

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021915\
 Data File : BG016021.D
 Acq On : 20 Feb 2015 3:28
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-3PPM-SOM0
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 20 07:28:24 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 20 07:16:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	90196	20.00	ng/ul	0.00
16) Naphthalene-d8	10.60	136	395904	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.44	164	238007	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.17	188	506265	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	559573	20.00	ng/ul	0.00
83) Perylene-d12	23.65	264	547461	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.97	99	261743	30.50	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.15	67	163296	32.22	ng/ul	0.00
7) 2-Chlorophenol-d4	7.34	132	203360	32.03	ng/ul	0.00
11) 4-Methylphenol-d8	8.50	113	199893	31.48	ng/ul	0.00
17) Nitrobenzene-d5	8.97	128	100400	35.88	ng/ul	0.00
20) 2-Nitrophenol-d4	9.68	143	90755	35.16	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.21	165	170416	30.44	ng/ul	0.00
27) 4-Chloroaniline-d4	10.73	131	310062	50.27	ng/ul	0.00
41) Dimethylphthalate-d6	13.85	166	561707	35.30	ng/ul	0.00
44) Acenaphthylene-d8	14.13	160	743425	33.01	ng/ul	0.00
49) 4-Nitrophenol-d4	14.62	143	90498	28.28	ng/ul	0.00
55) Fluorene-d10	15.43	176	539672	33.74	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.54	200	41048	21.03	ng/ul	0.00
68) Anthracene-d10	17.27	188	821638	34.22	ng/ul	0.00
76) Pyrene-d10	19.56	212	896209	34.10	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.51	264	847046	34.12	ng/ul	0.00

Target Compounds

						Qvalue
2) Benzaldehyde	6.98	77	278	0.05	ng/ul#	1
6) Bis(2-Chloroethyl)ether	7.24	93	1037	0.15	ng/ul#	84
10) 2,2'-oxybis(1-Chloropropan	8.50	45	1429	0.16	ng/ul#	79
13) N-Nitroso-di-n-propylamine	8.54	70	55	0.01	ng/ul#	26
18) Nitrobenzene	8.96	77	411	0.06	ng/ul#	36
19) Isophorone	9.68	82	5255	0.37	ng/ul#	63
26) Naphthalene	10.72	128	88	0.00	ng/ul#	69
30) Caprolactam	11.53	113	57	0.02	ng/ul#	1
34) 1,2,4,5-Tetrachlorobenzene	12.63	216	119	0.02	ng/ul#	25
42) Dimethylphthalate	13.85	163	343	0.02	ng/ul#	1
50) 4-Nitrophenol	14.75	109	1172	0.63	ng/ul#	1
52) 2,4-Dinitrotoluene	14.75	165	145	0.04	ng/ul#	1
56) Fluorene	15.42	166	1353	0.07	ng/ul#	11
58) 4-Nitroaniline	15.54	138	133	0.03	ng/ul#	1
69) Anthracene	17.27	178	304	0.01	ng/ul#	1
70) 1,2,3,4-Tetrachlorobenzene	13.23	216	14319	2.22	ng/uL	98
71) Pentachlorobenzene	14.75	250	28013	4.44	ng/uL	93
73) Di-n-butylphthalate	18.15	149	639	0.02	ng/ul#	78
77) Pyrene	19.56	202	1330	0.04	ng/ul#	1
78) Butylbenzylphthalate	20.33	149	121	0.01	ng/ul#	26
80) Benzo(a)anthracene	21.35	228	1371	0.04	ng/ul#	57
81) Bis(2-ethylhexyl)phthalate	21.42	149	75	0.00	ng/ul#	50
82) Chrysene	21.35	228	1371	0.05	ng/ul#	56
84) Di-n-octyl phthalate	22.16	149	190	0.01	ng/ul	100

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Misc : MDL-SOIL-3PPM-SOM0
ALS Vial : 21 Sample Multiplier: 1

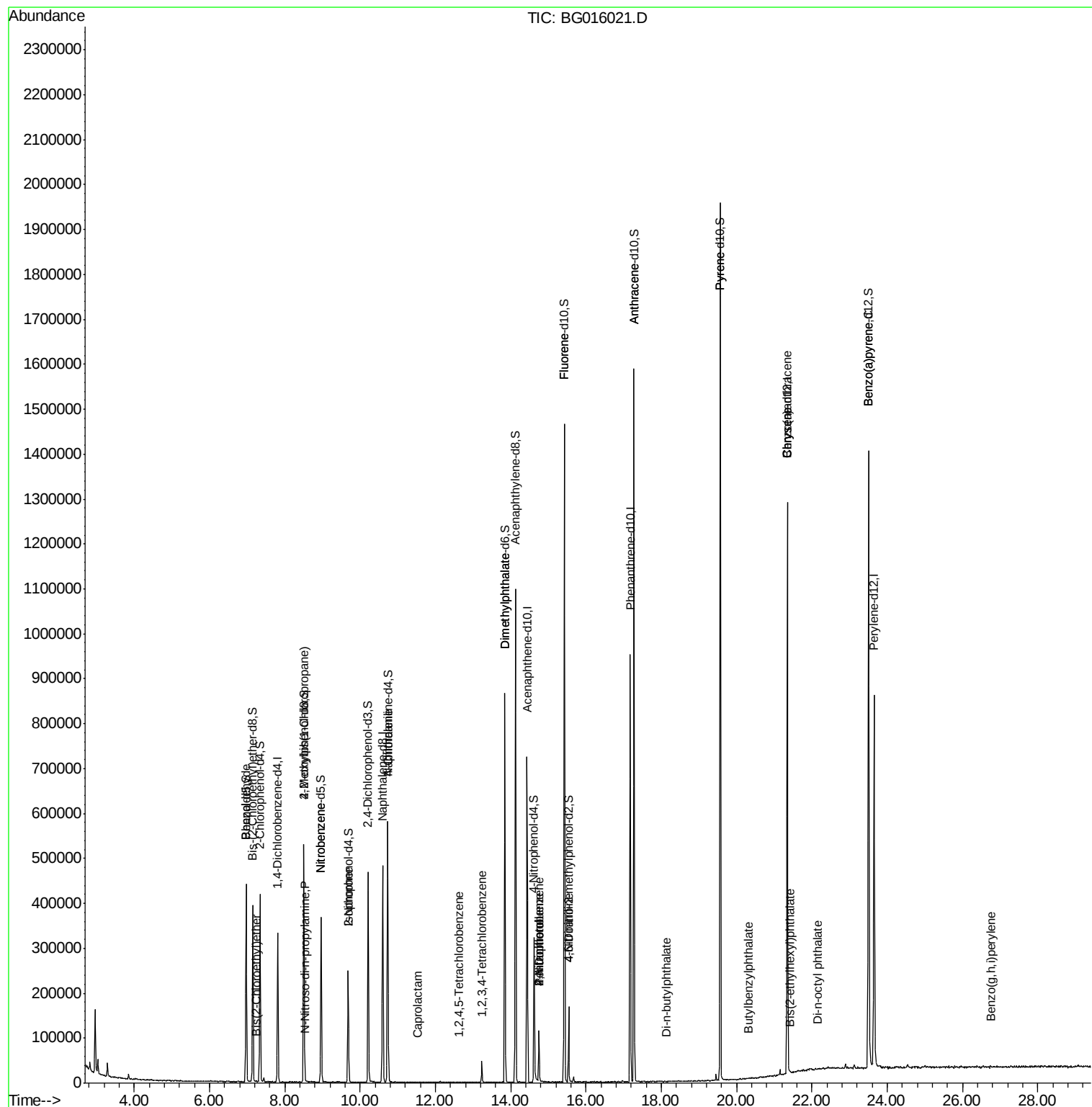
Quant Time: Feb 20 07:28:24 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Feb 20 07:16:53 2015
Response via : Initial Calibration

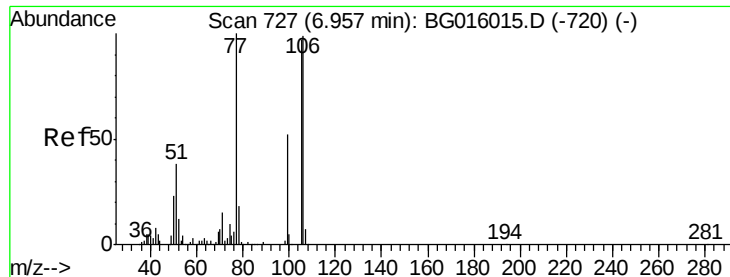
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.51	252	2943	0.10	ng/ul#	80
91) Benzo(g,h,i)perylene	26.75	276	277	0.01	ng/ul#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Benzaldehyde

Concen: 0.05 ng/ul

RT: 6.98 min Scan# 730

Delta R.T. 0.02 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

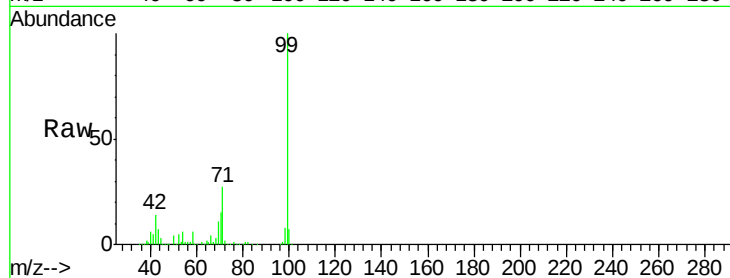
Tgt Ion: 77 Resp: 278

Ion Ratio Lower Upper

77 100

105 0.0 76.6 114.8#

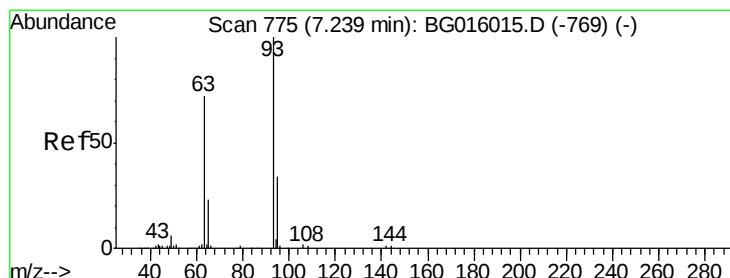
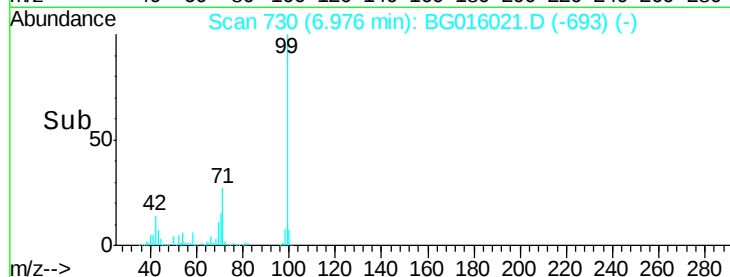
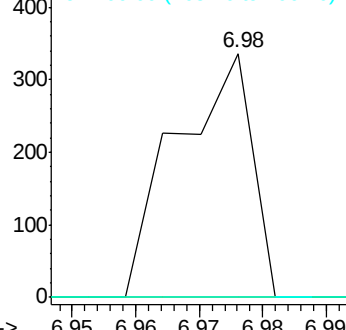
106 0.0 78.2 117.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#6

Bis(2-Chloroethyl)ether

Concen: 0.15 ng/ul

RT: 7.24 min Scan# 775

Delta R.T. 0.00 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

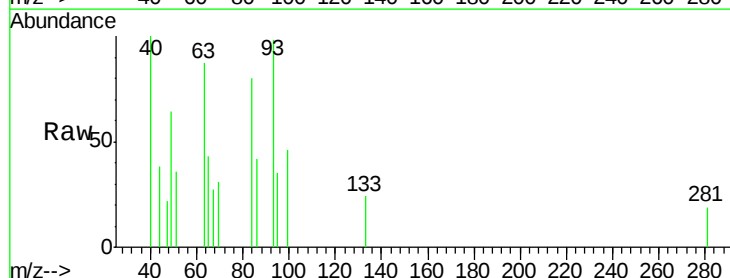
Tgt Ion: 93 Resp: 1037

Ion Ratio Lower Upper

93 100

63 89.0 57.5 86.3#

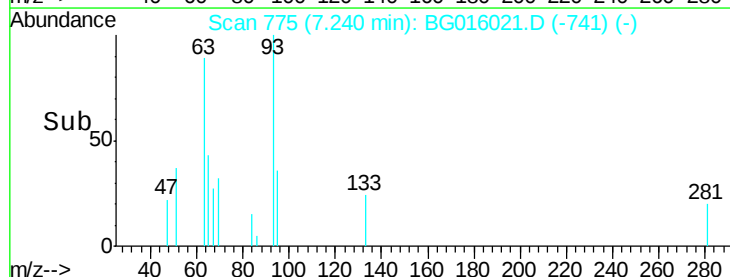
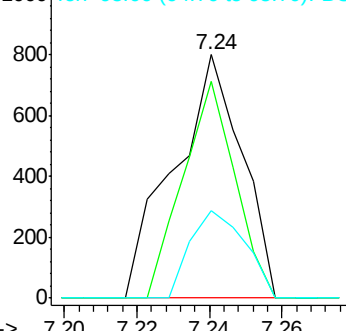
95 36.1 25.8 38.6

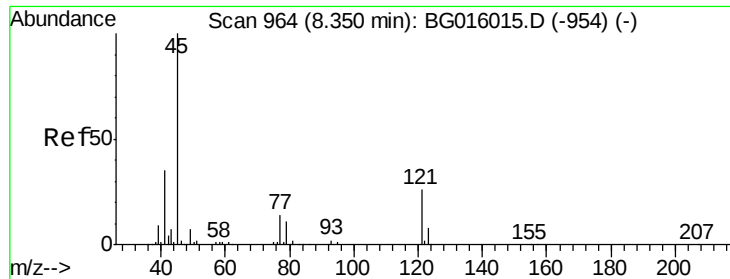


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

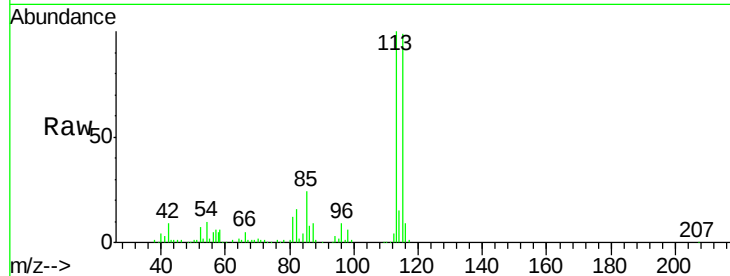
Ion 95.00 (94.70 to 95.70): BGC



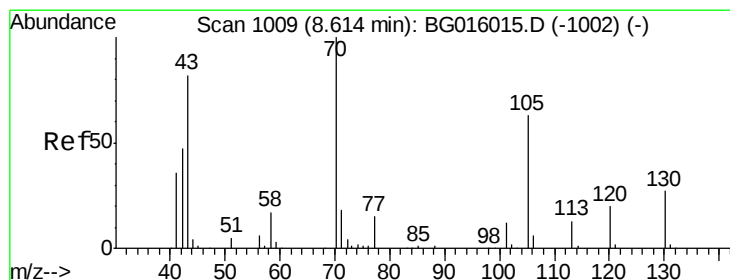
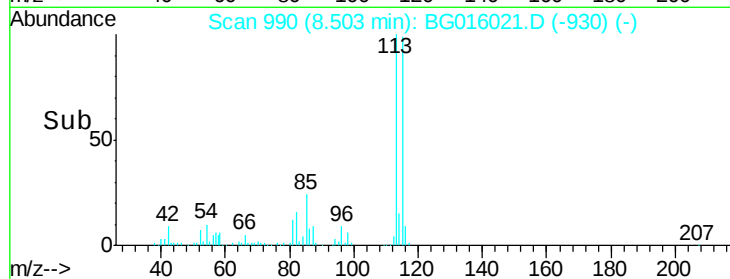
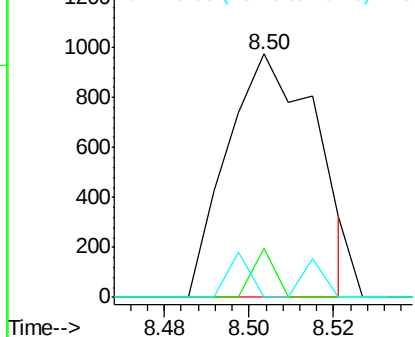


#10
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.16 ng/ul
 RT: 8.50 min Scan# 990
 Delta R.T. 0.15 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

Tgt Ion: 45 Resp: 1429
 Ion Ratio Lower Upper
 45 100
 77 20.3 11.4 17.2#
 79 0.0 9.0 13.6#

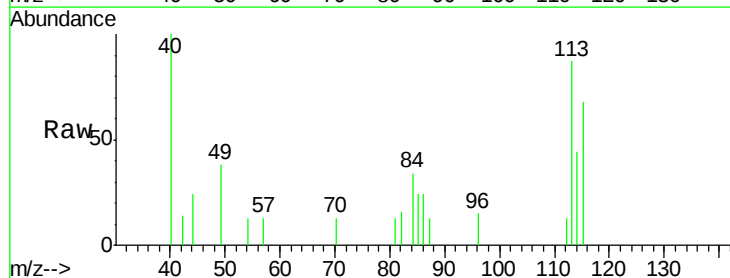


Abundance Ion 45.00 (44.70 to 45.70): BGC
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 79.00 (78.70 to 79.70): BGC

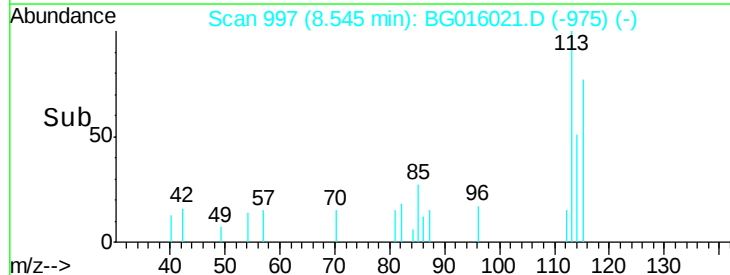
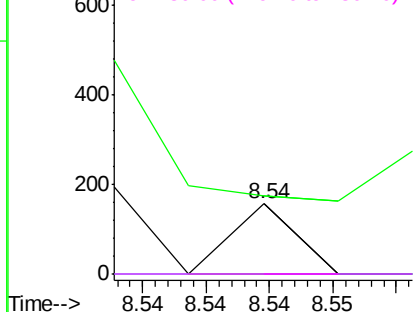


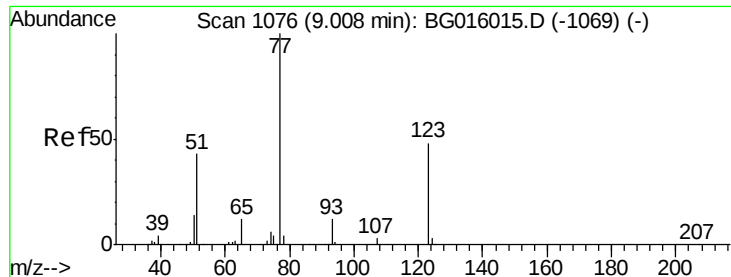
#13
 N-Nitroso-di-n-propylamine
 Concen: 0.01 ng/ul
 RT: 8.54 min Scan# 997
 Delta R.T. -0.07 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

Tgt Ion: 70 Resp: 55
 Ion Ratio Lower Upper
 70 100
 42 112.2 37.8 56.6#
 101 0.0 9.3 13.9#
 130 0.0 22.2 33.2#



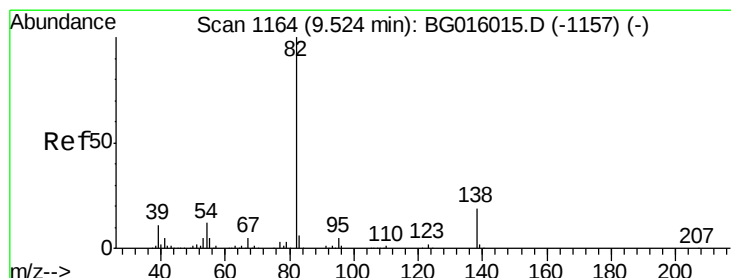
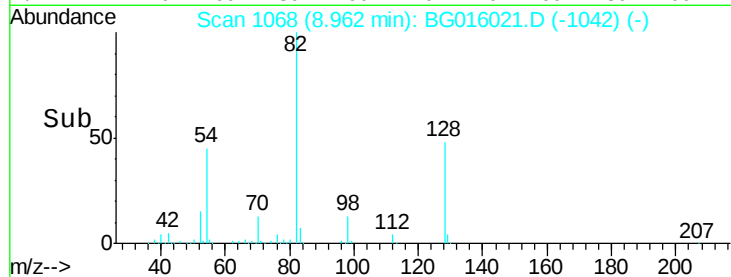
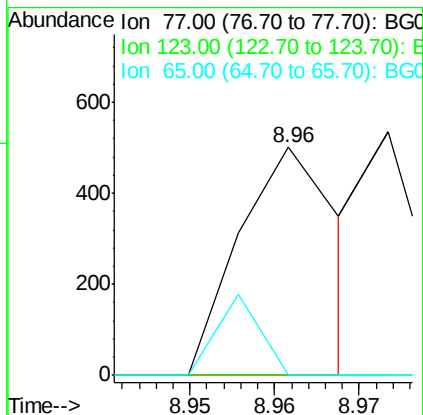
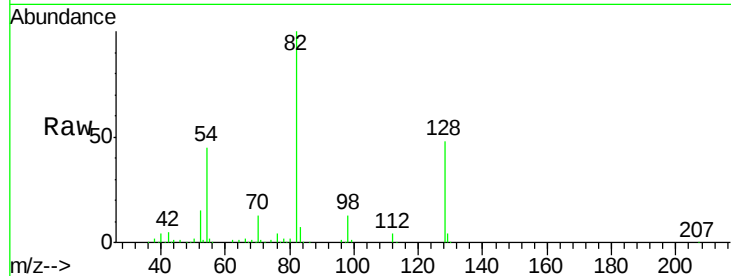
Abundance Ion 70.00 (69.70 to 70.70): BGC
 Ion 42.00 (41.70 to 42.70): BGC
 Ion 101.00 (100.70 to 101.70): BGC
 Ion 130.00 (129.70 to 130.70): BGC





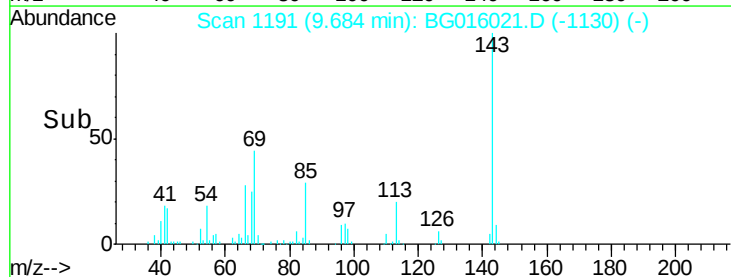
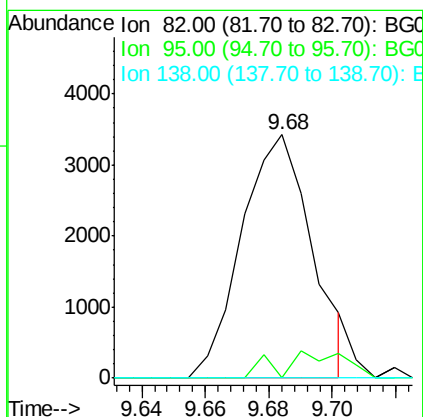
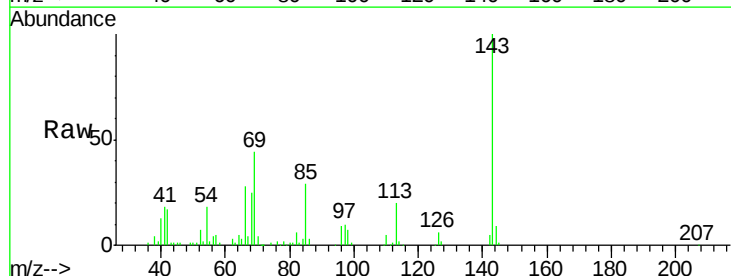
#18
Nitrobenzene
Concen: 0.06 ng/ul
RT: 8.96 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

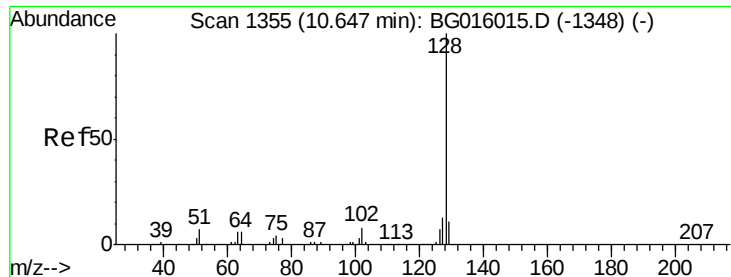
Tgt Ion: 77 Resp: 411
Ion Ratio Lower Upper
77 100
123 0.0 39.9 59.9#
65 0.0 11.0 16.6#



#19
Isophorone
Concen: 0.37 ng/ul
RT: 9.68 min Scan# 1191
Delta R.T. 0.16 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

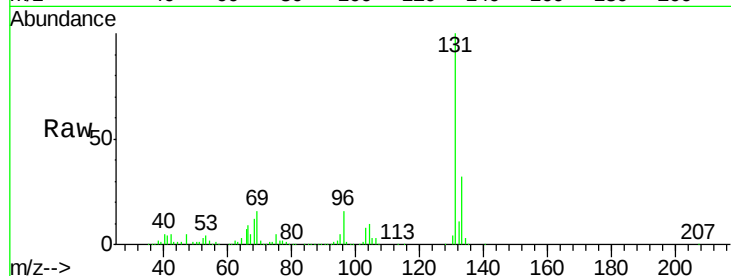
Tgt Ion: 82 Resp: 5255
Ion Ratio Lower Upper
82 100
95 0.0 4.6 6.8#
138 0.0 15.4 23.2#



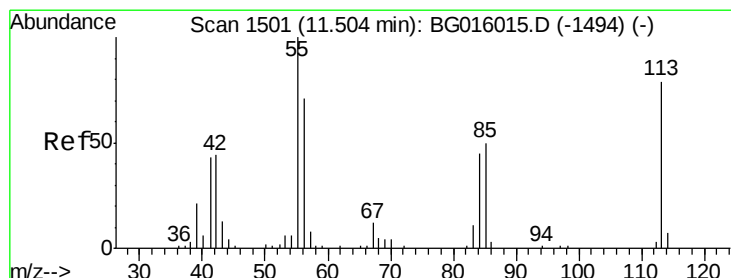
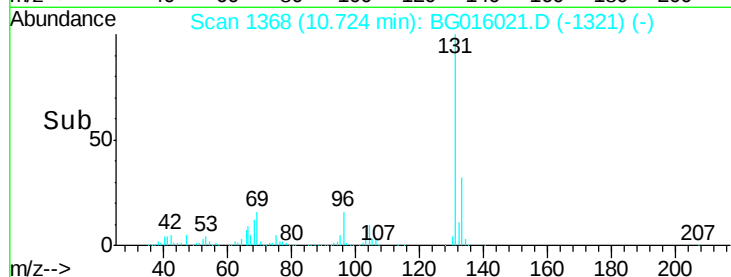
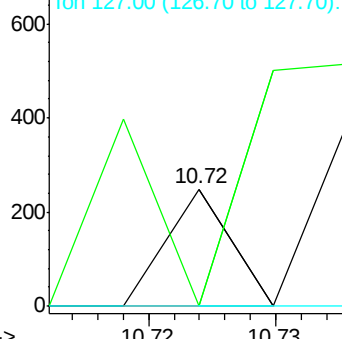


#26
Naphthalene
Concen: 0.00 ng/ul
RT: 10.72 min Scan# 1368
Delta R.T. 0.08 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion:128 Resp: 88
Ion Ratio Lower Upper
128 100
129 0.0 8.7 13.1#
127 0.0 10.4 15.6#

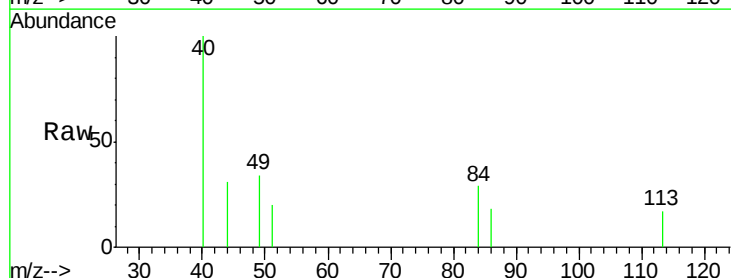


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

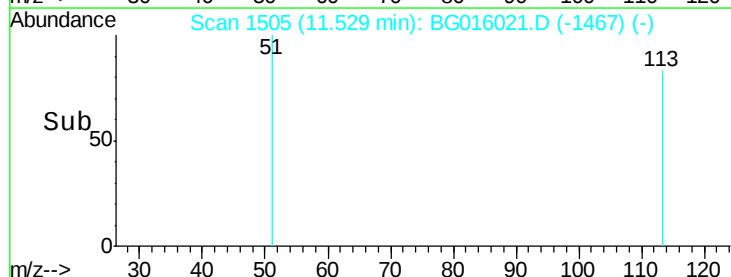
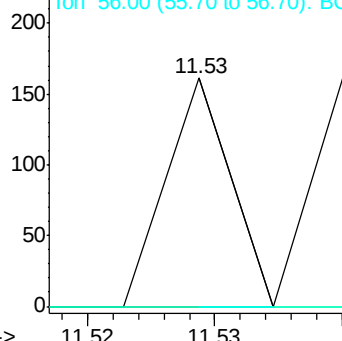


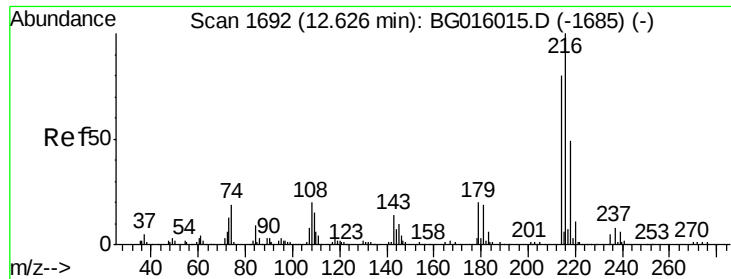
#30
Caprolactam
Concen: 0.02 ng/ul
RT: 11.53 min Scan# 1505
Delta R.T. 0.02 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion:113 Resp: 57
Ion Ratio Lower Upper
113 100
55 0.0 101.4 152.2#
56 0.0 71.0 106.6#



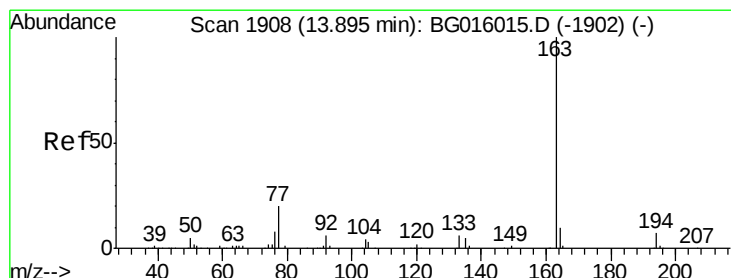
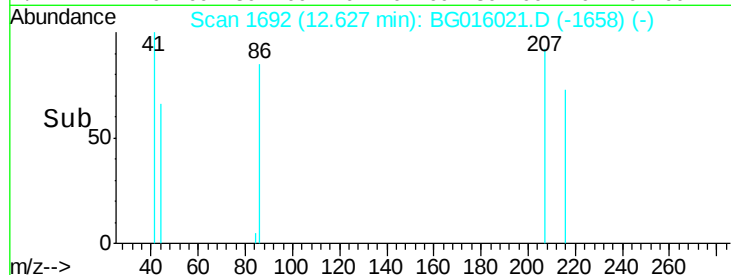
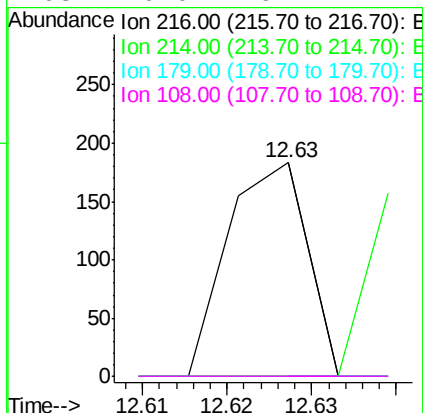
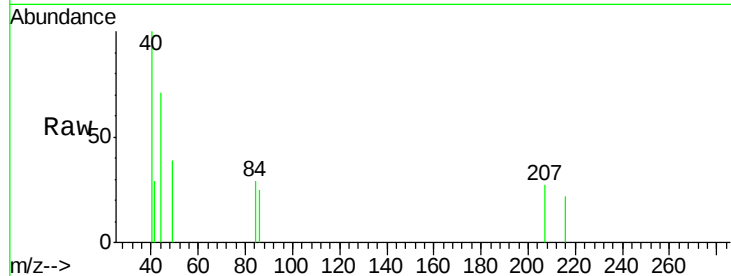
Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BG
Ion 56.00 (55.70 to 56.70): BG





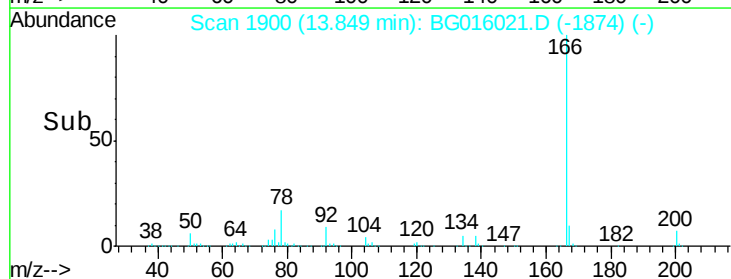
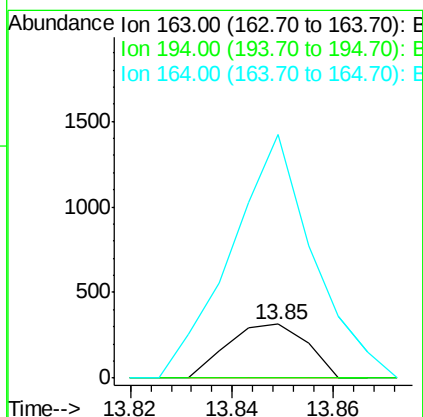
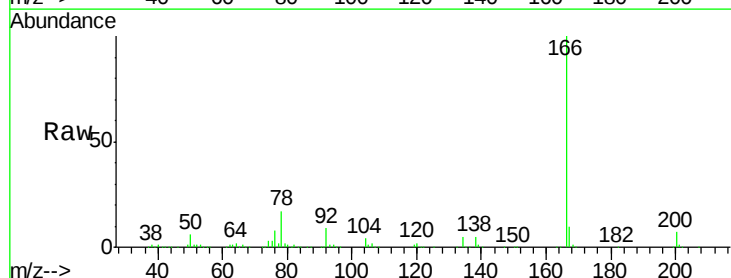
#34
 1,2,4,5-Tetrachlorobenzene
 Concen: 0.02 ng/ul
 RT: 12.63 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

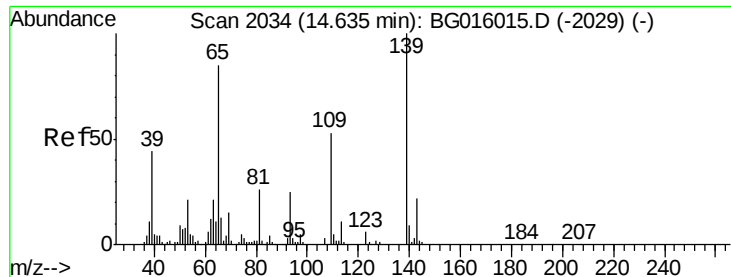
Tgt Ion:	216	Resp:	119
Ion	Ratio	Lower	Upper
216	100		
214	0.0	64.3	96.5#
179	0.0	15.7	23.5#
108	0.0	16.1	24.1#



#42
 Dimethylphthalate
 Concen: 0.02 ng/ul
 RT: 13.85 min Scan# 1900
 Delta R.T. -0.05 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

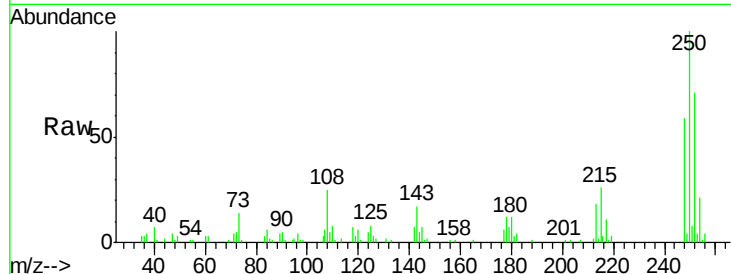
Tgt Ion:	163	Resp:	343
Ion	Ratio	Lower	Upper
163	100		
194	0.0	5.3	7.9#
164	451.4	8.5	12.7#



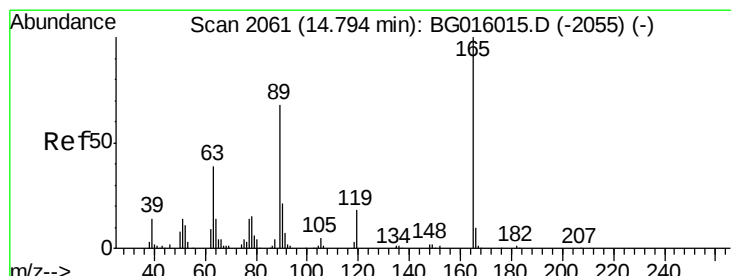
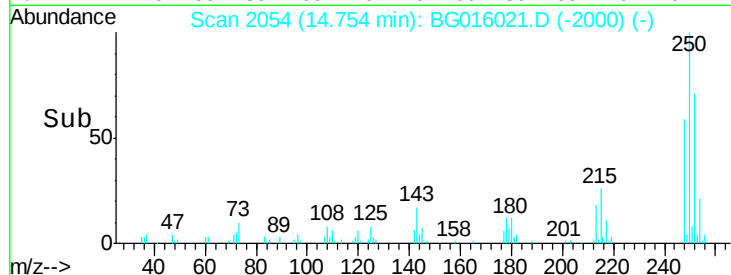
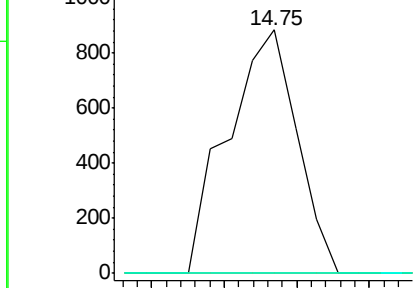


#50
4-Nitrophenol
Concen: 0.63 ng/ul
RT: 14.75 min Scan# 2054
Delta R.T. 0.12 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion:109 Resp: 1172
Ion Ratio Lower Upper
109 100
139 0.0 146.1 219.1#
65 0.0 123.5 185.3#

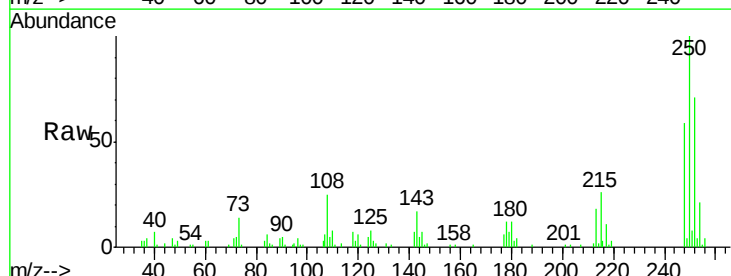


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B

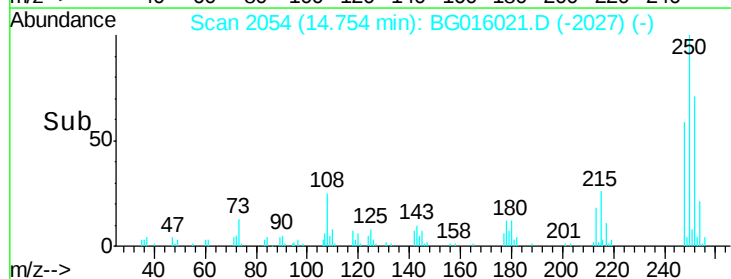
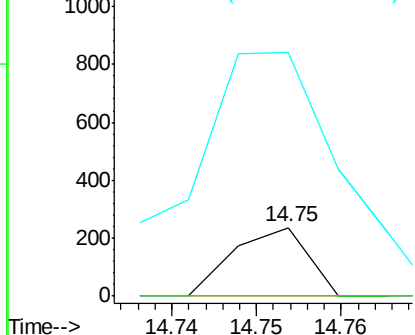


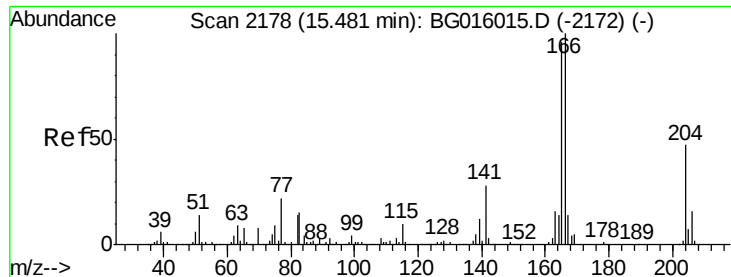
#52
2,4-Dinitrotoluene
Concen: 0.04 ng/ul
RT: 14.75 min Scan# 2054
Delta R.T. -0.04 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion:165 Resp: 145
Ion Ratio Lower Upper
165 100
63 0.0 28.0 42.0#
182 353.4 4.1 6.1#



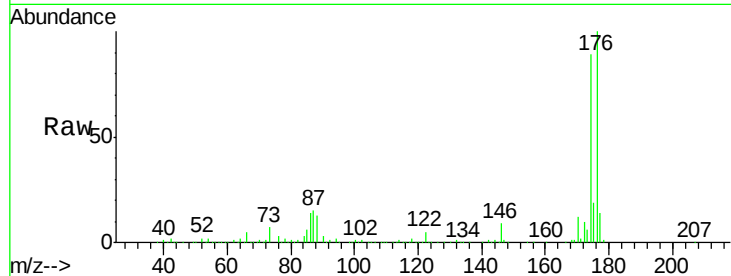
Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): B
Ion 182.00 (181.70 to 182.70): E



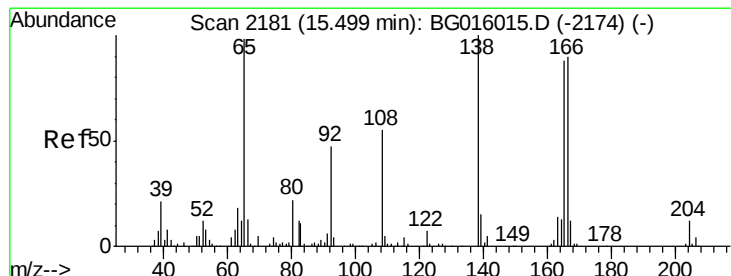
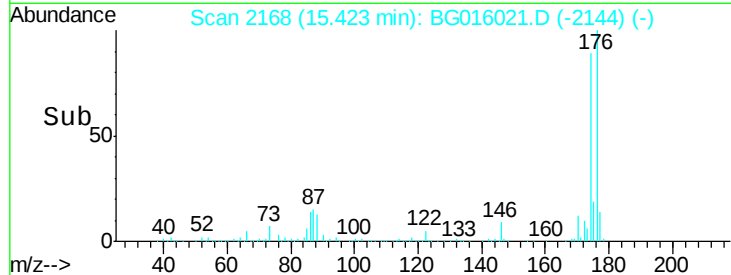
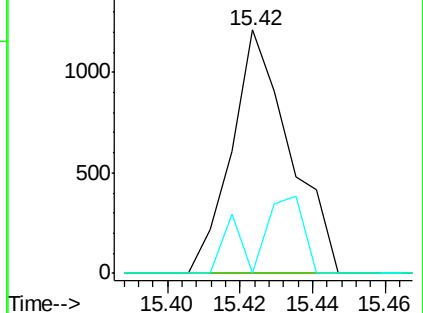


#56
 Fluorene
 Concen: 0.07 ng/ul
 RT: 15.42 min Scan# 2168
 Delta R.T. -0.06 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

Tgt Ion:166 Resp: 1353
 Ion Ratio Lower Upper
 166 100
 165 0.0 75.4 113.2#
 167 0.0 11.0 16.4#

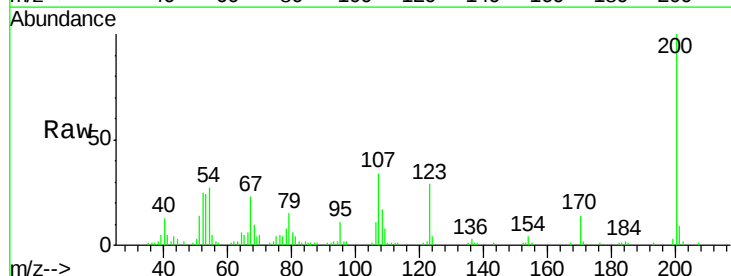


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

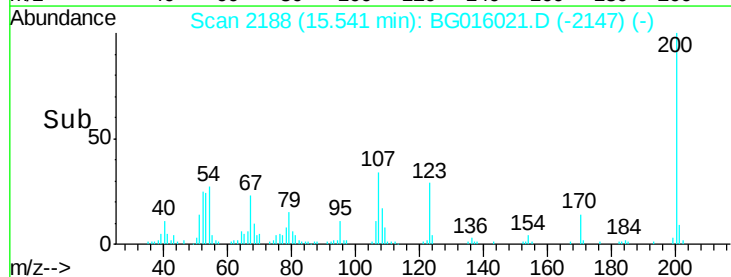
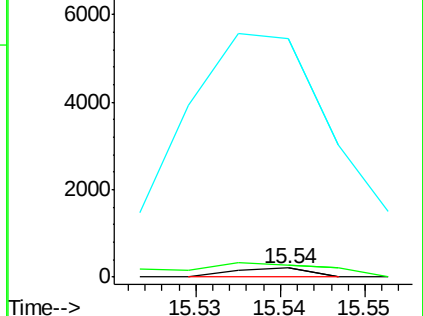


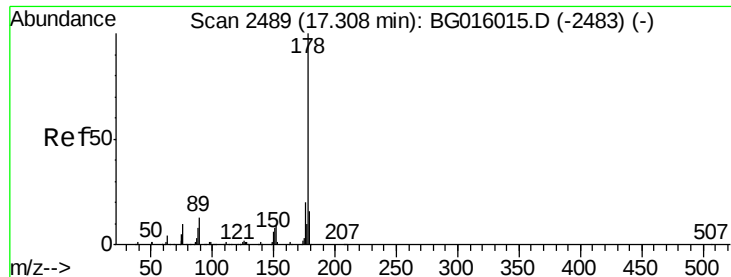
#58
 4-Nitroaniline
 Concen: 0.03 ng/ul
 RT: 15.54 min Scan# 2188
 Delta R.T. 0.04 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

Tgt Ion:138 Resp: 133
 Ion Ratio Lower Upper
 138 100
 92 135.1 38.1 57.1#
 108 2624.0 46.4 69.6#



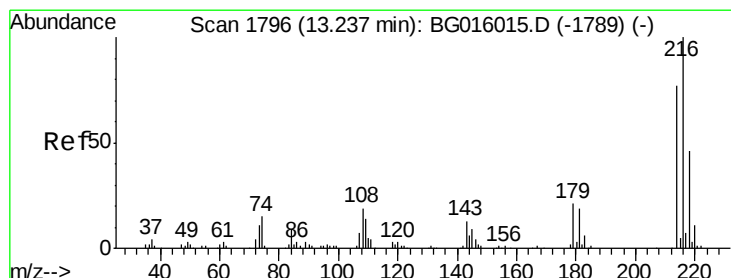
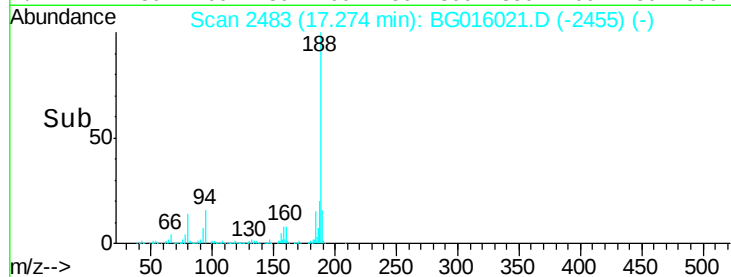
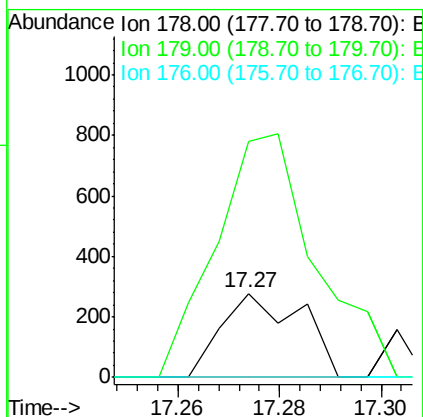
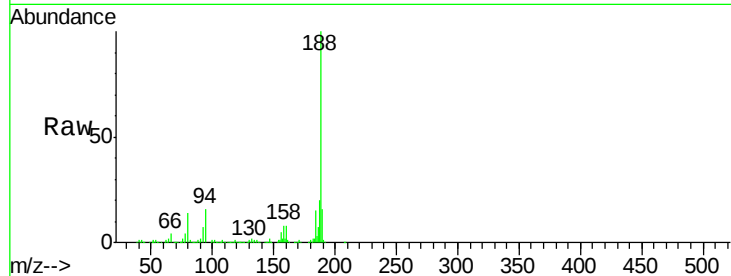
Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BG
 Ion 108.00 (107.70 to 108.70): E





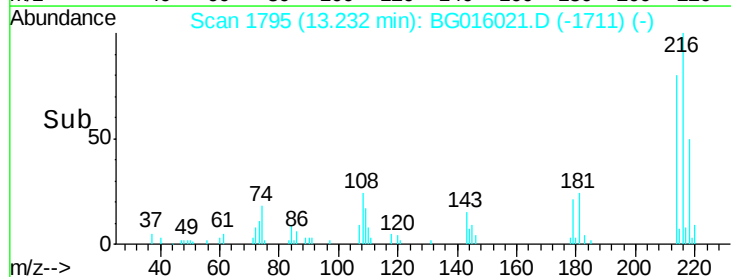
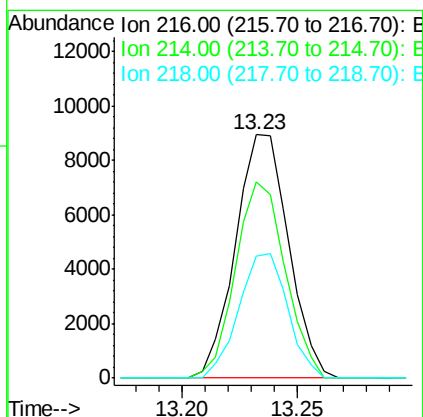
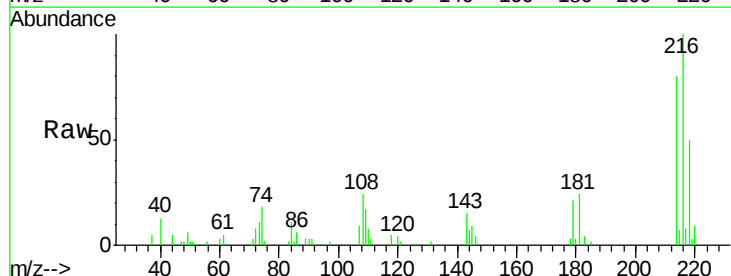
#69
 Anthracene
 Concen: 0.01 ng/uL
 RT: 17.27 min Scan# 2483
 Delta R.T. -0.03 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

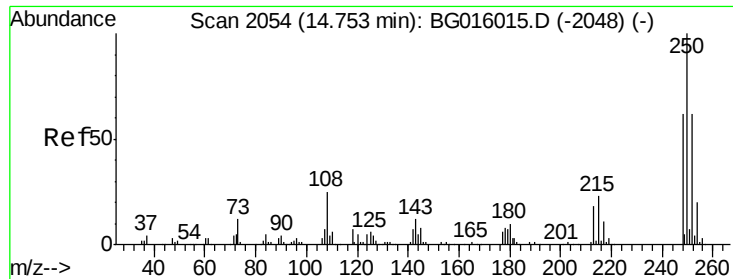
Tgt Ion:178 Resp: 304
 Ion Ratio Lower Upper
 178 100
 179 281.6 12.9 19.3#
 176 0.0 15.7 23.5#



#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 2.22 ng/uL
 RT: 13.23 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: BG016021.D
 Acq: 20 Feb 2015 3:28

Tgt Ion:216 Resp: 14319
 Ion Ratio Lower Upper
 216 100
 214 80.4 64.5 96.7
 218 50.0 37.9 56.9





#71

Pentachlorobenzene

Concen: 4.44 ng/uL

RT: 14.75 min Scan# 2054

Delta R.T. 0.00 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

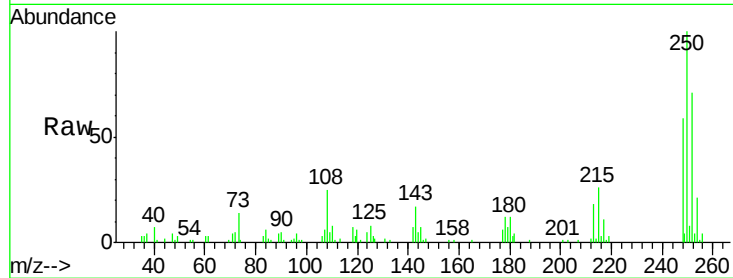
Tgt Ion:250 Resp: 28013

Ion Ratio Lower Upper

250 100

248 59.3 50.5 75.7

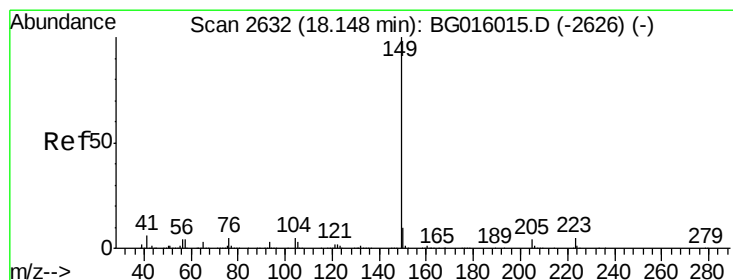
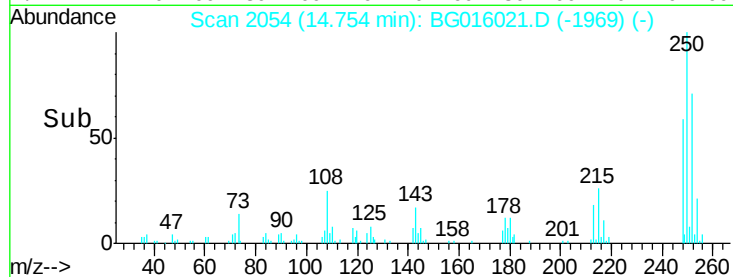
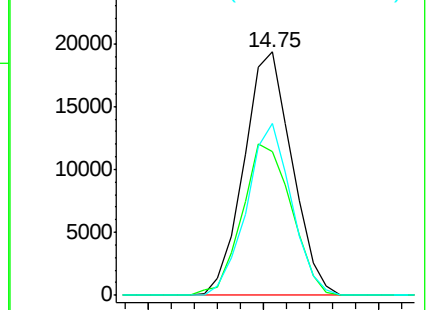
252 70.5 50.7 76.1



Abundance Ion 250.00 (249.70 to 250.70): E

Ion 248.00 (247.70 to 248.70): E

Ion 252.00 (251.70 to 252.70): E



#73

Di-n-butylphthalate

Concen: 0.02 ng/uL

RT: 18.15 min Scan# 2632

Delta R.T. 0.00 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

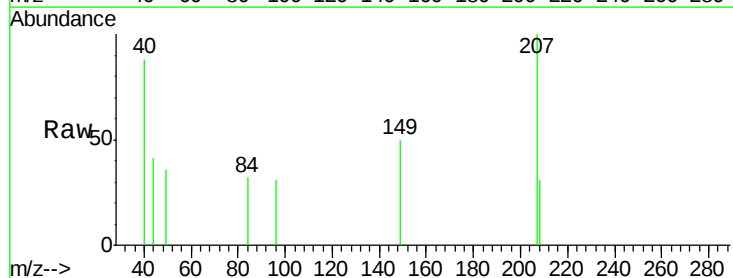
Tgt Ion:149 Resp: 639

Ion Ratio Lower Upper

149 100

150 0.0 7.6 11.4#

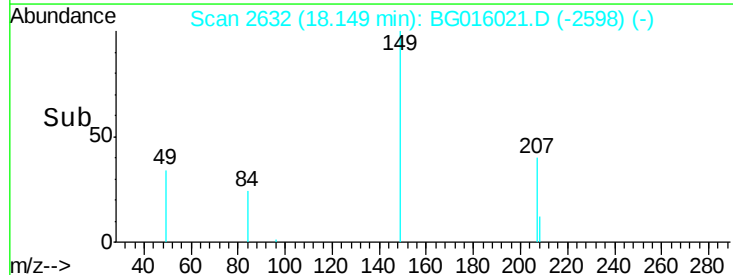
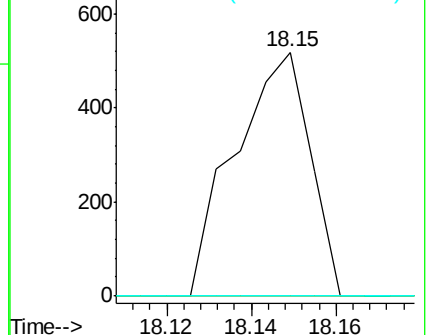
104 0.0 3.7 5.5#

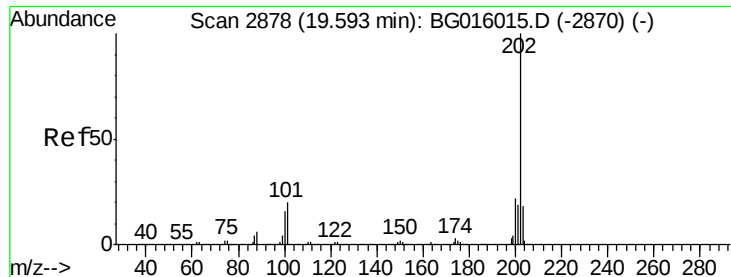


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#77

Pyrene

Concen: 0.04 ng/ul

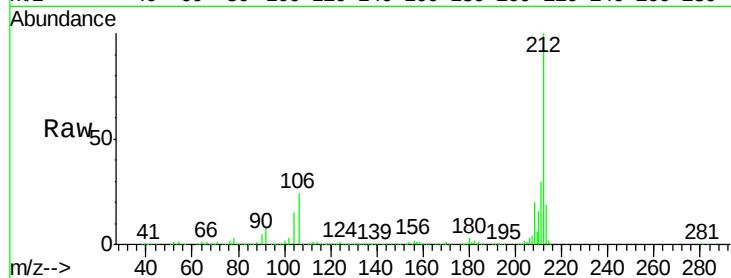
RT: 19.56 min Scan# 2873

Delta R.T. -0.03 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

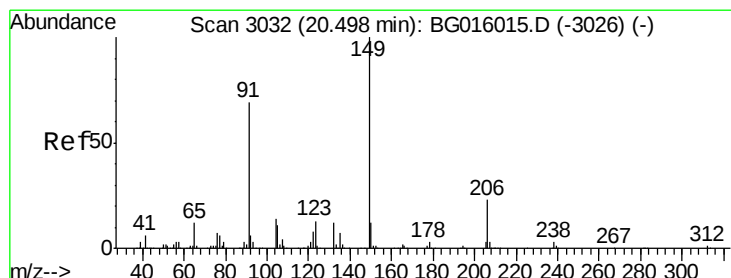
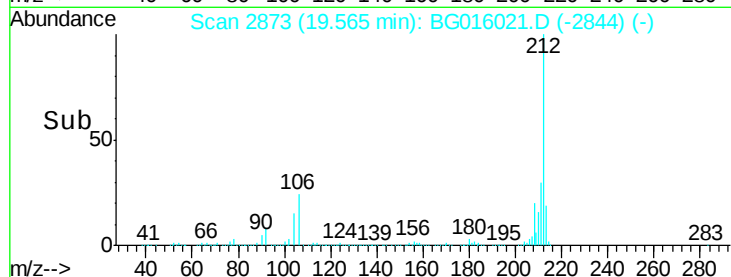
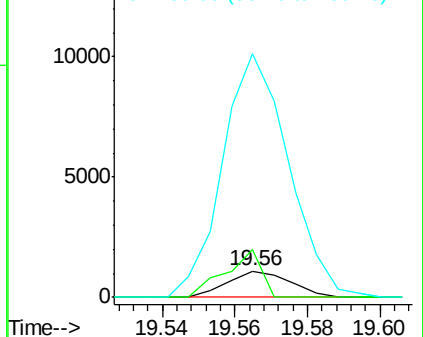
Tgt Ion:	202	Resp:	1330
Ion	Ratio	Lower	Upper
202	100		
101	181.0	15.8	23.8#
100	931.9	12.7	19.1#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#78

Butylbenzylphthalate

Concen: 0.01 ng/ul

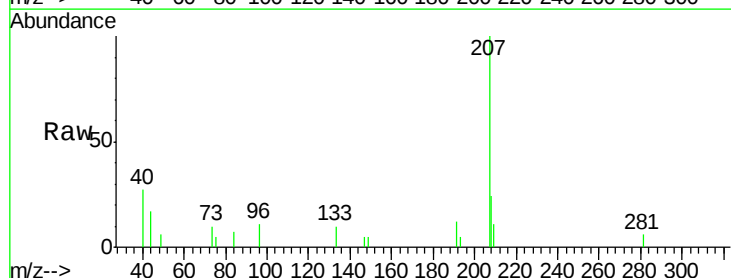
RT: 20.33 min Scan# 3003

Delta R.T. -0.17 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

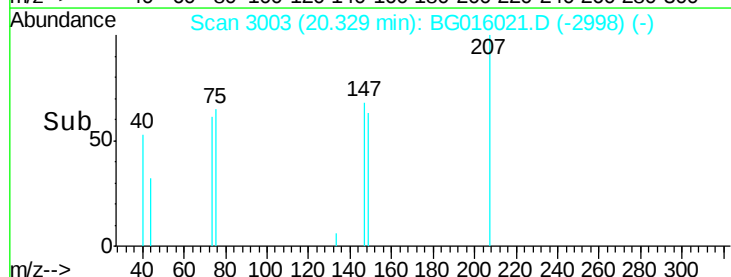
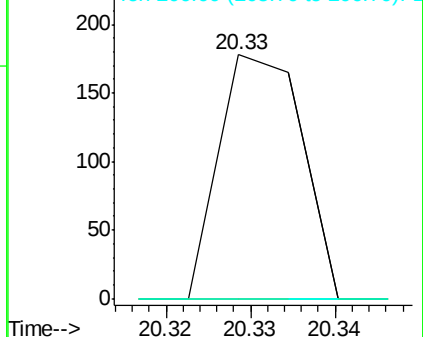
Tgt Ion:	149	Resp:	121
Ion	Ratio	Lower	Upper
149	100		
91	0.0	53.6	80.4#
206	0.0	19.1	28.7#

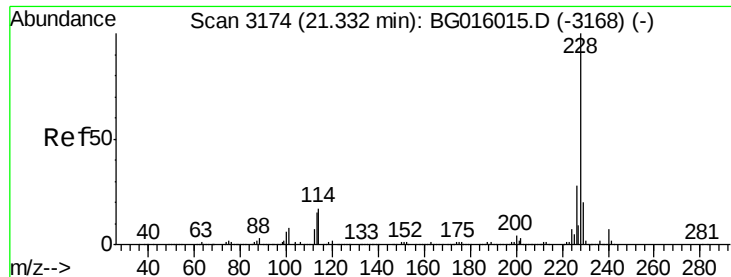


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): B

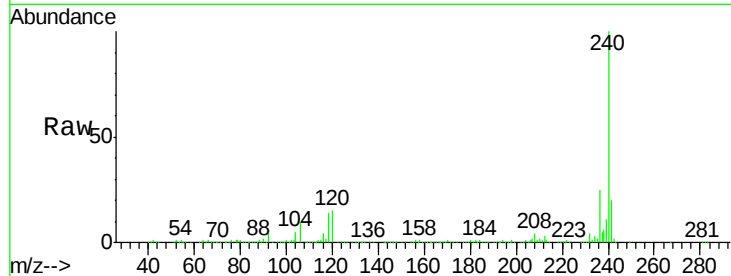
Ion 206.00 (205.70 to 206.70): E



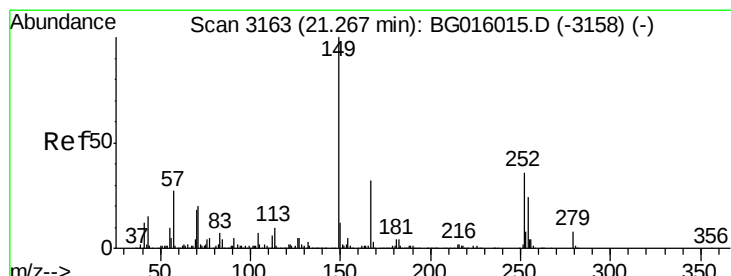
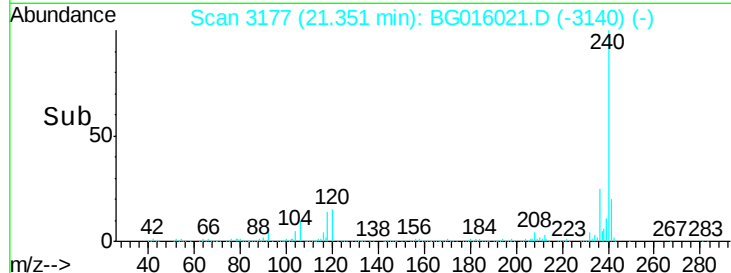
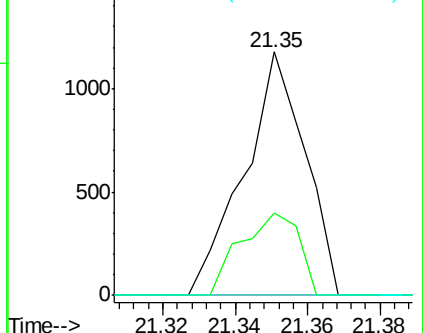


#80
Benzo(a)anthracene
Concen: 0.04 ng/ul
RT: 21.35 min Scan# 3177
Delta R.T. 0.02 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion: 228 Resp: 1371
Ion Ratio Lower Upper
228 100
229 33.8 16.4 24.6#
226 0.0 22.8 34.2#

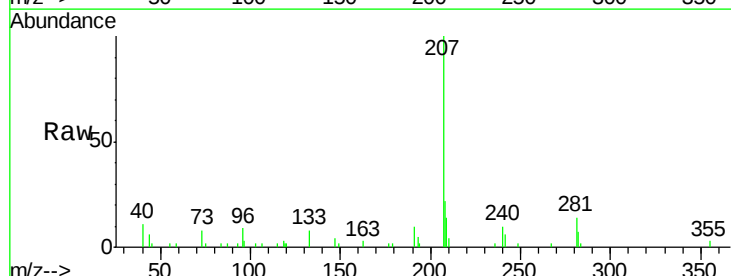


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E

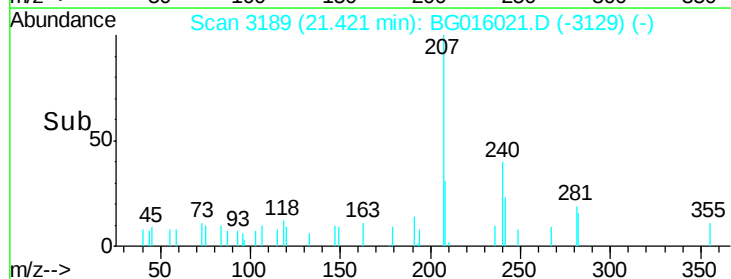
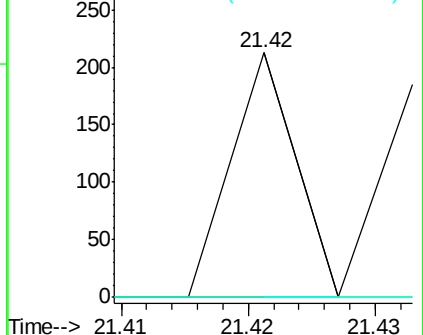


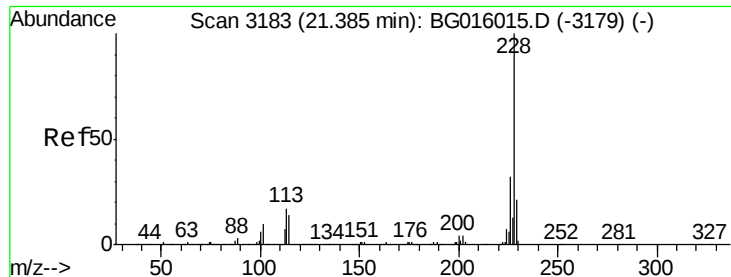
#81
Bis(2-ethylhexyl)phthalate
Concen: 0.00 ng/ul
RT: 21.42 min Scan# 3189
Delta R.T. 0.15 min
Lab File: BG016021.D
Acq: 20 Feb 2015 3:28

Tgt Ion: 149 Resp: 75
Ion Ratio Lower Upper
149 100
167 0.0 25.5 38.3#
279 0.0 6.0 9.0#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 0.05 ng/ul

RT: 21.35 min Scan# 3177

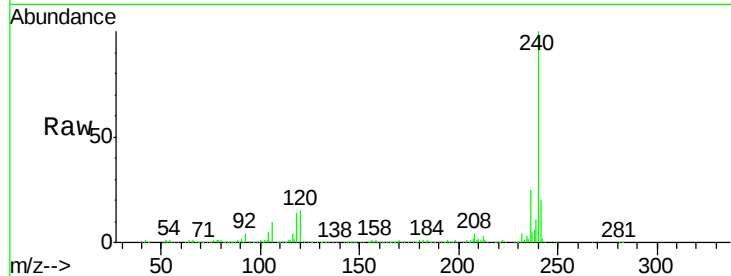
Delta R.T. -0.03 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

Tgt Ion: 228 Resp: 1371

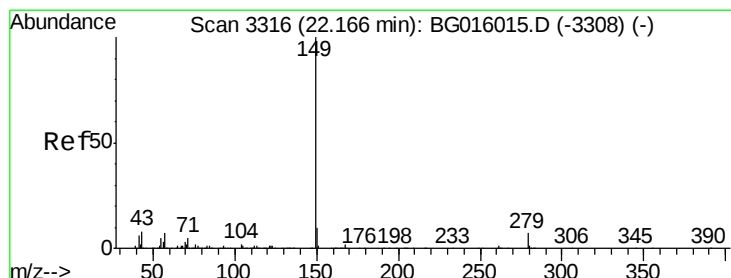
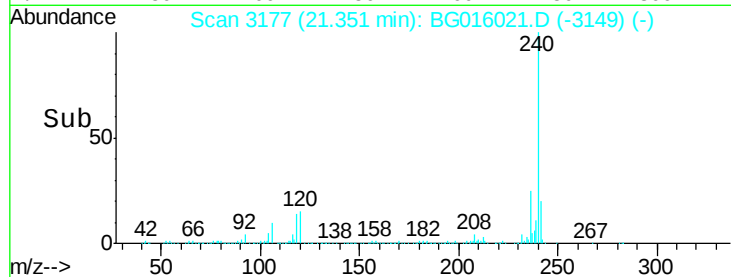
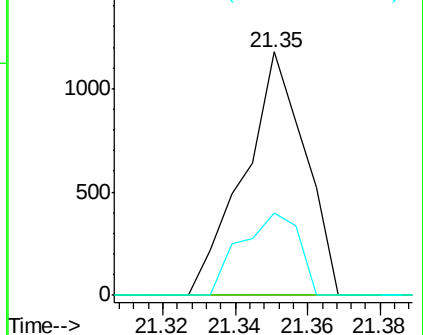
Ion	Ratio	Lower	Upper
228	100		
226	0.0	24.7	37.1#
229	33.8	17.0	25.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Di-n-octyl phthalate

Concen: 0.01 ng/ul

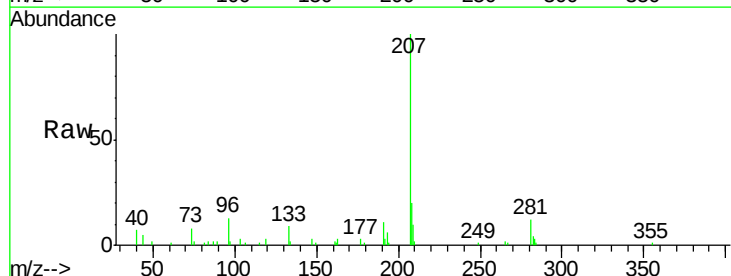
RT: 22.16 min Scan# 3314

Delta R.T. -0.01 min

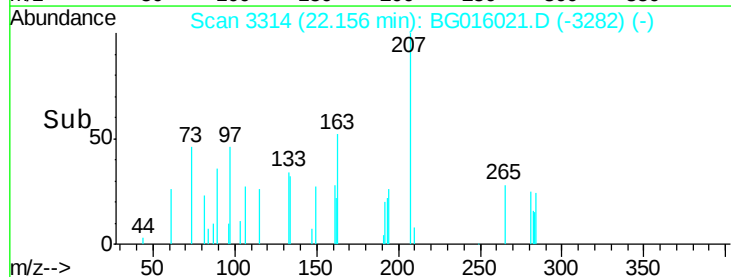
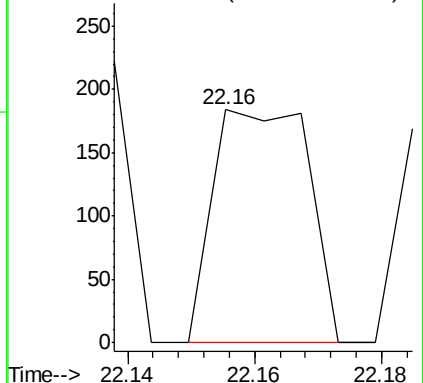
Lab File: BG016021.D

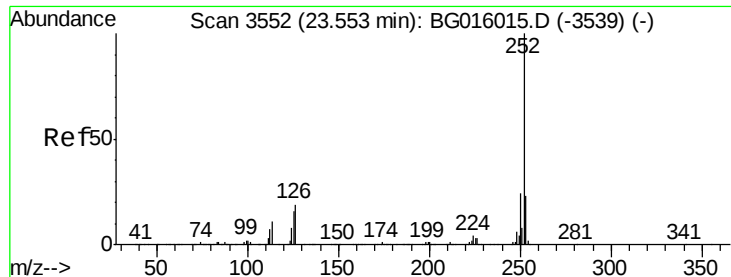
Acq: 20 Feb 2015 3:28

Tgt Ion: 149 Resp: 190



Abundance Ion 149.00 (148.70 to 149.70): E





#88

Benzo(a)pyrene

Concen: 0.10 ng/ul

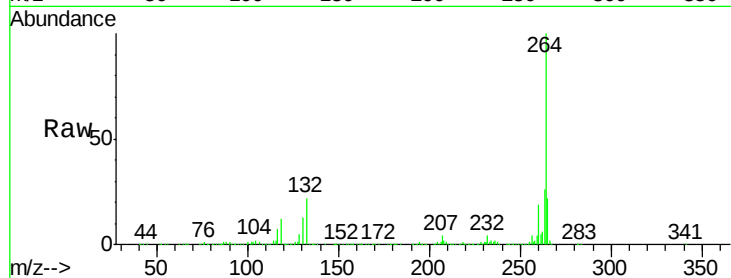
RT: 23.51 min Scan# 3545

Delta R.T. -0.04 min

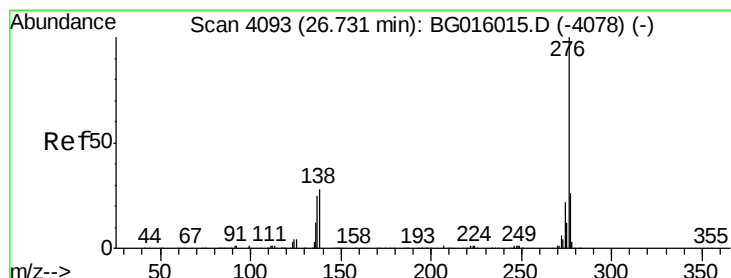
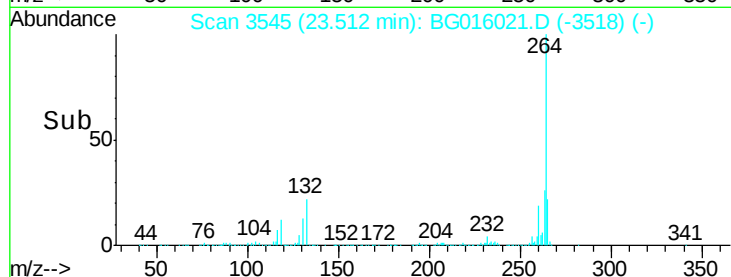
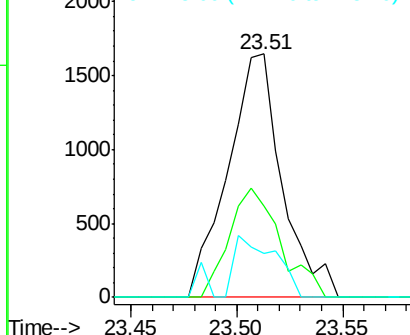
Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

Tgt Ion:	252	Resp:	2943
Ion	Ratio	Lower	Upper
252	100		
253	37.3	17.9	26.9#
125	18.2	13.2	19.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 0.01 ng/ul

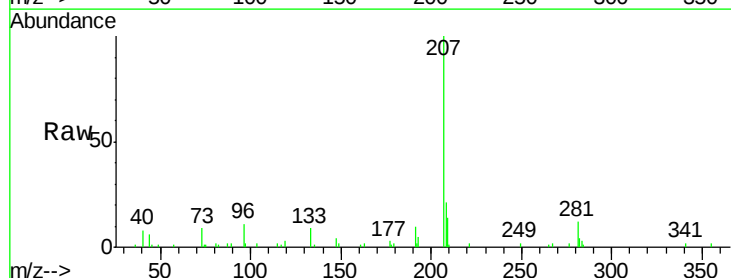
RT: 26.75 min Scan# 4096

Delta R.T. 0.02 min

Lab File: BG016021.D

Acq: 20 Feb 2015 3:28

Tgt Ion:	276	Resp:	277
Ion	Ratio	Lower	Upper
276	100		
138	0.0	23.0	34.4#
277	0.0	20.0	30.0#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

