

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060819\
 Data File : BG041145.D
 Acq On : 8 Jun 2019 22:29
 Operator : HP/JU
 Sample : K3189-02DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S-7BDL

Quant Time: Jun 10 04:45:36 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 18:39:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	49180	20.00	ng	-0.03
21) Naphthalene-d8	10.93	136	209947	20.00	ng	-0.03
39) Acenaphthene-d10	14.74	164	151084	20.00	ng	-0.02
64) Phenanthrene-d10	17.48	188	341528	20.00	ng	-0.02
76) Chrysene-d12	21.76	240	332583	20.00	ng	-0.03
87) Perylene-d12	25.09	264	353286	20.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	31040	11.38	ng	-0.02
7) Phenol-d6	7.25	99	47905	11.37	ng	-0.02
23) Nitrobenzene-d5	9.28	82	33926	7.17	ng	-0.03
42) 2,4,6-Tribromophenol	16.22	330	21465	9.57	ng	-0.03
45) 2-Fluorobiphenyl	13.36	172	77341	7.37	ng	-0.03
79) Terphenyl-d14	20.07	244	113396	7.24	ng	-0.03

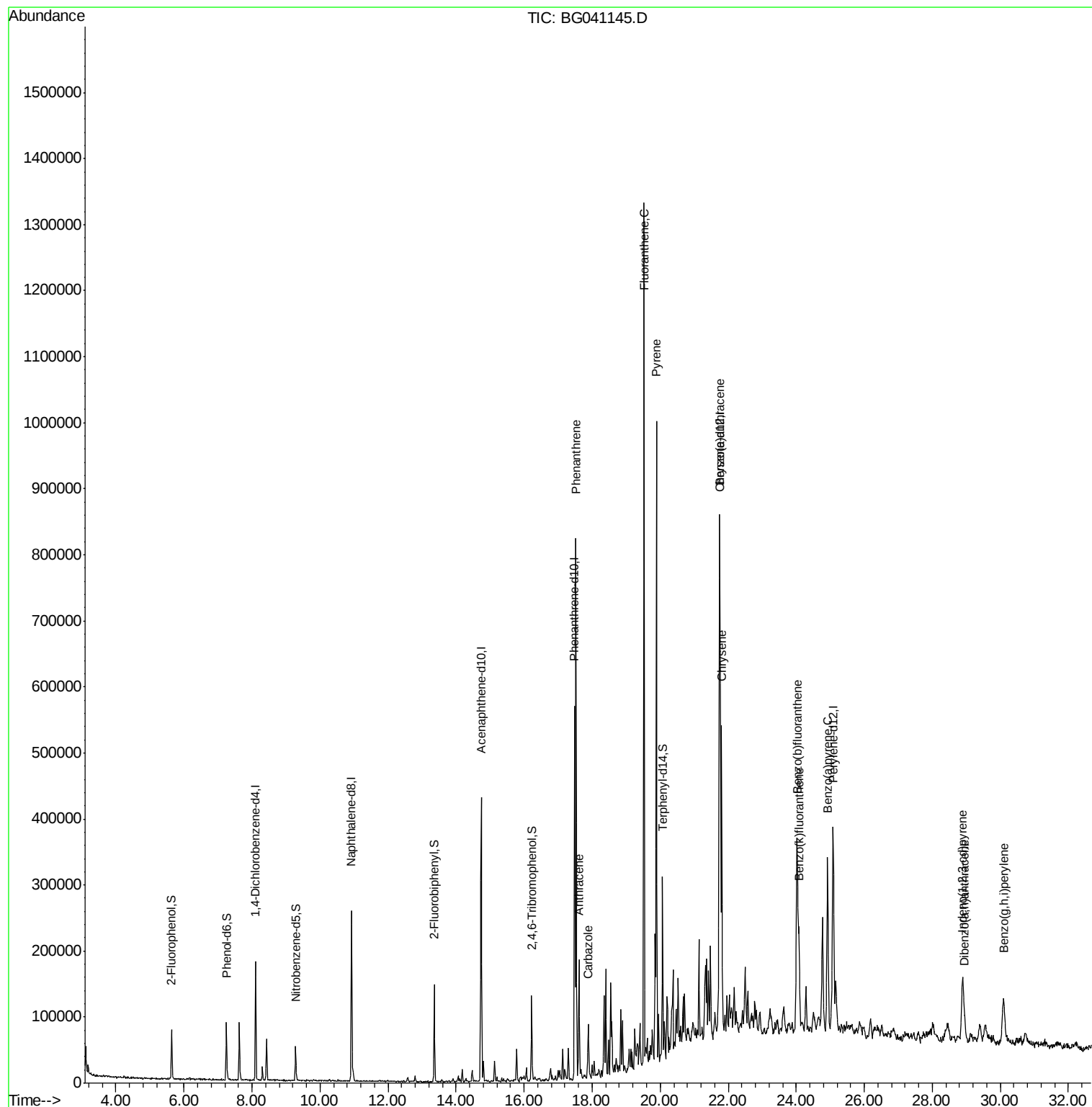
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
71) Phenanthrene	17.52	178	509323	28.630	ng	99
72) Anthracene	17.61	178	115971	6.610	ng	98
73) Carbazole	17.88	167	50746	3.371	ng	97
75) Fluoranthene	19.53	202	829797	37.764	ng	99
78) Pyrene	19.89	202	665812	30.796	ng	97
81) Benzo(a)anthracene	21.74	228	427826	19.325	ng	98
83) Chrysene	21.81	228	350017	16.521	ng	98
86) Indeno(1,2,3-cd)pyrene	28.89	276	190716m	7.349	ng	
88) Benzo(b)fluoranthene	24.02	252	409368	19.104	ng	98
89) Benzo(k)fluoranthene	24.08	252	149254m	7.039	ng	
90) Benzo(a)pyrene	24.92	252	289887	14.180	ng	97
91) Dibenzo(a,h)anthracene	28.95	278	52360m	2.563	ng	
92) Benzo(a,h,i)perylene	30.10	276	162119	8.169	ng	# 96

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.11 min Scan# 854

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

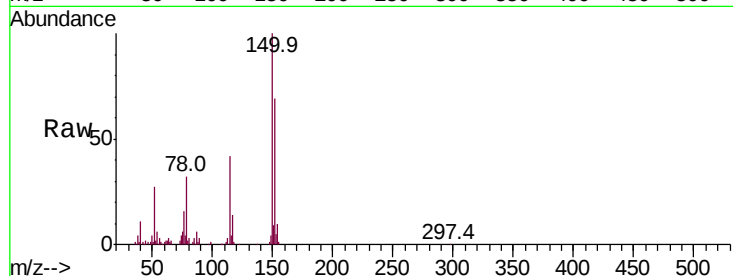
Tot Ion:152 Resp: 49180

Ion Ratio Lower Upper

152 100

150 145.2 120.6 180.8

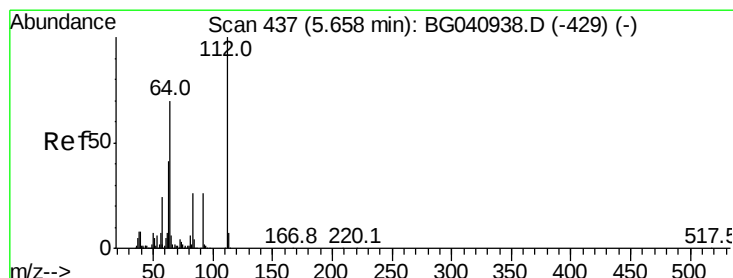
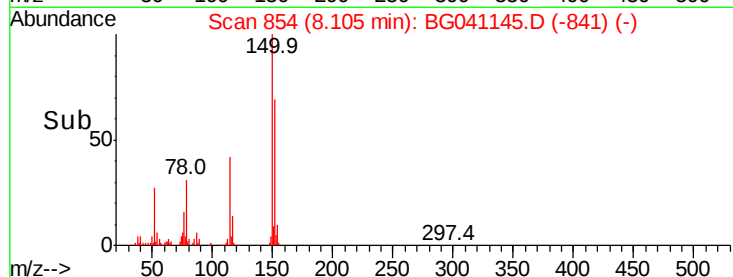
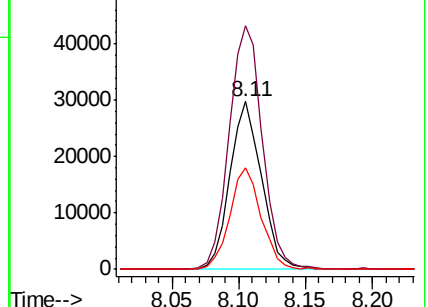
115 60.7 45.1 67.7



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: 11.381 ng

RT: 5.64 min Scan# 434

Delta R.T. -0.02 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

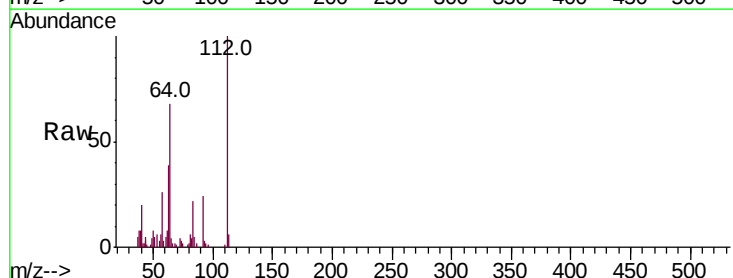
Tgt Ion:112 Resp: 31040

Ion Ratio Lower Upper

112 100

64 68.0 56.2 84.2

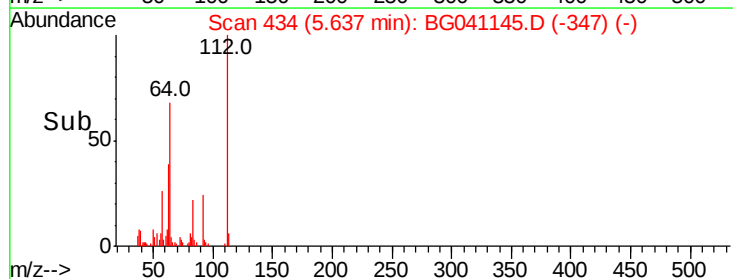
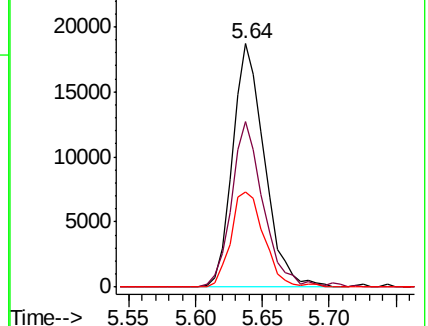
63 39.1 32.8 49.2

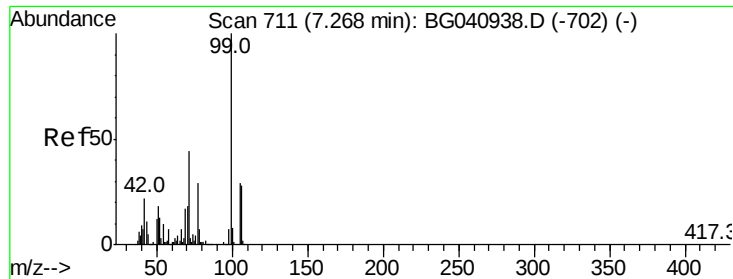


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 11.373 ng

RT: 7.25 min Scan# 708

Delta R.T. -0.02 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

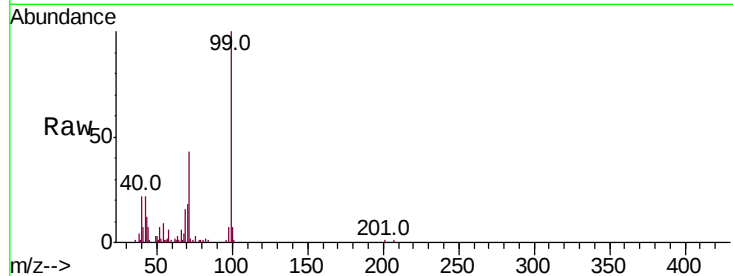
Tot Ion: 99 Resp: 47905

Ion Ratio Lower Upper

99 100

42 22.5 17.9 26.9

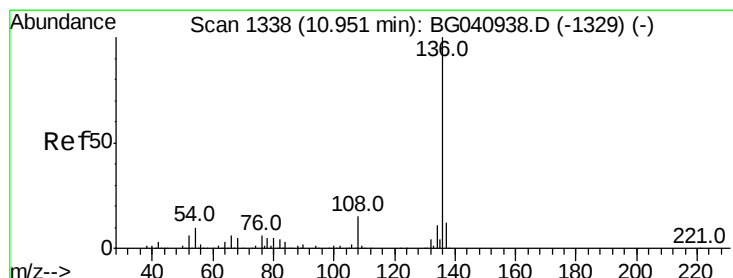
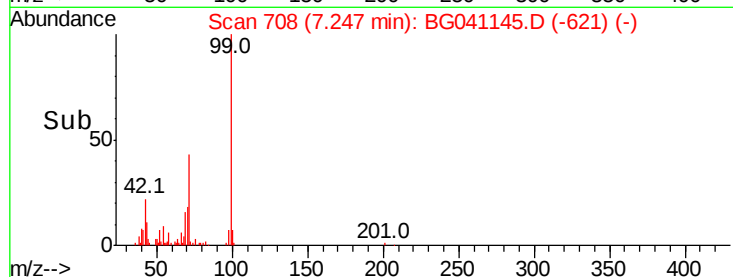
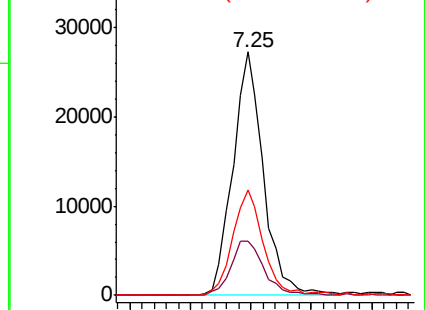
71 43.2 35.4 53.0



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: 10.93 min Scan# 1334

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Tgt Ion: 136 Resp: 209947

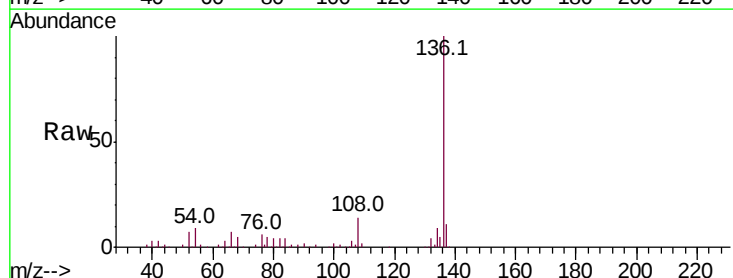
Ion Ratio Lower Upper

136 100

137 11.0 9.5 14.3

54 9.3 7.6 11.4

68 5.1 3.9 5.9

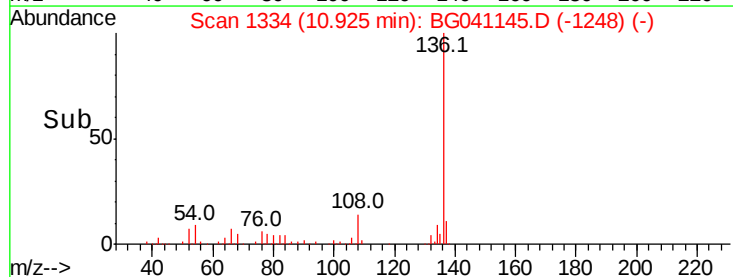
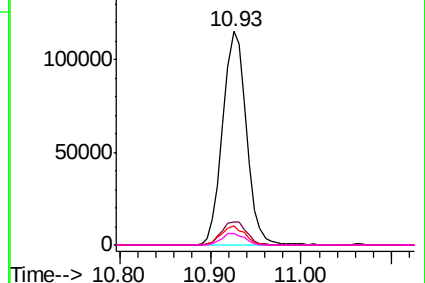


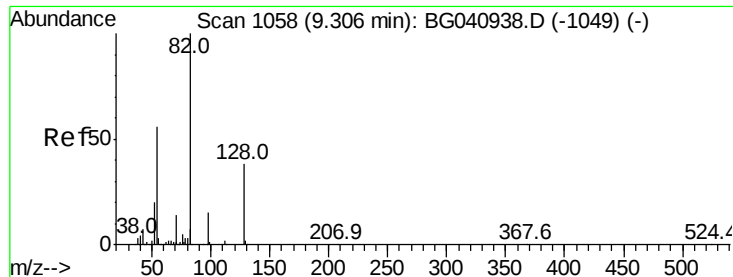
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

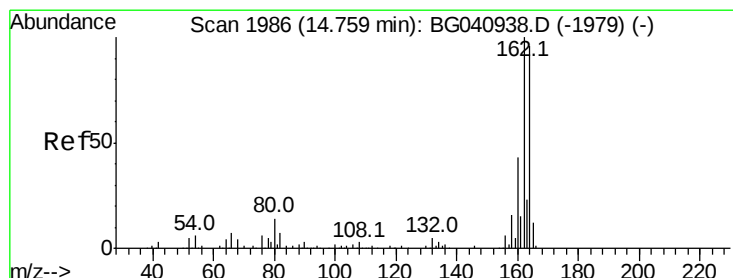
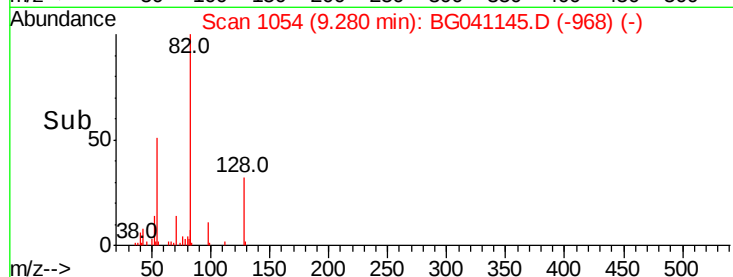
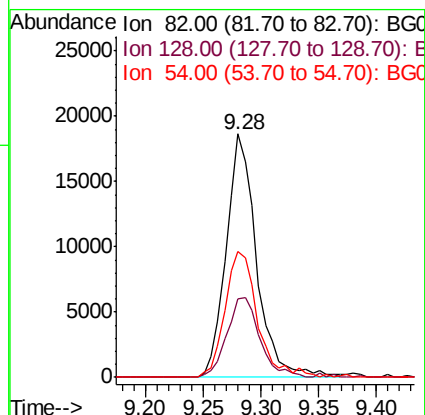
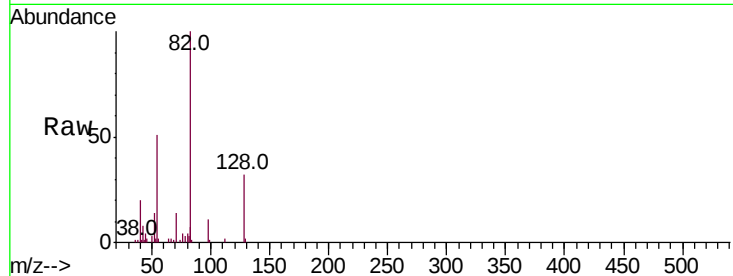




#23
Nitrobenzene-d5
Concen: 7.174 ng
RT: 9.28 min Scan# 1054
Delta R.T. -0.03 min
Lab File: BG041145.D
Acq: 8 Jun 2019 22:29

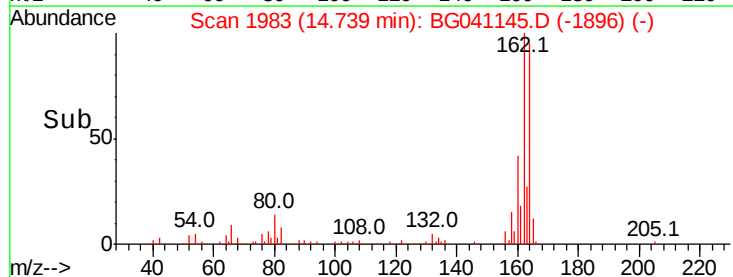
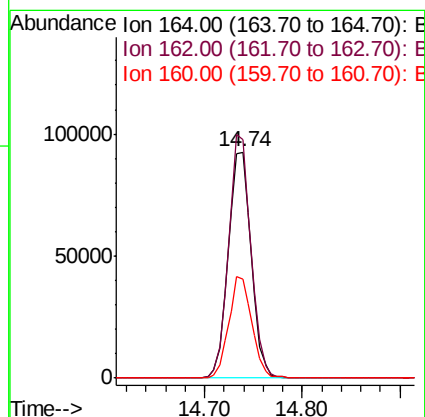
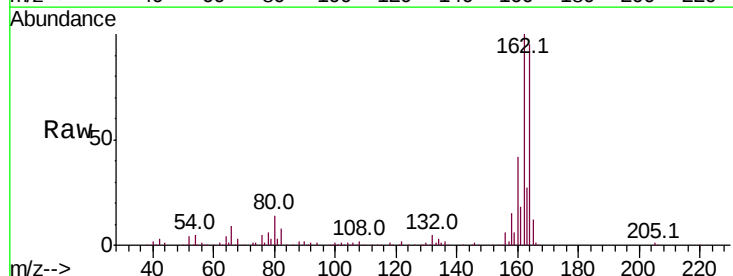
Instrument :
BNA_G
ClientSampleId :
S-7BDL

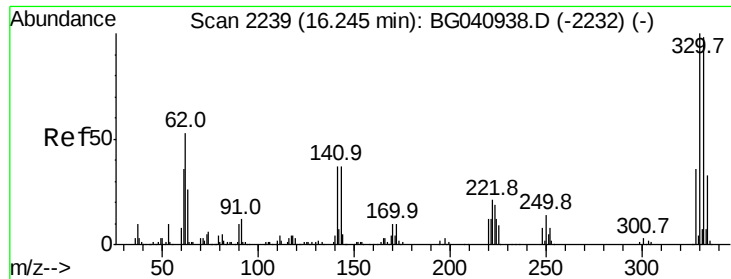
Tot Ion	82	Resp	33926
Ion Ratio	100	Lower	Upper
128	32.0	30.5	45.7
54	51.5	44.6	66.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.74 min Scan# 1983
Delta R.T. -0.02 min
Lab File: BG041145.D
Acq: 8 Jun 2019 22:29

Tgt Ion	164	Resp	151084
Ion Ratio	100	Lower	Upper
162	105.3	83.0	124.4
160	43.8	35.6	53.4





#42

2,4,6-Tribromophenol

Concen: 9.570 ng

RT: 16.22 min Scan# 2235

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

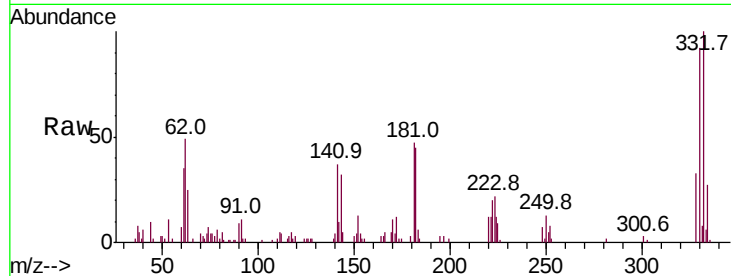
Tot Ion:330 Resp: 21465

Ion Ratio Lower Upper

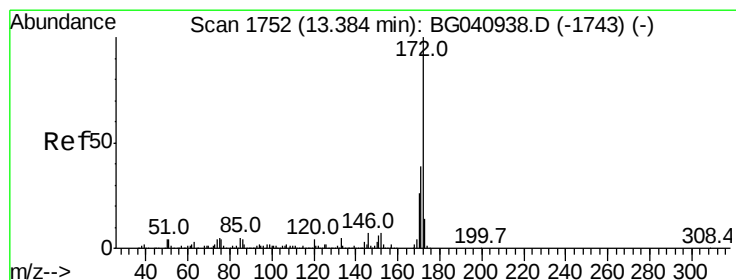
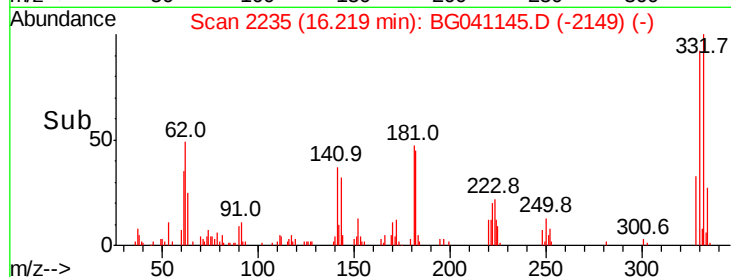
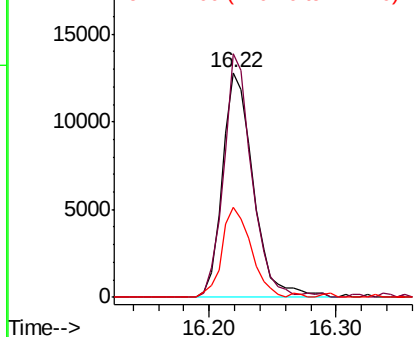
330 100

332 98.6 78.5 117.7

141 37.8 28.7 43.1



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: 7.372 ng

RT: 13.36 min Scan# 1748

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

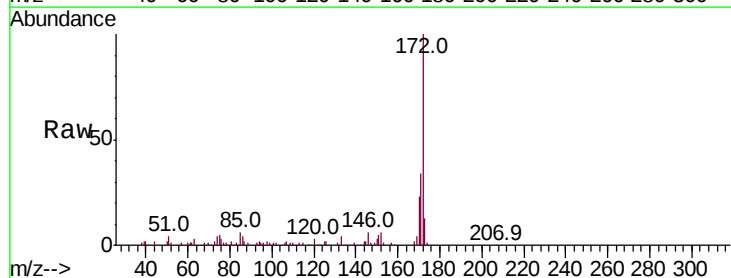
Tgt Ion:172 Resp: 77341

Ion Ratio Lower Upper

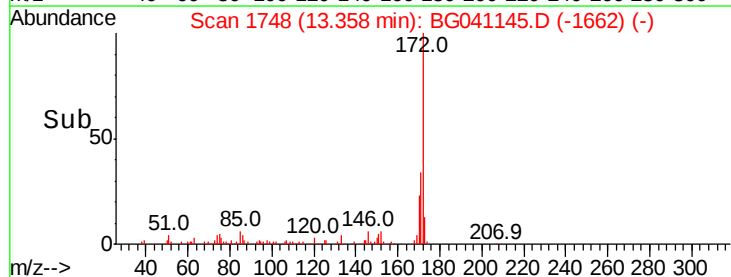
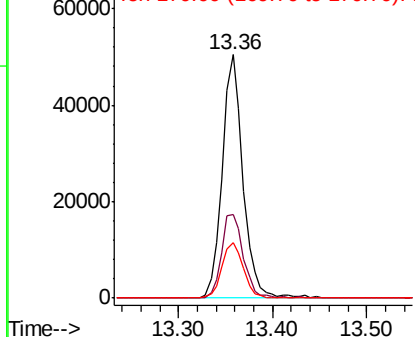
172 100

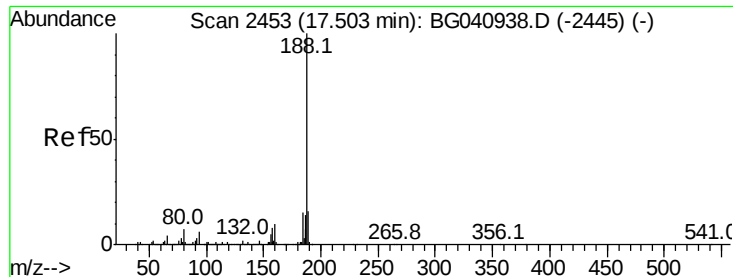
171 34.3 31.1 46.7

170 23.0 20.5 30.7



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.48 min Scan# 2450

Delta R.T. -0.02 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

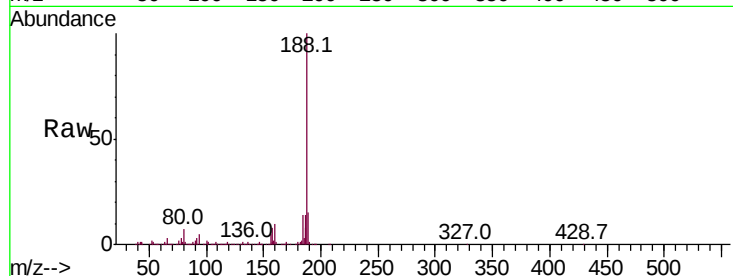
Tot Ion:188 Resp: 341528

Ion Ratio Lower Upper

188 100

94 5.2 4.7 7.1

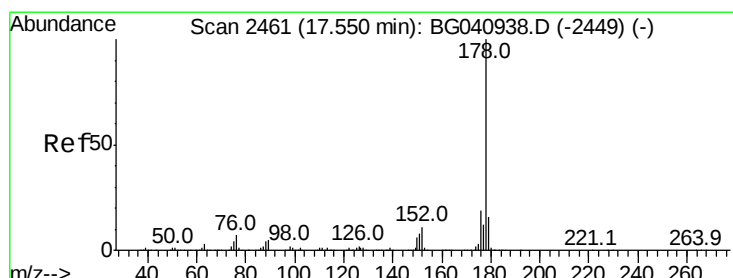
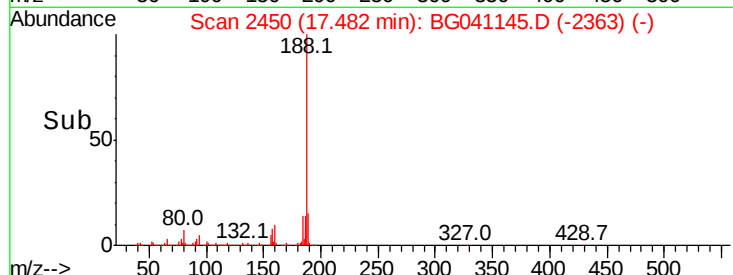
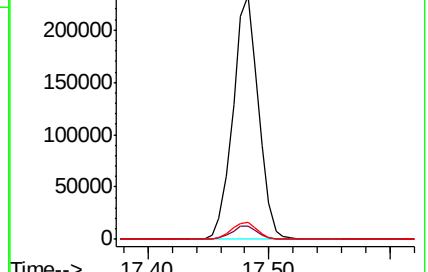
80 6.8 5.8 8.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#71

Phenanthrene

Concen: 28.630 ng

RT: 17.52 min Scan# 2457

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

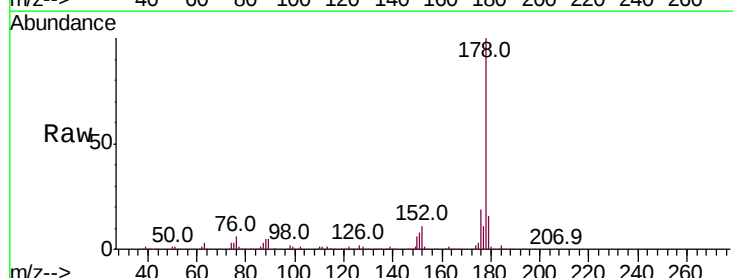
Tgt Ion:178 Resp: 509323

Ion Ratio Lower Upper

178 100

176 18.6 15.5 23.3

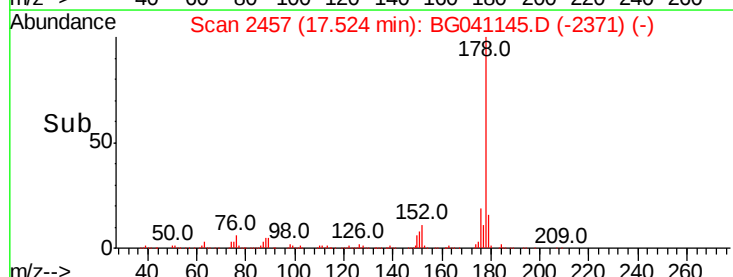
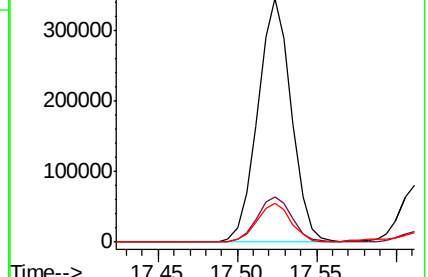
179 15.9 12.7 19.1

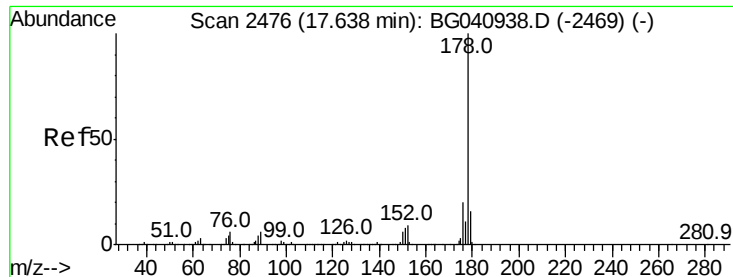


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

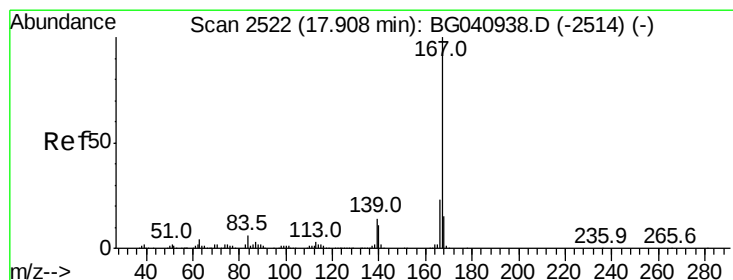
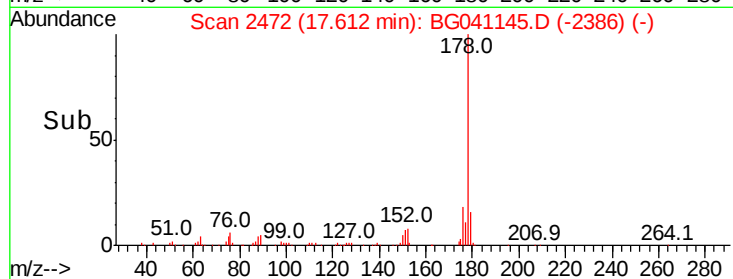
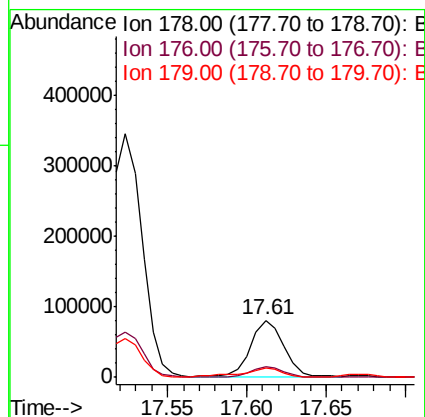
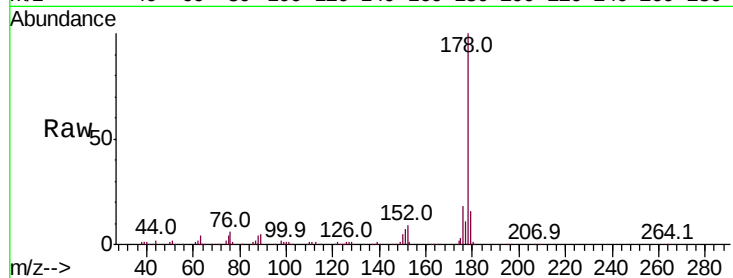




#72
 Anthracene
 Concen: 6.610 ng
 RT: 17.61 min Scan# 2472
 Delta R.T. -0.03 min
 Lab File: BG041145.D
 Acq: 8 Jun 2019 22:29

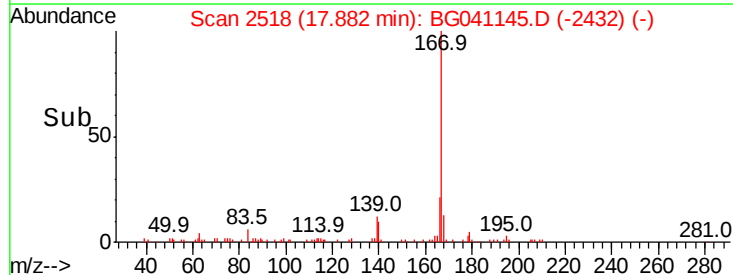
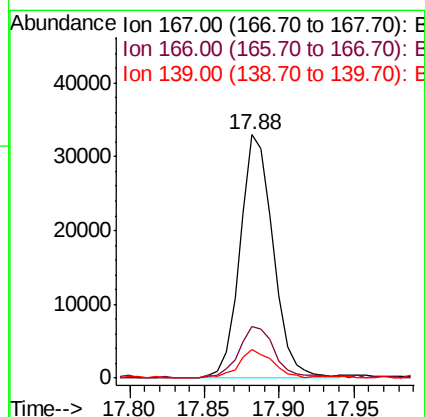
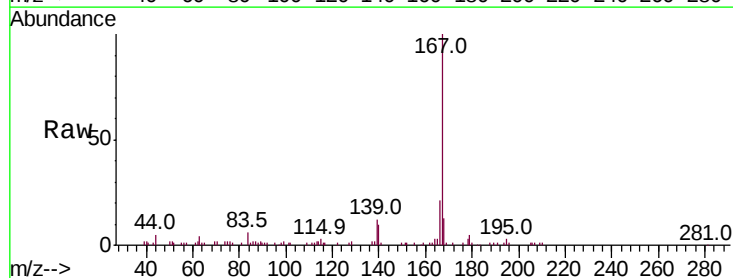
Instrument :
 BNA_G
 ClientSampleId :
 S-7BDL

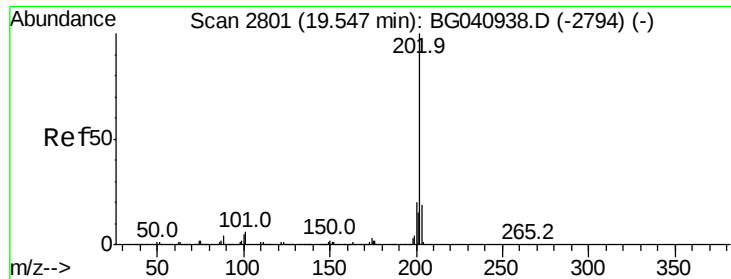
Tot Ion:178 Resp: 115971
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.6 23.4
 179 15.9 13.0 19.4



#73
 Carbazole
 Concen: 3.371 ng
 RT: 17.88 min Scan# 2518
 Delta R.T. -0.03 min
 Lab File: BG041145.D
 Acq: 8 Jun 2019 22:29

Tgt Ion:167 Resp: 50746
 Ion Ratio Lower Upper
 167 100
 166 21.3 18.2 27.4
 139 11.8 10.8 16.2





#75

Fluoranthene

Concen: 37.764 ng

RT: 19.53 min Scan# 2798

Delta R.T. -0.02 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

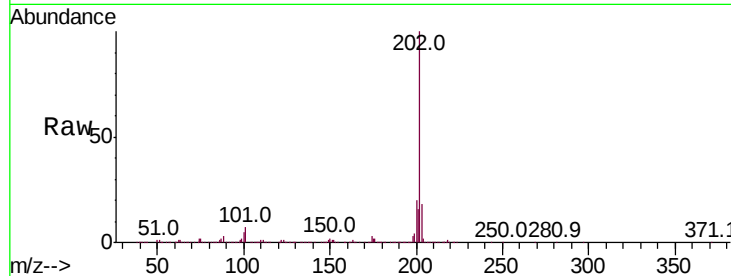
Tot Ion:202 Resp: 829797

Ion Ratio Lower Upper

202 100

101 6.5 0.0 26.2

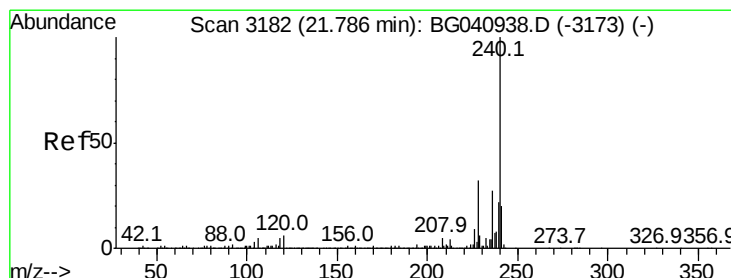
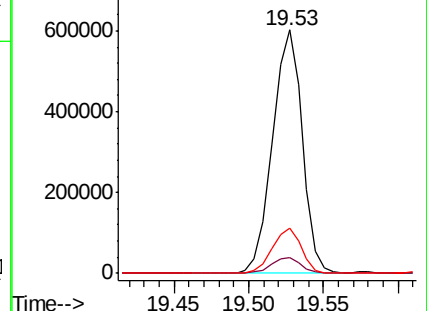
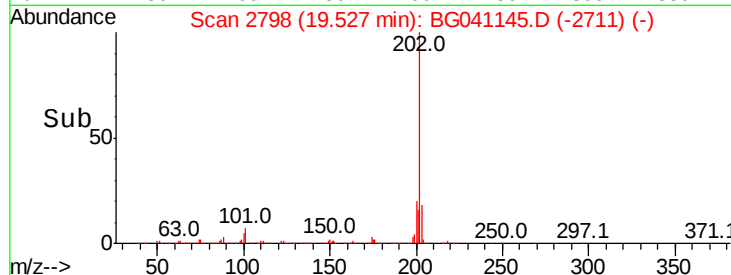
203 18.3 0.0 38.7



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: 21.76 min Scan# 3178

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

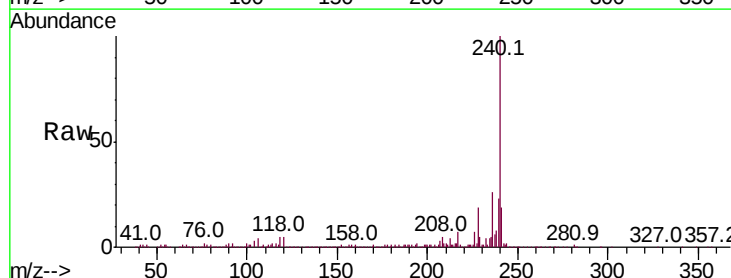
Tgt Ion:240 Resp: 332583

Ion Ratio Lower Upper

240 100

120 4.8 4.5 6.7

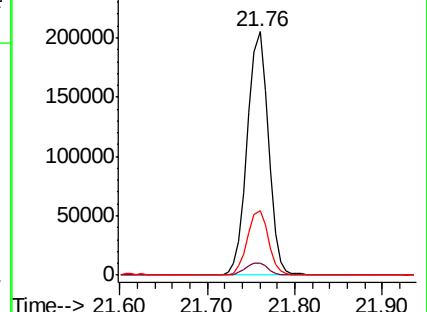
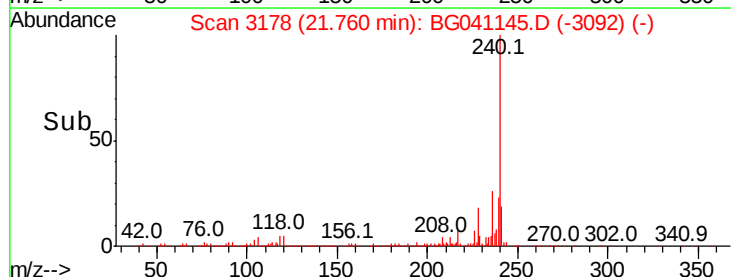
236 26.4 21.3 31.9

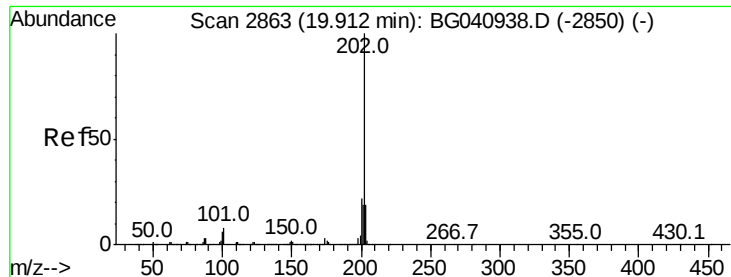


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 30.796 ng

RT: 19.89 min Scan# 2859

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

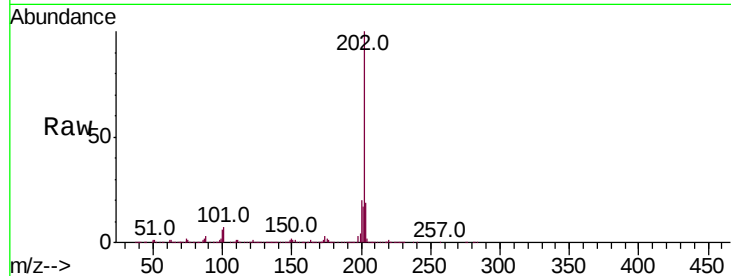
Tot Ion:202 Resp: 665812

Ion Ratio Lower Upper

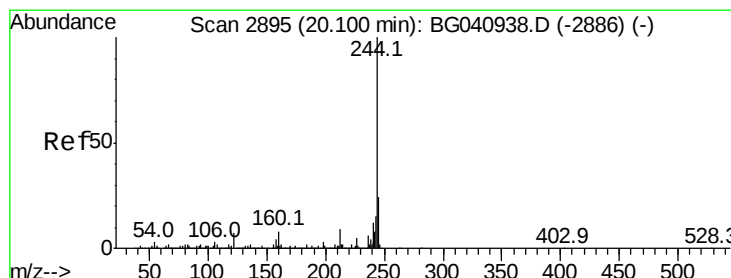
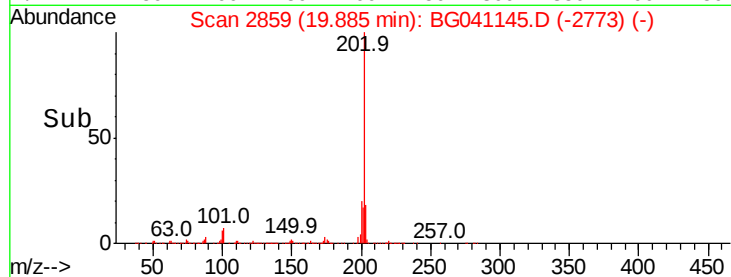
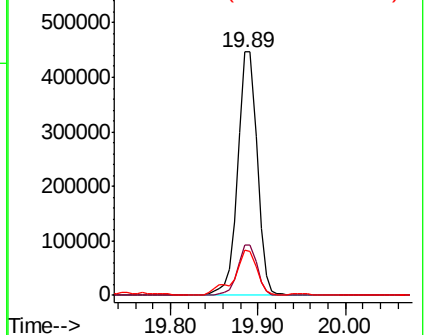
202 100

200 20.4 17.5 26.3

203 18.5 15.6 23.4



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: 7.236 ng

RT: 20.07 min Scan# 2891

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

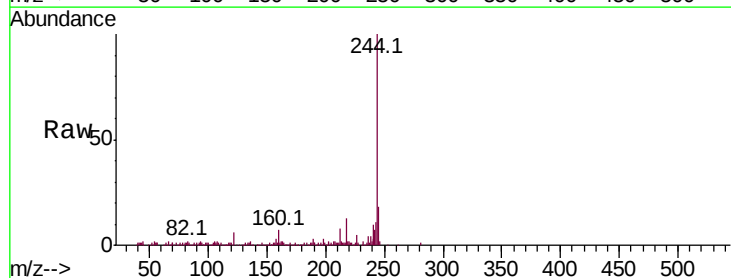
Tgt Ion:244 Resp: 113396

Ion Ratio Lower Upper

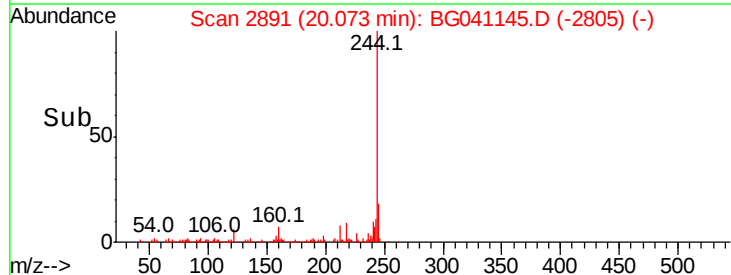
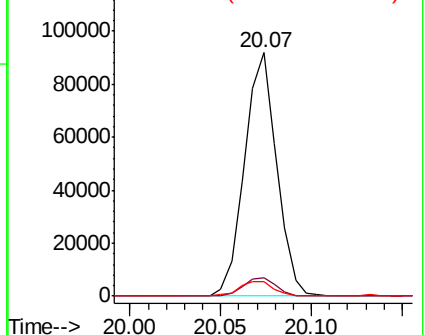
244 100

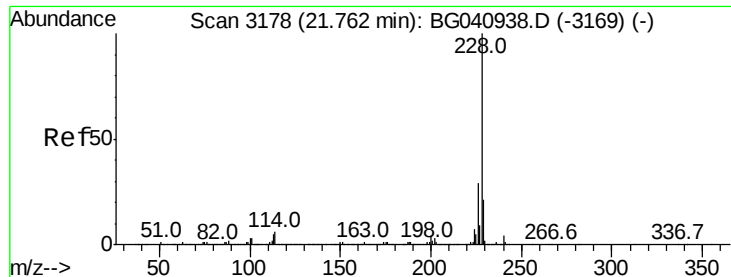
212 7.5 7.0 10.4

122 5.9 5.4 8.0



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

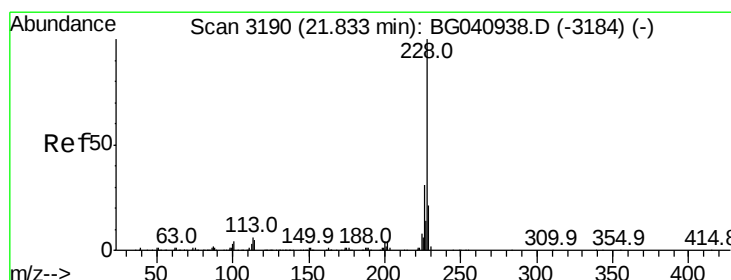
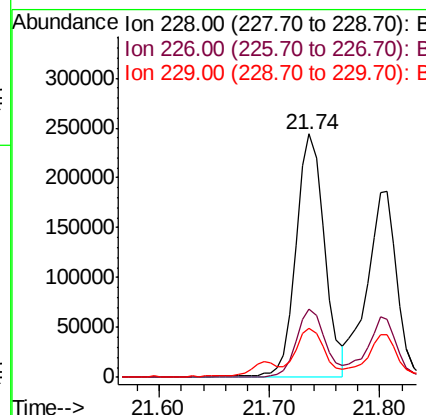
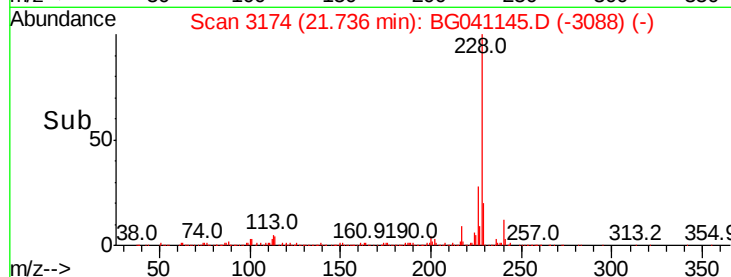
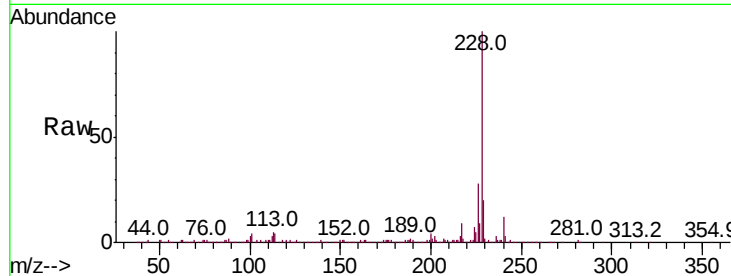




#81
Benzo(a)anthracene
Concen: 19.325 ng
RT: 21.74 min Scan# 3174
Delta R.T. -0.03 min
Lab File: BG041145.D
Acq: 8 Jun 2019 22:29

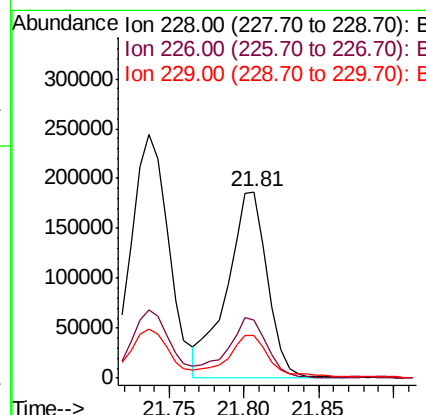
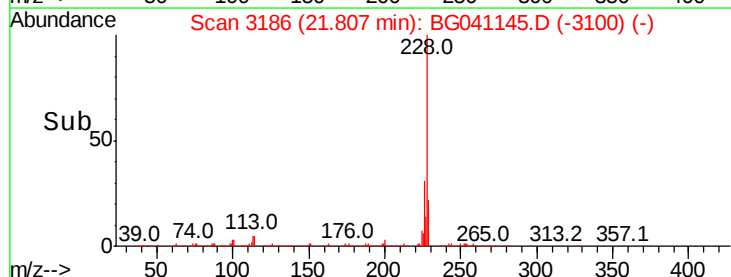
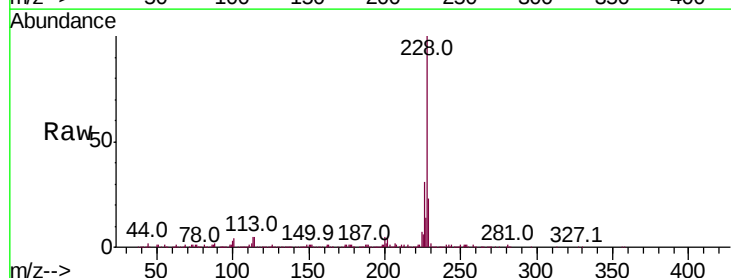
Instrument :
BNA_G
ClientSampleId :
S-7BDL

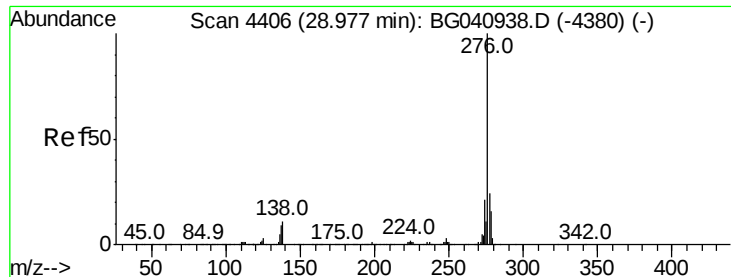
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.5	35.3
229	20.3	16.7	25.1



#83
Chrysene
Concen: 16.521 ng
RT: 21.81 min Scan# 3186
Delta R.T. -0.03 min
Lab File: BG041145.D
Acq: 8 Jun 2019 22:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	22.6	16.6	24.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 7.349 ng/mL

RT: 28.89 min Scan# 4392

Delta R.T. -0.08 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

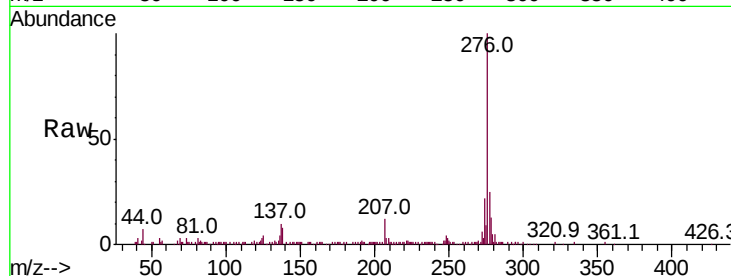
Tot Ion:276 Resp: 190716

Ion Ratio Lower Upper

276 100

138 0.3 5.7 8.5#

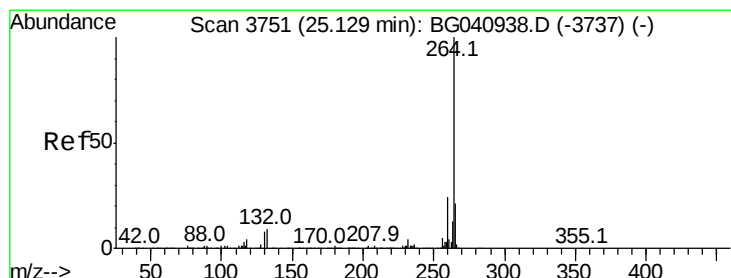
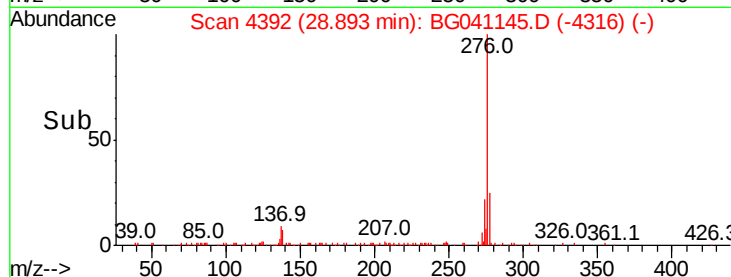
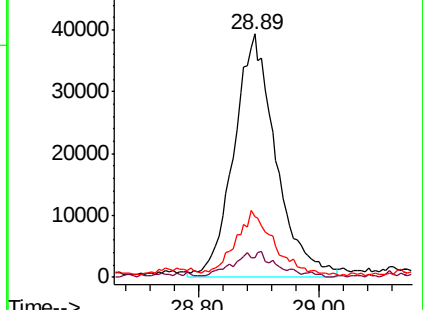
277 0.9 20.8 31.2#



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/mL

RT: 25.09 min Scan# 3744

Delta R.T. -0.04 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

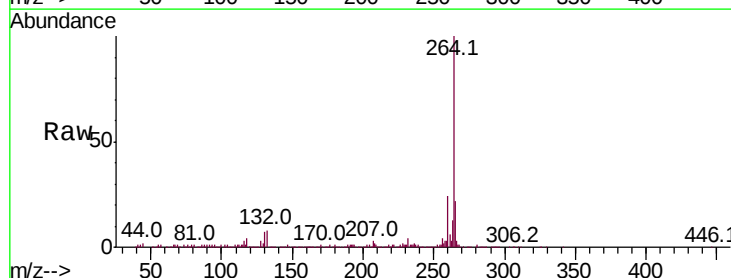
Tgt Ion:264 Resp: 353286

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

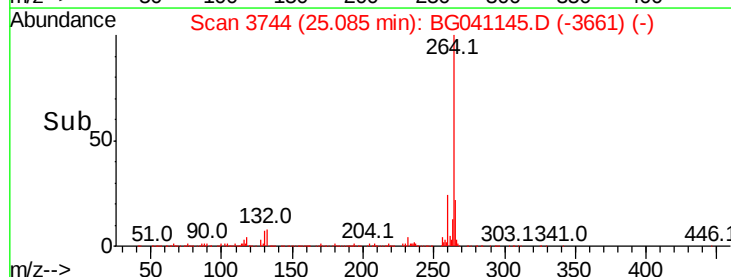
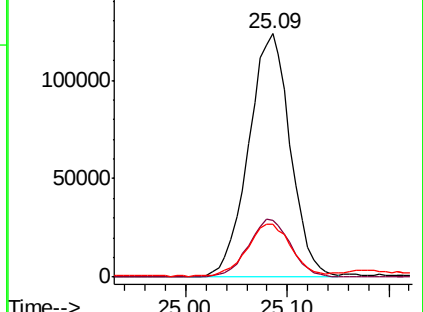
265 21.9 17.0 25.4

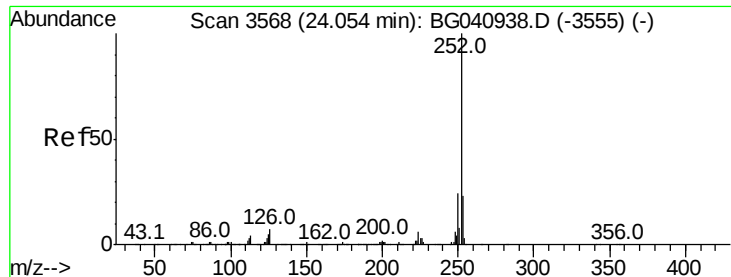


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 19.104 ng

RT: 24.02 min Scan# 3563

Delta R.T. -0.03 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

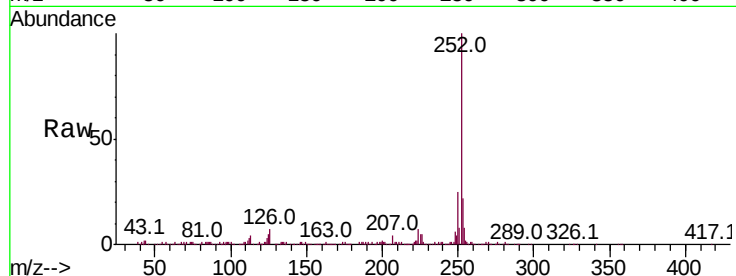
Tot Ion:252 Resp: 409368

Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

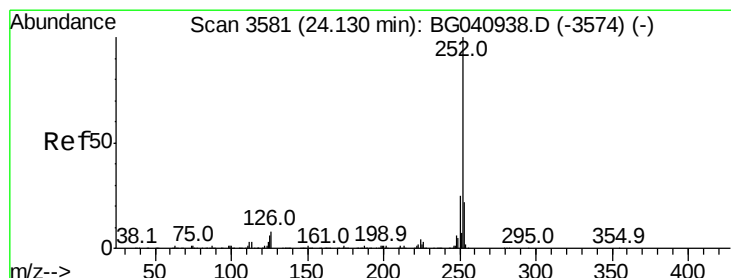
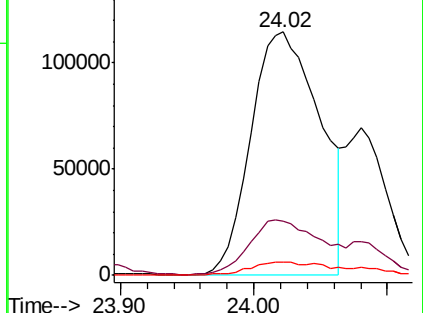
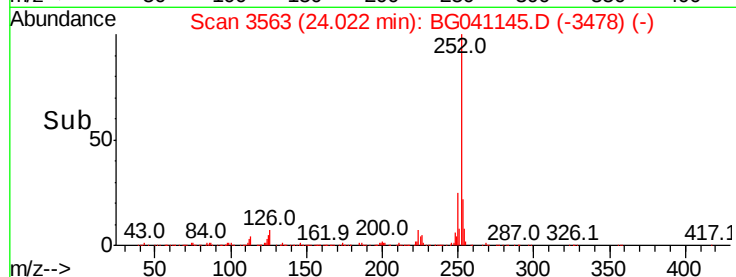
125 5.3 4.3 6.5



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: 7.039 ng m

RT: 24.08 min Scan# 3573

Delta R.T. -0.05 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

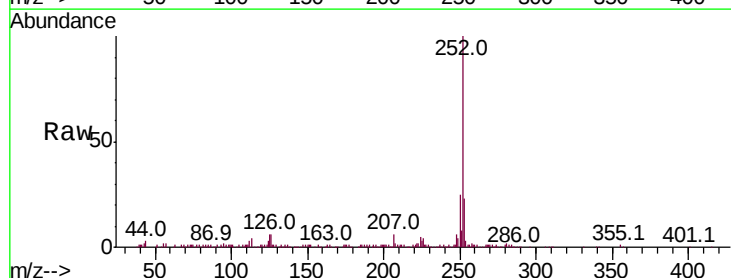
Tgt Ion:252 Resp: 149254

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.6

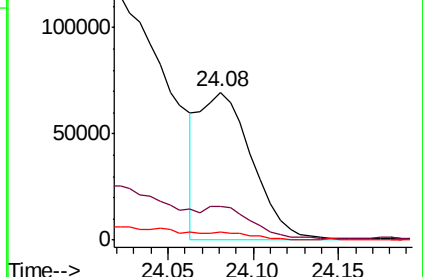
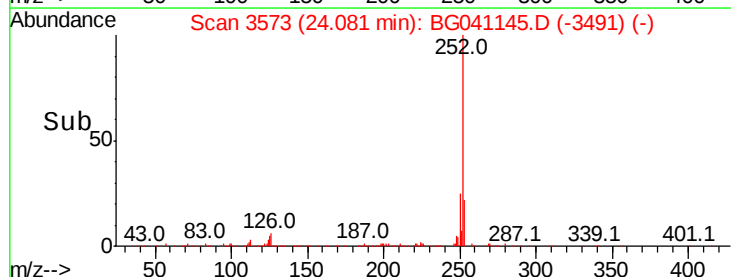
125 5.7 4.7 7.1

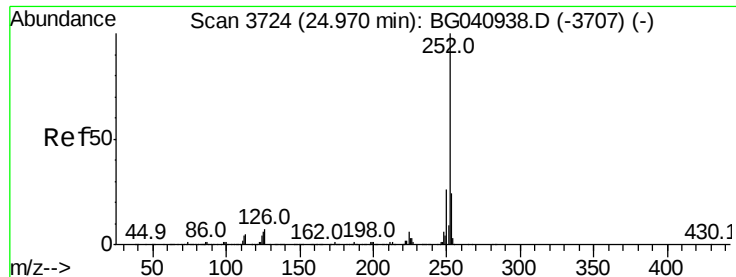


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 14.180 ng

RT: 24.92 min Scan# 3716

Delta R.T. -0.05 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

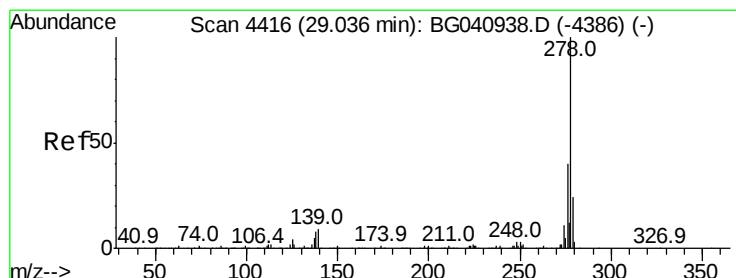
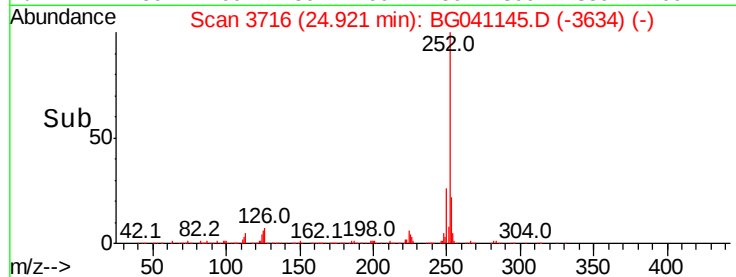
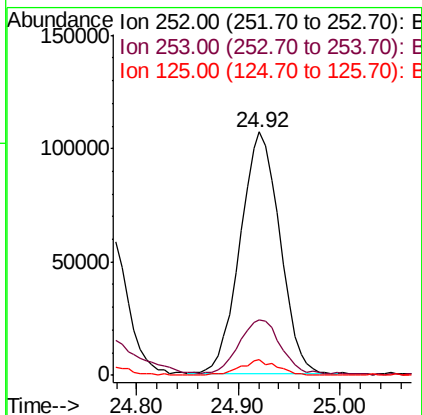
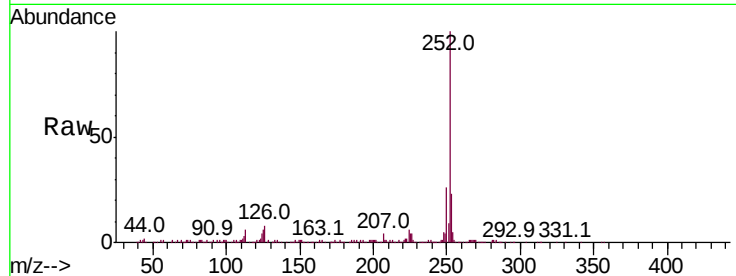
Instrument :

BNA_G

ClientSampleId :

S-7BDL

Tot Ion:252	Resp:	289887
Ion Ratio	Lower	Upper
252	100	
253	22.7	19.5 29.3
125	6.3	5.1 7.7



#91

Dibenzo(a,h)anthracene

Concen: 2.563 ng m

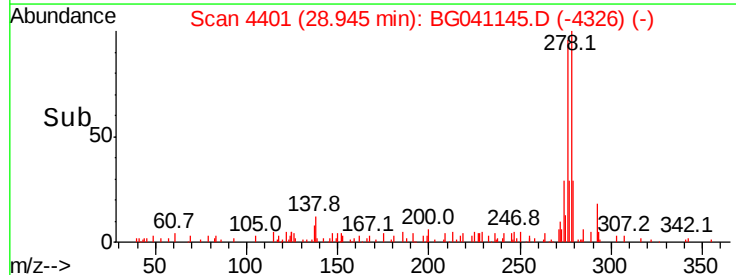
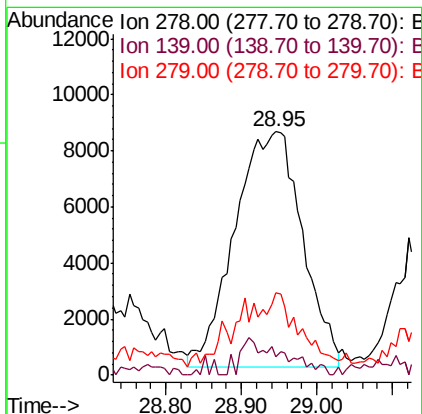
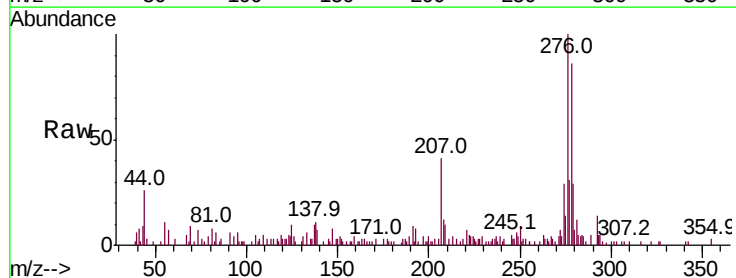
RT: 28.95 min Scan# 4401

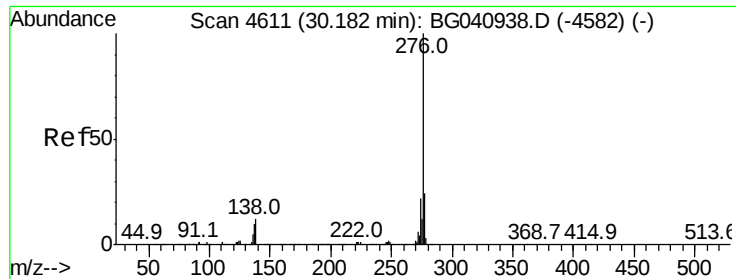
Delta R.T. -0.09 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Tgt Ion:278	Resp:	52360
Ion Ratio	Lower	Upper
278	100	
139	7.6	7.1 10.7
279	34.1	19.4 29.2#





#92

Benzo(a,h,i)perylene

Concen: 8.169 ng

RT: 30.10 min Scan# 4597

Delta R.T. -0.08 min

Lab File: BG041145.D

Acq: 8 Jun 2019 22:29

Instrument :

BNA_G

ClientSampleId :

S-7BDL

Tot Ion:276 Resp: 162119

Ion Ratio Lower Upper

276 100

277 24.9 19.4 29.0

138 8.6 9.7 14.5#

