

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082719\
 Data File : BG042518.D
 Acq On : 28 Aug 2019 00:00
 Operator : HP/JU
 Sample : K4516-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 28 01:30:13 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	38945	20.00	ng	0.00
21) Naphthalene-d8	10.82	136	143360	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	103184	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	251029	20.00	ng	0.00
76) Chrysene-d12	21.69	240	311709	20.00	ng	0.00
87) Perylene-d12	24.92	264	376986	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.56	112	289453	150.53	ng	0.00
7) Phenol-d6	7.16	99	384550	148.05	ng	0.00
23) Nitrobenzene-d5	9.17	82	223479	107.72	ng	0.00
42) 2,4,6-Tribromophenol	16.15	330	250225	170.62	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	656961	107.68	ng	0.00
79) Terphenyl-d14	20.02	244	1263281	87.62	ng	0.00

Target Compounds

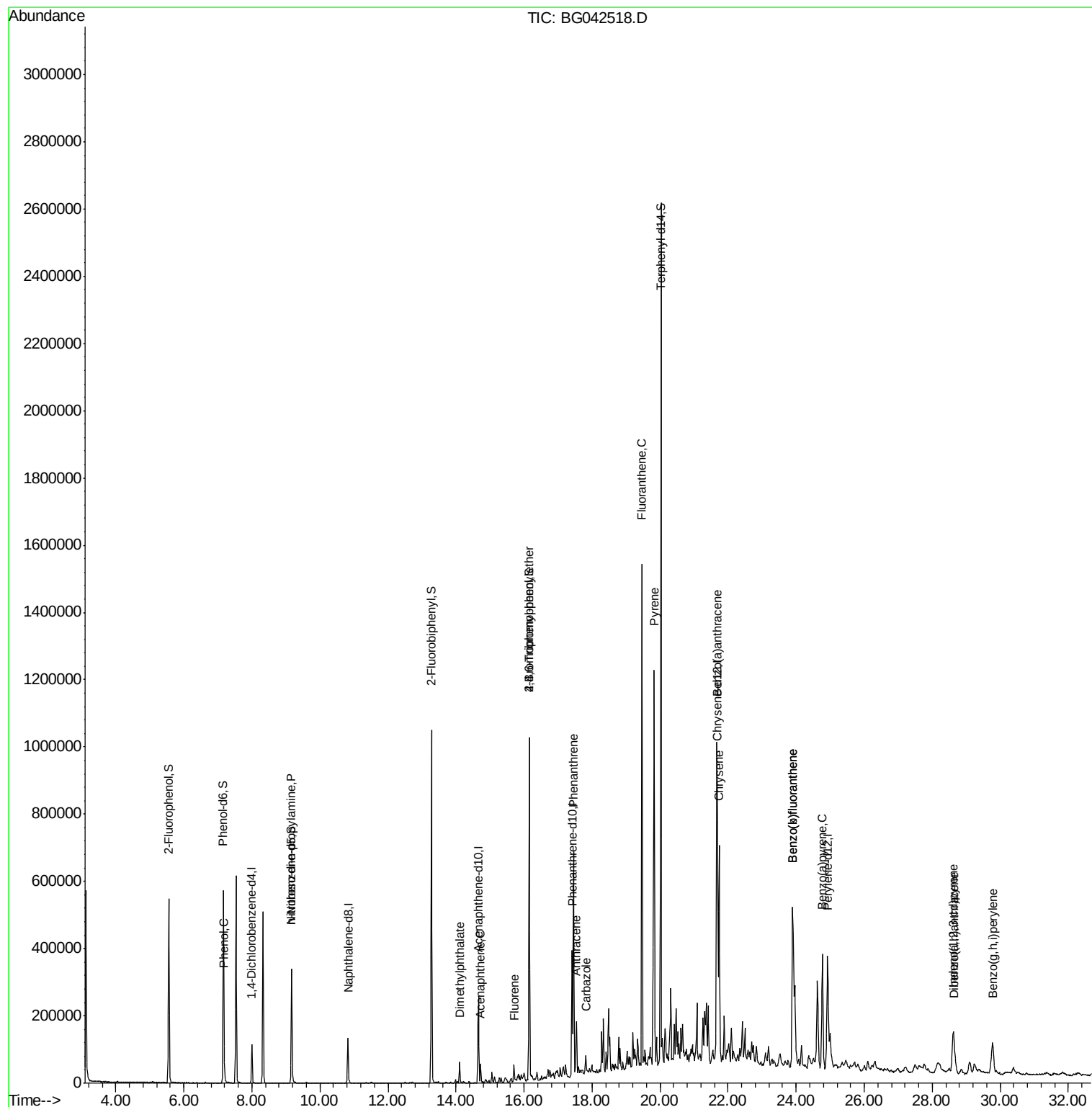
						Qvalue
10) Phenol	7.19	94	12222	4.628	ng	# 72
19) n-Nitroso-di-n-propylamine	9.17	70	28905	17.177	ng	# 74
50) Dimethylphthalate	14.11	163	54690	7.346	ng	97
52) Acenaphthene	14.72	154	24754	4.712	ng	99
58) Fluorene	15.71	166	22731	3.197	ng	97
67) 4-Bromophenyl-phenylether	16.15	248	17451	5.481	ng	# 1
71) Phenanthrene	17.45	178	464698	37.268	ng	99
72) Anthracene	17.54	178	109809	8.822	ng	100
73) Carbazole	17.81	167	32795	2.956	ng	98
75) Fluoranthene	19.47	202	975527	64.105	ng	99
78) Pyrene	19.83	202	868717	45.457	ng	99
81) Benzo(a)anthracene	21.67	228	576073	30.381	ng	98
83) Chrysene	21.73	228	479221	26.206	ng	98
86) Indeno(1,2,3-cd)pyrene	28.61	276	216575	8.715	ng	# 95
88) Benzo(b)fluoranthene	23.90	252	647608	31.247	ng	99
89) Benzo(k)fluoranthene	23.90	252	647608	32.508	ng	99
90) Benzo(a)pyrene	24.77	252	419443	21.328	ng	99
91) Dibenzo(a,h)anthracene	28.65	278	66239	3.326	ng	96
92) Benzo(a,h,i)perylene	29.77	276	195604	9.822	ng	98

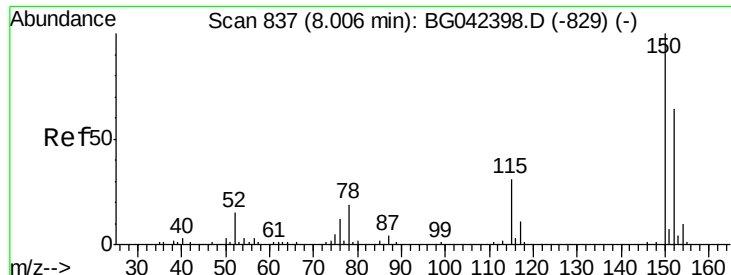
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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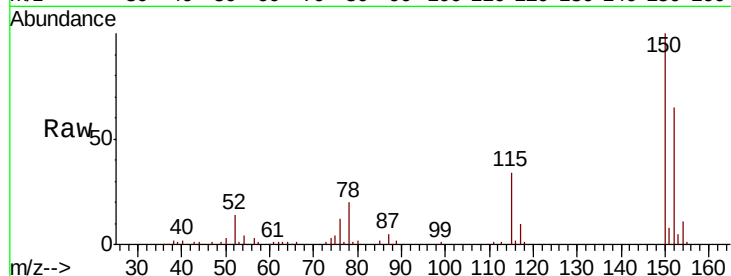


#1

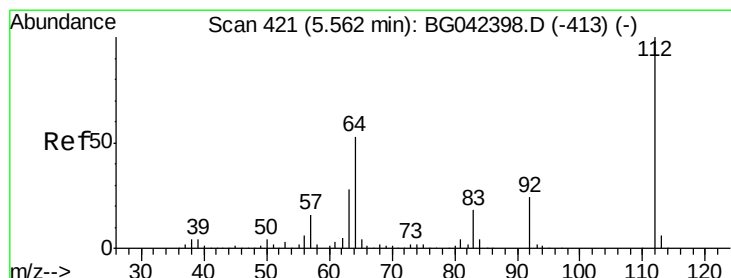
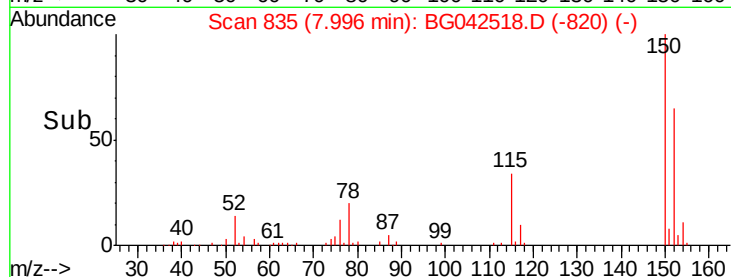
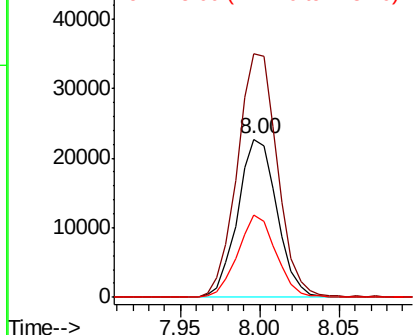
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 835
Delta R.T. -0.01 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Instrument :
BNA_G
ClientSampled :

Tot Ion:152 Resp: 38945
Ion Ratio Lower Upper
152 100
150 154.1 125.4 188.0
115 51.8 38.5 57.7



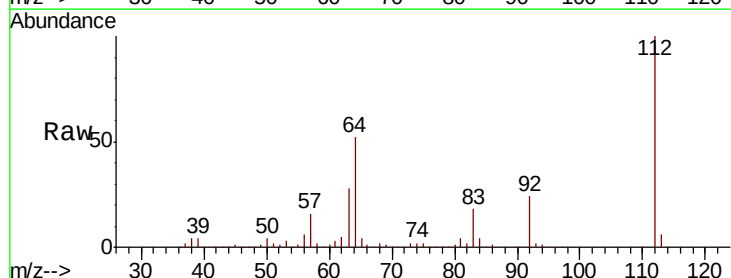
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



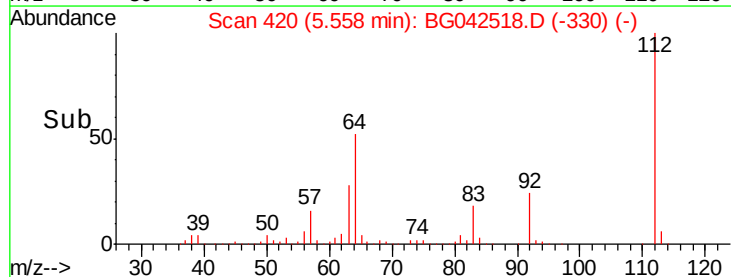
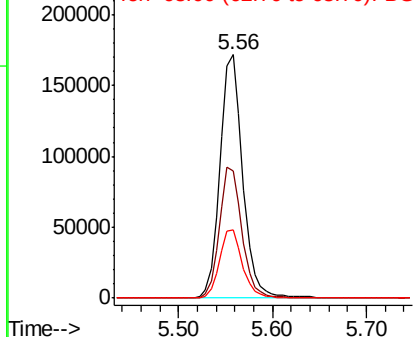
#5

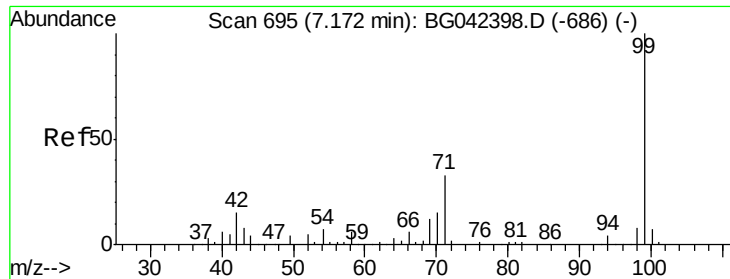
2-Fluorophenol
Concen: 150.527 ng
RT: 5.56 min Scan# 420
Delta R.T. -0.00 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Tgt Ion:112 Resp: 289453
Ion Ratio Lower Upper
112 100
64 52.0 42.8 64.2
63 27.8 22.7 34.1



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: 148.049 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

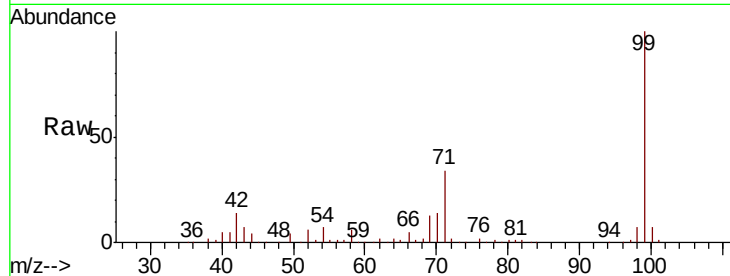
Instrument :

BNA_G

ClientSampled :

Tot Ion: 99 Resp: 384550

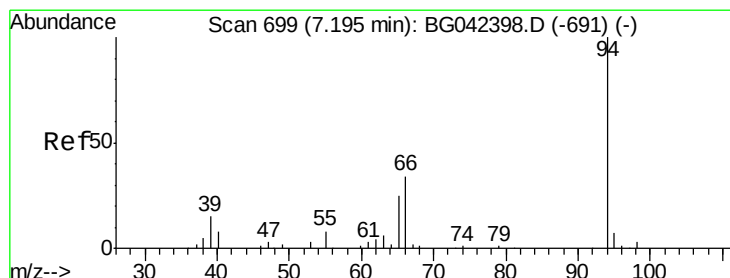
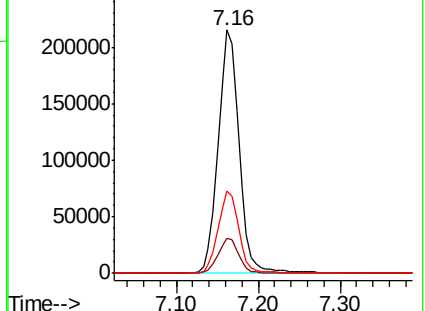
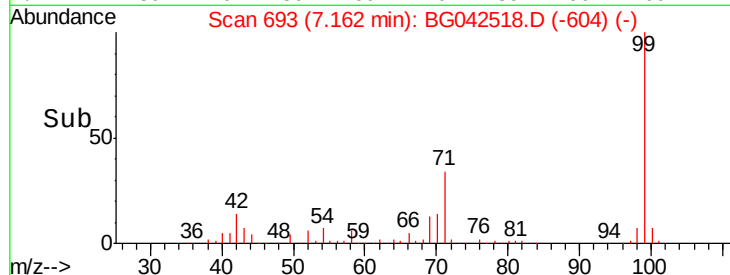
Ion	Ratio	Lower	Upper
99	100		
42	14.5	12.0	18.0
71	34.0	26.3	39.5



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: 4.628 ng

RT: 7.19 min Scan# 697

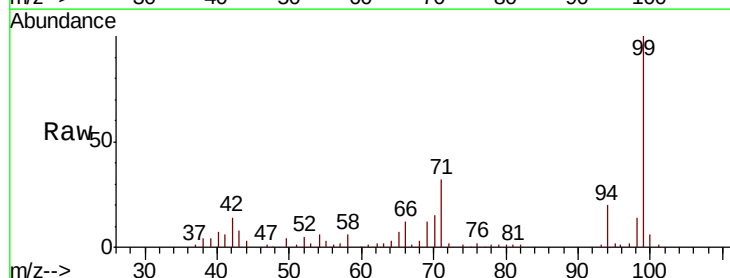
Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Tgt Ion: 94 Resp: 12222

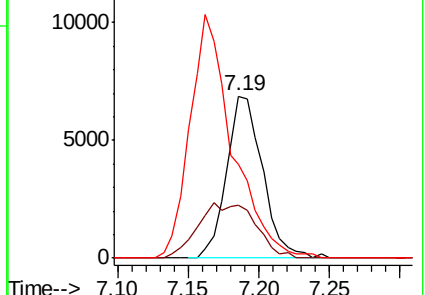
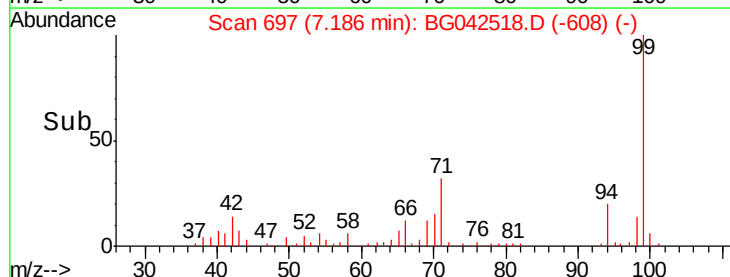
Ion	Ratio	Lower	Upper
94	100		
65	33.0	5.6	45.6
66	57.8	16.0	56.0#

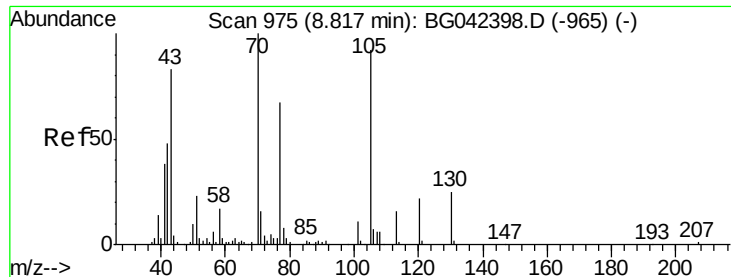


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 17.177 ng

RT: 9.17 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Instrument :

BNA_G

ClientSampled :

Tot Ion: 70 Resp: 28905

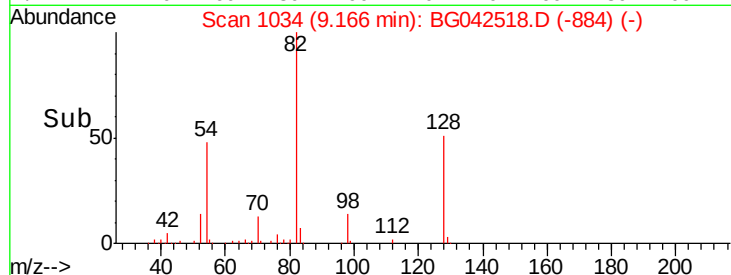
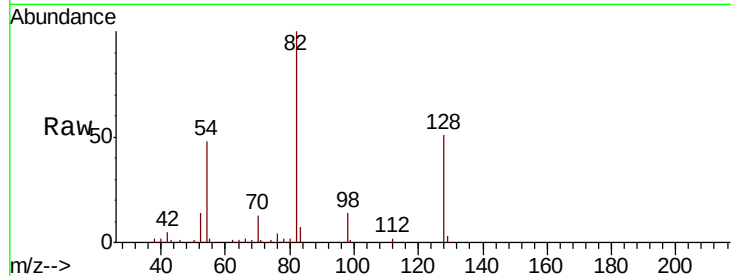
Ion Ratio Lower Upper

70 100

42 37.9 38.8 58.2#

101 0.0 9.0 13.6#

130 2.8 20.0 30.0#

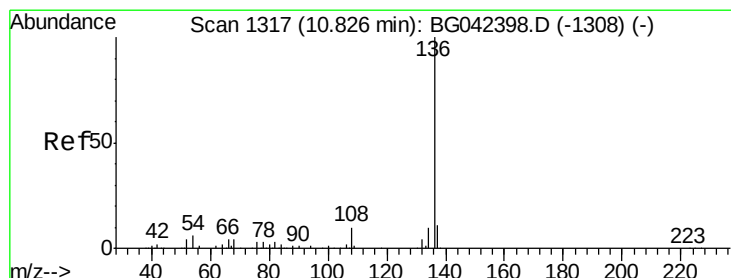
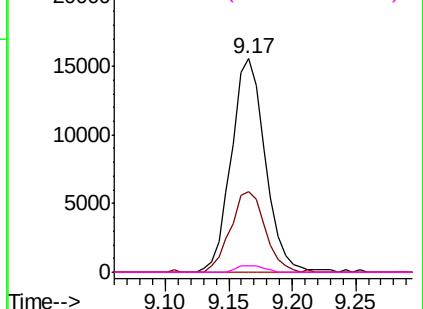


Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 10.82 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Tgt Ion: 136 Resp: 143360

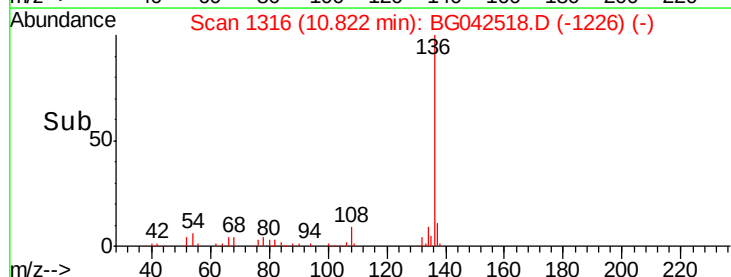
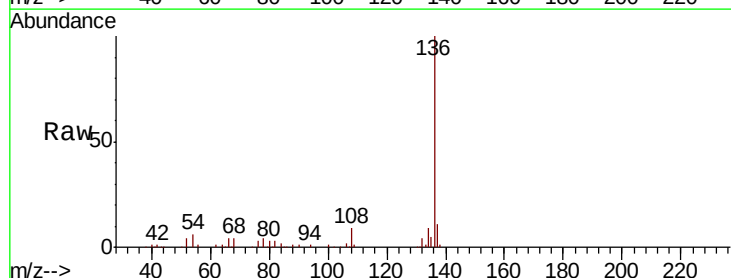
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 5.8 4.9 7.3

68 4.2 3.6 5.4

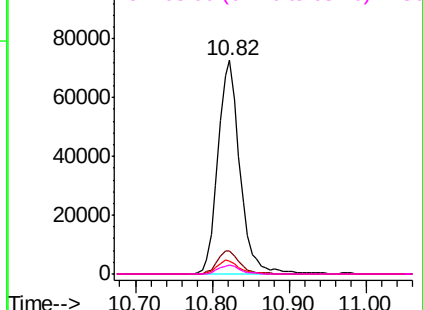


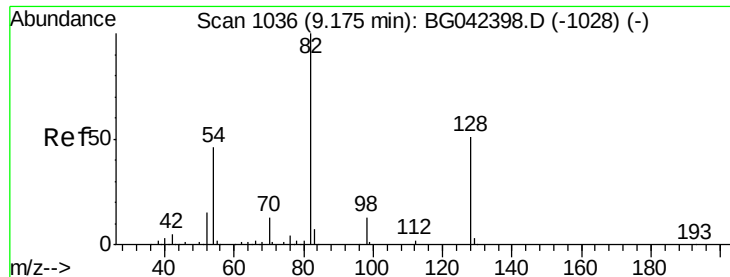
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

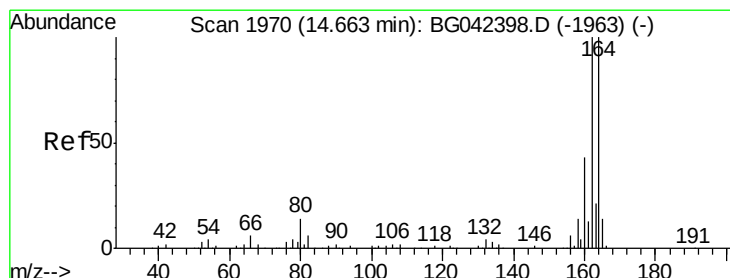
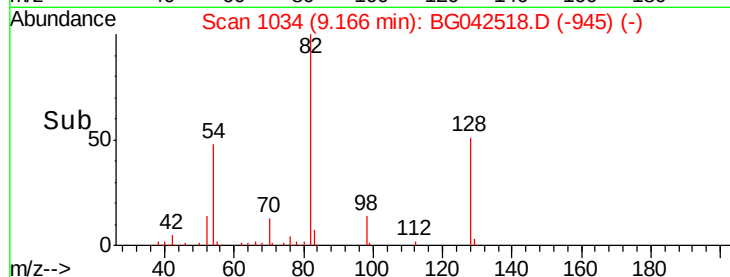
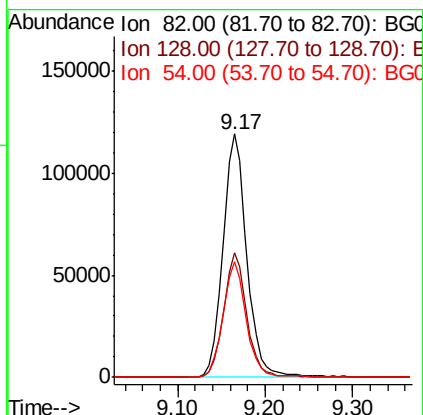
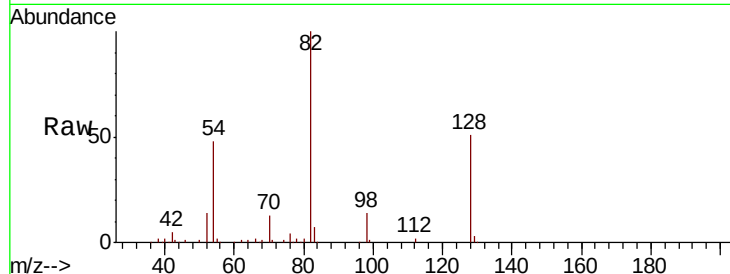




#23
 Nitrobenzene-d5
 Concen: 107.724 ng
 RT: 9.17 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

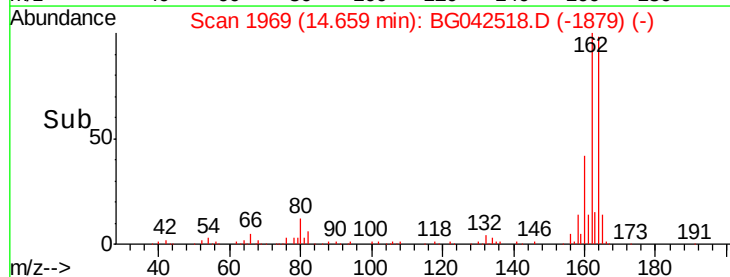
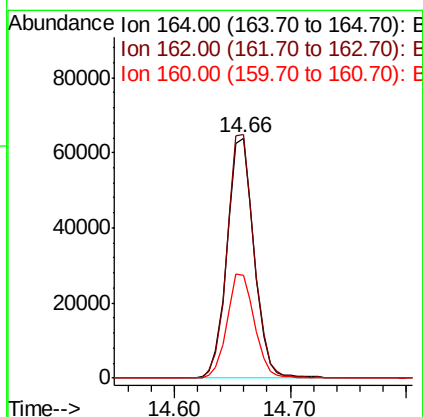
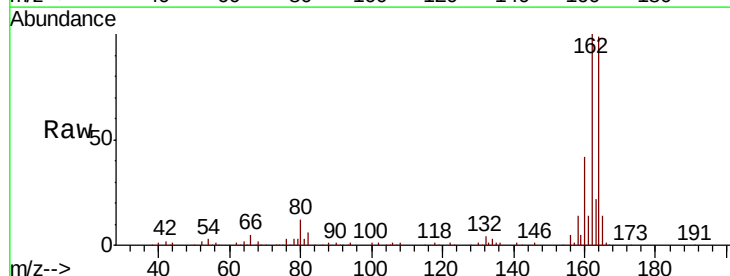
Instrument :
 BNA_G
 ClientSampleId :

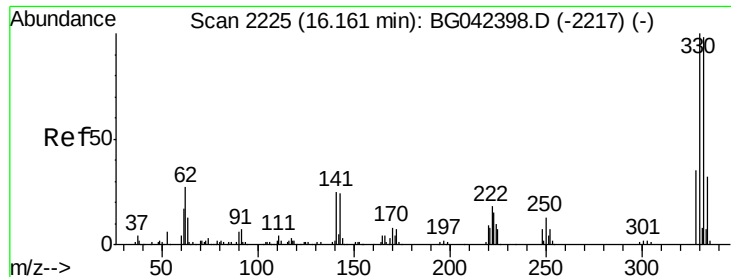
Tot Ion	82	Resp	223479
Ion Ratio	Lower	Upper	
82	100		
128	51.0	40.7	61.1
54	47.7	36.3	54.5



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.66 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Tgt Ion	164	Resp	103184
Ion Ratio	Lower	Upper	
164	100		
162	101.4	79.9	119.9
160	43.1	34.3	51.5





#42

2,4,6-Tribromophenol

Concen: 170.617 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Instrument :

BNA_G

ClientSampleId :

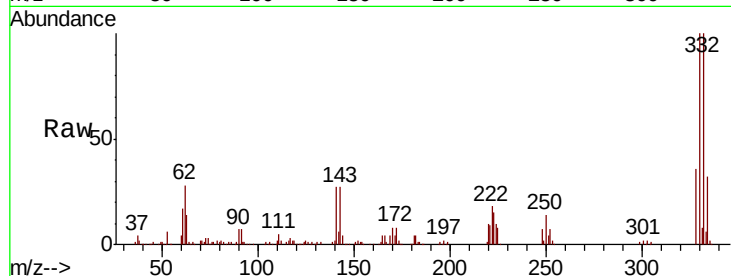
Tot Ion:330 Resp: 250225

Ion Ratio Lower Upper

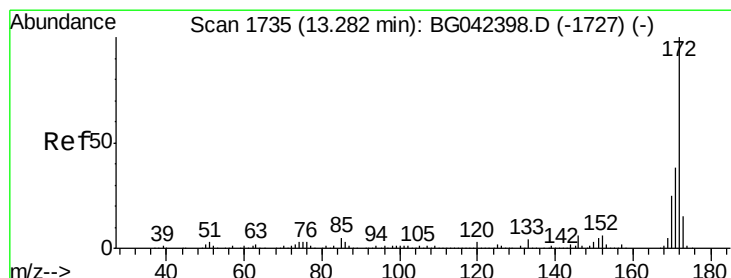
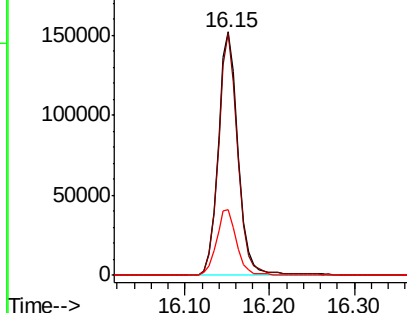
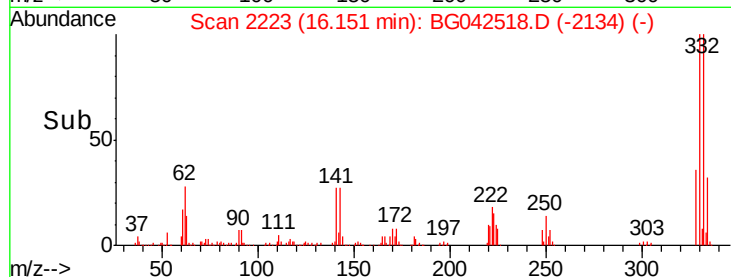
330 100

332 97.1 77.4 116.0

141 27.8 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: 107.682 ng

RT: 13.28 min Scan# 1734

Delta R.T. -0.00 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

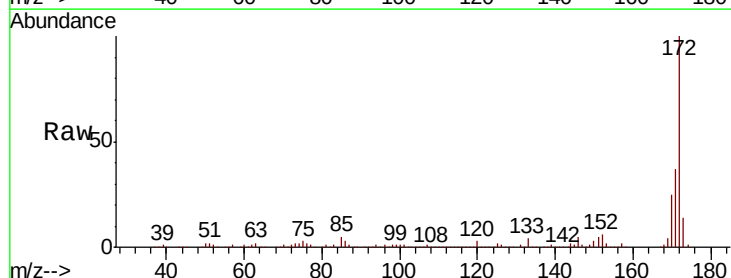
Tgt Ion:172 Resp: 656961

Ion Ratio Lower Upper

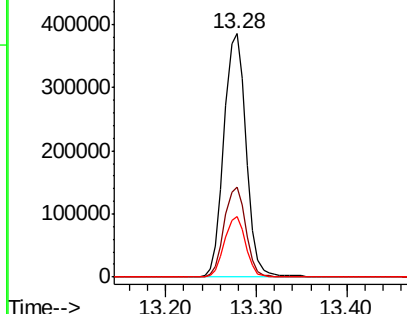
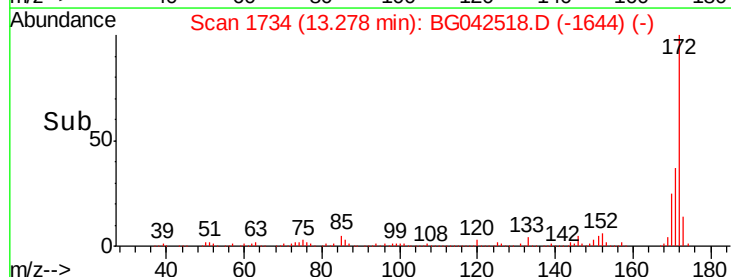
172 100

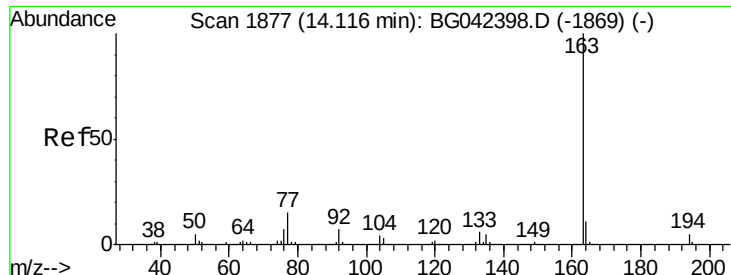
171 37.1 30.5 45.7

170 24.9 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

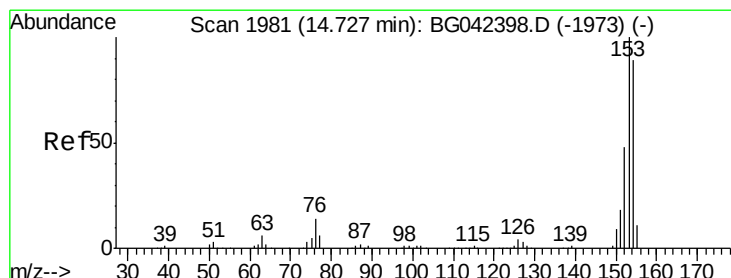
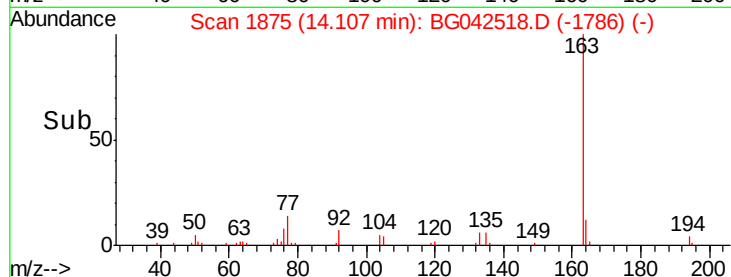
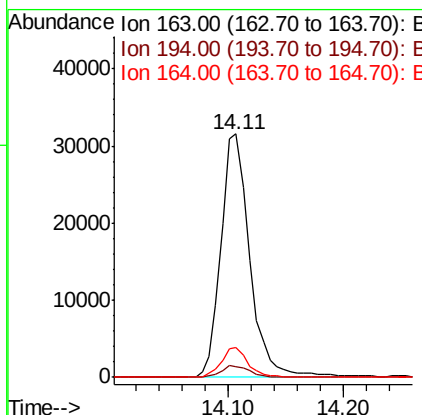
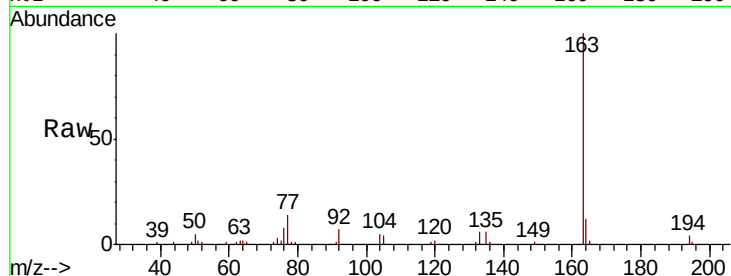




#50
Dimethylphthalate
Concen: 7.346 ng
RT: 14.11 min Scan# 1875
Delta R.T. -0.01 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

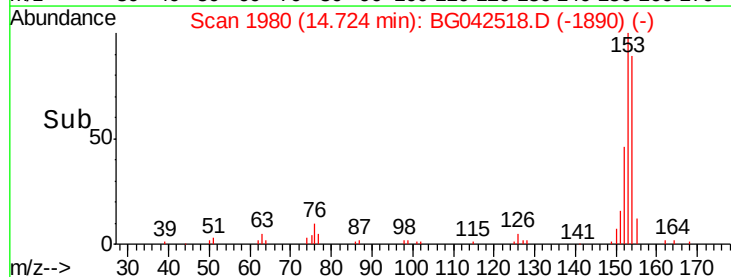
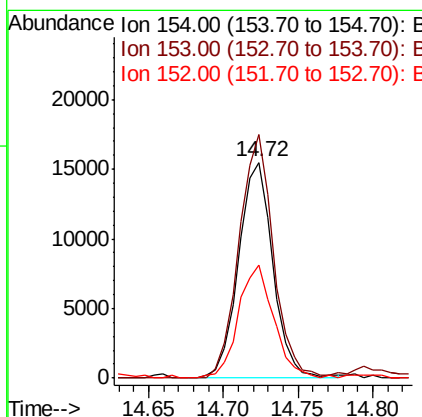
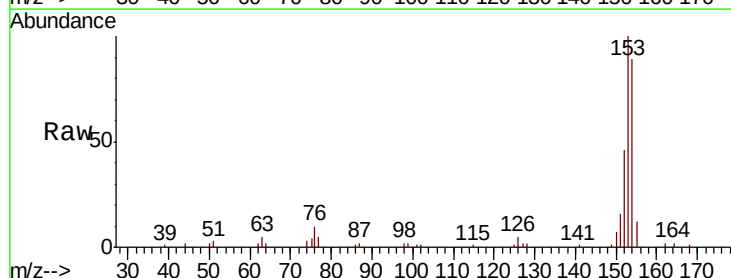
Instrument :
BNA_G
ClientSampleId :

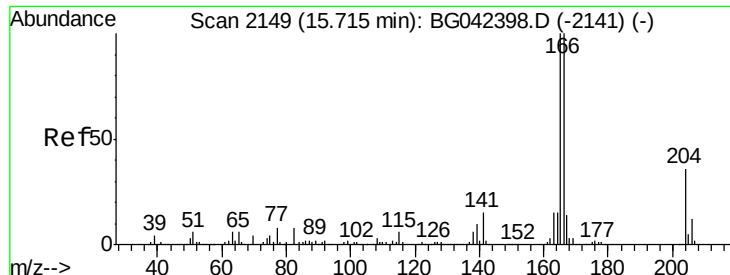
Tot Ion:163 Resp: 54690
Ion Ratio Lower Upper
163 100
194 4.4 4.2 6.2
164 12.3 8.8 13.2



#52
Acenaphthene
Concen: 4.712 ng
RT: 14.72 min Scan# 1980
Delta R.T. -0.00 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Tgt Ion:154 Resp: 24754
Ion Ratio Lower Upper
154 100
153 112.9 90.2 135.4
152 52.5 43.2 64.8

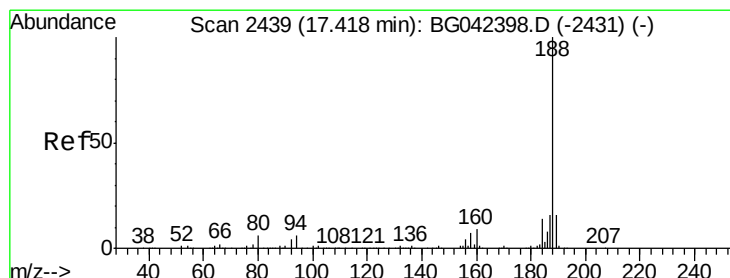
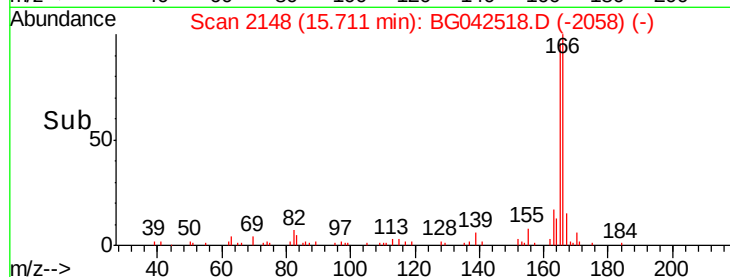
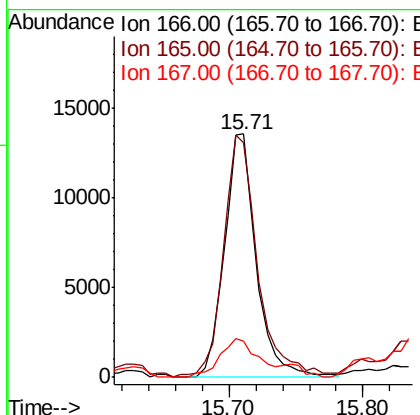
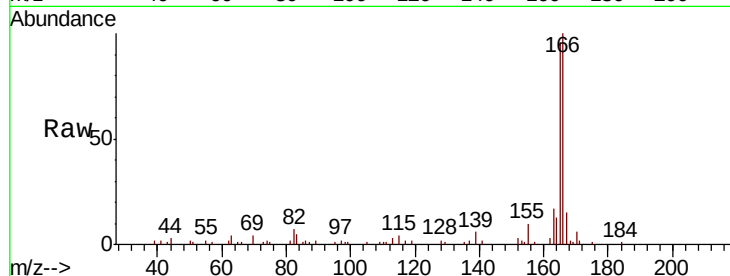




#58
 Fluorene
 Concen: 3.197 ng
 RT: 15.71 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

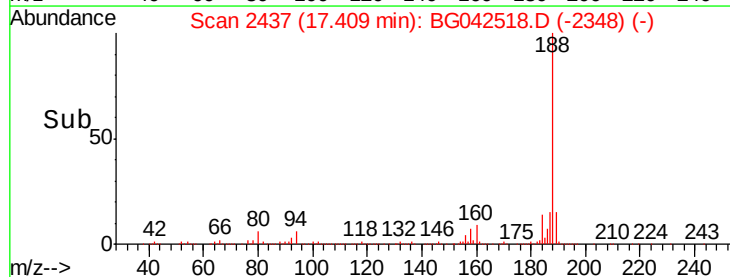
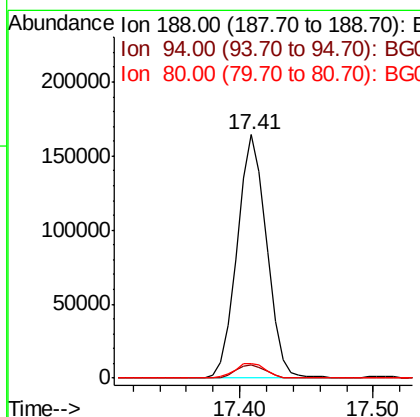
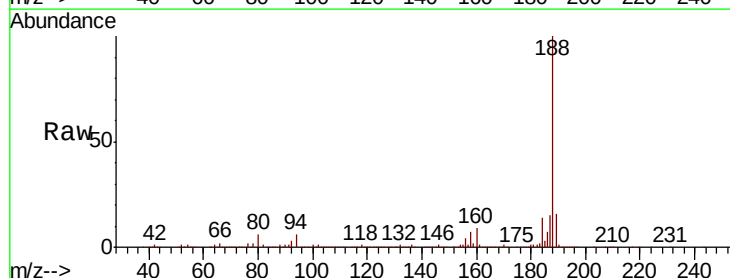
Instrument :
 BNA_G
 ClientSampleId :

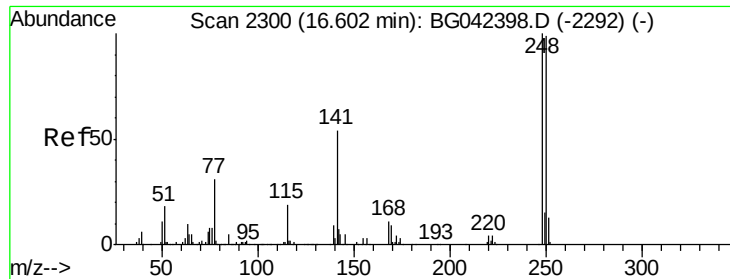
Tot Ion:166 Resp: 22731
 Ion Ratio Lower Upper
 166 100
 165 96.2 79.7 119.5
 167 15.0 10.9 16.3



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.41 min Scan# 2437
 Delta R.T. -0.01 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Tgt Ion:188 Resp: 251029
 Ion Ratio Lower Upper
 188 100
 94 5.6 4.5 6.7
 80 6.0 4.9 7.3

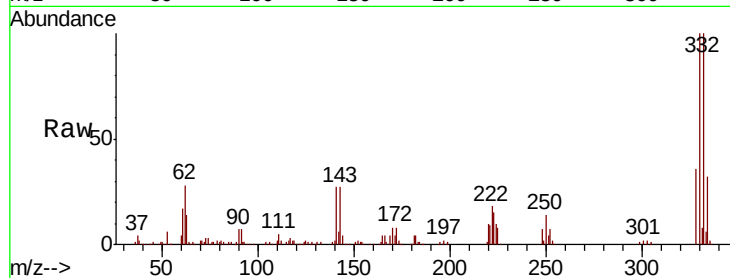




#67
 4-Bromophenyl-phenylether
 Concen: 5.481 ng
 RT: 16.15 min Scan# 2223
 Delta R.T. -0.45 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
248	100		
250	193.4	78.9	118.3#
141	372.4	43.3	64.9#

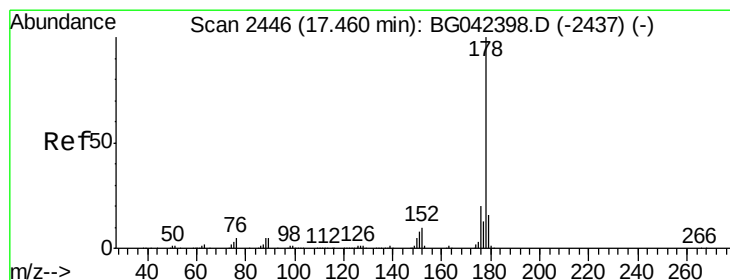
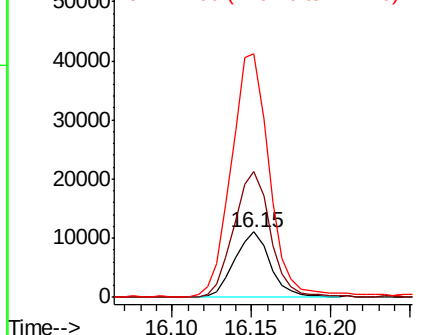
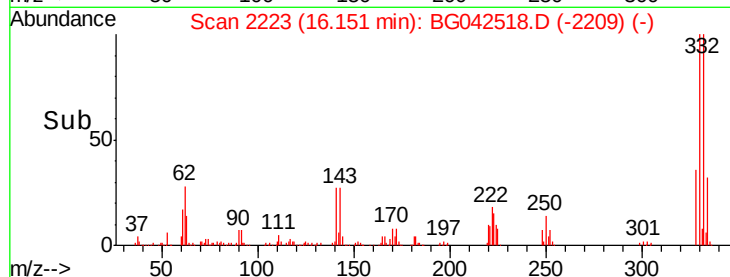


Abundance

Ion 248.00 (247.70 to 248.70): E

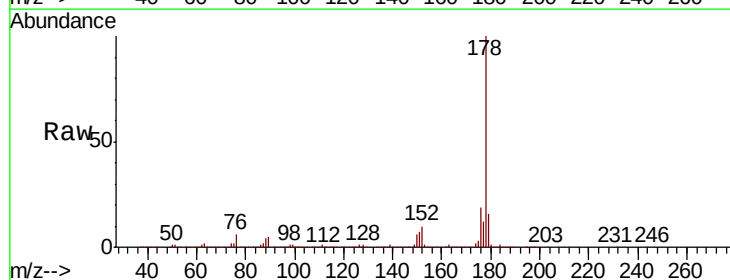
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#71
 Phenanthrene
 Concen: 37.268 ng
 RT: 17.45 min Scan# 2444
 Delta R.T. -0.01 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.9	23.9
179	15.8	12.7	19.1

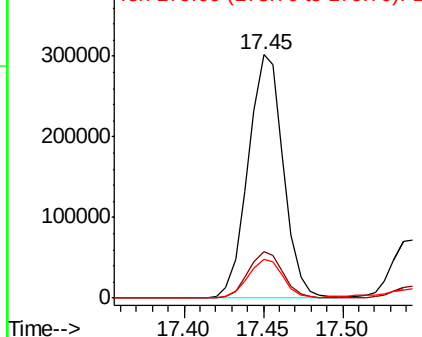
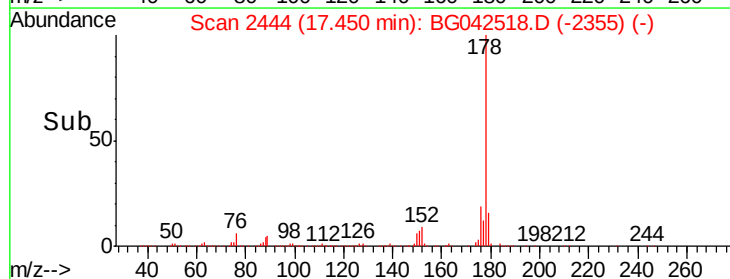


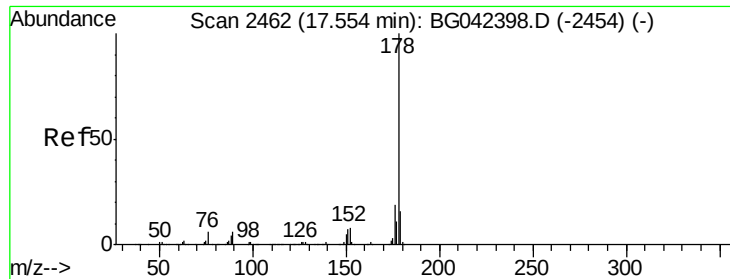
Abundance

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

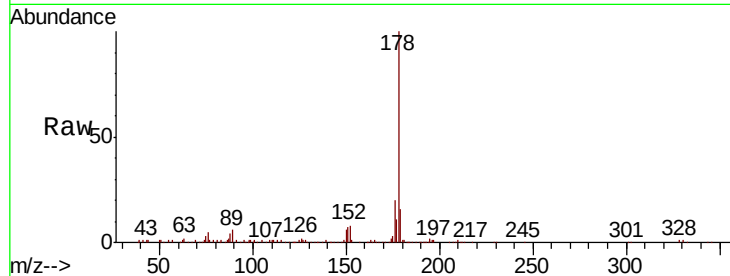




#72
 Anthracene
 Concen: 8.822 ng
 RT: 17.54 min Scan# 2460
 Delta R.T. -0.01 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.9	12.9	19.3

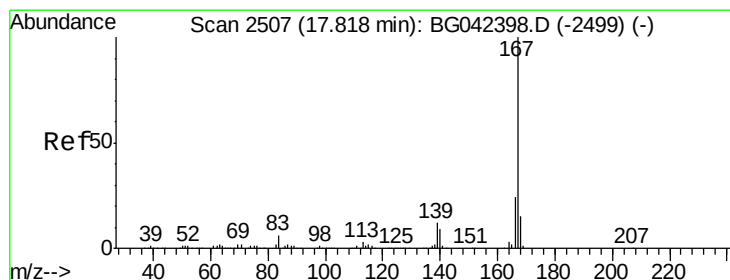
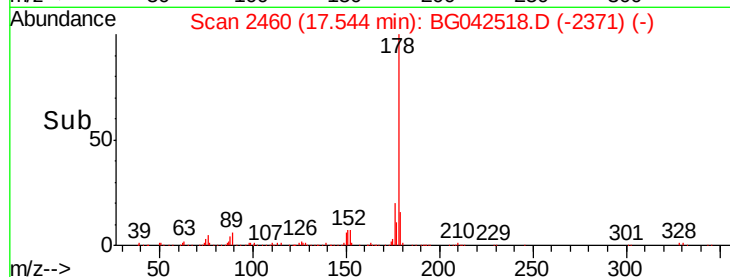
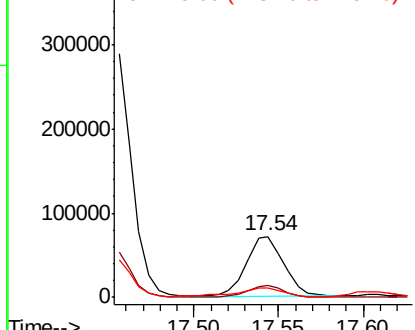


Abundance

Ion 178.00 (177.70 to 178.70): E

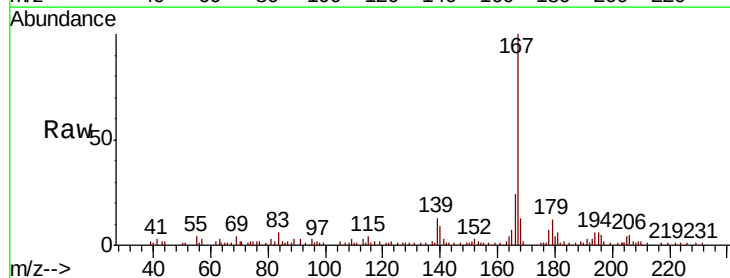
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73
 Carbazole
 Concen: 2.956 ng
 RT: 17.81 min Scan# 2506
 Delta R.T. -0.00 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.3	18.9	28.3
139	13.0	9.8	14.6

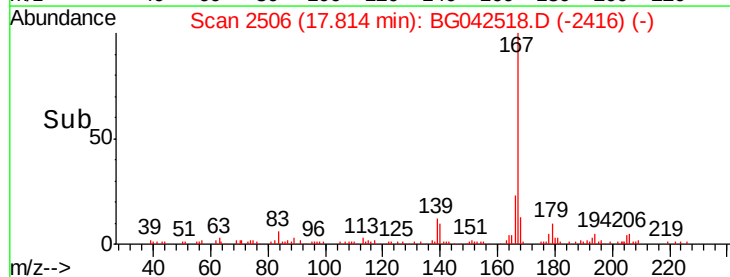
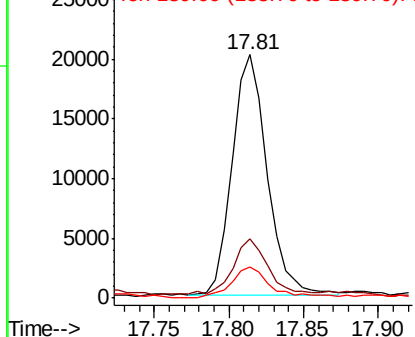


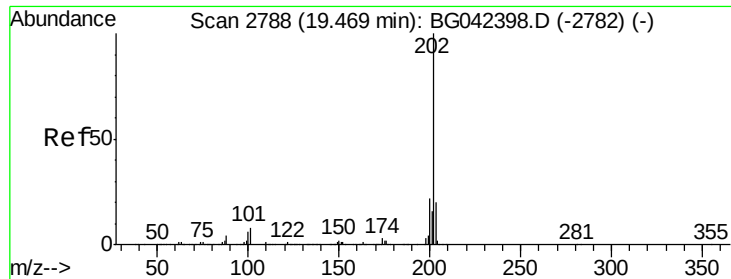
Abundance

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





#75

Fluoranthene

Concen: 64.105 ng

RT: 19.47 min Scan# 2787

Delta R.T. -0.00 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Instrument :

BNA_G

ClientSampleId :

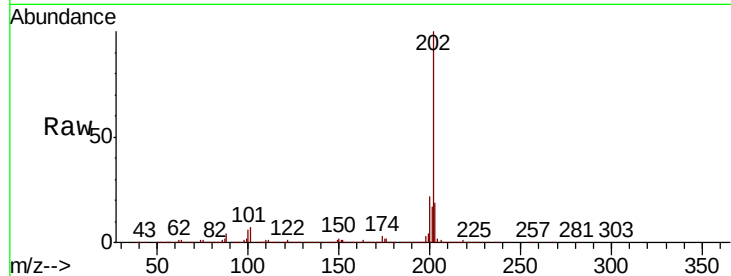
Tot Ion:202 Resp: 975527

Ion Ratio Lower Upper

202 100

101 7.2 0.0 28.3

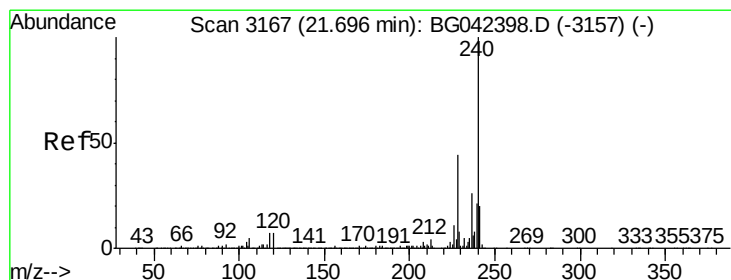
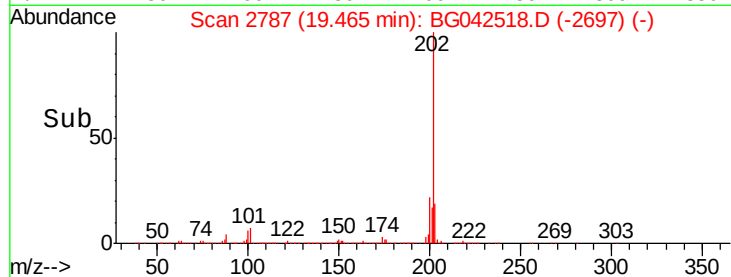
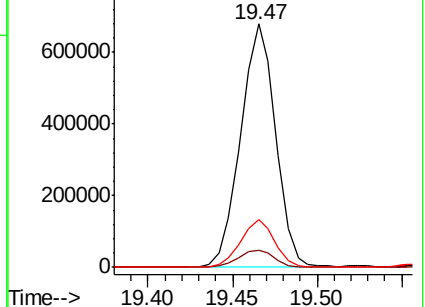
203 19.4 0.0 39.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.69 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

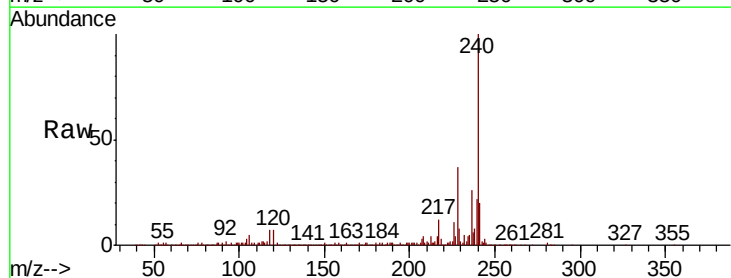
Tgt Ion:240 Resp: 311709

Ion Ratio Lower Upper

240 100

120 6.7 5.7 8.5

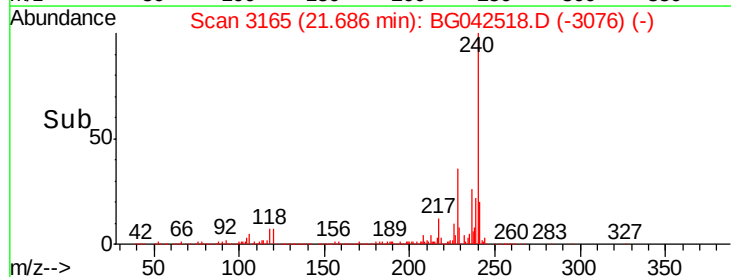
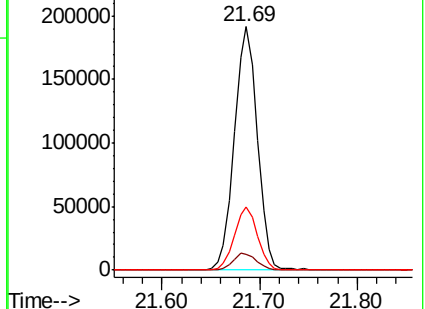
236 26.0 21.0 31.4

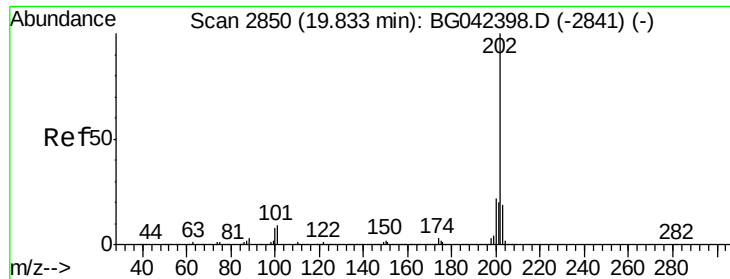


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

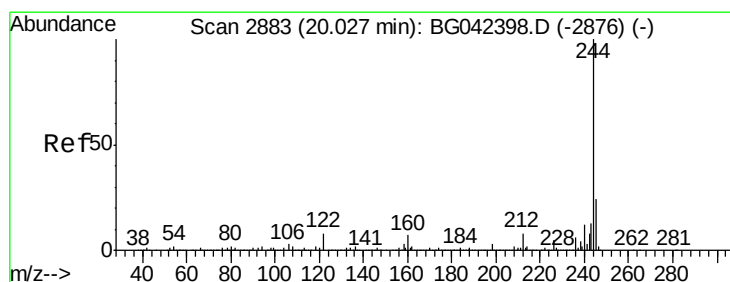
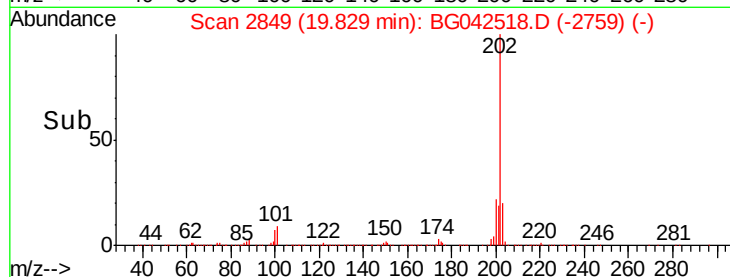
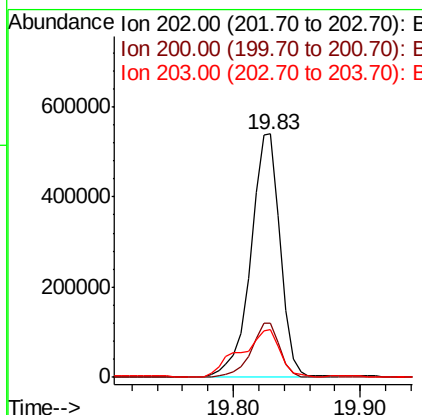
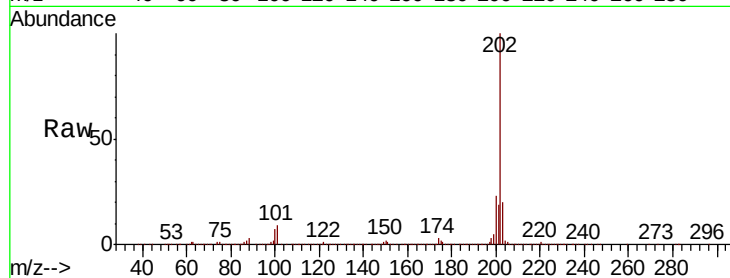




#78
Pvrene
Concen: 45.457 ng
RT: 19.83 min Scan# 2849
Delta R.T. -0.00 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

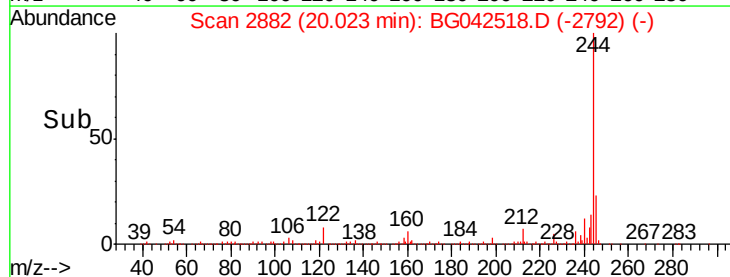
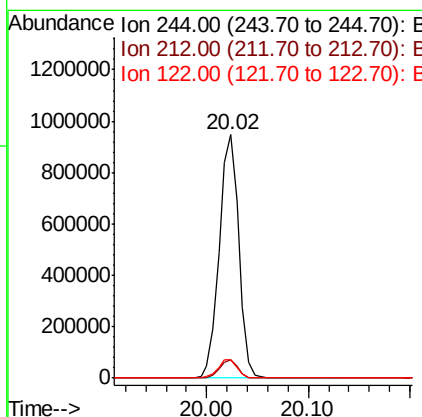
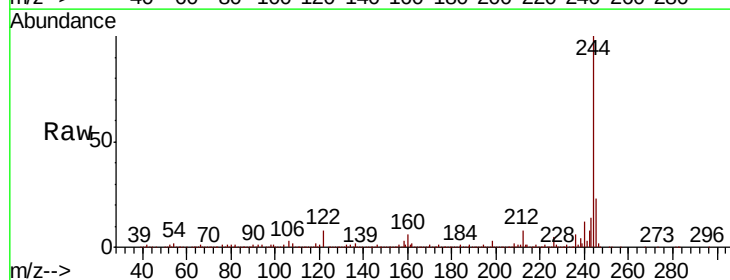
Instrument :
BNA_G
ClientSampleId :

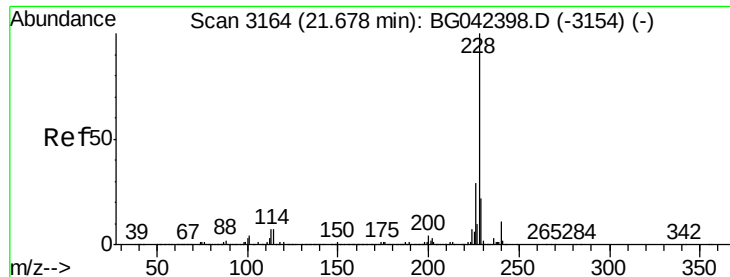
Tot Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.8	26.6
203	19.8	15.5	23.3



#79
Terphenyl-d14
Concen: 87.617 ng
RT: 20.02 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	7.8	6.7	10.1





#81

Benzo(a)anthracene

Concen: 30.381 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Instrument :

BNA_G

ClientSampleId :

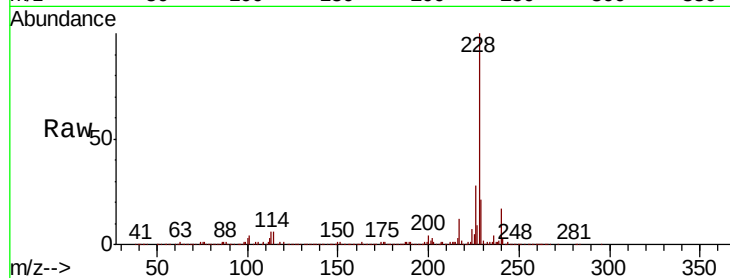
Tot Ion:228 Resp: 576073

Ion Ratio Lower Upper

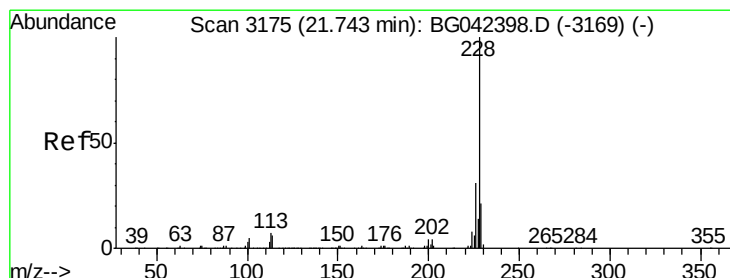
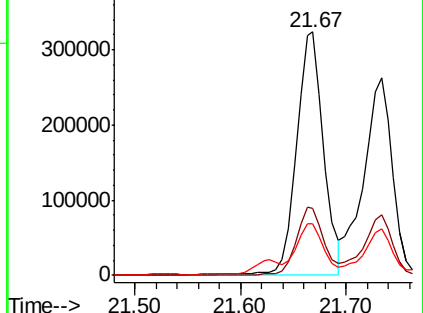
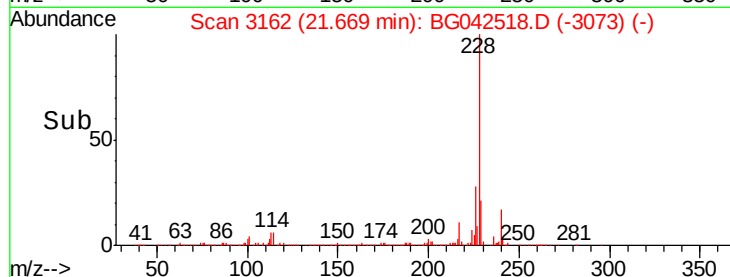
228 100

226 27.7 23.4 35.2

229 21.2 17.4 26.2



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



#83

Chrysene

Concen: 26.206 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

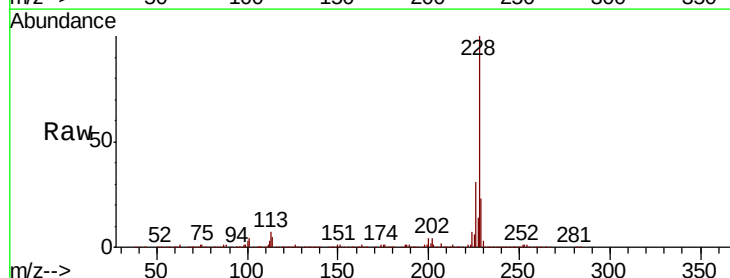
Tgt Ion:228 Resp: 479221

Ion Ratio Lower Upper

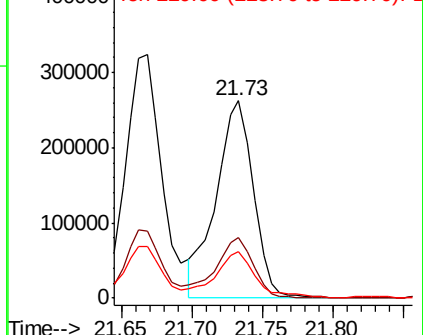
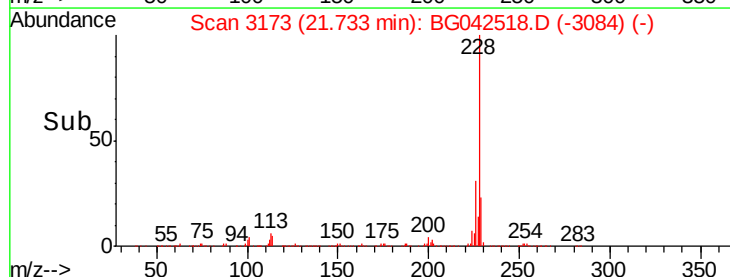
228 100

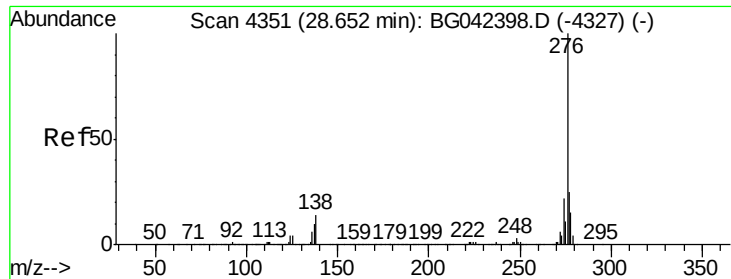
226 30.8 24.9 37.3

229 23.3 16.9 25.3



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





#86

Indeno(1,2,3-cd)pyrene

Concen: 8.715 ng

RT: 28.61 min Scan# 4344

Delta R.T. -0.04 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

Instrument :

BNA_G

ClientSampleId :

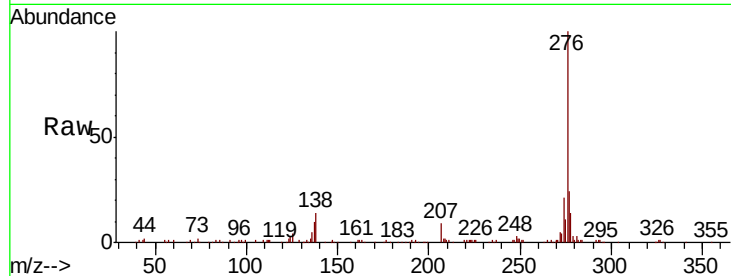
Tot Ion:276 Resp: 216575

Ion Ratio Lower Upper

276 100

138 15.5 9.2 13.8#

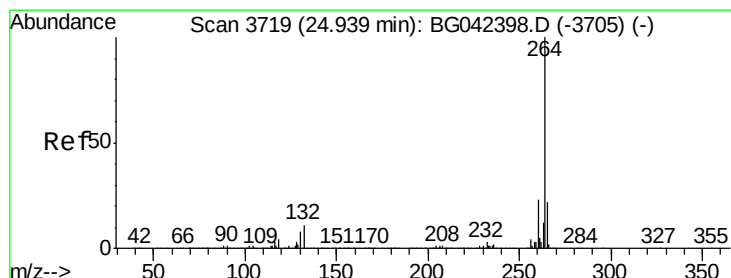
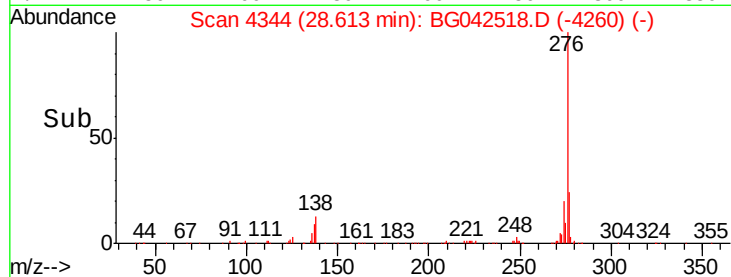
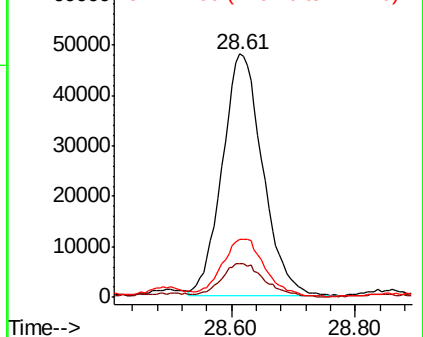
277 24.9 21.0 31.6



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.92 min Scan# 3716

Delta R.T. -0.02 min

Lab File: BG042518.D

Acq: 28 Aug 2019 00:00

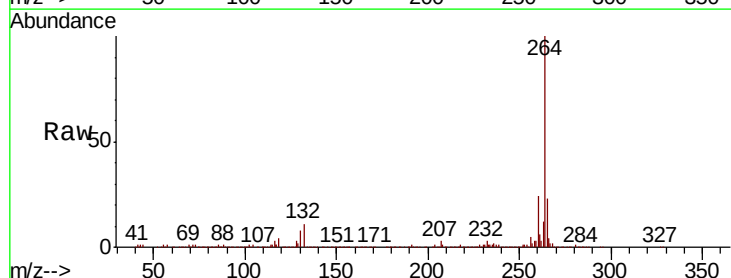
Tgt Ion:264 Resp: 376986

Ion Ratio Lower Upper

264 100

260 23.9 18.5 27.7

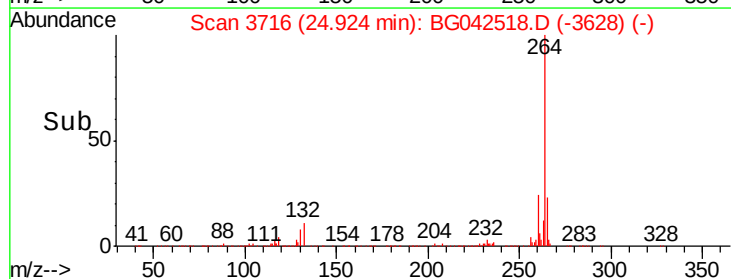
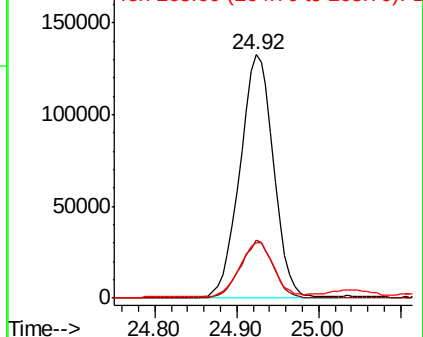
265 22.6 17.6 26.4

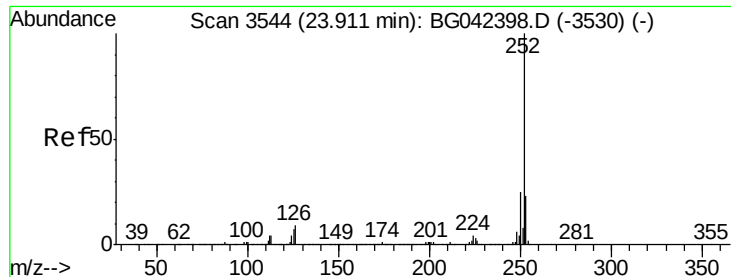


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

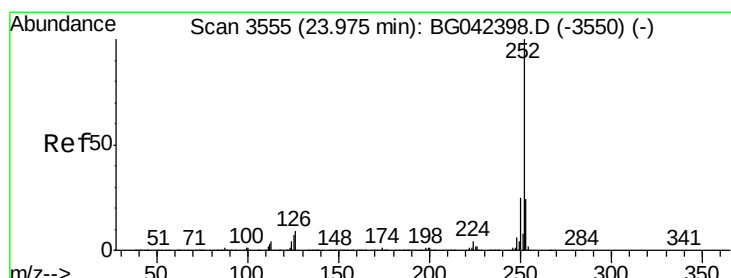
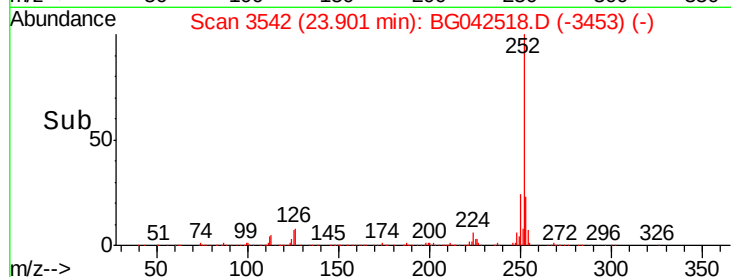
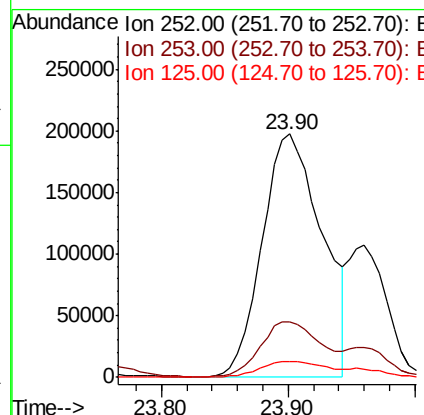
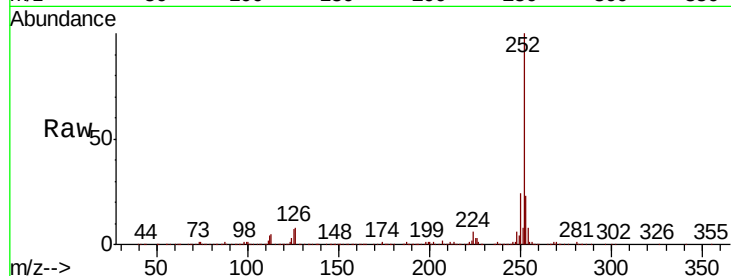




#88
Benzo(b)fluoranthene
Concen: 31.247 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.01 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

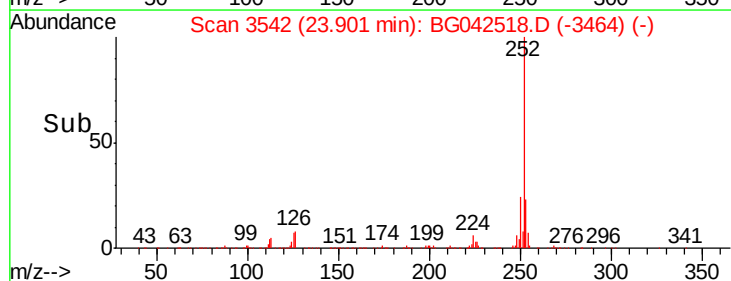
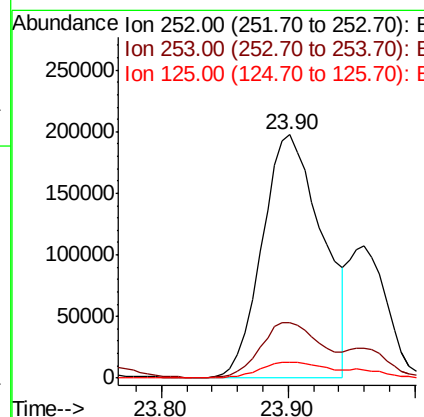
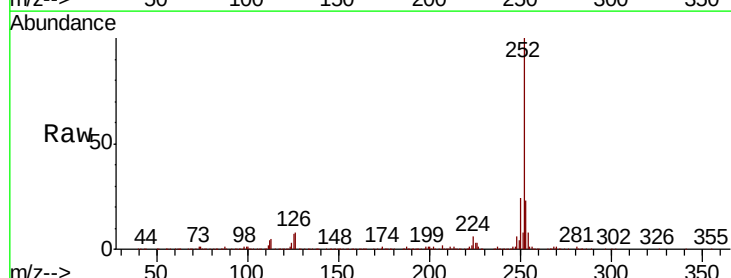
Instrument :
BNA_G
ClientSampleId :

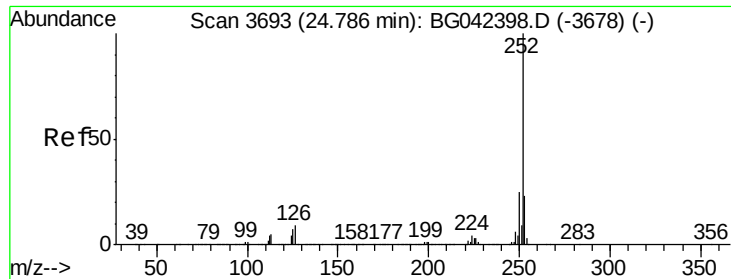
Tot Ion:252 Resp: 647608
Ion Ratio Lower Upper
252 100
253 23.0 18.6 27.8
125 6.6 5.6 8.4



#89
Benzo(k)fluoranthene
Concen: 32.508 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.07 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Tgt Ion:252 Resp: 647608
Ion Ratio Lower Upper
252 100
253 23.0 18.6 27.8
125 6.6 5.8 8.6

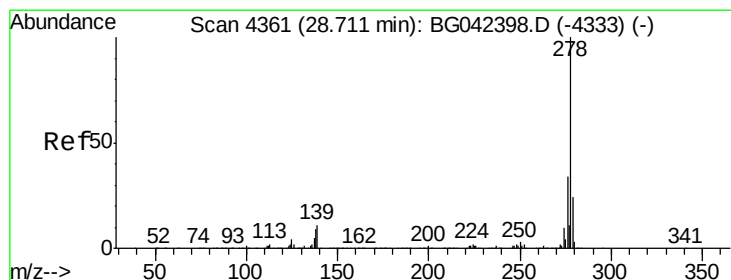
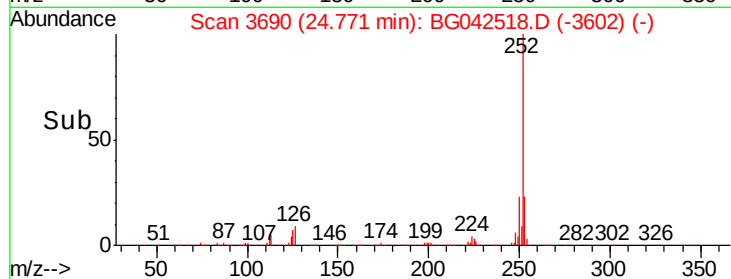
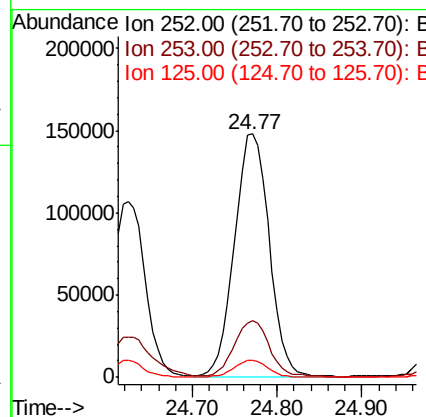
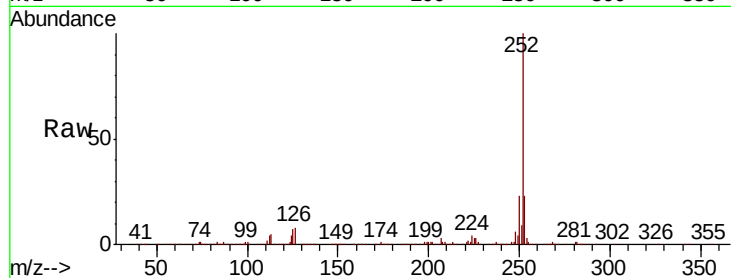




#90
Benzo(a)pyrene
Concen: 21.328 ng
RT: 24.77 min Scan# 3690
Delta R.T. -0.02 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

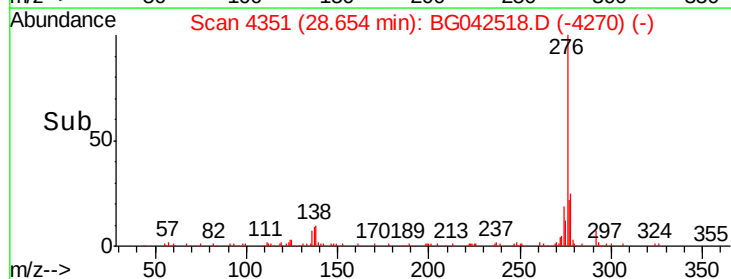
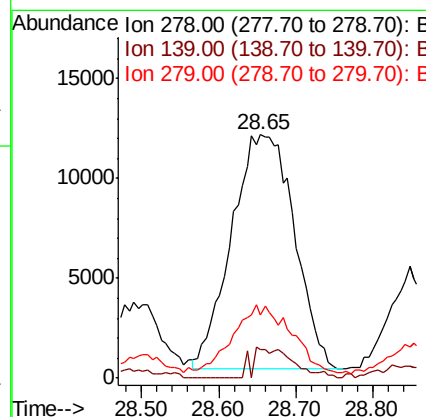
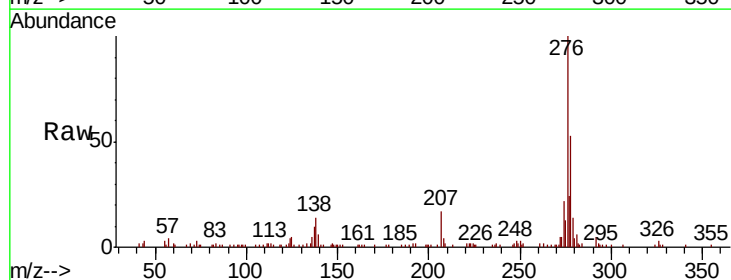
Instrument :
BNA_G
ClientSampleId :

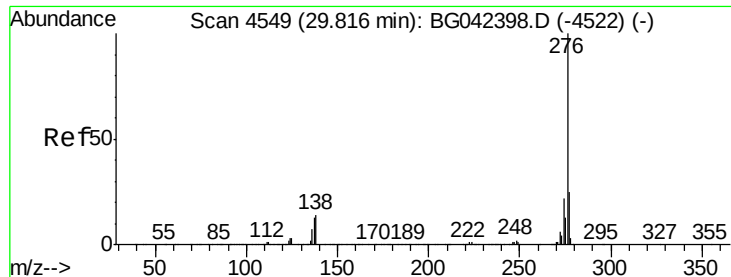
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	7.1	6.0	9.0



#91
Dibenzo(a,h)anthracene
Concen: 3.326 ng
RT: 28.65 min Scan# 4351
Delta R.T. -0.06 min
Lab File: BG042518.D
Acq: 28 Aug 2019 00:00

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.7	8.8	13.2
279	26.1	19.1	28.7





#92
 Benzo(a,h,i)perylene
 Concen: 9.822 ng
 RT: 29.77 min Scan# 4541
 Delta R.T. -0.04 min
 Lab File: BG042518.D
 Acq: 28 Aug 2019 00:00

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.8	29.8
138	13.5	11.4	17.0

