

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082519\
 Data File : BG042477.D
 Acq On : 25 Aug 2019 14:30
 Operator : HP/JU
 Sample : K4451-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

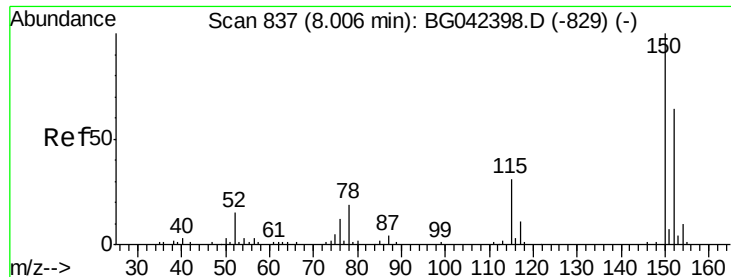
Quant Time: Aug 26 06:32:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	51328	20.00	ng	0.00
21) Naphthalene-d8	10.82	136	207116	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	159553	20.00	ng	0.00
64) Phenanthrene-d10	17.42	188	348827	20.00	ng	0.00
76) Chrysene-d12	21.70	240	379603	20.00	ng	0.00
87) Perylene-d12	24.93	264	451160	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	148395	58.55	ng	0.00
7) Phenol-d6	7.17	99	131006	38.27	ng	0.00
23) Nitrobenzene-d5	9.17	82	293033	97.77	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	302041	133.19	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	876216	92.88	ng	0.00
79) Terphenyl-d14	20.03	244	1415087	80.59	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.12	88	13891	13.134	ng	# 1
10) Phenol	7.19	94	9802	2.816	ng	87
18) Hexachloroethane	9.12	117	21785	16.078	ng	# 1
22) Acetophenone	8.81	105	17172	3.876	ng	# 59
31) Naphthalene	10.87	128	27808	2.892	ng	# 73
32) Benzoic acid	10.14	122	2016	9.049	ng	# 59
37) 2-Methylnaphthalene	12.71	142	142264	18.425	ng	92
38) 1-Methylnaphthalene	12.71	142	142264	19.398	ng	99
46) 1,1'-Biphenyl	13.49	154	61499	5.963	ng	98
50) Dimethylphthalate	14.11	163	119234	10.357	ng	# 87
51) 2,6-Dinitrotoluene	14.24	165	11381	4.265	ng	# 60
52) Acenaphthene	14.72	154	21657	2.666	ng	98
54) 2,4-Dinitrophenol	14.77	184	251	6.390	ng	# 1
55) Dibenzofuran	15.06	168	32891	2.446	ng	# 56
56) 4-Nitrophenol	14.87	139	5588	2.947	ng	# 1
58) Fluorene	15.71	166	49151	4.471	ng	# 92
60) Diethylphthalate	15.47	149	36411	3.235	ng	# 73
67) 4-Bromophenyl-phenylether	16.16	248	21701	4.905	ng	# 1
71) Phenanthrene	17.46	178	102843	5.935	ng	94
72) Anthracene	17.46	178	102843	5.946	ng	94
73) Carbazole	17.82	167	396813	25.740	ng	98

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

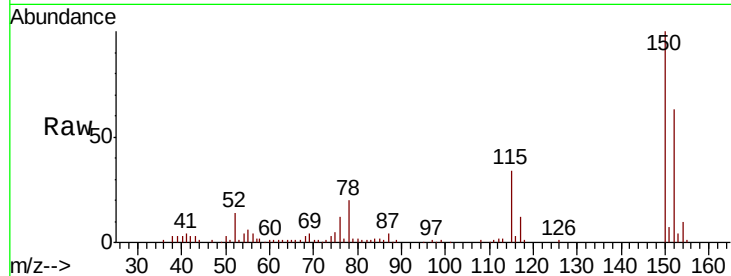


#1

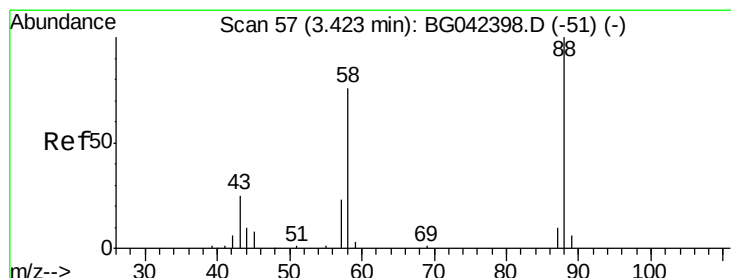
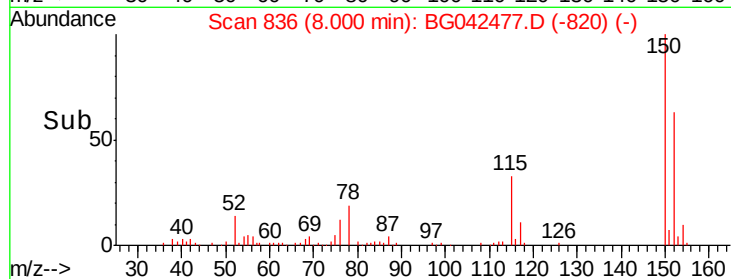
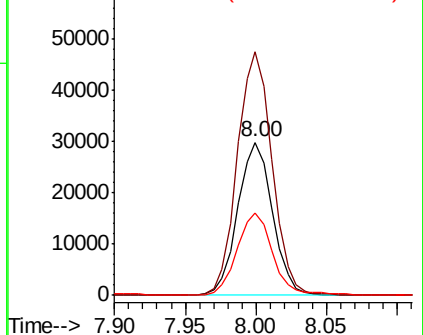
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 51328
Ion Ratio Lower Upper
152 100
150 158.7 125.4 188.0
115 53.6 38.5 57.7



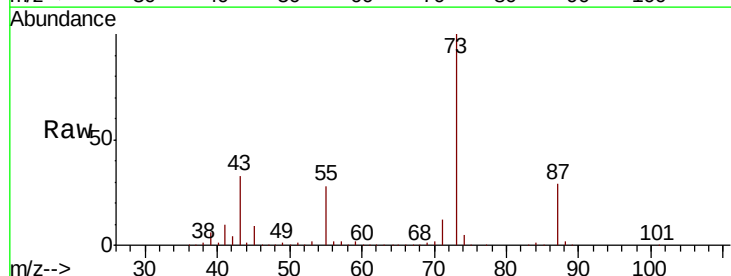
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



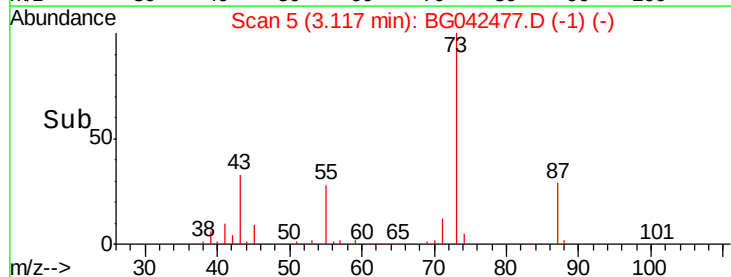
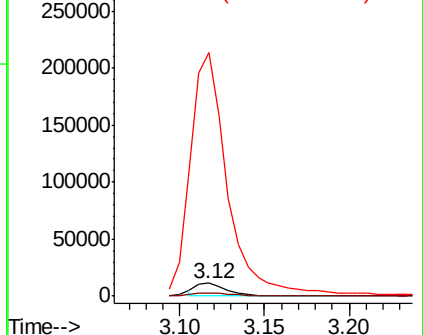
#2

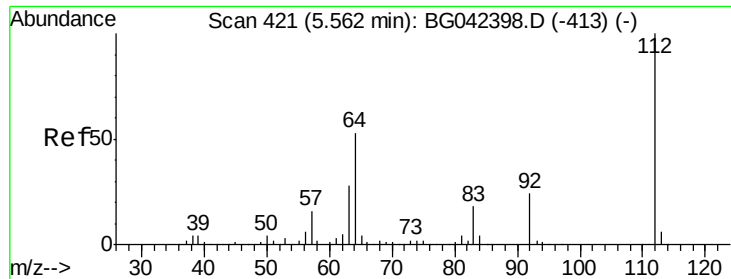
1,4-Dioxane
Concen: 13.134 ng
RT: 3.12 min Scan# 5
Delta R.T. -0.31 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Tgt Ion: 88 Resp: 13891
Ion Ratio Lower Upper
88 100
58 22.1 58.3 87.5#
43 1971.7 20.2 30.2#



Abundance Ion 88.00 (87.70 to 88.70): BGC
Ion 58.00 (57.70 to 58.70): BGC
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 58.553 ng

RT: 5.56 min Scan# 420

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampled :

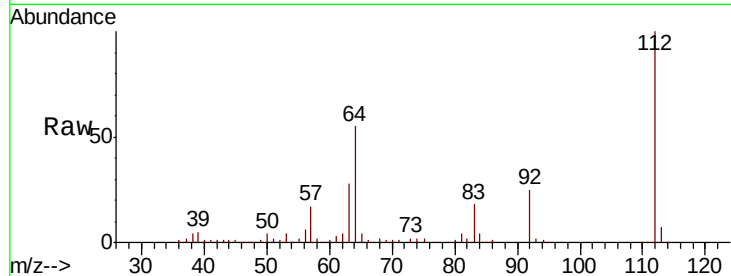
Tot Ion: 112 Resp: 148395

Ion Ratio Lower Upper

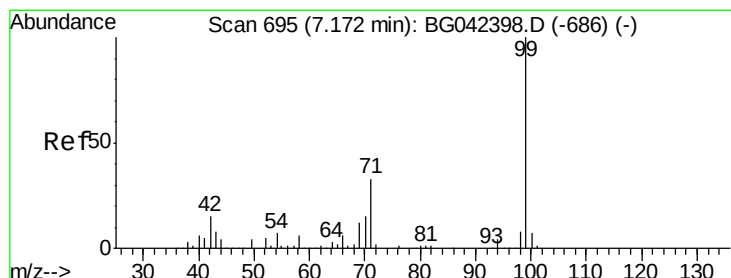
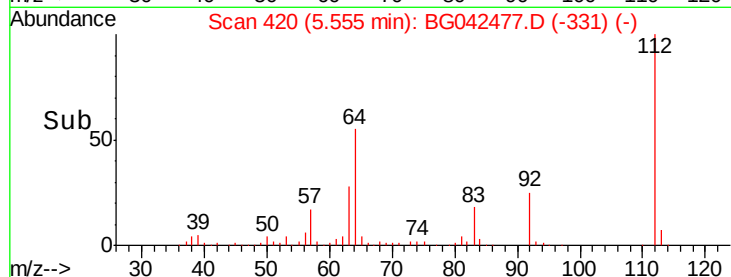
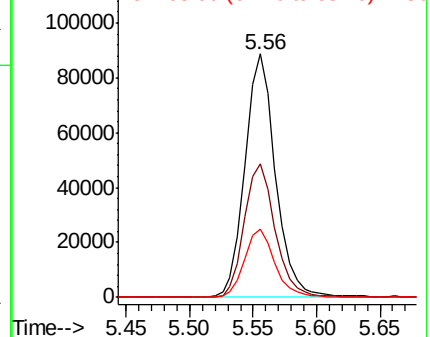
112 100

64 54.8 42.8 64.2

63 28.1 22.7 34.1



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



#7

Phenol-d6

Concen: 38.269 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

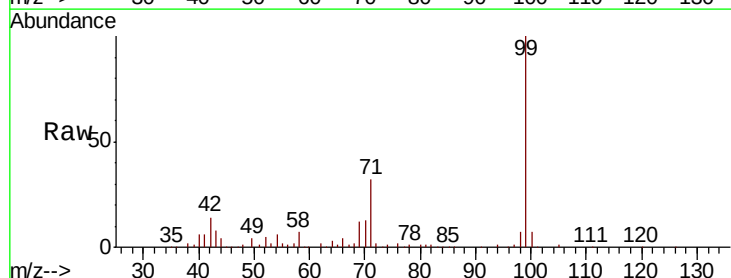
Tgt Ion: 99 Resp: 131006

Ion Ratio Lower Upper

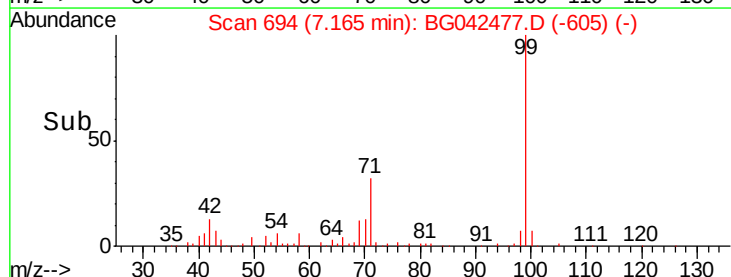
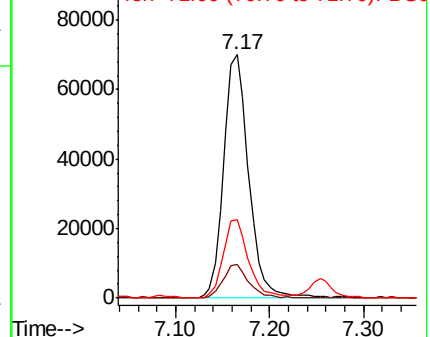
99 100

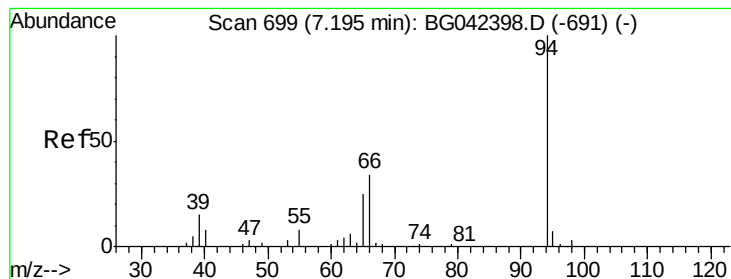
42 13.6 12.0 18.0

71 32.0 26.3 39.5



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





#10

Phenol

Concen: 2.816 ng

RT: 7.19 min Scan# 698

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampled :

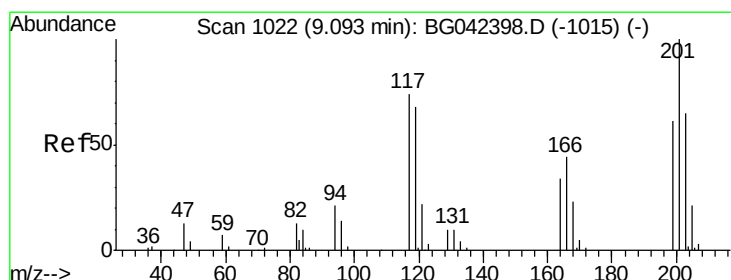
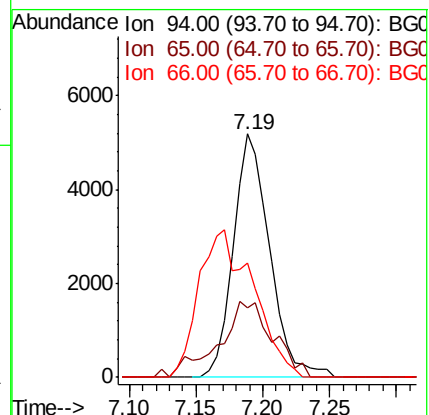
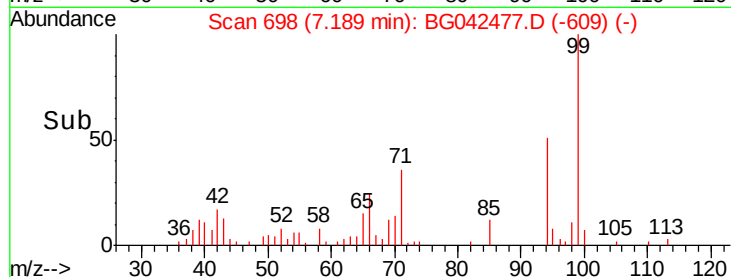
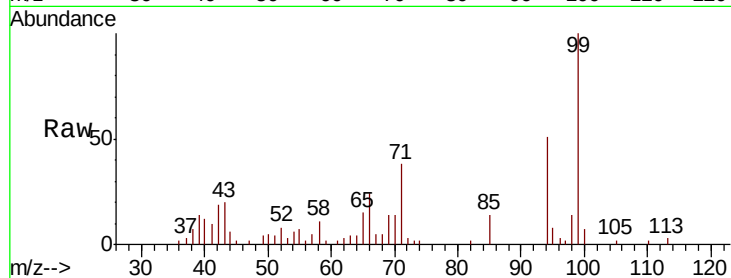
Tot Ion: 94 Resp: 9802

Ion Ratio Lower Upper

94 100

65 28.4 5.6 45.6

66 46.9 16.0 56.0



#18

Hexachloroethane

Concen: 16.078 ng

RT: 9.12 min Scan# 1027

Delta R.T. 0.03 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

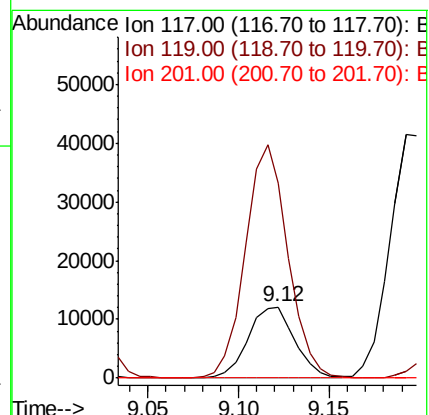
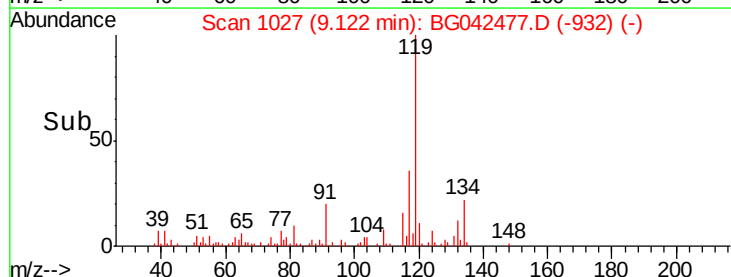
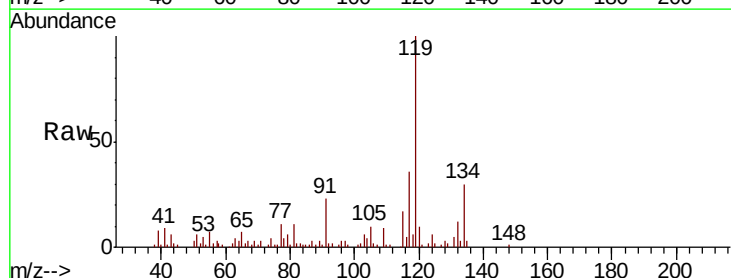
Tgt Ion: 117 Resp: 21785

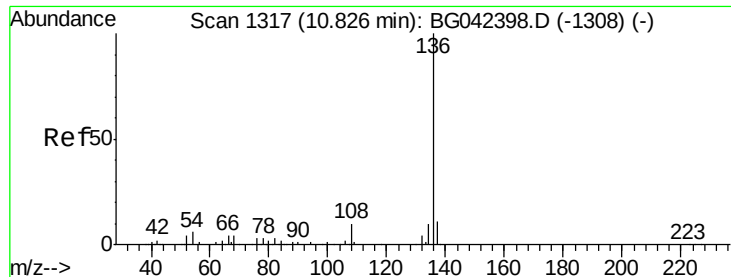
Ion Ratio Lower Upper

117 100

119 275.4 73.8 110.8#

201 0.0 108.3 162.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.82 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampleId :

Tot Ion:136 Resp: 207116

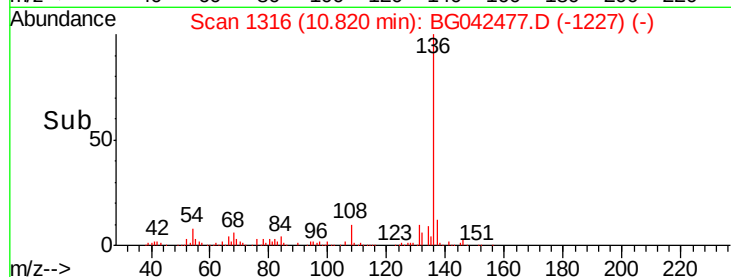
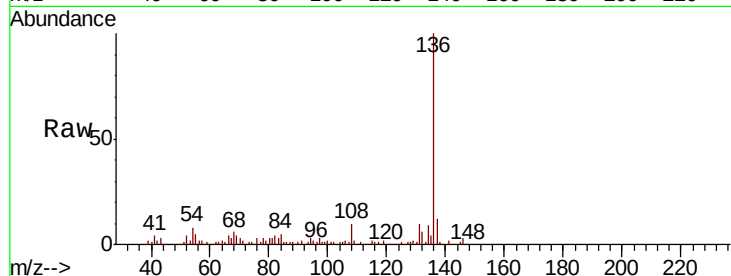
Ion Ratio Lower Upper

136 100

137 12.4 8.7 13.1

54 7.8 4.9 7.3#

68 6.3 3.6 5.4#

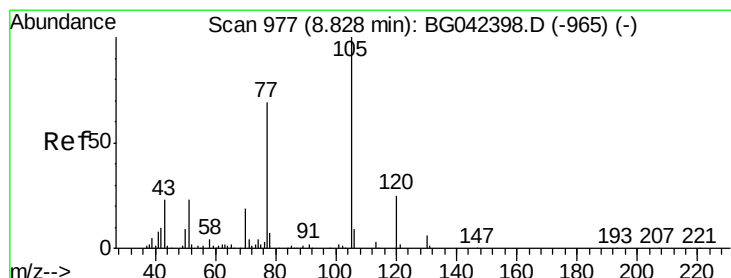
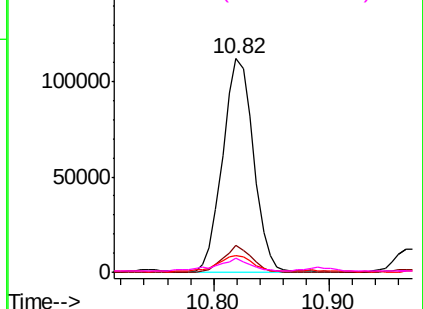


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 3.876 ng

RT: 8.81 min Scan# 974

Delta R.T. -0.02 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Tgt Ion:105 Resp: 17172

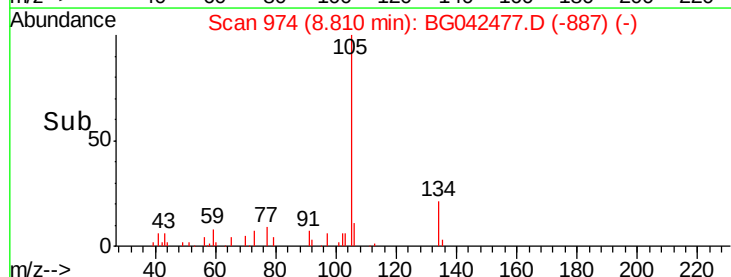
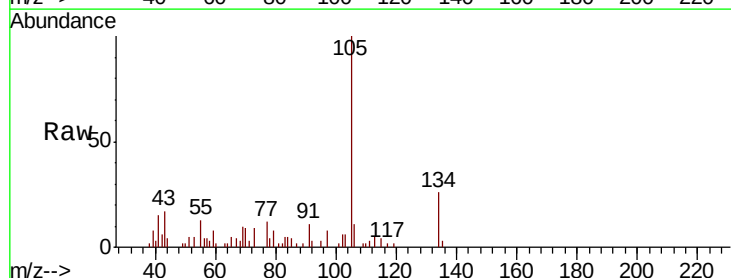
Ion Ratio Lower Upper

105 100

71 3.5 2.8 4.2

51 4.9 18.7 28.1#

120 0.0 20.1 30.1#

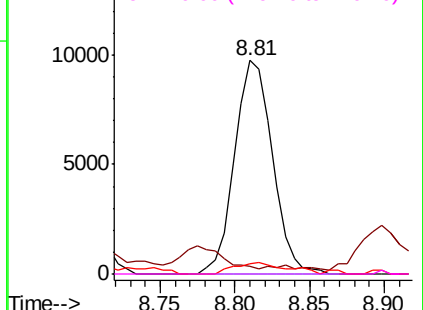


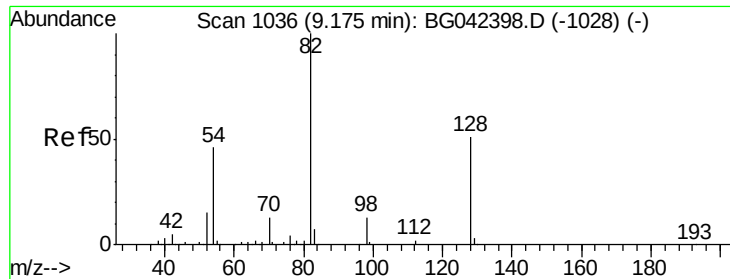
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E

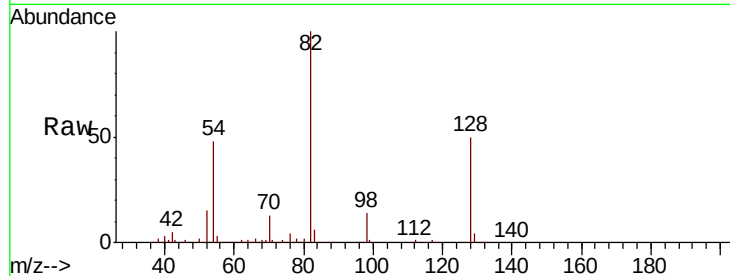




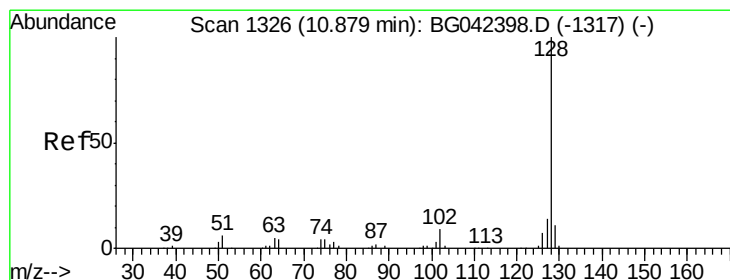
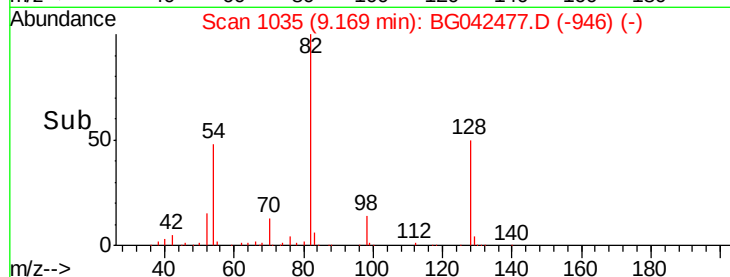
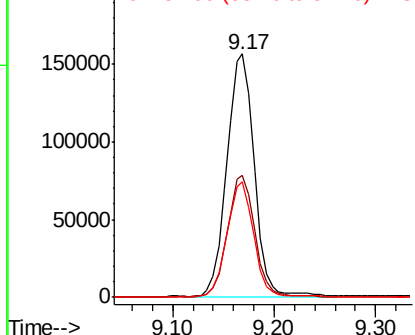
#23
Nitrobenzene-d5
Concen: 97.770 ng
RT: 9.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Instrument :
BNA_G
ClientSampled :

Tot Ion	82	Resp	293033
Ion Ratio	Lower	Upper	
82	100		
128	50.3	40.7	61.1
54	47.7	36.3	54.5

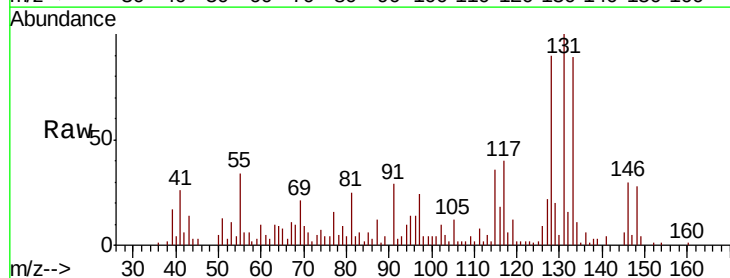


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

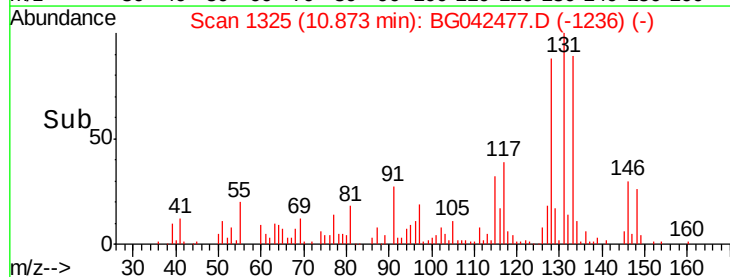
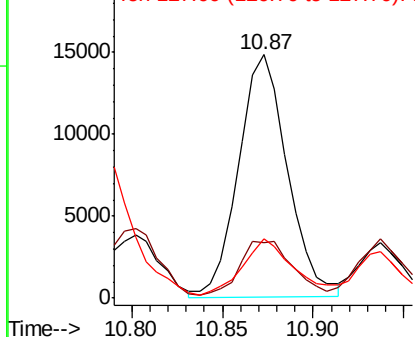


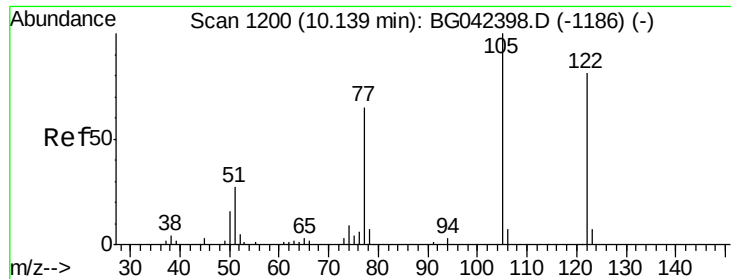
#31
Naphthalene
Concen: 2.892 ng
RT: 10.87 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Tgt Ion	128	Resp	27808
Ion Ratio	Lower	Upper	
128	100		
129	22.7	8.8	13.2#
127	24.3	11.4	17.0#



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

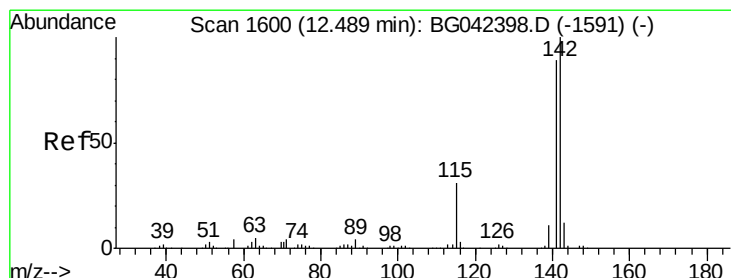
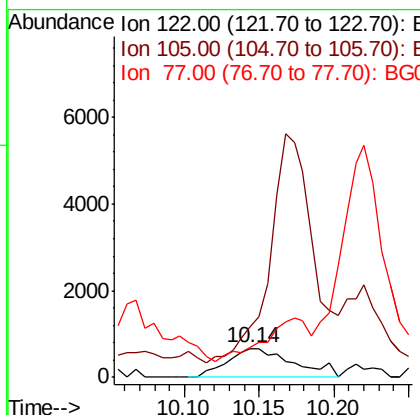
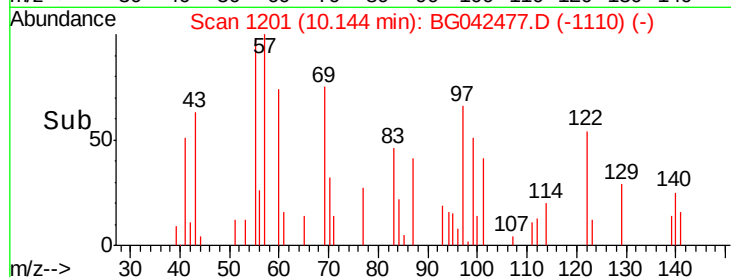
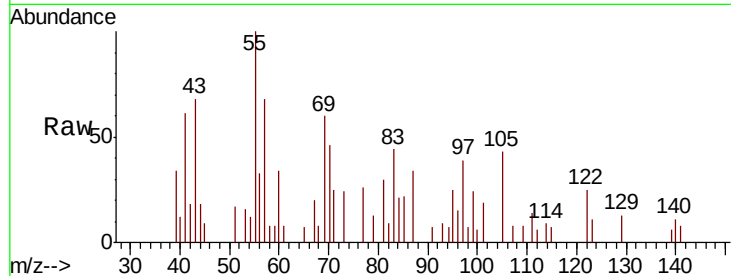




#32
Benzoic acid
Concen: 9.049 ng
RT: 10.14 min Scan# 1201
Delta R.T. 0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

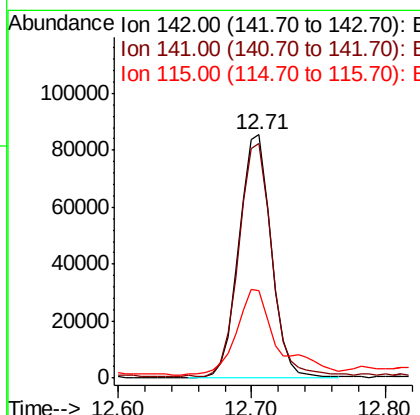
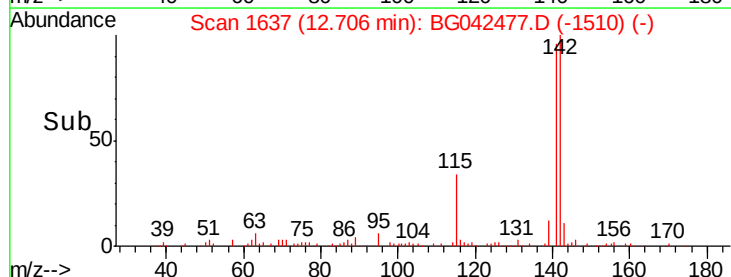
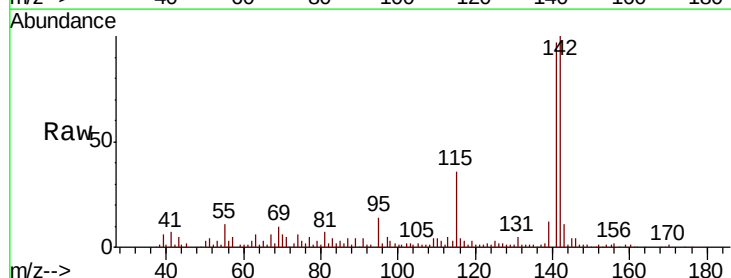
Instrument :
BNA_G
ClientSampled :

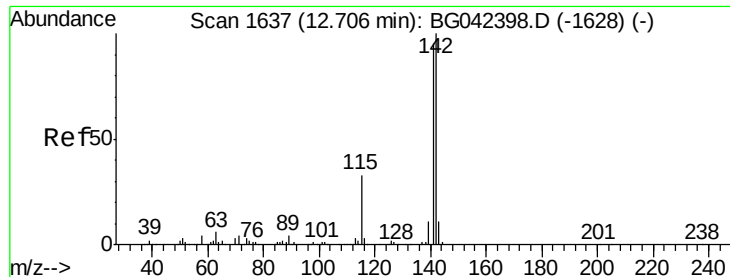
Tot Ion:122 Resp: 2016
Ion Ratio Lower Upper
122 100
105 174.3 99.6 139.6#
77 104.8 59.5 99.5#



#37
2-Methylnaphthalene
Concen: 18.425 ng
RT: 12.71 min Scan# 1637
Delta R.T. 0.22 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Tgt Ion:142 Resp: 142264
Ion Ratio Lower Upper
142 100
141 96.6 71.4 107.2
115 35.7 25.2 37.8

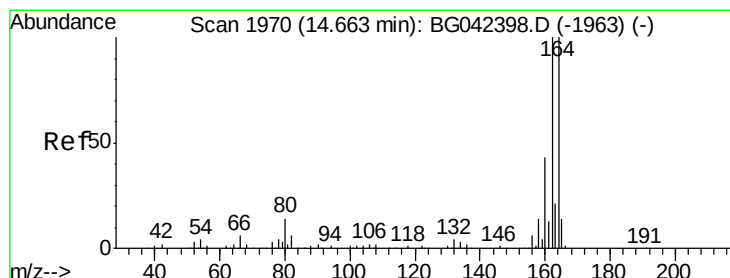
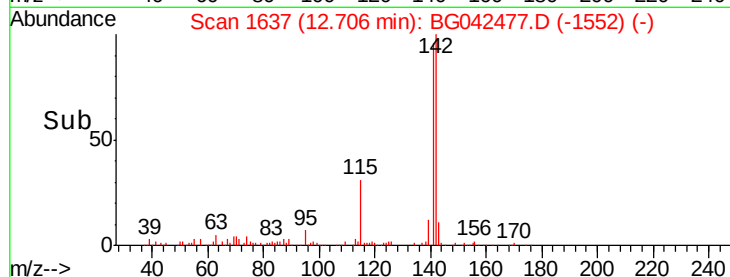
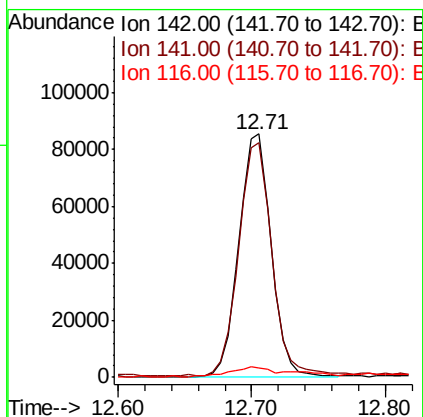
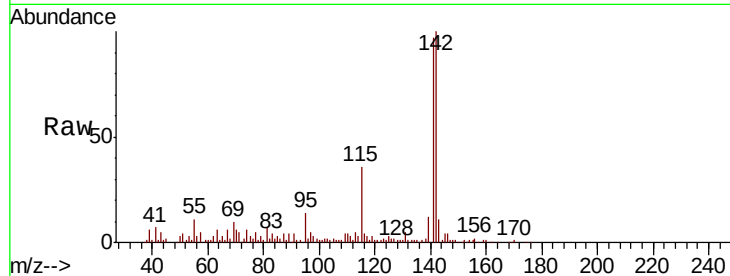




#38
1-Methylnaphthalene
Concen: 19.398 ng
RT: 12.71 min Scan# 1637
Delta R.T. -0.00 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

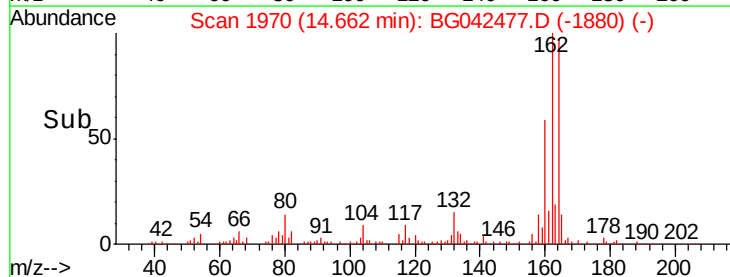
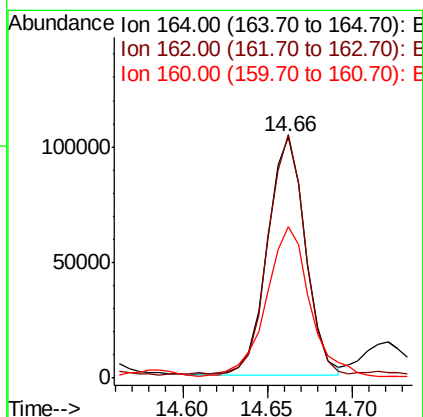
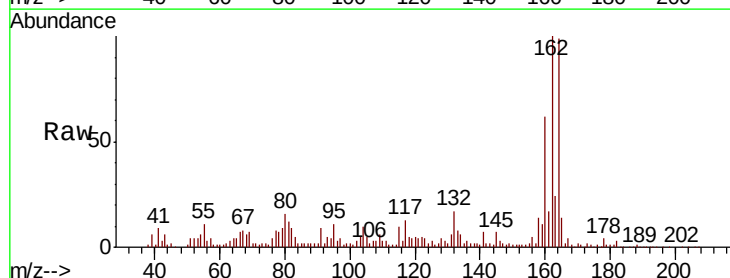
Instrument :
BNA_G
ClientSampled :

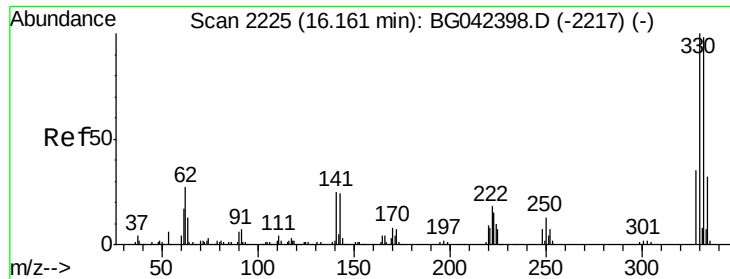
Tot Ion:142 Resp: 142264
Ion Ratio Lower Upper
142 100
141 96.6 76.2 114.2
116 3.9 2.8 4.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1970
Delta R.T. -0.00 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Tgt Ion:164 Resp: 159553
Ion Ratio Lower Upper
164 100
162 101.0 79.9 119.9
160 62.6 34.3 51.5#

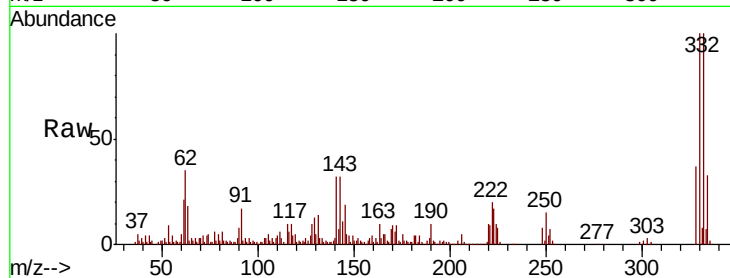




#42
 2,4,6-Tribromophenol
 Concen: 133.188 ng
 RT: 16.16 min Scan# 2225
 Delta R.T. -0.00 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.4	116.0
141	29.4	21.4	32.0

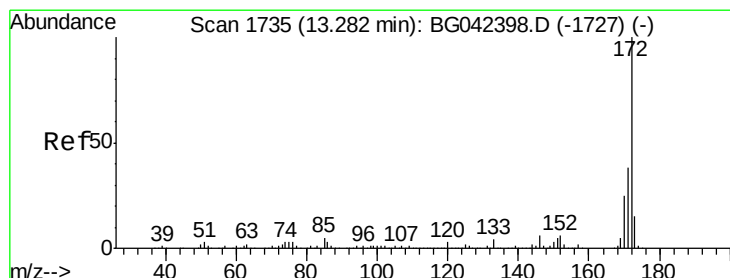
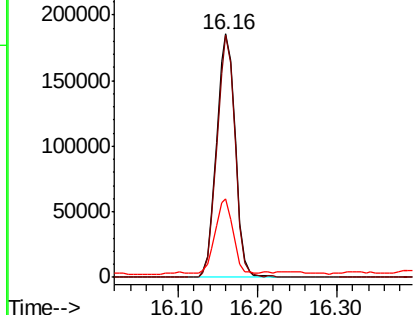
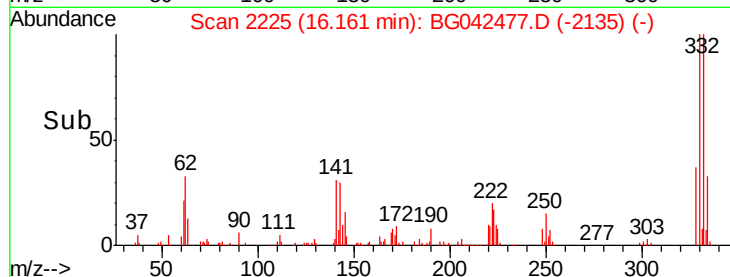


Abundance

Ion 329.80 (329.50 to 330.50): E

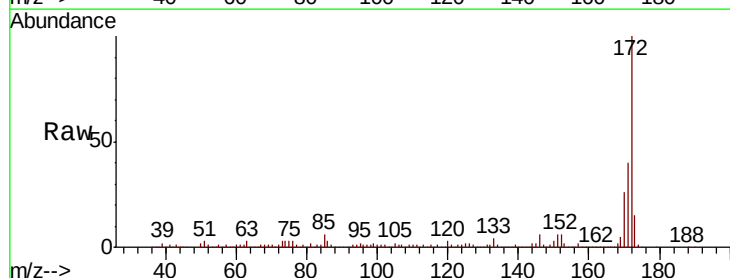
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 92.880 ng
 RT: 13.28 min Scan# 1735
 Delta R.T. -0.00 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.5	30.5	45.7
170	26.0	20.2	30.2

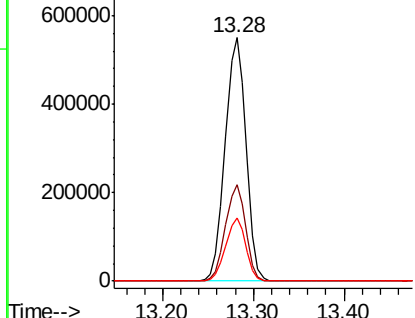
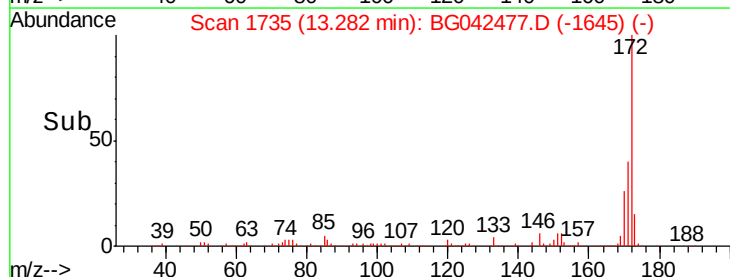


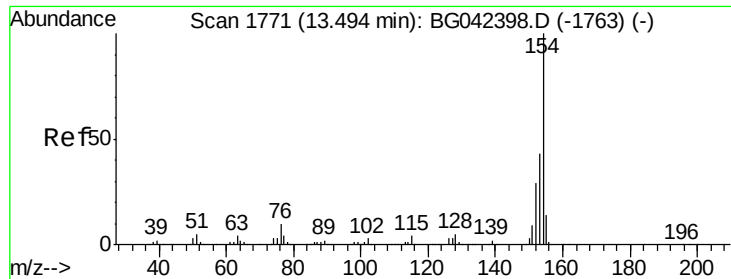
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#46

1,1'-Biphenyl

Concen: 5.963 ng

RT: 13.49 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampled :

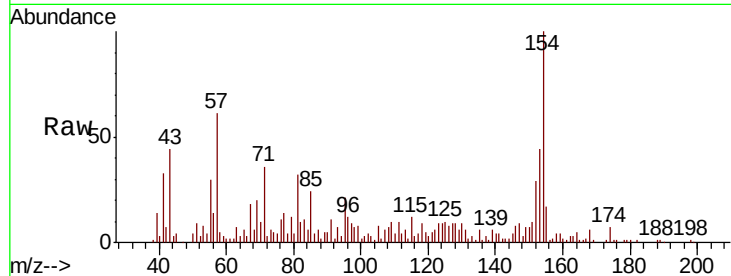
Tot Ion:154 Resp: 61499

Ion Ratio Lower Upper

154 100

153 44.4 23.0 63.0

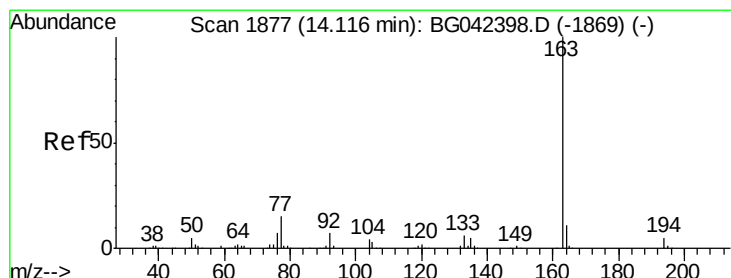
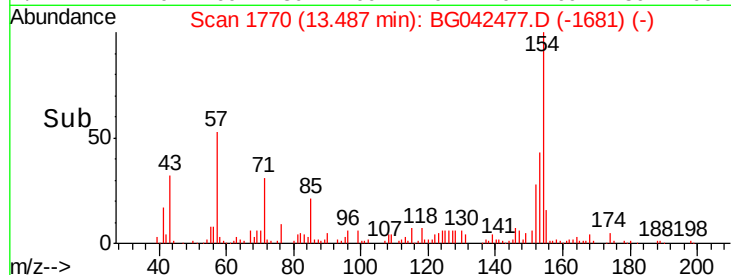
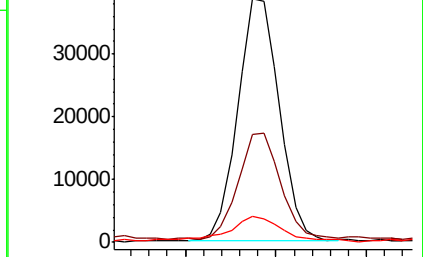
76 10.6 0.0 29.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BGC



#50

Dimethylphthalate

Concen: 10.357 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

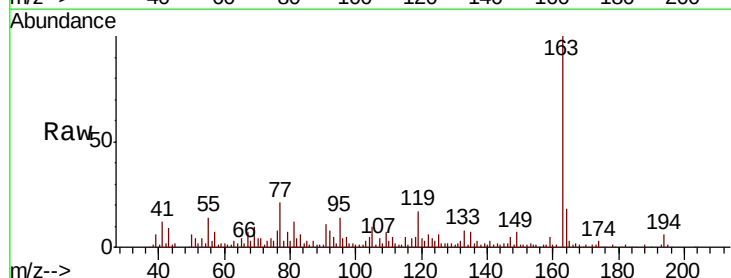
Tgt Ion:163 Resp: 119234

Ion Ratio Lower Upper

163 100

194 5.5 4.2 6.2

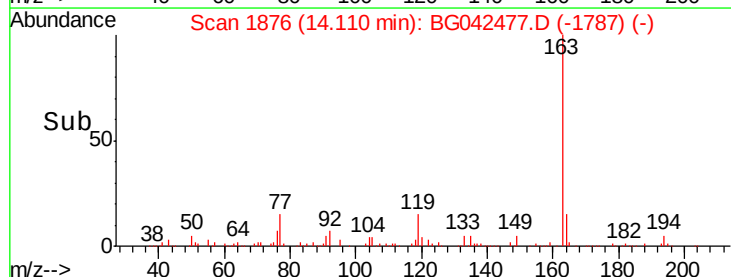
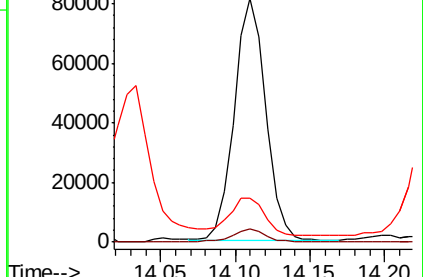
164 18.2 8.8 13.2#

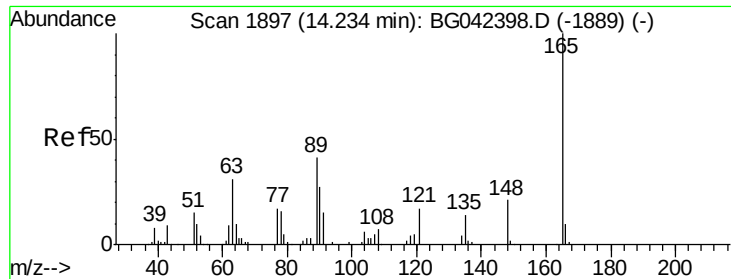


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

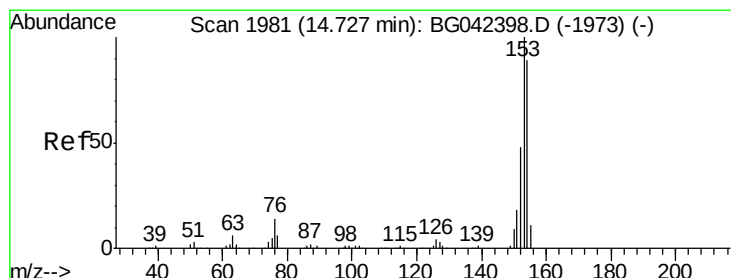
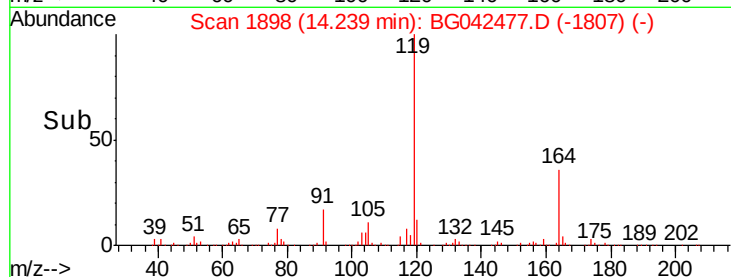
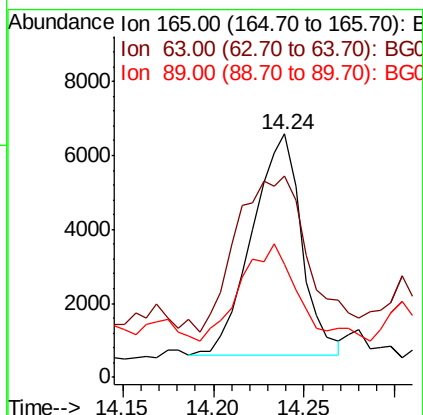
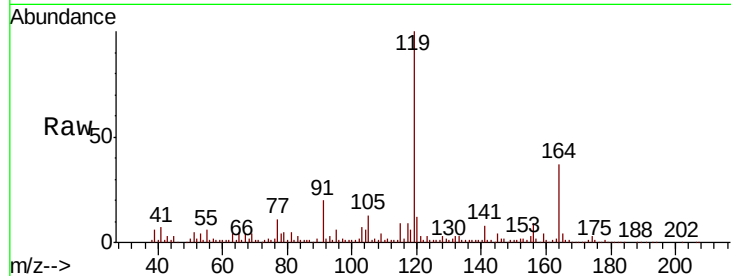




#51
 2,6-Dinitrotoluene
 Concen: 4.265 ng
 RT: 14.24 min Scan# 1898
 Delta R.T. 0.01 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

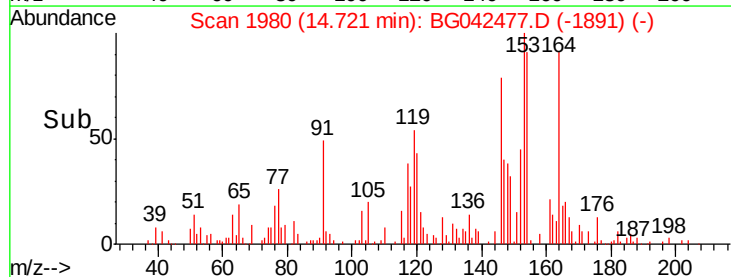
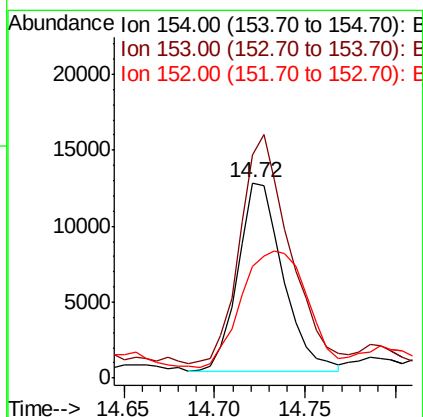
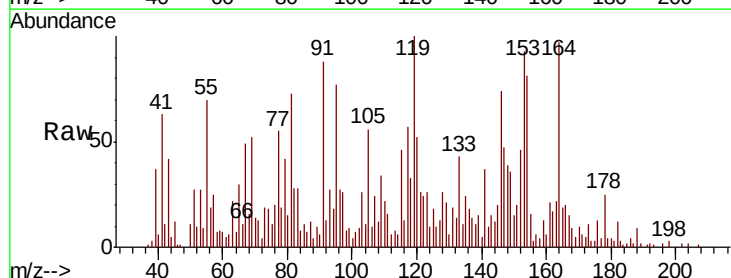
Instrument :
 BNA_G
 ClientSampled :

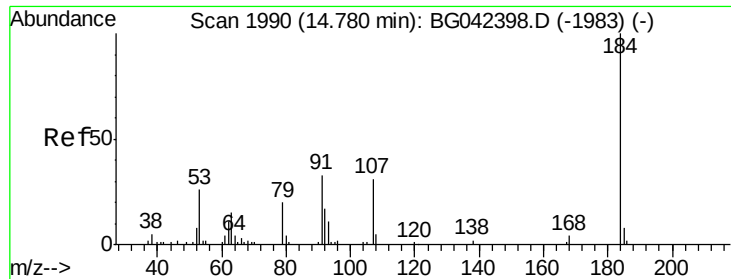
Tot Ion:165 Resp: 11381
 Ion Ratio Lower Upper
 165 100
 63 82.5 30.6 45.8#
 89 46.6 32.6 49.0



#52
 Acenaphthene
 Concen: 2.666 ng
 RT: 14.72 min Scan# 1980
 Delta R.T. -0.01 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

Tgt Ion:154 Resp: 21657
 Ion Ratio Lower Upper
 154 100
 153 114.3 90.2 135.4
 152 57.1 43.2 64.8

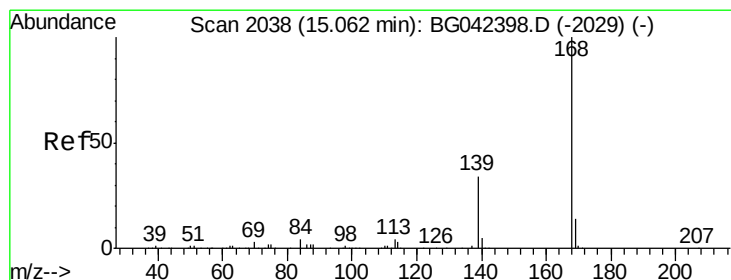
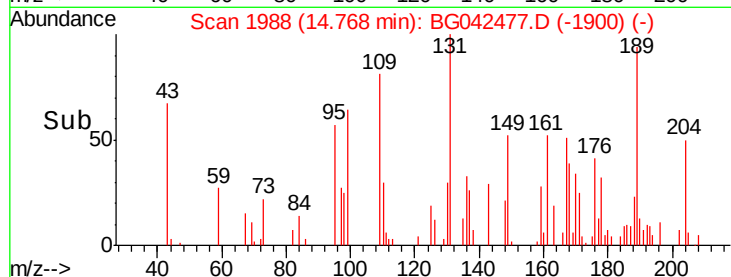
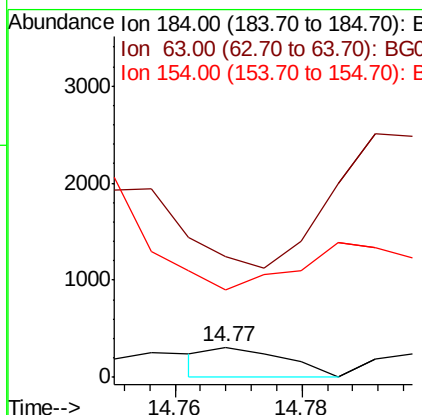
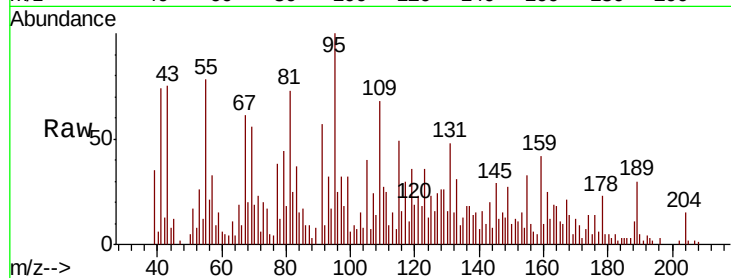




#54
 2,4-Dinitrophenol
 Concen: 6.390 ng
 RT: 14.77 min Scan# 1988
 Delta R.T. -0.01 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

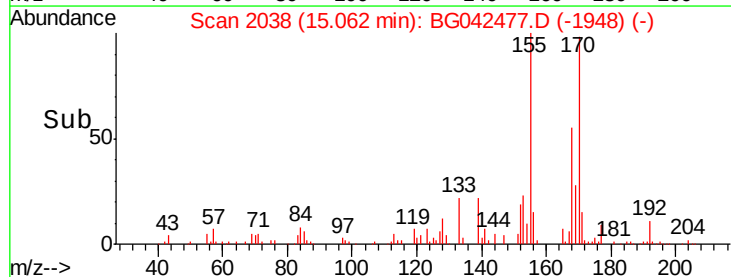
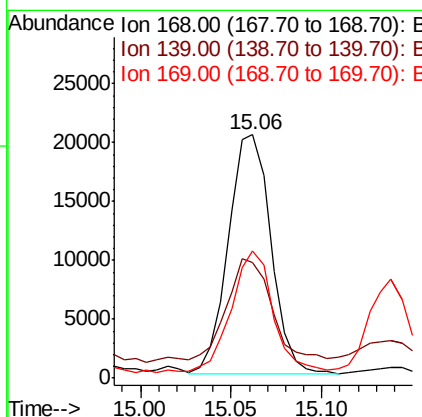
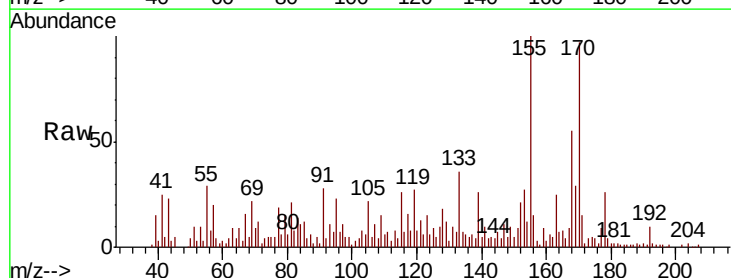
Instrument :
 BNA_G
 ClientSampled :

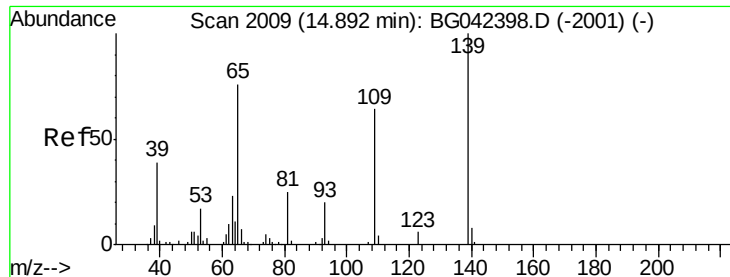
Tot Ion:184 Resp: 251
 Ion Ratio Lower Upper
 184 100
 63 400.6 31.7 47.5#
 154 289.7 42.0 63.0#



#55
 Dibenzofuran
 Concen: 2.446 ng
 RT: 15.06 min Scan# 2038
 Delta R.T. -0.00 min
 Lab File: BG042477.D
 Acq: 25 Aug 2019 14:30

Tgt Ion:168 Resp: 32891
 Ion Ratio Lower Upper
 168 100
 139 47.3 27.2 40.8#
 169 52.4 11.5 17.3#





#56

4-Nitrophenol

Concen: 2.947 ng

RT: 14.87 min Scan# 2006

Delta R.T. -0.02 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampleId :

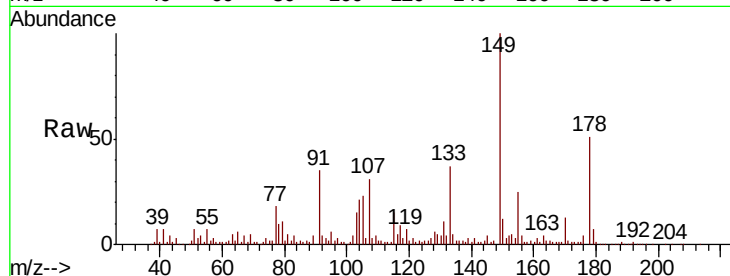
Tot Ion:139 Resp: 5588

Ion Ratio Lower Upper

139 100

109 153.3 43.9 83.9#

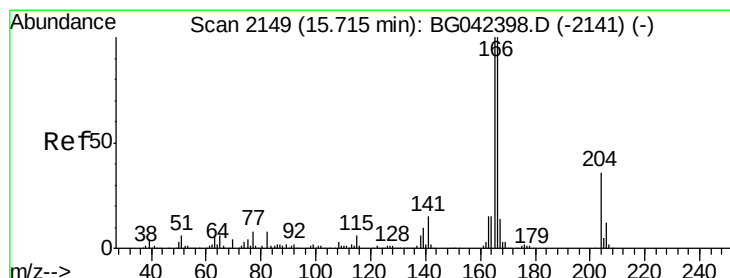
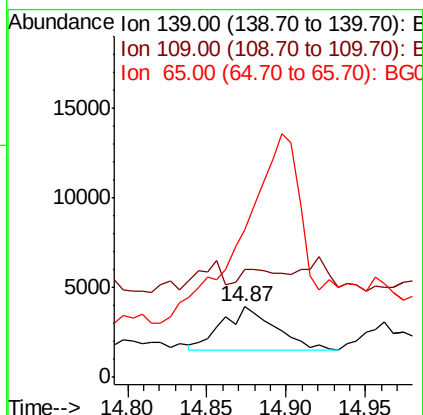
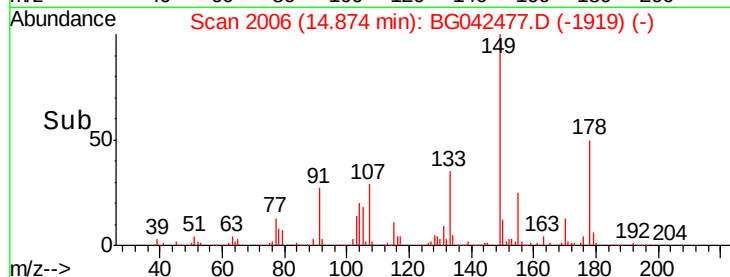
65 209.3 56.3 96.3#



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): B



#58

Fluorene

Concen: 4.471 ng

RT: 15.71 min Scan# 2148

Delta R.T. -0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

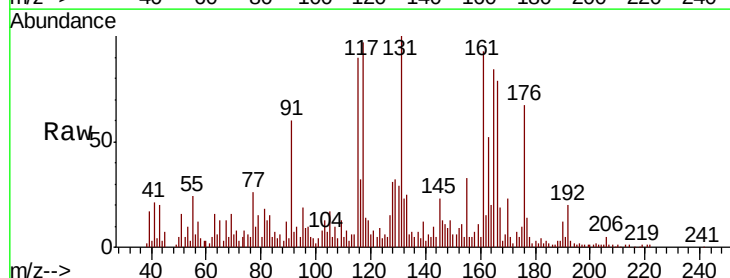
Tgt Ion:166 Resp: 49151

Ion Ratio Lower Upper

166 100

165 105.7 79.7 119.5

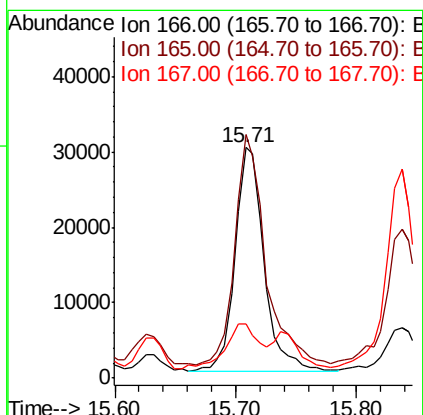
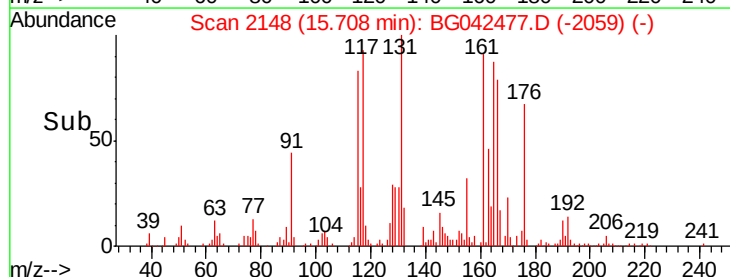
167 23.5 10.9 16.3#

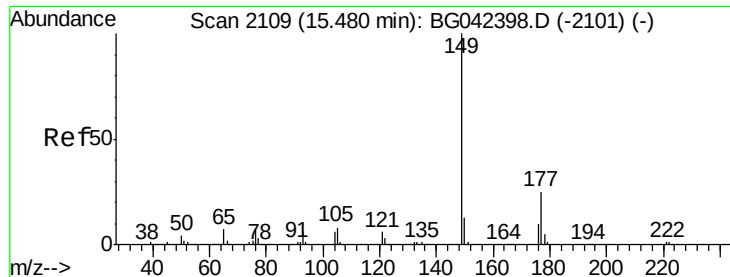


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

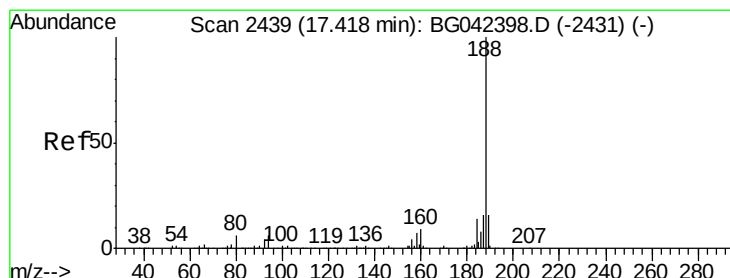
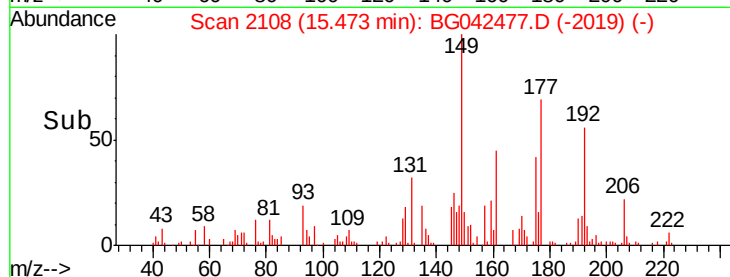
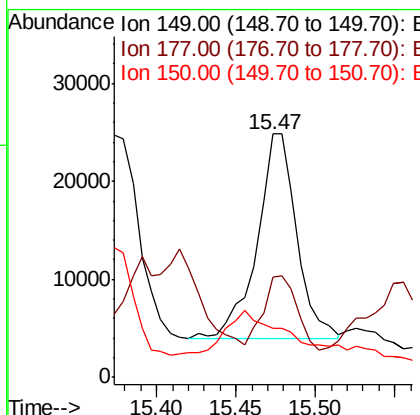
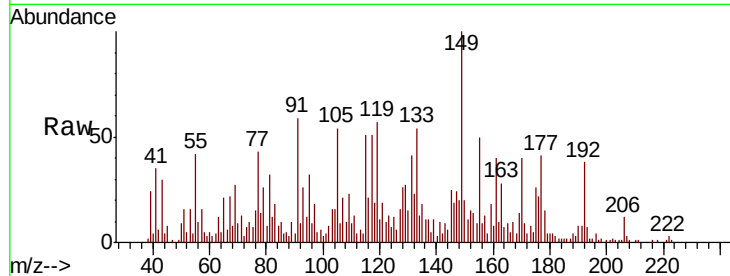




#60
Diethylphthalate
Concen: 3.235 ng
RT: 15.47 min Scan# 2108
Delta R.T. -0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

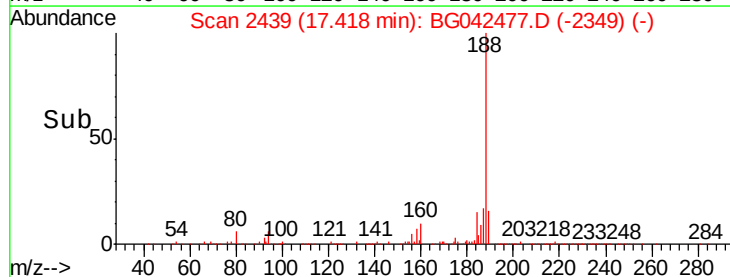
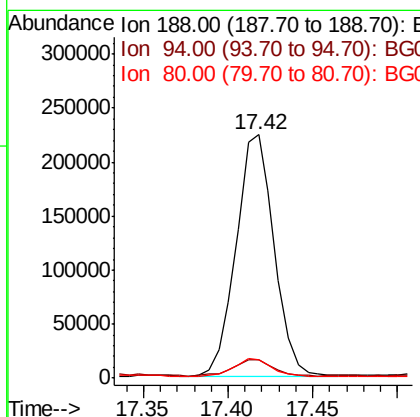
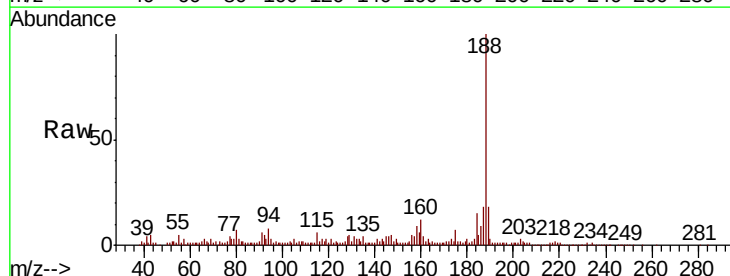
Instrument :
BNA_G
ClientSampled :

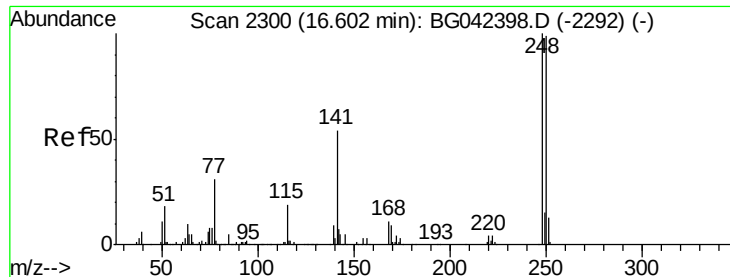
Tot Ion:149 Resp: 36411
Ion Ratio Lower Upper
149 100
177 41.1 20.4 30.6#
150 20.2 10.3 15.5#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.42 min Scan# 2439
Delta R.T. -0.00 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Tgt Ion:188 Resp: 348827
Ion Ratio Lower Upper
188 100
94 7.5 4.5 6.7#
80 7.4 4.9 7.3#





#67

4-Bromophenyl-phenylether

Concen: 4.905 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.44 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampleId :

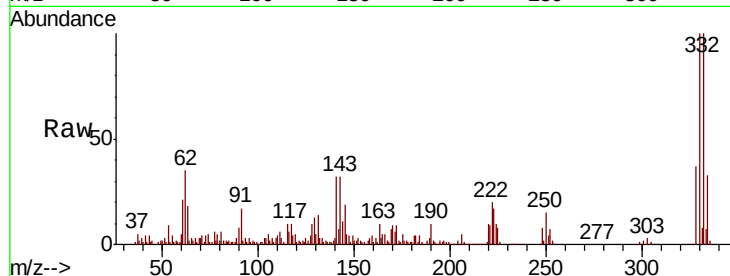
Tot Ion:248 Resp: 21701

Ion Ratio Lower Upper

248 100

250 193.8 78.9 118.3#

141 424.3 43.3 64.9#

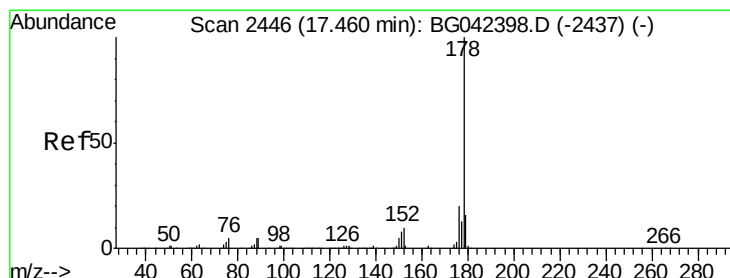
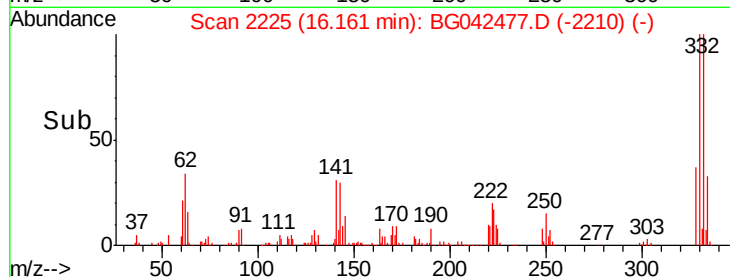
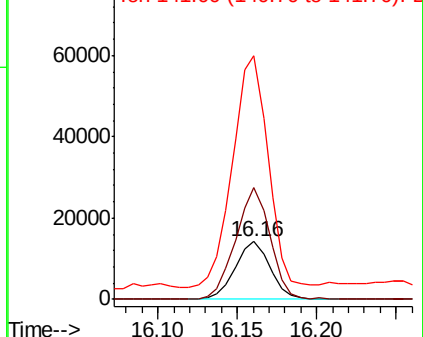


Abundance

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



#71

Phenanthrene

Concen: 5.935 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

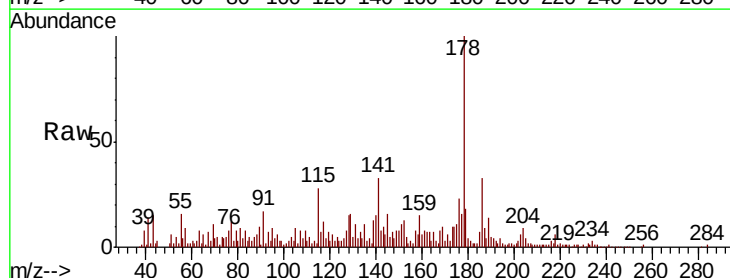
Tgt Ion:178 Resp: 102843

Ion Ratio Lower Upper

178 100

176 22.7 15.9 23.9

179 18.0 12.7 19.1

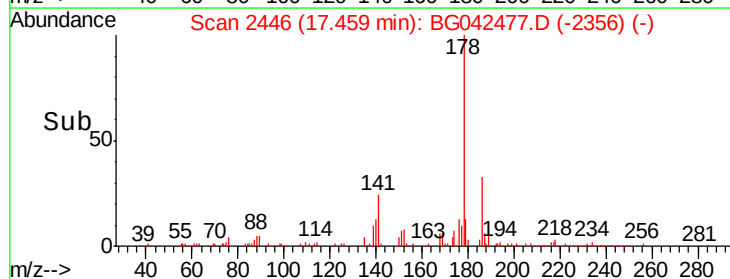
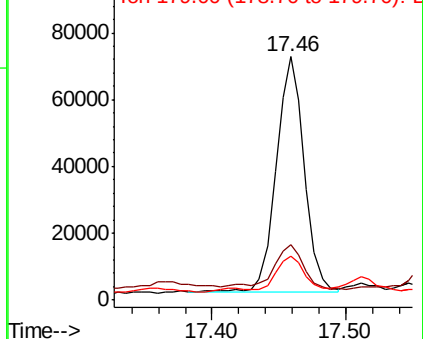


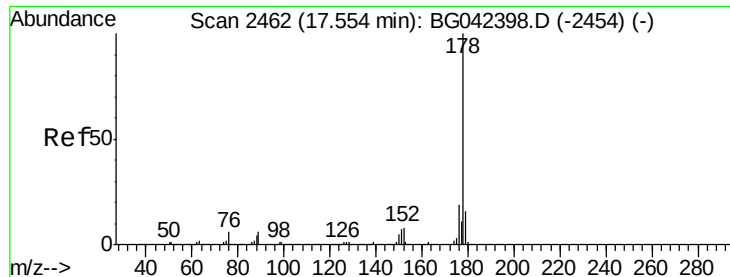
Abundance

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

Anthracene

Concen: 5.946 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.09 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampleId :

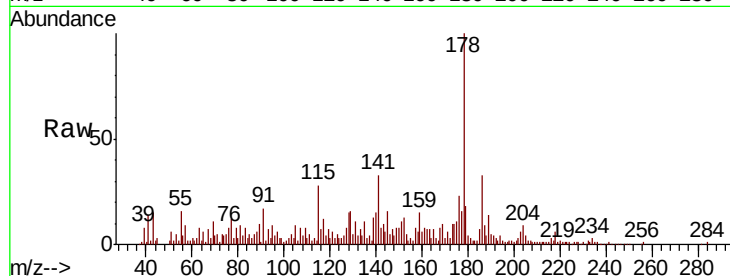
Tot Ion:178 Resp: 102843

Ion Ratio Lower Upper

178 100

176 22.7 15.5 23.3

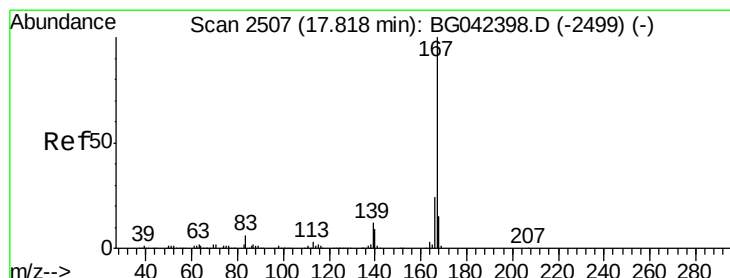
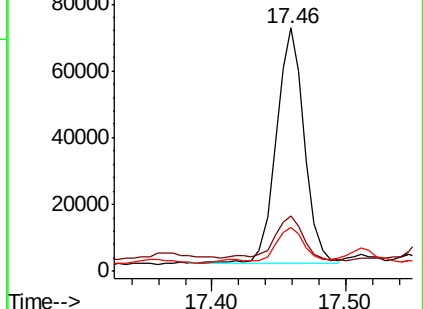
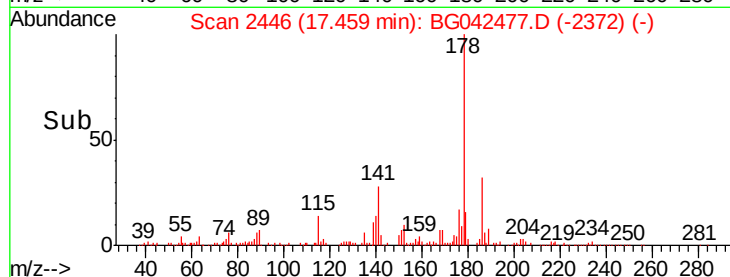
179 18.0 12.9 19.3



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



#73

Carbazole

Concen: 25.740 ng

RT: 17.82 min Scan# 2508

Delta R.T. 0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

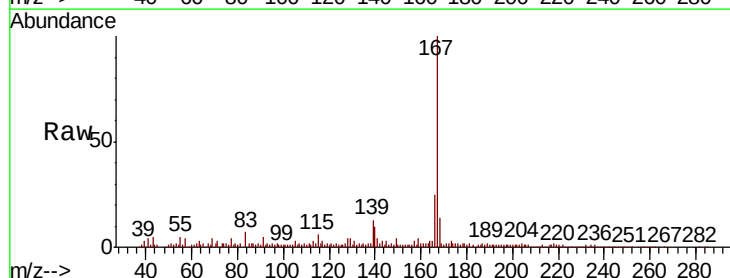
Tgt Ion:167 Resp: 396813

Ion Ratio Lower Upper

167 100

166 24.7 18.9 28.3

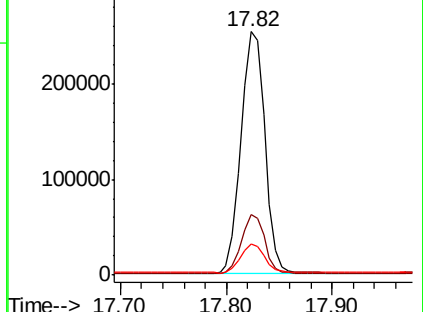
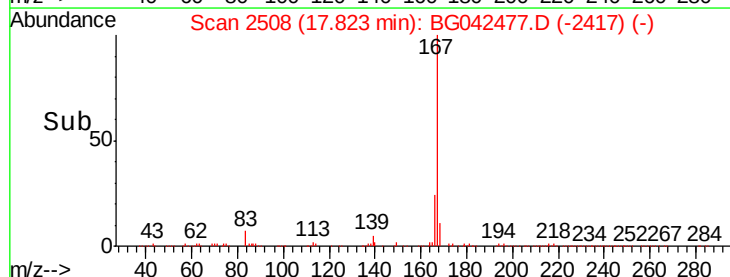
139 12.8 9.8 14.6

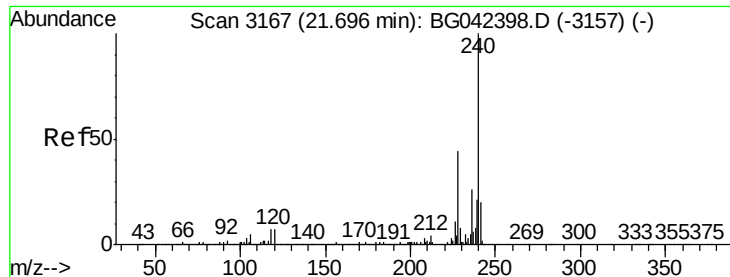


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

Instrument :

BNA_G

ClientSampleId :

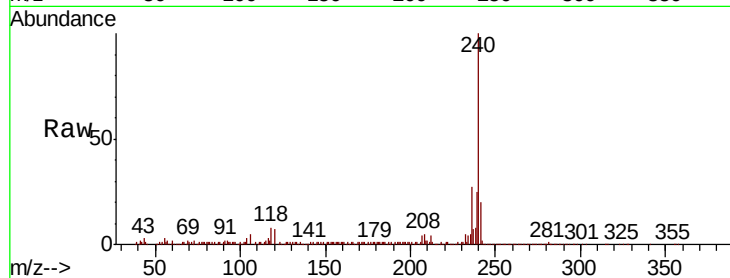
Tot Ion:240 Resp: 379603

Ion Ratio Lower Upper

240 100

120 7.0 5.7 8.5

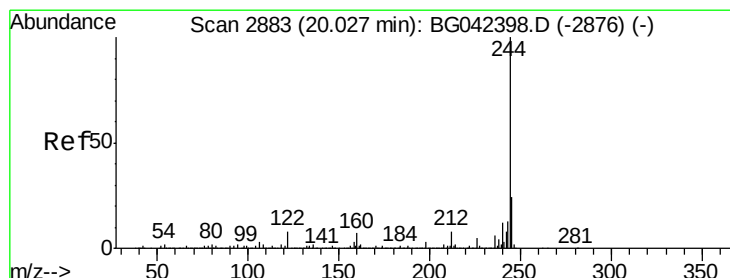
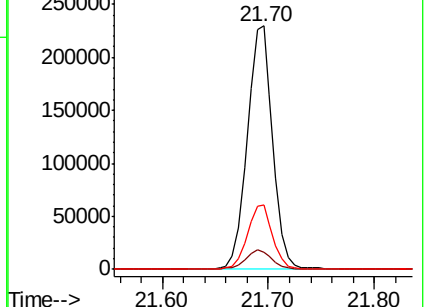
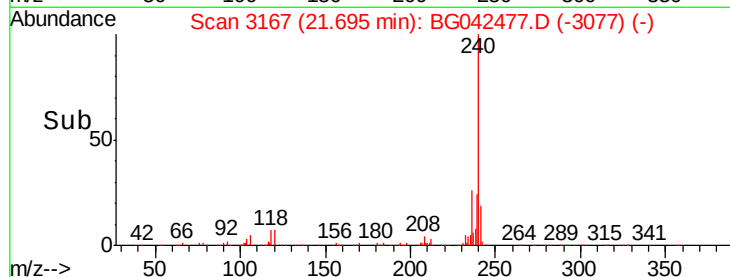
236 26.6 21.0 31.4



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



#79

Terphenyl-d14

Concen: 80.592 ng

RT: 20.03 min Scan# 2884

Delta R.T. 0.01 min

Lab File: BG042477.D

Acq: 25 Aug 2019 14:30

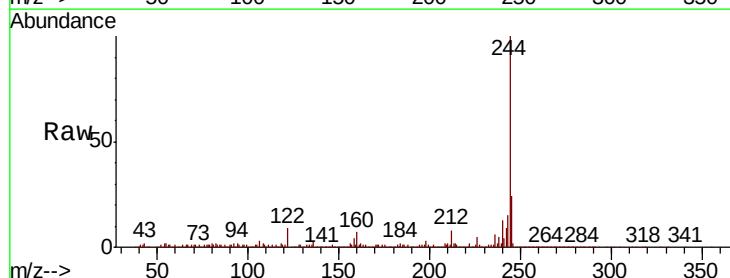
Tgt Ion:244 Resp: 1415087

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

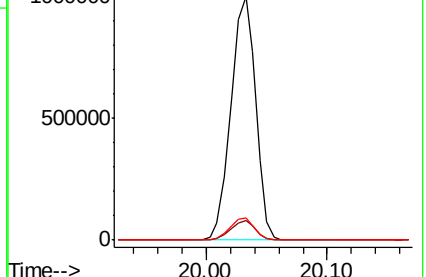
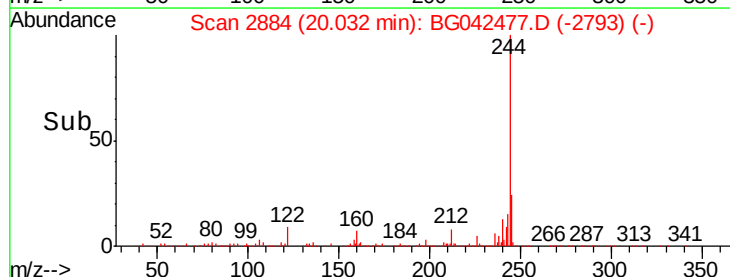
122 9.1 6.7 10.1

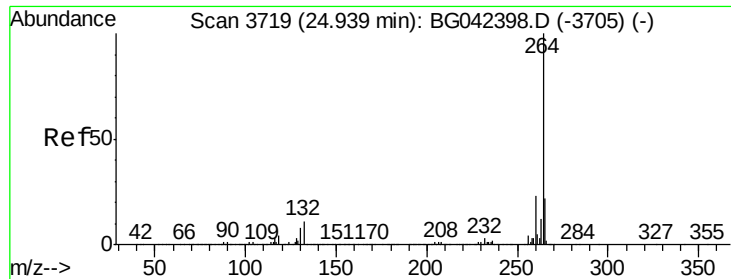


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87
Pervlene-d12
Concen: 20.000 ng
RT: 24.93 min Scan# 3718
Delta R.T. -0.01 min
Lab File: BG042477.D
Acq: 25 Aug 2019 14:30

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
264	100			
260	23.2	18.5	27.7	
265	22.6	17.6	26.4	

