	mg/L	0.005824	12.67%
Se 196.026†	-38.6	-0.04233	mg/L	0.002168	-0.08467	mg/L	0.004335	5.12%
Si 288.158†	2178.3	1.821	mg/L	0.0111	3.642	mg/L	0.0222	0.61%
Sn 189.927†	-75.2	-0.00832	mg/L	0.001096	-0.01664	mg/L	0.002193	13.17%
Sr 421.552†	287328.9	0.5005	mg/L	0.00121	1.001	mg/L	0.0024	0.24%
Ti 334.903†	122015.2	5.857	mg/L	0.0103	11.71	mg/L	0.021	0.18%
Tl 190.801†	-22.4	-0.03200	mg/L	0.003531	-0.06400	mg/L	0.007062	11.04%
V 292.402†	62771.6	0.2929	mg/L	0.00102	0.5858	mg/L	0.00203	0.35%
Zn 206.200†	209.4	0.2830	mg/L	0.00482	0.5660	mg/L	0.00964	1.70%

Sequence No.: 9
Sample ID: JQ66 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 7/31/2006 12:50:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ66 A SWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JQ66 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1321367.2	101.4	%	0.42				0.42%
ScR 361.383	154828.0	103.0	%	0.59				0.57%
Ag 328.068†	-1872.4	-0.00124	mg/L	0.000104	-0.00247	mg/L	0.000207	8.38%
Al 308.215†	124888.8	106.4	mg/L	0.16	212.9	mg/L	0.33	0.15%
As 188.979†	64.0	0.06515	mg/L	0.002471	0.1303	mg/L	0.00494	3.79%
B 249.677†	57.9	0.01972	mg/L	0.002015	0.03944	mg/L	0.004030	10.22%
Ba 233.527†	553.4	0.2196	mg/L	0.00216	0.4392	mg/L	0.00431	0.98%
Be 313.042†	1136.1	0.00164	mg/L	0.000024	0.00327	mg/L	0.000047	1.44%
Ca 317.933†	697593.4	46.36	mg/L	0.129	92.72	mg/L	0.259	0.28%
Cd 228.802†	36.0	0.00024	mg/L	0.000015	-0.00049	mg/L	0.000030	6.21%
Co 228.616†	1827.3	0.05628	mg/L	0.000337	0.1126	mg/L	0.00067	0.60%
Cr 267.716†	1402.7	0.2280	mg/L	0.00137	0.4559	mg/L	0.00274	0.60%
Cu 324.752†	28562.7	0.1420	mg/L	0.00108	0.2840	mg/L	0.00216	0.76%
Fe 273.955†	130123.7	158.3	mg/L	1.09	316.5	mg/L	2.19	0.69%
K 766.490†	6244.6	5.951	mg/L	0.0555	11.90	mg/L	0.111	0.93%
Mg 279.077†	66230.2	59.99	mg/L	0.019	120.0	mg/L	0.04	0.03%
Mn 257.610†	46071.9	1.983	mg/L	0.0069	3.965	mg/L	0.0138	0.35%
Mo 202.031†	45.1	0.00648	mg/L	0.000421	0.01296	mg/L	0.000842	6.50%
Na 589.592†	14559.8	2.728	mg/L	0.0051	5.456	mg/L	0.0103	0.19%
Na 330.237†	54.1	3.000	mg/L	0.5362	6.000	mg/L	1.0724	17.87%
Ni 231.604†	347.6	0.2299	mg/L	0.00361	0.4598	mg/L	0.00722	1.57%
Pb 220.353†	123.2	0.03936	mg/L	0.000477	0.07872	mg/L	0.000954	1.21%
Sb 206.836†	16.2	0.02104	mg/L	0.000985	0.04208	mg/L	0.001970	4.68%
Se 196.026†	-47.6	-0.05207	mg/L	0.001641	-0.1041	mg/L	0.00328	3.15%
Si 288.158†	1548.4	1.294	mg/L	0.0043	2.589	mg/L	0.0086	0.33%
Sn 189.927†	-44.6	-0.00845	mg/L	0.001456	-0.01690	mg/L	0.002912	17.23%
Sr 421.552†	122389.0	0.2132	mg/L	0.00041	0.4264	mg/L	0.00082	0.19%
Ti 334.903†	119828.4	5.752	mg/L	0.0143	11.50	mg/L	0.029	0.25%
Tl 190.801†	-18.8	-0.02791	mg/L	0.005243	-0.05582	mg/L	0.010486	18.79%
V 292.402†	71495.9	0.3339	mg/L	0.00196	0.6678	mg/L	0.00392	0.59%
Zn 206.200†	251.2	0.3387	mg/L	0.00400	0.6773	mg/L	0.00800	1.18%

Sequence No.: 10
Sample ID: JQ53 MBSPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 7/31/2006 12:57:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 MBSPK SWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JQ53 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1325695.4	101.7	%	0.35				0.35%
ScR 361.383	154482.9	102.7	%	0.56				0.55%
Ag 328.068†	120220.8	0.4878	mg/L	0.00268	0.9757	mg/L	0.00536	0.55%
Al 308.215†	2365.0	2.007	mg/L	0.0058	4.015	mg/L	0.0116	0.29%
As 188.979†	1371.5	1.973	mg/L	0.0060	3.947	mg/L	0.0120	0.30%
B 249.677†	-6.3	-0.00136	mg/L	0.000657	-0.00273	mg/L	0.001313	48.14%
Ba 233.527†	4774.4	1.994	mg/L	0.0155	3.988	mg/L	0.0309	0.78%
Be 313.042†	265180.2	0.5037	mg/L	0.00081	1.007	mg/L	0.0016	0.16%
Ca 317.933†	150343.4	9.992	mg/L	0.0130	19.98	mg/L	0.026	0.13%
Cd 228.802†	12367.2	0.4988	mg/L	0.00312	0.9977	mg/L	0.00625	0.63%
Co 228.616†	12862.0	0.4794	mg/L	0.00268	0.9588	mg/L	0.00536	0.56%
Cr 267.716†	3076.8	0.4929	mg/L	0.00235	0.9859	mg/L	0.00469	0.48%
Cu 324.752†	108686.6	0.4902	mg/L	0.00302	0.9804	mg/L	0.00605	0.62%
Fe 273.955†	1693.8	2.059	mg/L	0.0147	4.118	mg/L	0.0294	0.71%
K 766.490†	10512.4	10.02	mg/L	0.113	20.03	mg/L	0.226	1.13%
Mg 279.077†	11187.7	10.15	mg/L	0.023	20.31	mg/L	0.046	0.23%
Mn 257.610†	11650.1	0.5021	mg/L	0.00118	1.004	mg/L	0.0024	0.24%
Mo 202.031†	15.9	0.00176	mg/L	0.000199	0.00351	mg/L	0.000398	11.34%
Na 589.592†	53832.1	10.09	mg/L	0.009	20.17	mg/L	0.019	0.09%
Na 330.237†	282.3	10.52	mg/L	0.115	21.05	mg/L	0.230	1.09%
Ni 231.604†	729.6	0.4837	mg/L	0.00280	0.9675	mg/L	0.00560	0.58%
Pb 220.353†	13080.6	1.967	mg/L	0.0141	3.934	mg/L	0.0281	0.72%
Sb 206.836†	1819.3	2.087	mg/L	0.0121	4.174	mg/L	0.0243	0.58%
Se 196.026†	1918.8	2.006	mg/L	0.0090	4.013	mg/L	0.0179	0.45%
Si 288.158†	10.9	0.01015	mg/L	0.002719	0.02029	mg/L	0.005438	26.80%
Sn 189.927†	-24.7	-0.00232	mg/L	0.001449	-0.00464	mg/L	0.002898	62.49%
Sr 421.552†	282653.0	0.4923	mg/L	0.00090	0.9846	mg/L	0.00179	0.18%
Ti 334.903†	5.8	0.00017	mg/L	0.001042	0.00035	mg/L	0.002083	603.24%
Tl 190.801†	1668.6	1.933	mg/L	0.0137	3.865	mg/L	0.0274	0.71%
V 292.402†	105965.4	0.4996	mg/L	0.00334	0.9993	mg/L	0.00669	0.67%
Zn 206.200†	364.2	0.4965	mg/L	0.00594	0.9930	mg/L	0.01189	1.20%

Sequence No.: 11
Sample ID: CV3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 1:03:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1325116.4	101.6	%	0.36				0.36%
ScR 361.383	154222.3	102.6	%	0.77				0.76%
Ag 328.068†	235458.0	0.9552	mg/L	0.00372	0.9552	mg/L	0.00372	0.39%
Al 308.215†	2308.6	1.932	mg/L	0.0120	1.932	mg/L	0.0120	0.62%
As 188.979†	1344.9	1.932	mg/L	0.0070	1.932	mg/L	0.0070	0.36%
B 249.677†	2584.0	0.9436	mg/L	0.00499	0.9436	mg/L	0.00499	0.53%
Ba 233.527†	2316.0	0.9669	mg/L	0.00437	0.9669	mg/L	0.00437	0.45%
Be 313.042†	500252.0	0.9502	mg/L	0.00137	0.9502	mg/L	0.00137	0.14%
Ca 317.933†	29678.1	1.972	mg/L	0.0044	1.972	mg/L	0.0044	0.22%
Cd 228.802†	24744.3	1.001	mg/L	0.0029	1.001	mg/L	0.0029	0.29%
Co 228.616†	25709.5	0.9577	mg/L	0.00319	0.9577	mg/L	0.00319	0.33%
Cr 267.716†	5901.9	0.9478	mg/L	0.00607	0.9478	mg/L	0.00607	0.64%
Cu 324.752†	221194.3	0.9966	mg/L	0.00270	0.9966	mg/L	0.00270	0.27%
Fe 273.955†	1629.5	1.979	mg/L	0.0141	1.979	mg/L	0.0141	0.71%
K 766.490†	20833.3	19.85	mg/L	0.102	19.85	mg/L	0.102	0.52%
Mg 279.077†	2146.2	1.952	mg/L	0.0132	1.952	mg/L	0.0132	0.68%
Mn 257.610†	22237.0	0.9583	mg/L	0.00093	0.9583	mg/L	0.00093	0.10%
Mo 202.031†	7856.4	0.9661	mg/L	0.00209	0.9661	mg/L	0.00209	0.22%
Na 589.592†	258616.2	48.45	mg/L	0.152	48.45	mg/L	0.152	0.31%
Na 330.237†	1314.5	49.98	mg/L	0.298	49.98	mg/L	0.298	0.60%
Ni 231.604†	1430.0	0.9469	mg/L	0.00437	0.9469	mg/L	0.00437	0.46%
Pb 220.353†	12855.7	1.934	mg/L	0.0140	1.934	mg/L	0.0140	0.72%
Sb 206.836†	1791.3	2.061	mg/L	0.0012	2.061	mg/L	0.0012	0.06%
Se 196.026†	1847.6	1.932	mg/L	0.0108	1.932	mg/L	0.0108	0.56%
Si 288.158†	2460.7	2.058	mg/L	0.0185	2.058	mg/L	0.0185	0.90%
Sn 189.927†	2921.9	0.9185	mg/L	0.00276	0.9185	mg/L	0.00276	0.30%
Sr 421.552†	555467.2	0.9675	mg/L	0.00202	0.9675	mg/L	0.00202	0.21%
Ti 334.903†	20293.1	0.9729	mg/L	0.00124	0.9729	mg/L	0.00124	0.13%
Tl 190.801†	1648.4	1.909	mg/L	0.0038	1.909	mg/L	0.0038	0.20%
V 292.402†	206341.2	0.9731	mg/L	0.00488	0.9731	mg/L	0.00488	0.50%
Zn 206.200†	706.5	0.9623	mg/L	0.00693	0.9623	mg/L	0.00693	0.72%

Sequence No.: 12
Sample ID: CB 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 1:10:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1338406.2	102.7	%	0.19				0.19%
ScR 361.383	151390.6	100.7	%	0.79				0.79%
Ag 328.068†	45.1	0.00018	mg/L	0.000134	0.00018	mg/L	0.000134	73.36%
Al 308.215†	-1.2	-0.00107	mg/L	0.005130	-0.00107	mg/L	0.005130	480.80%
As 188.979†	4.2	0.00606	mg/L	0.002144	0.00606	mg/L	0.002144	35.38%
B 249.677†	-0.8	-0.00027	mg/L	0.002030	-0.00027	mg/L	0.002030	748.88%
Ba 233.527†	1.4	0.00060	mg/L	0.000069	0.00060	mg/L	0.000069	11.43%
Be 313.042†	17.5	0.00003	mg/L	0.000077	0.00003	mg/L	0.000077	232.39%
Ca 317.933†	7.0	0.00046	mg/L	0.001327	0.00046	mg/L	0.001327	286.24%
Cd 228.802†	0.1	-0.00001	mg/L	0.000149	-0.00001	mg/L	0.000149	>999.9%
Co 228.616†	1.2	0.00004	mg/L	0.000295	0.00004	mg/L	0.000295	668.71%
Cr 267.716†	8.9	0.00143	mg/L	0.000486	0.00143	mg/L	0.000486	33.94%
Cu 324.752†	-39.4	-0.00018	mg/L	0.000063	-0.00018	mg/L	0.000063	35.50%
Fe 273.955†	0.1	0.00011	mg/L	0.002961	0.00011	mg/L	0.002961	>999.9%
K 766.490†	-52.6	-0.05010	mg/L	0.001104	-0.05010	mg/L	0.001104	2.20%
Mg 279.077†	8.9	0.00812	mg/L	0.006644	0.00812	mg/L	0.006644	81.84%
Mn 257.610†	-1.2	-0.00005	mg/L	0.000008	-0.00005	mg/L	0.000008	15.39%
Mo 202.031†	1.3	0.00016	mg/L	0.000322	0.00016	mg/L	0.000322	197.46%
Na 589.592†	47.2	0.00883	mg/L	0.012918	0.00883	mg/L	0.012918	146.22%
Na 330.237†	8.9	0.3404	mg/L	0.23203	0.3404	mg/L	0.23203	68.17%
Ni 231.604†	-2.3	-0.00152	mg/L	0.001283	-0.00152	mg/L	0.001283	84.47%
Pb 220.353†	1.6	0.00024	mg/L	0.000696	0.00024	mg/L	0.000696	287.54%
Sb 206.836†	3.0	0.00347	mg/L	0.001558	0.00347	mg/L	0.001558	44.88%
Se 196.026†	-3.0	-0.00316	mg/L	0.006696	-0.00316	mg/L	0.006696	211.78%
Si 288.158†	9.5	0.00790	mg/L	0.006308	0.00790	mg/L	0.006308	79.84%
Sn 189.927†	9.1	0.00285	mg/L	0.001854	0.00285	mg/L	0.001854	64.94%
Sr 421.552†	40.2	0.00007	mg/L	0.000073	0.00007	mg/L	0.000073	103.88%
Ti 334.903†	-3.4	-0.00016	mg/L	0.000732	-0.00016	mg/L	0.000732	453.50%
Tl 190.801†	0.0	0.00004	mg/L	0.000558	0.00004	mg/L	0.000558	>999.9%
V 292.402†	41.0	0.00020	mg/L	0.000095	0.00020	mg/L	0.000095	47.18%
Zn 206.200†	-0.1	-0.00019	mg/L	0.003932	-0.00019	mg/L	0.003932	>999.9%

Sequence No.: 13
Sample ID: JQ18 MB2 DMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 31
Date Collected: 7/31/2006 1:16:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ18 MB2 DMN

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JQ18 MB2 DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1387133.6	106.4	%	0.34				0.32%
ScR 361.383	157611.9	104.8	%	0.44				0.42%
Ag 328.068†	-73.3	-0.00030	mg/L	0.000130	-0.00030	mg/L	0.000130	43.77%
Al 308.215†	30.3	0.02586	mg/L	0.019962	0.02586	mg/L	0.019962	77.21%
As 188.979†	1.6	0.00228	mg/L	0.001778	0.00228	mg/L	0.001778	77.96%
B 249.677†	21.6	0.00786	mg/L	0.001618	0.00786	mg/L	0.001618	20.58%
Ba 233.527†	1.1	0.00047	mg/L	0.000567	0.00047	mg/L	0.000567	120.71%
Be 313.042†	-18.6	-0.00004	mg/L	0.000045	-0.00004	mg/L	0.000045	126.90%
Ca 317.933†	146.9	0.00977	mg/L	0.000809	0.00977	mg/L	0.000809	8.29%
Cd 228.802†	1.0	0.00004	mg/L	0.000127	0.00004	mg/L	0.000127	336.73%
Co 228.616†	-0.1	0.00000	mg/L	0.000148	0.00000	mg/L	0.000148	>999.9%
Cr 267.716†	0.8	0.00012	mg/L	0.000415	0.00012	mg/L	0.000415	336.37%
Cu 324.752†	-148.3	-0.00067	mg/L	0.000277	-0.00067	mg/L	0.000277	41.37%
Fe 273.955†	0.5	0.00060	mg/L	0.000394	0.00060	mg/L	0.000394	65.46%
K 766.490†	-88.6	-0.08443	mg/L	0.047856	-0.08443	mg/L	0.047856	56.68%
Mg 279.077†	9.3	0.00844	mg/L	0.000977	0.00844	mg/L	0.000977	11.58%
Mn 257.610†	-9.9	-0.00043	mg/L	0.000233	-0.00043	mg/L	0.000233	54.28%
Mo 202.031†	1.9	0.00023	mg/L	0.000088	0.00023	mg/L	0.000088	38.61%
Na 589.592†	474.7	0.08894	mg/L	0.005328	0.08894	mg/L	0.005328	5.99%
Na 330.237†	8.4	0.3180	mg/L	0.73621	0.3180	mg/L	0.73621	231.49%
Ni 231.604†	-2.2	-0.00145	mg/L	0.002048	-0.00145	mg/L	0.002048	140.91%
Pb 220.353†	-14.1	-0.00212	mg/L	0.000884	-0.00212	mg/L	0.000884	41.72%
Sb 206.836†	1.6	0.00189	mg/L	0.002467	0.00189	mg/L	0.002467	130.72%
Se 196.026†	5.5	0.00573	mg/L	0.000697	0.00573	mg/L	0.000697	12.17%
Si 288.158†	4.1	0.00343	mg/L	0.005297	0.00343	mg/L	0.005297	154.41%
Sn 189.927†	3.6	0.00112	mg/L	0.000893	0.00112	mg/L	0.000893	79.86%
Sr 421.552†	116.7	0.00020	mg/L	0.000028	0.00020	mg/L	0.000028	13.68%
Ti 334.903†	-4.6	-0.00022	mg/L	0.000370	-0.00022	mg/L	0.000370	167.09%
Tl 190.801†	-0.8	-0.00097	mg/L	0.003434	-0.00097	mg/L	0.003434	353.45%
V 292.402†	-5.5	-0.00002	mg/L	0.000042	-0.00002	mg/L	0.000042	172.12%
Zn 206.200†	-0.8	-0.00114	mg/L	0.002135	-0.00114	mg/L	0.002135	187.45%

Sequence No.: 14
Sample ID: JQ18 D DMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 32
Date Collected: 7/31/2006 1:23:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ18 D DMN

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JQ18 D DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1337564.2	102.6	%	0.20				0.20%
ScR 361.383	157795.7	104.9	%	0.29				0.28%
Ag 328.068†	-152.0	-0.00062	mg/L	0.000066	-0.00062	mg/L	0.000066	10.74%
Al 308.215†	12.7	0.01064	mg/L	0.010790	0.01064	mg/L	0.010790	101.45%
As 188.979†	20.2	0.02059	mg/L	0.009267	0.02059	mg/L	0.009267	45.01%
B 249.677†	41.3	0.01508	mg/L	0.001078	0.01508	mg/L	0.001078	7.15%
Ba 233.527†	261.5	0.1092	mg/L	0.00207	0.1092	mg/L	0.00207	1.89%
Be 313.042†	-31.9	-0.00007	mg/L	0.000011	-0.00007	mg/L	0.000011	15.80%
Ca 317.933†	2266180.1	150.6	mg/L	0.20	150.6	mg/L	0.20	0.13%
Cd 228.802†	-11.9	-0.00053	mg/L	0.000132	-0.00053	mg/L	0.000132	24.98%
Co 228.616†	2.6	0.00007	mg/L	0.000136	0.00007	mg/L	0.000136	201.96%
Cr 267.716†	77.7	-0.00054	mg/L	0.000289	-0.00054	mg/L	0.000289	53.89%
Cu 324.752†	528.2	0.00165	mg/L	0.000143	0.00165	mg/L	0.000143	8.67%
Fe 273.955†	0.3	0.00031	mg/L	0.004379	0.00031	mg/L	0.004379	>999.9%
K 766.490†	12498.2	11.91	mg/L	0.060	11.91	mg/L	0.060	0.50%
Mg 279.077†	93859.2	85.18	mg/L	0.088	85.18	mg/L	0.088	0.10%
Mn 257.610†	253.5	0.00864	mg/L	0.000073	0.00864	mg/L	0.000073	0.84%
Mo 202.031†	57.5	0.00506	mg/L	0.000498	0.00506	mg/L	0.000498	9.85%
Na 589.592†	229651.8	43.03	mg/L	0.116	43.03	mg/L	0.116	0.27%
Na 330.237†	1200.4	44.31	mg/L	0.813	44.31	mg/L	0.813	1.83%
Ni 231.604†	0.9	0.00060	mg/L	0.003090	0.00060	mg/L	0.003090	511.12%
Pb 220.353†	11.4	0.00174	mg/L	0.000316	0.00174	mg/L	0.000316	18.15%
Sb 206.836†	8.9	0.00967	mg/L	0.000628	0.00967	mg/L	0.000628	6.50%
Se 196.026†	4.7	0.00495	mg/L	0.008241	0.00495	mg/L	0.008241	166.65%
Si 288.158†	28303.6	23.65	mg/L	0.070	23.65	mg/L	0.070	0.29%
Sn 189.927†	-97.6	-0.00610	mg/L	0.001337	-0.00610	mg/L	0.001337	21.91%
Sr 421.552†	435680.8	0.7589	mg/L	0.00129	0.7589	mg/L	0.00129	0.17%
Ti 334.903†	85.9	0.00411	mg/L	0.000854	0.00411	mg/L	0.000854	20.75%
Tl 190.801†	-20.3	-0.02353	mg/L	0.006543	-0.02353	mg/L	0.006543	27.81%
V 292.402†	924.3	0.00442	mg/L	0.000170	0.00442	mg/L	0.000170	3.84%
Zn 206.200†	-7.7	-0.00849	mg/L	0.003212	-0.00849	mg/L	0.003212	37.82%

Sequence No.: 15
Sample ID: JQ18 E DMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 33
Date Collected: 7/31/2006 1:30:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ18 E DMN

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JQ18 E DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1334121.0	102.3	%	0.17				0.16%
ScR 361.383	157778.4	104.9	%	0.60				0.57%
Ag 328.068†	-145.7	-0.00061	mg/L	0.000240	-0.00061	mg/L	0.000240	39.42%
Al 308.215†	10.6	0.00885	mg/L	0.007741	0.00885	mg/L	0.007741	87.50%
As 188.979†	15.5	0.01395	mg/L	0.001792	0.01395	mg/L	0.001792	12.85%
B 249.677†	28.9	0.01058	mg/L	0.003370	0.01058	mg/L	0.003370	31.84%
Ba 233.527†	187.6	0.07837	mg/L	0.001208	0.07837	mg/L	0.001208	1.54%
Be 313.042†	-25.7	-0.00005	mg/L	0.000048	-0.00005	mg/L	0.000048	90.68%
Ca 317.933†	2263817.4	150.5	mg/L	0.46	150.5	mg/L	0.46	0.30%
Cd 228.802†	-10.6	-0.00046	mg/L	0.000096	-0.00046	mg/L	0.000096	20.67%
Co 228.616†	7.4	0.00026	mg/L	0.000128	0.00026	mg/L	0.000128	50.19%
Cr 267.716†	73.0	-0.00043	mg/L	0.001328	-0.00043	mg/L	0.001328	310.38%
Cu 324.752†	418.6	0.00120	mg/L	0.000263	0.00120	mg/L	0.000263	21.83%
Fe 273.955†	-1.9	-0.00236	mg/L	0.002368	-0.00236	mg/L	0.002368	100.20%
K 766.490†	12087.3	11.52	mg/L	0.133	11.52	mg/L	0.133	1.16%
Mg 279.077†	87209.1	79.15	mg/L	0.568	79.15	mg/L	0.568	0.72%
Mn 257.610†	2705.9	0.1144	mg/L	0.00107	0.1144	mg/L	0.00107	0.94%
Mo 202.031†	63.6	0.00594	mg/L	0.000302	0.00594	mg/L	0.000302	5.09%
Na 589.592†	222197.2	41.63	mg/L	0.081	41.63	mg/L	0.081	0.19%
Na 330.237†	1156.1	42.61	mg/L	0.419	42.61	mg/L	0.419	0.98%
Ni 231.604†	3.0	0.00198	mg/L	0.002525	0.00198	mg/L	0.002525	127.37%
Pb 220.353†	13.6	0.00206	mg/L	0.000083	0.00206	mg/L	0.000083	4.01%
Sb 206.836†	8.8	0.00960	mg/L	0.002125	0.00960	mg/L	0.002125	22.12%
Se 196.026†	8.5	0.00877	mg/L	0.008475	0.00877	mg/L	0.008475	96.66%
Si 288.158†	27471.1	22.96	mg/L	0.181	22.96	mg/L	0.181	0.79%
Sn 189.927†	-98.4	-0.00624	mg/L	0.001456	-0.00624	mg/L	0.001456	23.35%
Sr 421.552†	444060.3	0.7735	mg/L	0.00124	0.7735	mg/L	0.00124	0.16%
Ti 334.903†	68.2	0.00326	mg/L	0.000668	0.00326	mg/L	0.000668	20.48%
Tl 190.801†	-19.0	-0.02198	mg/L	0.001618	-0.02198	mg/L	0.001618	7.36%
V 292.402†	485.1	0.00238	mg/L	0.000376	0.00238	mg/L	0.000376	15.81%
Zn 206.200†	24.6	0.03555	mg/L	0.001209	0.03555	mg/L	0.001209	3.40%

Sequence No.: 16
Sample ID: JQ18 MB2SPK DMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

rerun

Autosampler Location: 34
Date Collected: 7/31/2006 1:37:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ18 MB2SPK DMN

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ18 MB2SPK DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1377478.7	105.7	%	0.98				0.92%
ScR 361.383	160346.3	106.6	%	0.32				0.30%
Ag 328.068†	118762.7	0.4819	mg/L	0.00368	0.4819	mg/L	0.00368	0.76%
Al 308.215†	2327.6	1.976	mg/L	0.0081	1.976	mg/L	0.0081	0.41%
As 188.979†	1378.2	1.983	mg/L	0.0241	1.983	mg/L	0.0241	1.21%
B 249.677†	21.1	0.00856	mg/L	0.002809	0.00856	mg/L	0.002809	32.80%
Ba 233.527†	4642.9	1.939	mg/L	0.0066	1.939	mg/L	0.0066	0.34%
Be 313.042†	259944.4	0.4938	mg/L	0.00142	0.4938	mg/L	0.00142	0.29%
Ca 317.933†	147479.0	9.801	mg/L	0.0343	9.801	mg/L	0.0343	0.35%
Cd 228.802†	12725.0	0.5133	mg/L	0.00375	0.5133	mg/L	0.00375	0.73%
Co 228.616†	12979.5	0.4838	mg/L	0.00310	0.4838	mg/L	0.00310	0.64%
Cr 267.716†	3006.3	0.4816	mg/L	0.00193	0.4816	mg/L	0.00193	0.40%
Cu 324.752†	105451.5	0.4756	mg/L	0.00341	0.4756	mg/L	0.00341	0.72%
Fe 273.955†	1649.2	2.005	mg/L	0.0168	2.005	mg/L	0.0168	0.84%
K 766.490†	10386.4	9.897	mg/L	0.0189	9.897	mg/L	0.0189	0.19%
Mg 279.077†	11048.0	10.03	mg/L	0.032	10.03	mg/L	0.032	0.32%
Mn 257.610†	11296.7	0.4869	mg/L	0.00042	0.4869	mg/L	0.00042	0.09%
Mo 202.031†	13.8	0.00150	mg/L	0.000160	0.00150	mg/L	0.000160	10.71%
Na 589.592†	53799.2	10.08	mg/L	0.040	10.08	mg/L	0.040	0.39%
Na 330.237†	272.6	10.16	mg/L	0.071	10.16	mg/L	0.071	0.70%
Ni 231.604†	719.0	0.4767	mg/L	0.00417	0.4767	mg/L	0.00417	0.87%
Pb 220.353†	13233.0	1.990	mg/L	0.0157	1.990	mg/L	0.0157	0.79%
Sb 206.836†	1802.6	2.080	mg/L	0.0195	2.080	mg/L	0.0195	0.94%
Se 196.026†	2120.5	2.217	mg/L	0.0049	2.217	mg/L	0.0049	0.22%
Si 288.158†	1.9	0.00260	mg/L	0.004242	0.00260	mg/L	0.004242	163.27%
Sn 189.927†	3141.6	0.9887	mg/L	0.00842	0.9887	mg/L	0.00842	0.85%
Sr 421.552†	278612.3	0.4853	mg/L	0.00105	0.4853	mg/L	0.00105	0.22%
Ti 334.903†	-5.8	-0.00038	mg/L	0.000512	-0.00038	mg/L	0.000512	134.15%
Tl 190.801†	1717.6	1.989	mg/L	0.0236	1.989	mg/L	0.0236	1.19%
V 292.402†	105424.7	0.4970	mg/L	0.00359	0.4970	mg/L	0.00359	0.72%
Zn 206.200†	359.8	0.4905	mg/L	0.00149	0.4905	mg/L	0.00149	0.30%

spiked too high

Sequence No.: 17
Sample ID: CV4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 1:44:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1334412.7	102.4	%	0.45				0.44%
ScR 361.383	155401.5	103.3	%	0.41				0.40%
Ag 328.068†	233447.7	0.9471	mg/L	0.00394	0.9471	mg/L	0.00394	0.42%
Al 308.215†	2295.6	1.921	mg/L	0.0095	1.921	mg/L	0.0095	0.49%
As 188.979†	1342.7	1.929	mg/L	0.0052	1.929	mg/L	0.0052	0.27%
B 249.677†	2566.6	0.9373	mg/L	0.00533	0.9373	mg/L	0.00533	0.57%
Ba 233.527†	2306.1	0.9628	mg/L	0.00222	0.9628	mg/L	0.00222	0.23%
Be 313.042†	499549.7	0.9489	mg/L	0.00175	0.9489	mg/L	0.00175	0.18%
Ca 317.933†	29764.4	1.978	mg/L	0.0058	1.978	mg/L	0.0058	0.29%
Cd 228.802†	24531.7	0.9924	mg/L	0.00452	0.9924	mg/L	0.00452	0.46%
Co 228.616†	25491.0	0.9495	mg/L	0.00523	0.9495	mg/L	0.00523	0.55%
Cr 267.716†	5890.6	0.9460	mg/L	0.00318	0.9460	mg/L	0.00318	0.34%
Cu 324.752†	219435.5	0.9887	mg/L	0.00351	0.9887	mg/L	0.00351	0.35%
Fe 273.955†	1631.1	1.981	mg/L	0.0099	1.981	mg/L	0.0099	0.50%
K 766.490†	20779.9	19.80	mg/L	0.199	19.80	mg/L	0.199	1.01%
Mg 279.077†	2153.1	1.958	mg/L	0.0034	1.958	mg/L	0.0034	0.17%
Mn 257.610†	22249.4	0.9589	mg/L	0.00536	0.9589	mg/L	0.00536	0.56%
Mo 202.031†	7849.8	0.9653	mg/L	0.00275	0.9653	mg/L	0.00275	0.28%
Na 589.592†	257883.4	48.31	mg/L	0.283	48.31	mg/L	0.283	0.59%
Na 330.237†	1305.8	49.65	mg/L	0.270	49.65	mg/L	0.270	0.54%
Ni 231.604†	1432.6	0.9486	mg/L	0.00302	0.9486	mg/L	0.00302	0.32%
Pb 220.353†	12901.9	1.941	mg/L	0.0099	1.941	mg/L	0.0099	0.51%
Sb 206.836†	1788.9	2.059	mg/L	0.0005	2.059	mg/L	0.0005	0.03%
Se 196.026†	1844.1	1.928	mg/L	0.0057	1.928	mg/L	0.0057	0.29%
Si 288.158†	2445.8	2.046	mg/L	0.0042	2.046	mg/L	0.0042	0.20%
Sn 189.927†	2927.5	0.9203	mg/L	0.00165	0.9203	mg/L	0.00165	0.18%
Sr 421.552†	553002.6	0.9632	mg/L	0.00481	0.9632	mg/L	0.00481	0.50%
Ti 334.903†	20321.7	0.9743	mg/L	0.00429	0.9743	mg/L	0.00429	0.44%
Tl 190.801†	1630.5	1.888	mg/L	0.0014	1.888	mg/L	0.0014	0.08%
V 292.402†	205054.1	0.9671	mg/L	0.00416	0.9671	mg/L	0.00416	0.43%
Zn 206.200†	708.6	0.9652	mg/L	0.00510	0.9652	mg/L	0.00510	0.53%

Sequence No.: 18
Sample ID: CB
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 1:50:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1373168.8	105.3	%	0.61				0.58%
ScR 361.383	154722.8	102.9	%	0.56				0.54%
Ag 328.068†	31.0	0.00013	mg/L	0.000207	0.00013	mg/L	0.000207	164.67%
Al 308.215†	6.2	0.00530	mg/L	0.003468	0.00530	mg/L	0.003468	65.40%
As 188.979†	0.5	0.00076	mg/L	0.008405	0.00076	mg/L	0.008405	>999.9%
B 249.677†	5.9	0.00215	mg/L	0.001940	0.00215	mg/L	0.001940	90.24%
Ba 233.527†	-1.9	-0.00079	mg/L	0.000107	-0.00079	mg/L	0.000107	13.55%
Be 313.042†	-13.9	-0.00003	mg/L	0.000045	-0.00003	mg/L	0.000045	169.97%
Ca 317.933†	31.6	0.00210	mg/L	0.001022	0.00210	mg/L	0.001022	48.66%
Cd 228.802†	1.4	0.00006	mg/L	0.000107	0.00006	mg/L	0.000107	186.56%
Co 228.616†	-2.6	-0.00010	mg/L	0.000202	-0.00010	mg/L	0.000202	211.06%
Cr 267.716†	1.8	0.00028	mg/L	0.000930	0.00028	mg/L	0.000930	328.71%
Cu 324.752†	-88.3	-0.00040	mg/L	0.000091	-0.00040	mg/L	0.000091	22.78%
Fe 273.955†	1.6	0.00194	mg/L	0.003894	0.00194	mg/L	0.003894	200.64%
K 766.490†	-56.8	-0.05408	mg/L	0.016680	-0.05408	mg/L	0.016680	30.84%
Mg 279.077†	16.3	0.01478	mg/L	0.002804	0.01478	mg/L	0.002804	18.97%
Mn 257.610†	-5.0	-0.00022	mg/L	0.000076	-0.00022	mg/L	0.000076	34.75%
Mo 202.031†	4.2	0.00051	mg/L	0.000109	0.00051	mg/L	0.000109	21.24%
Na 589.592†	126.2	0.02364	mg/L	0.005037	0.02364	mg/L	0.005037	21.30%
Na 330.237†	13.7	0.5194	mg/L	0.41444	0.5194	mg/L	0.41444	79.79%
Ni 231.604†	-0.2	-0.00014	mg/L	0.001870	-0.00014	mg/L	0.001870	>999.9%
Pb 220.353†	-1.6	-0.00025	mg/L	0.000396	-0.00025	mg/L	0.000396	161.59%
Sb 206.836†	2.7	0.00315	mg/L	0.001395	0.00315	mg/L	0.001395	44.25%
Se 196.026†	3.5	0.00366	mg/L	0.003357	0.00366	mg/L	0.003357	91.81%
Si 288.158†	9.4	0.00787	mg/L	0.001920	0.00787	mg/L	0.001920	24.38%
Sn 189.927†	4.7	0.00148	mg/L	0.000685	0.00148	mg/L	0.000685	46.35%
Sr 421.552†	65.5	0.00011	mg/L	0.000083	0.00011	mg/L	0.000083	72.37%
Ti 334.903†	-20.9	-0.00101	mg/L	0.001687	-0.00101	mg/L	0.001687	167.67%
Tl 190.801†	-0.2	-0.00020	mg/L	0.003982	-0.00020	mg/L	0.003982	>999.9%
V 292.402†	-14.9	-0.00007	mg/L	0.000203	-0.00007	mg/L	0.000203	302.76%
Zn 206.200†	0.5	0.00062	mg/L	0.000673	0.00062	mg/L	0.000673	109.11%

Analysis Begun

Start Time: 7/31/2006 1:56:57 PM
Plasma On Time: 7/31/2006 8:39:17 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0731A.sif
Batch ID:
Results Data Set: PE060731
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: JQ33 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X
Autosampler Location: 21
Date Collected: 7/31/2006 1:56:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 MB1 SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JQ33 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1374063.2	105.4	%	0.33				0.32%
ScR 361.383	157459.0	104.7	%	0.42				0.40%
Ag 328.068†	17.3	0.00007	mg/L	0.000071	0.00014	mg/L	0.000141	100.09%
Al 308.215†	64.5	0.05494	mg/L	0.007268	0.1099	mg/L	0.01454	13.23%
As 188.979†	1.4	0.00195	mg/L	0.005277	0.00389	mg/L	0.010555	271.19%
B 249.677†	-1.7	-0.00060	mg/L	0.001159	-0.00121	mg/L	0.002317	191.56%
Ba 233.527†	0.1	0.00003	mg/L	0.001243	0.00006	mg/L	0.002485	>999.9%
Be 313.042†	-37.7	-0.00007	mg/L	0.000023	-0.00014	mg/L	0.000047	32.57%
Ca 317.933†	1182.8	0.07861	mg/L	0.001381	0.1572	mg/L	0.00276	1.76%
Cd 228.802†	0.9	0.00003	mg/L	0.000075	0.00007	mg/L	0.000151	217.09%
Co 228.616†	5.9	0.00022	mg/L	0.000239	0.00044	mg/L	0.000478	109.12%
Cr 267.716†	3.5	0.00055	mg/L	0.000196	0.00111	mg/L	0.000391	35.39%
Cu 324.752†	-71.0	-0.00032	mg/L	0.000038	-0.00064	mg/L	0.000077	11.97%
Fe 273.955†	7.6	0.00924	mg/L	0.001693	0.01847	mg/L	0.003386	18.33%
K 766.490†	-64.1	-0.06110	mg/L	0.046977	-0.1222	mg/L	0.09395	76.89%
Mg 279.077†	24.7	0.02237	mg/L	0.004866	0.04473	mg/L	0.009732	21.75%
Mn 257.610†	-4.2	-0.00018	mg/L	0.000116	-0.00037	mg/L	0.000233	63.18%
Mo 202.031†	5.4	0.00067	mg/L	0.000027	0.00133	mg/L	0.000054	4.09%
Na 589.592†	105.7	0.01981	mg/L	0.003061	0.03962	mg/L	0.006123	15.45%
Na 330.237†	15.0	0.5687	mg/L	0.61309	1.137	mg/L	1.2262	107.80%
Ni 231.604†	-1.3	-0.00084	mg/L	0.002203	-0.00168	mg/L	0.004406	261.63%
Pb 220.353†	-3.0	-0.00043	mg/L	0.000399	-0.00087	mg/L	0.000798	91.89%
Sb 206.836†	2.4	0.00275	mg/L	0.001647	0.00551	mg/L	0.003294	59.83%
Se 196.026†	1.3	0.00134	mg/L	0.005585	0.00267	mg/L	0.011171	418.01%
Si 288.158†	12.8	0.01067	mg/L	0.005629	0.02134	mg/L	0.011259	52.75%
Sn 189.927†	6.0	0.00190	mg/L	0.001077	0.00379	mg/L	0.002153	56.75%
Sr 421.552†	131.7	0.00023	mg/L	0.000028	0.00046	mg/L	0.000057	12.40%
Ti 334.903†	17.2	0.00082	mg/L	0.001288	0.00165	mg/L	0.002575	156.36%
Tl 190.801†	0.9	0.00101	mg/L	0.002888	0.00201	mg/L	0.005776	287.18%
V 292.402†	51.8	0.00025	mg/L	0.000085	0.00049	mg/L	0.000170	34.56%
Zn 206.200†	9.1	0.01240	mg/L	0.003804	0.02480	mg/L	0.007607	30.67%

Sequence No.: 2
Sample ID: JQ53 MB SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 22
Date Collected: 7/31/2006 2:03:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 MB SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JQ53 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1382761.9	106.1	%	0.54				0.51%
ScR 361.383	158752.8	105.6	%	0.45				0.42%
Ag 328.068†	33.0	0.00013	mg/L	0.000051	0.00027	mg/L	0.000101	37.57%
Al 308.215†	37.7	0.03211	mg/L	0.019394	0.06422	mg/L	0.038788	60.40%
As 188.979†	1.5	0.00210	mg/L	0.003650	0.00420	mg/L	0.007300	173.79%
B 249.677†	-7.5	-0.00271	mg/L	0.001142	-0.00542	mg/L	0.002284	42.16%
Ba 233.527†	-1.5	-0.00062	mg/L	0.000993	-0.00124	mg/L	0.001985	159.89%
Be 313.042†	-51.0	-0.00010	mg/L	0.000079	-0.00019	mg/L	0.000159	81.52%
Ca 317.933†	523.1	0.03477	mg/L	0.000862	0.06953	mg/L	0.001724	2.48%
Cd 228.802†	0.2	0.00001	mg/L	0.000159	0.00001	mg/L	0.000317	>999.9%
Co 228.616†	0.2	0.00001	mg/L	0.000289	0.00002	mg/L	0.000577	>999.9%
Cr 267.716†	4.7	0.00075	mg/L	0.000198	0.00150	mg/L	0.000395	26.30%
Cu 324.752†	-97.1	-0.00044	mg/L	0.000245	-0.00087	mg/L	0.000490	56.02%
Fe 273.955†	8.4	0.01019	mg/L	0.000813	0.02037	mg/L	0.001627	7.99%
K 766.490†	-94.8	-0.09031	mg/L	0.039407	-0.1806	mg/L	0.07881	43.64%
Mg 279.077†	19.6	0.01780	mg/L	0.003571	0.03560	mg/L	0.007143	20.06%
Mn 257.610†	-3.2	-0.00014	mg/L	0.000164	-0.00027	mg/L	0.000327	119.22%
Mo 202.031†	2.7	0.00034	mg/L	0.000476	0.00067	mg/L	0.000952	141.10%
Na 589.592†	108.8	0.02038	mg/L	0.003820	0.04075	mg/L	0.007639	18.74%
Na 330.237†	10.4	0.3948	mg/L	0.01029	0.7896	mg/L	0.02057	2.61%
Ni 231.604†	-0.1	-0.00004	mg/L	0.004322	-0.00009	mg/L	0.008645	>999.9%
Pb 220.353†	-8.4	-0.00126	mg/L	0.001029	-0.00252	mg/L	0.002058	81.78%
Sb 206.836†	2.3	0.00269	mg/L	0.000964	0.00537	mg/L	0.001927	35.89%
Se 196.026†	4.3	0.00453	mg/L	0.006478	0.00905	mg/L	0.012955	143.09%
Si 288.158†	13.2	0.01102	mg/L	0.004913	0.02203	mg/L	0.009825	44.60%
Sn 189.927†	7.5	0.00237	mg/L	0.000153	0.00474	mg/L	0.000307	6.47%
Sr 421.552†	183.4	0.00032	mg/L	0.000079	0.00064	mg/L	0.000158	24.79%
Ti 334.903†	0.6	0.00003	mg/L	0.001229	0.00005	mg/L	0.002458	>999.9%
Tl 190.801†	-4.4	-0.00507	mg/L	0.002556	-0.01014	mg/L	0.005112	50.40%
V 292.402†	43.6	0.00021	mg/L	0.000058	0.00042	mg/L	0.000115	27.53%
Zn 206.200†	2.5	0.00334	mg/L	0.000880	0.00669	mg/L	0.001761	26.32%

Sequence No.: 3
Sample ID: JQ53 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

rerun 5Y

Autosampler Location: 23
Date Collected: 7/31/2006 2:09:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 A SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JQ53 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1388919.4	106.5	%	0.35				0.33%
ScR 361.383	164083.4	109.1	%	0.30				0.28%
Ag 328.068†	-3786.7	-0.00144	mg/L	0.000348	-0.00287	mg/L	0.000696	24.24%
Al 308.215†	251220.4	214.1	mg/L	0.37	428.2	mg/L	0.75	0.17%
As 188.979†	70.2	0.05154	mg/L	0.007548	0.1031	mg/L	0.01510	14.65%
B 249.677†	41.8	0.01216	mg/L	0.002054	0.02433	mg/L	0.004109	16.89%
Ba 233.527†	1439.0	0.5758	mg/L	0.00256	1.152	mg/L	0.0051	0.44%
Be 313.042†	2182.9	0.00309	mg/L	0.000011	0.00618	mg/L	0.000022	0.36%
Ca 317.933†	458790.3	30.49	mg/L	0.074	60.98	mg/L	0.147	0.24%
Cd 228.802†	69.9	-0.00078	mg/L	0.000327	-0.00157	mg/L	0.000654	41.82%
Co 228.616†	3735.6	0.1157	mg/L	0.00025	0.2313	mg/L	0.00049	0.21%
Cr 267.716†	1910.4	0.3195	mg/L	0.00057	0.6391	mg/L	0.00114	0.18%
Cu 324.752†	90417.1	0.4372	mg/L	0.00120	0.8744	mg/L	0.00241	0.28%
Fe 273.955†	284386.2	345.9	mg/L	1.45	691.8	mg/L	2.90	0.42%
K 766.490†	5794.6	5.522	mg/L	0.0302	11.04	mg/L	0.060	0.55%
Mg 279.077†	96073.9	86.94	mg/L	0.398	173.9	mg/L	0.80	0.46%
Mn 257.610†	94446.5	4.065	mg/L	0.0109	8.131	mg/L	0.0217	0.27%
Mo 202.031†	22.1	0.00539	mg/L	0.000597	0.01078	mg/L	0.001195	11.08%
Na 589.592†	5572.2	1.044	mg/L	0.0025	2.088	mg/L	0.0050	0.24%
Na 330.237†	-27.8	1.286	mg/L	0.3021	2.571	mg/L	0.6041	23.49%
Ni 231.604†	488.9	0.3233	mg/L	0.00037	0.6467	mg/L	0.00074	0.11%
Pb 220.353†	250.8	0.07926	mg/L	0.000716	0.1585	mg/L	0.00143	0.90%
Sb 206.836†	20.2	0.03019	mg/L	0.005504	0.06038	mg/L	0.011007	18.23%
Se 196.026†	-83.7	-0.09217	mg/L	0.006591	-0.1843	mg/L	0.01318	7.15%
Si 288.158†	1927.4	1.611	mg/L	0.0017	3.223	mg/L	0.0033	0.10%
Sn 189.927†	-25.8	-0.00716	mg/L	0.001494	-0.01432	mg/L	0.002988	20.87%
Sr 421.552†	52953.6	0.09223	mg/L	0.000108	0.1845	mg/L	0.00022	0.12%
Ti 334.903†	230254.4	11.05	mg/L	0.020	22.11	mg/L	0.040	0.18%
Tl 190.801†	-22.9	-0.03838	mg/L	0.002938	-0.07677	mg/L	0.005875	7.65%
V 292.402†	144951.0	0.6762	mg/L	0.00132	1.352	mg/L	0.0026	0.19%
Zn 206.200†	453.3	0.6091	mg/L	0.00333	1.218	mg/L	0.0067	0.55%

Sequence No.: 4
Sample ID: JQ53 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

rerun 5x

Autosampler Location: 24
Date Collected: 7/31/2006 2:16:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 B SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JQ53 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1376186.7	105.6	%	0.58				0.55%
ScR 361.383	162063.9	107.8	%	0.98				0.91%
Ag 328.068†	-3982.2	-0.00163	mg/L	0.000300	-0.00326	mg/L	0.000600	18.43%
Al 308.215†	291415.0	248.4	mg/L	0.94	496.7	mg/L	1.87	0.38%
As 188.979†	70.9	0.04820	mg/L	0.009316	0.09641	mg/L	0.018632	19.33%
B 249.677†	55.7	0.01713	mg/L	0.000532	0.03426	mg/L	0.001065	3.11%
Ba 233.527†	2653.9	1.082	mg/L	0.0097	2.164	mg/L	0.0194	0.90%
Be 313.042†	2774.8	0.00415	mg/L	0.000061	0.00830	mg/L	0.000121	1.46%
Ca 317.933†	471692.3	31.35	mg/L	0.070	62.70	mg/L	0.139	0.22%
Cd 228.802†	75.5	-0.00076	mg/L	0.000039	-0.00152	mg/L	0.000079	5.19%
Co 228.616†	3576.3	0.1090	mg/L	0.00067	0.2180	mg/L	0.00133	0.61%
Cr 267.716†	2004.7	0.3366	mg/L	0.00504	0.6732	mg/L	0.01007	1.50%
Cu 324.752†	66496.7	0.3311	mg/L	0.00017	0.6621	mg/L	0.00033	0.05%
Fe 273.955†	299314.2	364.0	mg/L	2.93	728.1	mg/L	5.86	0.81%
K 766.490†	6855.6	6.533	mg/L	0.0553	13.07	mg/L	0.111	0.85%
Mg 279.077†	89323.7	80.80	mg/L	0.194	161.6	mg/L	0.39	0.24%
Mn 257.610†	118485.5	5.101	mg/L	0.0286	10.20	mg/L	0.057	0.56%
Mo 202.031†	18.6	0.00586	mg/L	0.000572	0.01173	mg/L	0.001145	9.76%
Na 589.592†	5101.3	0.9557	mg/L	0.00581	1.911	mg/L	0.0116	0.61%
Na 330.237†	-40.0	0.8891	mg/L	0.06985	1.778	mg/L	0.1397	7.86%
Ni 231.604†	525.0	0.3472	mg/L	0.00727	0.6944	mg/L	0.01455	2.10%
Pb 220.353†	247.7	0.08547	mg/L	0.001167	0.1709	mg/L	0.00233	1.37%
Sb 206.836†	21.4	0.03185	mg/L	0.003760	0.06371	mg/L	0.007521	11.80%
Se 196.026†	-105.8	-0.1165	mg/L	0.00565	-0.2329	mg/L	0.01130	4.85%
Si 288.158†	2283.0	1.909	mg/L	0.0124	3.817	mg/L	0.0249	0.65%
Sn 189.927†	-21.5	-0.00558	mg/L	0.002636	-0.01116	mg/L	0.005272	47.25%
Sr 421.552†	73662.4	0.1283	mg/L	0.00053	0.2566	mg/L	0.00105	0.41%
Ti 334.903†	238972.9	11.47	mg/L	0.047	22.94	mg/L	0.093	0.41%
Tl 190.801†	-26.0	-0.04245	mg/L	0.006324	-0.08490	mg/L	0.012648	14.90%
V 292.402†	153792.0	0.7176	mg/L	0.00125	1.435	mg/L	0.0025	0.17%
Zn 206.200†	541.3	0.7285	mg/L	0.00324	1.457	mg/L	0.0065	0.44%

Sequence No.: 5
Sample ID: JQ53 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 7/31/2006 2:22:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 C SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JQ53 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1377598.9	105.7	%	1.15				1.09%
ScR 361.383	162163.6	107.8	%	0.59				0.55%
Ag 328.068†	-2956.5	-0.00097	mg/L	0.000597	-0.00194	mg/L	0.001194	61.63%
Al 308.215†	226106.7	192.7	mg/L	0.21	385.4	mg/L	0.42	0.11%
As 188.979†	60.2	0.04379	mg/L	0.001746	0.08757	mg/L	0.003492	3.99%
B 249.677†	37.0	0.01095	mg/L	0.002489	0.02190	mg/L	0.004978	22.73%
Ba 233.527†	2506.2	1.025	mg/L	0.0089	2.050	mg/L	0.0178	0.87%
Be 313.042†	2141.1	0.00323	mg/L	0.000029	0.00646	mg/L	0.000059	0.91%
Ca 317.933†	397631.0	26.43	mg/L	0.038	52.85	mg/L	0.075	0.14%
Cd 228.802†	55.9	-0.00087	mg/L	0.000106	-0.00175	mg/L	0.000211	12.09%
Co 228.616†	3003.0	0.09207	mg/L	0.001438	0.1841	mg/L	0.00288	1.56%
Cr 267.716†	1675.3	0.2789	mg/L	0.00247	0.5577	mg/L	0.00493	0.88%
Cu 324.752†	59812.8	0.2953	mg/L	0.00303	0.5906	mg/L	0.00605	1.02%
Fe 273.955†	244945.2	297.9	mg/L	1.46	595.8	mg/L	2.92	0.49%
K 766.490†	5430.9	5.175	mg/L	0.0445	10.35	mg/L	0.089	0.86%
Mg 279.077†	69815.9	63.14	mg/L	0.031	126.3	mg/L	0.06	0.05%
Mn 257.610†	217993.6	9.388	mg/L	0.0234	18.78	mg/L	0.047	0.25%
Mo 202.031†	28.0	0.00621	mg/L	0.000210	0.01242	mg/L	0.000420	3.38%
Na 589.592†	4193.4	0.7856	mg/L	0.00280	1.571	mg/L	0.0056	0.36%
Na 330.237†	-23.7	1.026	mg/L	0.2807	2.052	mg/L	0.5613	27.36%
Ni 231.604†	403.1	0.2666	mg/L	0.00231	0.5332	mg/L	0.00462	0.87%
Pb 220.353†	269.4	0.07793	mg/L	0.000127	0.1559	mg/L	0.00025	0.16%
Sb 206.836†	17.2	0.02529	mg/L	0.005117	0.05057	mg/L	0.010234	20.23%
Se 196.026†	-87.1	-0.1018	mg/L	0.00923	-0.2036	mg/L	0.01846	9.07%
Si 288.158†	2541.0	2.124	mg/L	0.0203	4.248	mg/L	0.0407	0.96%
Sn 189.927†	-22.6	-0.00588	mg/L	0.001557	-0.01177	mg/L	0.003113	26.46%
Sr 421.552†	60037.0	0.1046	mg/L	0.00014	0.2091	mg/L	0.00027	0.13%
Ti 334.903†	192944.1	9.262	mg/L	0.0140	18.52	mg/L	0.028	0.15%
Tl 190.801†	-22.5	-0.03591	mg/L	0.000318	-0.07182	mg/L	0.000635	0.88%
V 292.402†	114705.6	0.5360	mg/L	0.00601	1.072	mg/L	0.0120	1.12%
Zn 206.200†	467.0	0.6290	mg/L	0.00313	1.258	mg/L	0.0063	0.50%

Sequence No.: 6
Sample ID: JQ53 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

rerun 5Y

Autosampler Location: 26
Date Collected: 7/31/2006 2:29:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 D SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JQ53 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1393781.8	106.9	%	0.44				0.41%
ScR 361.383	165512.2	110.1	%	0.25				0.23%
Ag 328.068†	-3726.3	-0.00134	mg/L	0.000263	-0.00267	mg/L	0.000525	19.63%
Al 308.215†	298743.9	254.6	mg/L	0.82	509.2	mg/L	1.64	0.32%
As 188.979†	73.5	0.04840	mg/L	0.004421	0.09680	mg/L	0.008843	9.14%
B 249.677†	63.9	0.01984	mg/L	0.001005	0.03968	mg/L	0.002010	5.07%
Ba 233.527†	2761.5	1.128	mg/L	0.0010	2.256	mg/L	0.0020	0.09%
Be 313.042†	3002.2	0.00457	mg/L	0.000057	0.00913	mg/L	0.000115	1.26%
Ca 317.933†	574224.1	38.16	mg/L	0.134	76.33	mg/L	0.269	0.35%
Cd 228.802†	69.6	-0.00088	mg/L	0.000078	-0.00175	mg/L	0.000155	8.87%
Co 228.616†	3818.8	0.1167	mg/L	0.00085	0.2334	mg/L	0.00170	0.73%
Cr 267.716†	2186.4	0.3654	mg/L	0.00106	0.7307	mg/L	0.00212	0.29%
Cu 324.752†	75199.8	0.3689	mg/L	0.00058	0.7378	mg/L	0.00117	0.16%
Fe 273.955†	288430.4	350.8	mg/L	1.89	701.6	mg/L	3.78	0.54%
K 766.490†	8443.3	8.046	mg/L	0.0467	16.09	mg/L	0.093	0.58%
Mg 279.077†	79324.3	71.73	mg/L	0.150	143.5	mg/L	0.30	0.21%
Mn 257.610†	147100.8	6.333	mg/L	0.0154	12.67	mg/L	0.031	0.24%
Mo 202.031†	18.5	0.00621	mg/L	0.000110	0.01242	mg/L	0.000220	1.77%
Na 589.592†	6485.0	1.215	mg/L	0.0110	2.430	mg/L	0.0219	0.90%
Na 330.237†	-36.1	1.229	mg/L	0.3310	2.458	mg/L	0.6620	26.93%
Ni 231.604†	505.6	0.3344	mg/L	0.00356	0.6687	mg/L	0.00712	1.07%
Pb 220.353†	226.2	0.08348	mg/L	0.001971	0.1670	mg/L	0.00394	2.36%
Sb 206.836†	24.4	0.03577	mg/L	0.002560	0.07154	mg/L	0.005120	7.16%
Se 196.026†	-92.1	-0.1035	mg/L	0.00575	-0.2069	mg/L	0.01150	5.56%
Si 288.158†	2798.4	2.339	mg/L	0.0028	4.678	mg/L	0.0056	0.12%
Sn 189.927†	-24.6	-0.00528	mg/L	0.002336	-0.01055	mg/L	0.004673	44.29%
Sr 421.552†	79160.7	0.1379	mg/L	0.00046	0.2758	mg/L	0.00092	0.33%
Ti 334.903†	260246.1	12.49	mg/L	0.041	24.99	mg/L	0.082	0.33%
Tl 190.801†	-24.4	-0.04149	mg/L	0.004198	-0.08298	mg/L	0.008396	10.12%
V 292.402†	155948.8	0.7277	mg/L	0.00133	1.455	mg/L	0.0027	0.18%
Zn 206.200†	553.8	0.7460	mg/L	0.00137	1.492	mg/L	0.0027	0.18%

Sequence No.: 7
Sample ID: JQ33 ADUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 27
Date Collected: 7/31/2006 2:36:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 ADUP SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ33 ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1410426.1	108.2	%	0.36				0.33%
ScR 361.383	165105.2	109.8	%	1.05				0.96%
Ag 328.068†	-2051.9	-0.00006	mg/L	0.000098	-0.00012	mg/L	0.000197	159.33%
Al 308.215†	208015.3	177.3	mg/L	0.68	354.5	mg/L	1.36	0.38%
As 188.979†	57.5	0.04266	mg/L	0.004109	0.08531	mg/L	0.008218	9.63%
B 249.677†	28.2	0.00770	mg/L	0.003059	0.01541	mg/L	0.006117	39.71%
Ba 233.527†	2159.2	0.8866	mg/L	0.00663	1.773	mg/L	0.0133	0.75%
Be 313.042†	1948.5	0.00288	mg/L	0.000020	0.00576	mg/L	0.000040	0.69%
Ca 317.933†	578591.6	38.45	mg/L	0.082	76.91	mg/L	0.165	0.21%
Cd 228.802†	83.2	0.00112	mg/L	0.000044	0.00224	mg/L	0.000088	3.91%
Co 228.616†	2758.8	0.08613	mg/L	0.000573	0.1723	mg/L	0.00115	0.66%
Cr 267.716†	1052.6	0.1786	mg/L	0.00022	0.3572	mg/L	0.00044	0.12%
Cu 324.752†	47944.0	0.2338	mg/L	0.00111	0.4675	mg/L	0.00222	0.47%
Fe 273.955†	171587.9	208.7	mg/L	0.89	417.4	mg/L	1.78	0.43%
K 766.490†	5899.0	5.621	mg/L	0.0430	11.24	mg/L	0.086	0.77%
Mg 279.077†	38954.4	35.20	mg/L	0.016	70.40	mg/L	0.032	0.05%
Mn 257.610†	82278.1	3.542	mg/L	0.0135	7.085	mg/L	0.0270	0.38%
Mo 202.031†	17.8	0.00528	mg/L	0.000402	0.01055	mg/L	0.000805	7.63%
Na 589.592†	24008.2	4.498	mg/L	0.0300	8.996	mg/L	0.0600	0.67%
Na 330.237†	84.6	4.821	mg/L	0.0531	9.642	mg/L	0.1062	1.10%
Ni 231.604†	228.2	0.1509	mg/L	0.00192	0.3019	mg/L	0.00385	1.27%
Pb 220.353†	938.2	0.1753	mg/L	0.00053	0.3507	mg/L	0.00105	0.30%
Sb 206.836†	13.7	0.02215	mg/L	0.002506	0.04430	mg/L	0.005012	11.31%
Se 196.026†	-58.5	-0.06522	mg/L	0.005233	-0.1304	mg/L	0.01047	8.02%
Si 288.158†	2798.5	2.339	mg/L	0.0137	4.678	mg/L	0.0273	0.58%
Sn 189.927†	-30.6	-0.00536	mg/L	0.004035	-0.01071	mg/L	0.008070	75.33%
Sr 421.552†	276357.3	0.4814	mg/L	0.00171	0.9627	mg/L	0.00343	0.36%
Ti 334.903†	177235.9	8.508	mg/L	0.0298	17.02	mg/L	0.060	0.35%
Tl 190.801†	-17.7	-0.02954	mg/L	0.002420	-0.05908	mg/L	0.004840	8.19%
V 292.402†	112459.3	0.5242	mg/L	0.00254	1.048	mg/L	0.0051	0.48%
Zn 206.200†	543.1	0.7353	mg/L	0.00851	1.471	mg/L	0.0170	1.16%

Sequence No.: 8
Sample ID: JQ33 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 28
Date Collected: 7/31/2006 2:42:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 A SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ33 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1418347.0	108.8	%	0.35				0.32%
ScR 361.383	166318.7	110.6	%	1.17				1.06%
Ag 328.068†	-2105.7	-0.00007	mg/L	0.000338	-0.00014	mg/L	0.000676	475.94%
Al 308.215†	212595.0	181.2	mg/L	1.48	362.4	mg/L	2.96	0.82%
As 188.979†	52.3	0.03352	mg/L	0.003840	0.06704	mg/L	0.007679	11.46%
B 249.677†	28.2	0.00753	mg/L	0.000418	0.01505	mg/L	0.000835	5.55%
Ba 233.527†	2220.2	0.9117	mg/L	0.00843	1.823	mg/L	0.0169	0.92%
Be 313.042†	1975.7	0.00291	mg/L	0.000055	0.00581	mg/L	0.000110	1.89%
Ca 317.933†	595322.2	39.56	mg/L	0.344	79.13	mg/L	0.689	0.87%
Cd 228.802†	74.0	0.00071	mg/L	0.000150	0.00141	mg/L	0.000301	21.30%
Co 228.616†	2864.1	0.08924	mg/L	0.000894	0.1785	mg/L	0.00179	1.00%
Cr 267.716†	1080.2	0.1833	mg/L	0.00194	0.3665	mg/L	0.00387	1.06%
Cu 324.752†	48484.3	0.2366	mg/L	0.00075	0.4732	mg/L	0.00150	0.32%
Fe 273.955†	175883.8	213.9	mg/L	1.60	427.8	mg/L	3.20	0.75%
K 766.490†	5991.0	5.709	mg/L	0.0749	11.42	mg/L	0.150	1.31%
Mg 279.077†	39892.2	36.05	mg/L	0.272	72.09	mg/L	0.543	0.75%
Mn 257.610†	84226.1	3.626	mg/L	0.0292	7.252	mg/L	0.0585	0.81%
Mo 202.031†	15.2	0.00503	mg/L	0.000283	0.01006	mg/L	0.000567	5.64%
Na 589.592†	24497.4	4.590	mg/L	0.0248	9.179	mg/L	0.0497	0.54%
Na 330.237†	80.9	4.790	mg/L	0.1810	9.579	mg/L	0.3620	3.78%
Ni 231.604†	227.4	0.1504	mg/L	0.00095	0.3008	mg/L	0.00190	0.63%
Pb 220.353†	742.4	0.1467	mg/L	0.00173	0.2933	mg/L	0.00347	1.18%
Sb 206.836†	16.8	0.02613	mg/L	0.003688	0.05227	mg/L	0.007376	14.11%
Se 196.026†	-60.4	-0.06732	mg/L	0.006735	-0.1346	mg/L	0.01347	10.00%
Si 288.158†	6357.5	5.313	mg/L	0.0427	10.63	mg/L	0.085	0.80%
Sn 189.927†	-25.6	-0.00370	mg/L	0.001078	-0.00740	mg/L	0.002156	29.14%
Sr 421.552†	288393.3	0.5023	mg/L	0.00403	1.005	mg/L	0.0081	0.80%
Ti 334.903†	186378.8	8.947	mg/L	0.0755	17.89	mg/L	0.151	0.84%
Tl 190.801†	-15.6	-0.02756	mg/L	0.004517	-0.05512	mg/L	0.009034	16.39%
V 292.402†	116102.0	0.5411	mg/L	0.00169	1.082	mg/L	0.0034	0.31%
Zn 206.200†	519.0	0.7022	mg/L	0.00893	1.404	mg/L	0.0179	1.27%

Sequence No.: 9
Sample ID: JQ33 ASPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 7/31/2006 2:49:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 ASPK SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ33 ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1373893.3	105.4	%	0.23				0.21%
ScR 361.383	161567.7	107.4	%	0.25				0.24%
Ag 328.068†	111890.9	0.4624	mg/L	0.00127	0.9249	mg/L	0.00254	0.27%
Al 308.215†	214922.6	183.2	mg/L	0.07	366.3	mg/L	0.13	0.04%
As 188.979†	1290.9	1.816	mg/L	0.0170	3.632	mg/L	0.0339	0.93%
B 249.677†	21.2	0.00587	mg/L	0.001633	0.01174	mg/L	0.003266	27.83%
Ba 233.527†	6568.2	2.728	mg/L	0.0108	5.455	mg/L	0.0216	0.40%
Be 313.042†	248124.0	0.4705	mg/L	0.00116	0.9410	mg/L	0.00232	0.25%
Ca 317.933†	728456.7	48.41	mg/L	0.083	96.83	mg/L	0.165	0.17%
Cd 228.802†	11557.5	0.4640	mg/L	0.00147	0.9280	mg/L	0.00294	0.32%
Co 228.616†	14390.5	0.5191	mg/L	0.00293	1.038	mg/L	0.0059	0.56%
Cr 267.716†	3835.6	0.6247	mg/L	0.00302	1.249	mg/L	0.0060	0.48%
Cu 324.752†	156175.5	0.7221	mg/L	0.00152	1.444	mg/L	0.0030	0.21%
Fe 273.955†	175884.9	213.9	mg/L	0.26	427.8	mg/L	0.53	0.12%
K 766.490†	15775.5	15.03	mg/L	0.024	30.07	mg/L	0.048	0.16%
Mg 279.077†	49342.7	44.62	mg/L	0.036	89.25	mg/L	0.072	0.08%
Mn 257.610†	92053.4	3.964	mg/L	0.0007	7.927	mg/L	0.0013	0.02%
Mo 202.031†	20.8	0.00556	mg/L	0.000211	0.01112	mg/L	0.000422	3.80%
Na 589.592†	75545.3	14.15	mg/L	0.007	28.31	mg/L	0.015	0.05%
Na 330.237†	343.2	14.52	mg/L	0.090	29.04	mg/L	0.180	0.62%
Ni 231.604†	887.3	0.5868	mg/L	0.00323	1.174	mg/L	0.0065	0.55%
Pb 220.353†	12880.2	1.972	mg/L	0.0036	3.944	mg/L	0.0071	0.18%
Sb 206.836†	20.4	0.02452	mg/L	0.001690	0.04903	mg/L	0.003381	6.89%
Se 196.026†	1669.8	1.742	mg/L	0.0041	3.484	mg/L	0.0082	0.24%
Si 288.158†	3778.8	3.159	mg/L	0.0234	6.318	mg/L	0.0468	0.74%
Sn 189.927†	-38.9	-0.00640	mg/L	0.001010	-0.01280	mg/L	0.002021	15.79%
Sr 421.552†	557015.3	0.9702	mg/L	0.00041	1.940	mg/L	0.0008	0.04%
Ti 334.903†	183723.4	8.819	mg/L	0.0028	17.64	mg/L	0.006	0.03%
Tl 190.801†	1474.0	1.698	mg/L	0.0031	3.396	mg/L	0.0061	0.18%
V 292.402†	209987.6	0.9839	mg/L	0.00263	1.968	mg/L	0.0053	0.27%
Zn 206.200†	898.8	1.220	mg/L	0.0148	2.440	mg/L	0.0295	1.21%

Sequence No.: 10
Sample ID: JQ33 MB1SPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 7/31/2006 2:56:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 MB1SPK SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ33 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1368446.4	105.0	%	0.35				0.33%
ScR 361.383	159059.8	105.8	%	0.47				0.44%
Ag 328.068†	116329.3	0.4720	mg/L	0.00099	0.9441	mg/L	0.00199	0.21%
Al 308.215†	2339.7	1.986	mg/L	0.0143	3.972	mg/L	0.0286	0.72%
As 188.979†	1332.7	1.918	mg/L	0.0169	3.835	mg/L	0.0339	0.88%
B 249.677†	-9.2	-0.00245	mg/L	0.001108	-0.00490	mg/L	0.002215	45.21%
Ba 233.527†	4652.9	1.943	mg/L	0.0134	3.886	mg/L	0.0268	0.69%
Be 313.042†	259296.6	0.4926	mg/L	0.00282	0.9851	mg/L	0.00564	0.57%
Ca 317.933†	147381.3	9.795	mg/L	0.0549	19.59	mg/L	0.110	0.56%
Cd 228.802†	12054.0	0.4862	mg/L	0.00370	0.9724	mg/L	0.00741	0.76%
Co 228.616†	12533.9	0.4672	mg/L	0.00206	0.9343	mg/L	0.00411	0.44%
Cr 267.716†	3013.4	0.4828	mg/L	0.00298	0.9656	mg/L	0.00595	0.62%
Cu 324.752†	105771.1	0.4770	mg/L	0.00153	0.9541	mg/L	0.00305	0.32%
Fe 273.955†	1657.6	2.015	mg/L	0.0185	4.030	mg/L	0.0369	0.92%
K 766.490†	10245.8	9.763	mg/L	0.1099	19.53	mg/L	0.220	1.13%
Mg 279.077†	10929.6	9.919	mg/L	0.0521	19.84	mg/L	0.104	0.52%
Mn 257.610†	11384.4	0.4906	mg/L	0.00264	0.9813	mg/L	0.00527	0.54%
Mo 202.031†	16.4	0.00182	mg/L	0.000246	0.00364	mg/L	0.000492	13.51%
Na 589.592†	52707.9	9.875	mg/L	0.0844	19.75	mg/L	0.169	0.85%
Na 330.237†	279.8	10.43	mg/L	0.810	20.86	mg/L	1.620	7.76%
Ni 231.604†	719.5	0.4758	mg/L	0.00506	0.9517	mg/L	0.01011	1.06%
Pb 220.353†	12761.3	1.919	mg/L	0.0099	3.838	mg/L	0.0199	0.52%
Sb 206.836†	8.7	0.00387	mg/L	0.001255	0.00773	mg/L	0.002511	32.47%
Se 196.026†	1853.0	1.938	mg/L	0.0120	3.875	mg/L	0.0240	0.62%
Si 288.158†	7.7	0.00748	mg/L	0.002853	0.01495	mg/L	0.005707	38.16%
Sn 189.927†	-13.6	-0.00267	mg/L	0.001312	-0.00535	mg/L	0.002625	49.07%
Sr 421.552†	276084.8	0.4809	mg/L	0.00272	0.9618	mg/L	0.00544	0.57%
Ti 334.903†	45.2	0.00206	mg/L	0.001113	0.00413	mg/L	0.002225	53.94%
Tl 190.801†	1623.8	1.881	mg/L	0.0115	3.762	mg/L	0.0229	0.61%
V 292.402†	102233.5	0.4821	mg/L	0.00134	0.9642	mg/L	0.00267	0.28%
Zn 206.200†	363.7	0.4957	mg/L	0.00248	0.9915	mg/L	0.00496	0.50%

Sequence No.: 11
Sample ID: CV 5
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 3:02:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1345823.9	103.2	%	0.68				0.66%
ScR 361.383	158111.5	105.1	%	0.55				0.52%
Ag 328.068†	233023.7	0.9454	mg/L	0.00772	0.9454	mg/L	0.00772	0.82%
Al 308.215†	2333.3	1.953	mg/L	0.0227	1.953	mg/L	0.0227	1.16%
As 188.979†	1333.0	1.915	mg/L	0.0164	1.915	mg/L	0.0164	0.86%
B 249.677†	2641.1	0.9645	mg/L	0.00872	0.9645	mg/L	0.00872	0.90%
Ba 233.527†	2412.1	1.007	mg/L	0.0061	1.007	mg/L	0.0061	0.61%
Be 313.042†	509814.8	0.9684	mg/L	0.00305	0.9684	mg/L	0.00305	0.32%
Ca 317.933†	30063.6	1.998	mg/L	0.0082	1.998	mg/L	0.0082	0.41%
Cd 228.802†	24469.5	0.9899	mg/L	0.00759	0.9899	mg/L	0.00759	0.77%
Co 228.616†	25355.6	0.9444	mg/L	0.00905	0.9444	mg/L	0.00905	0.96%
Cr 267.716†	6049.8	0.9716	mg/L	0.00485	0.9716	mg/L	0.00485	0.50%
Cu 324.752†	219003.1	0.9868	mg/L	0.00884	0.9868	mg/L	0.00884	0.90%
Fe 273.955†	1696.9	2.061	mg/L	0.0124	2.061	mg/L	0.0124	0.60%
K 766.490†	20627.8	19.66	mg/L	0.165	19.66	mg/L	0.165	0.84%
Mg 279.077†	2183.9	1.986	mg/L	0.0184	1.986	mg/L	0.0184	0.93%
Mn 257.610†	22872.4	0.9857	mg/L	0.00646	0.9857	mg/L	0.00646	0.66%
Mo 202.031†	7796.7	0.9588	mg/L	0.00768	0.9588	mg/L	0.00768	0.80%
Na 589.592†	256255.2	48.01	mg/L	0.211	48.01	mg/L	0.211	0.44%
Na 330.237†	1313.6	49.93	mg/L	0.526	49.93	mg/L	0.526	1.05%
Ni 231.604†	1491.6	0.9876	mg/L	0.00689	0.9876	mg/L	0.00689	0.70%
Pb 220.353†	12831.6	1.930	mg/L	0.0101	1.930	mg/L	0.0101	0.52%
Sb 206.836†	1782.9	2.051	mg/L	0.0214	2.051	mg/L	0.0214	1.04%
Se 196.026†	1829.4	1.912	mg/L	0.0136	1.912	mg/L	0.0136	0.71%
Si 288.158†	2487.3	2.081	mg/L	0.0078	2.081	mg/L	0.0078	0.37%
Sn 189.927†	2903.2	0.9127	mg/L	0.00742	0.9127	mg/L	0.00742	0.81%
Sr 421.552†	552624.7	0.9626	mg/L	0.00451	0.9626	mg/L	0.00451	0.47%
Ti 334.903†	20493.2	0.9825	mg/L	0.00511	0.9825	mg/L	0.00511	0.52%
Tl 190.801†	1625.5	1.882	mg/L	0.0137	1.882	mg/L	0.0137	0.73%
V 292.402†	204320.4	0.9638	mg/L	0.00774	0.9638	mg/L	0.00774	0.80%
Zn 206.200†	752.2	1.025	mg/L	0.0063	1.025	mg/L	0.0063	0.62%

Sequence No.: 12
Sample ID: CB 5
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 3:09:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1362692.5	104.5	%	0.37				0.35%
ScR 361.383	154980.7	103.1	%	0.46				0.45%
Ag 328.068†	46.0	0.00019	mg/L	0.000223	0.00019	mg/L	0.000223	119.31%
Al 308.215†	29.4	0.02506	mg/L	0.009127	0.02506	mg/L	0.009127	36.42%
As 188.979†	1.5	0.00214	mg/L	0.000851	0.00214	mg/L	0.000851	39.72%
B 249.677†	0.0	0.00001	mg/L	0.000741	0.00001	mg/L	0.000741	>999.9%
Ba 233.527†	-0.1	-0.00003	mg/L	0.000308	-0.00003	mg/L	0.000308	>999.9%
Be 313.042†	-39.2	-0.00007	mg/L	0.000077	-0.00007	mg/L	0.000077	102.56%
Ca 317.933†	-8.6	-0.00057	mg/L	0.001368	-0.00057	mg/L	0.001368	239.33%
Cd 228.802†	1.2	0.00005	mg/L	0.000066	0.00005	mg/L	0.000066	144.37%
Co 228.616†	3.9	0.00015	mg/L	0.000055	0.00015	mg/L	0.000055	37.10%
Cr 267.716†	6.3	0.00101	mg/L	0.000474	0.00101	mg/L	0.000474	46.95%
Cu 324.752†	-150.2	-0.00068	mg/L	0.000231	-0.00068	mg/L	0.000231	34.08%
Fe 273.955†	0.0	0.00003	mg/L	0.002466	0.00003	mg/L	0.002466	>999.9%
K 766.490†	-22.0	-0.02095	mg/L	0.019375	-0.02095	mg/L	0.019375	92.47%
Mg 279.077†	12.0	0.01087	mg/L	0.003820	0.01087	mg/L	0.003820	35.16%
Mn 257.610†	-6.6	-0.00029	mg/L	0.000151	-0.00029	mg/L	0.000151	52.71%
Mo 202.031†	3.4	0.00041	mg/L	0.000212	0.00041	mg/L	0.000212	51.25%
Na 589.592†	24.0	0.00449	mg/L	0.005841	0.00449	mg/L	0.005841	130.10%
Na 330.237†	19.8	0.7550	mg/L	0.22690	0.7550	mg/L	0.22690	30.05%
Ni 231.604†	1.5	0.00099	mg/L	0.002906	0.00099	mg/L	0.002906	292.12%
Pb 220.353†	1.3	0.00021	mg/L	0.000224	0.00021	mg/L	0.000224	106.67%
Sb 206.836†	3.6	0.00422	mg/L	0.000879	0.00422	mg/L	0.000879	20.84%
Se 196.026†	2.1	0.00218	mg/L	0.001430	0.00218	mg/L	0.001430	65.54%
Si 288.158†	12.5	0.01048	mg/L	0.001244	0.01048	mg/L	0.001244	11.87%
Sn 189.927†	9.4	0.00296	mg/L	0.001385	0.00296	mg/L	0.001385	46.79%
Sr 421.552†	85.2	0.00015	mg/L	0.000081	0.00015	mg/L	0.000081	54.55%
Ti 334.903†	-4.6	-0.00022	mg/L	0.000701	-0.00022	mg/L	0.000701	318.28%
Tl 190.801†	1.9	0.00225	mg/L	0.005507	0.00225	mg/L	0.005507	244.99%
V 292.402†	18.3	0.00009	mg/L	0.000123	0.00009	mg/L	0.000123	132.40%
Zn 206.200†	-1.3	-0.00183	mg/L	0.002716	-0.00183	mg/L	0.002716	148.12%

Sequence No.: 13
Sample ID: JQ33 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 7/31/2006 3:15:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 MB1 SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JQ33 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1382582.8	106.1	%	0.30				0.29%
ScR 361.383	160281.6	106.6	%	0.30				0.28%
Ag 328.068†	8.9	0.00004	mg/L	0.000166	0.00007	mg/L	0.000332	453.38%
Al 308.215†	60.4	0.05146	mg/L	0.014074	0.1029	mg/L	0.02815	27.35%
As 188.979†	-1.2	-0.00180	mg/L	0.005269	-0.00361	mg/L	0.010538	292.19%
B 249.677†	-6.3	-0.00229	mg/L	0.000653	-0.00458	mg/L	0.001307	28.51%
Ba 233.527†	1.4	0.00059	mg/L	0.001750	0.00118	mg/L	0.003500	297.49%
Be 313.042†	-36.6	-0.00007	mg/L	0.000036	-0.00014	mg/L	0.000071	51.00%
Ca 317.933†	1164.1	0.07736	mg/L	0.000555	0.1547	mg/L	0.00111	0.72%
Cd 228.802†	-1.3	-0.00005	mg/L	0.000051	-0.00010	mg/L	0.000103	100.70%
Co 228.616†	2.6	0.00009	mg/L	0.000077	0.00019	mg/L	0.000153	80.70%
Cr 267.716†	-2.5	-0.00041	mg/L	0.000724	-0.00081	mg/L	0.001448	177.85%
Cu 324.752†	-135.3	-0.00061	mg/L	0.000139	-0.00122	mg/L	0.000279	22.86%
Fe 273.955†	7.8	0.00953	mg/L	0.000540	0.01906	mg/L	0.001079	5.66%
K 766.490†	-65.8	-0.06266	mg/L	0.011050	-0.1253	mg/L	0.02210	17.63%
Mg 279.077†	25.2	0.02284	mg/L	0.009040	0.04568	mg/L	0.018080	39.58%
Mn 257.610†	-2.1	-0.00009	mg/L	0.000216	-0.00019	mg/L	0.000432	229.69%
Mo 202.031†	-0.7	-0.00008	mg/L	0.000350	-0.00016	mg/L	0.000700	435.08%
Na 589.592†	76.0	0.01424	mg/L	0.003461	0.02848	mg/L	0.006921	24.30%
Na 330.237†	22.8	0.8645	mg/L	0.12346	1.729	mg/L	0.2469	14.28%
Ni 231.604†	-4.5	-0.00298	mg/L	0.003065	-0.00595	mg/L	0.006130	102.99%
Pb 220.353†	-7.9	-0.00118	mg/L	0.000672	-0.00236	mg/L	0.001343	56.81%
Sb 206.836†	1.2	0.00140	mg/L	0.002539	0.00279	mg/L	0.005078	181.91%
Se 196.026†	-0.2	-0.00024	mg/L	0.003236	-0.00049	mg/L	0.006471	>999.9%
Si 288.158†	16.1	0.01343	mg/L	0.005223	0.02685	mg/L	0.010446	38.90%
Sn 189.927†	2.6	0.00084	mg/L	0.001147	0.00168	mg/L	0.002293	136.34%
Sr 421.552†	183.2	0.00032	mg/L	0.000125	0.00064	mg/L	0.000251	39.29%
Ti 334.903†	33.1	0.00159	mg/L	0.000934	0.00318	mg/L	0.001868	58.73%
Tl 190.801†	-1.4	-0.00159	mg/L	0.004403	-0.00318	mg/L	0.008805	276.63%
V 292.402†	15.8	0.00007	mg/L	0.000207	0.00014	mg/L	0.000414	295.10%
Zn 206.200†	10.8	0.01477	mg/L	0.000893	0.02954	mg/L	0.001786	6.05%

Sequence No.: 14
Sample ID: JQ53 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 32
Date Collected: 7/31/2006 3:22:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 A SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JQ53 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1380569.1	105.9	%	0.25				0.23%
ScR 361.383	160769.5	106.9	%	0.54				0.51%
Ag 328.068†	-1592.0	-0.00030	mg/L	0.000116	-0.00150	mg/L	0.000578	38.44%
Al 308.215†	106170.9	90.48	mg/L	0.295	452.4	mg/L	1.47	0.33%
As 188.979†	33.2	0.02667	mg/L	0.008306	0.1333	mg/L	0.04153	31.15%
B 249.677†	13.4	0.00358	mg/L	0.002107	0.01789	mg/L	0.010536	58.89%
Ba 233.527†	630.2	0.2521	mg/L	0.00290	1.260	mg/L	0.0145	1.15%
Be 313.042†	925.5	0.00132	mg/L	0.000034	0.00660	mg/L	0.000171	2.59%
Ca 317.933†	196673.6	13.07	mg/L	0.079	65.35	mg/L	0.396	0.61%
Cd 228.802†	21.7	0.00072	mg/L	0.000113	-0.00362	mg/L	0.000563	15.55%
Co 228.616†	1589.6	0.04902	mg/L	0.000408	0.2451	mg/L	0.00204	0.83%
Cr 267.716†	828.0	0.1388	mg/L	0.00062	0.6939	mg/L	0.00311	0.45%
Cu 324.752†	37103.7	0.1804	mg/L	0.00040	0.9021	mg/L	0.00198	0.22%
Fe 273.955†	125845.9	153.1	mg/L	0.46	765.3	mg/L	2.30	0.30%
K 766.490†	2273.2	2.166	mg/L	0.0277	10.83	mg/L	0.139	1.28%
Mg 279.077†	41537.2	37.58	mg/L	0.139	187.9	mg/L	0.70	0.37%
Mn 257.610†	41617.1	1.791	mg/L	0.0056	8.957	mg/L	0.0279	0.31%
Mo 202.031†	26.3	0.00435	mg/L	0.000095	0.02175	mg/L	0.000477	2.19%
Na 589.592†	2343.3	0.4390	mg/L	0.00803	2.195	mg/L	0.0402	1.83%
Na 330.237†	-2.8	0.8934	mg/L	0.31410	4.467	mg/L	1.5705	35.16%
Ni 231.604†	215.2	0.1423	mg/L	0.00149	0.7117	mg/L	0.00743	1.04%
Pb 220.353†	101.4	0.03282	mg/L	0.000508	0.1641	mg/L	0.00254	1.55%
Sb 206.836†	7.9	0.01200	mg/L	0.004382	0.05998	mg/L	0.021910	36.53%
Se 196.026†	-42.7	-0.04673	mg/L	0.000624	-0.2337	mg/L	0.00312	1.34%
Si 288.158†	1011.5	0.8455	mg/L	0.00721	4.228	mg/L	0.0361	0.85%
Sn 189.927†	-8.9	-0.00241	mg/L	0.001464	-0.01207	mg/L	0.007319	60.64%
Sr 421.552†	22430.3	0.03907	mg/L	0.000154	0.1953	mg/L	0.00077	0.39%
Ti 334.903†	98571.2	4.732	mg/L	0.0172	23.66	mg/L	0.086	0.36%
Tl 190.801†	-11.4	-0.01825	mg/L	0.001091	-0.09125	mg/L	0.005456	5.98%
V 292.402†	60102.1	0.2804	mg/L	0.00094	1.402	mg/L	0.0047	0.34%
Zn 206.200†	202.3	0.2718	mg/L	0.00241	1.359	mg/L	0.0120	0.89%

Sequence No.: 15
Sample ID: JQ53 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5x

Autosampler Location: 33
Date Collected: 7/31/2006 3:28:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 B SWC

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: JQ53 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1379305.7	105.8	%	0.46				0.43%
ScR 361.383	160610.3	106.8	%	0.36				0.34%
Ag 328.068†	-1612.7	-0.00052	mg/L	0.000291	-0.00262	mg/L	0.001455	55.64%
Al 308.215†	118025.9	100.6	mg/L	0.06	502.9	mg/L	0.31	0.06%
As 188.979†	33.9	0.02694	mg/L	0.001064	0.1347	mg/L	0.00532	3.95%
B 249.677†	16.8	0.00483	mg/L	0.001272	0.02414	mg/L	0.006359	26.35%
Ba 233.527†	1095.9	0.4467	mg/L	0.00146	2.234	mg/L	0.0073	0.33%
Be 313.042†	1070.7	0.00158	mg/L	0.000067	0.00792	mg/L	0.000336	4.25%
Ca 317.933†	192202.6	12.77	mg/L	0.025	63.87	mg/L	0.124	0.19%
Cd 228.802†	29.5	-0.00040	mg/L	0.000128	-0.00199	mg/L	0.000640	32.09%
Co 228.616†	1479.3	0.04518	mg/L	0.000428	0.2259	mg/L	0.00214	0.95%
Cr 267.716†	825.1	0.1386	mg/L	0.00131	0.6932	mg/L	0.00654	0.94%
Cu 324.752†	26463.3	0.1323	mg/L	0.00107	0.6615	mg/L	0.00537	0.81%
Fe 273.955†	124103.5	150.9	mg/L	0.83	754.7	mg/L	4.15	0.55%
K 766.490†	2667.7	2.542	mg/L	0.0364	12.71	mg/L	0.182	1.43%
Mg 279.077†	36716.2	33.21	mg/L	0.030	166.1	mg/L	0.15	0.09%
Mn 257.610†	49222.1	2.119	mg/L	0.0038	10.60	mg/L	0.019	0.18%
Mo 202.031†	20.8	0.00400	mg/L	0.000197	0.02001	mg/L	0.000983	4.91%
Na 589.592†	2086.9	0.3910	mg/L	0.00511	1.955	mg/L	0.0255	1.31%
Na 330.237†	-5.3	0.7790	mg/L	0.25118	3.895	mg/L	1.2559	32.24%
Ni 231.604†	218.1	0.1442	mg/L	0.00354	0.7211	mg/L	0.01768	2.45%
Pb 220.353†	96.6	0.03407	mg/L	0.000615	0.1704	mg/L	0.00307	1.80%
Sb 206.836†	9.7	0.01407	mg/L	0.005218	0.07033	mg/L	0.026090	37.09%
Se 196.026†	-33.6	-0.03751	mg/L	0.005271	-0.1875	mg/L	0.02635	14.05%
Si 288.158†	1080.5	0.9032	mg/L	0.00386	4.516	mg/L	0.0193	0.43%
Sn 189.927†	-14.5	-0.00409	mg/L	0.000252	-0.02044	mg/L	0.001259	6.16%
Sr 421.552†	29978.6	0.05222	mg/L	0.000132	0.2611	mg/L	0.00066	0.25%
Ti 334.903†	97299.5	4.671	mg/L	0.0014	23.35	mg/L	0.007	0.03%
Tl 190.801†	-12.6	-0.01959	mg/L	0.000852	-0.09797	mg/L	0.004260	4.35%
V 292.402†	61810.8	0.2884	mg/L	0.00240	1.442	mg/L	0.0120	0.83%
Zn 206.200†	227.4	0.3061	mg/L	0.00278	1.530	mg/L	0.0139	0.91%

Sequence No.: 16
Sample ID: JQ53 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 34
Date Collected: 7/31/2006 3:35:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 C SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ53 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1368490.4	105.0	%	0.58				0.55%
ScR 361.383	158769.0	105.6	%	0.11				0.10%
Ag 328.068†	-1227.5	-0.00042	mg/L	0.000172	-0.00210	mg/L	0.000862	41.08%
Al 308.215†	92458.9	78.80	mg/L	0.025	394.0	mg/L	0.13	0.03%
As 188.979†	26.3	0.02029	mg/L	0.004812	0.1015	mg/L	0.02406	23.71%
B 249.677†	5.8	0.00107	mg/L	0.002755	0.00535	mg/L	0.013774	257.23%
Ba 233.527†	1005.0	0.4108	mg/L	0.00136	2.054	mg/L	0.0068	0.33%
Be 313.042†	826.4	0.00122	mg/L	0.000024	0.00612	mg/L	0.000119	1.94%
Ca 317.933†	162802.4	10.82	mg/L	0.009	54.10	mg/L	0.045	0.08%
Cd 228.802†	21.7	-0.00042	mg/L	0.000119	-0.00210	mg/L	0.000596	28.44%
Co 228.616†	1267.4	0.03911	mg/L	0.000146	0.1955	mg/L	0.00073	0.37%
Cr 267.716†	681.3	0.1135	mg/L	0.00006	0.5676	mg/L	0.00031	0.05%
Cu 324.752†	24501.0	0.1211	mg/L	0.00066	0.6054	mg/L	0.00332	0.55%
Fe 273.955†	101253.9	123.2	mg/L	0.10	615.8	mg/L	0.51	0.08%
K 766.490†	2136.4	2.036	mg/L	0.0237	10.18	mg/L	0.118	1.16%
Mg 279.077†	28600.4	25.87	mg/L	0.049	129.3	mg/L	0.25	0.19%
Mn 257.610†	89727.1	3.864	mg/L	0.0027	19.32	mg/L	0.014	0.07%
Mo 202.031†	19.4	0.00351	mg/L	0.000277	0.01757	mg/L	0.001384	7.88%
Na 589.592†	1783.1	0.3341	mg/L	0.00246	1.670	mg/L	0.0123	0.74%
Na 330.237†	-12.5	0.3110	mg/L	0.26505	1.555	mg/L	1.3253	85.23%
Ni 231.604†	166.6	0.1102	mg/L	0.00029	0.5509	mg/L	0.00143	0.26%
Pb 220.353†	106.7	0.03135	mg/L	0.001063	0.1567	mg/L	0.00532	3.39%
Sb 206.836†	10.4	0.01424	mg/L	0.004802	0.07121	mg/L	0.024012	33.72%
Se 196.026†	-31.5	-0.03731	mg/L	0.007979	-0.1866	mg/L	0.03990	21.39%
Si 288.158†	1057.9	0.8842	mg/L	0.00831	4.421	mg/L	0.0416	0.94%
Sn 189.927†	-15.1	-0.00423	mg/L	0.001356	-0.02117	mg/L	0.006780	32.03%
Sr 421.552†	24669.5	0.04297	mg/L	0.000099	0.2148	mg/L	0.00050	0.23%
Ti 334.903†	78695.2	3.778	mg/L	0.0046	18.89	mg/L	0.023	0.12%
Tl 190.801†	-10.8	-0.01648	mg/L	0.001581	-0.08241	mg/L	0.007903	9.59%
V 292.402†	47377.5	0.2214	mg/L	0.00120	1.107	mg/L	0.0060	0.54%
Zn 206.200†	186.3	0.2508	mg/L	0.00313	1.254	mg/L	0.0157	1.25%

Sequence No.: 17
Sample ID: JQ53 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 35
Date Collected: 7/31/2006 3:42:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ53 D SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JQ53 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1387006.3	106.4	%	0.33				0.31%
ScR 361.383	163994.2	109.1	%	0.10				0.09%
Ag 328.068†	-1415.8	-0.00006	mg/L	0.000094	-0.00030	mg/L	0.000470	158.85%
Al 308.215†	119816.4	102.1	mg/L	0.24	510.6	mg/L	1.18	0.23%
As 188.979†	34.1	0.02609	mg/L	0.004109	0.1305	mg/L	0.02054	15.75%
B 249.677†	13.8	0.00367	mg/L	0.002773	0.01833	mg/L	0.013866	75.63%
Ba 233.527†	1133.7	0.4630	mg/L	0.00252	2.315	mg/L	0.0126	0.54%
Be 313.042†	1169.4	0.00177	mg/L	0.000051	0.00884	mg/L	0.000257	2.90%
Ca 317.933†	231788.1	15.40	mg/L	0.024	77.02	mg/L	0.118	0.15%
Cd 228.802†	29.9	-0.00032	mg/L	0.000125	-0.00161	mg/L	0.000625	38.77%
Co 228.616†	1560.1	0.04778	mg/L	0.000312	0.2389	mg/L	0.00156	0.65%
Cr 267.716†	891.9	0.1492	mg/L	0.00155	0.7458	mg/L	0.00777	1.04%
Cu 324.752†	29619.9	0.1459	mg/L	0.00037	0.7295	mg/L	0.00187	0.26%
Fe 273.955†	119031.2	144.8	mg/L	0.44	723.9	mg/L	2.21	0.31%
K 766.490†	3186.2	3.036	mg/L	0.0114	15.18	mg/L	0.057	0.38%
Mg 279.077†	32478.0	29.37	mg/L	0.071	146.8	mg/L	0.36	0.24%
Mn 257.610†	60527.8	2.606	mg/L	0.0038	13.03	mg/L	0.019	0.15%
Mo 202.031†	17.7	0.00375	mg/L	0.000413	0.01873	mg/L	0.002065	11.03%
Na 589.592†	2560.6	0.4797	mg/L	0.00154	2.399	mg/L	0.0077	0.32%
Na 330.237†	-15.6	0.4457	mg/L	0.23043	2.229	mg/L	1.1521	51.70%
Ni 231.604†	213.7	0.1413	mg/L	0.00428	0.7065	mg/L	0.02140	3.03%
Pb 220.353†	89.6	0.03331	mg/L	0.000144	0.1666	mg/L	0.00072	0.43%
Sb 206.836†	8.9	0.01324	mg/L	0.002329	0.06620	mg/L	0.011647	17.59%
Se 196.026†	-37.0	-0.04163	mg/L	0.001912	-0.2081	mg/L	0.00956	4.59%
Si 288.158†	939.3	0.7852	mg/L	0.00924	3.926	mg/L	0.0462	1.18%
Sn 189.927†	-12.3	-0.00287	mg/L	0.002324	-0.01434	mg/L	0.011622	81.05%
Sr 421.552†	31673.7	0.05517	mg/L	0.000166	0.2758	mg/L	0.00083	0.30%
Ti 334.903†	104323.4	5.008	mg/L	0.0088	25.04	mg/L	0.044	0.18%
Tl 190.801†	-9.9	-0.01680	mg/L	0.000383	-0.08399	mg/L	0.001915	2.28%
V 292.402†	62268.2	0.2906	mg/L	0.00148	1.453	mg/L	0.0074	0.51%
Zn 206.200†	230.2	0.3102	mg/L	0.00221	1.551	mg/L	0.0111	0.71%

Sequence No.: 18
Sample ID: JQ18 MB2SPK DMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 36
Date Collected: 7/31/2006 3:49:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ18 MB2SPK DMN

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: JQ18 MB2SPK DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1395506.8	107.0	%	0.30				0.28%
ScR 361.383	161356.2	107.3	%	0.32				0.30%
Ag 328.068†	118525.6	0.4810	mg/L	0.00502	0.4810	mg/L	0.00502	1.04%
Al 308.215†	2358.0	2.001	mg/L	0.0068	2.001	mg/L	0.0068	0.34%
As 188.979†	1381.6	1.988	mg/L	0.0011	1.988	mg/L	0.0011	0.05%
B 249.677†	10.6	0.00477	mg/L	0.000690	0.00477	mg/L	0.000690	14.46%
Ba 233.527†	4647.3	1.941	mg/L	0.0070	1.941	mg/L	0.0070	0.36%
Be 313.042†	260334.4	0.4945	mg/L	0.00270	0.4945	mg/L	0.00270	0.55%
Ca 317.933†	147528.9	9.805	mg/L	0.0614	9.805	mg/L	0.0614	0.63%
Cd 228.802†	12695.1	0.5121	mg/L	0.00596	0.5121	mg/L	0.00596	1.16%
Co 228.616†	12868.5	0.4797	mg/L	0.00586	0.4797	mg/L	0.00586	1.22%
Cr 267.716†	3040.8	0.4872	mg/L	0.00161	0.4872	mg/L	0.00161	0.33%
Cu 324.752†	105608.9	0.4763	mg/L	0.00443	0.4763	mg/L	0.00443	0.93%
Fe 273.955†	1703.0	2.070	mg/L	0.0098	2.070	mg/L	0.0098	0.48%
K 766.490†	10467.4	9.974	mg/L	0.0933	9.974	mg/L	0.0933	0.94%
Mg 279.077†	10960.0	9.946	mg/L	0.0538	9.946	mg/L	0.0538	0.54%
Mn 257.610†	11353.4	0.4893	mg/L	0.00365	0.4893	mg/L	0.00365	0.75%
Mo 202.031†	14.9	0.00164	mg/L	0.000081	0.00164	mg/L	0.000081	4.94%
Na 589.592†	54089.4	10.13	mg/L	0.056	10.13	mg/L	0.056	0.55%
Na 330.237†	271.2	10.10	mg/L	0.207	10.10	mg/L	0.207	2.05%
Ni 231.604†	724.3	0.4801	mg/L	0.00117	0.4801	mg/L	0.00117	0.24%
Pb 220.353†	13213.5	1.987	mg/L	0.0210	1.987	mg/L	0.0210	1.06%
Sb 206.836†	1760.4	2.025	mg/L	0.0045	2.025	mg/L	0.0045	0.22%
Se 196.026†	2117.4	2.214	mg/L	0.0083	2.214	mg/L	0.0083	0.38%
Si 288.158†	3.5	0.00397	mg/L	0.013824	0.00397	mg/L	0.013824	348.19%
Sn 189.927†	1545.2	0.4889	mg/L	0.00154	0.4889	mg/L	0.00154	0.32%
Sr 421.552†	279994.1	0.4877	mg/L	0.00230	0.4877	mg/L	0.00230	0.47%
Ti 334.903†	27.7	0.00122	mg/L	0.001229	0.00122	mg/L	0.001229	100.46%
Tl 190.801†	1714.0	1.985	mg/L	0.0040	1.985	mg/L	0.0040	0.20%
V 292.402†	105684.1	0.4983	mg/L	0.00536	0.4983	mg/L	0.00536	1.08%
Zn 206.200†	362.6	0.4942	mg/L	0.00192	0.4942	mg/L	0.00192	0.39%

Sequence No.: 19
Sample ID: ¢CV 6
Analyst: JLB 7/31/6 JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 3:55:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: ¢CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1355921.5	104.0	%	0.57				0.55%
ScR 361.383	158281.9	105.3	%	0.39				0.37%
Ag 328.068†	231311.2	0.9384	mg/L	0.00900	0.9384	mg/L	0.00900	0.96%
Al 308.215†	2286.1	1.913	mg/L	0.0113	1.913	mg/L	0.0113	0.59%
As 188.979†	1317.6	1.893	mg/L	0.0107	1.893	mg/L	0.0107	0.56%
B 249.677†	2585.2	0.9441	mg/L	0.00536	0.9441	mg/L	0.00536	0.57%
Ba 233.527†	2345.6	0.9793	mg/L	0.00071	0.9793	mg/L	0.00071	0.07%
Be 313.042†	500926.1	0.9515	mg/L	0.00150	0.9515	mg/L	0.00150	0.16%
Ca 317.933†	29684.3	1.973	mg/L	0.0051	1.973	mg/L	0.0051	0.26%
Cd 228.802†	24326.0	0.9841	mg/L	0.01135	0.9841	mg/L	0.01135	1.15%
Co 228.616†	25231.3	0.9398	mg/L	0.01115	0.9398	mg/L	0.01115	1.19%
Cr 267.716†	5933.5	0.9529	mg/L	0.00104	0.9529	mg/L	0.00104	0.11%
Cu 324.752†	217679.2	0.9808	mg/L	0.00989	0.9808	mg/L	0.00989	1.01%
Fe 273.955†	1647.9	2.002	mg/L	0.0081	2.002	mg/L	0.0081	0.40%
K 766.490†	20491.7	19.53	mg/L	0.014	19.53	mg/L	0.014	0.07%
Mg 279.077†	2141.3	1.947	mg/L	0.0036	1.947	mg/L	0.0036	0.19%
Mn 257.610†	22458.7	0.9679	mg/L	0.00216	0.9679	mg/L	0.00216	0.22%
Mo 202.031†	7724.6	0.9499	mg/L	0.00538	0.9499	mg/L	0.00538	0.57%
Na 589.592†	255071.6	47.79	mg/L	0.049	47.79	mg/L	0.049	0.10%
Na 330.237†	1297.5	49.33	mg/L	0.087	49.33	mg/L	0.087	0.18%
Ni 231.604†	1450.8	0.9606	mg/L	0.00396	0.9606	mg/L	0.00396	0.41%
Pb 220.353†	12717.6	1.913	mg/L	0.0168	1.913	mg/L	0.0168	0.88%
Sb 206.836†	1764.7	2.030	mg/L	0.0152	2.030	mg/L	0.0152	0.75%
Se 196.026†	1808.9	1.891	mg/L	0.0144	1.891	mg/L	0.0144	0.76%
Si 288.158†	2446.0	2.046	mg/L	0.0038	2.046	mg/L	0.0038	0.18%
Sn 189.927†	2869.9	0.9022	mg/L	0.00572	0.9022	mg/L	0.00572	0.63%
Sr 421.552†	548802.2	0.9559	mg/L	0.00064	0.9559	mg/L	0.00064	0.07%
Ti 334.903†	20271.0	0.9719	mg/L	0.00050	0.9719	mg/L	0.00050	0.05%
Tl 190.801†	1610.2	1.865	mg/L	0.0171	1.865	mg/L	0.0171	0.91%
V 292.402†	202972.4	0.9573	mg/L	0.00935	0.9573	mg/L	0.00935	0.98%
Zn 206.200†	726.0	0.9888	mg/L	0.00242	0.9888	mg/L	0.00242	0.24%

Sequence No.: 20
Sample ID: CCB 6
Analyst: JLB
Initial Sample Wt:
Dilution: 1X 7.31.06 JLB

Autosampler Location: 1
Date Collected: 7/31/2006 4:02:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1367871.6	104.9	%	0.39				0.38%
ScR 361.383	157695.2	104.9	%	0.48				0.46%
Ag 328.068†	37.6	0.00015	mg/L	0.000006	0.00015	mg/L	0.000006	4.20%
Al 308.215†	4.2	0.00353	mg/L	0.008577	0.00353	mg/L	0.008577	242.85%
As 188.979†	0.9	0.00129	mg/L	0.000470	0.00129	mg/L	0.000470	36.37%
B 249.677†	-0.7	-0.00025	mg/L	0.001881	-0.00025	mg/L	0.001881	743.96%
Ba 233.527†	-0.1	-0.00002	mg/L	0.001629	-0.00002	mg/L	0.001629	>999.9%
Be 313.042†	-51.9	-0.00010	mg/L	0.000030	-0.00010	mg/L	0.000030	29.94%
Ca 317.933†	-5.5	-0.00037	mg/L	0.001226	-0.00037	mg/L	0.001226	334.67%
Cd 228.802†	2.3	0.00009	mg/L	0.000058	0.00009	mg/L	0.000058	63.60%
Co 228.616†	-1.3	-0.00005	mg/L	0.000119	-0.00005	mg/L	0.000119	250.57%
Cr 267.716†	3.6	0.00058	mg/L	0.000902	0.00058	mg/L	0.000902	154.16%
Cu 324.752†	-170.3	-0.00077	mg/L	0.000132	-0.00077	mg/L	0.000132	17.17%
Fe 273.955†	0.0	0.00002	mg/L	0.003232	0.00002	mg/L	0.003232	>999.9%
K 766.490†	-58.9	-0.05614	mg/L	0.031220	-0.05614	mg/L	0.031220	55.61%
Mg 279.077†	12.8	0.01165	mg/L	0.001616	0.01165	mg/L	0.001616	13.87%
Mn 257.610†	-3.1	-0.00013	mg/L	0.000067	-0.00013	mg/L	0.000067	49.91%
Mo 202.031†	2.9	0.00035	mg/L	0.000213	0.00035	mg/L	0.000213	60.15%
Na 589.592†	65.9	0.01235	mg/L	0.009131	0.01235	mg/L	0.009131	73.93%
Na 330.237†	4.3	0.1628	mg/L	0.39830	0.1628	mg/L	0.39830	244.62%
Ni 231.604†	-0.5	-0.00032	mg/L	0.003060	-0.00032	mg/L	0.003060	966.69%
Pb 220.353†	2.8	0.00043	mg/L	0.000516	0.00043	mg/L	0.000516	120.80%
Sb 206.836†	4.7	0.00537	mg/L	0.001847	0.00537	mg/L	0.001847	34.40%
Se 196.026†	6.5	0.00676	mg/L	0.002339	0.00676	mg/L	0.002339	34.59%
Si 288.158†	8.7	0.00727	mg/L	0.002978	0.00727	mg/L	0.002978	40.95%
Sn 189.927†	6.2	0.00195	mg/L	0.001198	0.00195	mg/L	0.001198	61.48%
Sr 421.552†	123.8	0.00022	mg/L	0.000068	0.00022	mg/L	0.000068	31.63%
Ti 334.903†	-16.1	-0.00077	mg/L	0.000246	-0.00077	mg/L	0.000246	31.94%
Tl 190.801†	2.6	0.00298	mg/L	0.002472	0.00298	mg/L	0.002472	82.91%
V 292.402†	12.8	0.00006	mg/L	0.000244	0.00006	mg/L	0.000244	376.88%
Zn 206.200†	0.3	0.00037	mg/L	0.000538	0.00037	mg/L	0.000538	145.71%

Sequence No.: 21
Sample ID: JQ33 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 7/31/2006 4:08:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 B SWC

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: JQ33 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1411530.4	108.3	%	0.41				0.38%
ScR 361.383	164170.4	109.2	%	0.63				0.58%
Ag 328.068†	-1976.8	0.00002	mg/L	0.000112	0.00005	mg/L	0.000224	459.08%
Al 308.215†	208293.3	177.5	mg/L	0.65	355.0	mg/L	1.30	0.37%
As 188.979†	54.2	0.03833	mg/L	0.003138	0.07666	mg/L	0.006276	8.19%
B 249.677†	27.4	0.00746	mg/L	0.000701	0.01491	mg/L	0.001403	9.41%
Ba 233.527†	2112.7	0.8674	mg/L	0.00516	1.735	mg/L	0.0103	0.59%
Be 313.042†	1963.3	0.00295	mg/L	0.000074	0.00591	mg/L	0.000148	2.50%
Ca 317.933†	560658.0	37.26	mg/L	0.091	74.52	mg/L	0.183	0.25%
Cd 228.802†	70.1	0.00063	mg/L	0.000174	0.00125	mg/L	0.000349	27.81%
Co 228.616†	2743.8	0.08595	mg/L	0.000763	0.1719	mg/L	0.00153	0.89%
Cr 267.716†	1023.4	0.1735	mg/L	0.00100	0.3471	mg/L	0.00199	0.57%
Cu 324.752†	49592.7	0.2410	mg/L	0.00104	0.4820	mg/L	0.00209	0.43%
Fe 273.955†	169385.3	206.0	mg/L	0.77	412.0	mg/L	1.54	0.37%
K 766.490†	5956.3	5.676	mg/L	0.0312	11.35	mg/L	0.062	0.55%
Mg 279.077†	37842.8	34.19	mg/L	0.068	68.38	mg/L	0.136	0.20%
Mn 257.610†	96414.3	4.151	mg/L	0.0083	8.303	mg/L	0.0167	0.20%
Mo 202.031†	17.8	0.00531	mg/L	0.000416	0.01062	mg/L	0.000833	7.84%
Na 589.592†	22183.2	4.156	mg/L	0.0134	8.312	mg/L	0.0268	0.32%
Na 330.237†	71.0	4.277	mg/L	0.0703	8.554	mg/L	0.1407	1.64%
Ni 231.604†	220.7	0.1459	mg/L	0.00401	0.2919	mg/L	0.00802	2.75%
Pb 220.353†	702.4	0.1399	mg/L	0.00087	0.2798	mg/L	0.00174	0.62%
Sb 206.836†	14.0	0.02232	mg/L	0.001063	0.04463	mg/L	0.002126	4.76%
Se 196.026†	-53.0	-0.06011	mg/L	0.002173	-0.1202	mg/L	0.00435	3.62%
Si 288.158†	4857.2	4.059	mg/L	0.0070	8.119	mg/L	0.0141	0.17%
Sn 189.927†	-26.2	-0.00413	mg/L	0.000950	-0.00826	mg/L	0.001900	23.01%
Sr 421.552†	251098.3	0.4374	mg/L	0.00141	0.8747	mg/L	0.00282	0.32%
Ti 334.903†	173509.9	8.329	mg/L	0.0194	16.66	mg/L	0.039	0.23%
Tl 190.801†	-20.1	-0.03212	mg/L	0.004950	-0.06425	mg/L	0.009900	15.41%
V 292.402†	106529.9	0.4966	mg/L	0.00262	0.9932	mg/L	0.00523	0.53%
Zn 206.200†	517.7	0.7007	mg/L	0.00428	1.401	mg/L	0.0086	0.61%

Sequence No.: 22
Sample ID: JQ33 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 38
Date Collected: 7/31/2006 4:14:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 C SWC

Analyte	Back Pressure	Flow
All	186.0 kPa	0.50 L/min

Mean Data: JQ33 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1395463.7	107.0	%	0.16				0.15%
ScR 361.383	166021.1	110.4	%	0.63				0.57%
Ag 328.068†	-1774.3	0.00090	mg/L	0.000242	0.00179	mg/L	0.000484	27.02%
Al 308.215†	200951.5	171.3	mg/L	0.55	342.5	mg/L	1.10	0.32%
As 188.979†	53.5	0.03809	mg/L	0.003752	0.07617	mg/L	0.007504	9.85%
B 249.677†	24.7	0.00654	mg/L	0.001700	0.01309	mg/L	0.003400	25.98%
Ba 233.527†	2188.1	0.8990	mg/L	0.00683	1.798	mg/L	0.0137	0.76%
Be 313.042†	1914.1	0.00285	mg/L	0.000046	0.00570	mg/L	0.000092	1.62%
Ca 317.933†	536842.3	35.68	mg/L	0.097	71.36	mg/L	0.193	0.27%
Cd 228.802†	84.1	0.00121	mg/L	0.000184	0.00241	mg/L	0.000367	15.22%
Co 228.616†	2702.8	0.08445	mg/L	0.000199	0.1689	mg/L	0.00040	0.24%
Cr 267.716†	1125.2	0.1903	mg/L	0.00109	0.3807	mg/L	0.00218	0.57%
Cu 324.752†	57726.3	0.2776	mg/L	0.00043	0.5551	mg/L	0.00085	0.15%
Fe 273.955†	168418.0	204.8	mg/L	0.37	409.7	mg/L	0.74	0.18%
K 766.490†	5653.0	5.387	mg/L	0.0419	10.77	mg/L	0.084	0.78%
Mg 279.077†	36443.4	32.92	mg/L	0.165	65.85	mg/L	0.329	0.50%
Mn 257.610†	82461.4	3.550	mg/L	0.0065	7.101	mg/L	0.0130	0.18%
Mo 202.031†	17.7	0.00519	mg/L	0.000711	0.01037	mg/L	0.001422	13.71%
Na 589.592†	22855.6	4.282	mg/L	0.0075	8.564	mg/L	0.0150	0.18%
Na 330.237†	78.8	4.546	mg/L	0.1825	9.092	mg/L	0.3650	4.01%
Ni 231.604†	225.6	0.1492	mg/L	0.00093	0.2983	mg/L	0.00186	0.62%
Pb 220.353†	1025.7	0.1873	mg/L	0.00085	0.3746	mg/L	0.00170	0.45%
Sb 206.836†	11.5	0.01920	mg/L	0.003534	0.03839	mg/L	0.007067	18.41%
Se 196.026†	-60.7	-0.06755	mg/L	0.012494	-0.1351	mg/L	0.02499	18.50%
Si 288.158†	2372.6	1.983	mg/L	0.0177	3.966	mg/L	0.0353	0.89%
Sn 189.927†	-16.4	-0.00131	mg/L	0.002297	-0.00262	mg/L	0.004594	175.60%
Sr 421.552†	253772.2	0.4420	mg/L	0.00138	0.8840	mg/L	0.00275	0.31%
Ti 334.903†	172139.3	8.263	mg/L	0.0293	16.53	mg/L	0.059	0.35%
Tl 190.801†	-17.1	-0.02857	mg/L	0.000112	-0.05714	mg/L	0.000225	0.39%
V 292.402†	107537.4	0.5014	mg/L	0.00141	1.003	mg/L	0.0028	0.28%
Zn 206.200†	590.4	0.7998	mg/L	0.01194	1.600	mg/L	0.0239	1.49%

Sequence No.: 23
Sample ID: JQ33 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 39
Date Collected: 7/31/2006 4:21:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 D SWC

Analyte	Back Pressure	Flow
All	186.0 kPa	0.50 L/min

Mean Data: JQ33 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1418012.4	108.8	%	0.55				0.50%
ScR 361.383	168120.4	111.8	%	0.78				0.69%
Ag 328.068†	-1925.9	0.00022	mg/L	0.000263	0.00044	mg/L	0.000527	118.78%
Al 308.215†	201981.2	172.1	mg/L	0.04	344.3	mg/L	0.08	0.02%
As 188.979†	53.5	0.03793	mg/L	0.000438	0.07587	mg/L	0.000876	1.15%
B 249.677†	24.8	0.00653	mg/L	0.000414	0.01306	mg/L	0.000827	6.33%
Ba 233.527†	2162.5	0.8883	mg/L	0.00456	1.777	mg/L	0.0091	0.51%
Be 313.042†	1917.0	0.00286	mg/L	0.000017	0.00572	mg/L	0.000033	0.58%
Ca 317.933†	547610.8	36.39	mg/L	0.082	72.79	mg/L	0.165	0.23%
Cd 228.802†	57.7	0.00014	mg/L	0.000133	0.00028	mg/L	0.000267	94.90%
Co 228.616†	2666.8	0.08309	mg/L	0.001124	0.1662	mg/L	0.00225	1.35%
Cr 267.716†	1058.0	0.1793	mg/L	0.00161	0.3585	mg/L	0.00321	0.90%
Cu 324.752†	46670.8	0.2276	mg/L	0.00175	0.4553	mg/L	0.00351	0.77%
Fe 273.955†	167923.1	204.2	mg/L	1.10	408.5	mg/L	2.20	0.54%
K 766.490†	5793.7	5.521	mg/L	0.0276	11.04	mg/L	0.055	0.50%
Mg 279.077†	37164.1	33.58	mg/L	0.132	67.15	mg/L	0.264	0.39%
Mn 257.610†	87286.3	3.758	mg/L	0.0077	7.516	mg/L	0.0155	0.21%
Mo 202.031†	14.4	0.00479	mg/L	0.000317	0.00958	mg/L	0.000635	6.63%
Na 589.592†	22510.5	4.217	mg/L	0.0076	8.435	mg/L	0.0153	0.18%
Na 330.237†	71.8	4.345	mg/L	0.0581	8.689	mg/L	0.1162	1.34%
Ni 231.604†	214.0	0.1415	mg/L	0.00216	0.2831	mg/L	0.00432	1.53%
Pb 220.353†	413.9	0.09554	mg/L	0.001941	0.1911	mg/L	0.00388	2.03%
Sb 206.836†	12.7	0.02075	mg/L	0.002816	0.04151	mg/L	0.005632	13.57%
Se 196.026†	-51.0	-0.05756	mg/L	0.011246	-0.1151	mg/L	0.02249	19.54%
Si 288.158†	2897.1	2.421	mg/L	0.0240	4.843	mg/L	0.0480	0.99%
Sn 189.927†	-25.5	-0.00404	mg/L	0.001024	-0.00808	mg/L	0.002048	25.35%
Sr 421.552†	263708.6	0.4593	mg/L	0.00035	0.9186	mg/L	0.00070	0.08%
Ti 334.903†	172714.3	8.291	mg/L	0.0090	16.58	mg/L	0.018	0.11%
Tl 190.801†	-16.9	-0.02836	mg/L	0.003777	-0.05673	mg/L	0.007554	13.32%
V 292.402†	107358.8	0.5005	mg/L	0.00369	1.001	mg/L	0.0074	0.74%
Zn 206.200†	407.0	0.5498	mg/L	0.00291	1.100	mg/L	0.0058	0.53%

Sequence No.: 24
Sample ID: JQ33 E SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 40
Date Collected: 7/31/2006 4:27:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 E SWC

Analyte	Back Pressure	Flow
All	186.0 kPa	0.50 L/min

Mean Data: JQ33 E SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1417970.1	108.8	%	0.28				0.26%
ScR 361.383	167288.5	111.2	%	0.34				0.30%
Ag 328.068†	-2142.4	-0.00023	mg/L	0.000201	-0.00047	mg/L	0.000402	85.81%
Al 308.215†	228106.0	194.4	mg/L	0.34	388.8	mg/L	0.69	0.18%
As 188.979†	54.5	0.03662	mg/L	0.005761	0.07325	mg/L	0.011521	15.73%
B 249.677†	27.7	0.00752	mg/L	0.000681	0.01505	mg/L	0.001361	9.05%
Ba 233.527†	2231.9	0.9164	mg/L	0.00224	1.833	mg/L	0.0045	0.24%
Be 313.042†	2104.4	0.00317	mg/L	0.000019	0.00635	mg/L	0.000037	0.59%
Ca 317.933†	602992.1	40.07	mg/L	0.077	80.15	mg/L	0.153	0.19%
Cd 228.802†	53.3	-0.00016	mg/L	0.000092	-0.00032	mg/L	0.000184	56.89%
Co 228.616†	2859.3	0.08999	mg/L	0.000575	0.1800	mg/L	0.00115	0.64%
Cr 267.716†	1085.7	0.1838	mg/L	0.00098	0.3675	mg/L	0.00197	0.53%
Cu 324.752†	49991.2	0.2437	mg/L	0.00059	0.4873	mg/L	0.00118	0.24%
Fe 273.955†	177798.1	216.2	mg/L	1.07	432.5	mg/L	2.14	0.49%
K 766.490†	6345.7	6.047	mg/L	0.0158	12.09	mg/L	0.032	0.26%
Mg 279.077†	42017.3	37.97	mg/L	0.081	75.95	mg/L	0.163	0.21%
Mn 257.610†	99532.4	4.285	mg/L	0.0143	8.571	mg/L	0.0287	0.33%
Mo 202.031†	19.5	0.00580	mg/L	0.000191	0.01161	mg/L	0.000381	3.29%
Na 589.592†	22865.7	4.284	mg/L	0.0148	8.568	mg/L	0.0296	0.35%
Na 330.237†	78.0	4.606	mg/L	0.3665	9.213	mg/L	0.7330	7.96%
Ni 231.604†	227.5	0.1505	mg/L	0.00124	0.3010	mg/L	0.00248	0.82%
Pb 220.353†	287.9	0.08090	mg/L	0.000330	0.1618	mg/L	0.00066	0.41%
Sb 206.836†	16.0	0.02476	mg/L	0.003448	0.04952	mg/L	0.006896	13.93%
Se 196.026†	-54.4	-0.06175	mg/L	0.008178	-0.1235	mg/L	0.01636	13.25%
Si 288.158†	2598.1	2.171	mg/L	0.0055	4.343	mg/L	0.0110	0.25%
Sn 189.927†	-26.6	-0.00390	mg/L	0.000532	-0.00779	mg/L	0.001064	13.66%
Sr 421.552†	273174.1	0.4758	mg/L	0.00114	0.9516	mg/L	0.00228	0.24%
Ti 334.903†	177231.9	8.508	mg/L	0.0235	17.02	mg/L	0.047	0.28%
Tl 190.801†	-19.5	-0.03174	mg/L	0.005260	-0.06349	mg/L	0.010520	16.57%
V 292.402†	113086.7	0.5273	mg/L	0.00067	1.055	mg/L	0.0013	0.13%
Zn 206.200†	394.7	0.5328	mg/L	0.00253	1.066	mg/L	0.0051	0.47%

Sequence No.: 25
Sample ID: JQ33 F SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 7/31/2006 4:34:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 F SWC

Analyte	Back Pressure	Flow
All	187.0 kPa	0.50 L/min

Mean Data: JQ33 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1418473.8	108.8	%	0.08				0.07%
ScR 361.383	166976.2	111.0	%	1.29				1.16%
Ag 328.068†	-1780.6	0.00080	mg/L	0.000074	0.00159	mg/L	0.000148	9.31%
Al 308.215†	211602.6	180.3	mg/L	0.46	360.7	mg/L	0.92	0.25%
As 188.979†	51.5	0.03436	mg/L	0.004000	0.06872	mg/L	0.007999	11.64%
B 249.677†	32.6	0.00939	mg/L	0.001838	0.01879	mg/L	0.003675	19.56%
Ba 233.527†	2204.2	0.9056	mg/L	0.01231	1.811	mg/L	0.0246	1.36%
Be 313.042†	1909.2	0.00285	mg/L	0.000069	0.00570	mg/L	0.000137	2.41%
Ca 317.933†	560630.0	37.26	mg/L	0.085	74.52	mg/L	0.169	0.23%
Cd 228.802†	63.1	0.00035	mg/L	0.000152	0.00070	mg/L	0.000304	43.20%
Co 228.616†	2716.6	0.08513	mg/L	0.000443	0.1703	mg/L	0.00089	0.52%
Cr 267.716†	1109.5	0.1875	mg/L	0.00201	0.3750	mg/L	0.00403	1.07%
Cu 324.752†	53611.8	0.2591	mg/L	0.00029	0.5182	mg/L	0.00057	0.11%
Fe 273.955†	169008.2	205.6	mg/L	0.09	411.1	mg/L	0.19	0.05%
K 766.490†	6039.2	5.755	mg/L	0.0974	11.51	mg/L	0.195	1.69%
Mg 279.077†	36826.3	33.27	mg/L	0.067	66.54	mg/L	0.133	0.20%
Mn 257.610†	96953.9	4.174	mg/L	0.0110	8.349	mg/L	0.0219	0.26%
Mo 202.031†	11.9	0.00467	mg/L	0.000570	0.00934	mg/L	0.001140	12.20%
Na 589.592†	23596.7	4.421	mg/L	0.0134	8.842	mg/L	0.0268	0.30%
Na 330.237†	81.1	4.641	mg/L	0.2364	9.282	mg/L	0.4727	5.09%
Ni 231.604†	224.4	0.1484	mg/L	0.00082	0.2968	mg/L	0.00163	0.55%
Pb 220.353†	647.5	0.1322	mg/L	0.00060	0.2645	mg/L	0.00121	0.46%
Sb 206.836†	13.5	0.02142	mg/L	0.003170	0.04284	mg/L	0.006341	14.80%
Se 196.026†	-54.5	-0.06172	mg/L	0.006644	-0.1234	mg/L	0.01329	10.76%
Si 288.158†	8925.9	7.459	mg/L	0.0764	14.92	mg/L	0.153	1.02%
Sn 189.927†	-24.6	-0.00359	mg/L	0.001459	-0.00718	mg/L	0.002918	40.64%
Sr 421.552†	261234.2	0.4550	mg/L	0.00120	0.9100	mg/L	0.00240	0.26%
Ti 334.903†	171861.6	8.250	mg/L	0.0201	16.50	mg/L	0.040	0.24%
Tl 190.801†	-17.6	-0.02913	mg/L	0.005147	-0.05825	mg/L	0.010295	17.67%
V 292.402†	106405.5	0.4962	mg/L	0.00145	0.9923	mg/L	0.00290	0.29%
Zn 206.200†	525.3	0.7111	mg/L	0.01140	1.422	mg/L	0.0228	1.60%

Sequence No.: 26
Sample ID: JQ33 G SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 42
Date Collected: 7/31/2006 4:40:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 G SWC

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: JQ33 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1420200.5	108.9	%	0.63				0.58%
ScR 361.383	168303.0	111.9	%	1.93				1.73%
Ag 328.068†	-2010.1	-0.00035	mg/L	0.000439	-0.00071	mg/L	0.000877	124.26%
Al 308.215†	194581.9	165.8	mg/L	3.50	331.7	mg/L	7.00	2.11%
As 188.979†	52.4	0.03739	mg/L	0.006071	0.07478	mg/L	0.012143	16.24%
B 249.677†	25.0	0.00665	mg/L	0.001678	0.01330	mg/L	0.003356	25.24%
Ba 233.527†	2125.0	0.8732	mg/L	0.01224	1.746	mg/L	0.0245	1.40%
Be 313.042†	1787.4	0.00263	mg/L	0.000110	0.00526	mg/L	0.000219	4.17%
Ca 317.933†	558520.5	37.12	mg/L	0.740	74.24	mg/L	1.481	1.99%
Cd 228.802†	56.0	0.00014	mg/L	0.000220	0.00028	mg/L	0.000440	154.51%
Co 228.616†	2674.5	0.08375	mg/L	0.000426	0.1675	mg/L	0.00085	0.51%
Cr 267.716†	996.1	0.1691	mg/L	0.00336	0.3382	mg/L	0.00672	1.99%
Cu 324.752†	42007.2	0.2060	mg/L	0.00082	0.4121	mg/L	0.00164	0.40%
Fe 273.955†	162384.9	197.5	mg/L	4.27	395.0	mg/L	8.55	2.16%
K 766.490†	5755.5	5.484	mg/L	0.1369	10.97	mg/L	0.274	2.50%
Mg 279.077†	35836.7	32.38	mg/L	0.693	64.76	mg/L	1.386	2.14%
Mn 257.610†	80173.4	3.452	mg/L	0.0738	6.903	mg/L	0.1476	2.14%
Mo 202.031†	17.1	0.00501	mg/L	0.000119	0.01002	mg/L	0.000239	2.38%
Na 589.592†	25062.9	4.696	mg/L	0.1034	9.391	mg/L	0.2068	2.20%
Na 330.237†	88.2	4.914	mg/L	0.1044	9.828	mg/L	0.2087	2.12%
Ni 231.604†	207.1	0.1370	mg/L	0.00358	0.2739	mg/L	0.00717	2.62%
Pb 220.353†	410.0	0.09374	mg/L	0.000870	0.1875	mg/L	0.00174	0.93%
Sb 206.836†	14.6	0.02282	mg/L	0.004145	0.04563	mg/L	0.008290	18.17%
Se 196.026†	-50.9	-0.05713	mg/L	0.008869	-0.1143	mg/L	0.01774	15.52%
Si 288.158†	2767.0	2.313	mg/L	0.0292	4.625	mg/L	0.0585	1.26%
Sn 189.927†	-26.5	-0.00415	mg/L	0.002144	-0.00829	mg/L	0.004289	51.71%
Sr 421.552†	276188.9	0.4811	mg/L	0.00975	0.9621	mg/L	0.01949	2.03%
Ti 334.903†	168902.6	8.108	mg/L	0.1716	16.22	mg/L	0.343	2.12%
Tl 190.801†	-15.2	-0.02630	mg/L	0.004591	-0.05259	mg/L	0.009183	17.46%
V 292.402†	105160.5	0.4902	mg/L	0.00246	0.9803	mg/L	0.00493	0.50%
Zn 206.200†	414.1	0.5596	mg/L	0.00836	1.119	mg/L	0.0167	1.49%

Sequence No.: 27
Sample ID: JQ33 H SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 7/31/2006 4:47:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 H SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ33 H SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1464459.6	112.3	%	0.61				0.54%
ScR 361.383	169422.7	112.7	%	0.78				0.70%
Ag 328.068†	-2045.4	0.00008	mg/L	0.000270	0.00016	mg/L	0.000540	327.45%
Al 308.215†	216993.2	184.9	mg/L	0.39	369.9	mg/L	0.77	0.21%
As 188.979†	56.2	0.03986	mg/L	0.005278	0.07972	mg/L	0.010556	13.24%
B 249.677†	24.4	0.00629	mg/L	0.001673	0.01258	mg/L	0.003346	26.59%
Ba 233.527†	2223.3	0.9131	mg/L	0.00699	1.826	mg/L	0.0140	0.77%
Be 313.042†	1965.5	0.00292	mg/L	0.000029	0.00584	mg/L	0.000058	1.00%
Ca 317.933†	588824.0	39.13	mg/L	0.157	78.27	mg/L	0.314	0.40%
Cd 228.802†	58.9	0.00010	mg/L	0.000070	0.00019	mg/L	0.000141	73.51%
Co 228.616†	2797.4	0.08746	mg/L	0.000920	0.1749	mg/L	0.00184	1.05%
Cr 267.716†	1065.9	0.1808	mg/L	0.00084	0.3616	mg/L	0.00168	0.47%
Cu 324.752†	50127.9	0.2440	mg/L	0.00099	0.4879	mg/L	0.00198	0.41%
Fe 273.955†	175019.5	212.9	mg/L	0.76	425.7	mg/L	1.53	0.36%
K 766.490†	6183.7	5.892	mg/L	0.0279	11.78	mg/L	0.056	0.47%
Mg 279.077†	39855.2	36.01	mg/L	0.183	72.03	mg/L	0.367	0.51%
Mn 257.610†	90137.2	3.881	mg/L	0.0149	7.761	mg/L	0.0298	0.38%
Mo 202.031†	15.3	0.00512	mg/L	0.000034	0.01024	mg/L	0.000069	0.67%
Na 589.592†	24940.3	4.673	mg/L	0.0184	9.345	mg/L	0.0367	0.39%
Na 330.237†	91.1	5.118	mg/L	0.0681	10.24	mg/L	0.136	1.33%
Ni 231.604†	223.3	0.1477	mg/L	0.00371	0.2954	mg/L	0.00741	2.51%
Pb 220.353†	458.5	0.1047	mg/L	0.00110	0.2094	mg/L	0.00220	1.05%
Sb 206.836†	16.0	0.02478	mg/L	0.002895	0.04955	mg/L	0.005790	11.69%
Se 196.026†	-56.1	-0.06305	mg/L	0.008021	-0.1261	mg/L	0.01604	12.72%
Si 288.158†	3010.3	2.516	mg/L	0.0185	5.032	mg/L	0.0369	0.73%
Sn 189.927†	-31.8	-0.00566	mg/L	0.001218	-0.01131	mg/L	0.002437	21.54%
Sr 421.552†	284567.1	0.4957	mg/L	0.00123	0.9913	mg/L	0.00245	0.25%
Ti 334.903†	178946.4	8.590	mg/L	0.0262	17.18	mg/L	0.052	0.31%
Tl 190.801†	-19.3	-0.03152	mg/L	0.005788	-0.06305	mg/L	0.011576	18.36%
V 292.402†	111882.9	0.5216	mg/L	0.00437	1.043	mg/L	0.0087	0.84%
Zn 206.200†	440.7	0.5955	mg/L	0.00391	1.191	mg/L	0.0078	0.66%

Sequence No.: 28
Sample ID: JQ33 I SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 7/31/2006 4:53:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 I SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ33 I SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1479390.6	113.5	%	0.54				0.47%
ScR 361.383	173152.3	115.1	%	1.07				0.93%
Ag 328.068†	-1661.3	0.00018	mg/L	0.000221	0.00037	mg/L	0.000442	119.90%
Al 308.215†	191481.1	163.2	mg/L	0.46	326.4	mg/L	0.92	0.28%
As 188.979†	47.7	0.03306	mg/L	0.006249	0.06612	mg/L	0.012498	18.90%
B 249.677†	26.3	0.00733	mg/L	0.001695	0.01466	mg/L	0.003390	23.12%
Ba 233.527†	2333.5	0.9617	mg/L	0.01027	1.923	mg/L	0.0205	1.07%
Be 313.042†	1673.9	0.00250	mg/L	0.000067	0.00500	mg/L	0.000134	2.67%
Ca 317.933†	499627.5	33.20	mg/L	0.066	66.41	mg/L	0.133	0.20%
Cd 228.802†	41.2	-0.00025	mg/L	0.000127	-0.00050	mg/L	0.000255	50.61%
Co 228.616†	2355.1	0.07352	mg/L	0.000420	0.1470	mg/L	0.00084	0.57%
Cr 267.716†	917.4	0.1550	mg/L	0.00145	0.3101	mg/L	0.00291	0.94%
Cu 324.752†	42393.9	0.2061	mg/L	0.00068	0.4121	mg/L	0.00135	0.33%
Fe 273.955†	145923.4	177.5	mg/L	0.74	355.0	mg/L	1.48	0.42%
K 766.490†	5298.4	5.049	mg/L	0.0548	10.10	mg/L	0.110	1.09%
Mg 279.077†	33739.0	30.49	mg/L	0.053	60.98	mg/L	0.106	0.17%
Mn 257.610†	84173.3	3.624	mg/L	0.0040	7.248	mg/L	0.0079	0.11%
Mo 202.031†	9.7	0.00409	mg/L	0.000296	0.00817	mg/L	0.000592	7.24%
Na 589.592†	20219.3	3.788	mg/L	0.0121	7.576	mg/L	0.0243	0.32%
Na 330.237†	76.5	4.338	mg/L	0.1091	8.676	mg/L	0.2182	2.51%
Ni 231.604†	192.1	0.1271	mg/L	0.00160	0.2541	mg/L	0.00320	1.26%
Pb 220.353†	270.3	0.07221	mg/L	0.000345	0.1444	mg/L	0.00069	0.48%
Sb 206.836†	12.7	0.02009	mg/L	0.003863	0.04017	mg/L	0.007726	19.23%
Se 196.026†	-53.5	-0.06007	mg/L	0.001734	-0.1201	mg/L	0.00347	2.89%
Si 288.158†	7608.2	6.358	mg/L	0.0696	12.72	mg/L	0.139	1.09%
Sn 189.927†	-27.0	-0.00480	mg/L	0.000780	-0.00960	mg/L	0.001561	16.25%
Sr 421.552†	226512.1	0.3945	mg/L	0.00082	0.7891	mg/L	0.00164	0.21%
Ti 334.903†	153456.3	7.366	mg/L	0.0124	14.73	mg/L	0.025	0.17%
Tl 190.801†	-14.6	-0.02468	mg/L	0.005360	-0.04937	mg/L	0.010719	21.71%
V 292.402†	93100.2	0.4340	mg/L	0.00117	0.8680	mg/L	0.00234	0.27%
Zn 206.200†	357.8	0.4833	mg/L	0.00706	0.9667	mg/L	0.01411	1.46%

Sequence No.: 29
Sample ID: JQ33 J SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 7/31/2006 4:59:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 J SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ33 J SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1504945.4	115.4	%	0.15				0.13%
ScR 361.383	176017.8	117.0	%	0.28				0.24%
Ag 328.068†	-1889.6	0.00012	mg/L	0.000036	0.00023	mg/L	0.000072	31.11%
Al 308.215†	196865.1	167.8	mg/L	0.46	335.5	mg/L	0.93	0.28%
As 188.979†	49.2	0.03296	mg/L	0.003958	0.06591	mg/L	0.007916	12.01%
B 249.677†	25.8	0.00699	mg/L	0.001057	0.01398	mg/L	0.002114	15.12%
Ba 233.527†	2096.2	0.8611	mg/L	0.00635	1.722	mg/L	0.0127	0.74%
Be 313.042†	1799.2	0.00265	mg/L	0.000019	0.00530	mg/L	0.000039	0.73%
Ca 317.933†	526886.9	35.02	mg/L	0.104	70.03	mg/L	0.207	0.30%
Cd 228.802†	51.4	-0.00004	mg/L	0.000093	-0.00007	mg/L	0.000186	252.05%
Co 228.616†	2629.7	0.08226	mg/L	0.000348	0.1645	mg/L	0.00070	0.42%
Cr 267.716†	1046.3	0.1771	mg/L	0.00094	0.3543	mg/L	0.00188	0.53%
Cu 324.752†	47240.3	0.2296	mg/L	0.00020	0.4592	mg/L	0.00040	0.09%
Fe 273.955†	162169.1	197.2	mg/L	0.99	394.5	mg/L	1.98	0.50%
K 766.490†	5521.1	5.261	mg/L	0.0132	10.52	mg/L	0.026	0.25%
Mg 279.077†	35812.7	32.36	mg/L	0.081	64.71	mg/L	0.161	0.25%
Mn 257.610†	81421.8	3.506	mg/L	0.0128	7.011	mg/L	0.0256	0.37%
Mo 202.031†	13.9	0.00466	mg/L	0.000122	0.00932	mg/L	0.000244	2.62%
Na 589.592†	22983.3	4.306	mg/L	0.0195	8.612	mg/L	0.0391	0.45%
Na 330.237†	80.3	4.617	mg/L	0.2885	9.234	mg/L	0.5770	6.25%
Ni 231.604†	207.1	0.1370	mg/L	0.00406	0.2739	mg/L	0.00811	2.96%
Pb 220.353†	368.1	0.08782	mg/L	0.000126	0.1756	mg/L	0.00025	0.14%
Sb 206.836†	12.0	0.01974	mg/L	0.001518	0.03948	mg/L	0.003036	7.69%
Se 196.026†	-54.8	-0.06135	mg/L	0.005204	-0.1227	mg/L	0.01041	8.48%
Si 288.158†	3099.6	2.591	mg/L	0.0248	5.181	mg/L	0.0496	0.96%
Sn 189.927†	-16.4	-0.00136	mg/L	0.000662	-0.00273	mg/L	0.001324	48.51%
Sr 421.552†	258032.0	0.4494	mg/L	0.00085	0.8989	mg/L	0.00170	0.19%
Ti 334.903†	167179.2	8.025	mg/L	0.0236	16.05	mg/L	0.047	0.29%
Tl 190.801†	-16.3	-0.02750	mg/L	0.004875	-0.05499	mg/L	0.009749	17.73%
V 292.402†	104987.7	0.4895	mg/L	0.00026	0.9789	mg/L	0.00051	0.05%
Zn 206.200†	403.4	0.5451	mg/L	0.00573	1.090	mg/L	0.0115	1.05%

Sequence No.: 30
Sample ID: JQ33 K SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 46
Date Collected: 7/31/2006 5:06:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 K SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ33 K SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1492059.0	114.5	%	0.66				0.58%
ScR 361.383	175862.2	116.9	%	0.74				0.63%
Ag 328.068†	-2075.8	0.00009	mg/L	0.000156	0.00018	mg/L	0.000312	171.46%
Al 308.215†	214710.3	183.0	mg/L	0.38	366.0	mg/L	0.76	0.21%
As 188.979†	52.5	0.03415	mg/L	0.004969	0.06829	mg/L	0.009937	14.55%
B 249.677†	16.2	0.00325	mg/L	0.002248	0.00649	mg/L	0.004497	69.25%
Ba 233.527†	2315.6	0.9514	mg/L	0.00242	1.903	mg/L	0.0048	0.25%
Be 313.042†	1991.6	0.00294	mg/L	0.000033	0.00589	mg/L	0.000066	1.12%
Ca 317.933†	593202.6	39.42	mg/L	0.128	78.85	mg/L	0.256	0.32%
Cd 228.802†	52.5	-0.00019	mg/L	0.000034	-0.00038	mg/L	0.000069	18.26%
Co 228.616†	2849.2	0.08892	mg/L	0.000499	0.1778	mg/L	0.00100	0.56%
Cr 267.716†	1122.4	0.1901	mg/L	0.00151	0.3801	mg/L	0.00301	0.79%
Cu 324.752†	48298.6	0.2359	mg/L	0.00239	0.4719	mg/L	0.00478	1.01%
Fe 273.955†	177356.2	215.7	mg/L	1.29	431.4	mg/L	2.57	0.60%
K 766.490†	6091.8	5.805	mg/L	0.0658	11.61	mg/L	0.132	1.13%
Mg 279.077†	40083.2	36.22	mg/L	0.105	72.44	mg/L	0.209	0.29%
Mn 257.610†	88889.2	3.827	mg/L	0.0130	7.654	mg/L	0.0260	0.34%
Mo 202.031†	12.4	0.00472	mg/L	0.000413	0.00944	mg/L	0.000826	8.75%
Na 589.592†	25202.5	4.722	mg/L	0.0139	9.443	mg/L	0.0277	0.29%
Na 330.237†	88.9	5.091	mg/L	0.2454	10.18	mg/L	0.491	4.82%
Ni 231.604†	227.0	0.1502	mg/L	0.00520	0.3003	mg/L	0.01040	3.46%
Pb 220.353†	355.5	0.08887	mg/L	0.000346	0.1777	mg/L	0.00069	0.39%
Sb 206.836†	15.4	0.02421	mg/L	0.003345	0.04843	mg/L	0.006691	13.82%
Se 196.026†	-61.5	-0.06871	mg/L	0.003109	-0.1374	mg/L	0.00622	4.52%
Si 288.158†	3367.4	2.814	mg/L	0.0135	5.629	mg/L	0.0270	0.48%
Sn 189.927†	-23.2	-0.00295	mg/L	0.001448	-0.00589	mg/L	0.002896	49.15%
Sr 421.552†	285478.5	0.4972	mg/L	0.00143	0.9945	mg/L	0.00286	0.29%
Ti 334.903†	183263.0	8.797	mg/L	0.0267	17.59	mg/L	0.053	0.30%
Tl 190.801†	-18.6	-0.03094	mg/L	0.003848	-0.06188	mg/L	0.007696	12.44%
V 292.402†	115106.8	0.5366	mg/L	0.00710	1.073	mg/L	0.0142	1.32%
Zn 206.200†	416.5	0.5624	mg/L	0.00353	1.125	mg/L	0.0071	0.63%

Sequence No.: 31
Sample ID: CV 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 5:12:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1440831.5	110.5	%	1.06				0.96%
ScR 361.383	171424.0	114.0	%	2.71				2.38%
Ag 328.068†	229344.4	0.9304	mg/L	0.00452	0.9304	mg/L	0.00452	0.49%
Al 308.215†	2281.5	1.909	mg/L	0.0284	1.909	mg/L	0.0284	1.49%
As 188.979†	1320.4	1.897	mg/L	0.0113	1.897	mg/L	0.0113	0.60%
B 249.677†	2567.3	0.9376	mg/L	0.01282	0.9376	mg/L	0.01282	1.37%
Ba 233.527†	2332.3	0.9737	mg/L	0.01750	0.9737	mg/L	0.01750	1.80%
Be 313.042†	496041.9	0.9422	mg/L	0.01109	0.9422	mg/L	0.01109	1.18%
Ca 317.933†	29496.7	1.960	mg/L	0.0244	1.960	mg/L	0.0244	1.25%
Cd 228.802†	24163.0	0.9775	mg/L	0.00463	0.9775	mg/L	0.00463	0.47%
Co 228.616†	25174.5	0.9377	mg/L	0.00552	0.9377	mg/L	0.00552	0.59%
Cr 267.716†	5918.3	0.9505	mg/L	0.01905	0.9505	mg/L	0.01905	2.00%
Cu 324.752†	215579.6	0.9713	mg/L	0.00494	0.9713	mg/L	0.00494	0.51%
Fe 273.955†	1650.2	2.005	mg/L	0.0385	2.005	mg/L	0.0385	1.92%
K 766.490†	19897.1	18.96	mg/L	0.279	18.96	mg/L	0.279	1.47%
Mg 279.077†	2158.0	1.962	mg/L	0.0409	1.962	mg/L	0.0409	2.08%
Mn 257.610†	22218.1	0.9575	mg/L	0.01292	0.9575	mg/L	0.01292	1.35%
Mo 202.031†	7750.4	0.9531	mg/L	0.00165	0.9531	mg/L	0.00165	0.17%
Na 589.592†	249177.3	46.68	mg/L	0.527	46.68	mg/L	0.527	1.13%
Na 330.237†	1287.9	48.95	mg/L	0.737	48.95	mg/L	0.737	1.51%
Ni 231.604†	1450.4	0.9603	mg/L	0.01663	0.9603	mg/L	0.01663	1.73%
Pb 220.353†	12733.8	1.916	mg/L	0.0150	1.916	mg/L	0.0150	0.78%
Sb 206.836†	1756.8	2.021	mg/L	0.0077	2.021	mg/L	0.0077	0.38%
Se 196.026†	1813.2	1.896	mg/L	0.0078	1.896	mg/L	0.0078	0.41%
Si 288.158†	2424.8	2.028	mg/L	0.0370	2.028	mg/L	0.0370	1.82%
Sn 189.927†	2884.9	0.9069	mg/L	0.00324	0.9069	mg/L	0.00324	0.36%
Sr 421.552†	538456.0	0.9379	mg/L	0.01214	0.9379	mg/L	0.01214	1.29%
Ti 334.903†	20042.9	0.9609	mg/L	0.01470	0.9609	mg/L	0.01470	1.53%
Tl 190.801†	1605.5	1.859	mg/L	0.0083	1.859	mg/L	0.0083	0.44%
V 292.402†	202283.4	0.9541	mg/L	0.00472	0.9541	mg/L	0.00472	0.49%
Zn 206.200†	732.0	0.9971	mg/L	0.01745	0.9971	mg/L	0.01745	1.75%

Sequence No.: 32
Sample ID: CB 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 5:19:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1396682.8	107.1	%	0.29				0.27%
ScR 361.383	163628.2	108.8	%	1.58				1.45%
Ag 328.068†	57.4	0.00023	mg/L	0.000175	0.00023	mg/L	0.000175	75.18%
Al 308.215†	43.4	0.03699	mg/L	0.011026	0.03699	mg/L	0.011026	29.81%
As 188.979†	2.8	0.00410	mg/L	0.002735	0.00410	mg/L	0.002735	66.71%
B 249.677†	7.0	0.00255	mg/L	0.003528	0.00255	mg/L	0.003528	138.38%
Ba 233.527†	0.5	0.00019	mg/L	0.000869	0.00019	mg/L	0.000869	462.75%
Be 313.042†	-60.2	-0.00011	mg/L	0.000010	-0.00011	mg/L	0.000010	8.96%
Ca 317.933†	17.5	0.00116	mg/L	0.000650	0.00116	mg/L	0.000650	55.99%
Cd 228.802†	-2.4	-0.00010	mg/L	0.000119	-0.00010	mg/L	0.000119	114.52%
Co 228.616†	5.9	0.00022	mg/L	0.000154	0.00022	mg/L	0.000154	69.45%
Cr 267.716†	2.2	0.00035	mg/L	0.001182	0.00035	mg/L	0.001182	337.25%
Cu 324.752†	-258.0	-0.00116	mg/L	0.000313	-0.00116	mg/L	0.000313	26.90%
Fe 273.955†	1.9	0.00228	mg/L	0.003650	0.00228	mg/L	0.003650	159.86%
K 766.490†	-90.9	-0.08660	mg/L	0.027472	-0.08660	mg/L	0.027472	31.72%
Mg 279.077†	22.4	0.02032	mg/L	0.013039	0.02032	mg/L	0.013039	64.15%
Mn 257.610†	-9.2	-0.00040	mg/L	0.000118	-0.00040	mg/L	0.000118	29.82%
Mo 202.031†	3.7	0.00046	mg/L	0.000373	0.00046	mg/L	0.000373	81.15%
Na 589.592†	84.3	0.01580	mg/L	0.003591	0.01580	mg/L	0.003591	22.73%
Na 330.237†	11.4	0.4326	mg/L	0.67657	0.4326	mg/L	0.67657	156.41%
Ni 231.604†	-0.2	-0.00010	mg/L	0.001748	-0.00010	mg/L	0.001748	>999.9%
Pb 220.353†	-8.6	-0.00128	mg/L	0.000447	-0.00128	mg/L	0.000447	34.92%
Sb 206.836†	4.4	0.00513	mg/L	0.001535	0.00513	mg/L	0.001535	29.93%
Se 196.026†	6.4	0.00673	mg/L	0.008340	0.00673	mg/L	0.008340	124.02%
Si 288.158†	15.4	0.01289	mg/L	0.005066	0.01289	mg/L	0.005066	39.29%
Sn 189.927†	5.5	0.00174	mg/L	0.001733	0.00174	mg/L	0.001733	99.69%
Sr 421.552†	93.5	0.00016	mg/L	0.000031	0.00016	mg/L	0.000031	18.99%
Ti 334.903†	-8.9	-0.00043	mg/L	0.000613	-0.00043	mg/L	0.000613	143.36%
Tl 190.801†	1.4	0.00162	mg/L	0.003117	0.00162	mg/L	0.003117	192.33%
V 292.402†	14.4	0.00007	mg/L	0.000041	0.00007	mg/L	0.000041	58.82%
Zn 206.200†	-0.3	-0.00035	mg/L	0.002640	-0.00035	mg/L	0.002640	746.86%

Sequence No.: 33
Sample ID: JQ33 L SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 7/31/2006 5:25:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 L SWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ33 L SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1440452.0	110.5	%	0.27				0.24%
ScR 361.383	169671.6	112.8	%	0.33				0.29%
Ag 328.068†	-2041.7	0.00031	mg/L	0.000248	0.00063	mg/L	0.000496	79.30%
Al 308.215†	223421.0	190.4	mg/L	0.76	380.8	mg/L	1.53	0.40%
As 188.979†	56.1	0.03830	mg/L	0.006208	0.07659	mg/L	0.012416	16.21%
B 249.677†	40.5	0.01206	mg/L	0.001412	0.02412	mg/L	0.002824	11.71%
Ba 233.527†	2329.9	0.9572	mg/L	0.00608	1.914	mg/L	0.0122	0.63%
Be 313.042†	2094.5	0.00314	mg/L	0.000053	0.00627	mg/L	0.000106	1.69%
Ca 317.933†	622462.3	41.37	mg/L	0.112	82.74	mg/L	0.223	0.27%
Cd 228.802†	54.2	-0.00015	mg/L	0.000051	-0.00031	mg/L	0.000102	33.23%
Co 228.616†	2863.7	0.08933	mg/L	0.000399	0.1787	mg/L	0.00080	0.45%
Cr 267.716†	1115.9	0.1890	mg/L	0.00012	0.3779	mg/L	0.00025	0.07%
Cu 324.752†	50018.5	0.2439	mg/L	0.00115	0.4879	mg/L	0.00231	0.47%
Fe 273.955†	179748.7	218.6	mg/L	0.87	437.2	mg/L	1.74	0.40%
K 766.490†	6215.7	5.923	mg/L	0.0558	11.85	mg/L	0.112	0.94%
Mg 279.077†	41491.3	37.49	mg/L	0.188	74.99	mg/L	0.375	0.50%
Mn 257.610†	94347.7	4.062	mg/L	0.0023	8.124	mg/L	0.0047	0.06%
Mo 202.031†	14.7	0.00514	mg/L	0.000286	0.01027	mg/L	0.000571	5.56%
Na 589.592†	24954.7	4.675	mg/L	0.0125	9.351	mg/L	0.0249	0.27%
Na 330.237†	78.9	4.712	mg/L	0.1944	9.424	mg/L	0.3889	4.13%
Ni 231.604†	238.4	0.1577	mg/L	0.00364	0.3154	mg/L	0.00729	2.31%
Pb 220.353†	393.5	0.09600	mg/L	0.000680	0.1920	mg/L	0.00136	0.71%
Sb 206.836†	16.1	0.02513	mg/L	0.004923	0.05026	mg/L	0.009845	19.59%
Se 196.026†	-54.7	-0.06181	mg/L	0.000701	-0.1236	mg/L	0.00140	1.13%
Si 288.158†	5581.7	4.665	mg/L	0.0149	9.330	mg/L	0.0298	0.32%
Sn 189.927†	-27.4	-0.00396	mg/L	0.000775	-0.00792	mg/L	0.001549	19.55%
Sr 421.552†	296083.7	0.5157	mg/L	0.00165	1.031	mg/L	0.0033	0.32%
Ti 334.903†	185567.2	8.908	mg/L	0.0248	17.82	mg/L	0.050	0.28%
Tl 190.801†	-18.8	-0.03131	mg/L	0.006172	-0.06263	mg/L	0.012343	19.71%
V 292.402†	115759.5	0.5396	mg/L	0.00200	1.079	mg/L	0.0040	0.37%
Zn 206.200†	447.3	0.6045	mg/L	0.00108	1.209	mg/L	0.0022	0.18%

Sequence No.: 34
Sample ID: JQ33 M SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 7/31/2006 5:31:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 M SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ33 M SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1472975.4	113.0	%	0.35				0.31%
ScR 361.383	170068.7	113.1	%	0.63				0.56%
Ag 328.068†	-1151.7	0.00341	mg/L	0.000360	0.00683	mg/L	0.000721	10.55%
Al 308.215†	200268.9	170.7	mg/L	0.38	341.3	mg/L	0.77	0.22%
As 188.979†	68.7	0.06032	mg/L	0.005575	0.1206	mg/L	0.01115	9.24%
B 249.677†	28.1	0.00782	mg/L	0.001558	0.01563	mg/L	0.003117	19.94%
Ba 233.527†	1924.5	0.7890	mg/L	0.00426	1.578	mg/L	0.0085	0.54%
Be 313.042†	1804.0	0.00265	mg/L	0.000049	0.00529	mg/L	0.000098	1.86%
Ca 317.933†	507727.4	33.74	mg/L	0.078	67.49	mg/L	0.157	0.23%
Cd 228.802†	275.0	0.00894	mg/L	0.000146	0.01787	mg/L	0.000292	1.63%
Co 228.616†	2636.0	0.08223	mg/L	0.000380	0.1645	mg/L	0.00076	0.46%
Cr 267.716†	1128.2	0.1907	mg/L	0.00211	0.3815	mg/L	0.00421	1.10%
Cu 324.752†	76796.6	0.3634	mg/L	0.00139	0.7269	mg/L	0.00279	0.38%
Fe 273.955†	167382.4	203.6	mg/L	1.41	407.2	mg/L	2.83	0.69%
K 766.490†	5904.4	5.626	mg/L	0.0516	11.25	mg/L	0.103	0.92%
Mg 279.077†	37387.6	33.78	mg/L	0.102	67.56	mg/L	0.204	0.30%
Mn 257.610†	75759.8	3.262	mg/L	0.0109	6.524	mg/L	0.0217	0.33%
Mo 202.031†	30.0	0.00666	mg/L	0.000499	0.01332	mg/L	0.000997	7.49%
Na 589.592†	25578.6	4.792	mg/L	0.0293	9.584	mg/L	0.0585	0.61%
Na 330.237†	94.0	4.776	mg/L	0.1619	9.551	mg/L	0.3237	3.39%
Ni 231.604†	225.6	0.1492	mg/L	0.00287	0.2984	mg/L	0.00575	1.93%
Pb 220.353†	9423.9	1.449	mg/L	0.0093	2.899	mg/L	0.0186	0.64%
Sb 206.836†	15.7	0.02386	mg/L	0.001546	0.04772	mg/L	0.003093	6.48%
Se 196.026†	-52.4	-0.05853	mg/L	0.007700	-0.1171	mg/L	0.01540	13.15%
Si 288.158†	2878.2	2.406	mg/L	0.0145	4.811	mg/L	0.0291	0.60%
Sn 189.927†	-13.7	-0.00073	mg/L	0.001726	-0.00145	mg/L	0.003451	237.66%
Sr 421.552†	251800.2	0.4386	mg/L	0.00116	0.8772	mg/L	0.00232	0.26%
Ti 334.903†	169462.9	8.135	mg/L	0.0234	16.27	mg/L	0.047	0.29%
Tl 190.801†	-17.5	-0.02900	mg/L	0.004817	-0.05800	mg/L	0.009634	16.61%
V 292.402†	107008.4	0.4989	mg/L	0.00172	0.9978	mg/L	0.00343	0.34%
Zn 206.200†	1571.0	2.137	mg/L	0.0127	4.273	mg/L	0.0253	0.59%

Sequence No.: 35
Sample ID: JQ33 N SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 49
Date Collected: 7/31/2006 5:38:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 N SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ33 N SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1490539.5	114.3	%	0.20				0.17%
ScR 361.383	172133.1	114.5	%	1.06				0.93%
Ag 328.068†	-696.6	0.00565	mg/L	0.000230	0.01131	mg/L	0.000460	4.07%
Al 308.215†	200795.8	171.1	mg/L	0.50	342.2	mg/L	1.01	0.29%
As 188.979†	92.9	0.09289	mg/L	0.003916	0.1858	mg/L	0.00783	4.22%
B 249.677†	28.0	0.00762	mg/L	0.001706	0.01524	mg/L	0.003411	22.39%
Ba 233.527†	2171.3	0.8914	mg/L	0.01204	1.783	mg/L	0.0241	1.35%
Be 313.042†	1802.0	0.00259	mg/L	0.000026	0.00518	mg/L	0.000051	0.99%
Ca 317.933†	583658.3	38.79	mg/L	0.086	77.58	mg/L	0.171	0.22%
Cd 228.802†	439.3	0.01546	mg/L	0.000256	0.03093	mg/L	0.000512	1.65%
Co 228.616†	2823.4	0.08790	mg/L	0.000223	0.1758	mg/L	0.00045	0.25%
Cr 267.716†	1250.2	0.2109	mg/L	0.00240	0.4218	mg/L	0.00481	1.14%
Cu 324.752†	132985.9	0.6175	mg/L	0.00537	1.235	mg/L	0.0107	0.87%
Fe 273.955†	174905.8	212.7	mg/L	0.86	425.5	mg/L	1.72	0.41%
K 766.490†	5849.4	5.574	mg/L	0.0282	11.15	mg/L	0.056	0.51%
Mg 279.077†	38570.5	34.85	mg/L	0.048	69.70	mg/L	0.096	0.14%
Mn 257.610†	75555.2	3.253	mg/L	0.0115	6.507	mg/L	0.0231	0.35%
Mo 202.031†	29.6	0.00661	mg/L	0.000206	0.01321	mg/L	0.000411	3.11%
Na 589.592†	29093.0	5.451	mg/L	0.0215	10.90	mg/L	0.043	0.39%
Na 330.237†	117.8	5.527	mg/L	0.2072	11.05	mg/L	0.414	3.75%
Ni 231.604†	280.0	0.1852	mg/L	0.00061	0.3704	mg/L	0.00123	0.33%
Pb 220.353†	16527.7	2.517	mg/L	0.0330	5.034	mg/L	0.0659	1.31%
Sb 206.836†	16.9	0.02564	mg/L	0.001702	0.05128	mg/L	0.003404	6.64%
Se 196.026†	-60.7	-0.06715	mg/L	0.002543	-0.1343	mg/L	0.00509	3.79%
Si 288.158†	3161.1	2.642	mg/L	0.0348	5.284	mg/L	0.0696	1.32%
Sn 189.927†	-6.6	0.00232	mg/L	0.001398	0.00464	mg/L	0.002797	60.28%
Sr 421.552†	300140.1	0.5228	mg/L	0.00164	1.046	mg/L	0.0033	0.31%
Ti 334.903†	182565.3	8.764	mg/L	0.0276	17.53	mg/L	0.055	0.32%
Tl 190.801†	-19.1	-0.03143	mg/L	0.003732	-0.06286	mg/L	0.007463	11.87%
V 292.402†	114070.7	0.5318	mg/L	0.00533	1.064	mg/L	0.0107	1.00%
Zn 206.200†	2341.1	3.186	mg/L	0.0402	6.373	mg/L	0.0803	1.26%

Sequence No.: 36
Sample ID: JQ33 O SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 50
Date Collected: 7/31/2006 5:44:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 O SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ33 O SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1506492.9	115.6	%	0.60				0.52%
ScR 361.383	178023.0	118.4	%	0.66				0.56%
Ag 328.068†	-124.6	0.00814	mg/L	0.000168	0.01627	mg/L	0.000336	2.07%
Al 308.215†	197179.7	168.0	mg/L	0.38	336.1	mg/L	0.77	0.23%
As 188.979†	89.2	0.08660	mg/L	0.002872	0.1732	mg/L	0.00574	3.32%
B 249.677†	37.1	0.01078	mg/L	0.000814	0.02157	mg/L	0.001628	7.55%
Ba 233.527†	2240.9	0.9201	mg/L	0.00495	1.840	mg/L	0.0099	0.54%
Be 313.042†	1664.5	0.00232	mg/L	0.000058	0.00464	mg/L	0.000116	2.50%
Ca 317.933†	637304.5	42.35	mg/L	0.083	84.71	mg/L	0.166	0.20%
Cd 228.802†	688.2	0.02551	mg/L	0.000392	0.05102	mg/L	0.000785	1.54%
Co 228.616†	3373.5	0.1077	mg/L	0.00041	0.2153	mg/L	0.00082	0.38%
Cr 267.716†	1215.7	0.2058	mg/L	0.00111	0.4116	mg/L	0.00223	0.54%
Cu 324.752†	134502.6	0.6247	mg/L	0.00458	1.249	mg/L	0.0092	0.73%
Fe 273.955†	179271.9	218.0	mg/L	0.58	436.1	mg/L	1.15	0.26%
K 766.490†	5625.9	5.361	mg/L	0.0421	10.72	mg/L	0.084	0.79%
Mg 279.077†	36935.5	33.36	mg/L	0.030	66.72	mg/L	0.059	0.09%
Mn 257.610†	84257.0	3.628	mg/L	0.0098	7.257	mg/L	0.0196	0.27%
Mo 202.031†	24.1	0.00589	mg/L	0.000520	0.01179	mg/L	0.001040	8.82%
Na 589.592†	31873.1	5.971	mg/L	0.0202	11.94	mg/L	0.040	0.34%
Na 330.237†	149.9	6.324	mg/L	0.4097	12.65	mg/L	0.819	6.48%
Ni 231.604†	290.9	0.1924	mg/L	0.00039	0.3848	mg/L	0.00079	0.20%
Pb 220.353†	22624.8	3.433	mg/L	0.0154	6.865	mg/L	0.0308	0.45%
Sb 206.836†	20.6	0.03025	mg/L	0.002056	0.06050	mg/L	0.004112	6.80%
Se 196.026†	-51.8	-0.05834	mg/L	0.007298	-0.1167	mg/L	0.01460	12.51%
Si 288.158†	7135.2	5.963	mg/L	0.0193	11.93	mg/L	0.039	0.32%
Sn 189.927†	-14.6	0.00048	mg/L	0.001933	0.00096	mg/L	0.003865	402.01%
Sr 421.552†	333517.1	0.5809	mg/L	0.00177	1.162	mg/L	0.0035	0.30%
Ti 334.903†	189568.7	9.100	mg/L	0.0212	18.20	mg/L	0.042	0.23%
Tl 190.801†	-15.5	-0.02762	mg/L	0.005520	-0.05524	mg/L	0.011040	19.99%
V 292.402†	115610.8	0.5389	mg/L	0.00331	1.078	mg/L	0.0066	0.61%
Zn 206.200†	3728.3	5.077	mg/L	0.0183	10.15	mg/L	0.037	0.36%

Sequence No.: 37
Sample ID: JQ33 P SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 51
Date Collected: 7/31/2006 5:51:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 P SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ33 P SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1523979.1	116.9	%	0.44				0.37%
ScR 361.383	177887.1	118.3	%	1.00				0.85%
Ag 328.068†	-271.1	0.00733	mg/L	0.000201	0.01466	mg/L	0.000402	2.74%
Al 308.215†	202492.0	172.6	mg/L	0.33	345.1	mg/L	0.66	0.19%
As 188.979†	84.3	0.08118	mg/L	0.006158	0.1624	mg/L	0.01232	7.59%
B 249.677†	31.0	0.00880	mg/L	0.002071	0.01759	mg/L	0.004142	23.54%
Ba 233.527†	2081.7	0.8538	mg/L	0.00892	1.708	mg/L	0.0178	1.04%
Be 313.042†	1799.1	0.00262	mg/L	0.000049	0.00525	mg/L	0.000099	1.88%
Ca 317.933†	540866.1	35.95	mg/L	0.161	71.89	mg/L	0.322	0.45%
Cd 228.802†	527.2	0.01903	mg/L	0.000177	0.03806	mg/L	0.000355	0.93%
Co 228.616†	2935.9	0.09252	mg/L	0.000387	0.1850	mg/L	0.00077	0.42%
Cr 267.716†	1220.2	0.2062	mg/L	0.00121	0.4124	mg/L	0.00241	0.58%
Cu 324.752†	129162.8	0.6004	mg/L	0.00297	1.201	mg/L	0.0059	0.49%
Fe 273.955†	176215.3	214.3	mg/L	0.41	428.6	mg/L	0.82	0.19%
K 766.490†	5695.2	5.427	mg/L	0.0021	10.85	mg/L	0.004	0.04%
Mg 279.077†	36119.4	32.62	mg/L	0.068	65.24	mg/L	0.136	0.21%
Mn 257.610†	90597.8	3.901	mg/L	0.0081	7.803	mg/L	0.0162	0.21%
Mo 202.031†	25.8	0.00621	mg/L	0.000256	0.01243	mg/L	0.000512	4.12%
Na 589.592†	24082.5	4.512	mg/L	0.0089	9.024	mg/L	0.0177	0.20%
Na 330.237†	103.7	4.805	mg/L	0.4132	9.609	mg/L	0.8265	8.60%
Ni 231.604†	288.7	0.1909	mg/L	0.00204	0.3819	mg/L	0.00407	1.07%
Pb 220.353†	17199.7	2.618	mg/L	0.0241	5.236	mg/L	0.0481	0.92%
Sb 206.836†	17.3	0.02590	mg/L	0.007827	0.05180	mg/L	0.015653	30.22%
Se 196.026†	-54.3	-0.06123	mg/L	0.005770	-0.1225	mg/L	0.01154	9.42%
Si 288.158†	3620.8	3.026	mg/L	0.0106	6.052	mg/L	0.0212	0.35%
Sn 189.927†	0.4	0.00410	mg/L	0.000842	0.00820	mg/L	0.001684	20.55%
Sr 421.552†	257912.6	0.4492	mg/L	0.00091	0.8985	mg/L	0.00182	0.20%
Ti 334.903†	177387.4	8.515	mg/L	0.0168	17.03	mg/L	0.034	0.20%
Tl 190.801†	-12.8	-0.02388	mg/L	0.002428	-0.04776	mg/L	0.004856	10.17%
V 292.402†	108912.4	0.5079	mg/L	0.00328	1.016	mg/L	0.0066	0.65%
Zn 206.200†	2771.6	3.773	mg/L	0.0306	7.546	mg/L	0.0611	0.81%

Sequence No.: 38
Sample ID: JQ33 Q SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 52
Date Collected: 7/31/2006 5:57:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ33 Q SWC

Analyte	Back Pressure	Flow
All	192.0 kPa	0.50 L/min

Mean Data: JQ33 Q SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1515226.8	116.2	%	0.75				0.64%
ScR 361.383	174395.7	116.0	%	0.23				0.20%
Ag 328.068†	793.5	0.01229	mg/L	0.000345	0.02457	mg/L	0.000691	2.81%
Al 308.215†	217689.2	185.5	mg/L	0.12	371.0	mg/L	0.24	0.07%
As 188.979†	92.6	0.09068	mg/L	0.005034	0.1814	mg/L	0.01007	5.55%
B 249.677†	35.1	0.01015	mg/L	0.000601	0.02030	mg/L	0.001202	5.92%
Ba 233.527†	2338.5	0.9599	mg/L	0.00185	1.920	mg/L	0.0037	0.19%
Be 313.042†	1951.4	0.00285	mg/L	0.000029	0.00569	mg/L	0.000058	1.01%
Ca 317.933†	572145.7	38.02	mg/L	0.084	76.05	mg/L	0.169	0.22%
Cd 228.802†	518.1	0.01847	mg/L	0.000077	0.03695	mg/L	0.000154	0.42%
Co 228.616†	2925.1	0.09121	mg/L	0.000575	0.1824	mg/L	0.00115	0.63%
Cr 267.716†	1280.8	0.2167	mg/L	0.00155	0.4335	mg/L	0.00310	0.71%
Cu 324.752†	136140.0	0.6333	mg/L	0.00339	1.267	mg/L	0.0068	0.53%
Fe 273.955†	189716.8	230.7	mg/L	0.71	461.5	mg/L	1.42	0.31%
K 766.490†	6109.8	5.822	mg/L	0.0312	11.64	mg/L	0.062	0.54%
Mg 279.077†	38904.3	35.14	mg/L	0.072	70.27	mg/L	0.144	0.20%
Mn 257.610†	99345.9	4.278	mg/L	0.0020	8.556	mg/L	0.0039	0.05%
Mo 202.031†	26.4	0.00652	mg/L	0.000397	0.01303	mg/L	0.000794	6.09%
Na 589.592†	24813.3	4.649	mg/L	0.0041	9.298	mg/L	0.0083	0.09%
Na 330.237†	104.8	4.942	mg/L	0.0328	9.884	mg/L	0.0655	0.66%
Ni 231.604†	270.8	0.1791	mg/L	0.00268	0.3582	mg/L	0.00536	1.50%
Pb 220.353†	21306.1	3.238	mg/L	0.0138	6.476	mg/L	0.0275	0.42%
Sb 206.836†	20.1	0.02949	mg/L	0.002945	0.05898	mg/L	0.005890	9.99%
Se 196.026†	-63.8	-0.07157	mg/L	0.005740	-0.1431	mg/L	0.01148	8.02%
Si 288.158†	5499.6	4.596	mg/L	0.0076	9.193	mg/L	0.0152	0.17%
Sn 189.927†	-7.7	0.00182	mg/L	0.002318	0.00365	mg/L	0.004637	127.06%
Sr 421.552†	278622.2	0.4853	mg/L	0.00044	0.9706	mg/L	0.00089	0.09%
Ti 334.903†	186045.0	8.931	mg/L	0.0098	17.86	mg/L	0.020	0.11%
Tl 190.801†	-18.0	-0.03037	mg/L	0.004540	-0.06073	mg/L	0.009080	14.95%
V 292.402†	117988.3	0.5503	mg/L	0.00316	1.101	mg/L	0.0063	0.57%
Zn 206.200†	2751.7	3.746	mg/L	0.0080	7.491	mg/L	0.0161	0.21%

Sequence No.: 39
Sample ID: CV 8
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 7/31/2006 6:04:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	193.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1418486.5	108.8	%	2.50				2.30%
ScR 361.383	169907.8	113.0	%	1.28				1.13%
Ag 328.068†	228309.0	0.9262	mg/L	0.00450	0.9262	mg/L	0.00450	0.49%
Al 308.215†	2283.5	1.911	mg/L	0.0119	1.911	mg/L	0.0119	0.62%
As 188.979†	1300.5	1.868	mg/L	0.0242	1.868	mg/L	0.0242	1.30%
B 249.677†	2577.3	0.9412	mg/L	0.00999	0.9412	mg/L	0.00999	1.06%
Ba 233.527†	2335.5	0.9751	mg/L	0.00739	0.9751	mg/L	0.00739	0.76%
Be 313.042†	501489.4	0.9526	mg/L	0.00339	0.9526	mg/L	0.00339	0.36%
Ca 317.933†	29836.9	1.983	mg/L	0.0094	1.983	mg/L	0.0094	0.48%
Cd 228.802†	24041.3	0.9726	mg/L	0.00710	0.9726	mg/L	0.00710	0.73%
Co 228.616†	24934.4	0.9287	mg/L	0.00799	0.9287	mg/L	0.00799	0.86%
Cr 267.716†	5928.7	0.9521	mg/L	0.00617	0.9521	mg/L	0.00617	0.65%
Cu 324.752†	214716.3	0.9674	mg/L	0.00405	0.9674	mg/L	0.00405	0.42%
Fe 273.955†	1651.8	2.007	mg/L	0.0120	2.007	mg/L	0.0120	0.60%
K 766.490†	20388.5	19.43	mg/L	0.096	19.43	mg/L	0.096	0.50%
Mg 279.077†	2144.6	1.950	mg/L	0.0159	1.950	mg/L	0.0159	0.82%
Mn 257.610†	22508.0	0.9700	mg/L	0.00365	0.9700	mg/L	0.00365	0.38%
Mo 202.031†	7650.5	0.9408	mg/L	0.00987	0.9408	mg/L	0.00987	1.05%
Na 589.592†	252334.0	47.27	mg/L	0.131	47.27	mg/L	0.131	0.28%
Na 330.237†	1290.7	49.06	mg/L	0.170	49.06	mg/L	0.170	0.35%
Ni 231.604†	1450.2	0.9602	mg/L	0.01024	0.9602	mg/L	0.01024	1.07%
Pb 220.353†	12613.2	1.898	mg/L	0.0203	1.898	mg/L	0.0203	1.07%
Sb 206.836†	1736.1	1.997	mg/L	0.0250	1.997	mg/L	0.0250	1.25%
Se 196.026†	1780.9	1.862	mg/L	0.0251	1.862	mg/L	0.0251	1.35%
Si 288.158†	2446.0	2.046	mg/L	0.0141	2.046	mg/L	0.0141	0.69%
Sn 189.927†	2838.6	0.8923	mg/L	0.00940	0.8923	mg/L	0.00940	1.05%
Sr 421.552†	546426.8	0.9518	mg/L	0.00311	0.9518	mg/L	0.00311	0.33%
Ti 334.903†	20305.6	0.9736	mg/L	0.00288	0.9736	mg/L	0.00288	0.30%
Tl 190.801†	1584.2	1.834	mg/L	0.0201	1.834	mg/L	0.0201	1.09%
V 292.402†	201011.1	0.9482	mg/L	0.00537	0.9482	mg/L	0.00537	0.57%
Zn 206.200†	735.2	1.001	mg/L	0.0078	1.001	mg/L	0.0078	0.78%

Sequence No.: 40
Sample ID: CB
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 7/31/2006 6:10:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1346310.1	103.3	%	0.31				0.30%
ScR 361.383	152833.9	101.6	%	0.47				0.46%
Ag 328.068†	25.3	0.00010	mg/L	0.000172	0.00010	mg/L	0.000172	167.31%
Al 308.215†	28.5	0.02432	mg/L	0.009163	0.02432	mg/L	0.009163	37.68%
As 188.979†	2.4	0.00346	mg/L	0.000433	0.00346	mg/L	0.000433	12.54%
B 249.677†	3.0	0.00109	mg/L	0.000647	0.00109	mg/L	0.000647	59.42%
Ba 233.527†	1.7	0.00069	mg/L	0.001137	0.00069	mg/L	0.001137	164.74%
Be 313.042†	-24.7	-0.00005	mg/L	0.000018	-0.00005	mg/L	0.000018	38.70%
Ca 317.933†	-0.9	-0.00006	mg/L	0.001547	-0.00006	mg/L	0.001547	>999.9%
Cd 228.802†	-2.4	-0.00010	mg/L	0.000116	-0.00010	mg/L	0.000116	114.18%
Co 228.616†	7.2	0.00027	mg/L	0.000268	0.00027	mg/L	0.000268	98.83%
Cr 267.716†	6.5	0.00105	mg/L	0.000799	0.00105	mg/L	0.000799	76.20%
Cu 324.752†	-175.6	-0.00079	mg/L	0.000121	-0.00079	mg/L	0.000121	15.22%
Fe 273.955†	2.8	0.00341	mg/L	0.003384	0.00341	mg/L	0.003384	99.15%
K 766.490†	-61.1	-0.05826	mg/L	0.047788	-0.05826	mg/L	0.047788	82.03%
Mg 279.077†	11.7	0.01064	mg/L	0.010881	0.01064	mg/L	0.010881	102.25%
Mn 257.610†	-4.7	-0.00020	mg/L	0.000180	-0.00020	mg/L	0.000180	88.35%
Mo 202.031†	2.5	0.00030	mg/L	0.000135	0.00030	mg/L	0.000135	44.74%
Na 589.592†	88.2	0.01652	mg/L	0.003775	0.01652	mg/L	0.003775	22.86%
Na 330.237†	-1.1	-0.04340	mg/L	0.369025	-0.04340	mg/L	0.369025	850.29%
Ni 231.604†	0.6	0.00039	mg/L	0.001870	0.00039	mg/L	0.001870	474.86%
Pb 220.353†	-0.4	-0.00005	mg/L	0.000856	-0.00005	mg/L	0.000856	>999.9%
Sb 206.836†	2.1	0.00240	mg/L	0.004285	0.00240	mg/L	0.004285	178.50%
Se 196.026†	6.7	0.00701	mg/L	0.002392	0.00701	mg/L	0.002392	34.13%
Si 288.158†	9.8	0.00823	mg/L	0.002132	0.00823	mg/L	0.002132	25.92%
Sn 189.927†	8.4	0.00263	mg/L	0.000495	0.00263	mg/L	0.000495	18.83%
Sr 421.552†	83.3	0.00015	mg/L	0.000096	0.00015	mg/L	0.000096	66.43%
Ti 334.903†	-5.3	-0.00025	mg/L	0.000476	-0.00025	mg/L	0.000476	188.34%
Tl 190.801†	3.5	0.00409	mg/L	0.001860	0.00409	mg/L	0.001860	45.46%
V 292.402†	20.2	0.00010	mg/L	0.000135	0.00010	mg/L	0.000135	131.76%
Zn 206.200†	1.8	0.00251	mg/L	0.000334	0.00251	mg/L	0.000334	13.30%

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 7-26-06

Final Volume 50

Final Volume (Hg): _____

Sample ID JQ33 ASPK, MBSPK

	Prepcode:	SWC		
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:	2261-1		
	Vol Added (mL):	1.0		
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200 ✓		10
	Se	200 ✓		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

1628

Total Solids

Oven in:
Analyst: Dm Date: 7-26-06 Time: 1315 Temp: 101°C

Oven out:
Analyst: Dm Date: 7-27-06 Time: 0710 Temp: 101°C

ARI Sample ID		Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
JQ33	A	0.990	10.263	6.009	
"	B	0.978	10.069	5.721	
"	C	0.982	10.202	5.831	
"	D	0.967	10.369	5.740	
"	E	1.025	10.060	5.745	
"	F	1.053	10.510	5.997	
"	G	1.044	10.972	6.321	
"	H	1.013	10.125	5.780	
"	I	1.029	10.501	5.929	
"	J	0.996	10.763	5.819	
"	K	1.059	10.154	6.103	
"	L	1.018	10.604	6.201	
"	M	0.991	10.410	5.951	
"	N	0.976	10.172	6.074	
"	O	1.023	10.487	6.649	
"	P	1.021	10.158	6.107	
"	Q	1.007	10.905	6.674	
			7-26-06 Dm		

Digestion Log

Analyst: DM

Matrix: Soil

Date: 7-26-06

Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
JQ33 A	2	—	1.027	50.0			
" ADUP	2	—	1.031				
" ASPK	2	—	1.024				
" B	2	—	1.048				
" C	2	—	1.027				
" D	3	—	1.043				
" E	2	—	1.080				
" F	2	—	1.018				
" G	2	—	1.076				
" H	2	—	1.065				
" I	2	—	1.015				
" J	2	—	1.065				
" K	2	—	1.074				
" L	2	—	1.065				
" M	2	—	1.065				
" N	2	—	1.052				
" O	2	—	1.033				
" P	2	—	1.033				
" Q	2	—	1.074				
" MB1	—	—	—				
" MB1SPK	—	—	—	50.0			
				7-26-06 DM			

Chemical/Reagent ID:

HNO_3: MP989 | I2853

HCl: I2854

H_2O_2: I2982

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Metals

ARI Job No: JQ33 Client Name: Archon Env.

Parameter: ICP Zn Client Project: T4

☑ Job OK, no corrective action required

MB1 Zn 0.012 mg/L

Samples > 10X

Analyst: [signature] Date Analyzed: 7.31.96

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

METHOD BLANK RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	07/24/06	Percent	< 0.01 U
	07/24/06		< 0.01 U
Total Organic Carbon	07/26/06	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	07/26/06	Percent	0.524	0.500	104.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	07/26/06	Percent	2.97	3.35	88.7%

REPLICATE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JQ33D Client ID: T4-B414-02-A					
Total Solids	07/24/06	Percent	50.90	51.20 51.30	0.4%
Total Organic Carbon	07/26/06	Percent	1.83	1.30 1.52	17.2%

MS/MSD RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JQ33D Client ID: T4-B414-02-A						
Total Organic Carbon	07/26/06	Percent	1.83	3.93	1.92	109.5%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-A
ARI ID: 06-12923 JQ33A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	54.60
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.21

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MO
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-B
ARI ID: 06-12924 JQ33B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	52.10
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.13

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-01-C
ARI ID: 06-12925 JQ33C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	53.10
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.70

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-A
ARI ID: 06-12926 JQ33D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	50.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.83

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-B
ARI ID: 06-12927 JQ33E

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	51.40
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.80

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-B414-02-C
ARI ID: 06-12928 JQ33F

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	52.40
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.60

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-A
ARI ID: 06-12929 JQ33G

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	52.80
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.29

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-B
ARI ID: 06-12930 JQ33H

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	51.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.52

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-03-C
ARI ID: 06-12931 JQ33I

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	51.30
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.23

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-A
ARI ID: 06-12932 JQ33J

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	49.50
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.81

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-B
ARI ID: 06-12933 JQ33K

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	55.70
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.47

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-B414-04-C
ARI ID: 06-12934 JQ33L

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	53.10
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.46

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-D
ARI ID: 06-12935 JQ33M

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	52.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	1.97

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-E
ARI ID: 06-12936 JQ33N

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	55.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.01

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-F
ARI ID: 06-12937 JQ33O

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	58.80
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.35

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-G
ARI ID: 06-12938 JQ33P

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	55.90
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.57

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ33-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-H
ARI ID: 06-12939 JQ33Q

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#3	EPA 160.3	Percent	0.01	57.50
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	2.25

RL Analytical reporting limit
U Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

JQ33

(kw)
7-26-06

TOC Solids Prep Log

DATE: 7/24/2006
ANALYST: KE 13:24 (A)

acid purging to remove IC and drying at 70°C for TOC analysis
General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	Sample description & notes
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	(homogeneity and exclusions)
Blank			13.0495		13.0498	0.3 mg	
JQ35 A2		-	13.1351	18.5091	16.1635	56.35%	
JQ35 B2		-	13.1749	18.8120	16.4996	58.98%	
JQ35 C2		-	13.0411	18.5861	16.4426	61.34%	
JQ35 D3		-	13.2142	18.9058	16.4864	57.49%	
JQ35 D3 DUP		-	13.1882	18.1899	16.0754	57.72%	
JQ35 D3 TRIP		-	13.0378	18.8962	16.3861	57.15%	
JQ35 E2		-	13.1361	18.8537	16.5232	59.24%	
JQ35 F3		-	13.0369	18.6819	16.5673	62.54%	
JQ35 G2		-	13.0987	18.3592	16.7603	69.61%	
JQ35 H2		-	13.1497	18.5207	16.1274	55.44%	
JQ35 I 2		-	13.1670	18.5387	16.3415	59.10%	
JQ35 J 2		-	13.0816	18.2775	16.1406	58.87%	
JQ35 K2		-	13.0212	18.1062	15.9814	58.21%	
JQ35 L2		+	13.2190	18.9768	18.1366	85.41%	
JQ35 M2		-	13.1911	18.1624	15.2089	40.59%	
JQ35 N2		-	13.0449	18.6069	17.4038	78.37%	
JQ35 O2		-	13.1722	18.0761	16.6936	71.81%	
JQ35 P3		+	13.1369	18.0740	17.6979	92.38%	
JQ33 A2		-	13.0762	18.7504	16.3199	57.17%	
JQ33 B2		-	13.1558	18.6799	16.2046	55.19%	
JQ33 C2		-	13.1019	18.8514	16.3168	55.92%	
JQ33 D3		-	13.1480	18.6135	16.0832	53.70%	
JQ33 D3 DUP		-	13.1565	18.5224	16.0476	53.88%	
JQ33 D3 TRIP		-	13.0912	18.3437	15.9203	53.86%	
Blank		-	13.0871		13.0874	0.3 mg	
JQ33 E2		-	13.1387	18.6969	16.1475	54.13%	
JQ33 F2		-	13.0670	18.5995	16.0523	53.96%	
JQ33 G2		-	13.0656	18.5442	16.0908	55.22%	
JQ33 H2		-	13.0086	18.4554	15.9794	54.54%	
JQ33 I 2		-	13.1138	18.6053	16.0898	54.19%	
JQ33 J 2		-	13.1319	18.5744	15.9632	52.02%	
JQ33 K2		-	13.0242	18.3913	16.1415	58.08%	
JQ33 L2		-	13.1270	18.4350	16.1061	56.12%	

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
JQ33 M2		-	12.9900	18.3919	15.9804	55.36%	
JQ33 N2		-	13.1454	18.2828	16.1359	58.21%	
JQ33 O2		-	13.2043	18.7301	16.5860	61.20%	
JQ33 P2		-	13.1875	18.8104	16.4840	58.63%	
JQ33 Q2		-	13.0704	18.7997	16.5078	60.00%	
JQ28 A1		-	13.1495	18.9944	17.7849	79.31%	
JQ28 A1 DUP		-	13.1521	18.8489	17.6406	78.79%	
JQ28 A1 TRIP		-	13.1299	18.3601	17.2765	79.28%	

(P)(W) 7-25 06

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis
General notes regarding prep method and samples (identify the acid used)

DATE: 7-24-06
ANALYST: (D) (A) 1324

make no entry to shaded cells, they are calculated

Sample ID ARI #	Sample ID Client	IC Test +/-	Gravimetric Data (grams) Tare Wt.	Wet wt.	70°C dry wt	% Solids	Sample description & notes (homogeneity and exclusions)
Blank			13.0795	Ø	13.0798		
JQ35 A2		-	13.1351	18.5091	16.1635		Sediment
B2		-	13.1749	18.8120	16.4996		
C2		-	13.0411	18.5861	16.4426		
D3		-	13.2142	18.9058	16.7864		
DUP D3		-	13.1882	18.1999	16.0754		
DUP D3		-	13.0378	18.8962	16.3861		
E2		-	13.1361	18.9537	16.4201	16.5232	
F3		-	13.0369	18.6819	16.5673		
G2		-	13.0987	18.3592	16.7603		
H2		-	13.1497	18.5207	16.1274		
I2		-	13.1670	18.5387	16.3415		
J2		-	13.0816	18.2775	16.1406		
K2		-	13.0212	18.1062	15.9814		
L2		+/-	13.2190	18.9768	18.1366		Sandy Sed
M2		-	13.1911	18.1624	15.2089		Very Wet Sed/ Sand Water
N2		-	13.0449	18.6069	17.4038		Sediment
O2		-	13.1722	18.0761	16.6936		
P3		+/-	13.1369	18.0740	17.6979		Sand
JQ33 A2		-	13.0162	18.7504	16.3199		Sediment
B2		-	13.1558	18.6799	16.2046		
C2		-	13.1019	18.8514	16.3168		
D3		-	13.1480	18.6135	16.0832		
DUP D3		-	13.1565	18.5224	16.0476		
DUP D3		-	13.0912	18.3437	15.9203		
Blank		-	13.0871	Ø	13.0874		
JQ33 E2		-	13.1387	18.6969	16.1475		
F2		-	13.0670	18.5995	16.0523		
G2		-	13.0656	18.5442	16.0908		
H2		-	13.0086	18.4554	15.9794		
I2		-	13.1138	18.6053	16.0898		
J2		-	13.1319	18.5744	15.9632		
K2		-	13.0242	18.3913	16.1415		
L2		-	13.1270	18.4350	16.1061		
M2		-	12.9900	18.3919	15.9904		

Cont.

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

DATE: 7-24-06

ANALYST: (W) (A) 1324

make no entry to shaded cells, they are calculated

Sample ID ARI #	Sample ID Client	IC Test +/-	Gravimetric Data (grams) Tare Wt.	Wet wt.	70°C dry wt	% Solids	Sample description & notes (homogeneity and exclusions)
Blank			7-24-06 (W)				
JQ33 N2		-	13.1454	18.2878	16.1359		Sediment
O2		-	13.2043	18.7301	16.5860	165860	Sediment w/Debris mat
P2		-	13.1875	18.8104	16.4840		Sediment
Q2		-	13.0204	18.7997	16.5078		Fine Sand & Water
JQ28 A1		-	13.1495	18.9944	17.7849		
dup A1		-	13.1521	18.8489	17.6406		
↓ dup A1		-	13.1299	18.3601	17.2765		

7-24-06 (W)

JQ33

LW
7-25-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/24/2006 12:38 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/25/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 20.8		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7/24/2006	7/24/2006	7/25/2006										
Time & Initials -->		11:00 KE	10:34 KE	9:42 KE										
Cal Wt (g) 10.0000		10.0001	10.0000	9.9994										
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*										
Blank			1.0162	1.0158			0.00							
JQ35 A2		6.1529	1.0352	3.7727			2.74	**53.5%**						
JQ35 B2		6.3498	1.0250	4.0195			2.99	**56.2%**						
JQ35 C2		6.5302	1.0157	4.2484			3.23	**58.6%**						
JQ35 D3		6.2322	1.0370	3.8659			2.83	**54.5%**						
JQ35 D3 dup		6.9729	1.0344	4.2868			3.25	**54.8%**						
							RPD =	0.58%				RPD =	NA	
JQ35 D3 trp		6.5068	1.0292	4.0156			2.99	**54.5%**						
							RSD =	0.30%				RSD =	NA	
JQ35 E2		6.0533	1.0177	3.8466			2.83	**56.2%**						
JQ35 F3		6.9286	1.0180	4.5561			3.54	**59.9%**						
JQ35 G2		6.7699	1.0184	4.8626			3.84	**66.8%**						
JQ35 H2		6.9308	1.0068	4.1363			3.13	**52.8%**						
JQ35 I 2		6.3797	1.0001	4.0329			3.03	**56.4%**						
JQ35 J 2		6.1100	1.0211	3.9105			2.89	**56.8%**						
JQ35 K2		6.8681	1.0161	4.3067			3.29	**56.2%**						
JQ35 L2		6.4609	1.0018	5.4101			4.41	**80.8%**						
JQ35 M2		6.0648	1.0095	3.1541			2.14	**42.4%**						
JQ35 N2		6.2932	1.0096	5.1352			4.13	**78.1%**						
JQ35 O2		6.7013	1.0135	4.9082			3.89	**68.5%**						
JQ35 P3		6.5335	1.0058	5.5957			4.59	**83.0%**						
JQ33 A2		6.1502	0.9921	3.8064			2.81	**54.6%**						
JQ33 B2		6.6922	1.0119	3.9699			2.96	**52.1%**						

(W) 7-24-06

1661

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/24/2006 12:38 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/25/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 20.8		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
JQ33 C2		6.4874	1.0204	3.9225			2.90	53.1%						
JQ33 D3		6.0450	1.0244	3.5821			2.56	50.9%						
JQ33 D3 dup		6.2189	1.0135	3.6778			2.66	51.2%						
							RPD =	0.47%				RPD =		NA
JQ33 D3 trp		6.3545	1.0060	3.7522			2.75	51.3%						
							RSD =	0.39%				RSD =		NA
Blank			1.0150	1.0156			0.00							
JQ33 E2		6.4498	1.0209	3.8095			2.79	51.4%						
JQ33 F2		6.4831	1.0168	3.8806			2.86	52.4%						
JQ33 G2		6.6639	1.0080	3.9950			2.99	52.8%						
JQ33 H2		6.2409	1.0233	3.7337			2.71	51.9%						
JQ33 I 2		6.3998	0.9934	3.7652			2.77	51.3%						
JQ33 J 2		6.4922	1.0367	3.7348			2.70	49.5%						
JQ33 K2		6.8359	1.0510	4.2707			3.22	55.7%						
JQ33 L2		6.3069	1.0379	3.8374			2.80	53.1%						
JQ33 M2		6.5905	1.0069	3.9625			2.96	52.9%						
JQ33 N2		6.1520	1.0117	3.8862			2.87	55.9%						
JQ33 O2		6.4451	1.0234	4.2091			3.19	58.8%						
JQ33 P2		6.2408	1.0256	3.9389			2.91	55.9%						
JQ33 Q2		6.7156	1.0022	4.2893			3.29	57.5%						
JQ28 A1		6.9371	1.0200	5.5676			4.55	76.9%						
JQ28 A1 dup		6.2525	1.0108	5.0178			4.01	76.4%						
							RPD =	0.54%				RPD =		NA
JQ28 A1 trp		6.9070	0.9946	5.4941			4.50	76.1%						
							RSD =	0.49%				RSD =		NA
JQ19 A1		6.6416	1.0168	4.5160			3.50	62.2%						
JQ19 A1 dup		6.2295	0.9964	4.2302			3.23	61.8%						

1662

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/24/2006 12:38 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/25/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 20.8		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	**TS (%)**	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	**TVS (mg/kg)**	**(%)**
							RPD =	0.67%				RPD =	NA	
JQ19 A1 trp		6.7825	1.0365	4.9226			3.89	**67.6%**						
							RSD =	5.10%				RSD =	NA	

1663

(D)(R) 7-24-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7-24-06

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: (W) (A) 12:38

Batch drying time

record times as mm/dd/yy hh:mm

7-24-06 (W) time in oven 12:38

7-25-06 time out 9:24

elapsed hrs = 0.0 *< 12 hr*

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:

Final ash wt (g) = (min ash wt - tare wt)

*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*

if ash wt > dry wt, "Chk for Err"

*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7-24-06	7-24-06	7-25-06										
Time & Initials -->		11:00 (A)	10:34 (W)	9:42 (W)										
Cal Wt (g) 10.0000		10.0001	10.0000	9.9994										
record weights to 4 places		0 (D)												
Blank	1	~~6.1529~~	1.0162	1.0158										
JQ35 A2	2	6.1529	1.0352	3.7387										
B2	3	6.3498	1.0250	4.0195										
C2	4	6.5302	1.0157	4.2484										
D3	5	6.2322	1.0370	~~38~~ 39 (D)	38659									
DUP D3	6	6.9729	1.0344	4.2868										
DUP D3	7	6.5068	1.0292	4.0156										
E2	8	6.0523	1.0177	3.8466										
F3	9	6.9286	1.0180	4.5561										
G2	10	6.7699	1.0184	4.8626										
H2	11	6.9308	1.0068	4.1363										
I2	12	6.3797	1.0001	4.0329										
J2	13	6.1100	1.0211	3.9105										
K2	14	6.8681	1.0161	4.3067										
L2	15	6.4609	1.0018	5.4101										
M2	16	6.0648	1.0095	3.1541										
N2	17	6.2932	1.0096	5.1352										
O2	18	6.7013	1.0135	4.9082										
P3	19	6.5335	1.0058	5.5957										
JQ33 A2	20	6.1502	0.9921	3.8064										
B2	21	6.6922	1.0119	3.9699										
C2	22	6.4874	1.0204	3.9225										
D2	23	6.0450	1.0244	3.5821										

1664

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7-24-06

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: (W)(A) 12:38

Batch drying time	TS (%) calculated as:	TVS (mg/kg dry wt) calculated as:
record times as mm/dd/yy hh:mm	Final dry wt (g) = (Dry Wt - Tare Wt) Cont.	Final ash wt (g) = (min ash wt - tare wt)
7-24-06 (W) time in oven 12:38	TS = (Final Dry Wt)/ (grams Sample-Tare)	TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
7-25-06 (W) time out 9:24		if ash wt > dry wt, "Chk for Err"
elapsed hrs = 0.0 < 12 hr		if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7-24-06	7-24-06	7-25-06										
Time & Initials -->		11:00 (W)	10:34 (W)	9:42 (W)										
Cal Wt (g) 10.0000		10.0001	10.0008	9.9994										
record weights to 4 places														
JQ33 ~~Blank~~ RD3	24	6.2189	1.0135	3.6778										
↓ RD3	25	6.3545	1.0060	3.7522										
Blank	26	0	1.0158	1.0156										
JQ33 E2	27	6.4498	1.0209	3.8095										
F2	28	6.4831	1.0168	3.8806										
G2	29	6.6639	1.0080	3.9950										
H2	30	6.2409	1.0233	3.7337										
I2	31	6.3998	0.9934	3.7652										
J2	32	6.4922	1.0367	3.7348										
K2	33	6.8359	1.0510	4.2207										
L2	34	6.3069	1.0379	3.8374										
M2	35	6.5905	1.0069	3.9625										
N2	36	6.1580	1.0117	3.8862										
O2	37	6.4457	1.0234	4.2091										
P2	38	6.2408	1.0256	3.9389										
↓ Q2	39	6.7156	1.0022	4.2893										
JQ28 A1	40	6.9371	1.0200	5.5676										
DP A1	41	6.2525	1.0108	5.0178										
↓ RA1	42	6.9070	0.9946	5.4941										
JQ19 A1	43	6.6416	1.0168	4.5160										
DP A1	44	6.2295	0.9961	4.2302										
↓ RA1	45	6.7825	1.0365	4.9226										
							7-24-06 (W)							

1665

JQ33

LLW 7-26-06

TOC, Solids Data Analysis

Mode: NPOC *Inlet:* Boat

Spike Std = 2,000 *ppm C*

DATE:	7/26/2006
ANALYST:	KE 9:26

Calibration Data

Calibration Standard			Source:	ARI # 0061-4			Conc:	2,000 ppm
	Observed Values (µg/g)					mean	*Cal Factor*	
	1,589	1,598	1,609			1,599	*1.251*	
Verification Standard			Source:	ERA 32-44 As			Conc:	5,000 ppm
	ICV	CCV	CCV	CCV	CCV	*mean*	*% Rec*	
	5,235	5,127	5,196	5,135	5,151	*5,169*	*103.4%*	
	5,202					*5,202*	*#DIV/0!*	
Standard Reference Material			Source:	***NIST 8704***			Conc:	**33,510** ppm

Blank Data

System Blanks (enter "observed C")

Replicate determinations					Mean	condition
17.25	18.45	37.22	30.99	43.62	29.51	OK !
22.57					22.57	OK !

Silica Blanks (enter "corrected C" at end of run)

Replicate determinations					Mean	condition

Historical Blank Limits

mean	*stdev*
17.8	7.23
updated	*9/27/2005*
updated	*9/27/2005*
LBL	-3.9
UBL	39.5

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5265	5,235	*104.71%*
Blank				1.00		10.0	17.25		*Blank OK*
NIST 8704				1.00		3.5	29700	29,670	*88.54%*
JQ33 A2				1.00		2.8	11590	11,560	*Range OK!*
JQ33 B2				1.00		1.8	20130	20,100	*Range OK!*
JQ33 C2				1.00		2.4	16160	16,130	*Range OK!*
JQ33 D3				1.00		1.9	17330	17,300	*Range OK!*
JQ33 D3 dup				1.00		2.0	12340	12,310	*RPD=33.7%*
JQ33 D3 trp				1.00		1.9	14450	14,420	*RSD=17.1%*
JQ33 D3 ms				1.00	10	1.1	37250	37,220	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.1*	*mg samp=*	*18,182*	*ppm*		*110%*	
JQ33 E2				1.00		1.7	17140	17,110	*Range OK!*
JQ33 F2				1.00		1.6	25280	25,250	*Range OK!*
CCV				1.00		10.0	5157	5,127	*102.55%*
Blank				1.00		10.0	18.45		*Blank OK*
JQ33 G2				1.00		2.3	12380	12,350	*Range OK!*
JQ33 H2				1.00		2.1	14460	14,430	*Range OK!*
JQ33 I 2				1.00		2.3	21100	21,070	*Range OK!*
JQ33 J 2				1.00		2.5	17290	17,260	*Range OK!*
JQ33 K2				1.00		1.9	14080	14,050	*Range OK!*
JQ33 L2				1.00		2.5	13860	13,830	*Range OK!*
JQ33 M2				1.00		2.2	18880	18,850	*Range OK!*
JQ33 N2				1.00		2.3	19310	19,280	*Range OK!*
JQ33 O2				1.00		2.2	22620	22,590	*Range OK!*
JQ33 P2				1.00		1.8	24580	24,550	*Range OK!*
CCV				1.00		10.0	5226	5,196	*103.93%*
Blank				1.00		10.0	37.22		*Blank OK*
JQ33 Q2				1.00		1.9	21560	21,530	*Range OK!*
JQ35 L2				1.00		2.1	4789	4,759	*Range OK!*
JQ35 P2				1.00		1.9	1794	1,764	*Range OK!*

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
~~JQ36 A2~~			-	~~1.00~~		~~2.5~~	~~12640~~	~~12,610~~	~~Range OK!~~
~~JQ36 A2 dup~~				~~1.00~~		~~2.6~~	~~21830~~	~~21,800~~	~~RPD=53.4%~~
~~JQ36 A2 trp~~				~~1.00~~		~~2.4~~	~~14120~~	~~14,090~~	~~RSD=30.5%~~
~~JQ36 A2~~			-	~~1.00~~		~~2.5~~	~~14620~~	~~14,590~~	~~Range OK!~~
~~JQ36 A2 dup~~				~~1.00~~		~~2.5~~	~~22640~~	~~22,610~~	~~RPD=43.1%~~
~~JQ36 A2 trp~~				~~1.00~~		~~2.6~~	~~17420~~	~~17,390~~	~~RSD=22.4%~~
~~JQ36 A2 ms~~			-	~~1.00~~	~~10~~	~~1.2~~	~~31580~~	~~31,550~~	~~Range OK!~~
~~Spike =~~	~~0.02~~	~~mg C to~~	~~1.2~~	~~mg samp=~~	~~16,667~~	~~ppm~~		~~102%~~	
CCV				1.00		10.0	5165	5,135	*102.71%*
Blank				1.00		10.0	30.99		*Blank OK*
JQ36 B2				1.00		2.4	19760	19,730	*Range OK!*
JQ36 C2				1.00		2.4	16540	16,510	*Range OK!*
JQ36 D2				1.00		2.1	4242	4,212	*Range OK!*
JQ36 E2				1.00		2.0	23230	23,200	*Range OK!*
JQ36 F2				1.00		2.1	4023	3,993	*Range OK!*
JQ36 G2				1.00		2.2	12350	12,320	*Range OK!*
JQ36 H2				1.00		2.0	2198	2,168	*Range OK!*
JQ36 I 2				1.00		2.2	16850	16,820	*Range OK!*
JQ36 J 2				1.00		2.0	16610	16,580	*Range OK!*
JQ36 K2				1.00		2.3	19390	19,360	*Range OK!*
CCV				1.00		10.0	5181	5,151	*103.03%*
Blank				1.00		10.0	43.62		*Blank OK*
JQ36 L2				1.00		2.0	15900	15,870	*Range OK!*
JQ28 A1				1.00		2.2	3295	3,265	*Range OK!*
JQ28 A1 dup				1.00		2.2	3377	3,347	*RPD=2.5%*
JQ28 A1 trp				1.00		2.3	3508	3,478	*RSD=3.2%*
JQ28 A1 ms				1.00	10	3.5	9225	9,195	*Range OK!*
Spike =	*0.02*	*mg C to*	*3.5*	*mg samp=*	*5,714*	*ppm*		*104%*	
NIST 8704				1.00		3.5	28950	28,920	*86.30%*
CCV				1.00		10.0	5232	5,202	*104.05%*
~~Blank~~				~~1.00~~		~~10.0~~	~~437.8~~		~~Check Blank~~
Blank				1.00		10.0	22.57		*Blank OK*

9:26 (KL) 7-26-06
Page 2 of 2

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Sample Run Log

Set-Up Parameters MODE: VPOC INLET: BOAT

Standards:	Source	Conc (ppm)
Calibration:	ARI 0060-4	2000
Verification:	SPEX 32-44 AS	5000
SRM:	NBS 8704	33510

Cont.

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
JQ36 +pA²			2.4			will be reanalyzed
A²			2.5			
pA²			2.5			7-26-06 (KL)
+pA²			2.6			
msA²			1.2	2000	10	
CCV			10			
CCB			10			
JQ36 B²			2.4			
C²			2.4			
D²			2.1			
E²			2.0			
F²			2.1			
G²			2.2			
H²			2.0			
I²			2.2			
J²			2.0			
K²			2.3			
CCV			10			
CCB			10			
JQ36 L²			2.0			
JQ28 A¹			2.2			
pA¹			2.2			
+pA¹			2.3			
msA¹			3.5	2000	10	
CCV			10			
CCB			10/10			21 Jects

7-26-06 NBS 8704 3.5

7-26-06 (KL)

9:26 7-26-06 (W)

Page 1 of 2

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Sample Run Log

Set-Up Parameters MODE: NPOC		INLET: BOAT
Standards:	**Source**	**Conc (ppm)**
Calibration:	ARI 0061-4	2000
Verification:	SPEX 32-44AS	5000
SRM:	NBS 8704	33510

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
cal @ 2000			25			
ICV			10			
ICB			10			
NBS 8704			3.5			
JQ33 A2			2.8			
B2			1.8			
C2			2.4			
D3			1.9			
OPD3			2.0			
HPD3			1.9			
MSD3			1.1	2000	10	
E2			1.7			
F2			1.6			
CCV			10			
CCB			10			
JQ33 G2			2.3			
H2			2.1			
I2			2.3			
J2			2.5			
K2			1.9			
L2			2.5			
M2			2.2			
N2			2.3			
O2			2.2			
P2			1.8			
CCV			10			
CCB			10			
JQ33 Q2			1.9			
JQ35 L2			2.1			
P2			1.9			
JQ36 A2			2.5			will Be Reanalyzed @ 7-26-06
A2			2.6			wrong # or 1st Gen # No injection or (0.6) No peak

7-26-06 (W)

Operating Parameters

```
nalysis set-up     1
NPOC Analysis
Boat mode
ample size          25.
alibration factor    1.
ystem blank          0.
td. concentration =2000.
ample mass (mg) =  25.
1. NPOC = 1589. ug/g
ample mass (mg) =  25.
2. NPOC = 1598. ug/g
ample mass (mg) =  25.
3. NPOC = 1635. ug/g
ample mass (mg) =  25.
4. NPOC = 1609. ug/g
AVG  NPOC = 1608. +/- 19.77     % std dev: 1.229
0:34:28 Wed Jul 26, 2006
epeat number 3  omitted:

AVG  NPOC = 1599. +/- 9.95     % std dev: 0.622
alibration update:
alibration factor  1.251
ystem blank          0.
ample mass (mg) =  10.
1. NPOC = 5265. ug/g
0:49:08 Wed Jul 26, 2006
ample mass (mg) =  10.
1. NPOC = 17.25 ug/g
0:59:14 Wed Jul 26, 2006
ample mass (mg) =  3.5
1. NPOC = 29700. ug/g
1:42:23 Wed Jul 26, 2006
ample mass (mg) =  2.8
1. NPOC = 11590. ug/g
1:49:07 Wed Jul 26, 2006
ample mass (mg) =  1.8
1. NPOC = 20130. ug/g
1:53:39 Wed Jul 26, 2006
ample mass (mg) =  2.4
1. NPOC = 16160. ug/g
2:01:01 Wed Jul 26, 2006
ample mass (mg) =  1.9
1. NPOC = 17330. ug/g
2:21:02 Wed Jul 26, 2006
ample mass (mg) =  2.
1. NPOC = 12340. ug/g
2:26:43 Wed Jul 26, 2006
ample mass (mg) =  1.9
1. NPOC = 14450. ug/g
2:34:51 Wed Jul 26, 2006
ample mass (mg) =  1.1
1. NPOC = 37250. ug/g
2:40:19 Wed Jul 26, 2006
ample mass (mg) =  1.7
1. NPOC = 17140. ug/g
2:45:08 Wed Jul 26, 2006
ample mass (mg) =  1.6
1. NPOC = 25280. ug/g
2:49:03 Wed Jul 26, 2006
ample mass (mg) =  10.
```

2:55:32 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 18.45 ug/g
3:00:01 Wed Jul 26, 2006
ample mass (mg) = 2.3
1. NPOC = 12380. ug/g
3:05:56 Wed Jul 26, 2006
ample mass (mg) = 2.1
1. NPOC = 14460. ug/g
3:12:47 Wed Jul 26, 2006
ample mass (mg) = 2.3
1. NPOC = 21100. ug/g
3:17:57 Wed Jul 26, 2006
ample mass (mg) = 2.5
1. NPOC = 17290. ug/g
3:25:41 Wed Jul 26, 2006
ample mass (mg) = 1.9
1. NPOC = 14080. ug/g
3:32:02 Wed Jul 26, 2006
ample mass (mg) = 2.5
1. NPOC = 13860. ug/g
3:38:09 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 18880. ug/g
3:43:26 Wed Jul 26, 2006
ample mass (mg) = 2.3
1. NPOC = 19310. ug/g
3:50:57 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 22620. ug/g
3:56:28 Wed Jul 26, 2006
ample mass (mg) = 1.8
1. NPOC = 24580. ug/g
4:02:04 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 5226. ug/g
4:12:17 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 37.22 ug/g
4:16:54 Wed Jul 26, 2006
ample mass (mg) = 1.9
1. NPOC = 21560. ug/g
4:25:11 Wed Jul 26, 2006
ample mass (mg) = 2.1
1. NPOC = 4789. ug/g
4:29:42 Wed Jul 26, 2006
ample mass (mg) = 1.9
1. NPOC = 1794. ug/g
4:34:13 Wed Jul 26, 2006
ample mass (mg) = 2.5
1. NPOC = 12640. ug/g
4:39:04 Wed Jul 26, 2006
ample mass (mg) = 0.6
1. NPOC = 0. ug/g No Peak!!
4:42:04 Wed Jul 26, 2006
ample mass (mg) = 2.6
1. NPOC = 21830. ug/g
4:49:35 Wed Jul 26, 2006
ample mass (mg) = 2.4
1. NPOC = 14120. ug/g
4:57:17 Wed Jul 26, 2006
ample mass (mg) = 2.5
1. NPOC = 14620. ug/g

5:02:29 Wed Jul 26, 2006
ample mass (mg) = 2.5
1. NPOC = 22640. ug/g
5:43:24 Wed Jul 26, 2006
ample mass (mg) = 2.6
1. NPOC = 17420. ug/g
5:56:29 Wed Jul 26, 2006
ample mass (mg) = 1.2
1. NPOC = 31580. ug/g
6:15:18 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 5165. ug/g
6:26:52 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 30.99 ug/g
6:30:55 Wed Jul 26, 2006
ample mass (mg) = 2.4
1. NPOC = 19760. ug/g
6:36:25 Wed Jul 26, 2006
ample mass (mg) = 2.4
1. NPOC = 16540. ug/g
6:47:20 Wed Jul 26, 2006
ample mass (mg) = 2.1
1. NPOC = 4242. ug/g
6:54:09 Wed Jul 26, 2006
ample mass (mg) = 2.
1. NPOC = 23230. ug/g
7:04:24 Wed Jul 26, 2006
ample mass (mg) = 2.1
1. NPOC = 4023. ug/g
7:12:06 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 12350. ug/g
7:16:57 Wed Jul 26, 2006
ample mass (mg) = 2.
1. NPOC = 2198. ug/g

7:31:14 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 16850. ug/g
7:37:40 Wed Jul 26, 2006
ample mass (mg) = 2.
1. NPOC = 16610. ug/g
7:42:20 Wed Jul 26, 2006
ample mass (mg) = 2.3
1. NPOC = 19390. ug/g
7:47:39 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 5181. ug/g
7:53:57 Wed Jul 26, 2006
ample mass (mg) = 10.
1. NPOC = 43.62 ug/g
7:58:00 Wed Jul 26, 2006
ample mass (mg) = 2.
1. NPOC = 15900. ug/g
8:03:02 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 3295. ug/g
8:08:05 Wed Jul 26, 2006
ample mass (mg) = 2.2
1. NPOC = 3377. ug/g
8:14:25 Wed Jul 26, 2006

1. NPOC = 3508. ug/g
8:18:41 Wed Jul 26, 2006
Sample mass (mg) = 3.5
1. NPOC = 9225. ug/g
8:27:25 Wed Jul 26, 2006
Sample mass (mg) = 3.5

1. NPOC = 28950. ug/g
8:33:09 Wed Jul 26, 2006
Sample mass (mg) = 10.
1. NPOC = 5232. ug/g
8:39:12 Wed Jul 26, 2006
Sample mass (mg) = 10.
1. NPOC = 437.8 ug/g
8:43:11 Wed Jul 26, 2006
Sample mass (mg) = 10.
1. NPOC = 22.57 ug/g
8:50:26 Wed Jul 26, 2006

Geotech Analysis

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ33

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 EARLY ACTION - 050332-01

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
T4-B414-01-A	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.2	97.8	92.8	88.3	73.4	51.1	43.2	35.4	30.7	25.9	18.1	11.0
T4-B414-01-B	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.4	97.1	88.4	84.2	77.9	62.8	50.7	39.9	33.1	29.0	18.2	12.8
T4-B414-01-C	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.0	96.7	94.9	89.3	62.2	52.8	38.8	32.8	27.4	19.4	12.7
T4-B414-02-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.1	97.6	95.8	84.0	60.4	49.2	38.0	31.7	26.8	18.7	11.2
T4-B414-02-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	98.7	96.4	85.8	63.3	52.7	40.7	35.3	30.0	19.3	12.0
T4-B414-02-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.9	92.2	90.0	84.2	66.3	52.9	43.6	36.9	30.8	20.8	13.4
T4-B414-03-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.3	92.2	88.6	73.5	51.0	40.7	30.3	25.9	21.4	13.3	8.9
T4-B414-03-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.5	96.1	93.3	78.8	59.9	54.4	39.2	32.3	26.8	17.2	11.7
T4-B414-03-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.6	96.7	95.2	88.6	67.3	54.8	42.3	35.4	28.4	17.3	11.1
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	98.6	97.2	86.7	59.8	47.7	36.9	30.9	25.5	17.5	11.4
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.4	97.3	87.9	67.3	51.7	39.9	32.5	26.6	18.5	10.3
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.3	98.7	97.8	87.5	64.4	53.6	41.3	34.7	28.2	21.7	12.3
T4-B414-04-B	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.6	99.2	98.6	96.5	83.3	58.0	47.5	36.3	30.3	23.7	16.5	10.5
T4-B414-04-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.1	97.6	93.9	78.0	56.8	47.0	37.2	31.3	24.8	17.0	9.8
T4-S3-01-D	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.4	99.1	3.0	2.5	2.0	1.7	1.3	0.8	0.5
T4-S3-01-E	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	97.6	88.9	79.9	66.6	51.4	33.4	31.5	24.4	19.3	11.6	7.7
T4-S3-01-F	100.0	100.0	100.0	100.0	100.0	99.1	98.7	97.2	92.1	72.6	54.5	38.9	32.4	26.4	22.8	18.0	14.4	8.4	4.8
T4-S3-01-G	100.0	100.0	100.0	100.0	100.0	98.8	98.7	97.9	94.2	83.1	74.5	65.9	57.2	48.5	39.8	32.4	26.8	16.8	10.6
T4-S3-01-H	100.0	100.0	100.0	100.0	100.0	94.2	93.5	92.3	89.3	80.2	73.2	66.3	56.8	46.0	38.8	33.1	27.3	16.5	10.1

Testing performed according to ASTM D421/D422

JQ33

1675

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 EARLY ACTION - 050332-01

Percent Retained in Each Size Fraction

Description	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay
Particle Size (microns)	> 4750	4750-2000	2000-425	425-75	75-32	32-22	22-13	13-9	9-7	7-3.2	<3.2
T4-B414-01-A	0.1	0.2	1.9	24.3	22.4	7.9	7.9	4.7	4.7	7.9	18.1
T4-B414-01-B	0.0	0.1	2.8	19.2	15.1	12.2	10.8	6.8	4.1	10.8	18.2
T4-B414-01-C	0.0	0.1	0.9	9.7	27.1	9.4	14.0	6.0	5.4	8.0	19.4
T4-B414-02-A	0.0	0.0	0.9	15.1	23.7	11.2	11.2	6.2	5.0	8.1	18.7
T4-B414-02-B	0.0	0.0	0.5	13.8	22.5	10.7	12.0	5.3	5.3	10.7	19.3
T4-B414-02-C	0.0	0.0	2.0	13.7	17.9	13.4	9.4	6.7	6.0	10.1	20.8
T4-B414-03-A	0.0	0.0	2.7	23.8	22.5	10.4	10.4	4.4	4.4	8.1	13.3
T4-B414-03-B	0.0	0.0	1.4	19.8	18.9	5.5	15.1	6.9	5.5	9.6	17.2
T4-B414-03-C	0.0	0.0	1.4	10.0	21.4	12.5	12.5	6.9	6.9	11.1	17.3
T4-B414-04-A	0.0	0.0	0.6	12.6	27.0	12.1	10.7	6.0	5.4	8.1	17.5
T4-B414-04-A	0.0	0.0	0.9	11.1	20.7	15.5	11.8	7.4	5.9	8.1	18.5
T4-B414-04-A	0.0	0.0	0.7	11.8	23.1	10.9	12.3	6.5	6.5	6.5	21.7
T4-B414-04-B	0.0	0.3	0.5	15.9	25.3	10.5	11.2	5.9	6.6	7.3	16.5
T4-B414-04-C	0.0	0.0	0.9	21.1	21.3	9.8	9.8	5.9	6.5	7.8	17.0
T4-S3-01-D	0.0	0.0	0.1	0.8	96.1	0.5	0.5	0.3	0.4	0.4	0.8
T4-S3-01-E	0.0	0.1	2.3	31.0	15.2	18.0	1.9	7.1	5.1	7.7	11.6
T4-S3-01-F	0.9	0.4	6.5	53.2	6.5	6.0	3.6	4.8	3.6	6.0	8.4
T4-S3-01-G	1.2	0.2	4.5	28.3	8.7	8.7	8.7	7.5	5.6	10.0	16.8
T4-S3-01-H	5.8	0.7	4.2	23.0	9.5	10.8	7.2	5.8	5.8	10.8	16.5

JQ33

1676

ANALYTICAL RESOURCES INCORPORATED

PROJECT:	Anchor Environmental	Project No.:	T4 EARLY ACTION -
ARI Triplicate Sample ID:	JQ33 J	Batch No.:	JQ33 -01
Client Triplicate Sample ID:	T4-B414-04	Page:	1 of 1

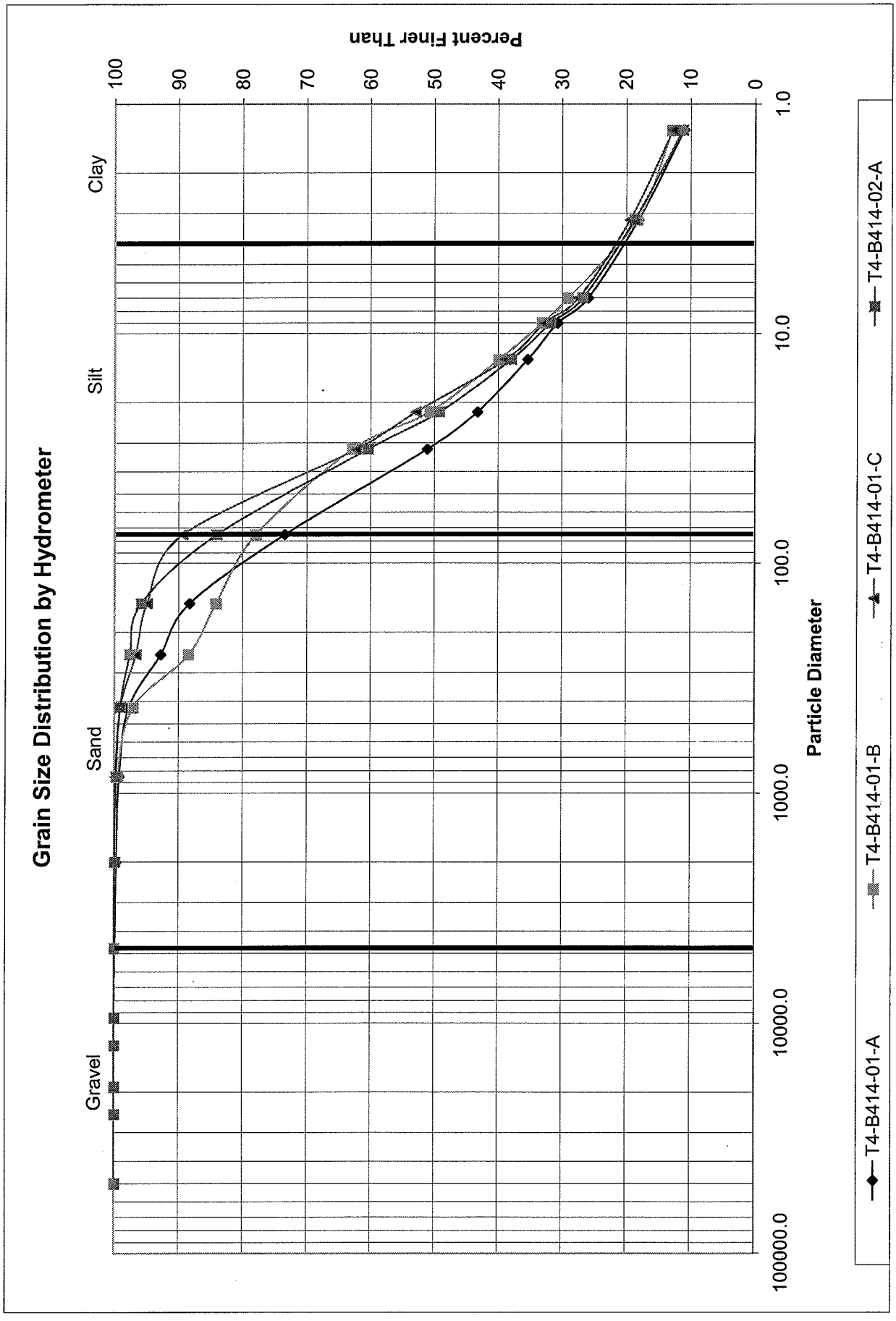
Relative Standard Deviation, By Size

Sample ID	4750	2000	850	425	250	150	75	32	22	13	9	7	3.2	1.3
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	98.6	97.2	86.7	59.8	47.7	36.9
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.4	97.3	87.9	67.3	51.7	39.9
T4-B414-04-A	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.4	97.3	87.9	67.3	51.7	39.9
AVE	100.00	100.00	100.00	100.00	100.00	100.00	99.63	99.16	98.49	97.27	87.53	64.76	50.39	38.92
STDEV	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.18	0.10	0.10	0.68	4.32	2.34	1.71
%RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.18	0.10	0.10	0.78	6.67	4.64	4.41

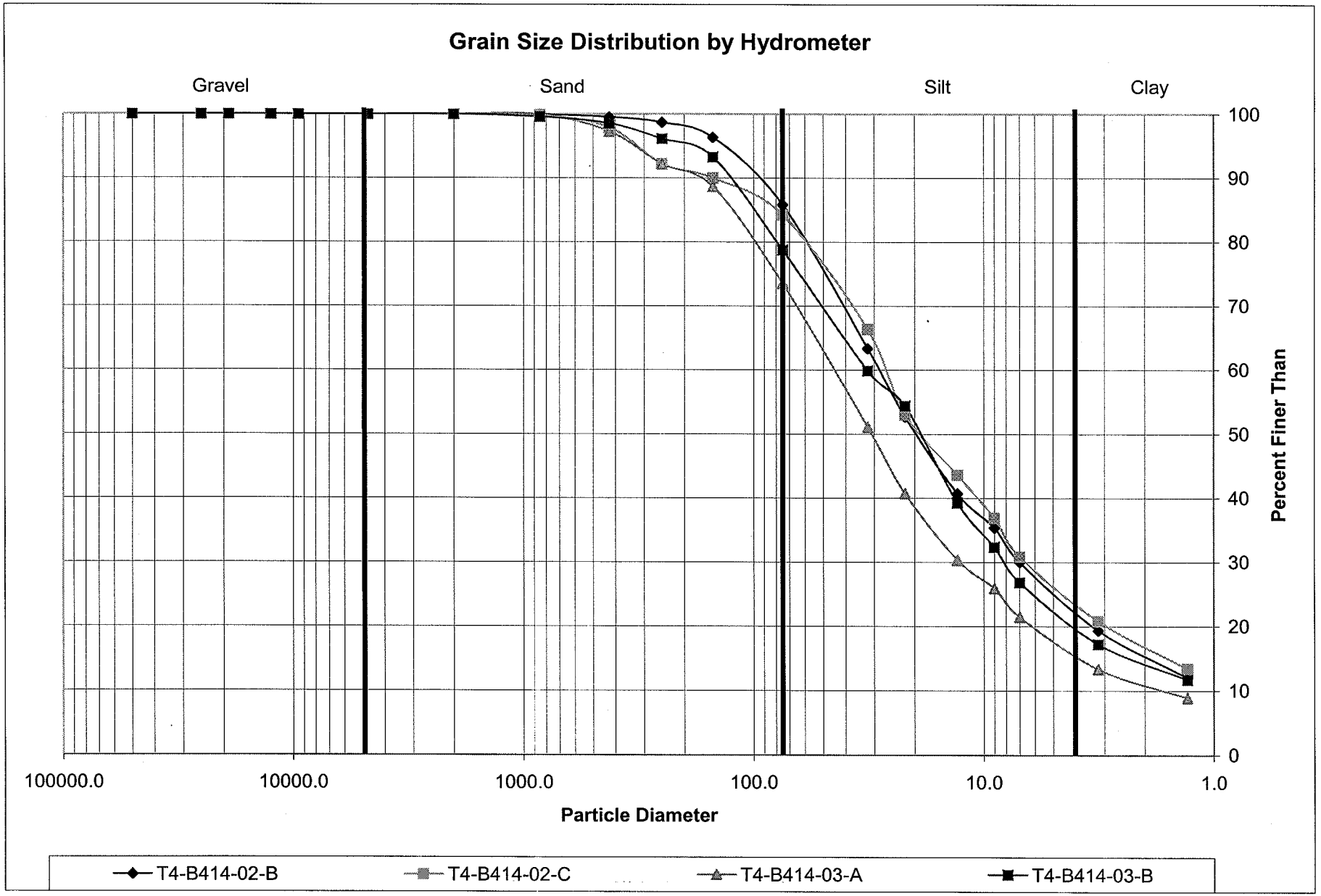
This Triplicate applies to the Batch Containing the Following Samples

Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
T4-B414-01-A	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-01-B	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-01-C	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-02-A	7/19/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-02-B	7/19/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-02-C	7/19/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-03-A	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-03-B	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-03-C	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-04-A	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-04-A	7/20/2006	7/31/2006	8/1/2006	8/3/2006	
T4-B414-04-A	7/20/2006	7/31/2006	8/1/2006	8/3/2006	
T4-B414-04-B	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-B414-04-C	7/20/2006	7/27/2006	8/1/2006	8/3/2006	
T4-S3-01-D	7/18/2006	7/27/2006	8/1/2006	8/3/2006	
T4-S3-01-E	7/18/2006	7/27/2006	8/1/2006	8/3/2006	
T4-S3-01-F	7/18/2006	7/27/2006	8/1/2006	8/3/2006	
T4-S3-01-G	7/18/2006	7/27/2006	8/1/2006	8/3/2006	
T4-S3-01-H	7/18/2006	7/27/2006	8/1/2006	8/3/2006	

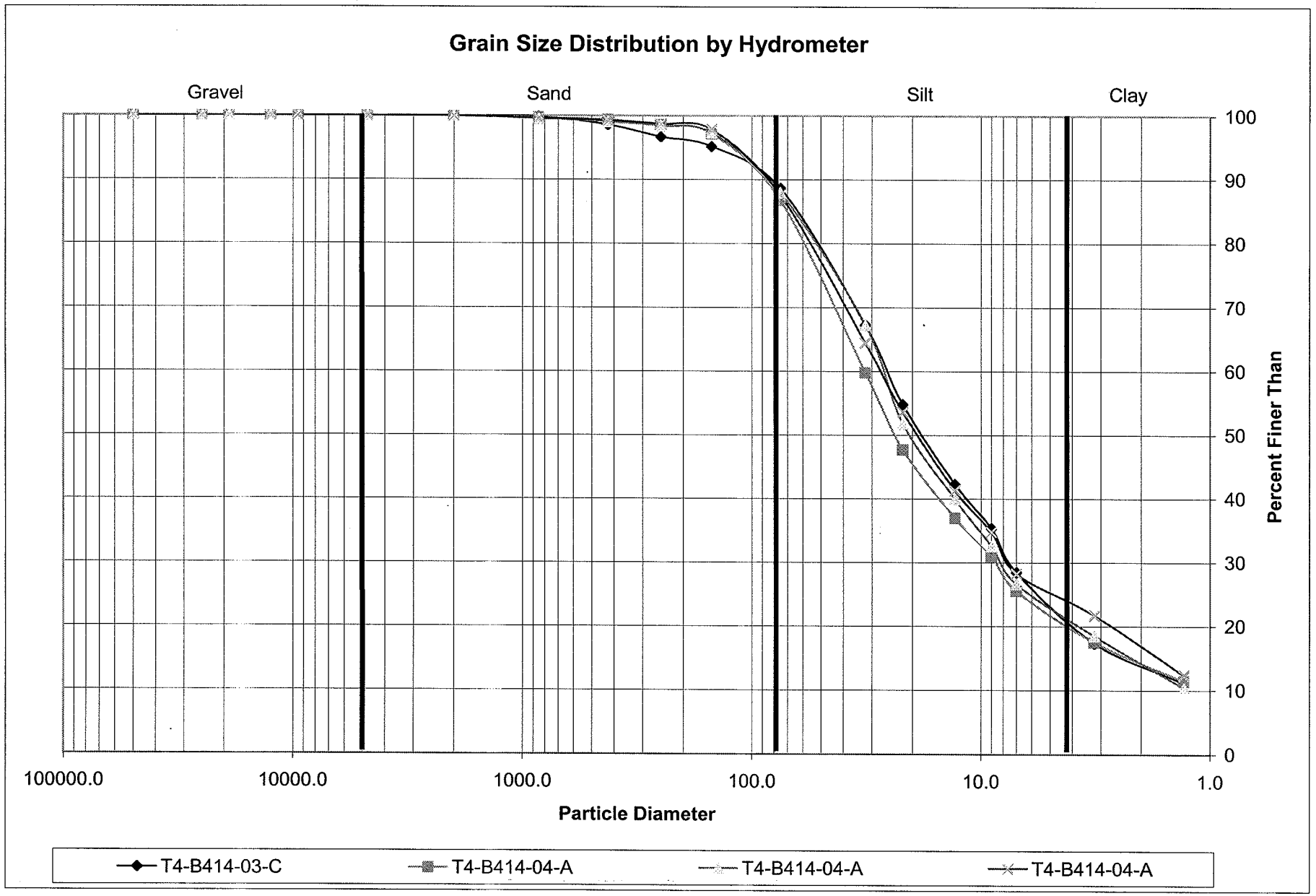
ANALYTICAL RESOURCES INCORPORATED



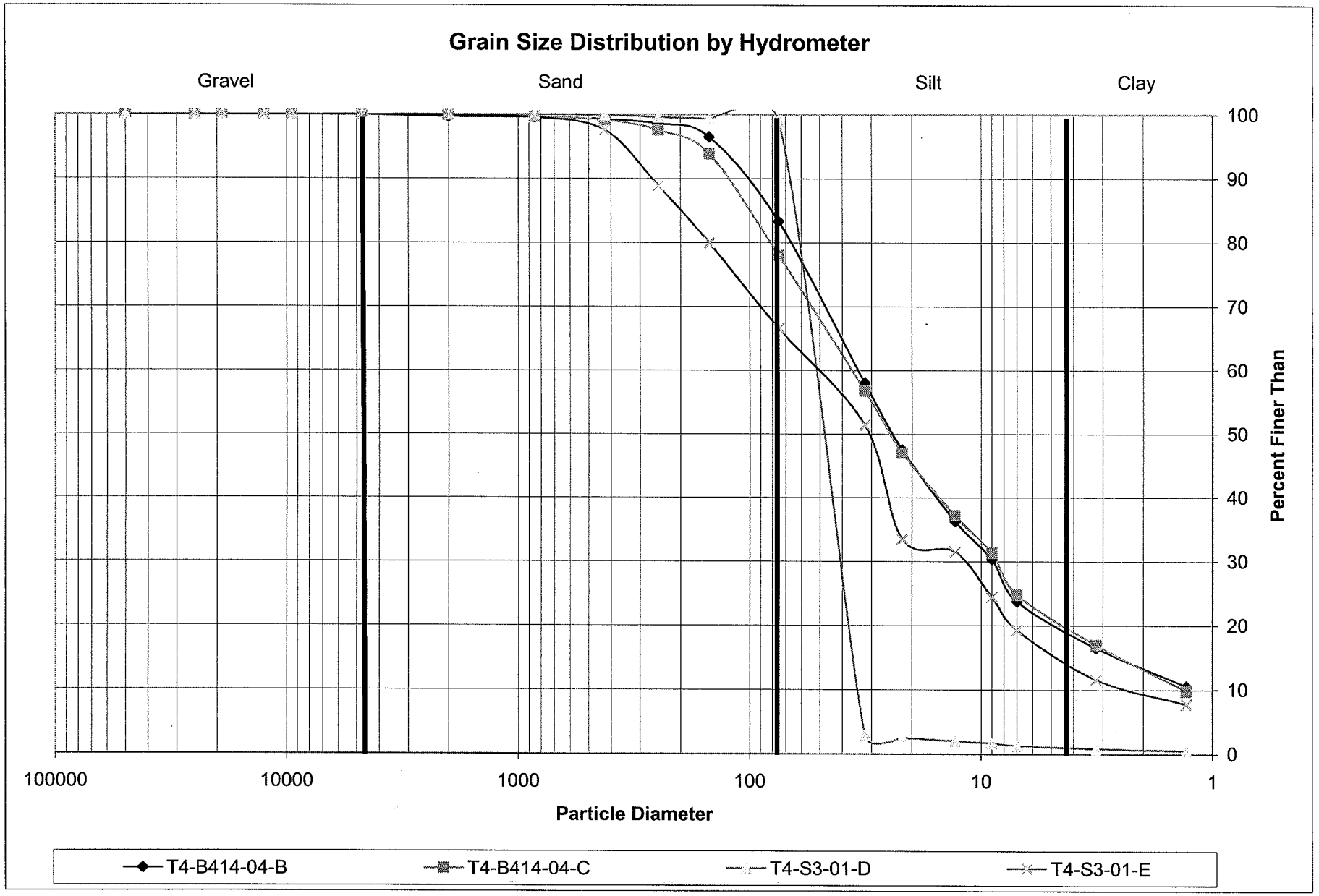
ANALYTICAL RESOURCES INCORPORATED

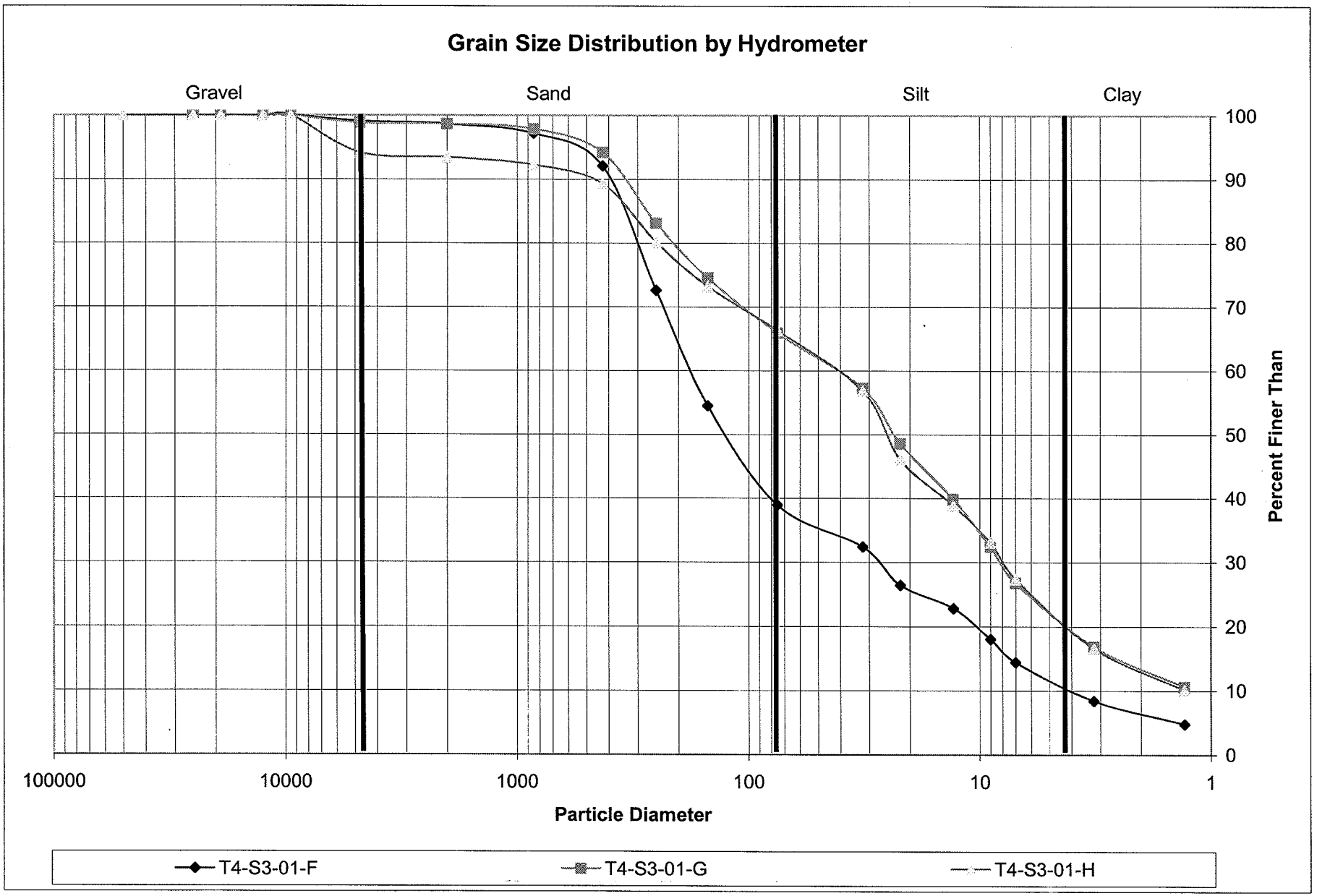


ANALYTICAL RESOURCES INCORPORATED



1680


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
100
10
1
Particle Diameter
T4-B414-04-B
T4-B414-04-C
T4-S3-01-D
T4-S3-01-E


Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000
10000
1000
100
10
1
Particle Diameter
T4-S3-01-F
T4-S3-01-G
T4-S3-01-H

WET WT ~~234.45~~ 279.32

Hydrometer Analysis - ASTM D-422

ARI Job No.: 1033 ARI Sample No.: A
Client Sample Number: T4-B414-01-A
Description: Clay, Silt, Fine Sand
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	A
Tare Weight	1.45
Wet Soil + Tare (g)	25.41
Dry Soil + Tare (g)	24.16

Tare Number	A
Tare Weight (g)	10.52
Weight Total Sample (g) (Air-dried, not sieved)	167.93
Weight Hydro Test Sample (g)	66.99
Tare + Oven Dry Plus #10 (g)	11.07
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	30.76

Date Set Up 7/27/06
Technician: gs
Hydro Beaker: A5
Hydro #: 115170
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
8:50:00	START				
8:51:00	1	45	24.5	22.5	HS
8:52:00	2	37	24.5	22.5	HB
8:55:00	5	32	4.5	22.5	
9:05:00	15	27	4.5	22.5	
9:20:00	30	24	4.5	22.5	
9:50:00	60	21	4.5	22.5	
13:00:00	250	16	4.5	23.5	
8:50:00	1440	12	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.54
2"	
1"	
3/4	
1/2	
3/8	
#4	10.70
#10	11.03
#20	11.31
#40	12.25
#60	15.42
#100	18.29
#200	27.74
Pan	31.02

+ 2 minutes

WET WT: 261.50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: B
Client Sample Number: T4-B4/4-01-B
Description: Clay Silt, Fine Sand
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33B
Tare Weight	1.45
Wet Soil + Tare (g)	27.06
Dry Soil + Tare (g)	25.44

Tare Number	B
Tare Weight (g)	10.41
Weight Total Sample (g) (Air-dried, not sieved)	151.56
Weight Hydro Test Sample (g)	79.03
Tare + Oven Dry Plus #10 (g)	10.61
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	27.94

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: W
Hydro #: 115170
Calgon Batch #: 136

Place	8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	8:59:00	START			
	9:00:00	1	57	4.5	22.5
	9:01:00	2	51	4.5	22.5
	9:04:00	5	42	4.5	22.5
	9:14:00	15	34	4.5	22.5
	9:29:00	30	29	4.5	22.5
	9:59:00	60	26	4.5	22.5
	13:09:00	250	18	4.5	23.5
	8:59:00	1440	14.5	5	22.5

Sieve Analysis
Date Sieved: 8/3/06 Technician: [illegible] Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.43
2"	
1"	
3/4	
1/2	
3/8	
#4	10.48
#10	10.60
#20	10.92
#40	12.67
#60	19.10
#100	22.25
#200	26.88
Pan	28.09

WET WT. 236.02

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: C
Client Sample Number: T4-B4I4-01-C
Description: Clay Silt, Fine Sand
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33C
Tare Weight	1.46
Wet Soil + Tare (g)	32.38
Dry Soil + Tare (g)	30.75

Tare Number	C
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	140.07
Weight Hydro Test Sample (g)	78.97
Tare + Oven Dry Plus #10 (g)	10.72
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	21.28

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: BT
Hydro #: 15170
Calgon Batch #: 136

Place

8/1/06	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
TIME	START			
9:08:00	1	60 +	4.5	22.5
9:09:00	2	51	4.5	22.5
9:10:00	5	44	4.5	22.5
9:13:00	15	33.5	4.5	22.5
9:23:00	30	29	4.5	22.5
9:38:00	60	25	4.5	22.5
10:08:00	250	19	4.5	23.5
13:18:00	1440	14.5	5	22.5
9:08:00				

Sieve Analysis
Date Sieved: 8/3/06 Technician: ~~gs~~ Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.48
2"	
1"	
3/4	
1/2	
3/8	
#4	10.57
#10	10.64
#20	11.23
#40	13.02
#60	14.31
#100	~~15.20~~
#200	18.49
Pan	21.41

WET WT. 309.48

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: D
Client Sample Number: T4-B4/4-02-A
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33D
Tare Weight	1.45
Wet Soil + Tare (g)	27.43
Dry Soil + Tare (g)	25.72

Tare Number	D
Tare Weight (g)	10.41
Weight Total Sample (g) (Air-dried, not sieved)	173.34
Weight Hydro Test Sample (g)	86.11
Tare + Oven Dry Plus #10 (g)	10.45
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	25.50

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: B
Hydro #: 115170
Calgon Batch #: 136

Place	8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	9:17:00	START			
	9:18:00	1	58	4.5	22.5
	9:19:00	2	53	4.5	22.5
	9:22:00	5	44	4.5	22.5
	9:32:00	15	35	4.5	22.5
	9:47:00	30	30	4.5	22.5
	10:17:00	60	26	4.5	22.5
	13:27:00	250	19.5	4.5	23.5
	9:17:00	1440	14	5	22.5

Sieve Analysis
Date Sieved: 8/3/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.44
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.48
#20	10.70
#40	11.20
#60	12.38
#100	13.82
#200	23.32
Pan	25.60

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: E
Client Sample Number: T4-B414-02-B
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33E
Tare Weight	1.45
Wet Soil + Tare (g)	27.30
Dry Soil + Tare (g)	25.84

Tare Number	JQ33E
Tare Weight (g)	10.46
Weight Total Sample (g) (Air-dried, not sieved)	122.04
Weight Hydro Test Sample (g)	79.59
Tare + Oven Dry Plus #10 (g)	10.46
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	24.34

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: BB
Hydro #: 115170
Calgon Batch #: 136

Place	8/1/06 TIME	▲ Time	Test ●ylinder	●algon Blank	Temp (°C)
	9:26:00	START			
	9:27:00	1	58	4.5	22.5
	9:28:00	2	52	4.5	22.5
	9:31:00	5	44	4.5	22.5
	9:41:00	15	35	4.5	22.5
	9:56:00	30	31	4.5	22.5
	10:26:00	60	27	4.5	22.5
	13:36:00	250	19	4.5	23.5
	9:26:00	1440	14	5	22.5

Sieve Analysis
Date Sieved: 8/3/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.47
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.47
#20	10.52
#40	10.81
#60	11.45
#100	13.21
#200	21.14
Pan	24.47

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: F
Client Sample Number: T4-B414-02-C
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33F
Tare Weight	1.46
Wet Soil + Tare (g)	25.38
Dry Soil + Tare (g)	23.56

Tare Number	JQ33F
Tare Weight (g)	10.41
Weight Total Sample (g) (Air-dried, not sieved)	124.76
Weight Hydro Test Sample (g)	80.84
Tare + Oven Dry Plus #10 (g)	10.47
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	23.55

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: AC 115170
Hydro #: ~~80.84~~ (HB)
Calgon Batch #: 136

Place

8/1/06	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
TIME	START			
9:35:00	1	58	4.5	22.5
9:36:00	2	54	4.5	22.5
9:37:00	5	44	4.5	22.5
9:40:00	15	37	4.5	22.5
9:50:00	30	32	4.5	22.5
10:05:00	60	27.5	4.5	22.5
10:35:00	250	20	4.5	23.5
13:45:00	1440	15	5	22.5
9:35:00				

Sieve Analysis
Date Sieved: Technician: Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.42
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.47
#20	10.58
#40	12.00
#60	16.29
#100	17.94
#200	22.23
Pan	23.64

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: G
Client Sample Number: T4-B414-03-A
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33G
Tare Weight	1.45
Wet Soil + Tare (g)	31.83
Dry Soil + Tare (g)	30.03

Tare Number	JQ33G
Tare Weight (g)	10.79
Weight Total Sample (g) (Air-dried, not sieved)	102.33
Weight Hydro Test Sample (g)	71.95
Tare + Oven Dry Plus #10 (g)	10.75
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	32.03

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: T
Hydro #: 115170 ~~71.95~~ (HB)
Calgon Batch #: 136

Place

8/1/06	
TIME	
9:44:00	START
9:45:00	1
9:46:00	2
9:49:00	5
9:59:00	15
10:14:00	30
10:44:00	60
13:54:00	250
9:44:00	1440

Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
START			
1	47	4.5	22.5
2	39	4.5	22.5
5	32	4.5	22.5
15	25	4.5	22.5
30	22	4.5	22.5
60	19	4.5	22.5
250	13.5	4.5	23.5
1440	11	5	22.5

Sieve Analysis
Date Sieved: 8/3/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.80
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.81
#20	10.86
#40	12.63
#60	16.09
#100	18.51
#200	28.73
Pan	32.14

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: H
Client Sample Number: T4-B414-03-B
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33H
Tare Weight	1.45
Wet Soil + Tare (g)	29.27
Dry Soil + Tare (g)	26.50

Tare Number	JQ33H
Tare Weight (g)	10.52
Weight Total Sample (g) (Air-dried, not sieved)	~~81.09~~ 108.91 (HB)
Weight Hydro Test Sample (g)	80.79
Tare + Oven Dry Plus #10 (g)	10.52
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	27.71

Date Set Up 7/27/06
Technician: AB
Hydro Beaker: BA
Hydro #: 11/5/70 ~~80.79~~ (HB)
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
9:53:00	START			
9:54:00	1	53	4.5	22.5
9:55:00	2	48	4.5	22.5
9:58:00	5	44	4.5	22.5
10:08:00	15	33	4.5	22.5
10:23:00	30	28	4.5	22.5
10:53:00	60	24	4.5	22.5
14:03:00	250	17	4.5	23.5
9:53:00	1440	13.5	5	22.5

Sieve Analysis
Date Sieved: Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.52
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.53
#20	10.85
#40	11.58
#60	13.35
#100	15.43
#200	25.98
Pan	27.80

± 1 min

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: I
Client Sample Number: T4-B414-03-C
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33I
Tare Weight	1.45
Wet Soil + Tare (g)	29.27
Dry Soil + Tare (g)	27.77

Tare Number	JQ33I
Tare Weight (g)	10.45
Weight Total Sample (g) (Air-dried, not sieved)	~~118.83~~ 116.69 (HB)
Weight Hydro Test Sample (g)	76.33
Tare + Oven Dry Plus #10 (g)	10.47
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	21.10

Date Set Up 7/27/06
Technician: HB
Hydro Beaker: 21
Hydro #: 115170
Calgon Batch #: 136

Place	8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	10:02:00	START			
	10:03:00	1	58	4.5	22.5
	10:04:00	2	53	4.5	22.5
	10:07:00	5	44	4.5	22.5
	10:17:00	15	35	4.5	22.5
	10:32:00	30	30	4.5	22.5
	11:02:00	60	25	4.5	22.5
	14:12:00	250	17	4.5	23.5
	10:02:00	1440	13	5	22.5

Sieve Analysis
Date Sieved: 8/3/06 Technician: gf Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.50
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.60
#40	11.53
#60	12.89
#100	13.98
#200	18.72
Pan	21.15

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: J

Client Sample Number: T4-B414-04-A

Description:

Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33J
Tare Weight	1.44
Wet Soil + Tare (g)	26.90
Dry Soil + Tare (g)	25.163

Tare Number	JQ33J
Tare Weight (g)	10.35
Weight Total Sample (g) (Air-dried, not sieved)	~~118.32~~ 117.77 (BB)
Weight Hydro Test Sample (g)	78.40
Tare + Oven Dry Plus #10 (g)	10.37
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	23.43

Date Set Up 7/27/06

Technician: HB

Hydro Beaker: AE

Hydro #: 115170

Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
10:11:00	START			
10:12:00	1	58	4.5	22.5
10:13:00	2	49	4.5	22.5
10:16:00	5	40	4.5	22.5
10:26:00	15	32	4.5	22.5
10:41:00	30	27.5	4.5	22.5
11:11:00	60	23.5	4.5	22.5
14:21:00	250	17.5	4.5	23.5
10:11:00	1440	13.5	5	22.5

Sieve Analysis

Date Sieved: 8/3/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.43
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.62
#40	10.90
#60	11.47
#100	12.55
#200	20.31
Pan	23.52

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: J-2
Client Sample Number:
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	J-2
Tare Weight	1.45
Wet Soil + Tare (g)	29.91
Dry Soil + Tare (g)	28.62

Tare Number	J-2
Tare Weight (g)	10.46
Weight Total Sample (g) (Air-dried, not sieved)	111.37
Weight Hydro Test Sample (g)	71.96
Tare + Oven Dry Plus #10 (g)	10.45
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	22.80

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: 11X
Hydro #: 199344
Calgon Batch #: 136

Place 8/1/06

TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
8:56:00	START				
8:57:00	1	58.5	5	22.5	F
8:58:00	2	50.5	5	22.5	F
9:01:00	5	40	5	22.5	
9:11:00	15	32	5	22.5	
9:26:00	30	27	5	22.5	
9:56:00	60	23	5	22.5	
13:06:00	250	17.5	5	23.5	
8:56:00	1440	12	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.47
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.76
#40	11.11
#60	11.53
#100	12.28
#200	18.65
Pan	22.90

40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: J-3
Client Sample Number:
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	J-3
Tare Weight	1.49
Wet Soil + Tare (g)	26.93
Dry Soil + Tare (g)	25.77

Tare Number	10.49
Tare Weight (g)	J-3
Weight Total Sample (g) (Air-dried, not sieved)	108.66
Weight Hydro Test Sample (g)	72.46
Tare + Oven Dry Plus #10 (g)	10.48
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	21.63

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: Z
Hydro #: 199344
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:05:00	START				
9:06:00	1	58	5	22.5	F
9:07:00	2	49.5	5	22.5	F
9:10:00	5	42	5	22.5	F
9:20:00	15	33.5	5	22.5	F
9:35:00	30	29	5	22.5	F
10:05:00	60	24.5	5	22.5	
13:15:00	250	20	5	23.5	
9:05:00	1440	13.5	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.47
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.50
#20	10.73
#40	10.97
#60	11.35
#100	11.99
#200	19.11
Pan	21.70

10
20
30
40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: K
Client Sample Number: T4-B414-04-13
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33K
Tare Weight	1.44
Wet Soil + Tare (g)	29.15
Dry Soil + Tare (g)	27.89

Tare Number	JQ33K
Tare Weight (g)	10.45
Weight Total Sample (g) (Air-dried, not sieved)	117.64 ~~118.13~~ BB
Weight Hydro Test Sample (g)	79.33
Tare + Oven Dry Plus #10 (g)	10.48
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	26.20

Date Set Up 7/27/06
Technician: fm
Hydro Beaker: AD
Hydro #: 199344
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:14:00	START				
9:15:00	1	57	5	22.5	F
9:16:00	2	49	5	22.5	F
9:19:00	5	41	5	22.5	F
9:29:00	15	32.5	5	22.5	F
9:44:00	30	28	5	22.5	
10:14:00	60	23	5	22.5	
13:24:00	250	17.5	5	~~23.5~~ fm	
9:14:00	1440	13	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.48
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.48
#20	10.55
#40	10.84
#60	11.33
#100	12.91
#200	22.94
Pan	26.25

20 30 40 50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: L

Client Sample Number: T4-B414-04-C

Description:

Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33L
Tare Weight	1.45
Wet Soil + Tare (g)	27.78
Dry Soil + Tare (g)	26.47

Tare Number	JQ33L
Tare Weight (g)	10.45
Weight Total Sample (g) (Air-dried, not sieved)	123.13 ~~123.93~~ BB
Weight Hydro Test Sample (g)	80.76
Tare + Oven Dry Plus #10 (g)	10.43
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	29.36

Date Set Up 7/27/06

Technician: TM

Hydro Beaker: A1

Hydro #: 199344

Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:23:00	START				
9:24:00	1	56	5	22.5	F
9:25:00	2	48.5	5	22.5	F
9:28:00	5	41	5	22.5	F
9:38:00	15	33.5	5	22.5	F
9:53:00	30	29	5	22.5	
10:23:00	60	24	5	22.5	
13:33:00	250	18	5	23.5	
9:23:00	1440	12.5	5	22.5	

Sieve Analysis

Date Sieved: 8/3/06 Technician: BB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.46
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.71
#40	11.14
#60	12.31
#100	15.16
#200	27.33
Pan	29.40

20 30 40 50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: M
Client Sample Number: T4-53-01-D
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33M
Tare Weight	1.45
Wet Soil + Tare (g)	25.64
Dry Soil + Tare (g)	24.45

Tare Number	JQ33M
Tare Weight (g)	10.51
Weight Total Sample (g) (Air-dried, not sieved)	120.31 ~~120.99~~ BB
Weight Hydro Test Sample (g)	77.64
Tare + Oven Dry Plus #10 (g)	10.60
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	26.14

Date Set Up 7/27/06
Technician: TM
Hydro Beaker: D2
Hydro #: 199344
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:32:00	START				
9:33:00	1	57.5	5	22.5	F
9:34:00	2	52.5	5	22.5	F
9:37:00	5	45	5	22.5	F
9:47:00	15	37	5	22.5	F
10:02:00	30	31.5	5	22.5	F
10:32:00	60	25.5	5	22.5	
13:42:00	250	18.5	5	23.5	
9:32:00	1440	13	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.51
2"	
1"	
3/4	
1/2	
3/8	
#4	10.54
#10	10.61
#20	10.81
#40	11.95
#60	16.79
#100	20.78
#200	25.16
Pan	26.15

10
20
30
40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: N
Client Sample Number: T4-S3-01-E
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33N
Tare Weight	1.46
Wet Soil + Tare (g)	28.38
Dry Soil + Tare (g)	27.24

Tare Number	JQ33N
Tare Weight (g)	10.37
Weight Total Sample (g) (Air-dried, not sieved)	121.27 ~~121.02~~ (BB)
Weight Hydro Test Sample (g)	77.82
Tare + Oven Dry Plus #10 (g)	10.47
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	37.87

Date Set Up 2/27/06
Technician: TM
Hydro Beaker: I
Hydro #: 199344
Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:41:00	START				
9:42:00	1	48.5	5	22.5	F
9:43:00	2	45	5	22.5	F
9:46:00	5	31	5	22.5	F
9:56:00	15	29.5	5	22.5	
10:11:00	30	24	5	22.5	
10:41:00	60	20	5	22.5	
13:51:00	250	14	5	23.5	
9:41:00	1440	11	5	22.5	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.40
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.50
#20	10.78
#40	12.32
#60	19.08
#100	26.06
#200	36.41
Pan	37.87

20
35
40

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: 0
Client Sample Number: T4-S3-01-F
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ330
Tare Weight	1.45
Wet Soil + Tare (g)	29.71
Dry Soil + Tare (g)	28.70

Tare Number	JQ330
Tare Weight (g)	10.52
Weight Total Sample (g) (Air-dried, not sieved)	127.23 ~~131.60~~ BB
Weight Hydro Test Sample (g)	85.37
Tare + Oven Dry Plus #10 (g)	12.44
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	63.76

Date Set Up 7/27/06
Technician: fm
Hydro Beaker: AT
Hydro #: 199344
Calgon Batch #: 136

Place 8/1/06

TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:50:00	START				
9:51:00	1	35.5	5	22.5	F
9:52:00	2	32	5	22.5	F
9:55:00	5	27	5	22.5	F
10:05:00	15	24	5	22.5	F
10:20:00	30	20	5	22.5	
10:50:00	60	17	5	22.5	
14:00:00	250	12	5	23.5	
9:50:00	1440	9	4.5	23	

Sieve Analysis
Date Sieved: 8/3/06 Technician: BB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.60
2"	
1"	
3/4	
1/2	
3/8	
#4	11.60
#10	12.08
#20	13.28
#40	17.54
#60	33.83
#100	48.95
#200	61.97
Pan	63.72

10
15
25
30

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: P
Client Sample Number: T4-S3-01-G
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33P
Tare Weight	1.45
Wet Soil + Tare (g)	28.34
Dry Soil + Tare (g)	26.70

Tare Number	JQ33P
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	130.32 ~~132.82~~ BB
Weight Hydro Test Sample (g)	~~10.42~~ B
Tare + Oven Dry Plus #10 (g)	84.54 12.10
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	38.83

Date Set Up 7/27/06
Technician: TM
Hydro Beaker: EC
Hydro #: 136
Calgon Batch #: 199344

Place

TIME	8/1/06 Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:59:00	START				
10:00:00	1	55	5	22.5	F
10:01:00	2	51	5	22.5	F
10:04:00	5	44	5	22.5	F
10:14:00	15	37	5	22.5	
10:29:00	30	31	5	22.5	
10:59:00	60	26.5	5	22.5	
14:09:00	250	18.5	5	23.5	
9:59:00	1440	13.5	4.5	23	

Sieve Analysis
Date Sieved: 8/2/06 Technician: BB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.45
2"	
1"	
3/4	
1/2	
3/8	
#4	11.75
#10	11.96
#20	12.67
#40	15.55
#60	24.48
#100	31.39
#200	38.32
Pan	38.85

11455.50 1

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ33 ARI Sample No.: Q

Client Sample Number: T4-S3-01-H

Description:

Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	JQ33Q
Tare Weight	1.45
Wet Soil + Tare (g)	32.49
Dry Soil + Tare (g)	30.87

Tare Number	JQ33Q
Tare Weight (g)	10.49
Weight Total Sample (g) (Air-dried, not sieved)	127.03 ~~128.78~~ BB
Weight Hydro Test Sample (g)	68.65
Tare + Oven Dry Plus #10 (g)	18.24
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	37.88

Date Set Up 7/27/06

Technician: TM

Hydro Beaker: AU

Hydro #: 199344

Calgon Batch #: 136

Place

8/1/06 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
10:08:00	START				
10:09:00	1	47.5	5	22.5	F
10:10:00	2	44.5	5	22.5	F
10:13:00	5	37	5	22.5	F
10:23:00	15	32	5	22.5	
10:38:00	30	28	5	22.5	
11:08:00	60	24	5	22.5	
14:18:00	250	16.5	5	23.5	
10:08:00	1440	12	4.5	23.5	

Sieve Analysis

Date Sieved: 8/3/06 Technician: BB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.53
2"	
1"	
3/4	
1/2	
3/8	
#4	16.99
#10	17.74
#20	18.59
#40	20.65
#60	27.02
#100	31.88
#200	36.66
Pan	37.92

20 —
30 —
40 —