

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090119\
 Data File : BG042681.D
 Acq On : 2 Sep 2019 3:37
 Operator : HP/JU
 Sample : K4579-08
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Sep 02 07:31:34 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	7.99	152	31294	20.00	ng	-0.01
21) Naphthalene-d8	10.82	136	123762	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	95983	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	224280	20.00	ng	-0.01
76) Chrysene-d12	21.68	240	241552	20.00	ng	-0.01
87) Perylene-d12	24.92	264	289057	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	136705	88.47	ng	0.00
7) Phenol-d6	7.16	99	181908	87.16	ng	-0.01
23) Nitrobenzene-d5	9.16	82	103446	57.76	ng	-0.01
42) 2,4,6-Tribromophenol	16.15	330	130127	95.38	ng	-0.01
45) 2-Fluorobiphenyl	13.27	172	366044	64.50	ng	-0.01
79) Terphenyl-d14	20.02	244	679837	60.85	ng	0.00

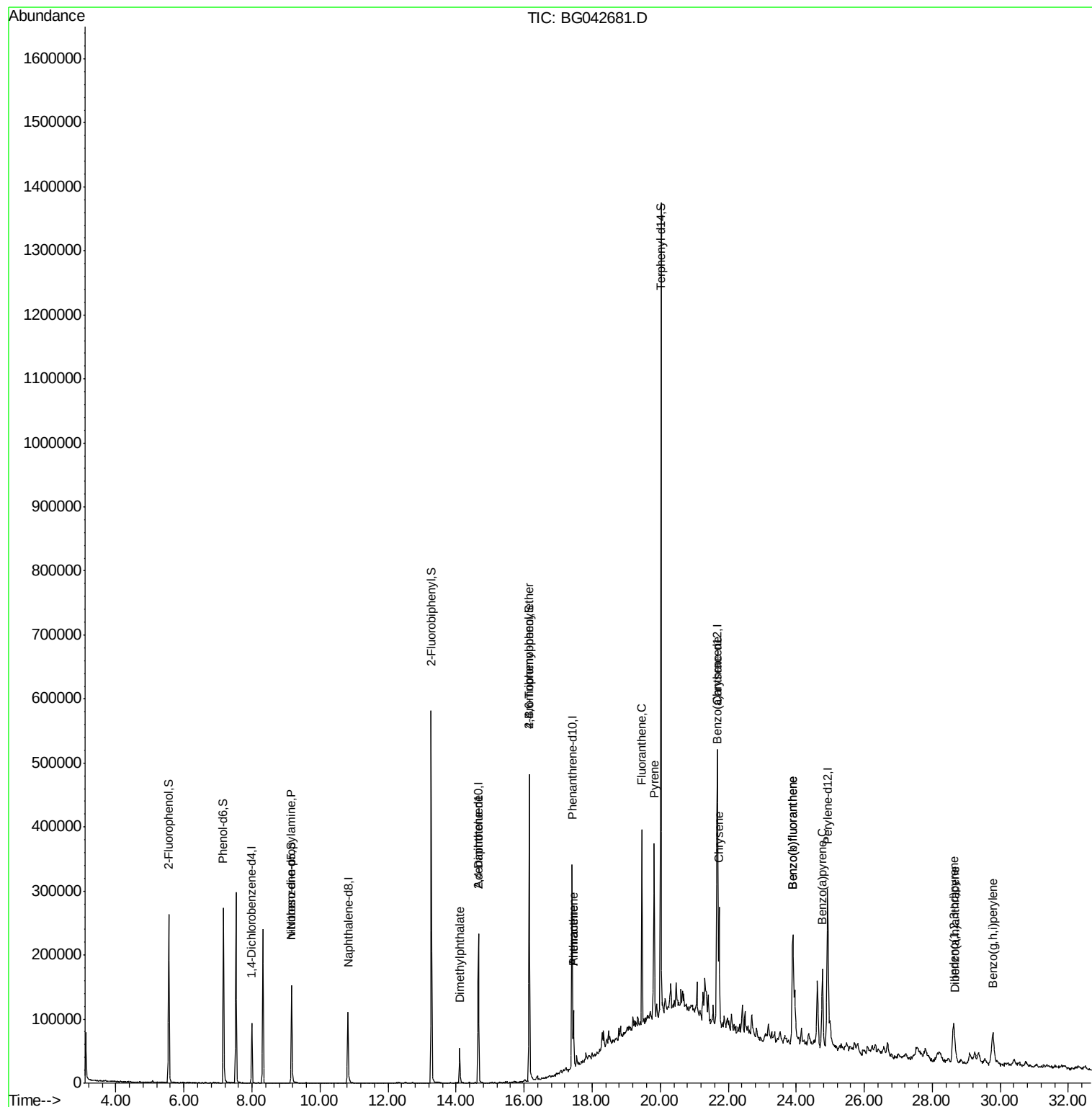
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.16	70	13635	10.084	ng	# 73
50) Dimethylphthalate	14.10	163	52766	7.619	ng	97
57) 2,4-Dinitrotoluene	14.65	165	12192	5.304	ng	# 38
67) 4-Bromophenyl-phenylether	16.14	248	8616	3.029	ng	# 1
71) Phenanthrene	17.45	178	64062	5.750	ng	99
72) Anthracene	17.45	178	64062	5.760	ng	99
75) Fluoranthene	19.46	202	216325	15.911	ng	95
78) Pyrene	19.82	202	193634	13.075	ng	97
81) Benzo(a)anthracene	21.67	228	138349	9.415	ng	98
83) Chrysene	21.73	228	152052	10.730	ng	97
86) Indeno(1,2,3-cd)pyrene	28.63	276	114859	5.964	ng	# 95
88) Benzo(b)fluoranthene	23.90	252	230769	14.522	ng	97
89) Benzo(k)fluoranthene	23.90	252	230769	15.108	ng	97
90) Benzo(a)pyrene	24.77	252	144688	9.595	ng	97
91) Dibenzo(a,h)anthracene	28.67	278	32006	2.096	ng	93
92) Benzo(g,h,i)perylene	29.79	276	122544	8.025	ng	# 94

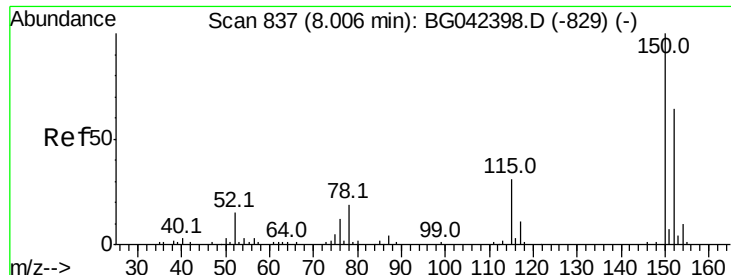
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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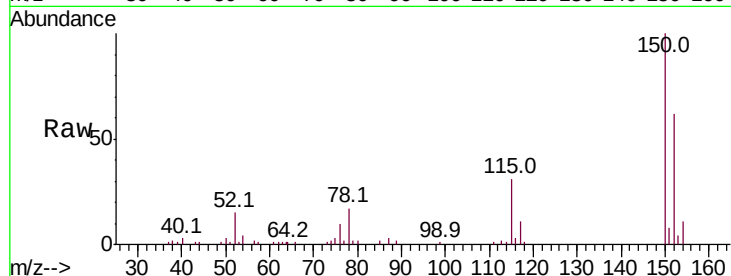


#1

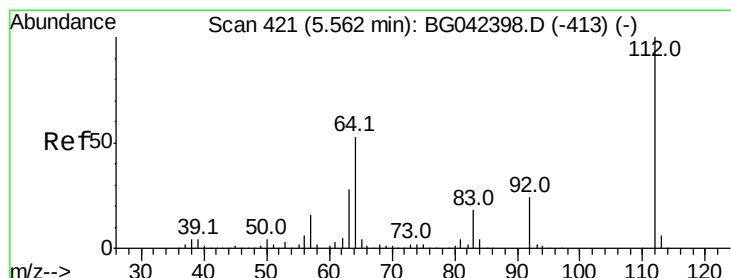
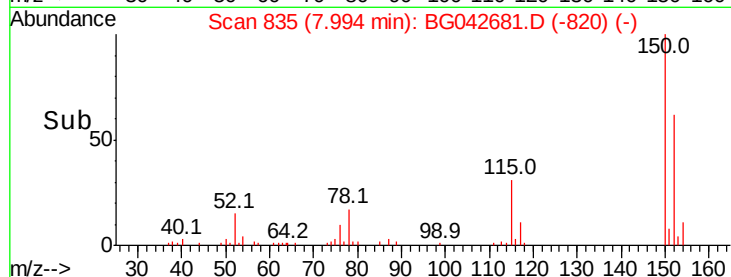
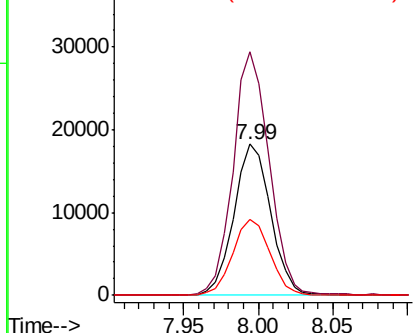
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.99 min Scan# 835
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	125.4	188.0
115	50.1	38.5	57.7



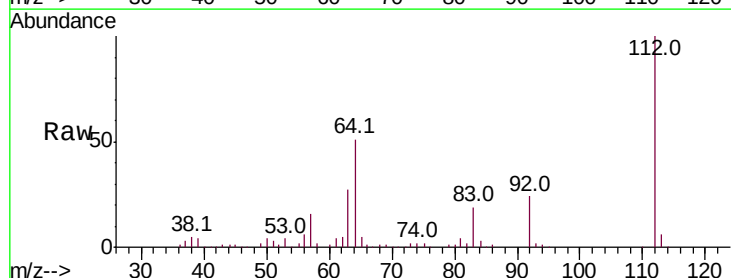
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



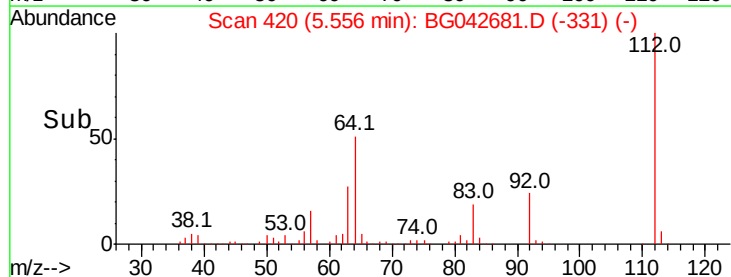
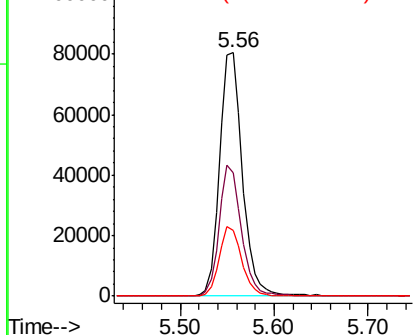
#5

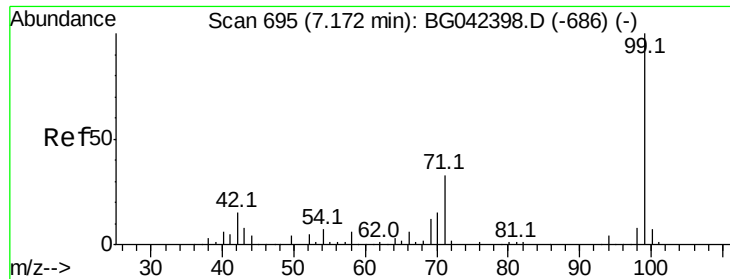
2-Fluorophenol
 Concen: 88.473 ng
 RT: 5.56 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.7	42.8	64.2
63	27.1	22.7	34.1



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BG0
 Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 87.156 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Instrument :

BNA_G

ClientSampleId :

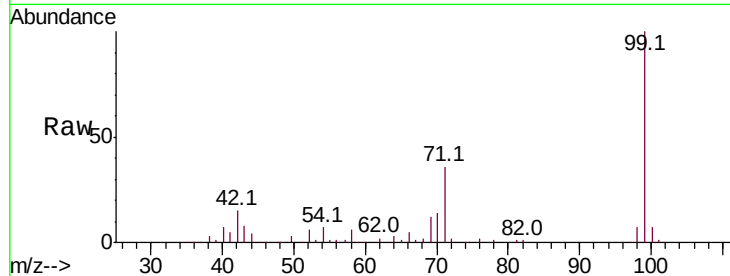
Tot Ion: 99 Resp: 181908

Ion Ratio Lower Upper

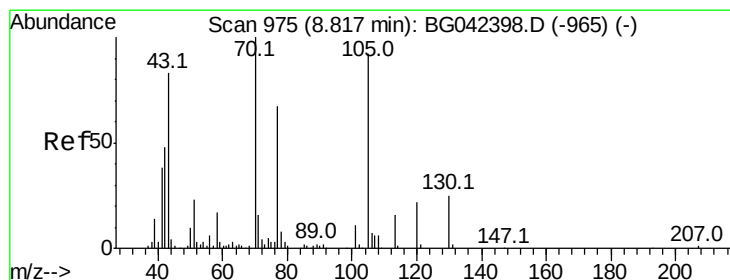
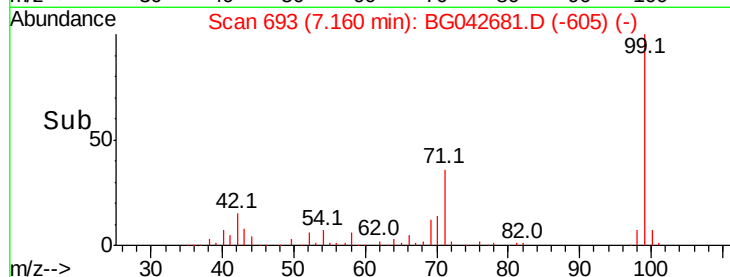
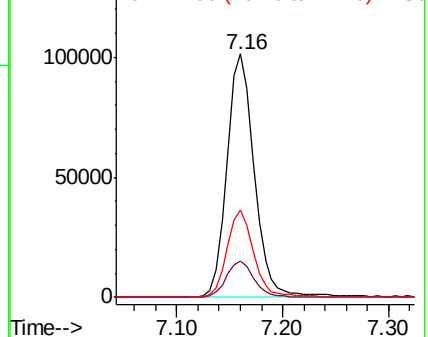
99 100

42 14.9 12.0 18.0

71 35.8 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



#19

n-Nitroso-di-n-propylamine

Concen: 10.084 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Tgt Ion: 70 Resp: 13635

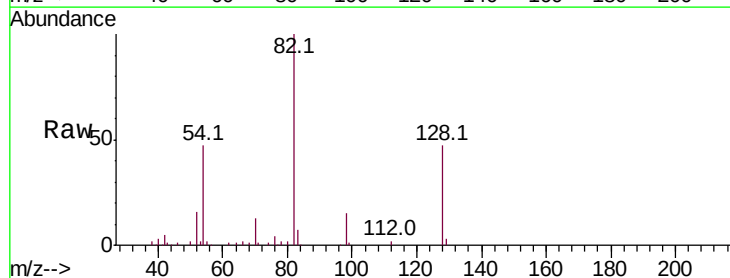
Ion Ratio Lower Upper

70 100

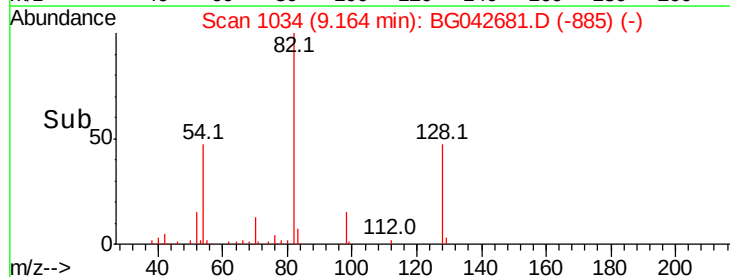
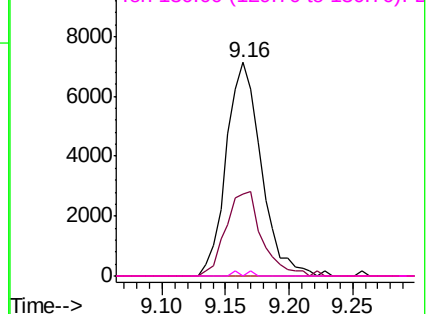
42 38.1 38.8 58.2#

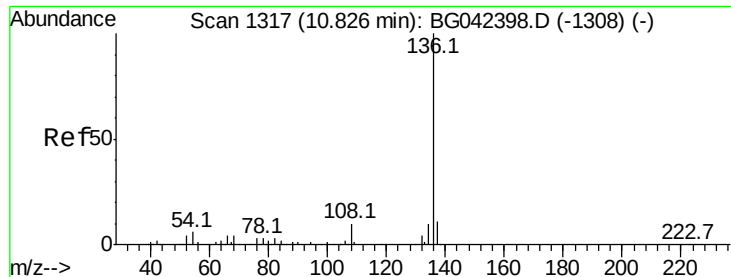
101 0.0 9.0 13.6#

130 0.0 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

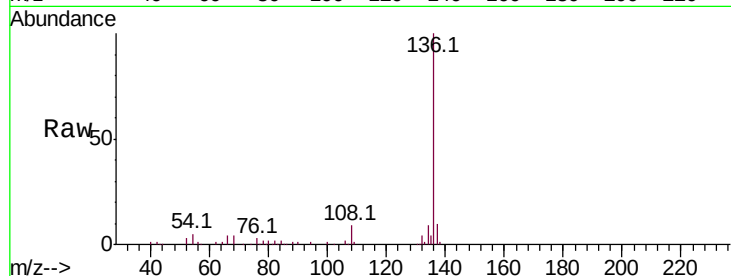




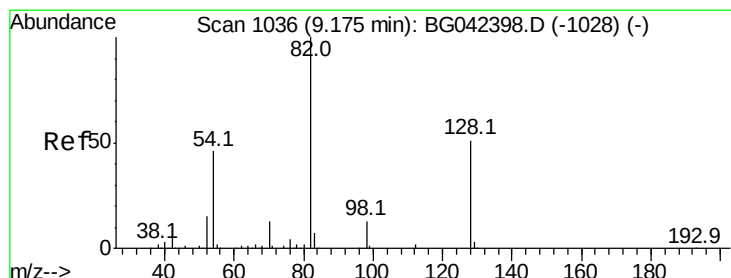
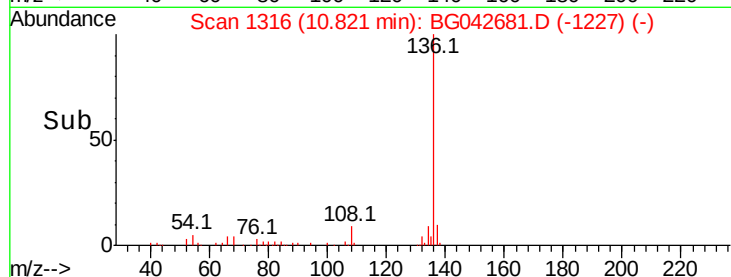
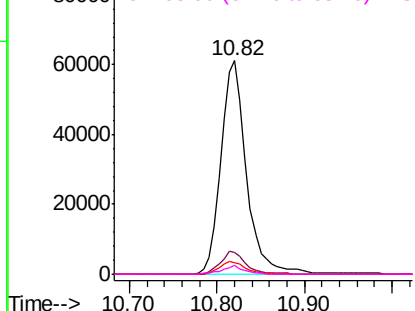
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.82 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

Instrument :
BNA_G
ClientSampleId :

Tot Ion:136	Resp:	123762
Ion Ratio	Lower	Upper
136	100	
137	10.4	8.7 13.1
54	5.4	4.9 7.3
68	4.0	3.6 5.4

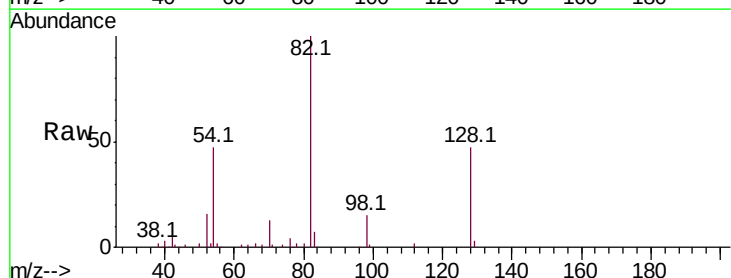


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

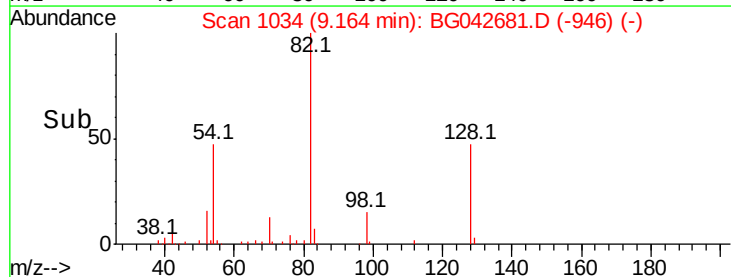
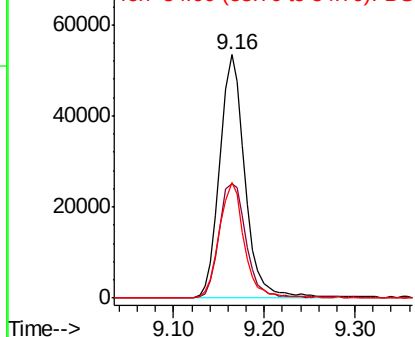


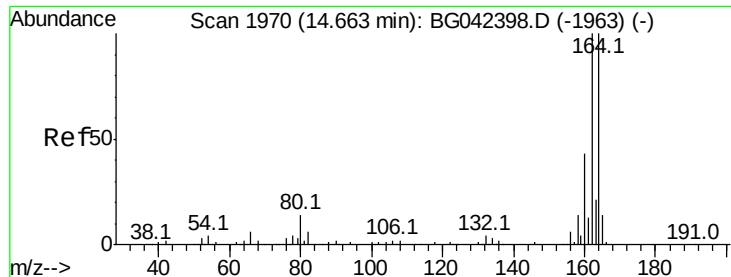
#23
Nitrobenzene-d5
Concen: 57.760 ng
RT: 9.16 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

Tgt Ion: 82	Resp:	103446
Ion Ratio	Lower	Upper
82	100	
128	47.2	40.7 61.1
54	47.3	36.3 54.5



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

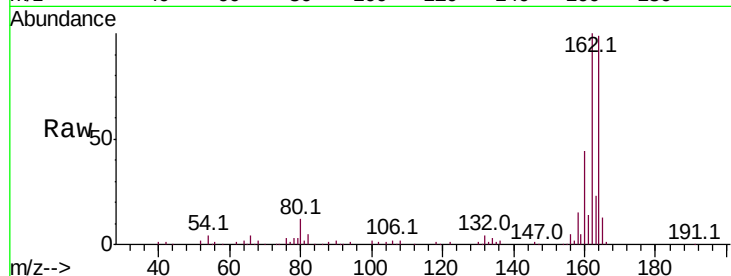
Instrument :

BNA_G

ClientSampleId :

Tot Ion:164 Resp: 95983

Ion	Ratio	Lower	Upper
164	100		
162	101.5	79.9	119.9
160	44.9	34.3	51.5

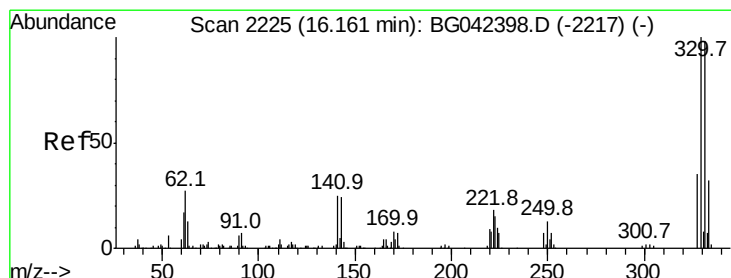
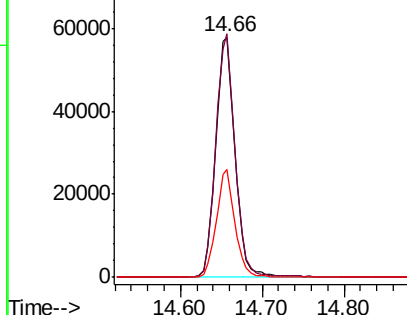
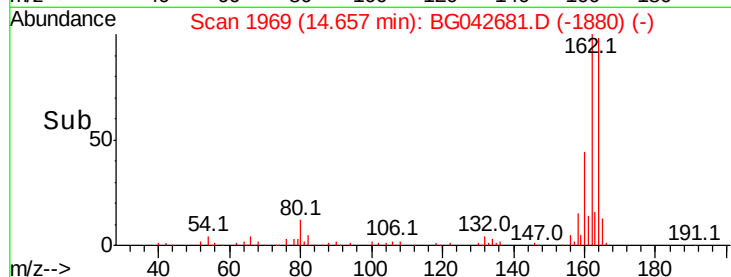


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 95.384 ng

RT: 16.15 min Scan# 2223

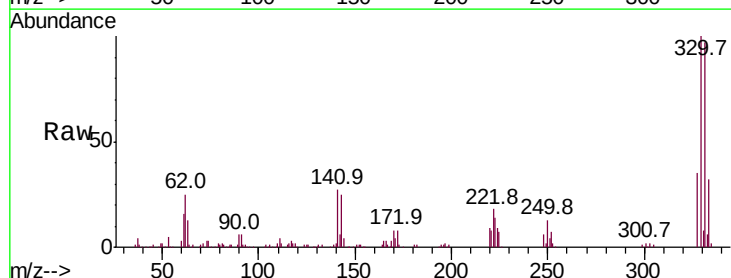
Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Tgt Ion:330 Resp: 130127

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.4	116.0
141	26.9	21.4	32.0

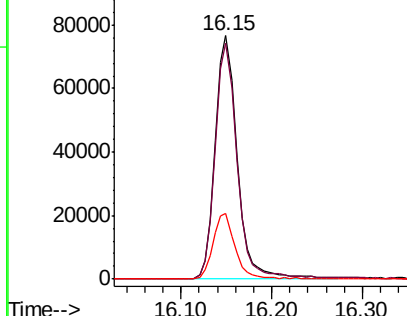
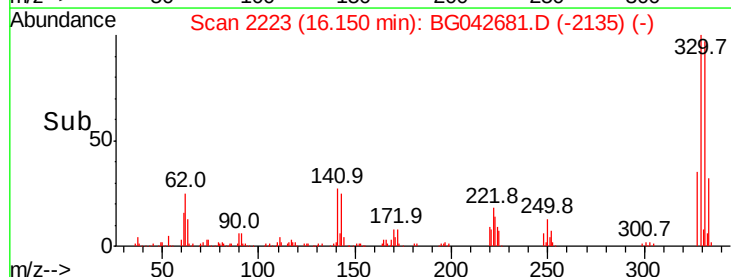


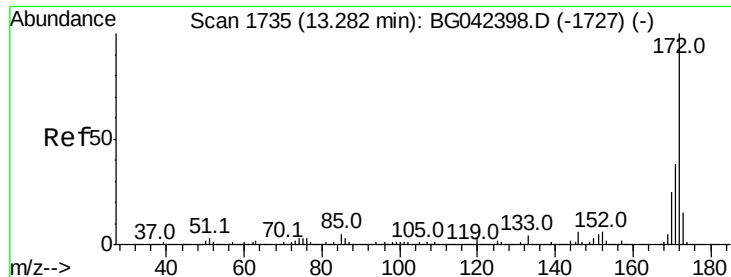
Abundance

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



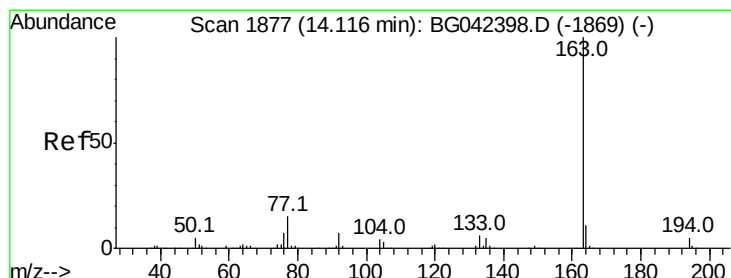
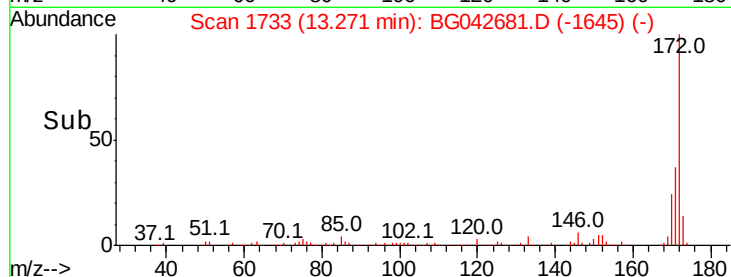
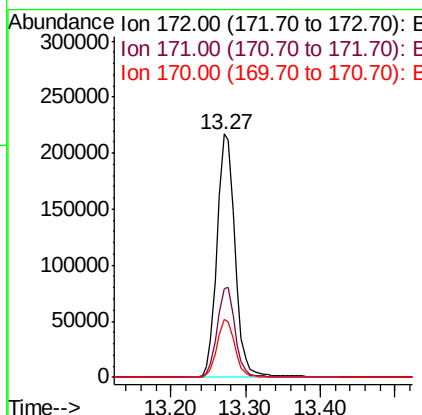
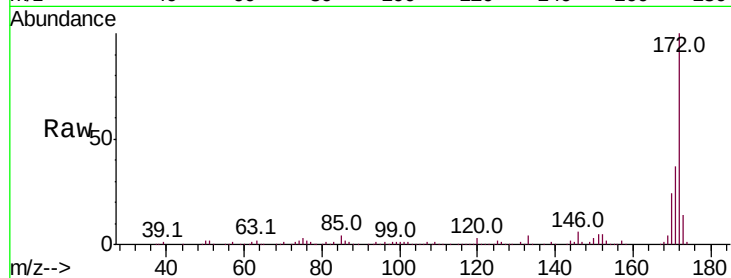


#45
 2-Fluorobiphenyl
 Concen: 64.499 ng
 RT: 13.27 min Scan# 1733
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:172 Resp: 366044

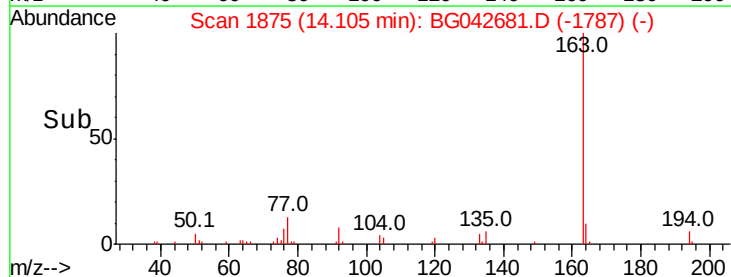
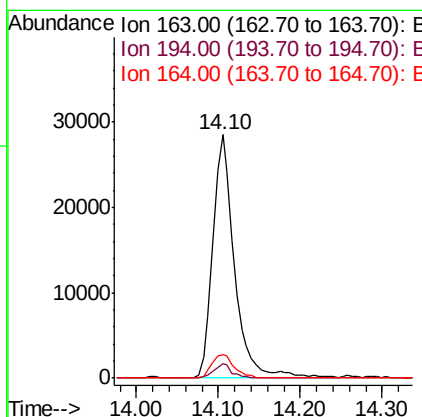
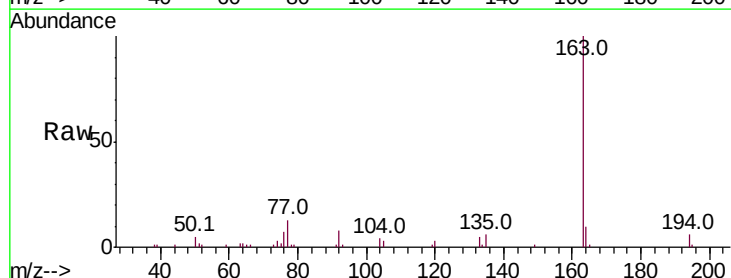
Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.5	45.7
170	23.9	20.2	30.2

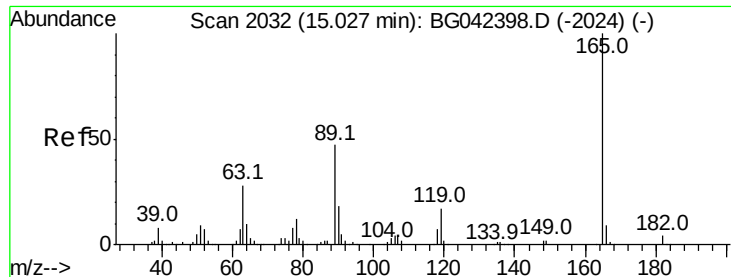


#50
 Dimethylphthalate
 Concen: 7.619 ng
 RT: 14.10 min Scan# 1875
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Tgt Ion:163 Resp: 52766

Ion	Ratio	Lower	Upper
163	100		
194	6.0	4.2	6.2
164	9.6	8.8	13.2

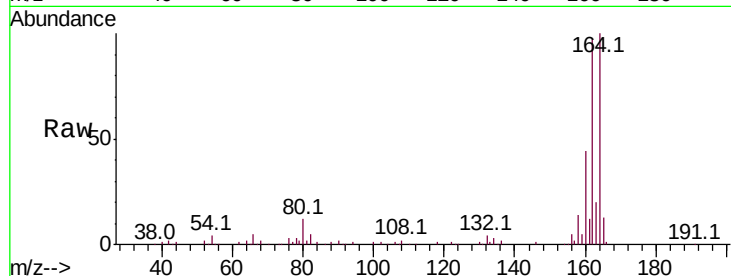




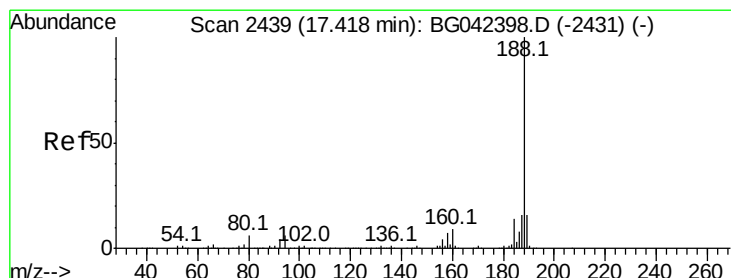
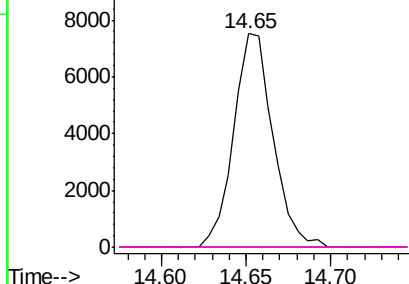
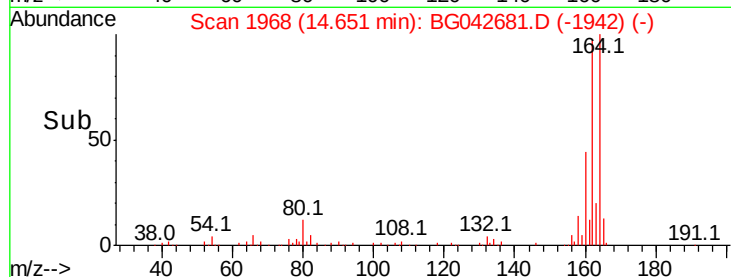
#57
 2,4-Dinitrotoluene
 Concen: 5.304 ng
 RT: 14.65 min Scan# 1968
 Delta R.T. -0.38 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:165 Resp: 12192
 Ion Ratio Lower Upper
 165 100
 63 0.0 22.5 33.7#
 89 0.0 37.8 56.6#
 182 0.0 3.0 4.4#

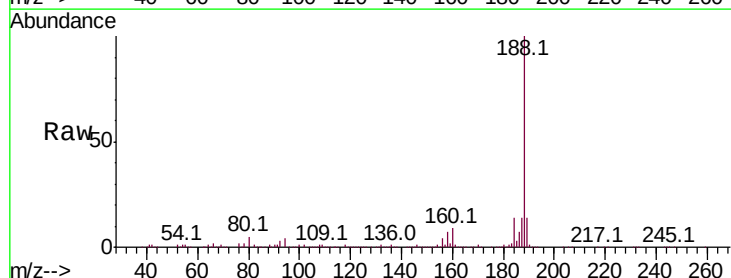


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC
 Ion 182.00 (181.70 to 182.70): E

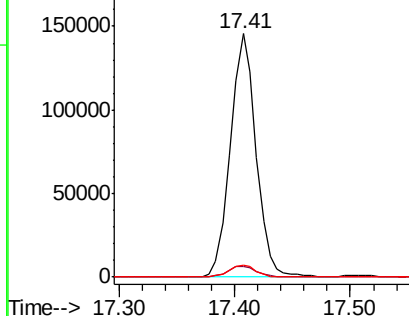
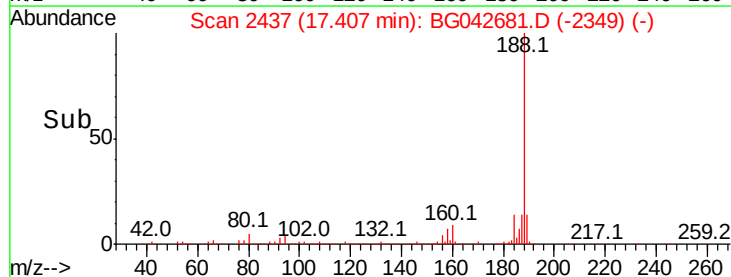


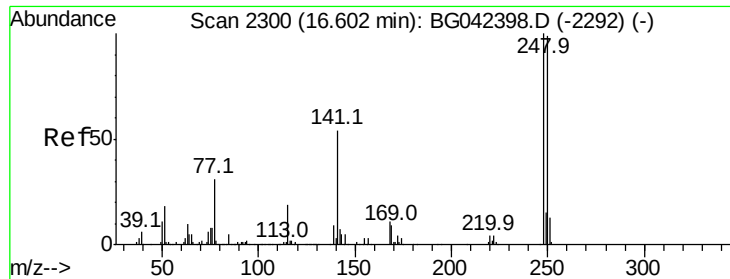
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.41 min Scan# 2437
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Tgt Ion:188 Resp: 224280
 Ion Ratio Lower Upper
 188 100
 94 4.4 4.5 6.7#
 80 5.1 4.9 7.3



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGC
 Ion 80.00 (79.70 to 80.70): BGC

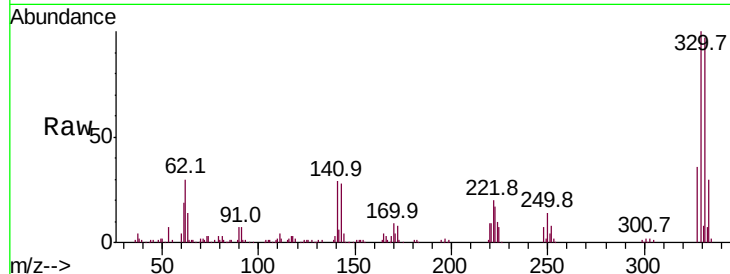




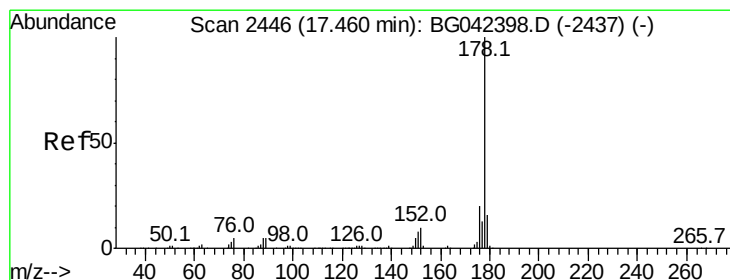
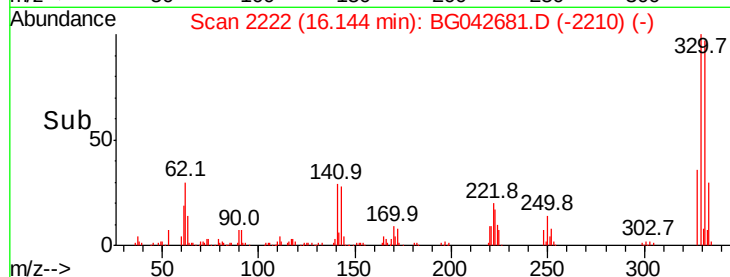
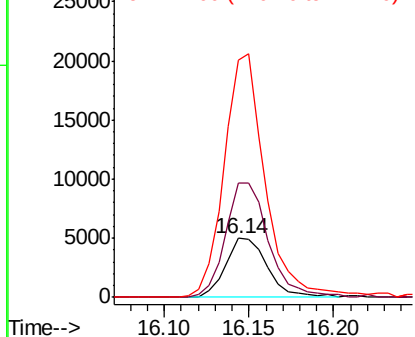
#67
 4-Bromophenyl-phenylether
 Concen: 3.029 ng
 RT: 16.14 min Scan# 2222
 Delta R.T. -0.46 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:248 Resp: 8616
 Ion Ratio Lower Upper
 248 100
 250 193.1 78.9 118.3#
 141 400.0 43.3 64.9#

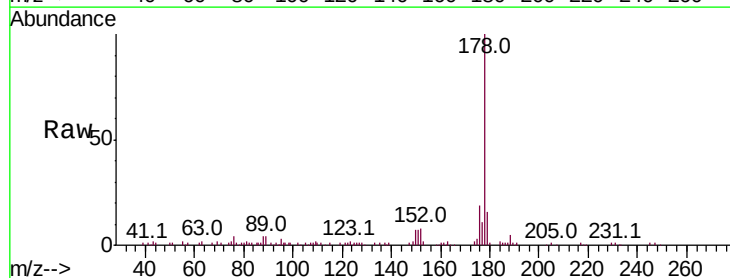


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

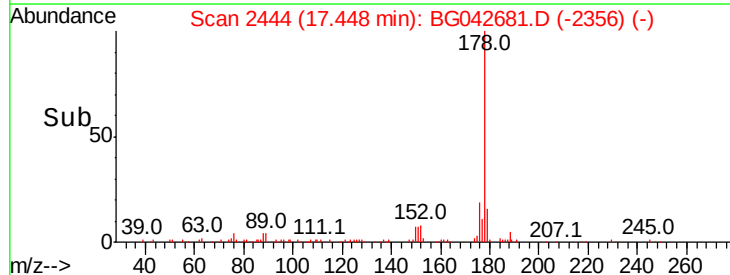
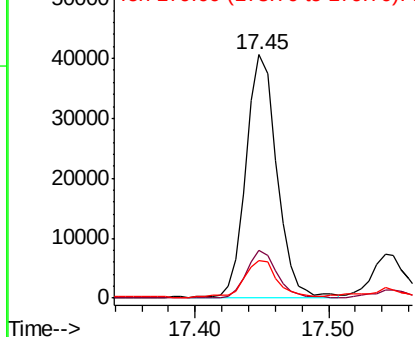


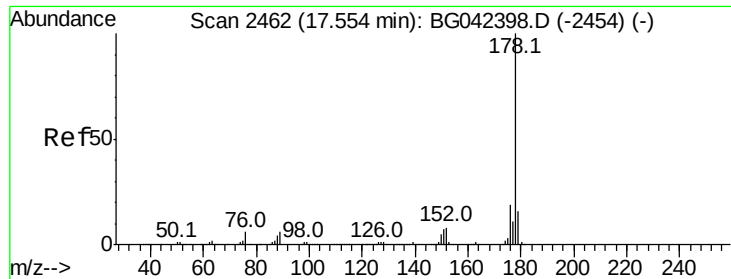
#71
 Phenanthrene
 Concen: 5.750 ng
 RT: 17.45 min Scan# 2444
 Delta R.T. -0.01 min
 Lab File: BG042681.D
 Acq: 2 Sep 2019 3:37

Tgt Ion:178 Resp: 64062
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.9 23.9
 179 15.6 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: 5.760 ng

RT: 17.45 min Scan# 2444

Delta R.T. -0.11 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Instrument :

BNA_G

ClientSampled :

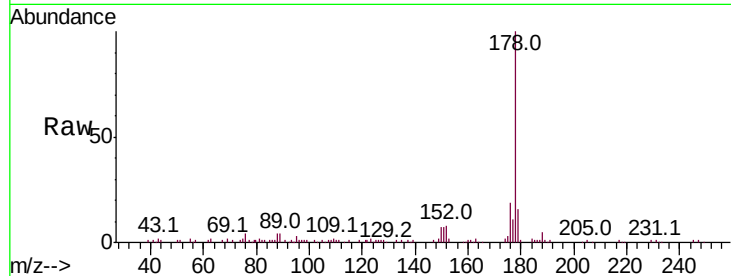
Tot Ion:178 Resp: 64062

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

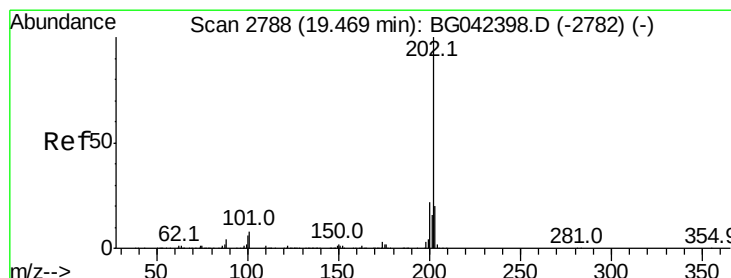
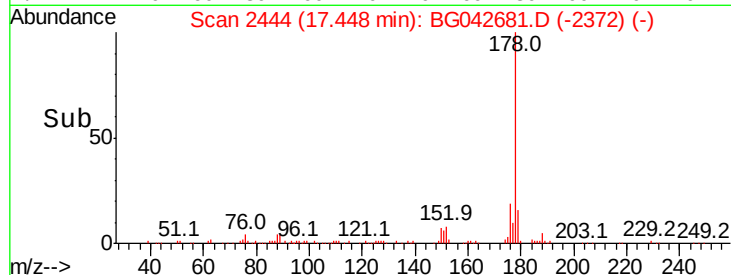
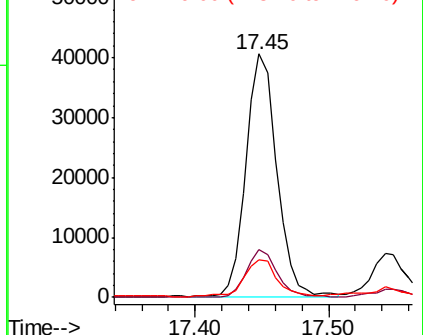
179 15.6 12.9 19.3



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



#75

Fluoranthene

Concen: 15.911 ng

RT: 19.46 min Scan# 2787

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

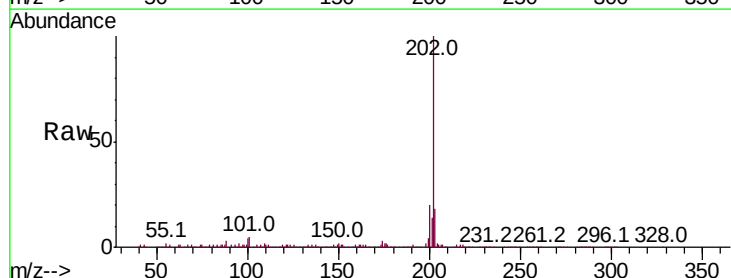
Tgt Ion:202 Resp: 216325

Ion Ratio Lower Upper

202 100

101 5.5 0.0 28.3

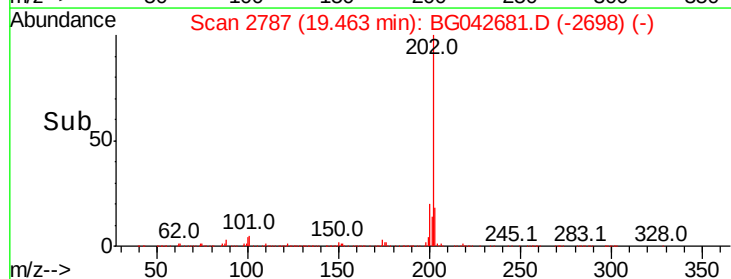
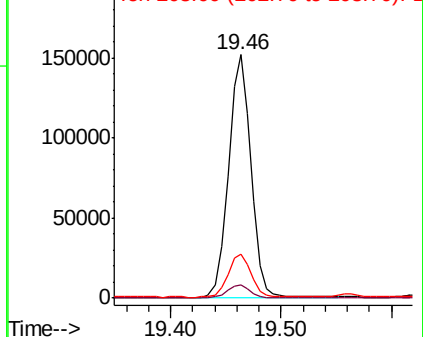
203 18.2 0.0 39.6

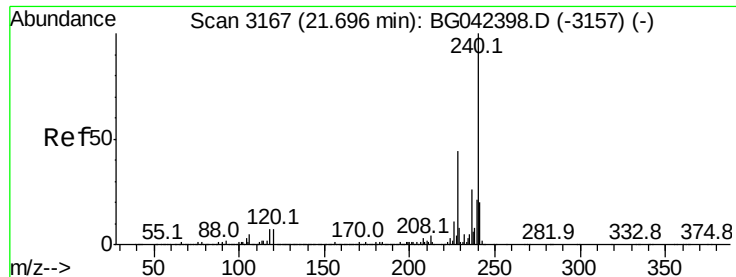


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Instrument :

BNA_G

ClientSampleId :

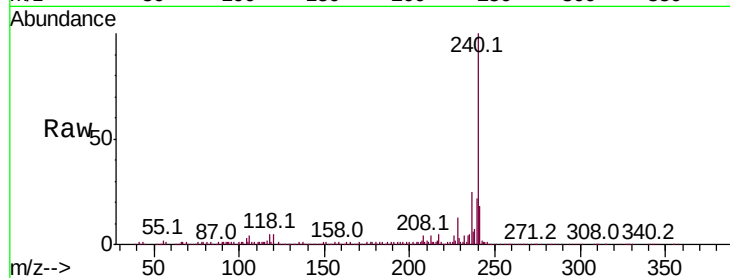
Tot Ion:240 Resp: 241552

Ion Ratio Lower Upper

240 100

120 5.5 5.7 8.5#

236 25.4 21.0 31.4

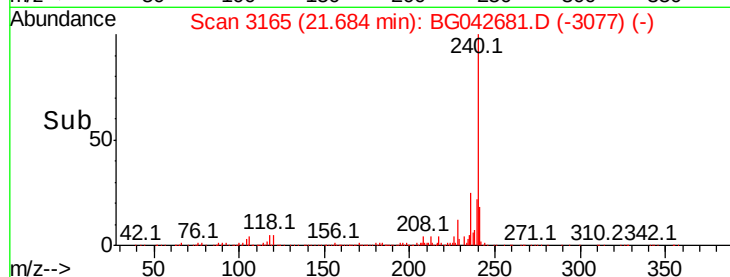


Abundance Ion 240.00 (239.70 to 240.70): E

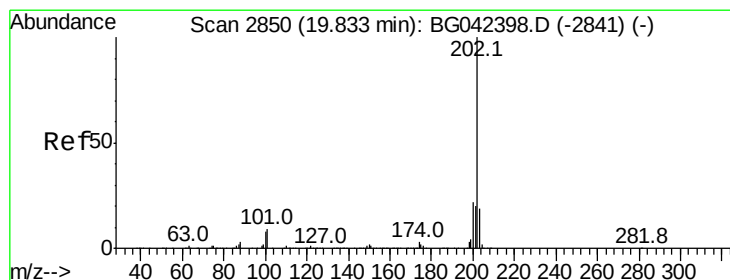
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

21.68



Time-->



#78

Pyrene

Concen: 13.075 ng

RT: 19.82 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

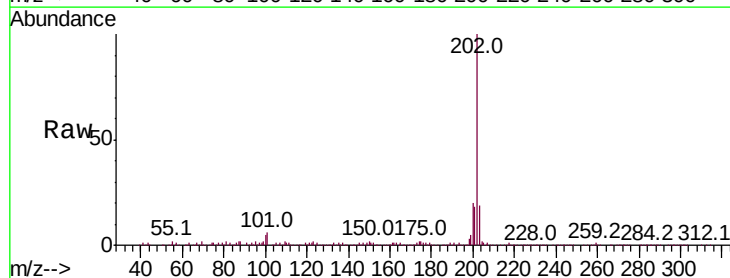
Tgt Ion:202 Resp: 193634

Ion Ratio Lower Upper

202 100

200 20.2 17.8 26.6

203 18.6 15.5 23.3

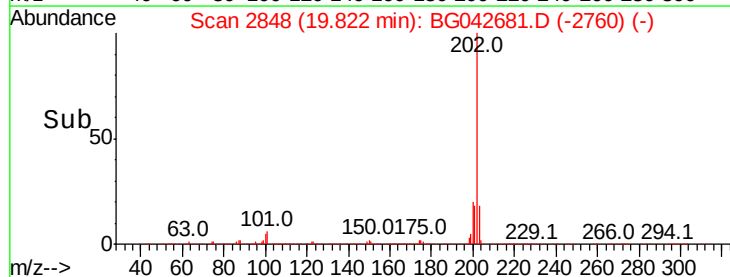


Abundance Ion 202.00 (201.70 to 202.70): E

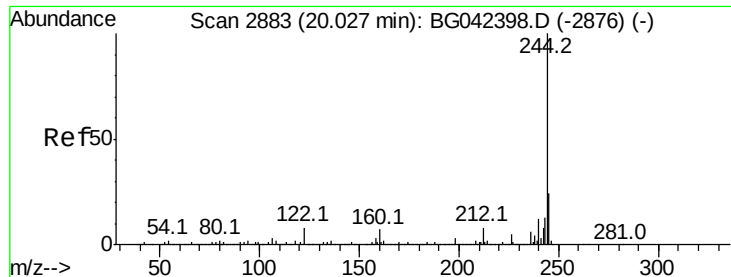
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

19.82



Time-->



#79

Terphenyl-d14

Concen: 60.846 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Instrument :

BNA_G

ClientSampleId :

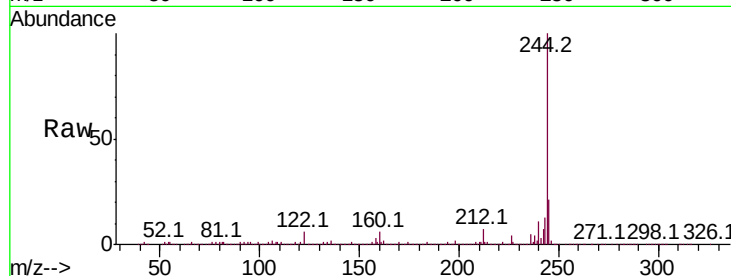
Tot Ion:244 Resp: 679837

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

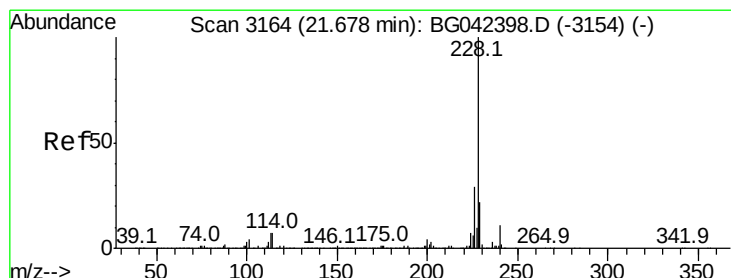
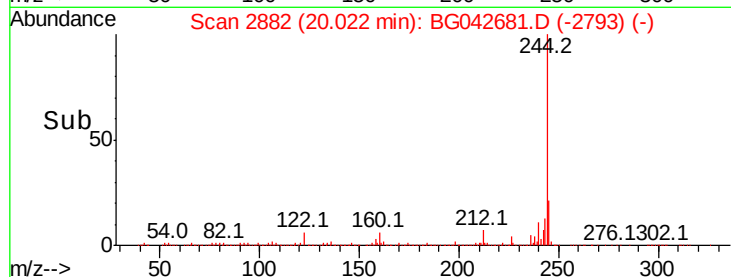
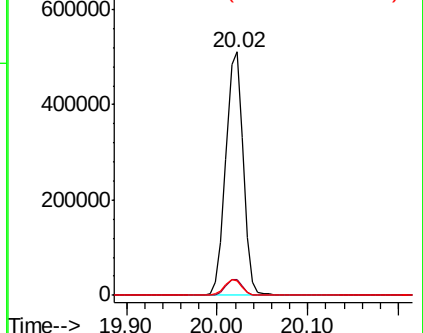
122 6.2 6.7 10.1#



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



#81

Benzo(a)anthracene

Concen: 9.415 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

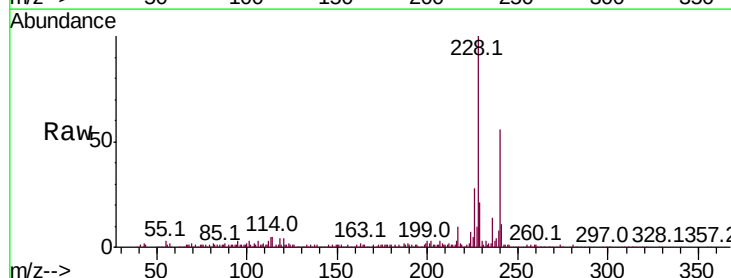
Tgt Ion:228 Resp: 138349

Ion Ratio Lower Upper

228 100

226 27.7 23.4 35.2

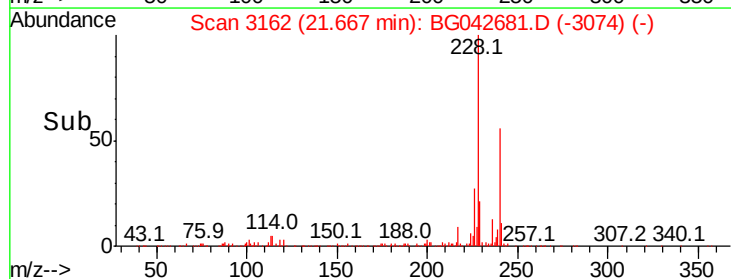
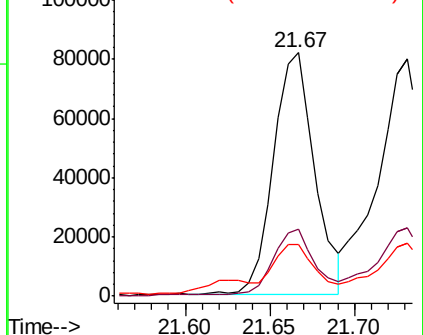
229 21.0 17.4 26.2

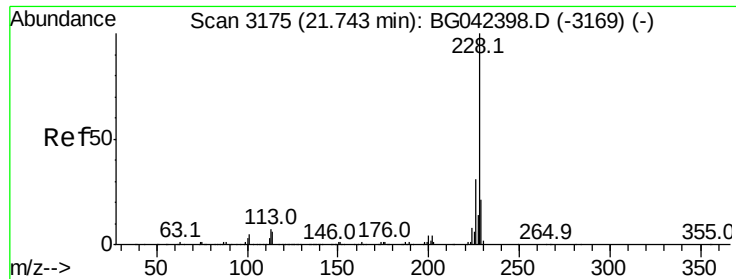


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

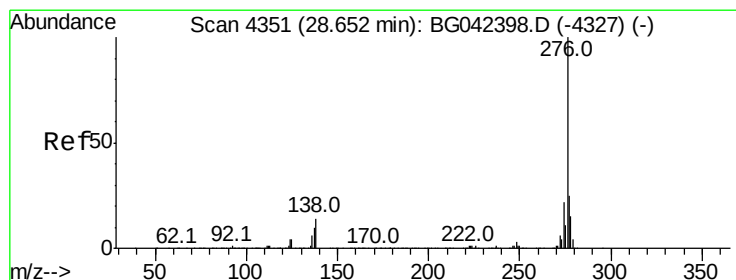
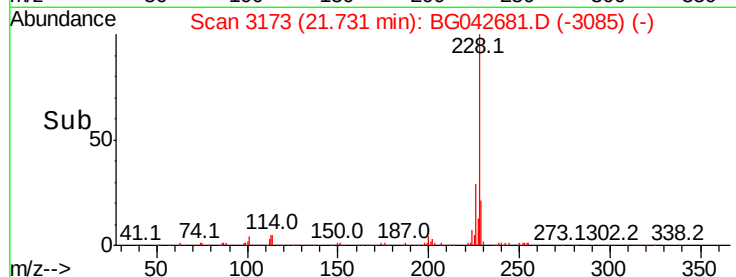
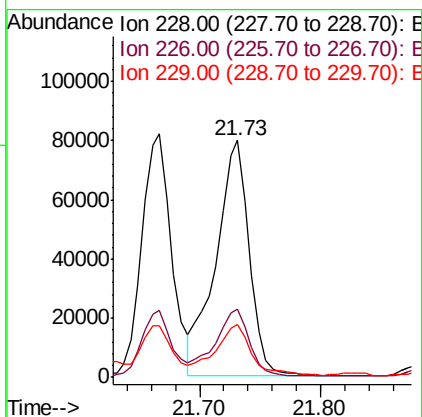
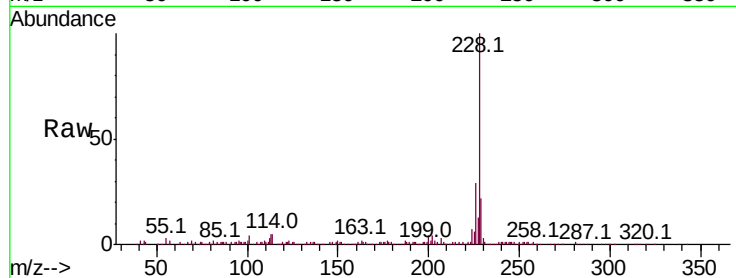




#83
Chrysene
Concen: 10.730 ng
RT: 21.73 min Scan# 3173
Delta R.T. -0.01 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

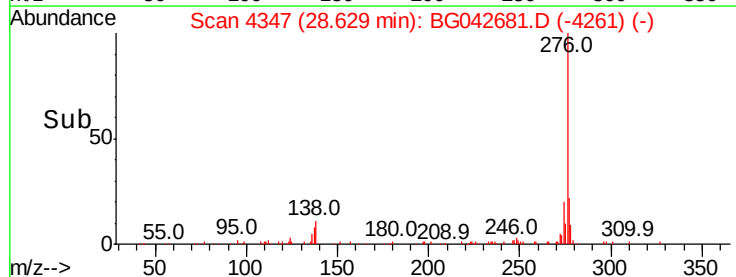
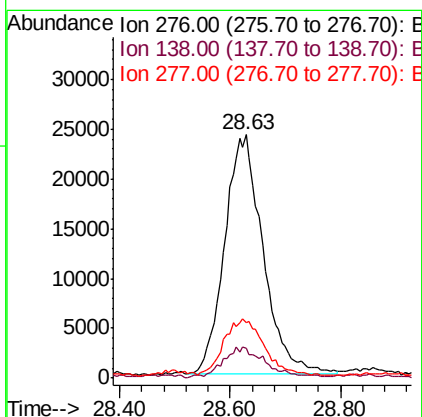
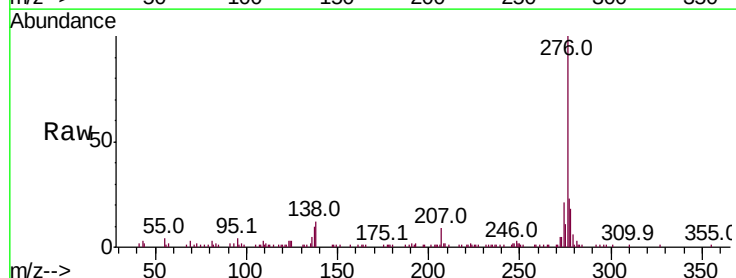
Instrument :
BNA_G
ClientSampleId :

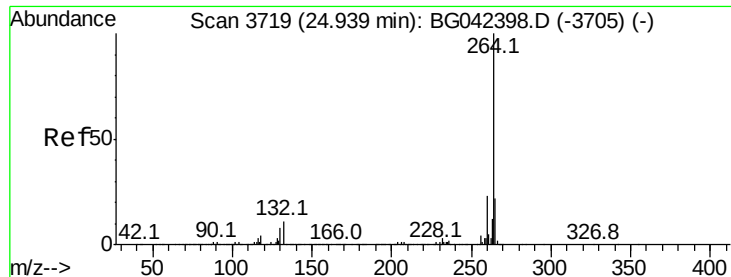
Tot Ion:228 Resp: 152052
Ion Ratio Lower Upper
228 100
226 28.9 24.9 37.3
229 22.1 16.9 25.3



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.964 ng
RT: 28.63 min Scan# 4347
Delta R.T. -0.02 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

Tgt Ion:276 Resp: 114859
Ion Ratio Lower Upper
276 100
138 14.9 9.2 13.8#
277 24.5 21.0 31.6





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.92 min Scan# 3716

Delta R.T. -0.02 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

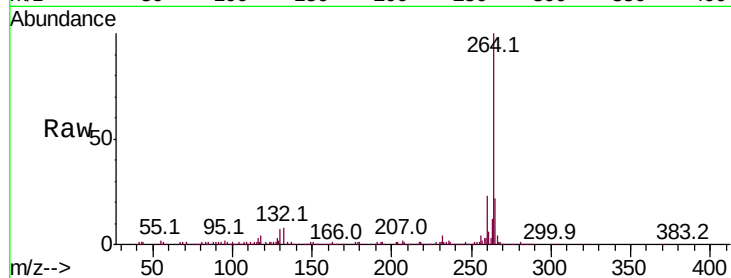
Instrument :

BNA_G

ClientSampled :

Tot Ion:264 Resp: 289057

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.5	27.7
265	22.1	17.6	26.4

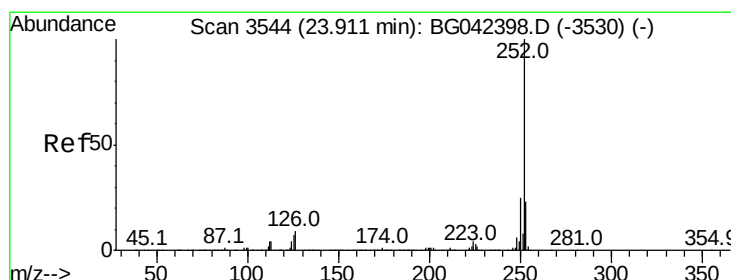
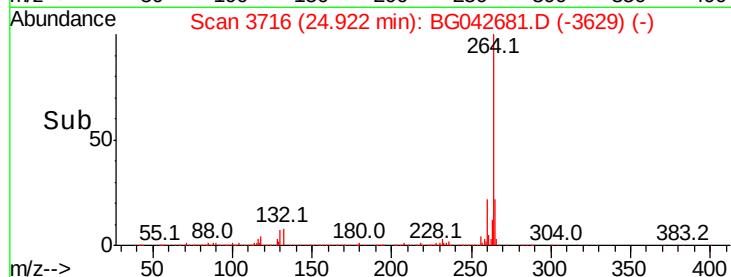
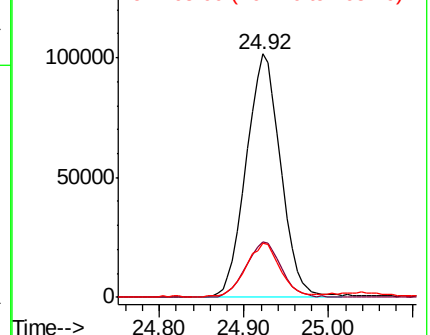


Abundance

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: 14.522 ng

RT: 23.90 min Scan# 3542

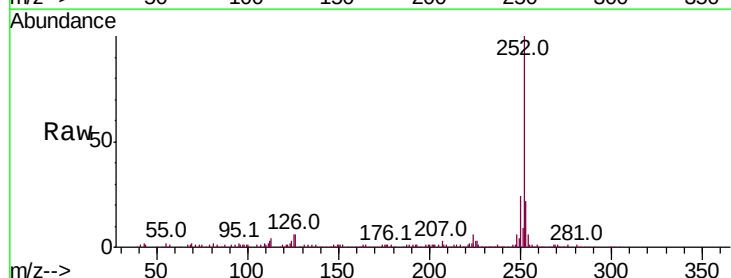
Delta R.T. -0.01 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Tgt Ion:252 Resp: 230769

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.6	27.8
125	5.9	5.6	8.4

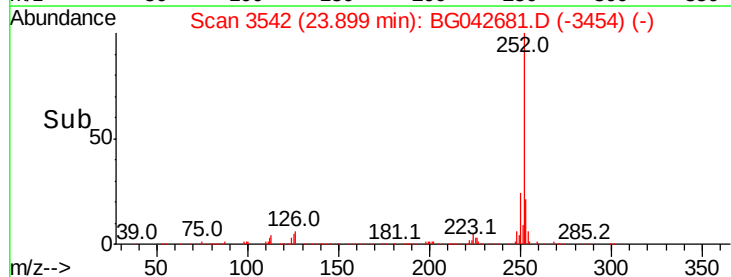
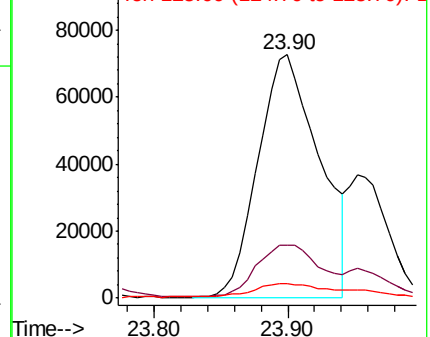


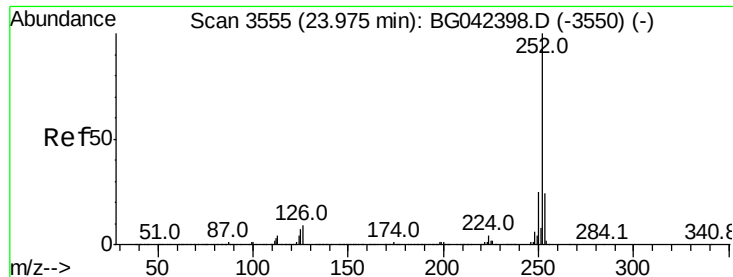
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

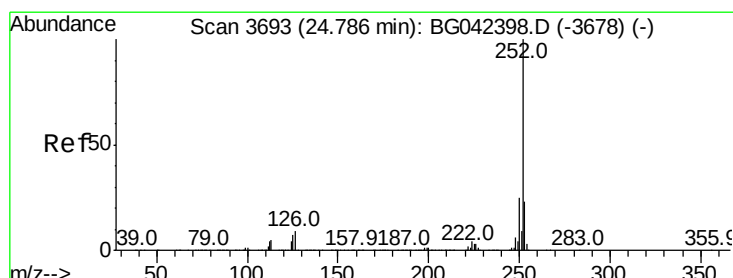
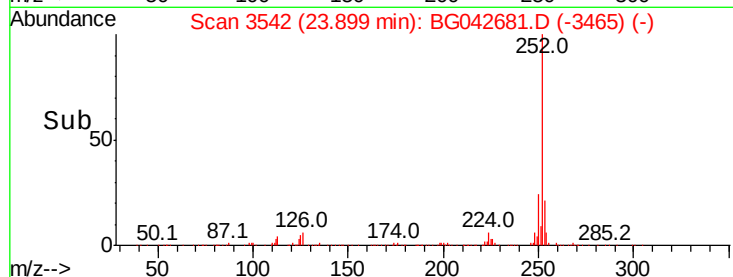
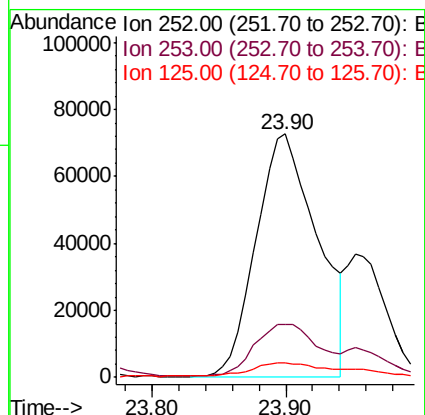
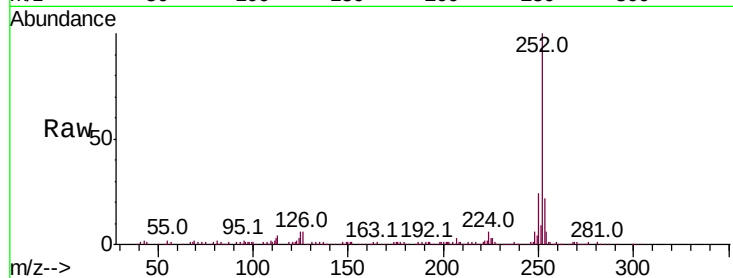




#89
Benzo(k)fluoranthene
Concen: 15.108 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.08 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

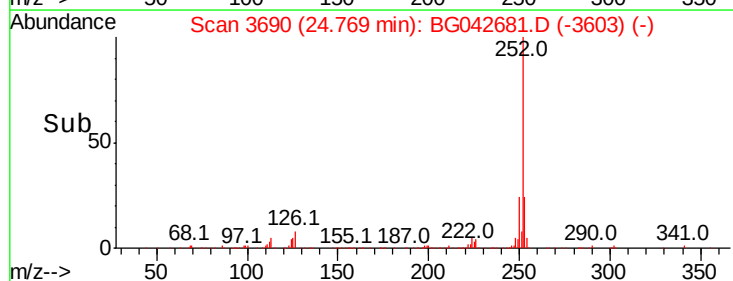
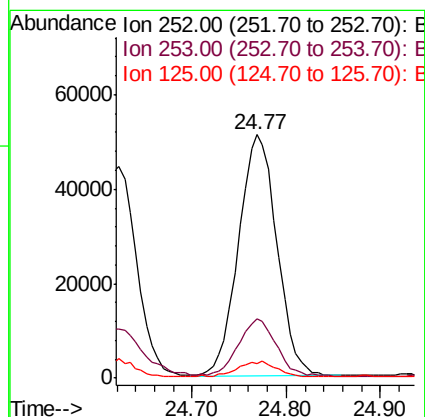
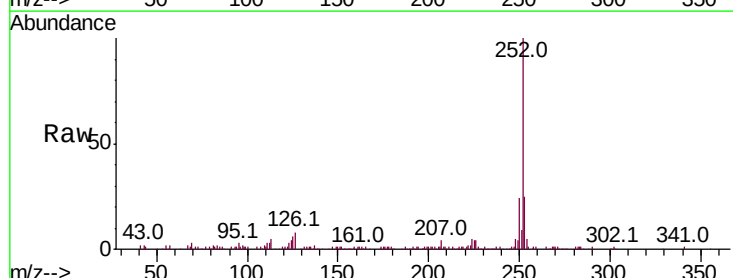
Instrument :
BNA_G
ClientSampled :

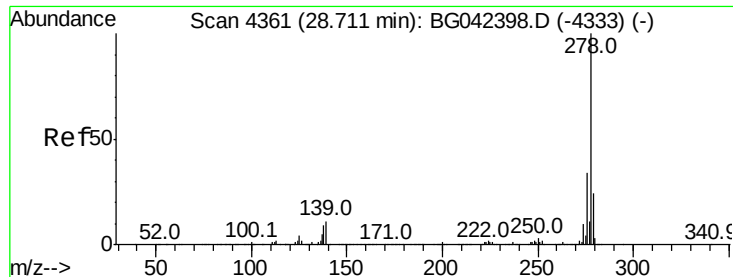
Tot Ion:252 Resp: 230769
Ion Ratio Lower Upper
252 100
253 21.8 18.6 27.8
125 5.9 5.8 8.6



#90
Benzo(a)pyrene
Concen: 9.595 ng
RT: 24.77 min Scan# 3690
Delta R.T. -0.02 min
Lab File: BG042681.D
Acq: 2 Sep 2019 3:37

Tgt Ion:252 Resp: 144688
Ion Ratio Lower Upper
252 100
253 24.5 18.4 27.6
125 6.2 6.0 9.0





#91

Dibenzo(a,h)anthracene

Concen: 2.096 ng

RT: 28.67 min Scan# 4354

Delta R.T. -0.04 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

Instrument :

BNA_G

ClientSampleId :

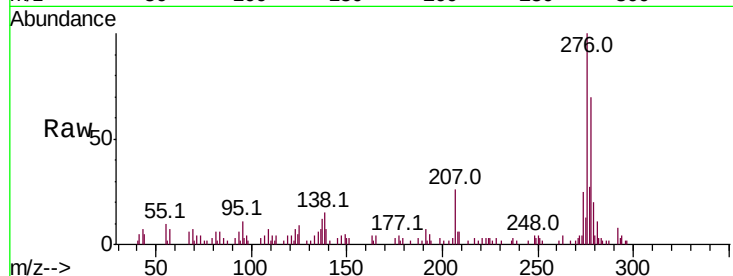
Tot Ion:278 Resp: 32006

Ion	Ratio	Lower	Upper
278	100		
139	9.8	8.8	13.2
279	28.3	19.1	28.7

278 100

139 9.8 8.8 13.2

279 28.3 19.1 28.7

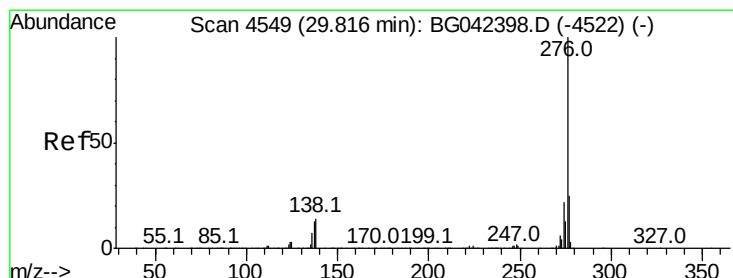
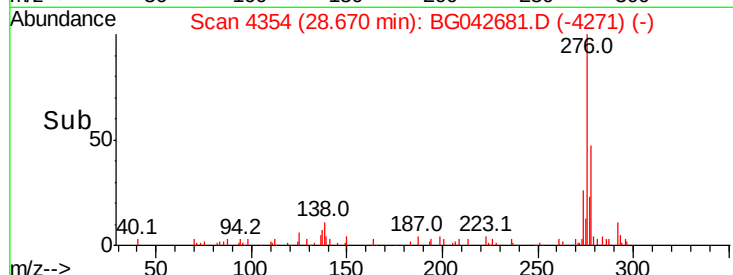
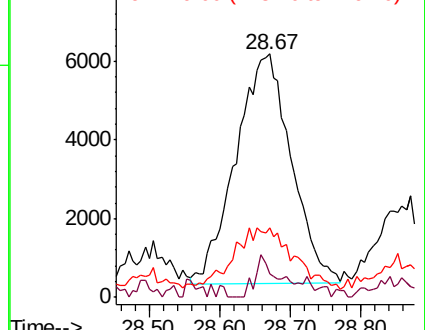


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 8.025 ng

RT: 29.79 min Scan# 4544

Delta R.T. -0.03 min

Lab File: BG042681.D

Acq: 2 Sep 2019 3:37

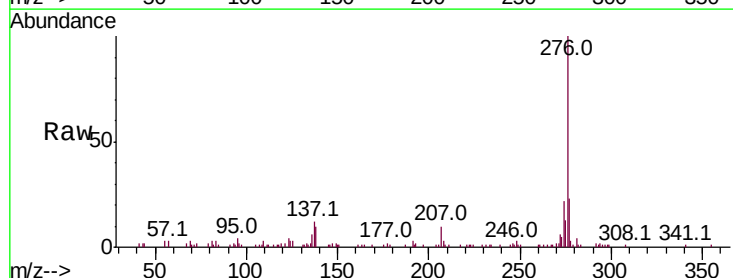
Tgt Ion:276 Resp: 122544

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.8	29.8
138	10.4	11.4	17.0

276 100

277 23.0 19.8 29.8

138 10.4 11.4 17.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

