

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082219\
 Data File : BG042420.D
 Acq On : 23 Aug 2019 3:19
 Operator : HP/JU
 Sample : K4089-03RE 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 23 05:31:57 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	107921	20.00	ng	0.00
21) Naphthalene-d8	10.82	136	491733	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	253536	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	486680	20.00	ng	0.00
76) Chrysene-d12	21.69	240	495875	20.00	ng	0.00
87) Perylene-d12	24.94	264	599010	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	39644	7.44	ng	0.00
7) Phenol-d6	7.17	99	58226	8.09	ng	0.00
23) Nitrobenzene-d5	9.18	82	27424	3.85	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	24789	6.88	ng	0.00
45) 2-Fluorobiphenyl	13.29	172	88444	5.90	ng	0.00
79) Terphenyl-d14	20.03	244	139242	6.07	ng	0.00

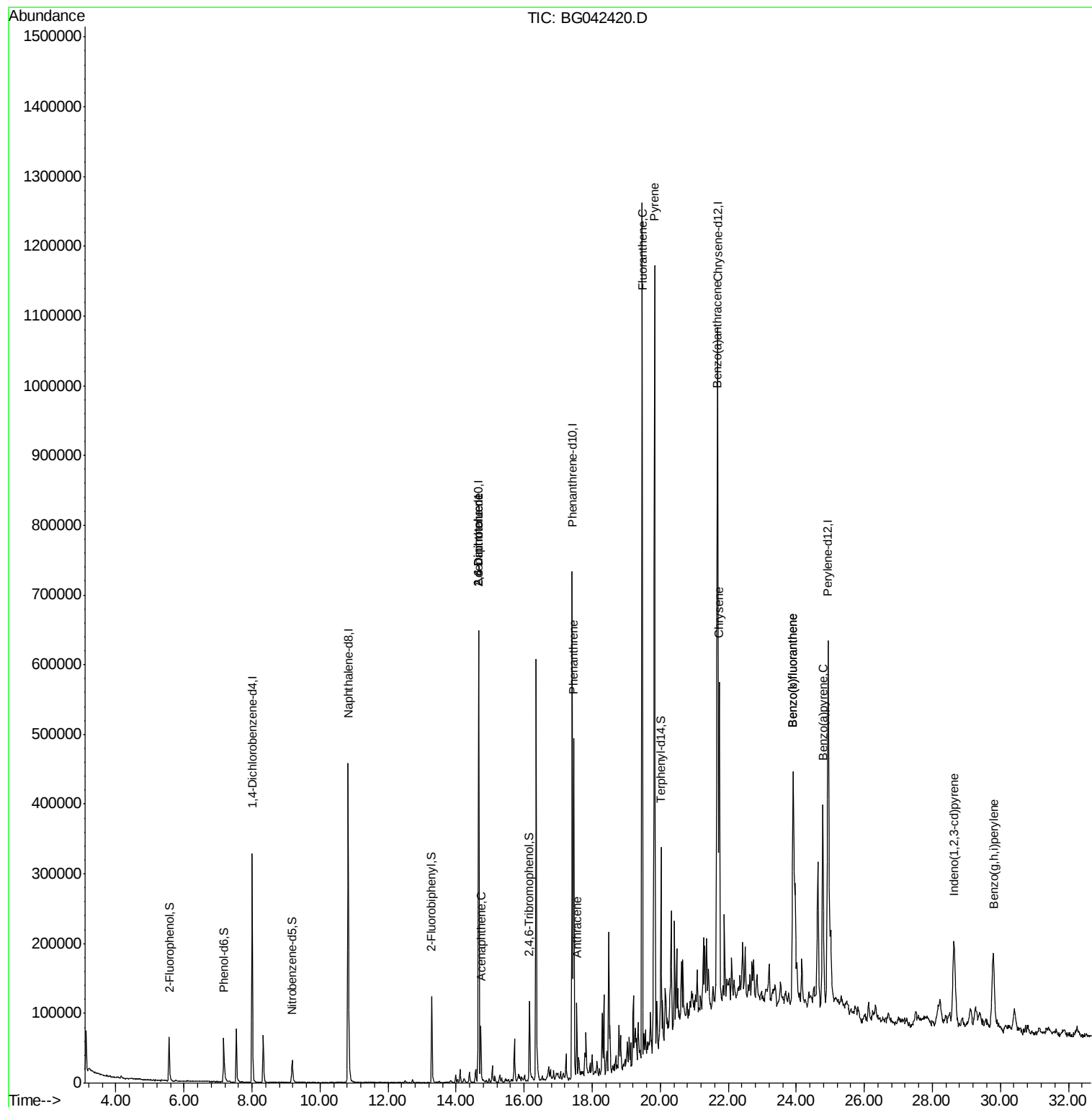
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) 2,6-Dinitrotoluene	14.66	165	33720	7.952	ng	# 38
52) Acenaphthene	14.73	154	32294	2.502	ng	98
57) 2,4-Dinitrotoluene	14.66	165	33720	5.553	ng	# 40
71) Phenanthrene	17.46	178	332699	13.763	ng	98
72) Anthracene	17.55	178	76772	3.181	ng	99
75) Fluoranthene	19.47	202	820350	27.806	ng	99
78) Pyrene	19.83	202	764889	25.159	ng	99
81) Benzo(a)anthracene	21.67	228	353593	11.722	ng	99
83) Chrysene	21.74	228	342413	11.770	ng	98
86) Indeno(1,2,3-cd)pyrene	28.63	276	224229	5.672	ng	# 96
88) Benzo(b)fluoranthene	23.90	252	451534	13.711	ng	99
89) Benzo(k)fluoranthene	23.90	252	451534	14.265	ng	99
90) Benzo(a)pyrene	24.78	252	339357	10.860	ng	99
92) Benzo(a,h,i)perylene	29.80	276	237419	7.503	ng	96

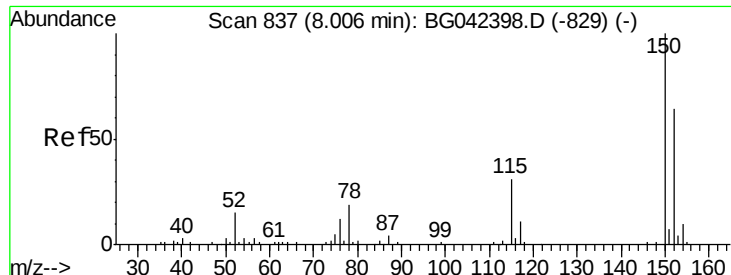
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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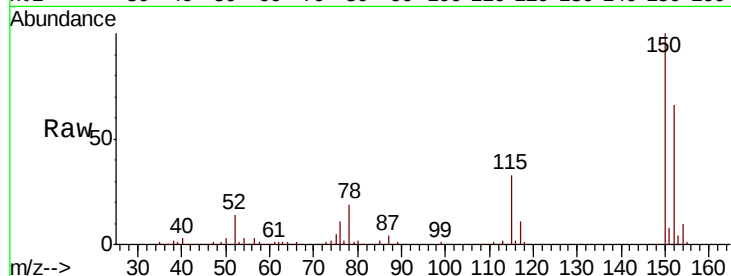


#1

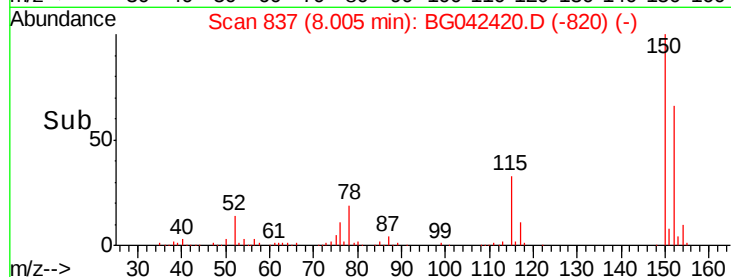
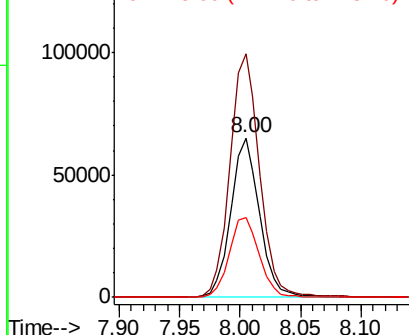
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 837
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.5	125.4	188.0
115	50.3	38.5	57.7



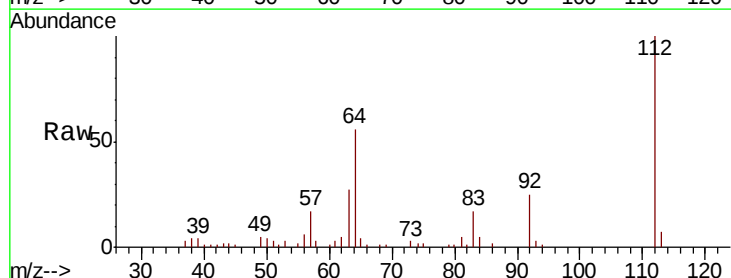
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



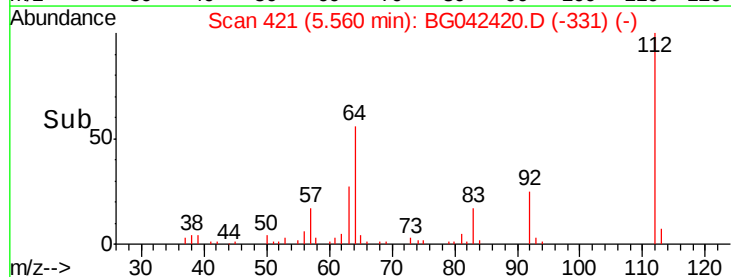
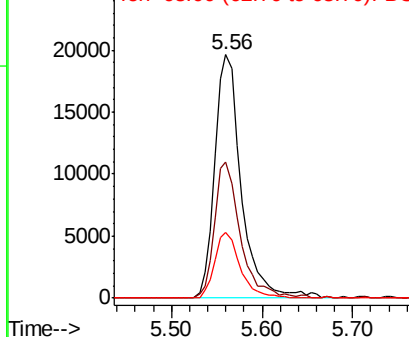
#5

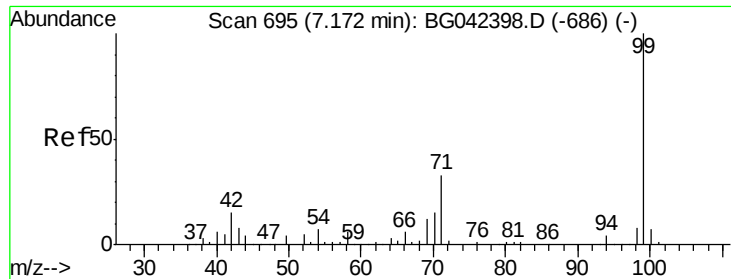
2-Fluorophenol
Concen: 7.440 ng
RT: 5.56 min Scan# 421
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	42.8	64.2
63	26.9	22.7	34.1



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





#7

Phenol-d6

Concen: 8.089 ng

RT: 7.17 min Scan# 695

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

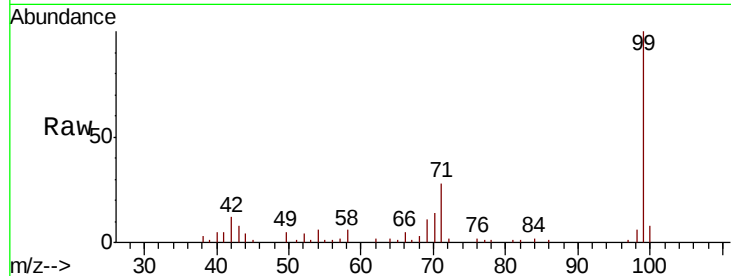
Tot Ion: 99 Resp: 58226

Ion Ratio Lower Upper

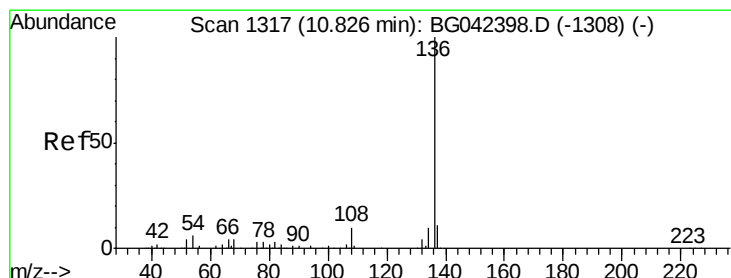
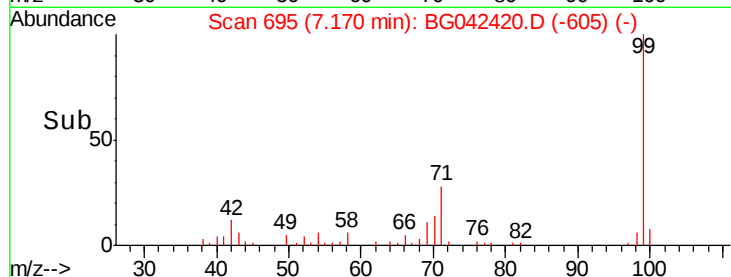
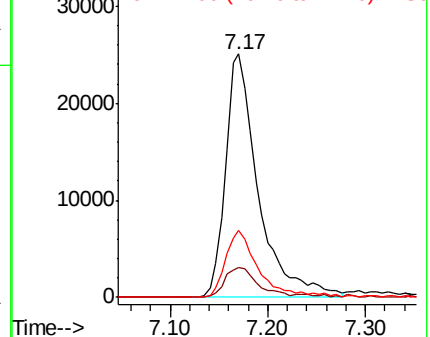
99 100

42 12.1 12.0 18.0

71 27.6 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.82 min Scan# 1317

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion: 136 Resp: 491733

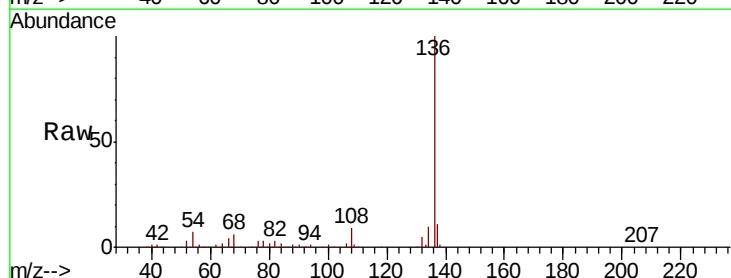
Ion Ratio Lower Upper

136 100

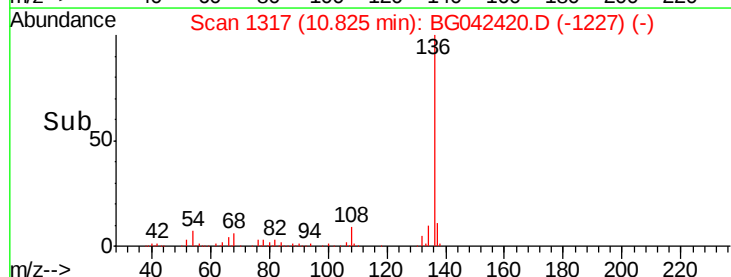
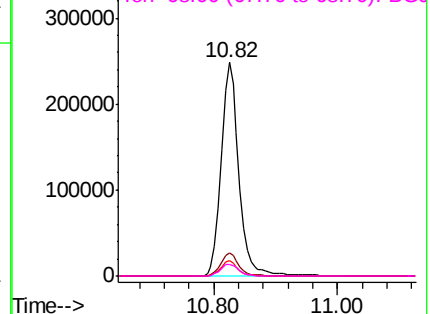
137 11.1 8.7 13.1

54 7.1 4.9 7.3

68 5.5 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

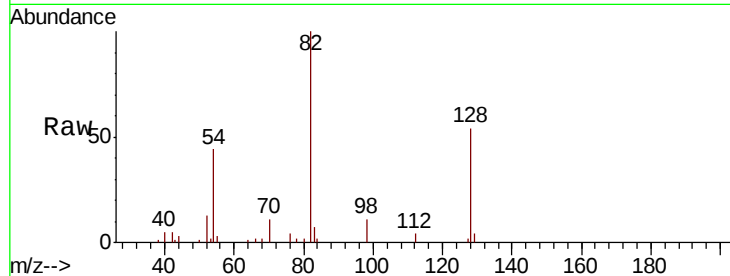




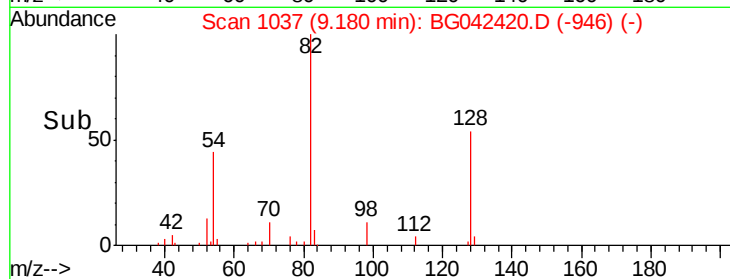
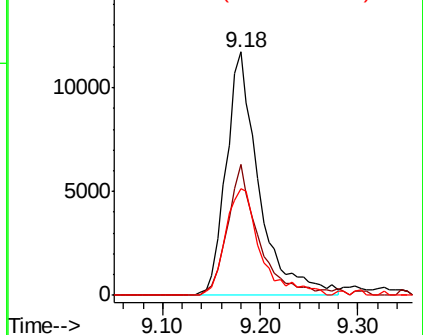
#23
Nitrobenzene-d5
Concen: 3.854 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Instrument :
BNA_G
ClientSampleId :

Tot Ion	82	Resp	27424
Ion Ratio	Lower	Upper	
82	100		
128	53.7	40.7	61.1
54	43.9	36.3	54.5

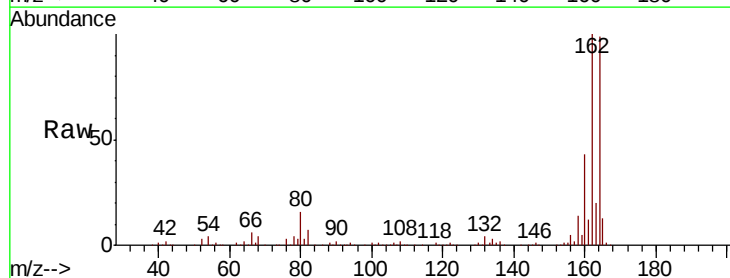


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

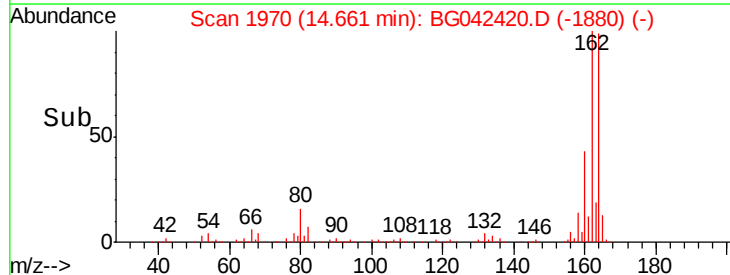
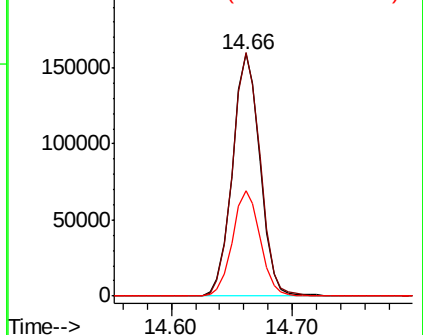


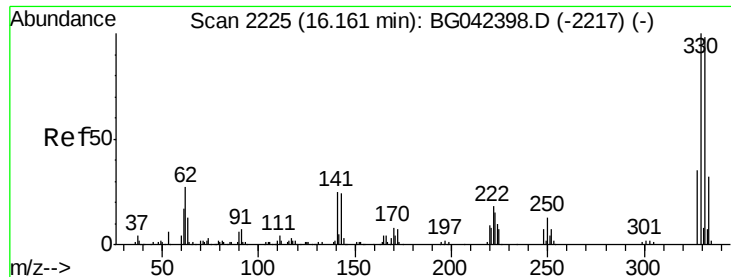
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1970
Delta R.T. -0.00 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	164	Resp	253536
Ion Ratio	Lower	Upper	
164	100		
162	100.6	79.9	119.9
160	43.5	34.3	51.5



Abundance Ion 164.00 (163.70 to 164.70): BGC
Ion 162.00 (161.70 to 162.70): BGC
Ion 160.00 (159.70 to 160.70): BGC





#42

2,4,6-Tribromophenol

Concen: 6.879 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

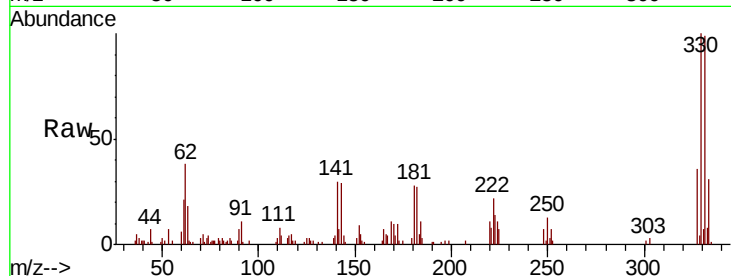
Tot Ion:330 Resp: 24789

Ion Ratio Lower Upper

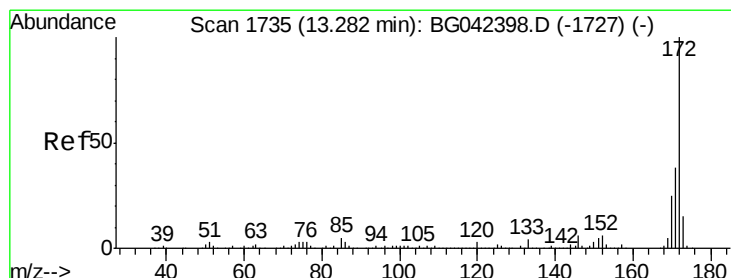
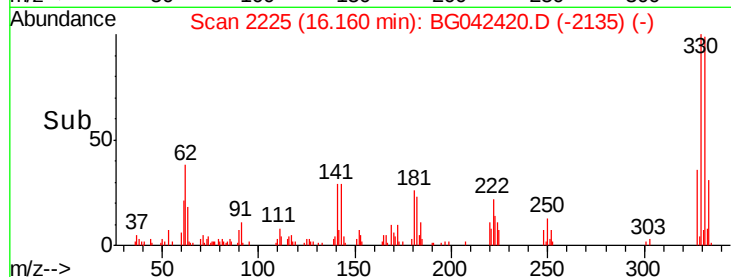
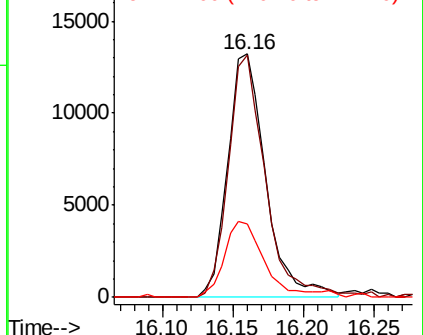
330 100

332 97.7 77.4 116.0

141 31.7 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: 5.900 ng

RT: 13.29 min Scan# 1736

Delta R.T. 0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

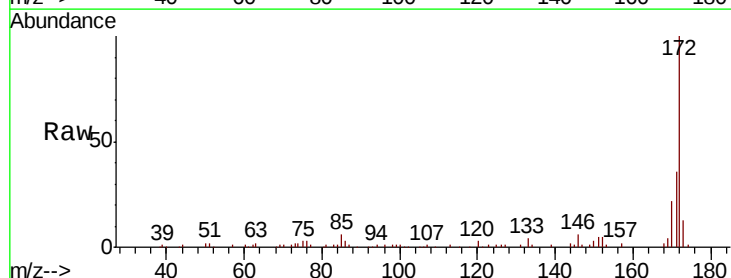
Tgt Ion:172 Resp: 88444

Ion Ratio Lower Upper

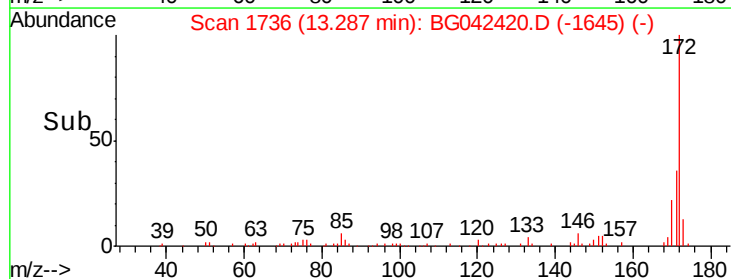
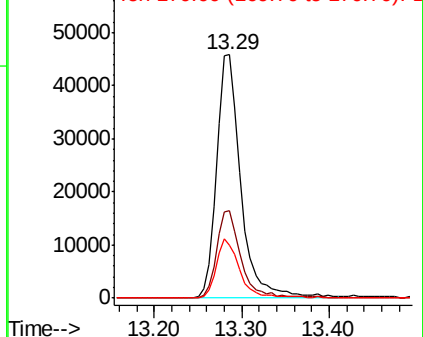
172 100

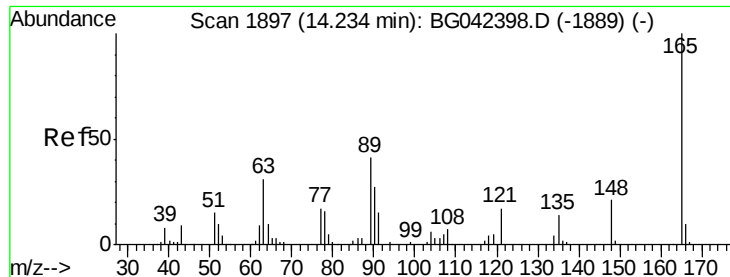
171 36.1 30.5 45.7

170 21.6 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

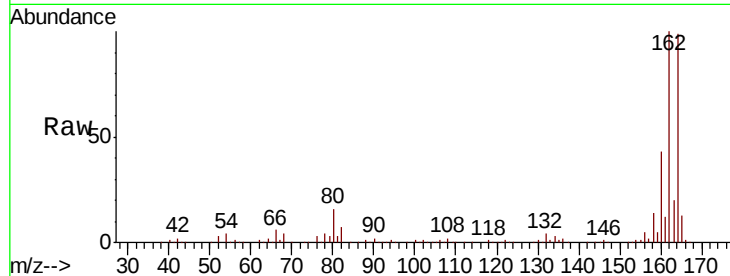




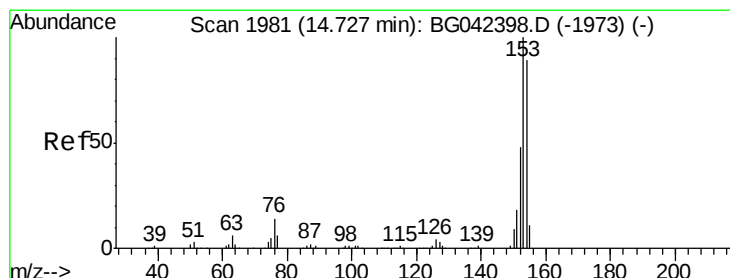
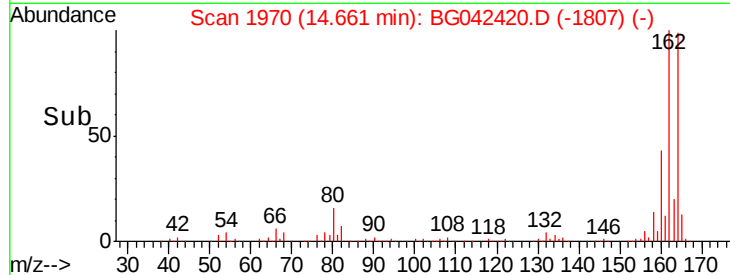
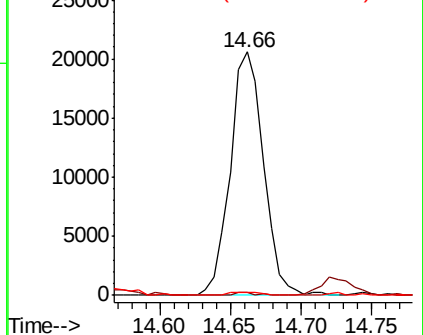
#51
 2,6-Dinitrotoluene
 Concen: 7.952 ng
 RT: 14.66 min Scan# 1970
 Delta R.T. 0.43 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	30.6	45.8#
89	1.3	32.6	49.0#

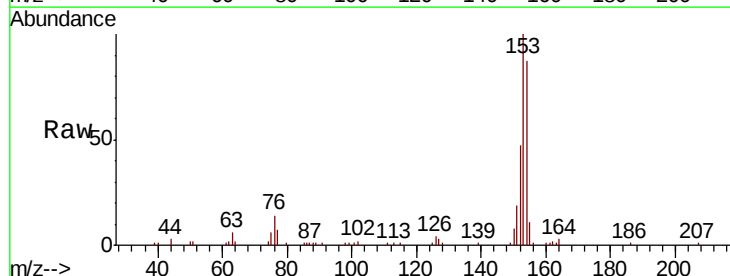


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC

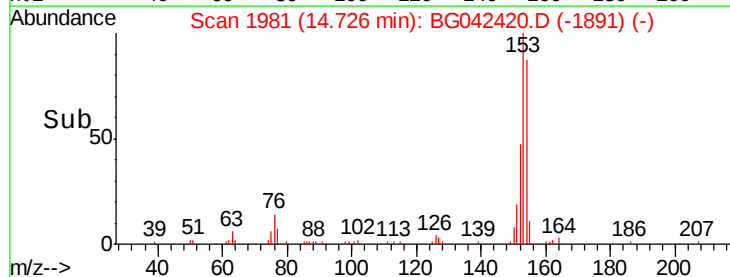
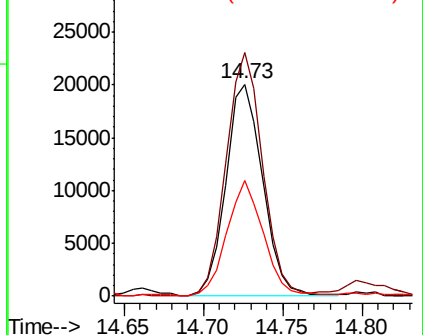


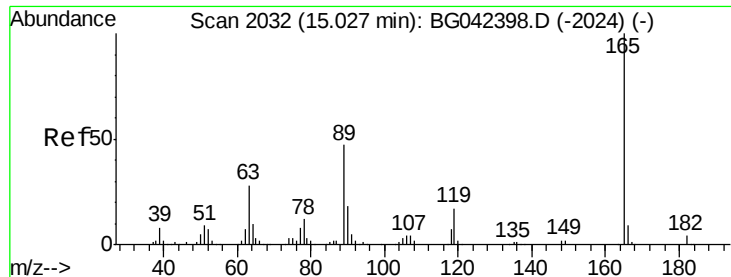
#52
 Acenaphthene
 Concen: 2.502 ng
 RT: 14.73 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.9	90.2	135.4
152	54.5	43.2	64.8



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

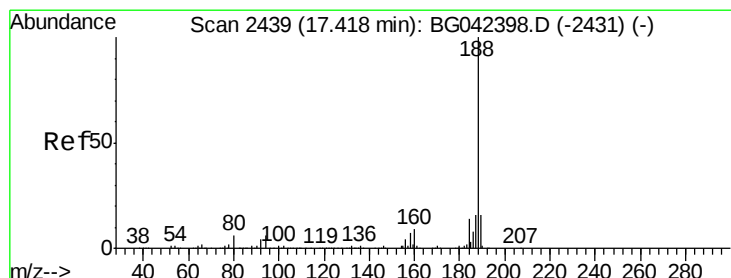
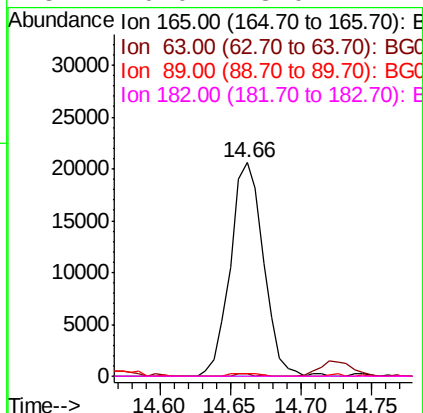
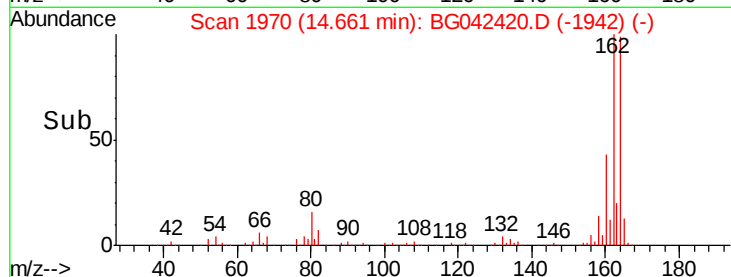
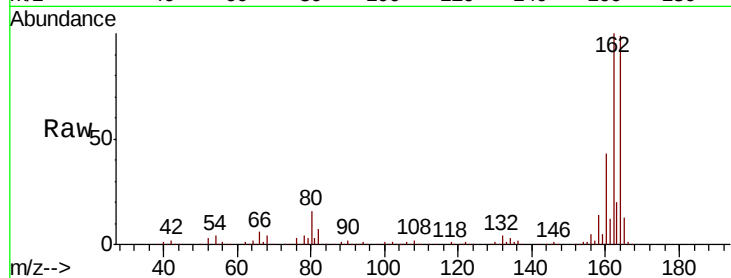




#57
 2,4-Dinitrotoluene
 Concen: 5.553 ng
 RT: 14.66 min Scan# 1970
 Delta R.T. -0.37 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

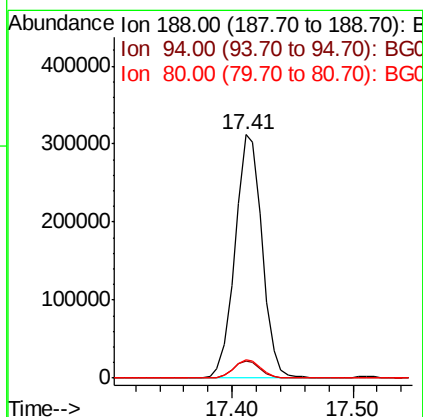
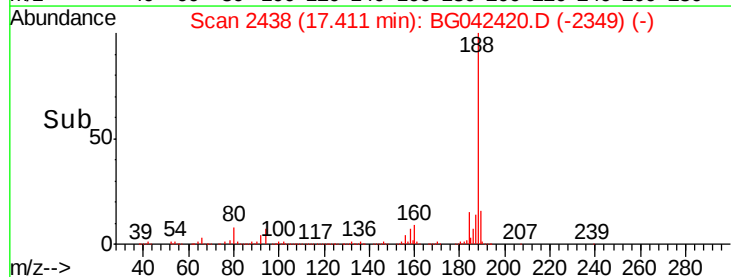
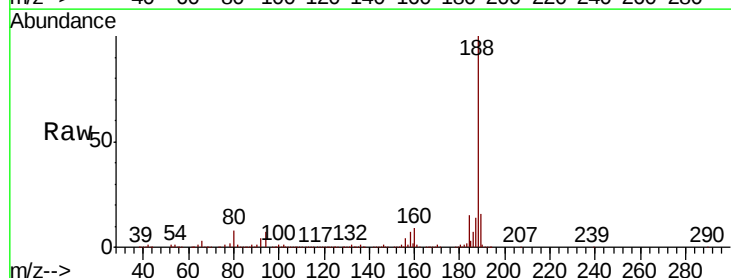
Instrument :
 BNA_G
 ClientSampleId :

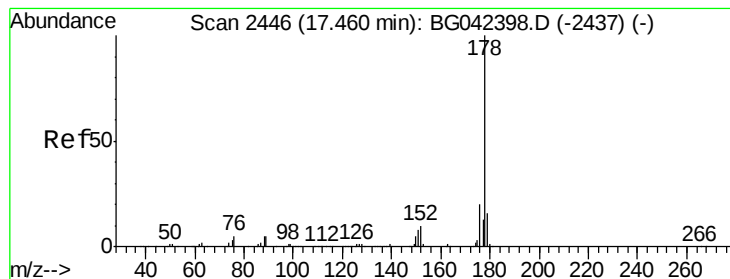
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	22.5	33.7#
89	1.3	37.8	56.6#
182	0.0	3.0	4.4#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.41 min Scan# 2438
 Delta R.T. -0.01 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.1	4.5	6.7#
80	7.7	4.9	7.3#





#71

Phenanthrene

Concen: 13.763 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

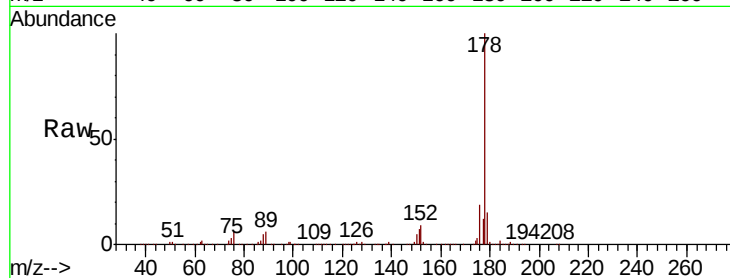
Tot Ion:178 Resp: 332699

Ion Ratio Lower Upper

178 100

176 19.0 15.9 23.9

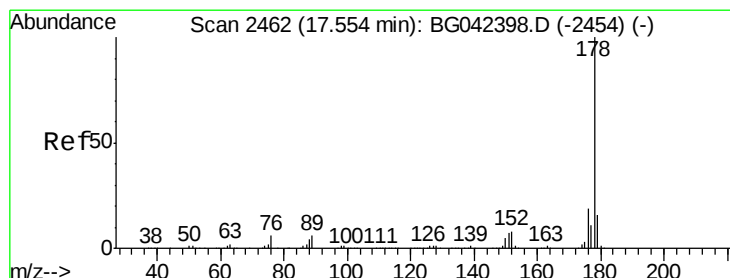
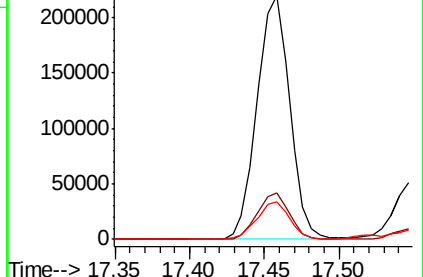
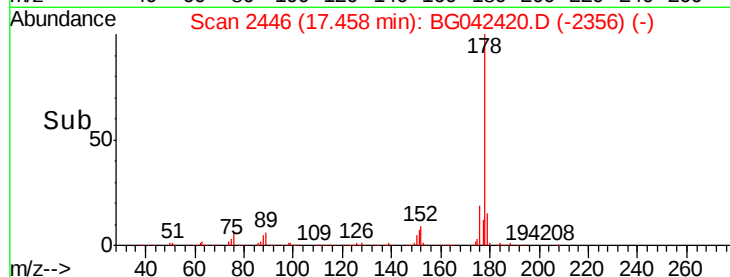
179 15.4 12.7 19.1



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: 3.181 ng

RT: 17.55 min Scan# 2461

Delta R.T. -0.01 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

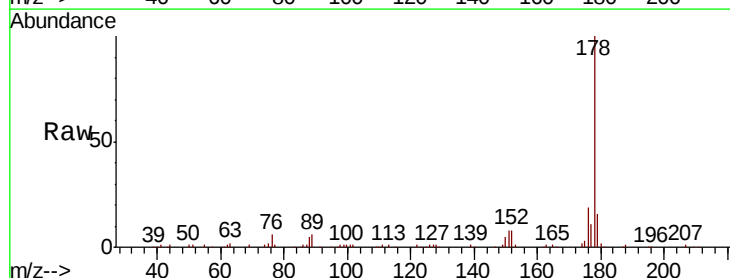
Tgt Ion:178 Resp: 76772

Ion Ratio Lower Upper

178 100

176 18.9 15.5 23.3

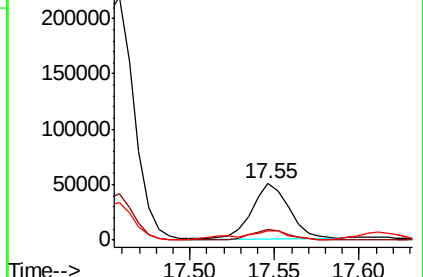
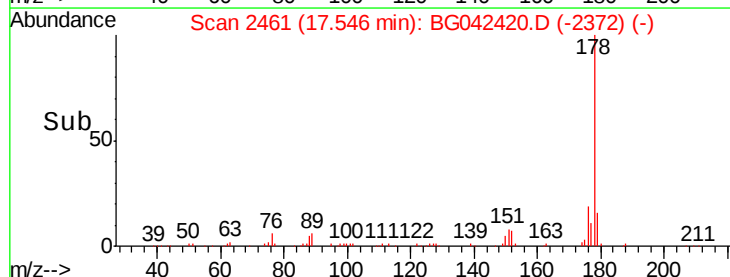
179 16.2 12.9 19.3

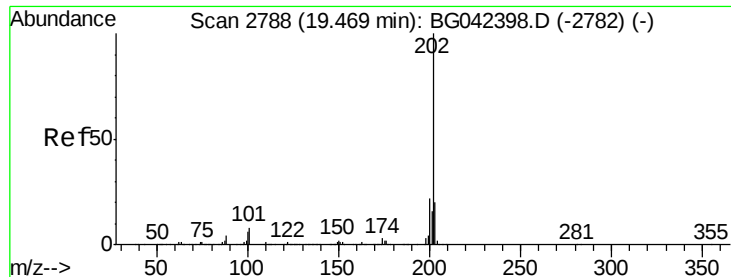


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 27.806 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.00 min

Lab File: BG042420.D

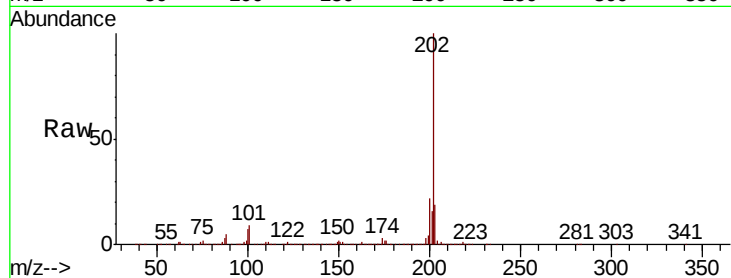
Acq: 23 Aug 2019 3:19

Instrument :

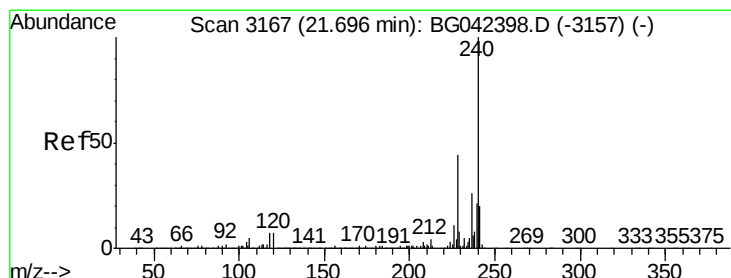
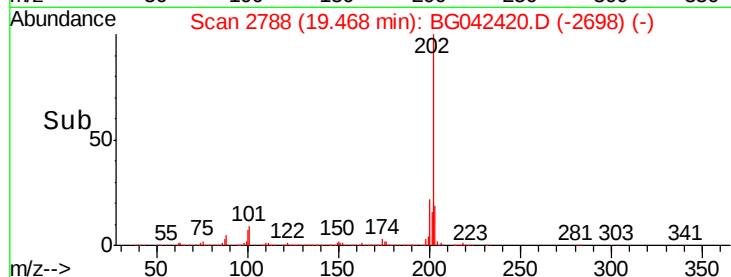
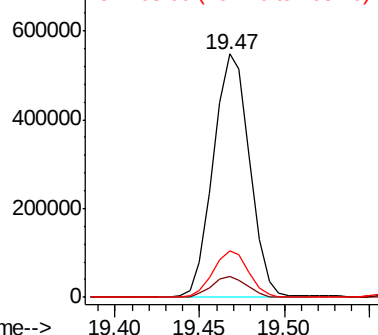
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	820350
Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	28.3
203	19.3	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

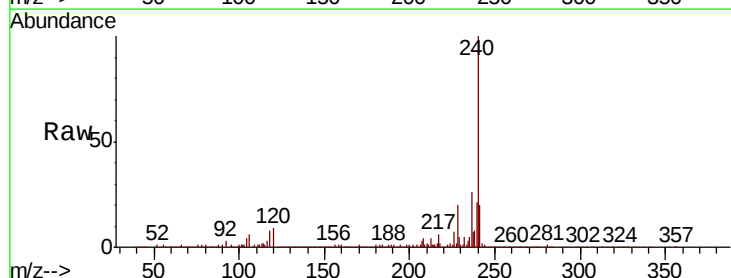
RT: 21.69 min Scan# 3166

Delta R.T. -0.01 min

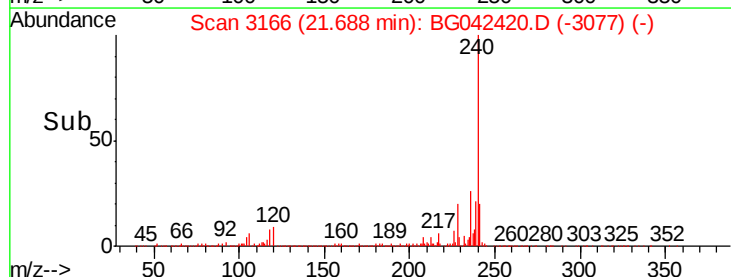
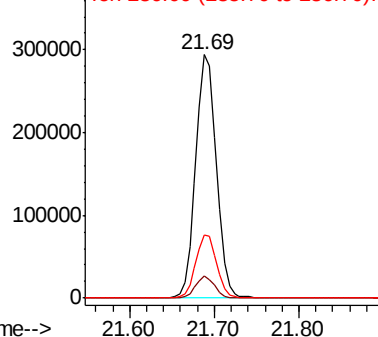
Lab File: BG042420.D

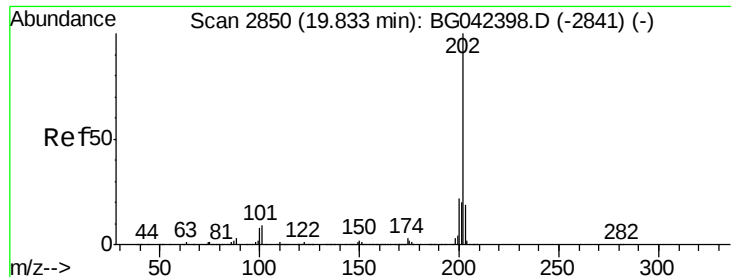
Acq: 23 Aug 2019 3:19

Tgt Ion:	240	Resp:	495875
Ion	Ratio	Lower	Upper
240	100		
120	8.9	5.7	8.5#
236	25.9	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: 25.159 ng

RT: 19.83 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

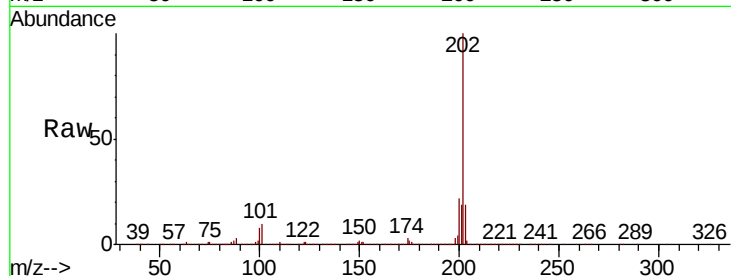
Tot Ion:202 Resp: 764889

Ion Ratio Lower Upper

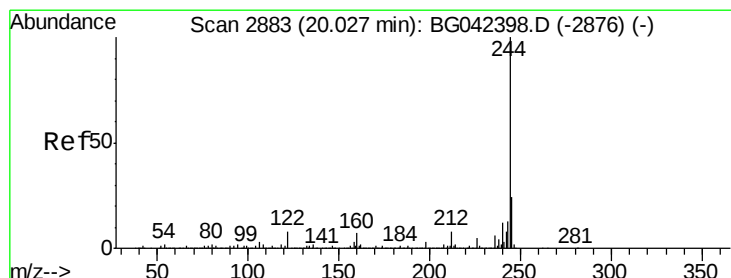
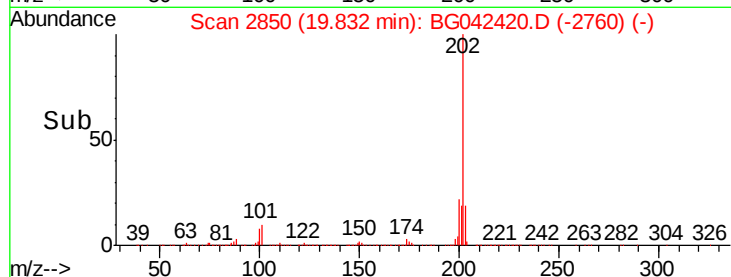
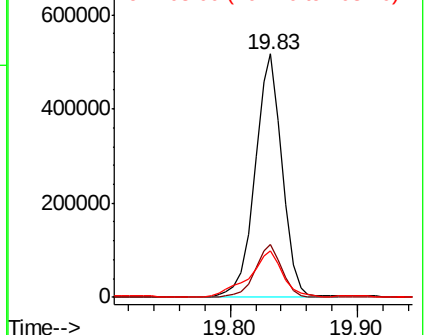
202 100

200 21.7 17.8 26.6

203 19.1 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



#79

Terphenyl-d14

Concen: 6.071 ng

RT: 20.03 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

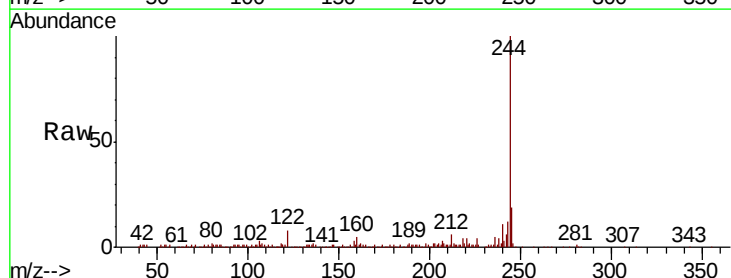
Tgt Ion:244 Resp: 139242

Ion Ratio Lower Upper

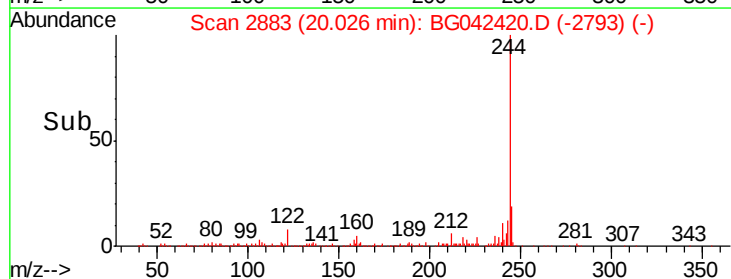
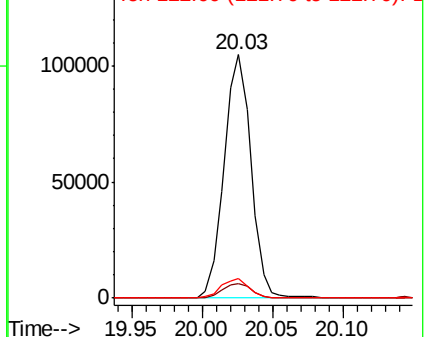
244 100

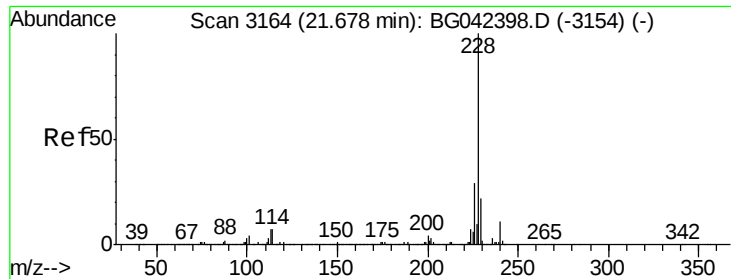
212 5.8 6.0 9.0#

122 7.8 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

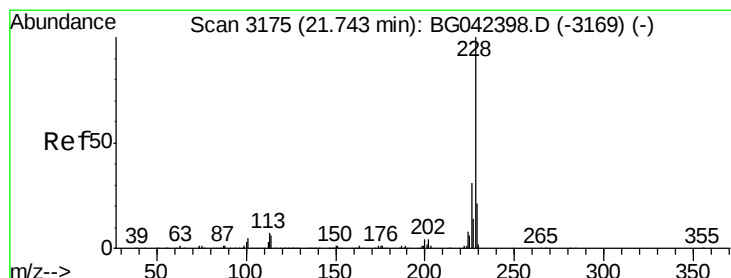
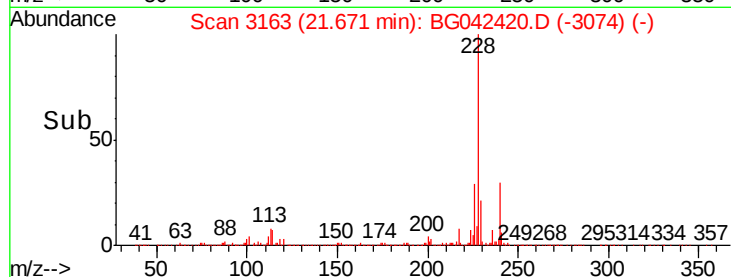
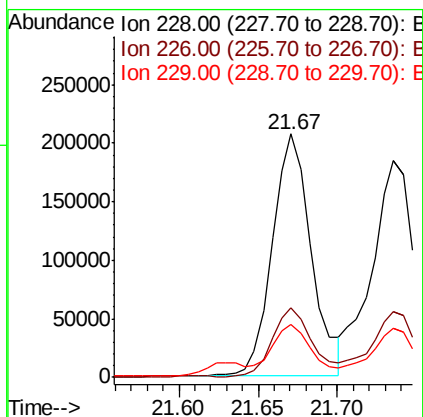
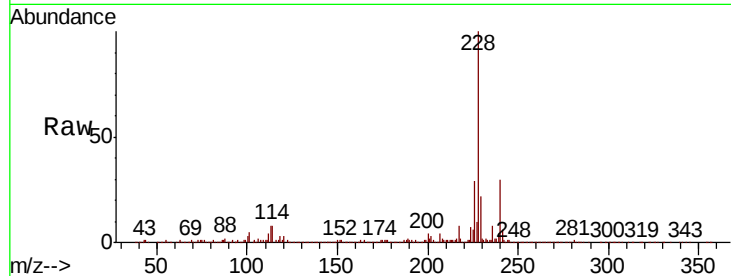




#81
Benzo(a)anthracene
Concen: 11.722 ng
RT: 21.67 min Scan# 3163
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

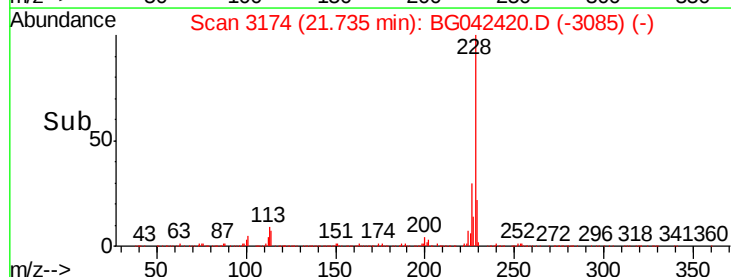
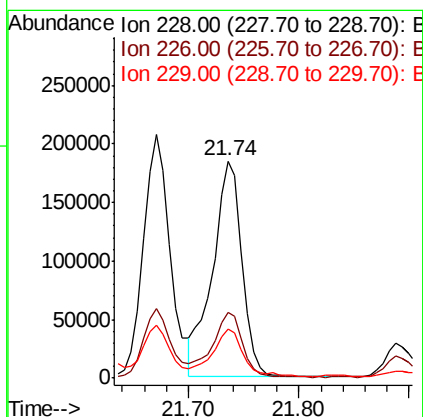
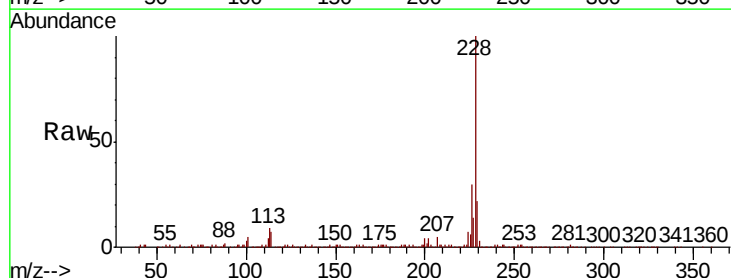
Instrument :
BNA_G
ClientSampleId :

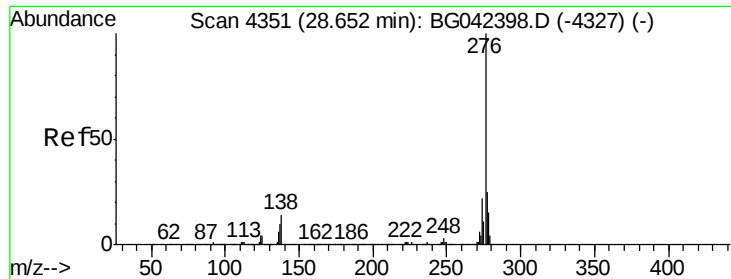
Tot Ion:228 Resp: 353593
Ion Ratio Lower Upper
228 100
226 28.8 23.4 35.2
229 21.5 17.4 26.2



#83
Chrysene
Concen: 11.770 ng
RT: 21.74 min Scan# 3174
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion:228 Resp: 342413
Ion Ratio Lower Upper
228 100
226 30.1 24.9 37.3
229 22.4 16.9 25.3

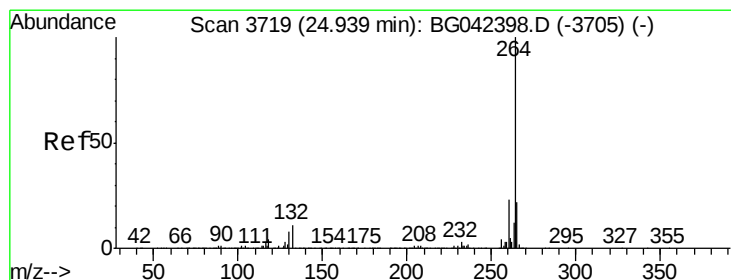
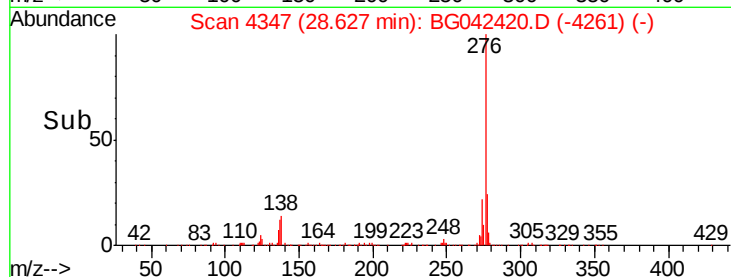
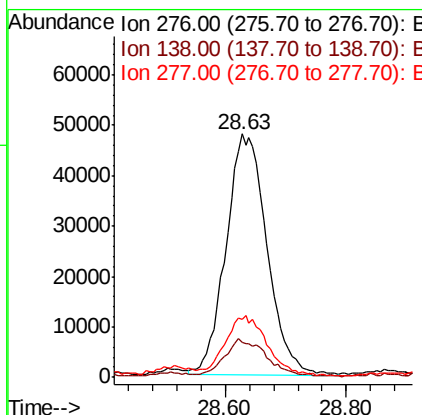
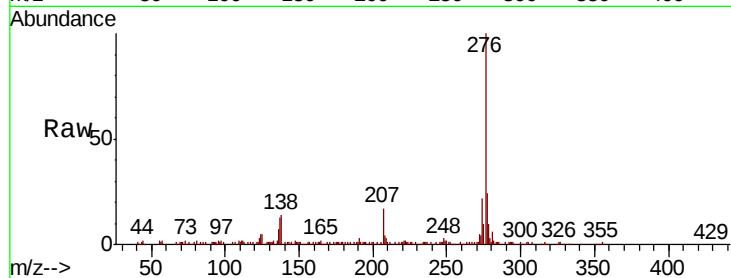




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.672 ng
 RT: 28.63 min Scan# 4347
 Delta R.T. -0.02 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

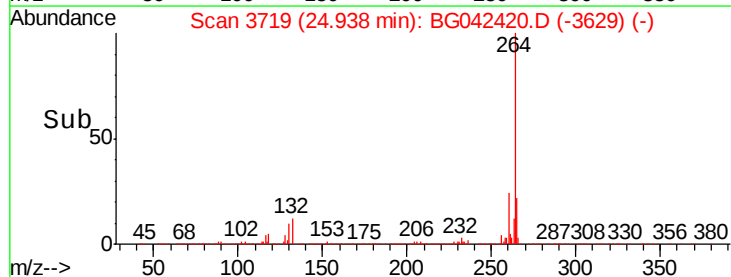
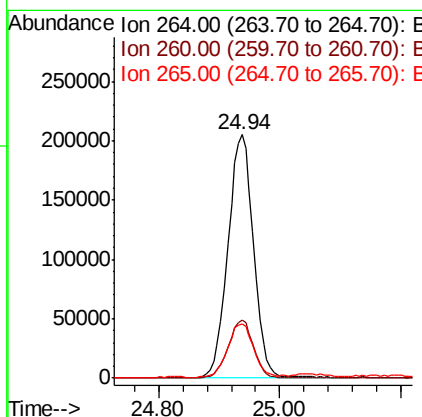
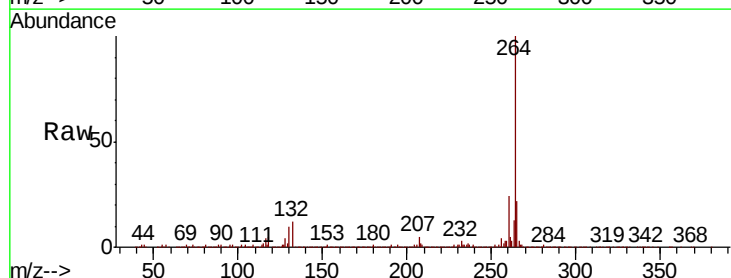
Instrument :
 BNA_G
 ClientSampleId :

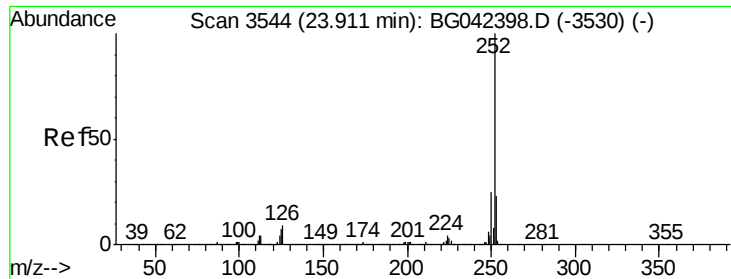
Tot Ion:276 Resp: 224229
 Ion Ratio Lower Upper
 276 100
 138 15.3 9.2 13.8#
 277 25.4 21.0 31.6



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.94 min Scan# 3719
 Delta R.T. -0.00 min
 Lab File: BG042420.D
 Acq: 23 Aug 2019 3:19

Tgt Ion:264 Resp: 599010
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.5 27.7
 265 22.2 17.6 26.4

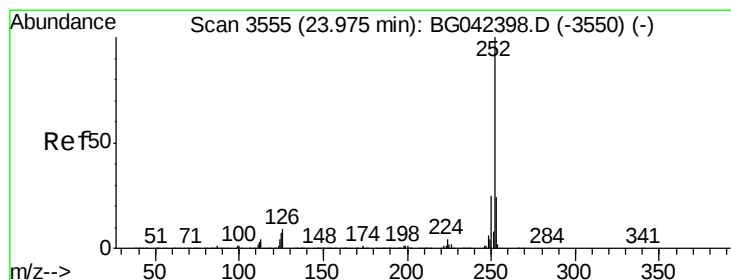
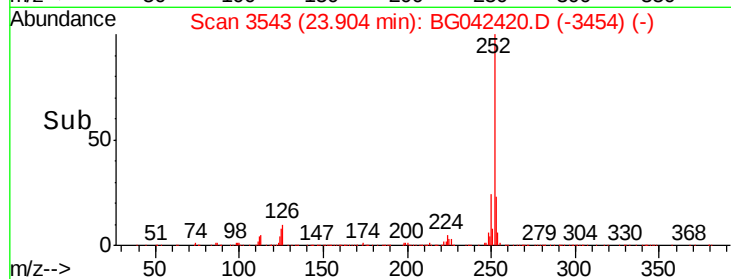
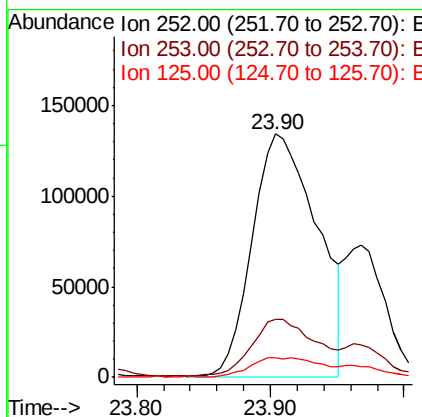
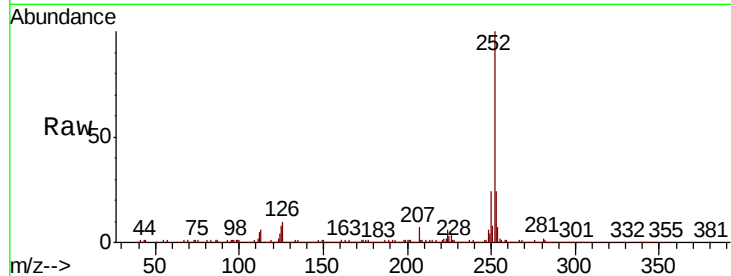




#88
Benzo(b)fluoranthene
Concen: 13.711 ng
RT: 23.90 min Scan# 3543
Delta R.T. -0.01 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

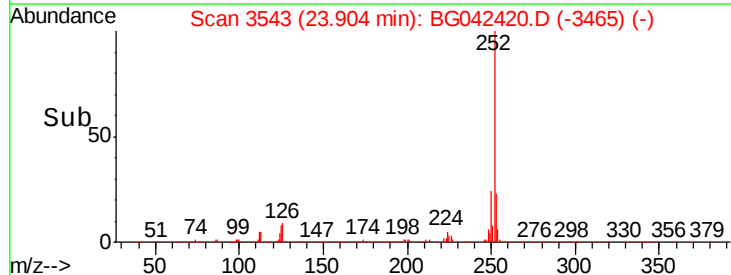
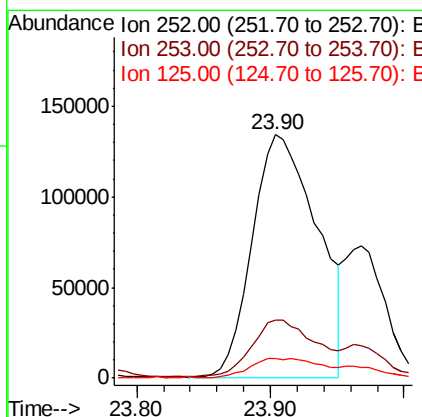
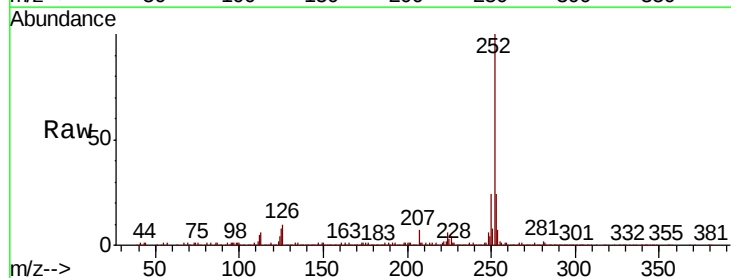
Instrument :
BNA_G
ClientSampleId :

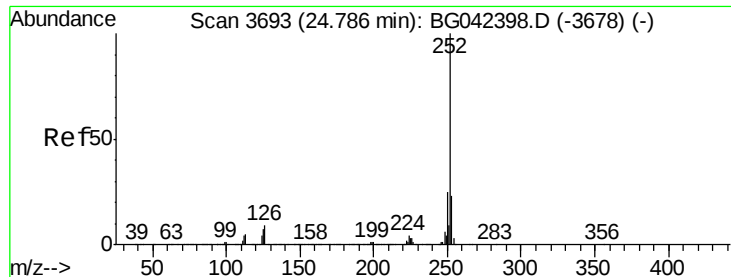
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	27.8
125	8.2	5.6	8.4



#89
Benzo(k)fluoranthene
Concen: 14.265 ng
RT: 23.90 min Scan# 3543
Delta R.T. -0.07 min
Lab File: BG042420.D
Acq: 23 Aug 2019 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	27.8
125	8.2	5.8	8.6





#90

Benzo(a)pyrene

Concen: 10.860 ng

RT: 24.78 min Scan# 3692

Delta R.T. -0.01 min

Lab File: BG042420.D

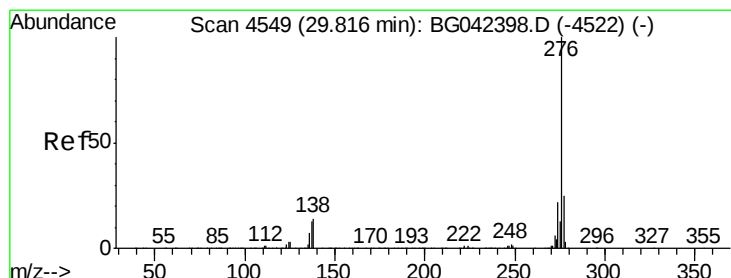
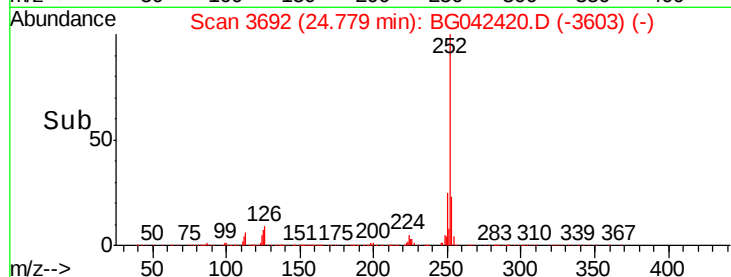
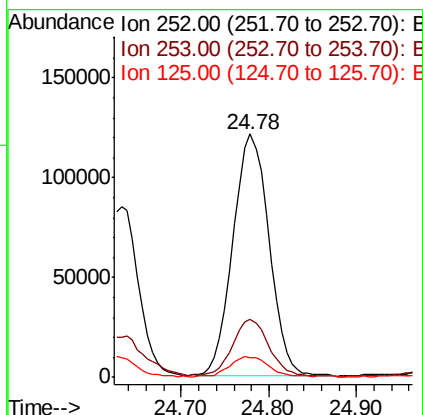
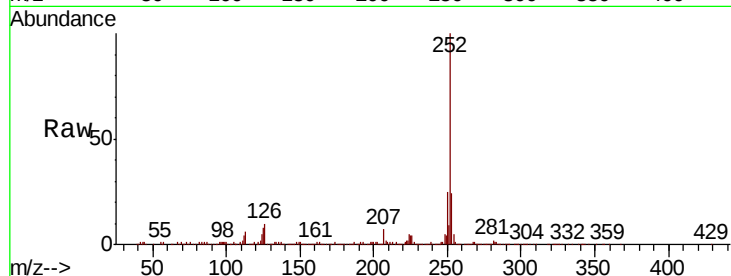
Acq: 23 Aug 2019 3:19

Instrument :

BNA_G

ClientSampleId :

Tot Ion:	252	Resp:	339357
Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	7.9	6.0	9.0



#92

Benzo(g,h,i)perylene

Concen: 7.503 ng

RT: 29.80 min Scan# 4546

Delta R.T. -0.02 min

Lab File: BG042420.D

Acq: 23 Aug 2019 3:19

Tgt Ion:	276	Resp:	237419
Ion	Ratio	Lower	Upper
276	100		
277	22.2	19.8	29.8
138	15.1	11.4	17.0

