

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021915\
 Data File : BG016030.D
 Acq On : 20 Feb 2015 9:49
 Operator : TP/IZ
 Sample : MDL-05-S-ML
 Misc : MDL-SOIL-3PPM-SOM0-ML
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Feb 20 10:35:43 2015

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM01.2-EPA-MA-BG021915.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri Feb 20 05:38:39 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	92896	20.00	ng/ul	0.00
16) Naphthalene-d8	10.60	136	415059	20.00	ng/ul	0.00
33) Acenaphthene-d10	14.44	164	250974	20.00	ng/ul	0.00
59) Phenanthrene-d10	17.17	188	532899	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	555931	20.00	ng/ul	0.00
83) Perylene-d12	23.65	264	544947	20.00	ng/ul	0.00

System Monitoring Compounds

3) Phenol-d5	6.97	99	228137	25.81	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	7.15	67	143389	27.47	ng/ul	0.00
7) 2-Chlorophenol-d4	7.34	132	175897	26.90	ng/ul	0.00
11) 4-Methylphenol-d8	8.50	113	172416	26.36	ng/ul	0.00
17) Nitrobenzene-d5	8.96	128	87332	29.77	ng/ul	0.00
20) 2-Nitrophenol-d4	9.68	143	79071	29.22	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	10.21	165	148617	25.32	ng/ul	0.00
27) 4-Chloroaniline-d4	10.73	131	269450	41.67	ng/ul	0.00
41) Dimethylphthalate-d6	13.84	166	500037	29.80	ng/ul	0.00
44) Acenaphthylene-d8	14.13	160	654375	27.56	ng/ul	0.00
49) 4-Nitrophenol-d4	14.62	143	68702	20.36	ng/ul	0.00
55) Fluorene-d10	15.42	176	470870	27.92	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	15.53	200	29293	14.26	ng/ul	0.00
68) Anthracene-d10	17.27	188	715877	28.32	ng/ul	0.00
76) Pyrene-d10	19.56	212	768914	29.45	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.51	264	701937	28.41	ng/ul	0.00

Target Compounds

						Qvalue
2) Benzaldehyde	6.96	77	80	0.01	ng/ul#	1
6) Bis(2-Chloroethyl)ether	7.23	93	788	0.11	ng/ul#	81
10) 2,2'-oxybis(1-Chloropropan	8.51	45	1052	0.11	ng/ul#	71
13) N-Nitroso-di-n-propylamine	8.51	70	4067	0.73	ng/ul#	1
18) Nitrobenzene	8.97	77	318	0.05	ng/ul#	36
19) Isophorone	9.68	82	4935	0.33	ng/ul#	64
26) Naphthalene	10.71	128	53	0.00	ng/ul#	69
34) 1,2,4,5-Tetrachlorobenzene	12.63	216	136	0.02	ng/ul#	25
42) Dimethylphthalate	13.85	163	286	0.02	ng/ul#	1
50) 4-Nitrophenol	14.75	109	1028	0.53	ng/ul#	1
56) Fluorene	15.43	166	1107	0.06	ng/ul#	5
58) 4-Nitroaniline	15.42	138	158	0.03	ng/ul#	1
67) Phenanthrene	17.17	178	215	0.01	ng/ul#	1
69) Anthracene	17.30	178	128	0.00	ng/ul#	59
70) 1,2,3,4-Tetrachlorobenzene	13.23	216	13598	2.01	ng/uL	96
71) Pentachlorobenzene	14.75	250	27005	4.07	ng/uL	99
73) Di-n-butylphthalate	18.14	149	124	0.00	ng/ul#	78
77) Pyrene	19.56	202	1179	0.03	ng/ul#	1
80) Benzo(a)anthracene	21.34	228	1478	0.05	ng/ul#	45
81) Bis(2-ethylhexyl)phthalate	21.30	149	75	0.00	ng/ul#	50
82) Chrysene	21.34	228	1478	0.05	ng/ul#	45
84) Di-n-octyl phthalate	22.16	149	216	0.01	ng/ul	100
88) Benzo(a)pyrene	23.51	252	2513	0.08	ng/ul#	80
89) Indeno(1,2,3-cd)pyrene	26.01	276	67	0.00	ng/ul#	17

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Misc : MDL-SOIL-3PPM-SOM0-ML
ALS Vial : 30 Sample Multiplier: 1

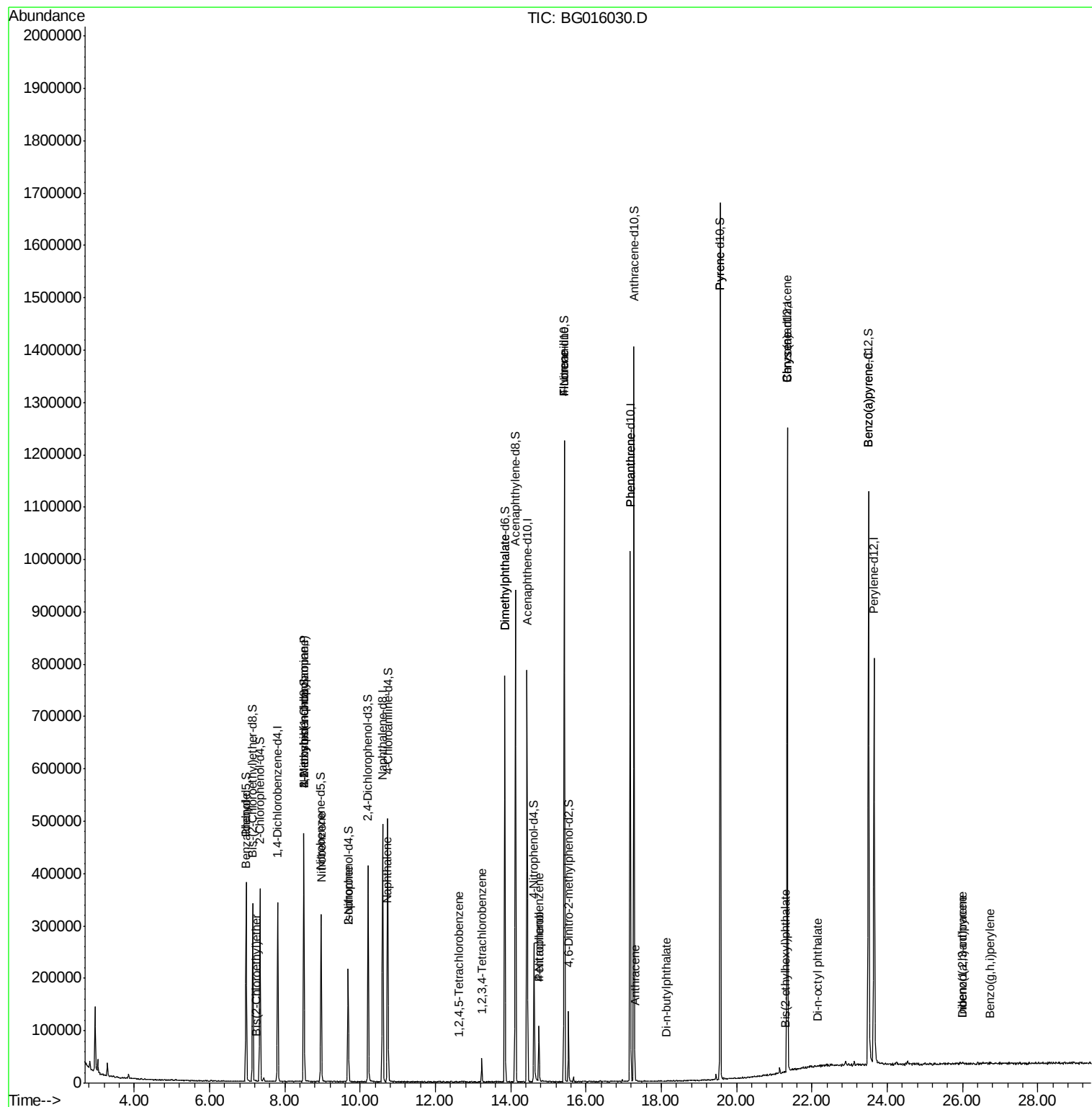
Quant Time: Feb 20 10:35:43 2015
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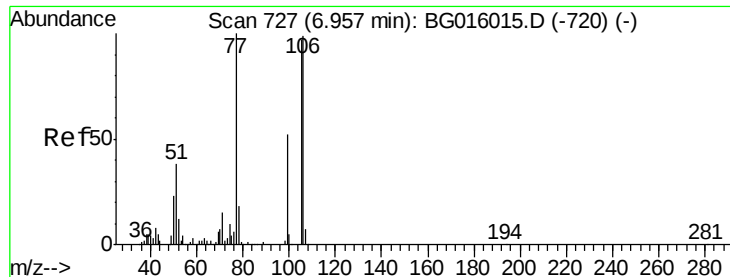
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	26.00	278	127	0.00	ng/ul#	53
91) Benzo(g,h,i)perylene	26.73	276	282	0.01	ng/ul#	48

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

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Response via : Initial Calibration





#2

Benzaldehyde

Concen: 0.01 ng/ul

RT: 6.96 min Scan# 727

Delta R.T. -0.00 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

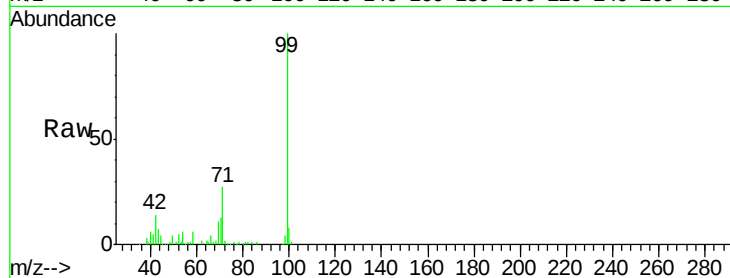
Tgt Ion: 77 Resp: 80

Ion Ratio Lower Upper

77 100

105 0.0 76.6 114.8#

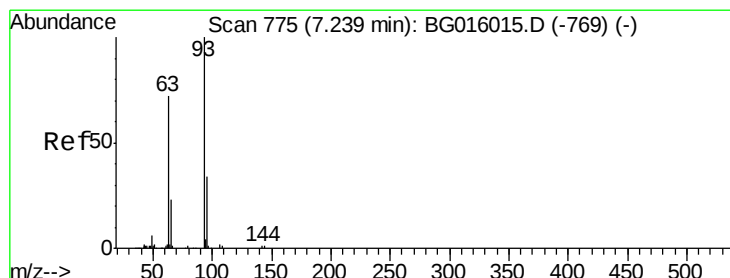
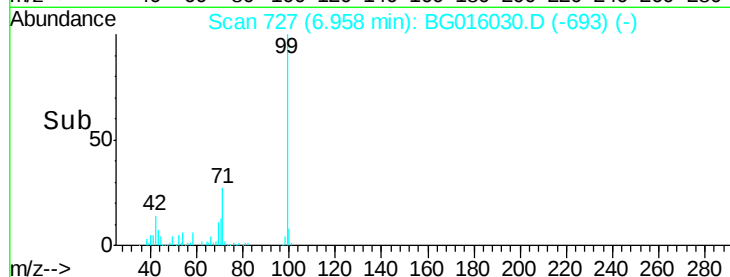
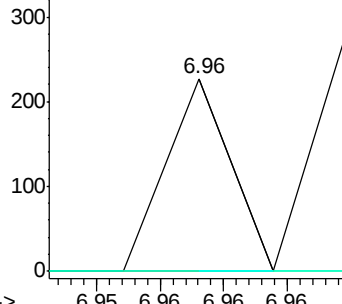
106 0.0 78.2 117.4#



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: 0.11 ng/ul

RT: 7.23 min Scan# 774

Delta R.T. -0.01 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

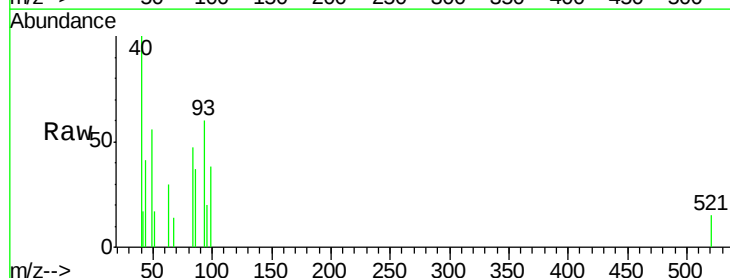
Tgt Ion: 93 Resp: 788

Ion Ratio Lower Upper

93 100

63 49.6 57.5 86.3#

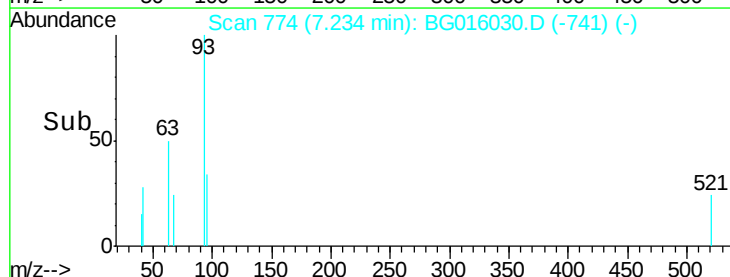
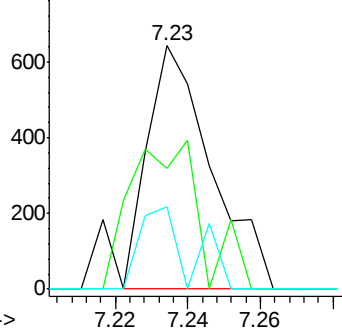
95 33.7 25.8 38.6

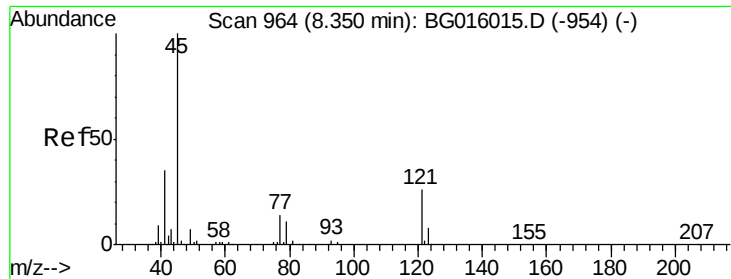


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

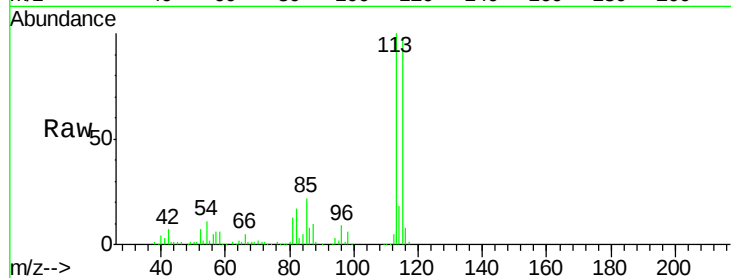
Ion 95.00 (94.70 to 95.70): BGC



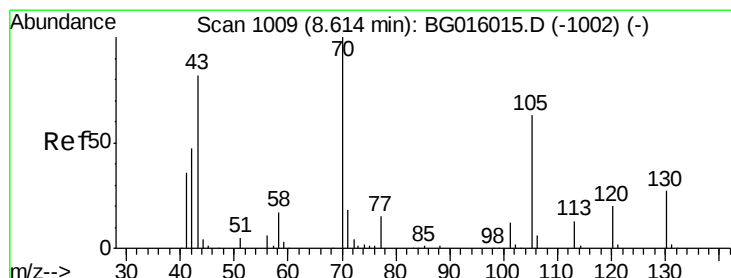
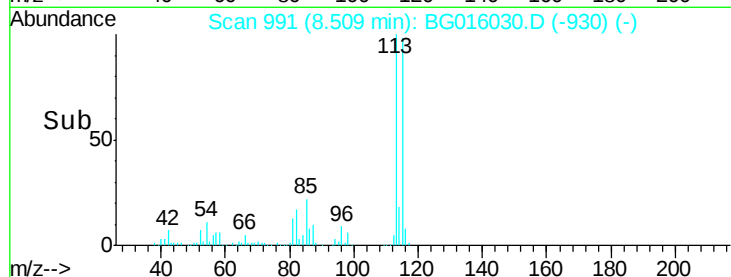
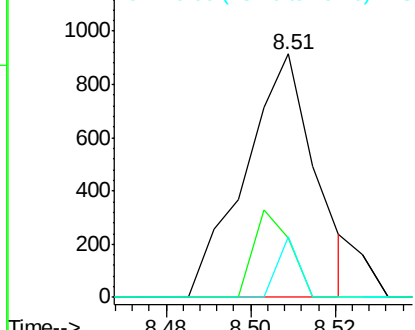


#10
 2,2'-oxybis(1-Chloropropane)
 Concen: 0.11 ng/ul
 RT: 8.51 min Scan# 991
 Delta R.T. 0.16 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

Tgt Ion	Ratio	Lower	Upper
45	100		
77	24.3	11.4	17.2#
79	24.9	9.0	13.6#

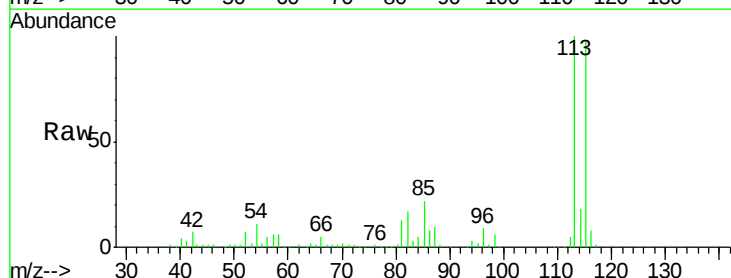


Abundance Ion 45.00 (44.70 to 45.70): BGC
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 79.00 (78.70 to 79.70): BGC

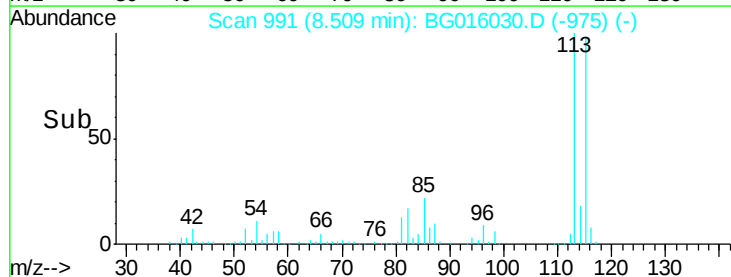
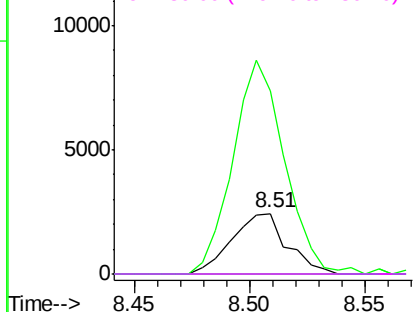


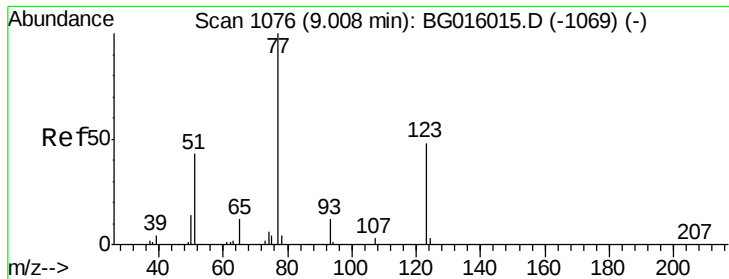
#13
 N-Nitroso-di-n-propylamine
 Concen: 0.73 ng/ul
 RT: 8.51 min Scan# 991
 Delta R.T. -0.11 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

Tgt Ion	Ratio	Lower	Upper
70	100		
42	303.3	37.8	56.6#
101	0.0	9.3	13.9#
130	0.0	22.2	33.2#



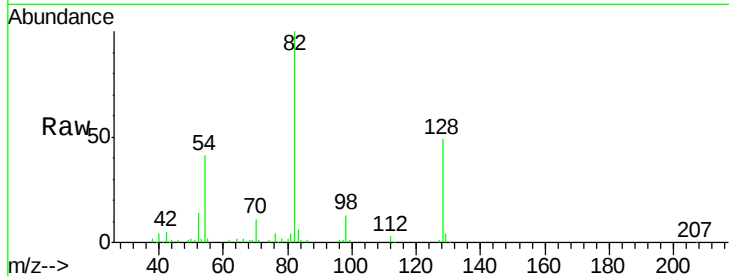
Abundance Ion 70.00 (69.70 to 70.70): BGC
 Ion 42.00 (41.70 to 42.70): BGC
 Ion 101.00 (100.70 to 101.70): BGC
 Ion 130.00 (129.70 to 130.70): BGC



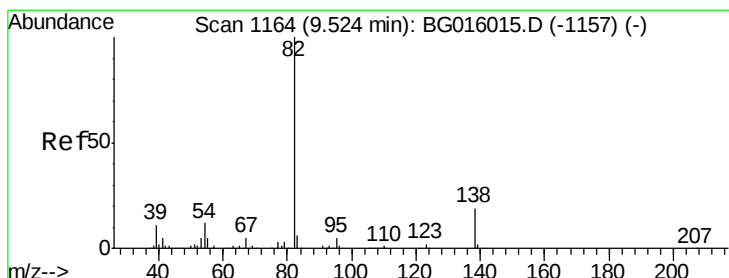
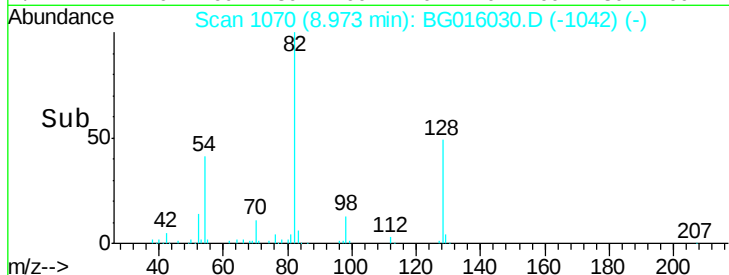
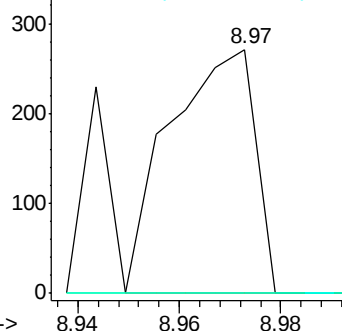


#18
Nitrobenzene
Concen: 0.05 ng/ul
RT: 8.97 min Scan# 1070
Delta R.T. -0.04 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

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

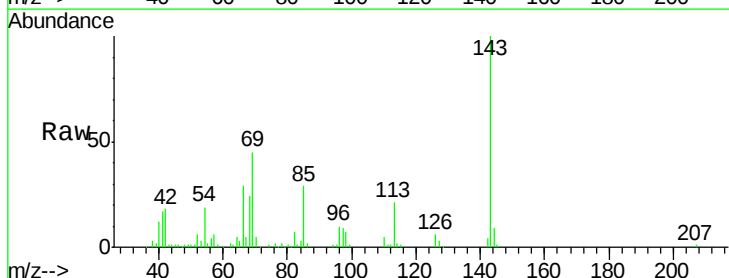


Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): BGC
Ion 65.00 (64.70 to 65.70): BGC

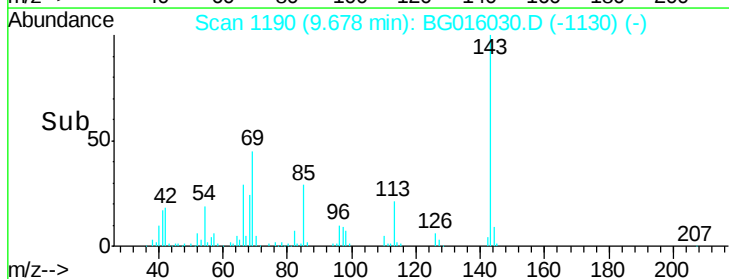
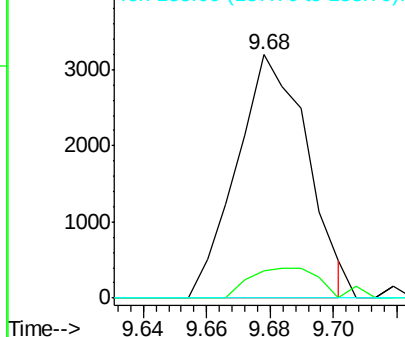


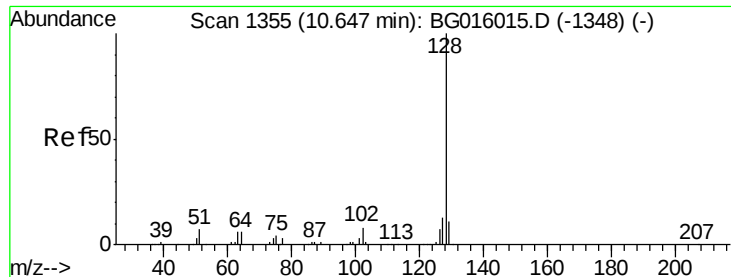
#19
Isophorone
Concen: 0.33 ng/ul
RT: 9.68 min Scan# 1190
Delta R.T. 0.15 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

Tgt Ion	Ratio	Lower	Upper
82	100		
95	11.0	4.6	6.8#
138	0.0	15.4	23.2#



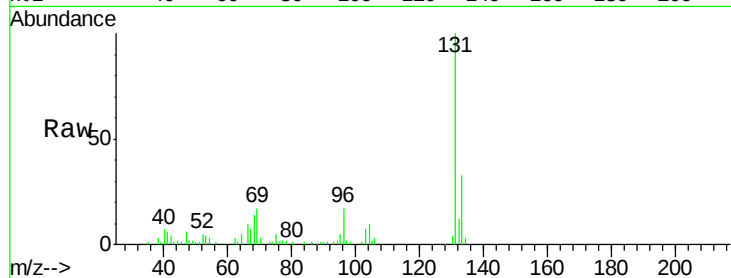
Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 95.00 (94.70 to 95.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



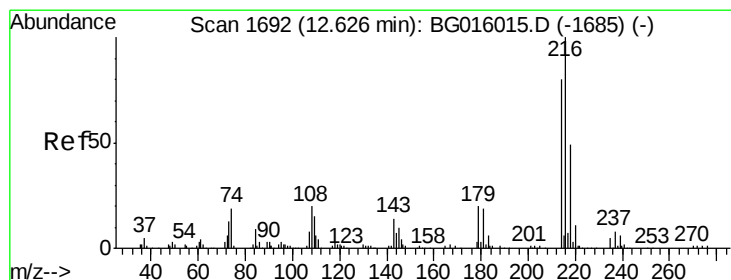
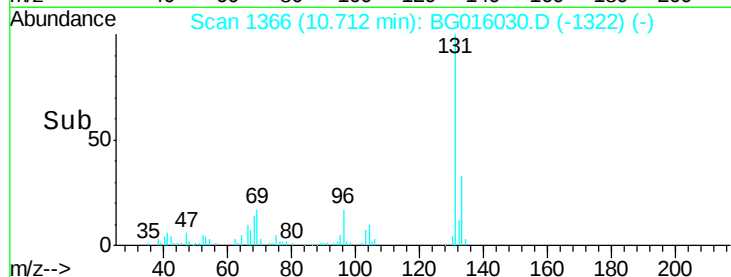
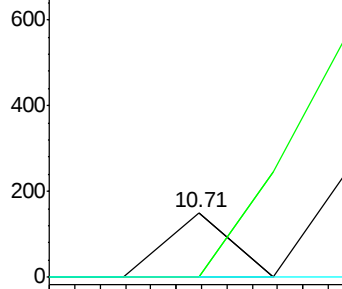


#26
Naphthalene
Concen: 0.00 ng/ul
RT: 10.71 min Scan# 1366
Delta R.T. 0.06 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

Tgt Ion:128 Resp: 53
Ion Ratio Lower Upper
128 100
129 0.0 8.7 13.1#
127 0.0 10.4 15.6#

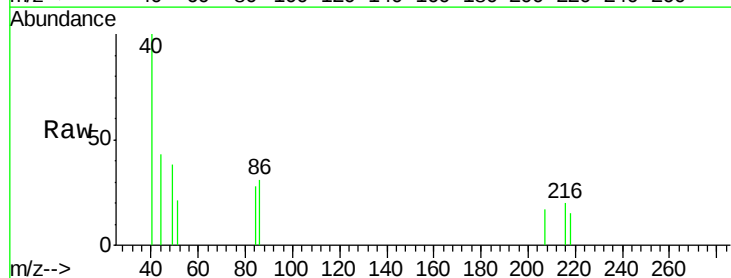


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

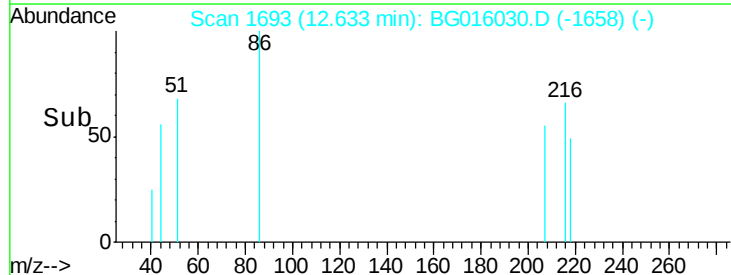
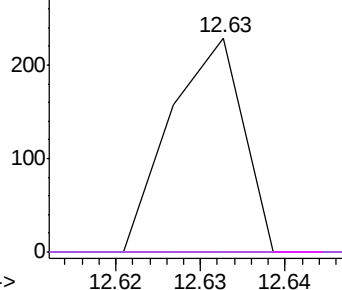


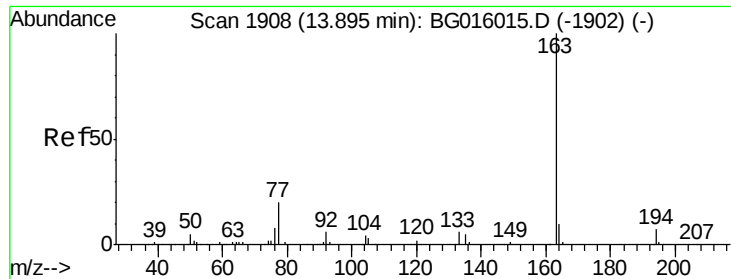
#34
1,2,4,5-Tetrachlorobenzene
Concen: 0.02 ng/ul
RT: 12.63 min Scan# 1693
Delta R.T. 0.01 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

Tgt Ion:216 Resp: 136
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#



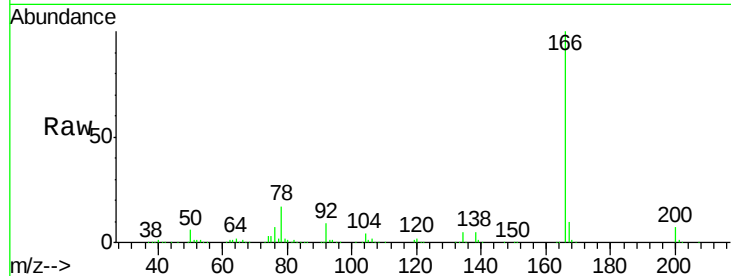
Abundance Ion 216.00 (215.70 to 216.70): E
Ion 214.00 (213.70 to 214.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 108.00 (107.70 to 108.70): E



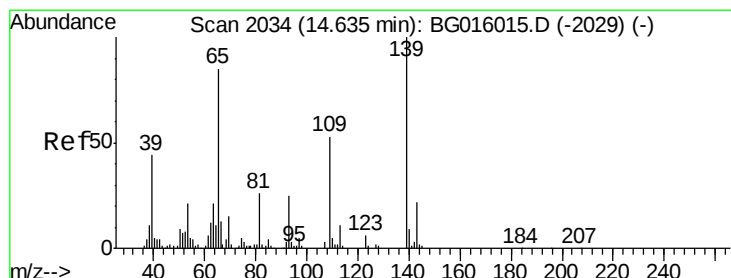
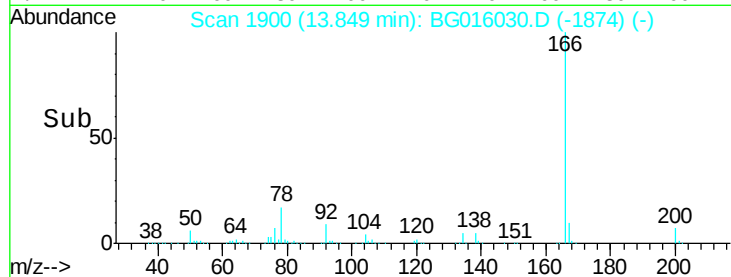
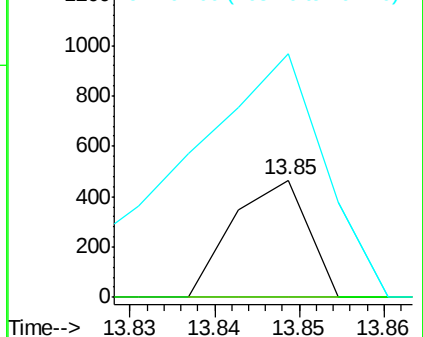


#42
Dimethylphthalate
Concen: 0.02 ng/ul
RT: 13.85 min Scan# 1900
Delta R.T. -0.05 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

Tgt Ion:163 Resp: 286
Ion Ratio Lower Upper
163 100
194 0.0 5.3 7.9#
164 207.5 8.5 12.7#

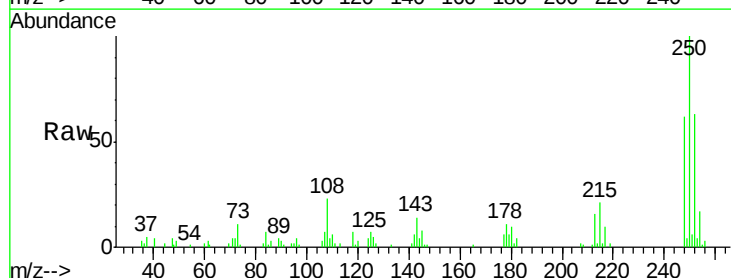


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

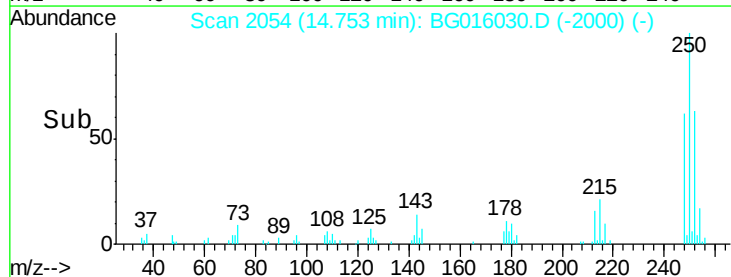
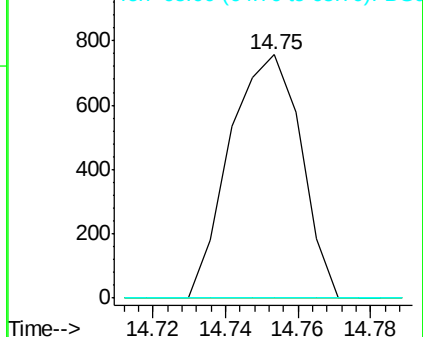


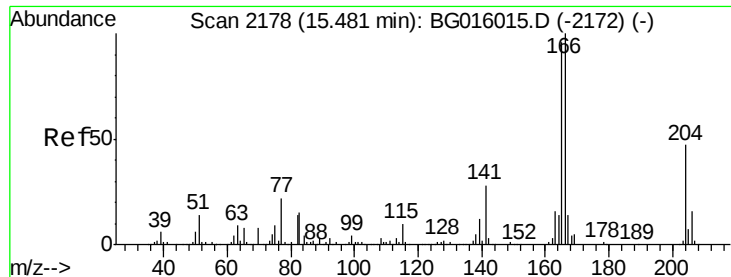
#50
4-Nitrophenol
Concen: 0.53 ng/ul
RT: 14.75 min Scan# 2054
Delta R.T. 0.12 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

Tgt Ion:109 Resp: 1028
Ion Ratio Lower Upper
109 100
139 0.0 146.1 219.1#
65 0.0 123.5 185.3#



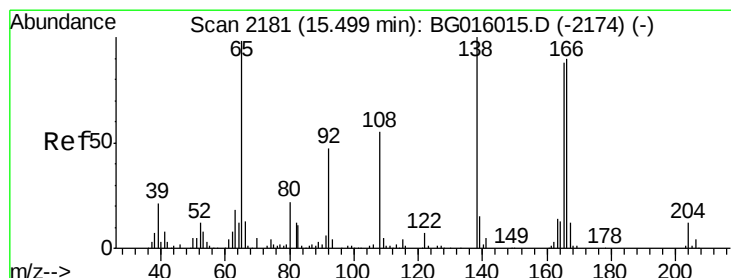
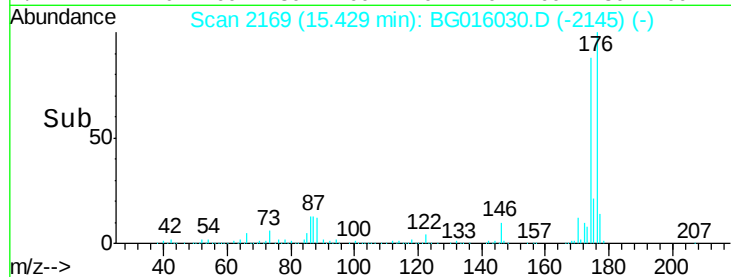
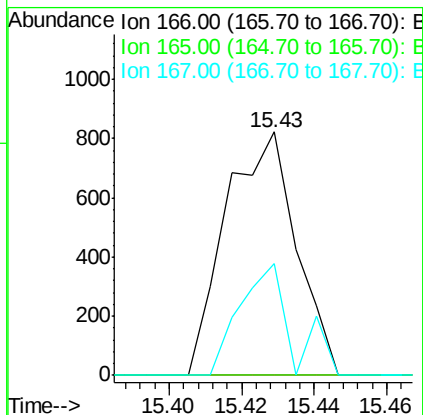
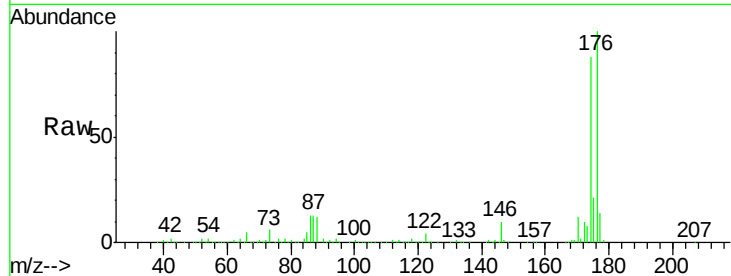
Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BG0





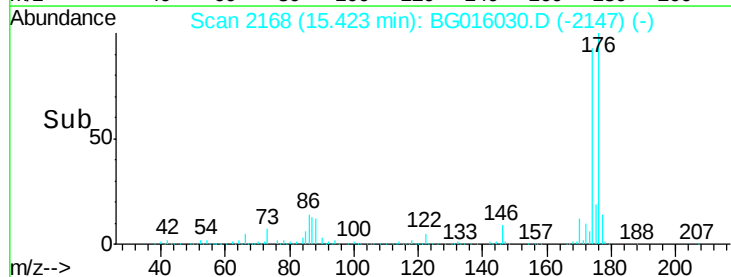
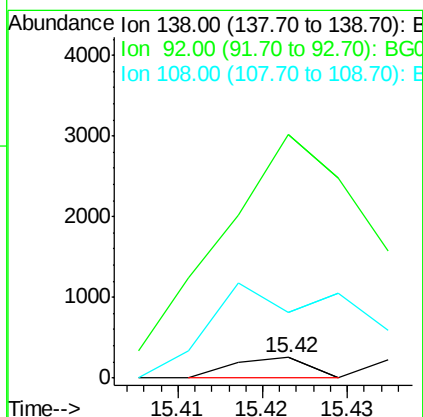
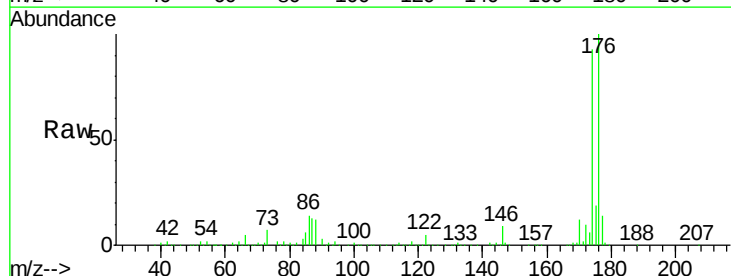
#56
Fluorene
 Concen: 0.06 ng/ul
 RT: 15.43 min Scan# 2169
 Delta R.T. -0.06 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

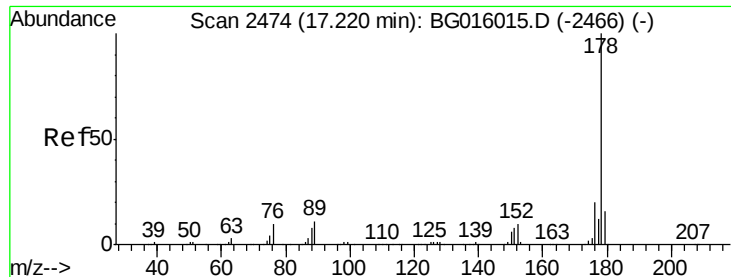
Tgt Ion: 166 Resp: 1107
 Ion Ratio Lower Upper
 166 100
 165 0.0 75.4 113.2#
 167 45.7 11.0 16.4#



#58
4-Nitroaniline
 Concen: 0.03 ng/ul
 RT: 15.42 min Scan# 2168
 Delta R.T. -0.08 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

Tgt Ion: 138 Resp: 158
 Ion Ratio Lower Upper
 138 100
 92 1197.6 38.1 57.1#
 108 322.6 46.4 69.6#





#67

Phenanthrene

Concen: 0.01 ng/ul

RT: 17.17 min Scan# 2466

Delta R.T. -0.05 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

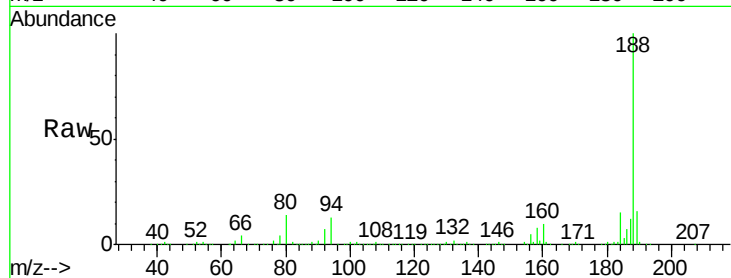
Tgt Ion:178 Resp: 215

Ion Ratio Lower Upper

178 100

179 98.3 12.8 19.2#

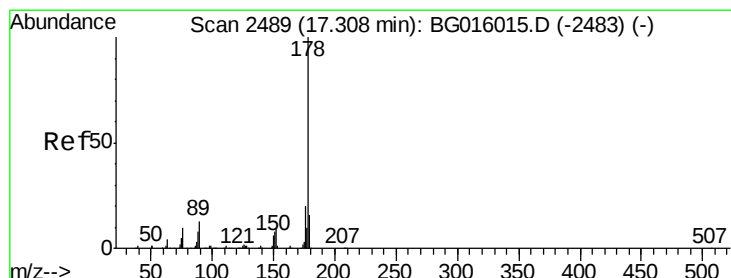
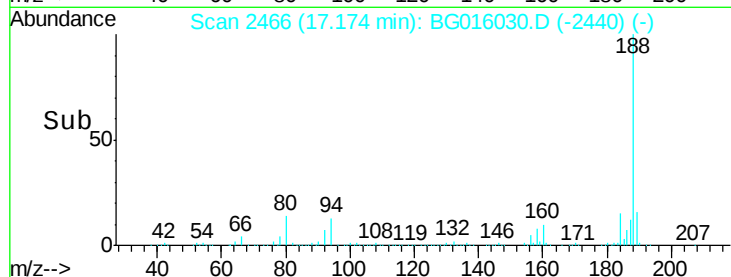
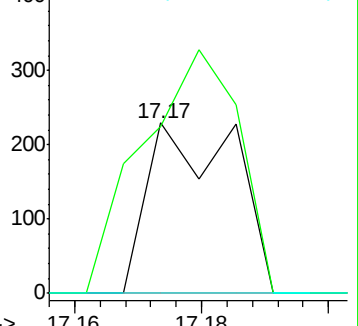
176 0.0 16.5 24.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#69

Anthracene

Concen: 0.00 ng/ul

RT: 17.30 min Scan# 2488

Delta R.T. -0.01 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

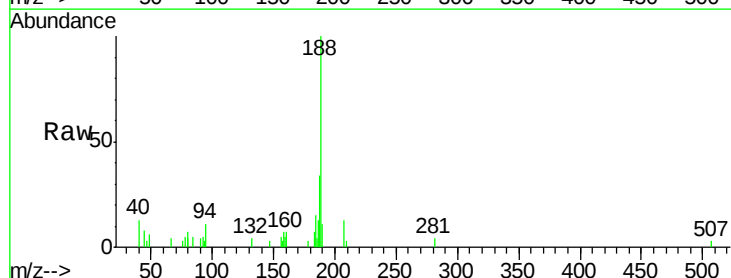
Tgt Ion:178 Resp: 128

Ion Ratio Lower Upper

178 100

179 0.0 12.9 19.3#

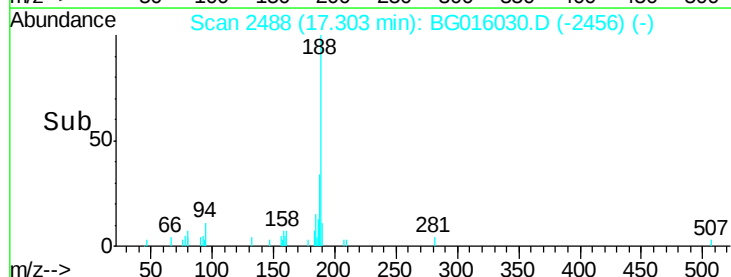
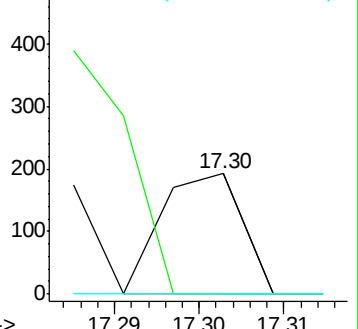
176 0.0 15.7 23.5#

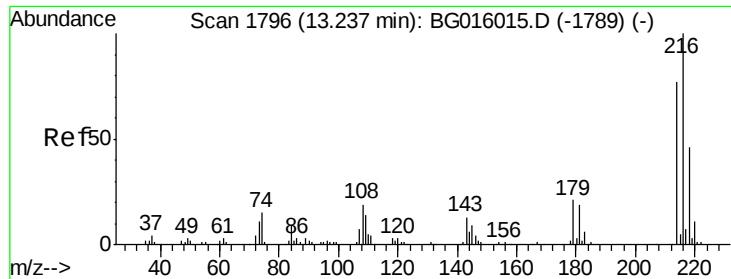


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

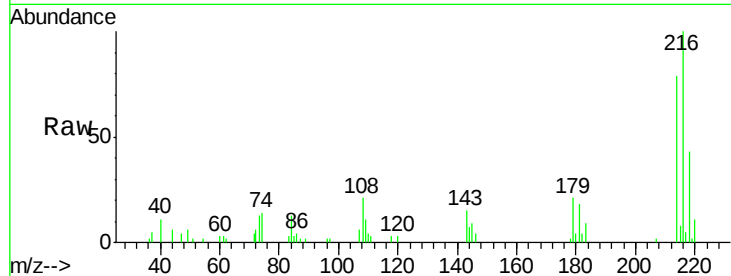
Ion 176.00 (175.70 to 176.70): E



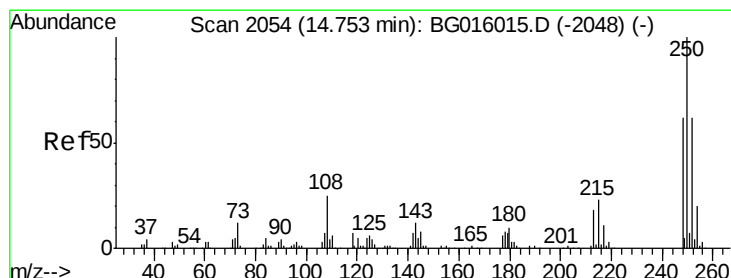
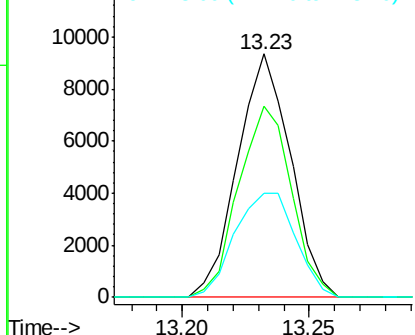
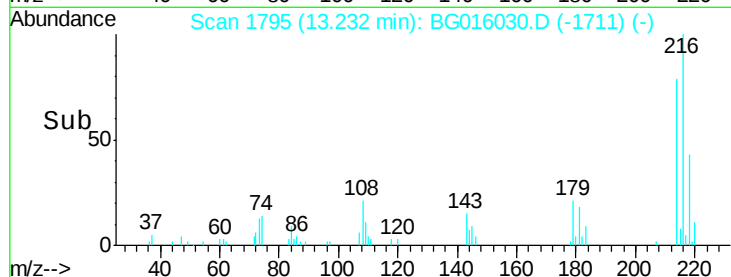


#70
 1,2,3,4-Tetrachlorobenzene
 Concen: 2.01 ng/uL
 RT: 13.23 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

Tgt Ion	Ratio	Lower	Upper
216	100		
214	78.6	64.5	96.7
218	42.5	37.9	56.9

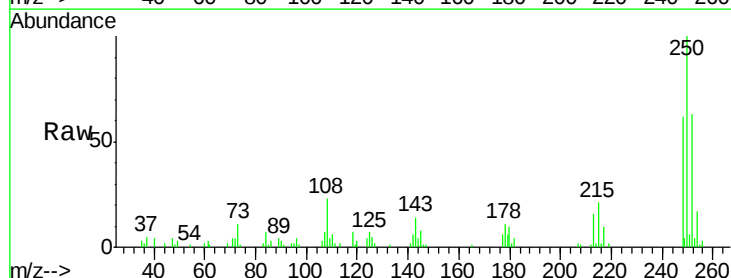


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 218.00 (217.70 to 218.70): E

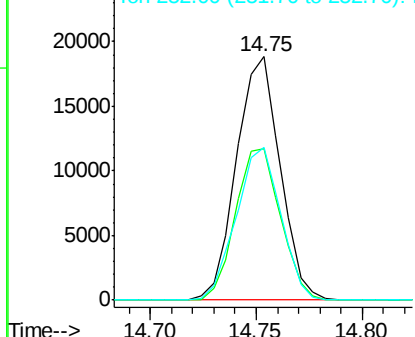
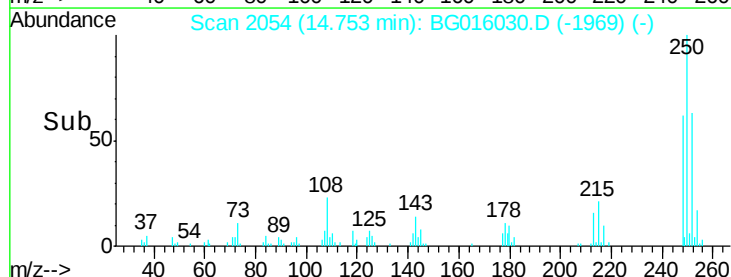


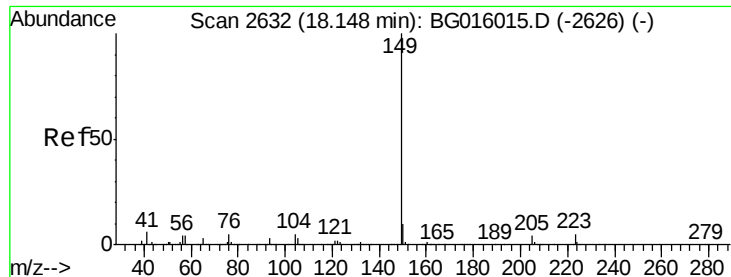
#71
 Pentachlorobenzene
 Concen: 4.07 ng/uL
 RT: 14.75 min Scan# 2054
 Delta R.T. -0.00 min
 Lab File: BG016030.D
 Acq: 20 Feb 2015 9:49

Tgt Ion	Ratio	Lower	Upper
250	100		
248	62.2	50.5	75.7
252	62.9	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: 0.00 ng/ul

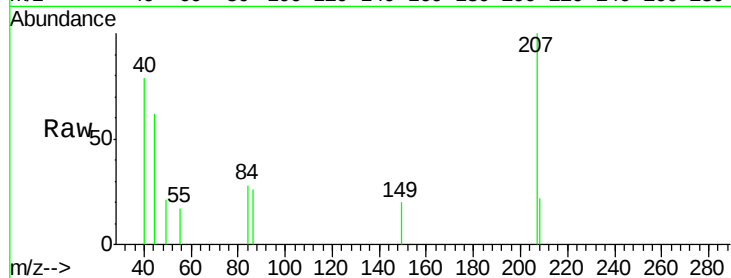
RT: 18.14 min Scan# 2631

Delta R.T. -0.01 min

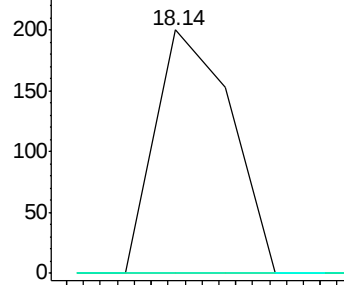
Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

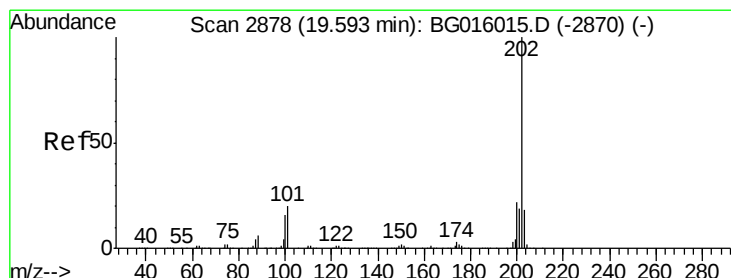
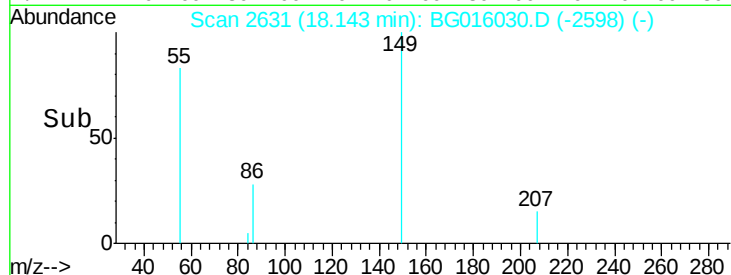
Tgt Ion:	149	Resp:	124
Ion	Ratio	Lower	Upper
149	100		
150	0.0	7.6	11.4#
104	0.0	3.7	5.5#



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



Time--> 18.13 18.14 18.15 18.16



#77

Pyrene

Concen: 0.03 ng/ul

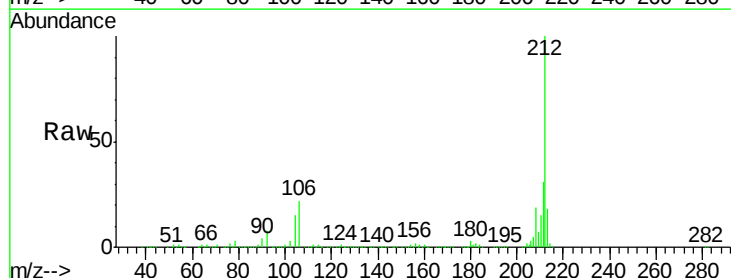
RT: 19.56 min Scan# 2873

Delta R.T. -0.03 min

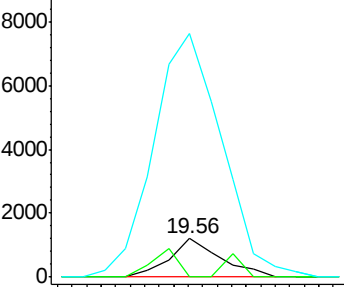
Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

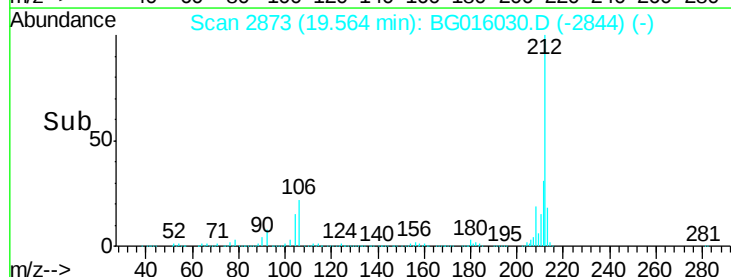
Tgt Ion:	202	Resp:	1179
Ion	Ratio	Lower	Upper
202	100		
101	0.0	15.8	23.8#
100	636.5	12.7	19.1#

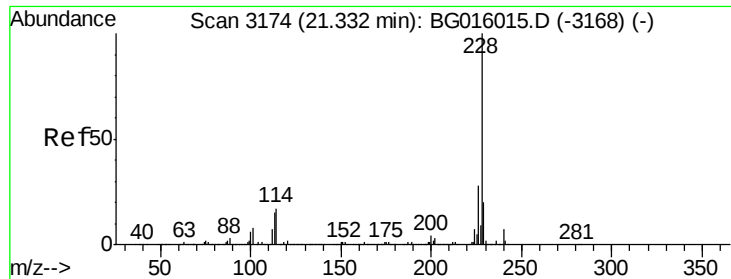


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



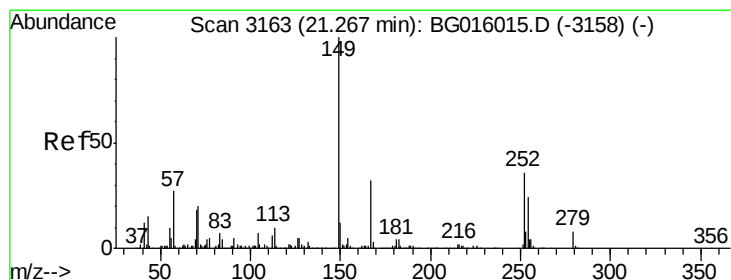
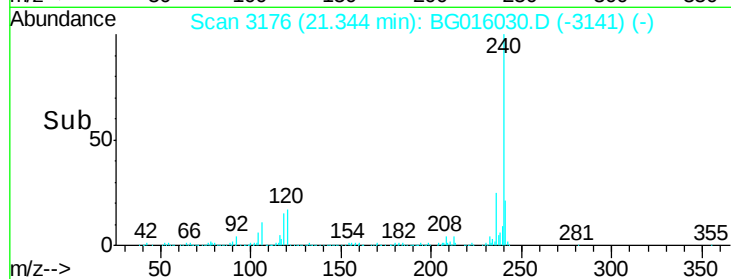
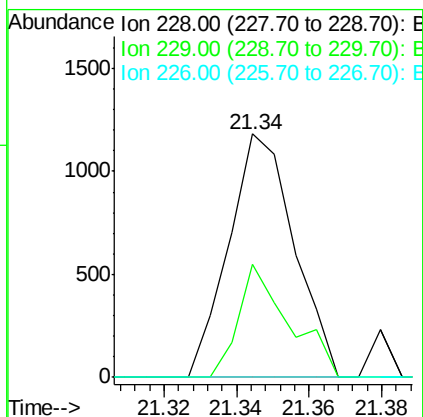
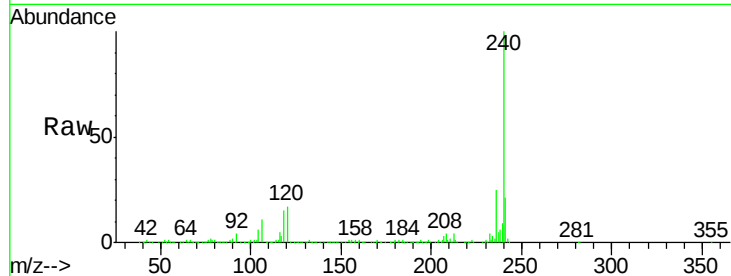
Time--> 19.54 19.56 19.58 19.60





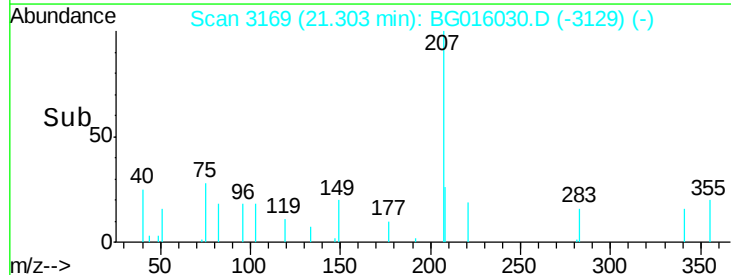
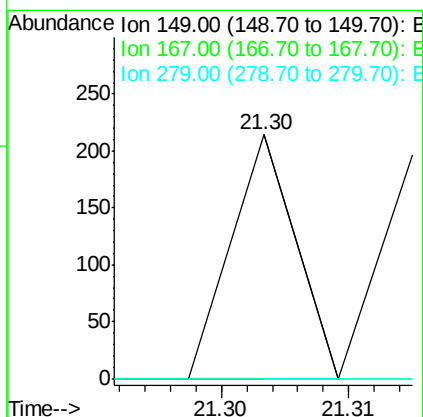
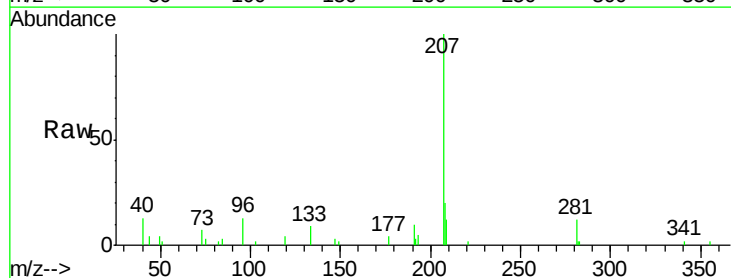
#80
Benzo(a)anthracene
Concen: 0.05 ng/ul
RT: 21.34 min Scan# 3176
Delta R.T. 0.01 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

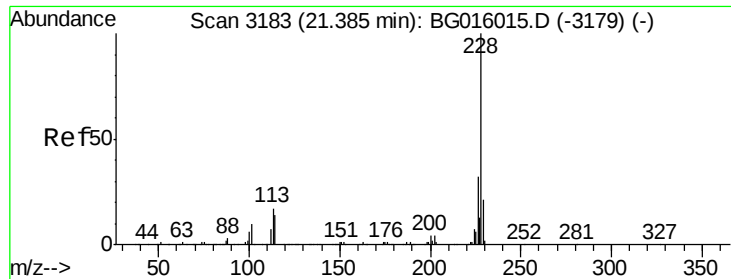
Tgt Ion: 228 Resp: 1478
Ion Ratio Lower Upper
228 100
229 46.3 16.4 24.6#
226 0.0 22.8 34.2#



#81
Bis(2-ethylhexyl)phthalate
Concen: 0.00 ng/ul
RT: 21.30 min Scan# 3169
Delta R.T. 0.04 min
Lab File: BG016030.D
Acq: 20 Feb 2015 9:49

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#





#82

Chrysene

Concen: 0.05 ng/ul

RT: 21.34 min Scan# 3176

Delta R.T. -0.04 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

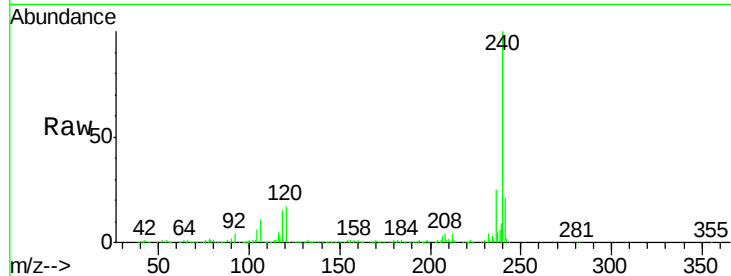
Tgt Ion: 228 Resp: 1478

Ion Ratio Lower Upper

228 100

226 0.0 24.7 37.1#

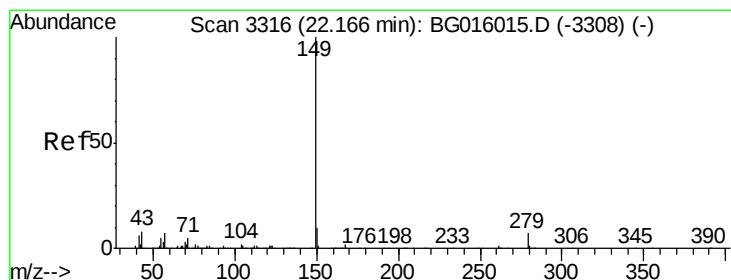
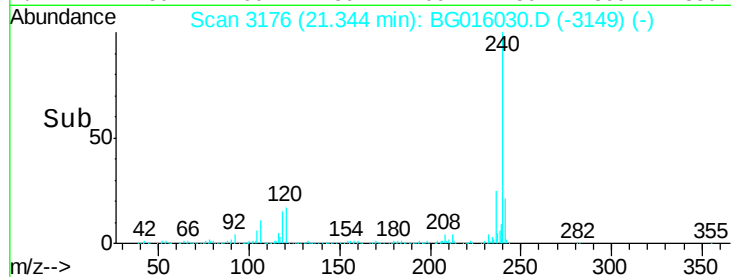
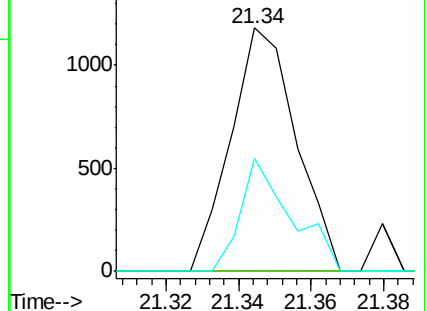
229 46.3 17.0 25.6#



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

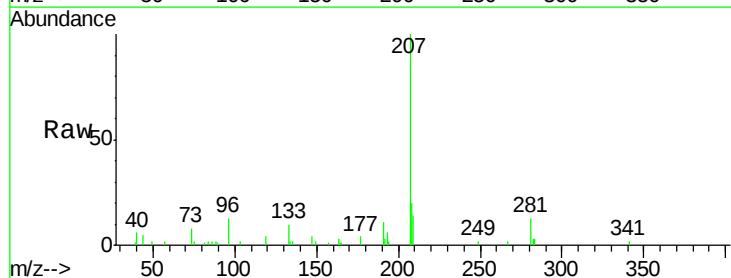
RT: 22.16 min Scan# 3314

Delta R.T. -0.01 min

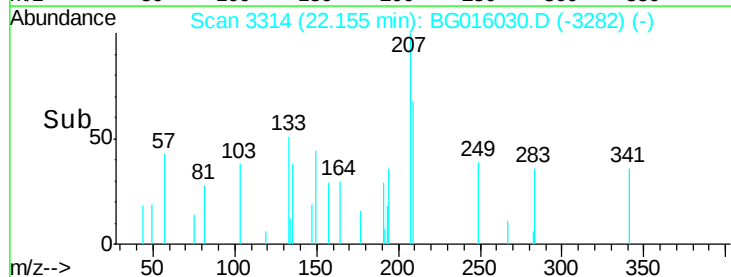
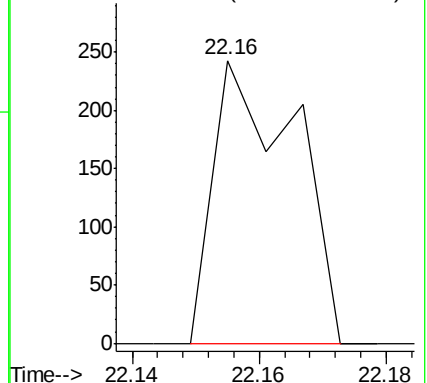
Lab File: BG016030.D

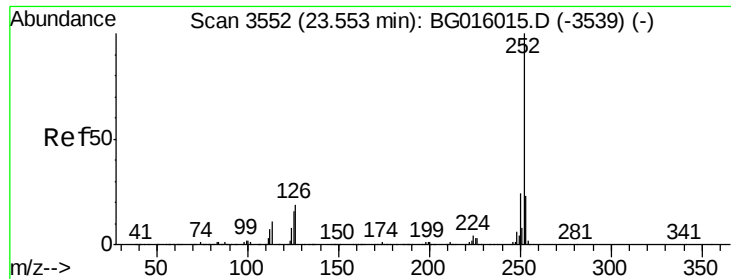
Acq: 20 Feb 2015 9:49

Tgt Ion: 149 Resp: 216



Abundance Ion 149.00 (148.70 to 149.70): E





#88

Benzo(a)pyrene

Concen: 0.08 ng/ul

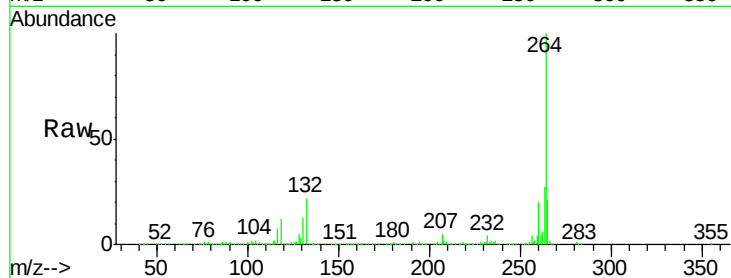
RT: 23.51 min Scan# 3545

Delta R.T. -0.04 min

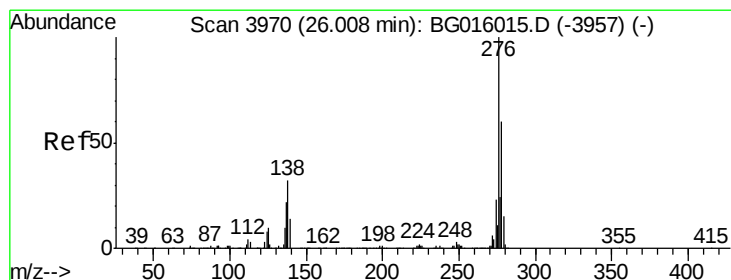
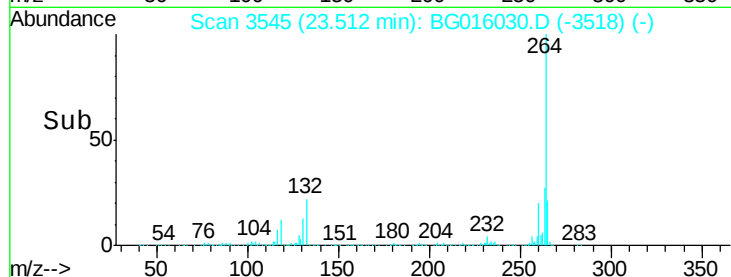
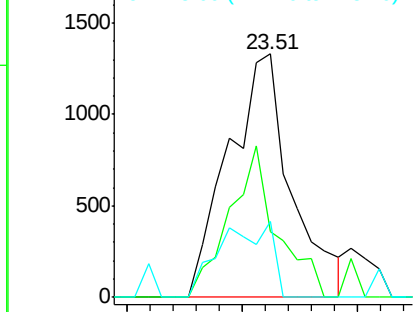
Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

Tgt Ion:	252	Resp:	2513
Ion Ratio	Lower	Upper	
252	100		
253	26.8	17.9	26.9
125	31.4	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



#89

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

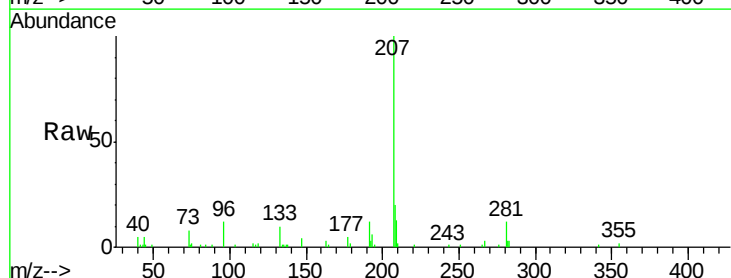
RT: 26.01 min Scan# 3971

Delta R.T. -0.00 min

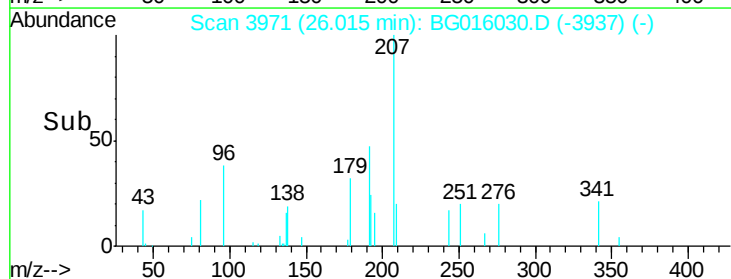
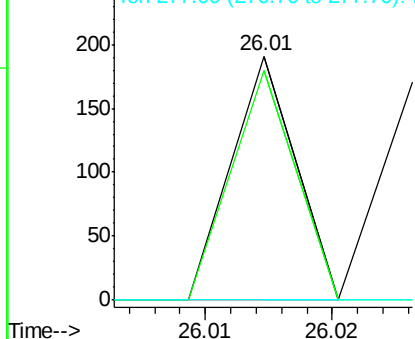
Lab File: BG016030.D

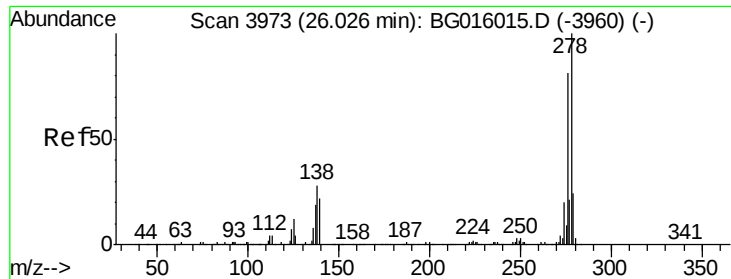
Acq: 20 Feb 2015 9:49

Tgt Ion:	276	Resp:	67
Ion Ratio	Lower	Upper	
276	100		
138	94.2	26.2	39.4#
277	0.0	21.0	31.6#



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





#90

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

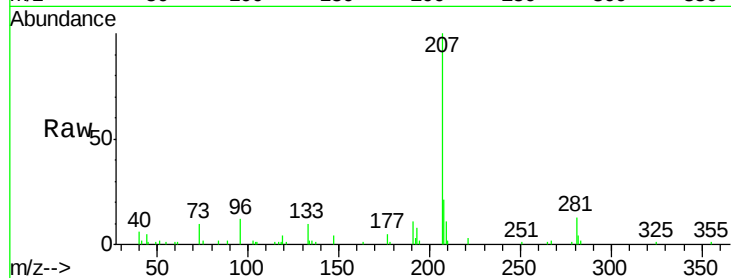
RT: 26.00 min Scan# 3969

Delta R.T. -0.02 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

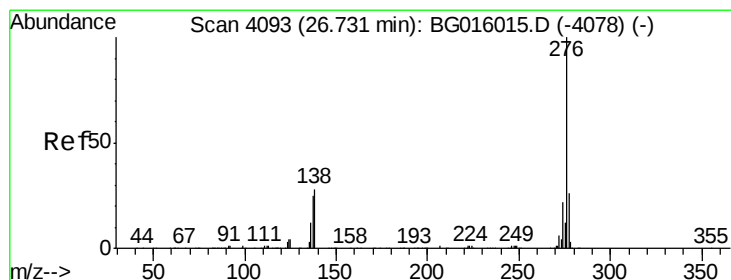
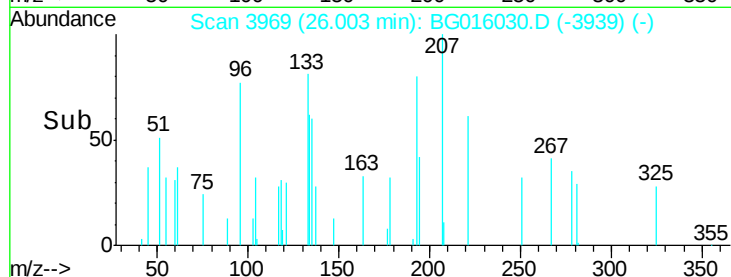
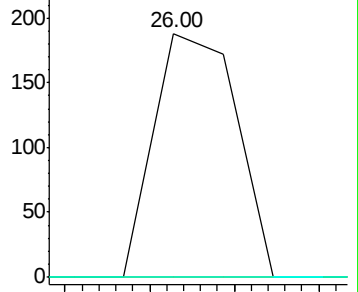
Tgt Ion:	278	Resp:	127
Ion	Ratio	Lower	Upper
278	100		
139	0.0	17.0	25.4#
279	0.0	19.3	28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 0.01 ng/ul

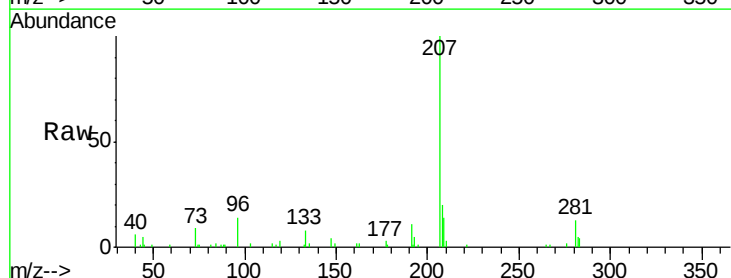
RT: 26.73 min Scan# 4093

Delta R.T. -0.00 min

Lab File: BG016030.D

Acq: 20 Feb 2015 9:49

Tgt Ion:	276	Resp:	282
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

