

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122217\
 Data File : BG031754.D
 Acq On : 23 Dec 2017 18:19
 Operator : SJ/JU
 Sample : I7037-02
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

Quant Time: Dec 25 04:49:02 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG122117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 22 11:08:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.83	152	47544	20.00	ng	-0.01
21) Naphthalene-d8	11.71	136	200607	20.00	ng	-0.01
38) Acenaphthene-d10	15.46	164	136148	20.00	ng	-0.01
63) Phenanthrene-d10	18.19	188	337414	20.00	ng	-0.01
75) Chrysene-d12	22.55	240	399516	20.00	ng	-0.02
86) Perylene-d12	26.34	264	428108	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	6.24	112	401756	153.91	ng	0.00
7) Phenol-d6	7.92	99	458828	135.39	ng	0.00
23) Nitrobenzene-d5	10.03	82	307191	115.63	ng	-0.01
41) 2,4,6-Tribromophenol	16.93	330	334048	160.80	ng	-0.01
44) 2-Fluorobiphenyl	14.09	172	1076475	99.24	ng	-0.01
78) Terphenyl-d14	20.73	244	1918698	109.72	ng	-0.01

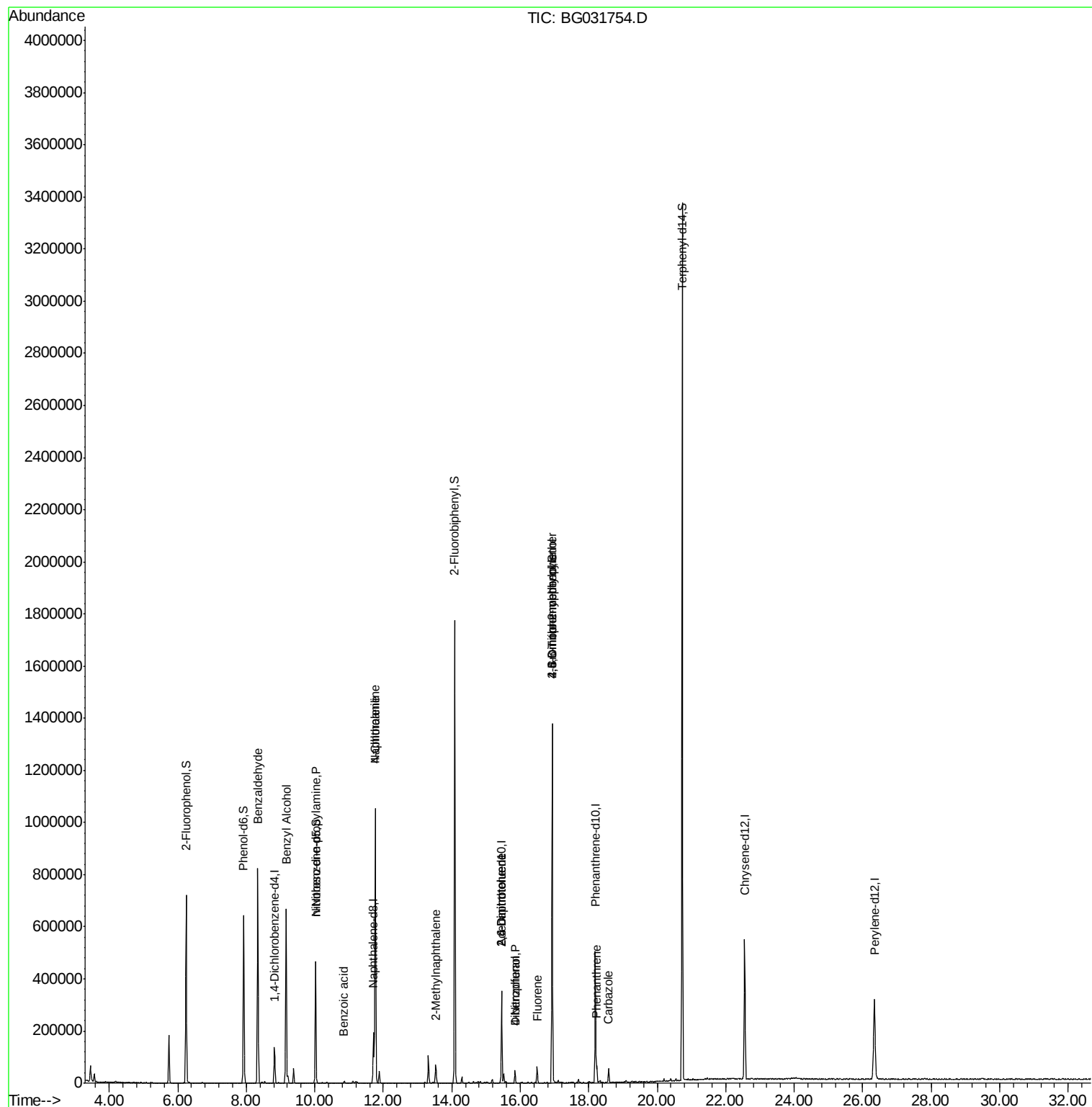
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	8.33	77	9837	4.820	ng	93
15) Benzyl Alcohol	9.16	79	5349	2.102	ng	# 53
19) n-Nitroso-di-n-propylamine	10.03	70	40019	17.290	ng	# 72
31) Naphthalene	11.77	128	1003521	99.121	ng	99
32) Benzoic acid	10.85	122	4329	8.503	ng	# 63
33) 4-Chloroaniline	11.77	127	145884	32.366	ng	# 33
37) 2-Methylnaphthalene	13.53	142	40147	4.892	ng	89
50) 2,6-Dinitrotoluene	15.46	165	17790	8.063	ng	# 21
54) Dibenzofuran	15.85	168	36679	2.575	ng	94
55) 4-Nitrophenol	15.85	139	11997	6.847	ng	# 1
56) 2,4-Dinitrotoluene	15.46	165	17790	6.270	ng	# 19
57) Fluorene	16.50	166	33273	2.875	ng	90
64) 4,6-Dinitro-2-methylphenol	16.93	198	599	8.608	ng	# 1
66) 4-Bromophenyl-phenylether	16.93	248	26718	5.476	ng	# 1
70) Phenanthrene	18.23	178	54929	2.877	ng	99
72) Carbazole	18.58	167	41704	2.446	ng	99

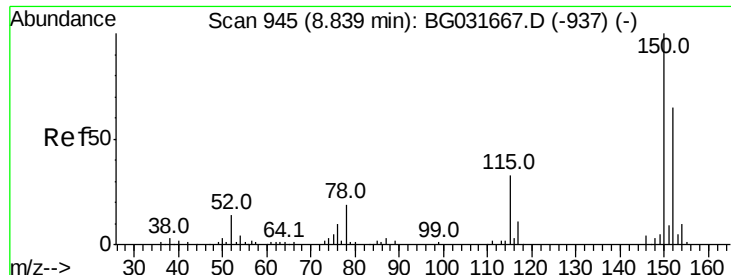
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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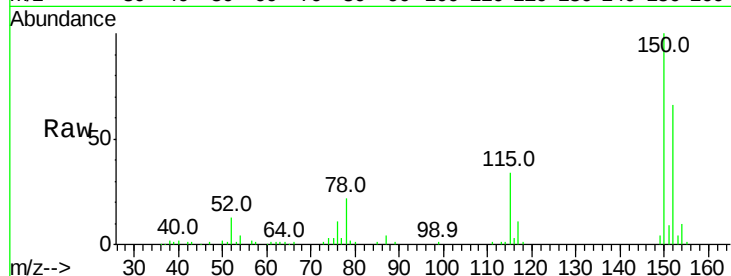


#1

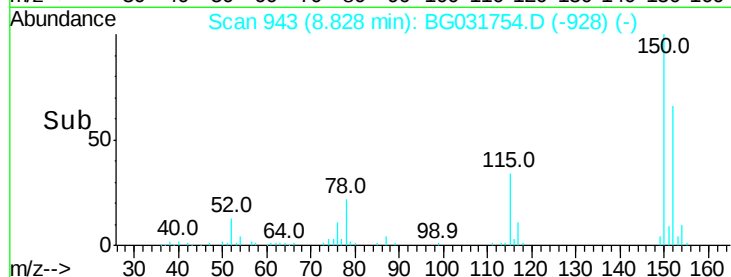
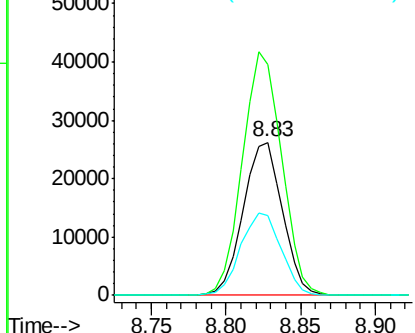
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.83 min Scan# 943
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

Tot Ion:152 Resp: 47544
Ion Ratio Lower Upper
152 100
150 151.2 126.6 189.8
115 52.2 53.0 79.4#



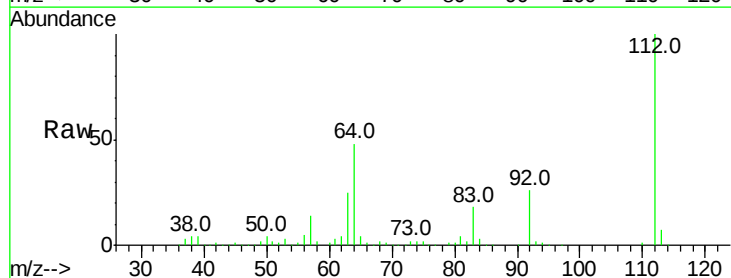
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



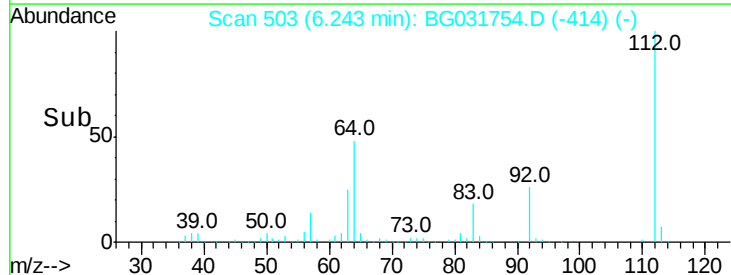
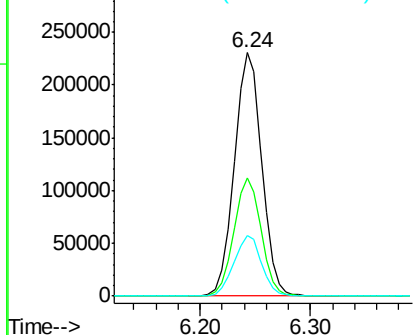
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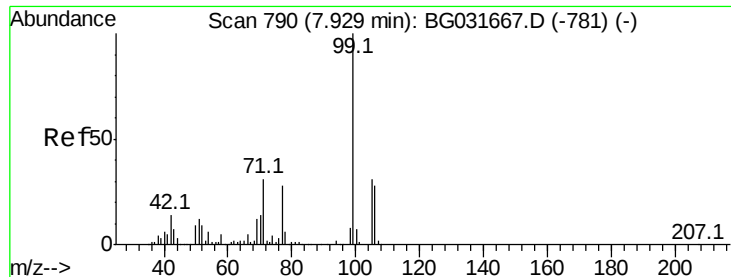
2-Fluorophenol
Concen: 153.911 ng
RT: 6.24 min Scan# 503
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Tgt Ion:112 Resp: 401756
Ion Ratio Lower Upper
112 100
64 48.3 56.3 84.5#
63 24.7 30.1 45.1#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 135.385 ng

RT: 7.92 min Scan# 789

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

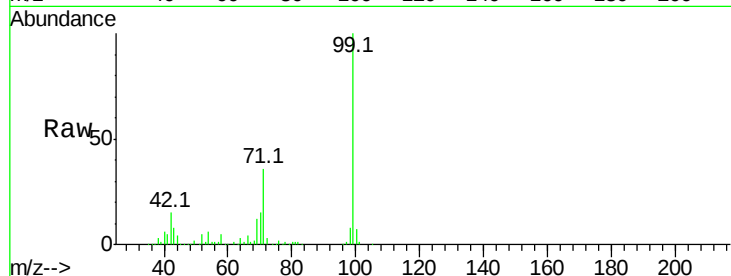
Tot Ion: 99 Resp: 458828

Ion Ratio Lower Upper

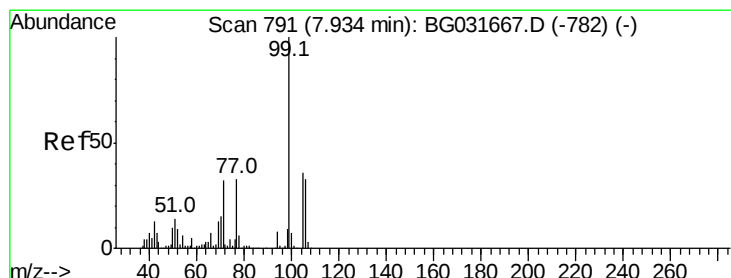
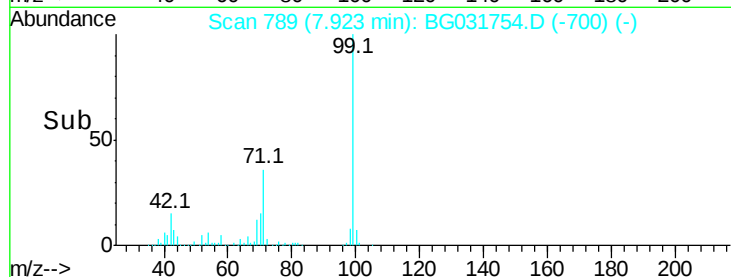
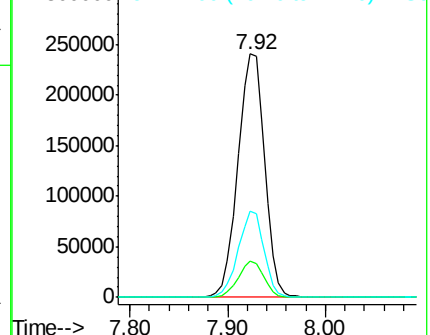
99 100

42 14.7 14.1 21.1

71 35.6 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#9

Benzaldehyde

Concen: 4.820 ng

RT: 8.33 min Scan# 859

Delta R.T. 0.40 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

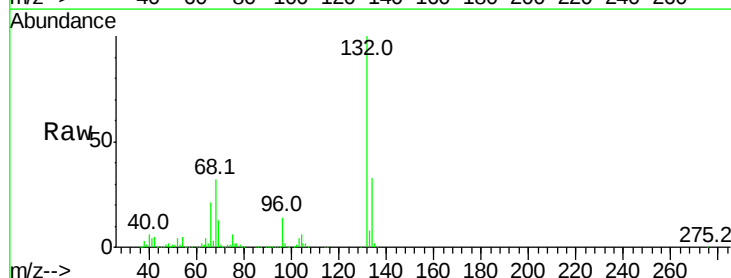
Tgt Ion: 77 Resp: 9837

Ion Ratio Lower Upper

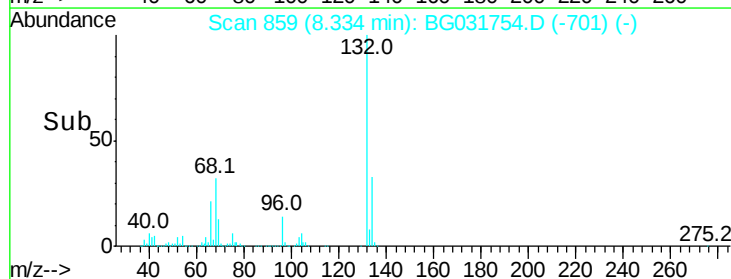
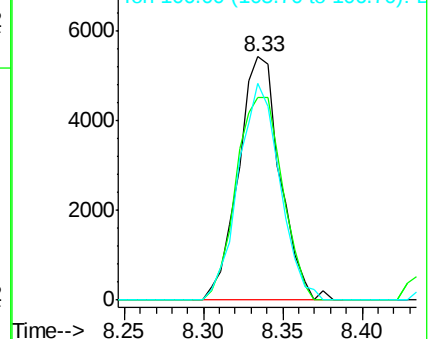
77 100

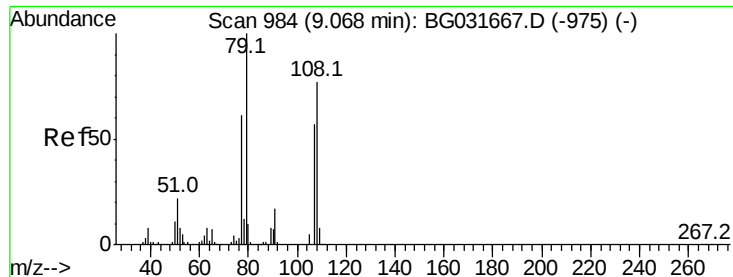
105 83.2 71.3 111.3

106 89.2 64.2 104.2



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





#15

Benzyl Alcohol

Concen: 2.102 ng

RT: 9.16 min Scan# 999

Delta R.T. 0.09 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

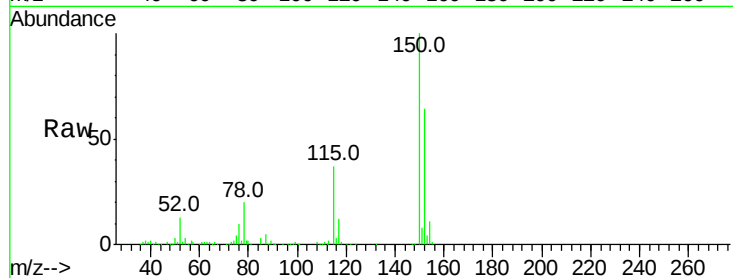
Tot Ion: 79 Resp: 5349

Ion Ratio Lower Upper

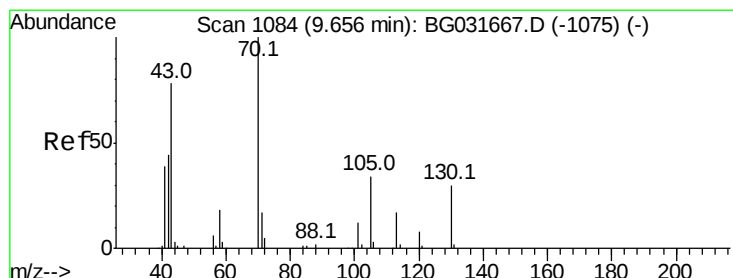
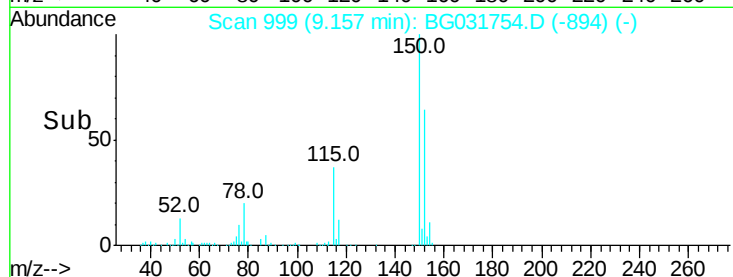
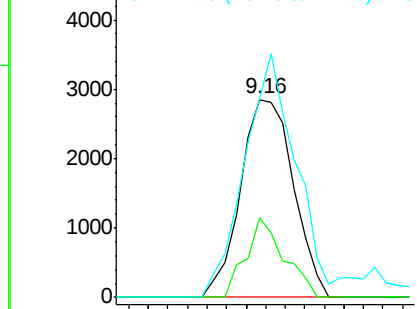
79 100

108 40.0 57.2 85.8#

77 100.4 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC
Ion 108.00 (107.70 to 108.70): BGC
Ion 77.00 (76.70 to 77.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 17.290 ng

RT: 10.03 min Scan# 1147

Delta R.T. 0.37 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Tgt Ion: 70 Resp: 40019

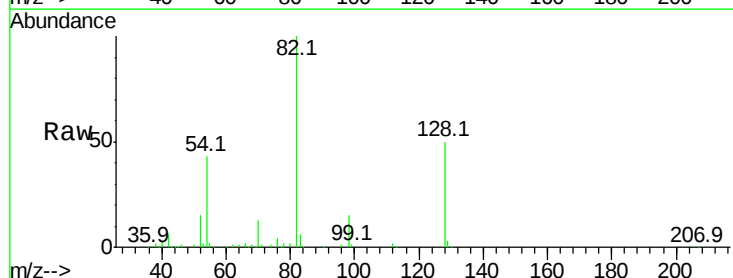
Ion Ratio Lower Upper

70 100

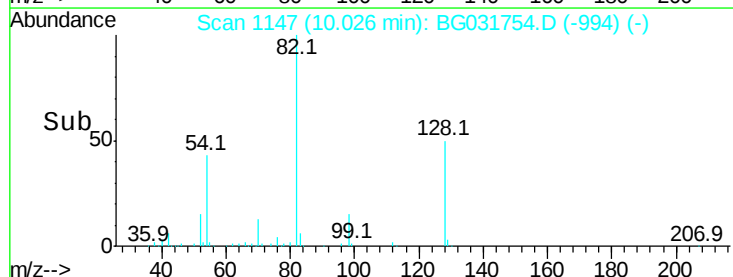
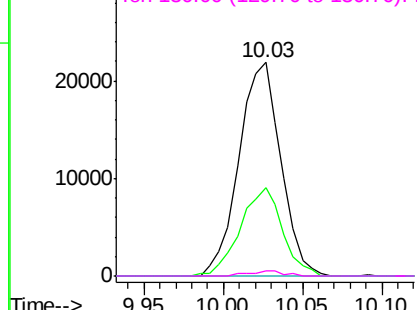
42 41.5 49.1 73.7#

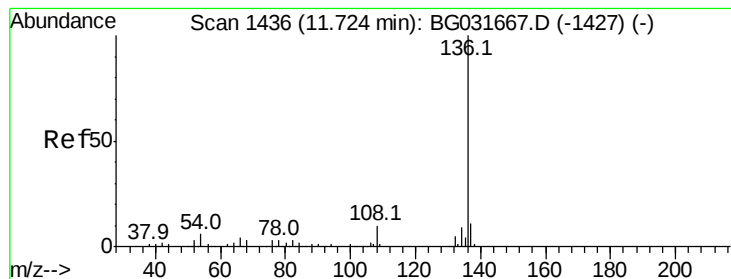
101 0.0 8.5 12.7#

130 2.3 13.4 20.0#



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





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.71 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

Tot Ion:136 Resp: 200607

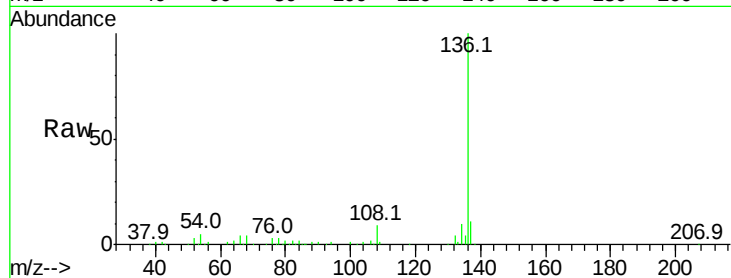
Ion Ratio Lower Upper

136 100

137 11.4 9.2 13.8

54 4.8 10.3 15.5#

68 4.0 4.5 6.7#

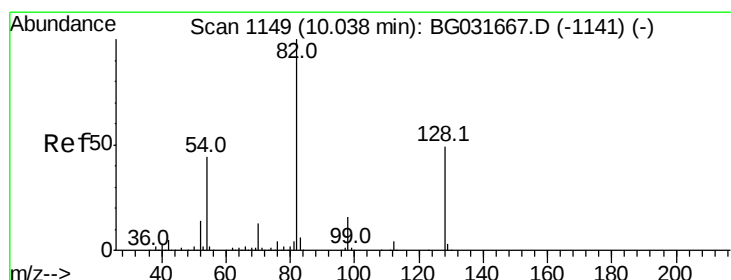
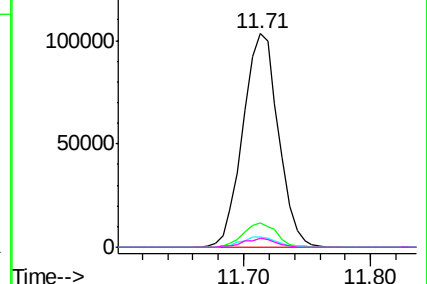
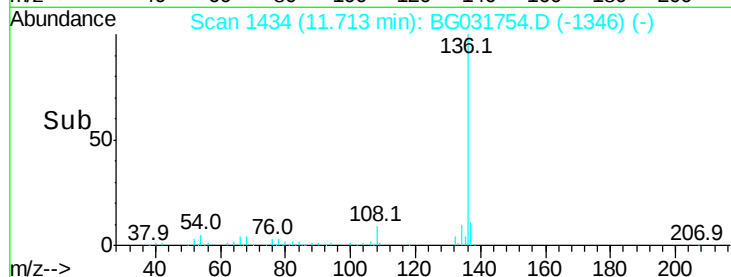


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 115.632 ng

RT: 10.03 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

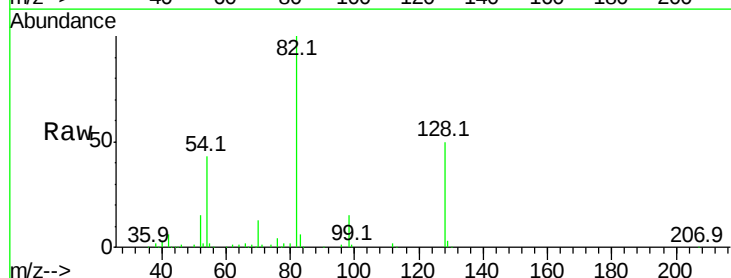
Tgt Ion: 82 Resp: 307191

Ion Ratio Lower Upper

82 100

128 49.5 29.7 44.5#

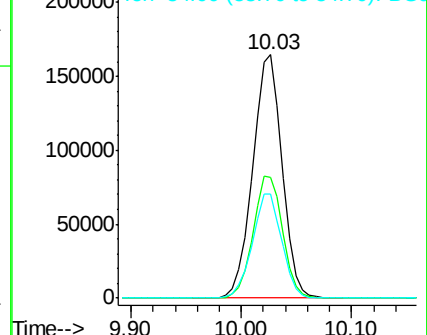
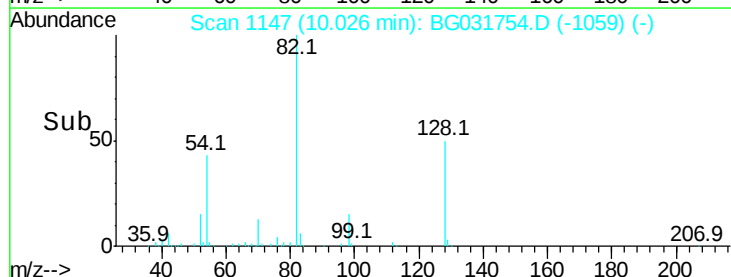
54 42.6 43.1 64.7#

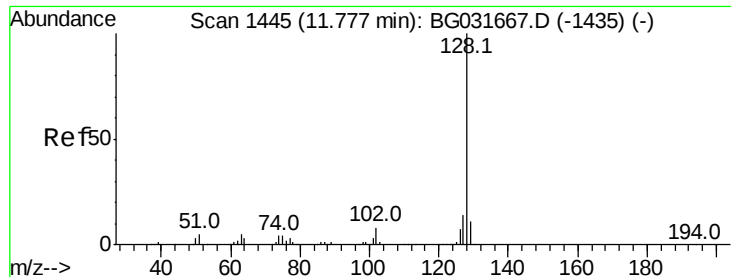


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

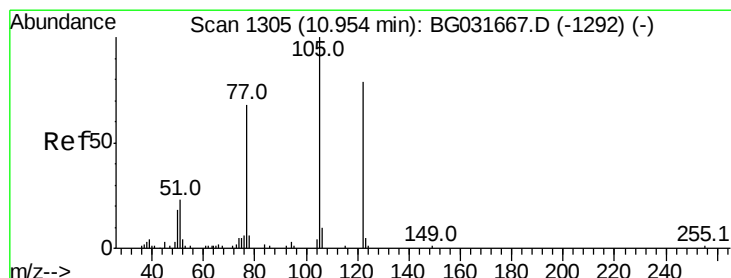
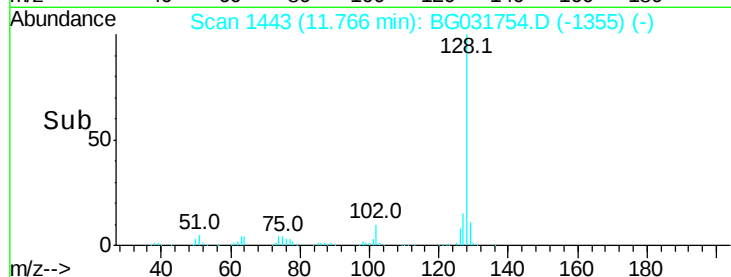
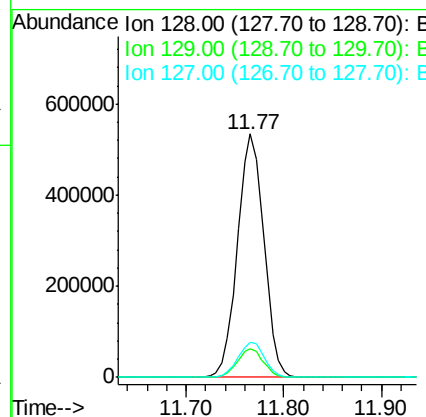
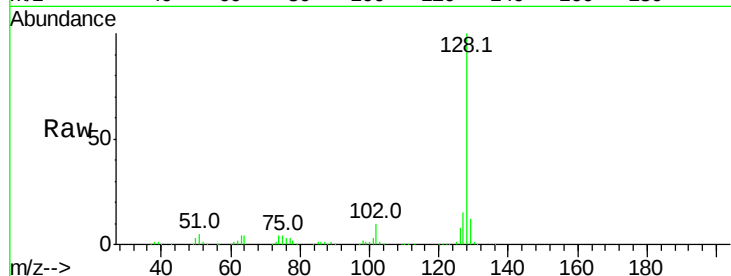




#31
Naphthalene
Concen: 99.121 ng
RT: 11.77 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

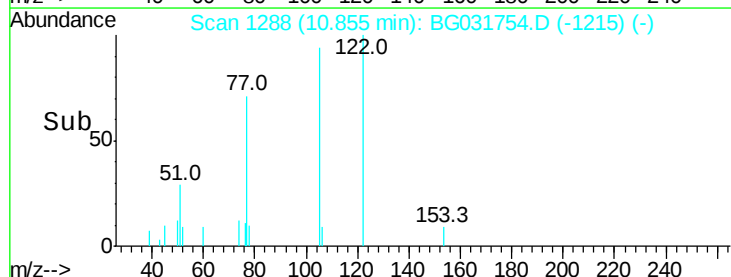
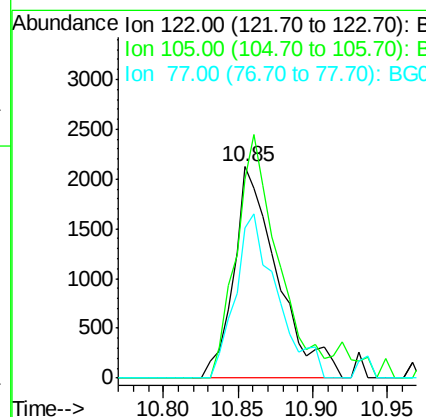
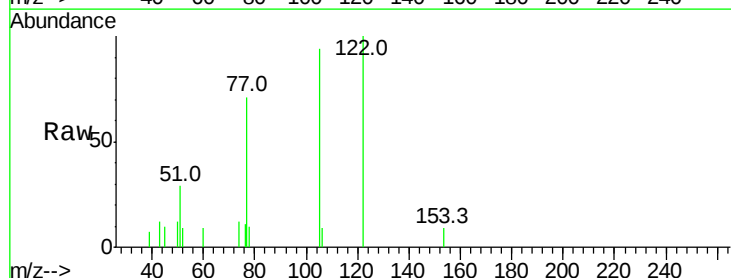
Instrument :
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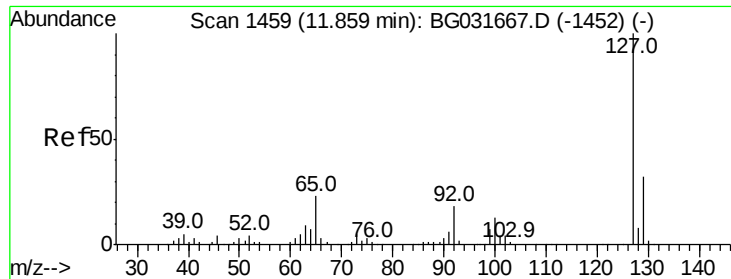
Tot Ion:128 Resp: 1003521
Ion Ratio Lower Upper
128 100
129 11.6 8.6 12.8
127 14.6 11.6 17.4



#32
Benzoic acid
Concen: 8.503 ng
RT: 10.85 min Scan# 1288
Delta R.T. -0.10 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Tgt Ion:122 Resp: 4329
Ion Ratio Lower Upper
122 100
105 94.1 123.5 163.5#
77 71.3 85.7 125.7#

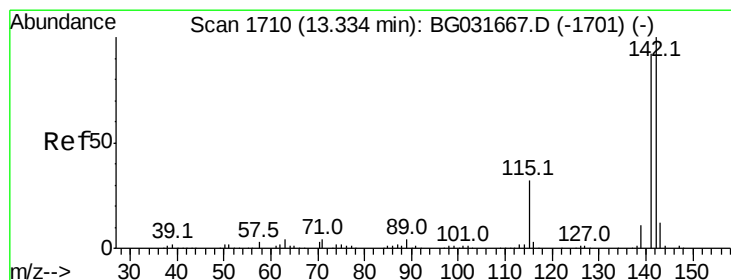
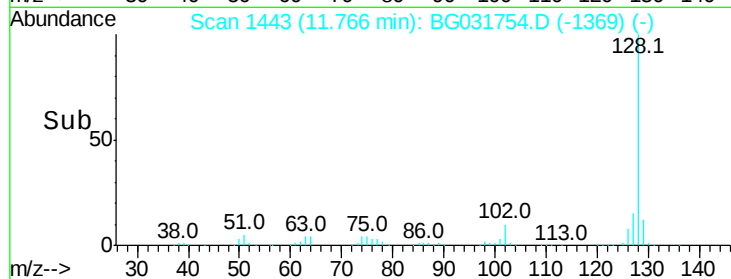
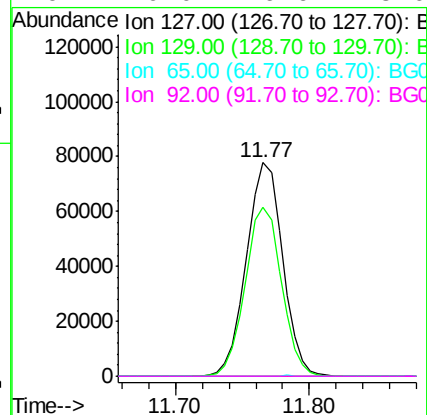
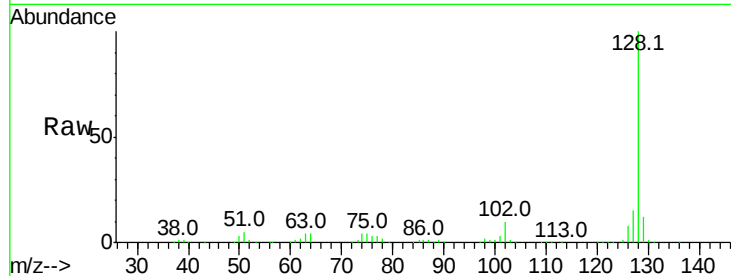




#33
 4-Chloroaniline
 Concen: 32.366 ng
 RT: 11.77 min Scan# 1443
 Delta R.T. -0.09 min
 Lab File: BG031754.D
 Acq: 23 Dec 2017 18:19

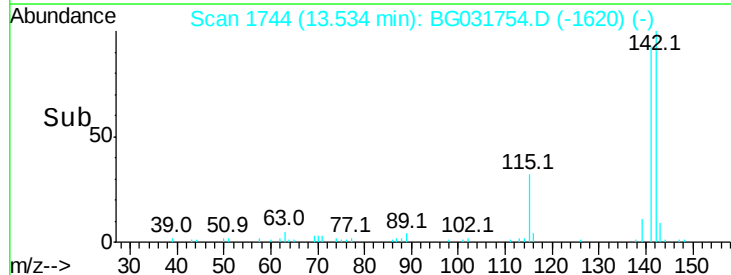
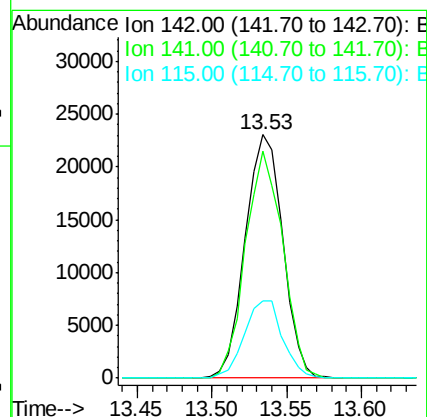
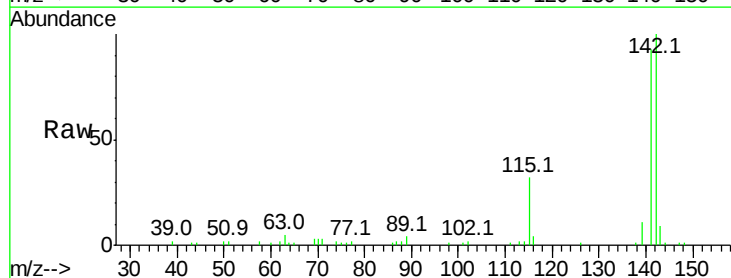
Instrument :
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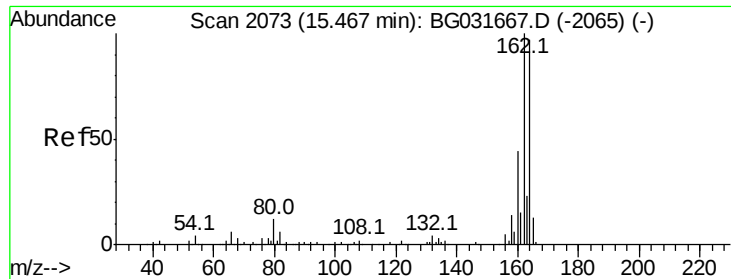
Tot Ion:127 Resp: 145884
 Ion Ratio Lower Upper
 127 100
 129 79.4 24.0 36.0#
 65 0.0 27.0 40.4#
 92 0.0 16.6 25.0#



#37
 2-Methylnaphthalene
 Concen: 4.892 ng
 RT: 13.53 min Scan# 1744
 Delta R.T. 0.20 min
 Lab File: BG031754.D
 Acq: 23 Dec 2017 18:19

Tgt Ion:142 Resp: 40147
 Ion Ratio Lower Upper
 142 100
 141 93.4 67.1 100.7
 115 31.8 30.7 46.1

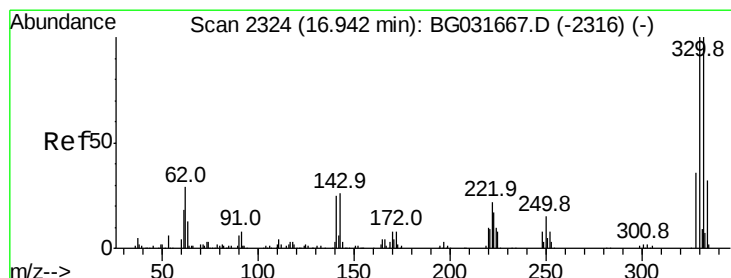
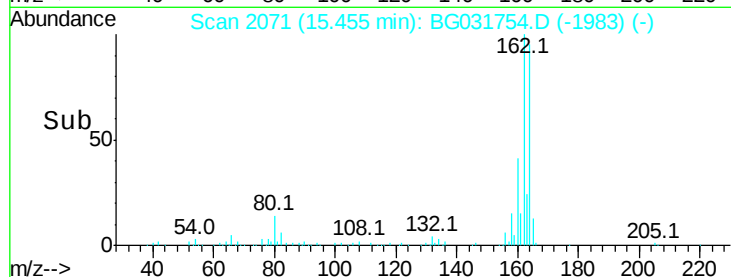
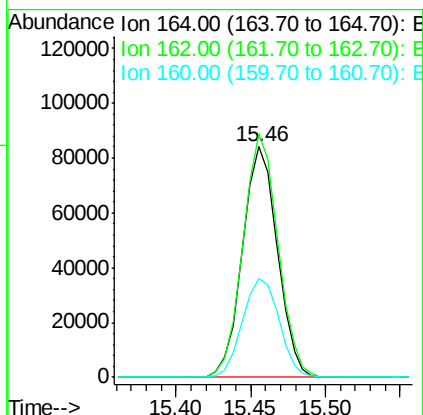
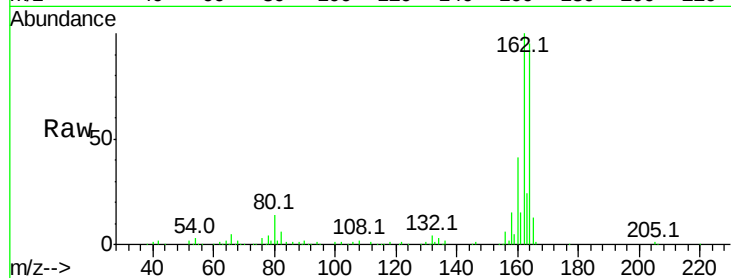




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.46 min Scan# 2071
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

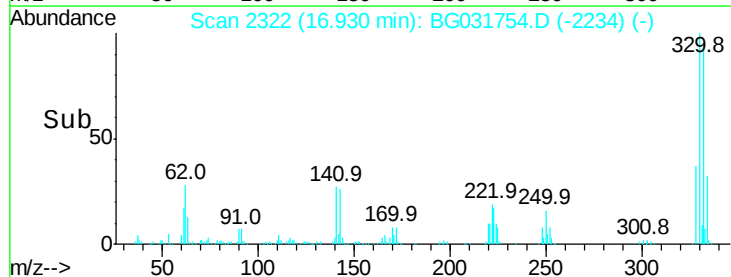
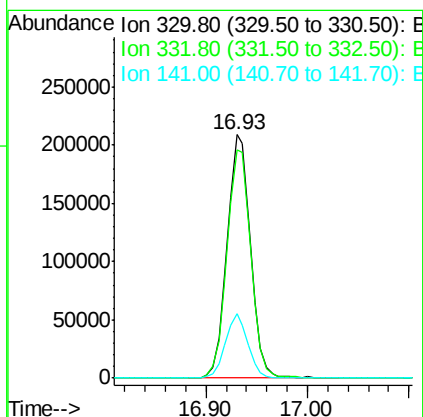
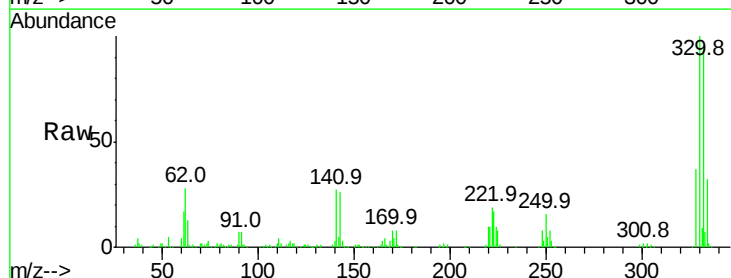
Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

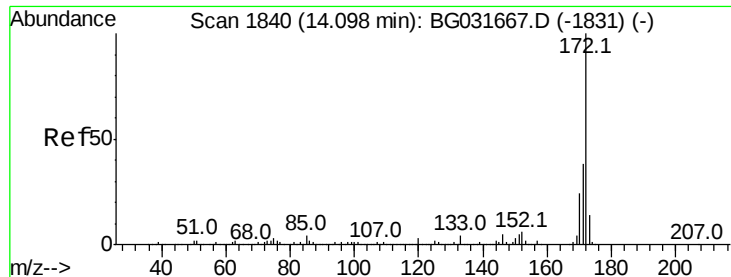
Tot Ion:164 Resp: 136148
Ion Ratio Lower Upper
164 100
162 105.7 78.8 118.2
160 43.1 35.4 53.0



#41
2,4,6-Tribromophenol
Concen: 160.799 ng
RT: 16.93 min Scan# 2322
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Tgt Ion:330 Resp: 334048
Ion Ratio Lower Upper
330 100
332 95.8 77.0 115.6
141 25.4 25.2 37.8

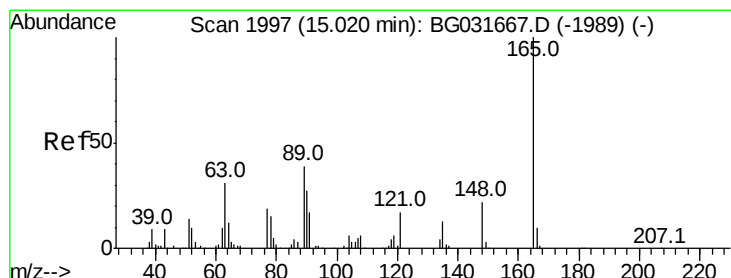
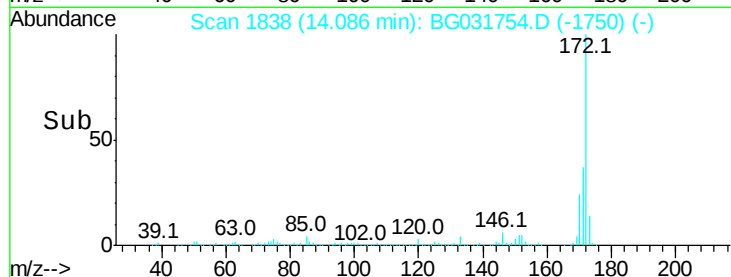
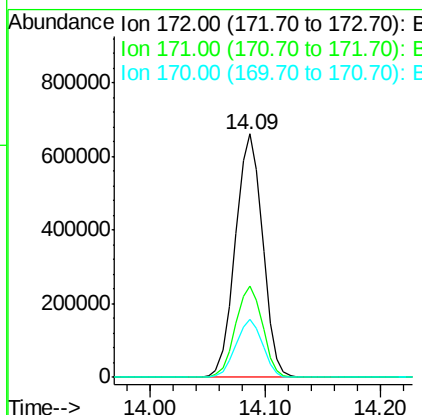
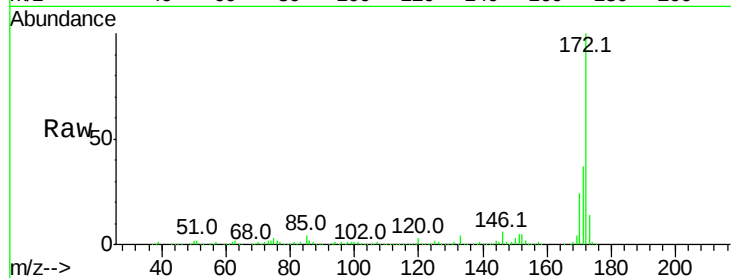




#44
2-Fluorobiphenyl
Concen: 99.239 ng
RT: 14.09 min Scan# 1838
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

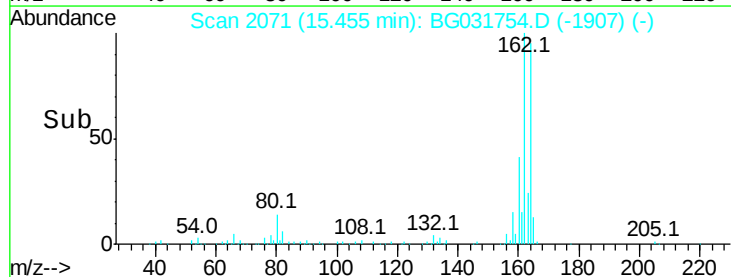
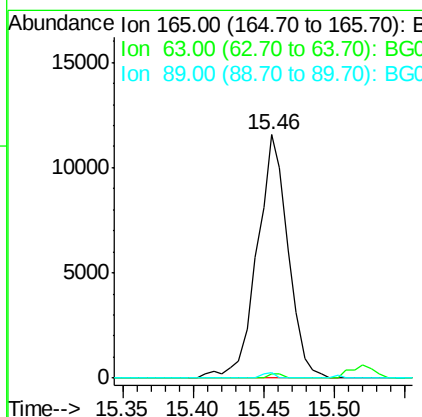
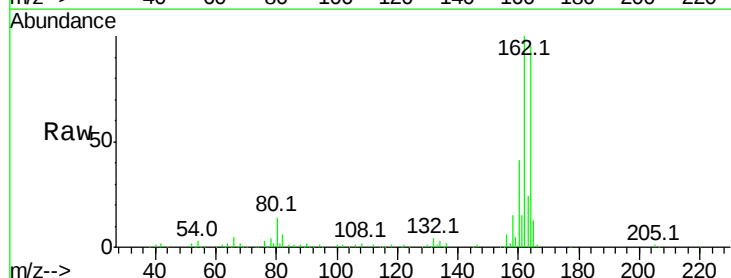
Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

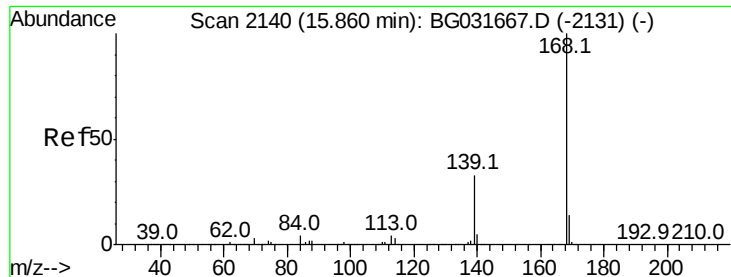
Tot Ion:172 Resp: 1076475
Ion Ratio Lower Upper
172 100
171 37.4 30.0 45.0
170 24.0 19.5 29.3



#50
2,6-Dinitrotoluene
Concen: 8.063 ng
RT: 15.46 min Scan# 2071
Delta R.T. 0.44 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Tgt Ion:165 Resp: 17790
Ion Ratio Lower Upper
165 100
63 1.7 52.7 79.1#
89 2.1 49.2 73.8#





#54

Dibenzofuran

Concen: 2.575 ng

RT: 15.85 min Scan# 2138

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

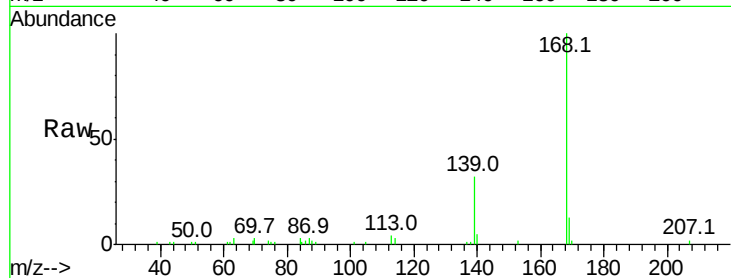
Tot Ion:168 Resp: 36679

Ion Ratio Lower Upper

168 100

139 31.6 28.6 43.0

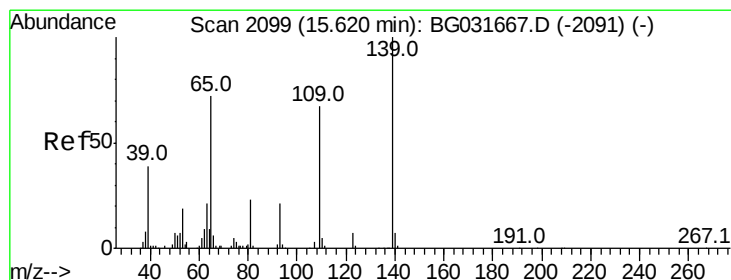
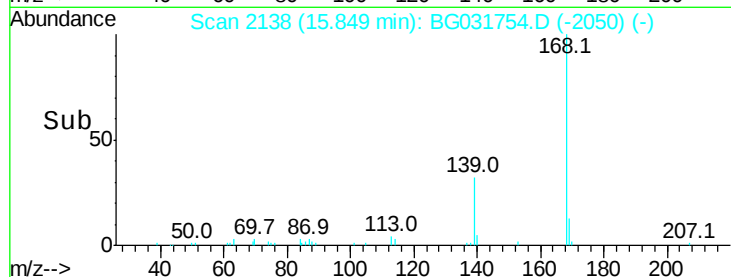
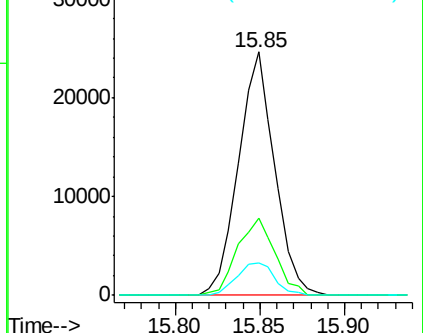
169 13.1 11.2 16.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 6.847 ng

RT: 15.85 min Scan# 2138

Delta R.T. 0.23 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

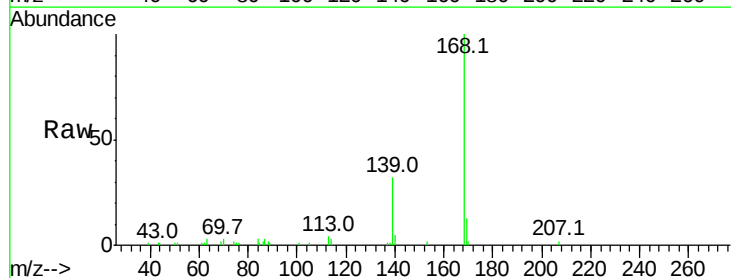
Tgt Ion:139 Resp: 11997

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

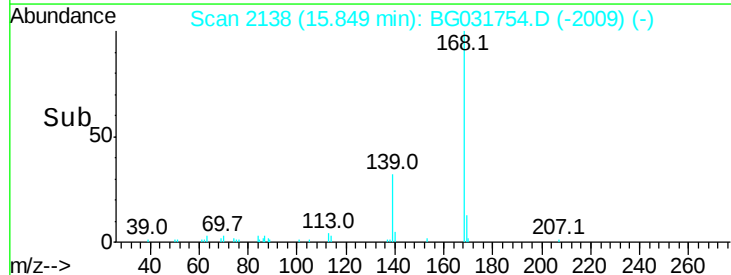
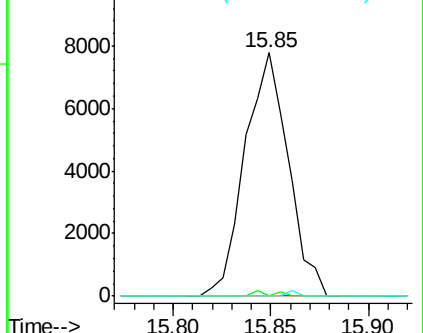
65 0.0 97.2 137.2#

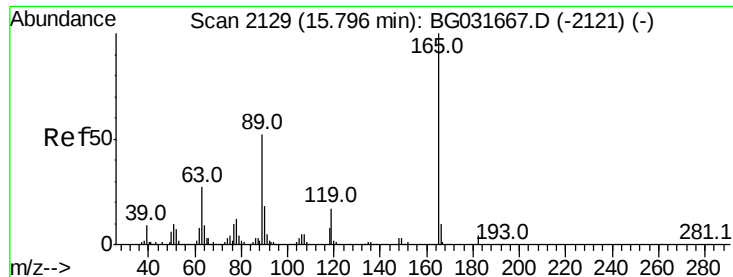


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC





#56

2,4-Dinitrotoluene

Concen: 6.270 ng

RT: 15.46 min Scan# 2071

Delta R.T. -0.34 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

Tot Ion:165 Resp: 17790

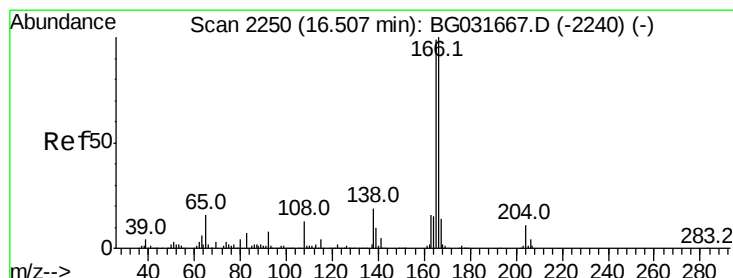
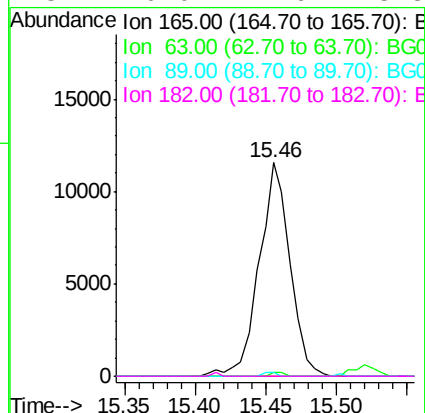
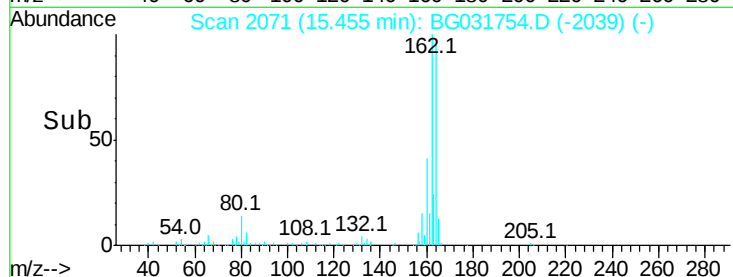
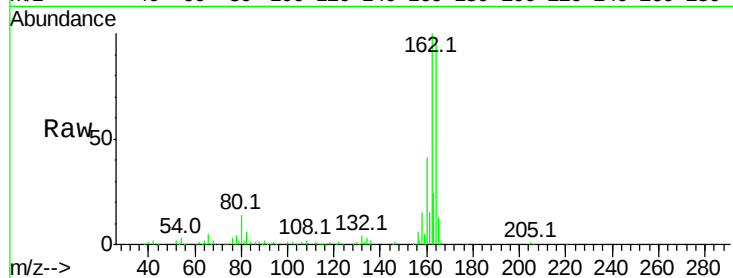
Ion Ratio Lower Upper

165 100

63 1.7 42.0 63.0#

89 2.1 66.9 100.3#

182 0.0 2.6 3.8#



#57

Fluorene

Concen: 2.875 ng

RT: 16.50 min Scan# 2248

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

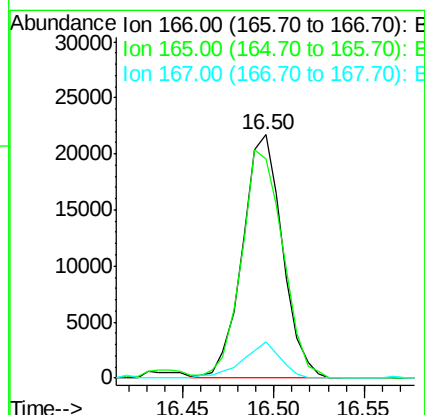
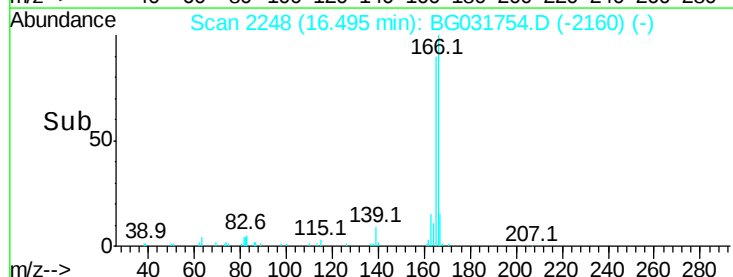
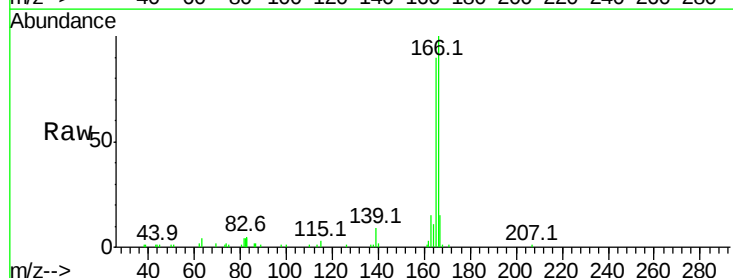
Tgt Ion:166 Resp: 33273

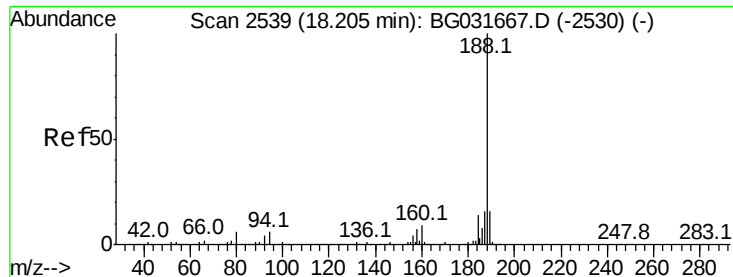
Ion Ratio Lower Upper

166 100

165 89.9 80.6 121.0

167 15.1 10.4 15.6

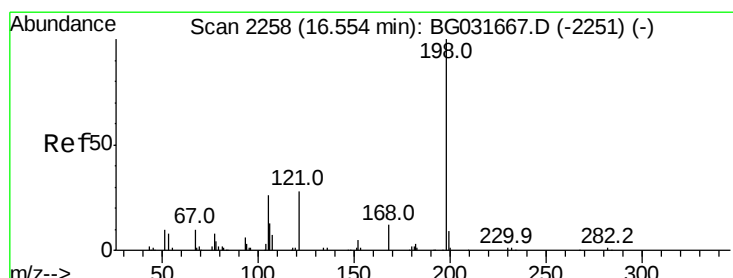
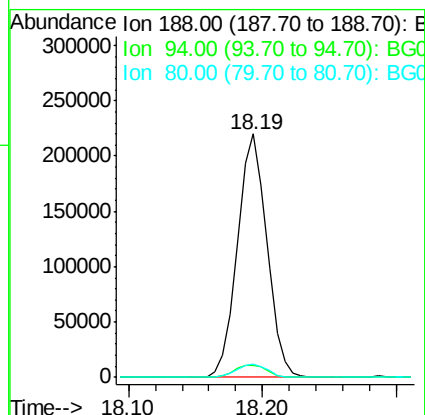
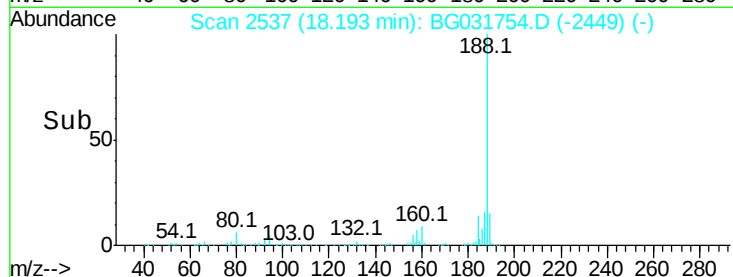
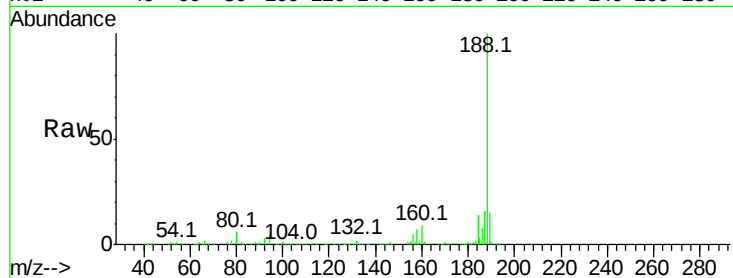




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 18.19 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

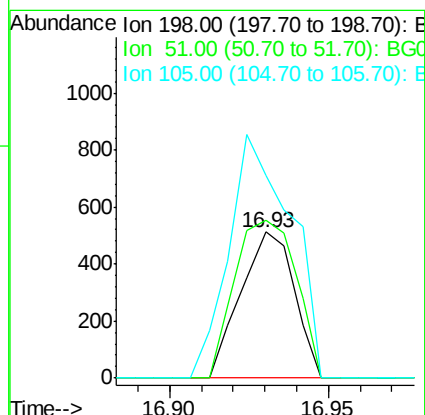
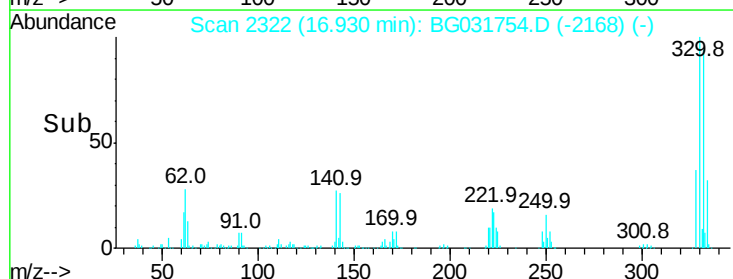
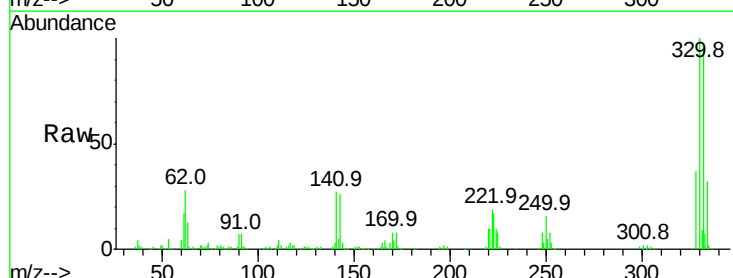
Instrument :
BNA_G
ClientSampleId :
VNJ-221-OILY-STONES

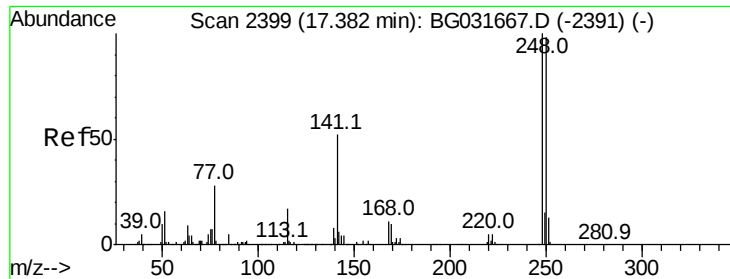
Tot Ion:188 Resp: 337414
Ion Ratio Lower Upper
188 100
94 5.1 6.9 10.3#
80 5.6 7.7 11.5#



#64
4,6-Dinitro-2-methylphenol
Concen: 8.608 ng
RT: 16.93 min Scan# 2322
Delta R.T. 0.38 min
Lab File: BG031754.D
Acq: 23 Dec 2017 18:19

Tgt Ion:198 Resp: 599
Ion Ratio Lower Upper
198 100
51 108.0 30.6 70.6#
105 138.8 23.8 63.8#

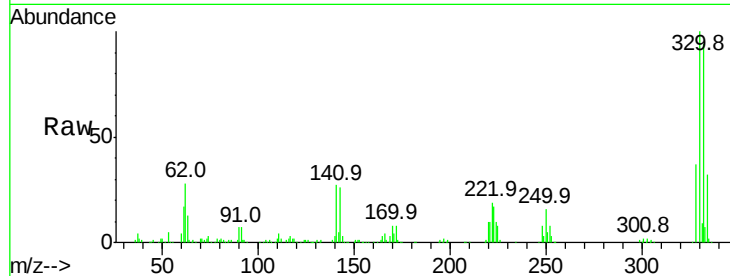




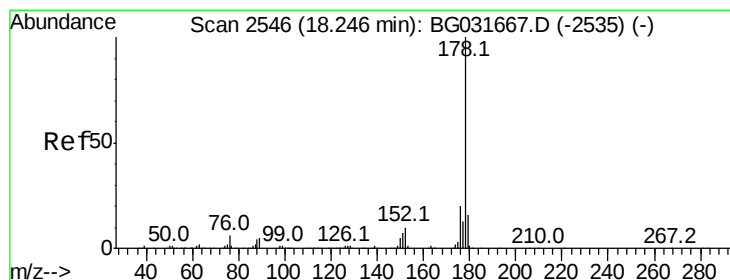
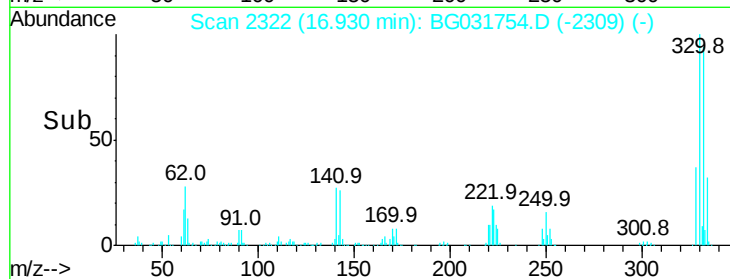
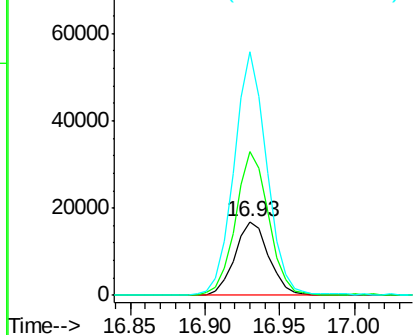
#66
 4-Bromophenyl-phenylether
 Concen: 5.476 ng
 RT: 16.93 min Scan# 2322
 Delta R.T. -0.45 min
 Lab File: BG031754.D
 Acq: 23 Dec 2017 18:19

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-221-OILY-STONES

Tot Ion:248 Resp: 26718
 Ion Ratio Lower Upper
 248 100
 250 195.7 77.1 115.7#
 141 330.1 50.8 76.2#

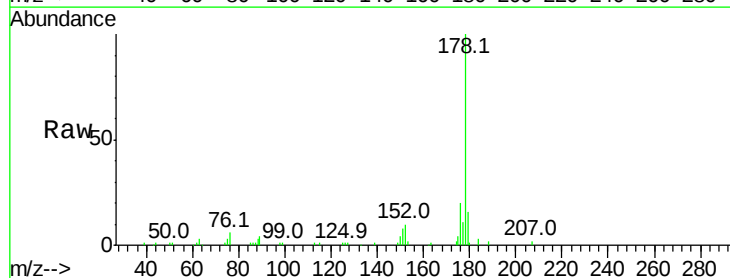


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

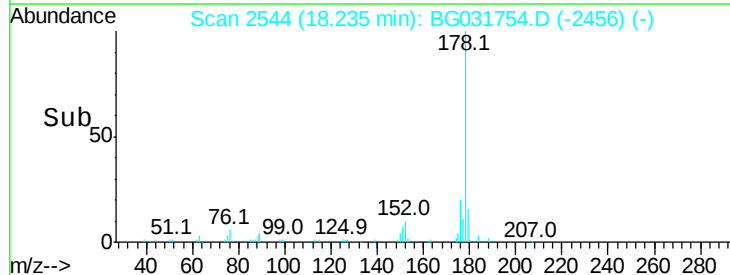
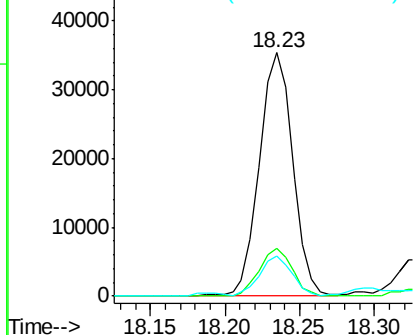


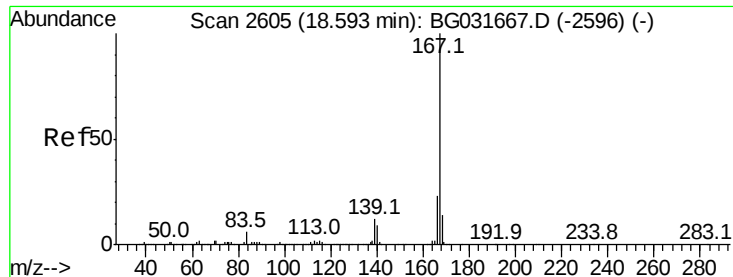
#70
 Phenanthrene
 Concen: 2.877 ng
 RT: 18.23 min Scan# 2544
 Delta R.T. -0.01 min
 Lab File: BG031754.D
 Acq: 23 Dec 2017 18:19

Tgt Ion:178 Resp: 54929
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.7 23.5
 179 16.4 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.446 ng

RT: 18.58 min Scan# 2603

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

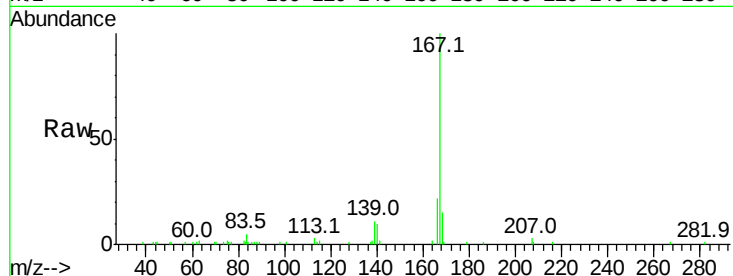
Tot Ion:167 Resp: 41704

Ion Ratio Lower Upper

167 100

166 22.5 18.2 27.4

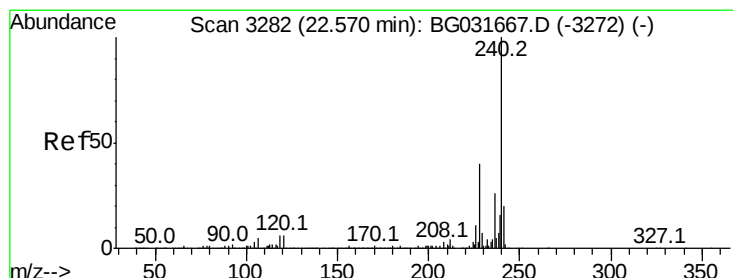
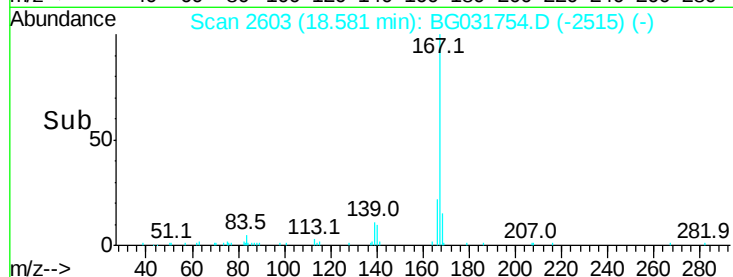
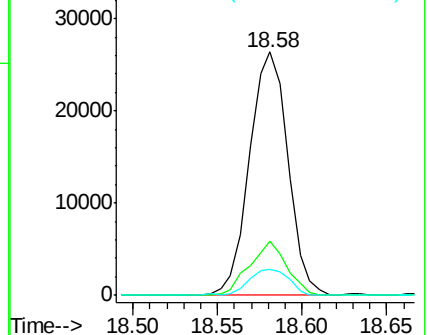
139 10.7 9.4 14.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.55 min Scan# 3279

Delta R.T. -0.02 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

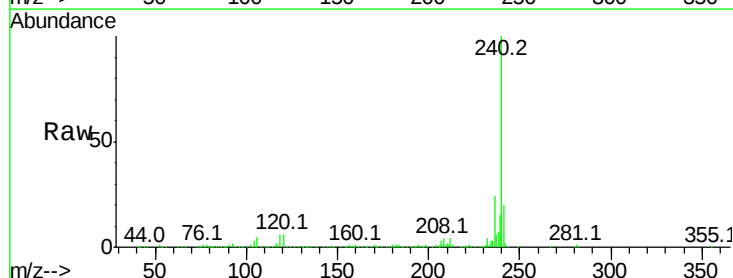
Tgt Ion:240 Resp: 399516

Ion Ratio Lower Upper

240 100

120 5.8 6.8 10.2#

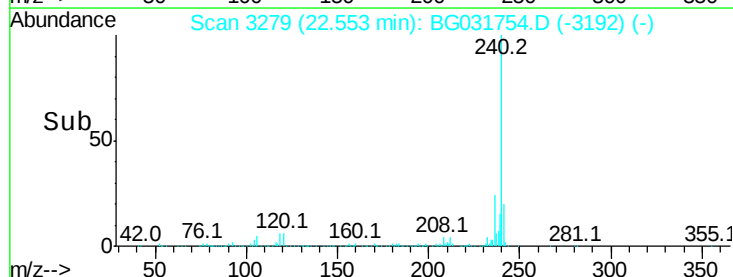
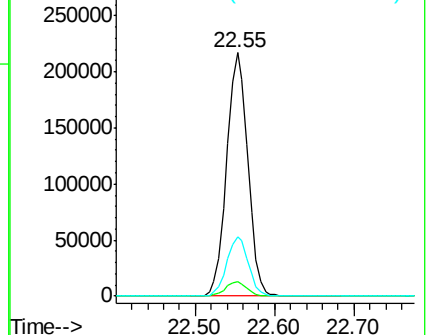
236 24.3 20.9 31.3

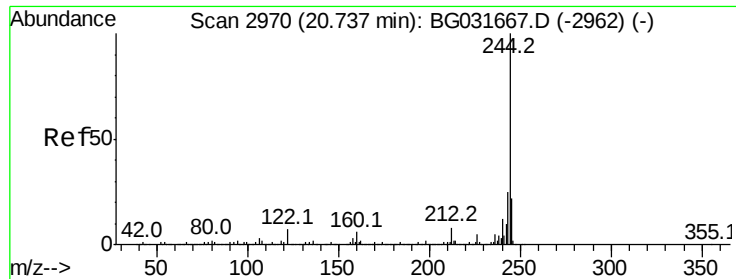


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 109.722 ng

RT: 20.73 min Scan# 2968

Delta R.T. -0.01 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

Instrument :

BNA_G

ClientSampleId :

VNJ-221-OILY-STONES

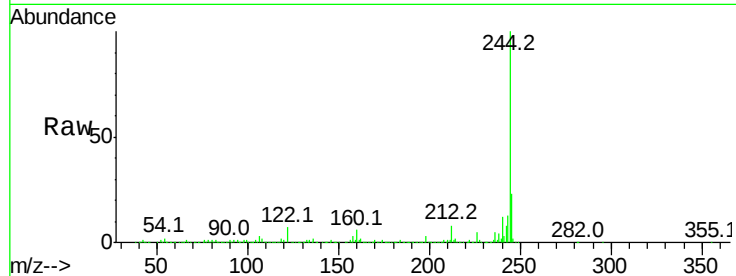
Tot Ion:244 Resp: 1918698

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

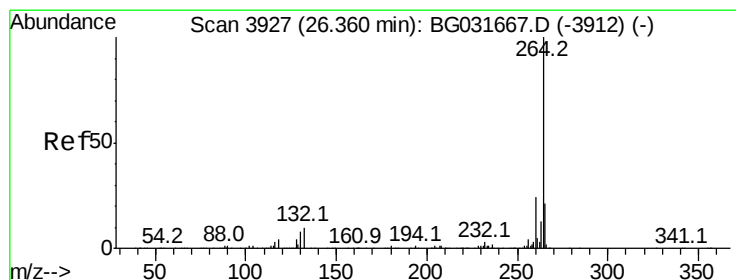
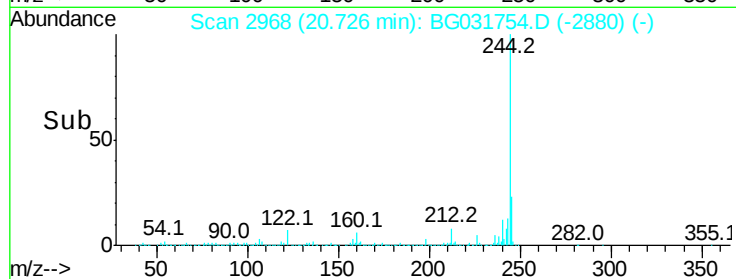
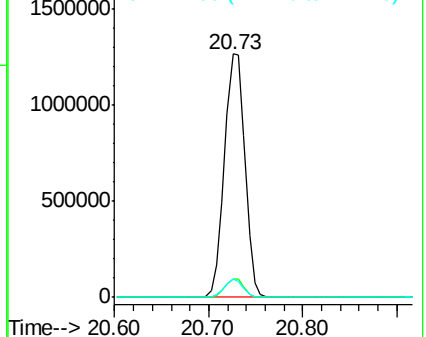
122 7.5 7.0 10.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.34 min Scan# 3924

Delta R.T. -0.02 min

Lab File: BG031754.D

Acq: 23 Dec 2017 18:19

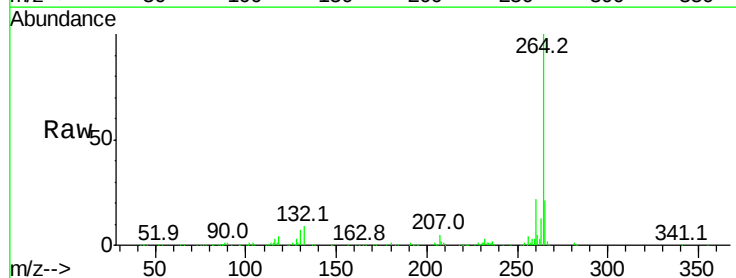
Tgt Ion:264 Resp: 428108

Ion Ratio Lower Upper

264 100

260 21.8 17.4 26.0

265 21.2 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

