

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG050919\
 Data File : BG040835.D
 Acq On : 10 May 2019 3:21
 Operator : HP/JU
 Sample : K2764-14
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P026-SS001-1218-01

Quant Time: May 10 06:25:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG042319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 24 05:35:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	53186	20.00	ng	-0.02
21) Naphthalene-d8	10.96	136	229213	20.00	ng	-0.02
39) Acenaphthene-d10	14.77	164	177064	20.00	ng	-0.02
64) Phenanthrene-d10	17.51	188	461293	20.00	ng	-0.02
76) Chrysene-d12	21.80	240	441607	20.00	ng	-0.03
87) Perylene-d12	25.15	264	471270	20.00	ng	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.67	112	435334	144.28	ng	-0.01
7) Phenol-d6	7.28	99	661013	142.29	ng	-0.02
23) Nitrobenzene-d5	9.32	82	460925	92.92	ng	-0.02
42) 2,4,6-Tribromophenol	16.26	330	346304	142.29	ng	-0.02
45) 2-Fluorobiphenyl	13.39	172	953240	77.75	ng	-0.02
79) Terphenyl-d14	20.11	244	1653633	82.96	ng	-0.02

Target Compounds

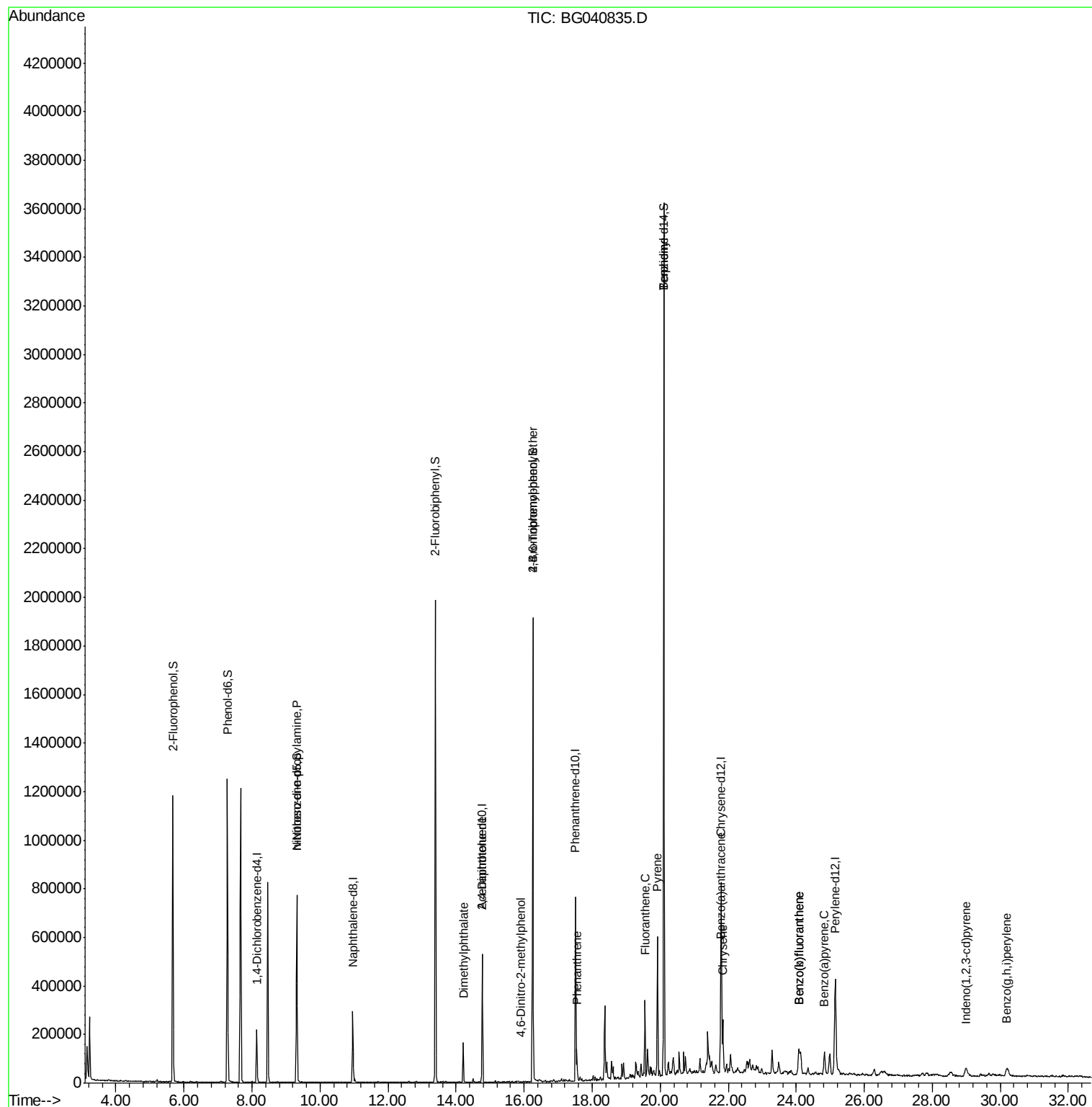
	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.28	77	1680	Below Cal		# 6
19) n-Nitroso-di-n-propylamine	9.32	70	65374	15.633	ng	# 75
50) Dimethylphthalate	14.21	163	93586	6.317	ng	# 98
57) 2,4-Dinitrotoluene	14.77	165	22259	5.665	ng	# 16
65) 4,6-Dinitro-2-methylphenol	15.90	198	83	7.132	ng	# 28
67) 4-Bromophenyl-phenylether	16.26	248	26035	4.530	ng	# 1
71) Phenanthrene	17.55	178	80941	3.258	ng	# 95
75) Fluoranthene	19.56	202	197724	6.386	ng	# 96
77) Benzidine	20.10	184	30718	2.540	ng	# 92
78) Pyrene	19.92	202	376964	13.620	ng	# 98
81) Benzo(a)anthracene	21.77	228	123947	4.441	ng	# 99
83) Chrysene	21.84	228	160239	6.037	ng	# 96
86) Indeno(1,2,3-cd)pyrene	28.98	276	67786	2.112	ng	# 80
88) Benzo(b)fluoranthene	24.08	252	148535	5.158	ng	# 97
89) Benzo(k)fluoranthene	24.08	252	148535	5.523	ng	# 97
90) Benzo(a)pyrene	24.83	252	112377	4.122	ng	# 97
92) Benzo(g,h,i)perylene	30.20	276	79266	2.887	ng	# 97

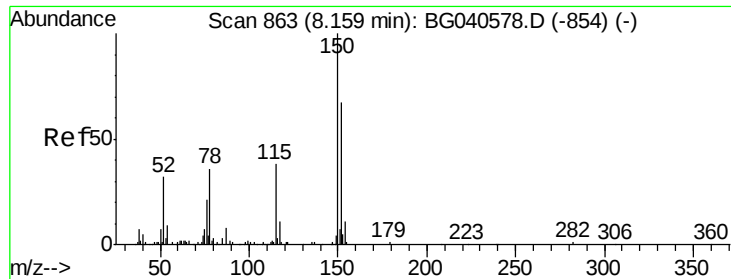
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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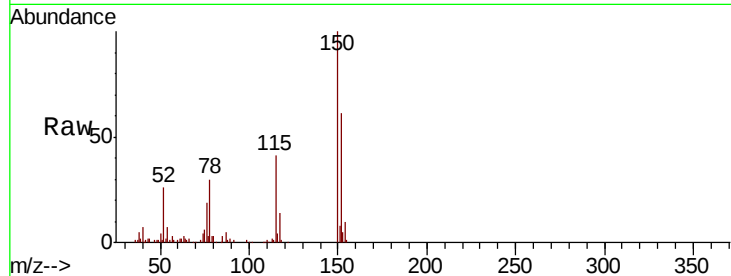


#1

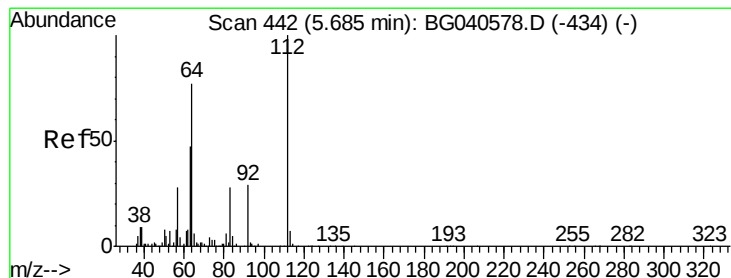
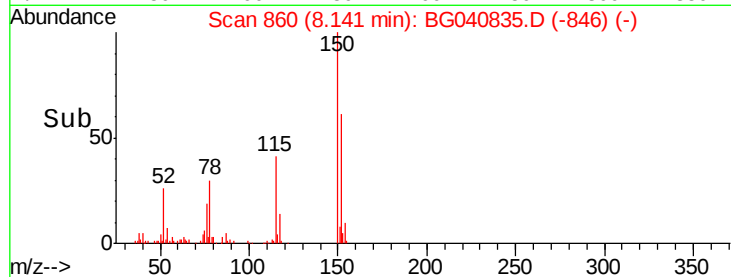
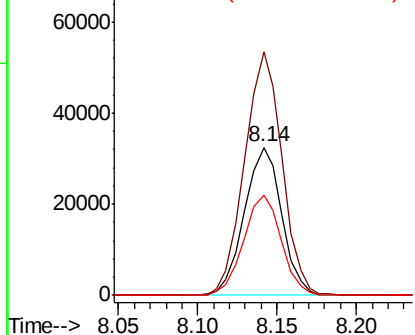
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.14 min Scan# 860
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Instrument :
BNA_G
ClientSampleId :
P026-SS001-1218-01

Tgt Ion	Ratio	Lower	Upper
152	100		
150	164.4	120.2	180.2
115	67.7	46.2	69.2



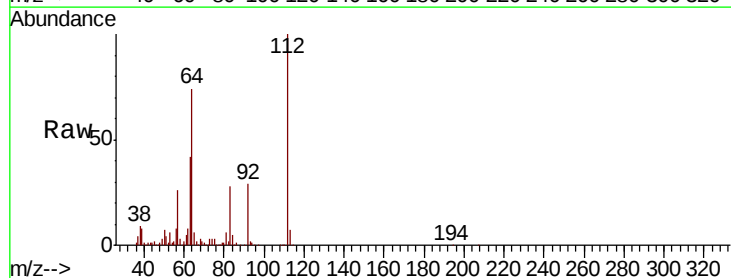
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



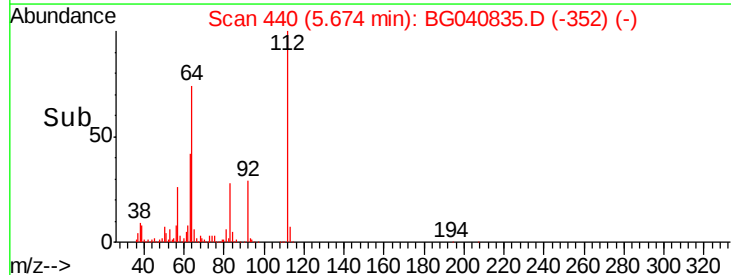
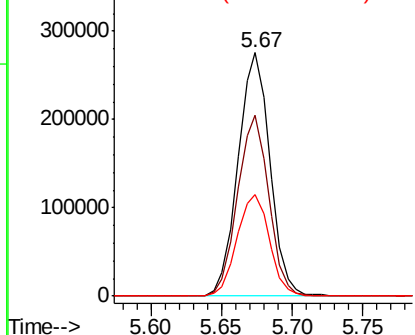
#5

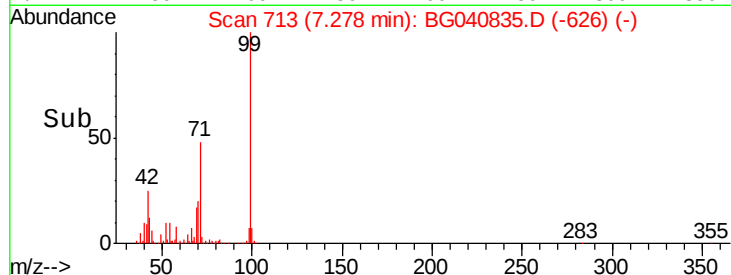
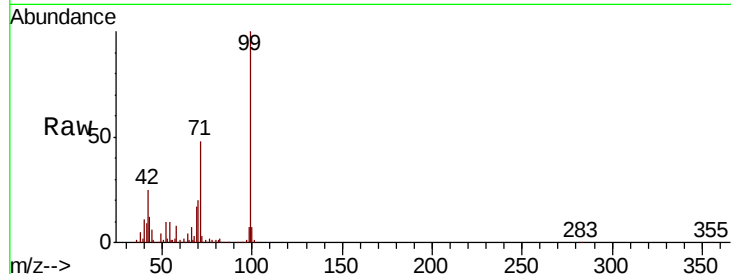
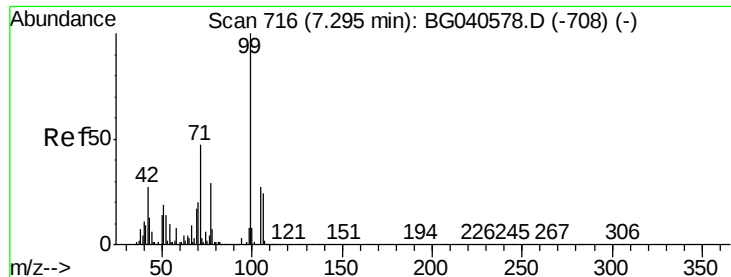
2-Fluorophenol
Concen: 144.284 ng
RT: 5.67 min Scan# 440
Delta R.T. -0.01 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.1	61.4	92.0
63	41.9	37.8	56.6



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: 142.287 ng

RT: 7.28 min Scan# 713

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

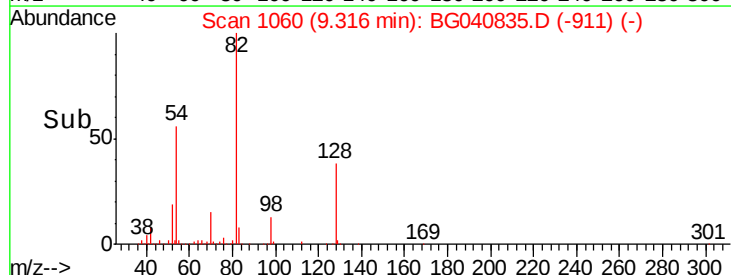
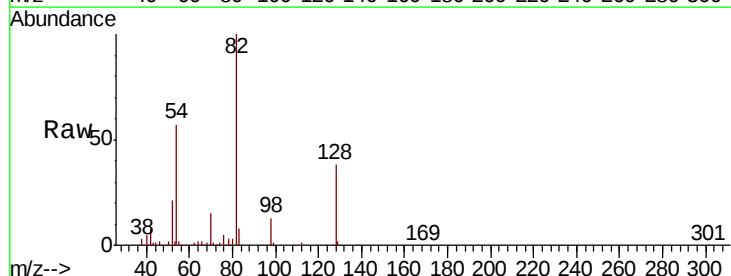
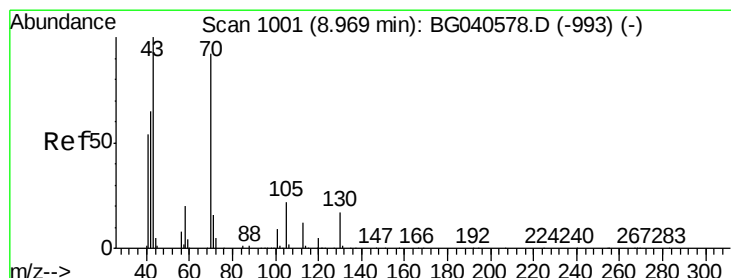
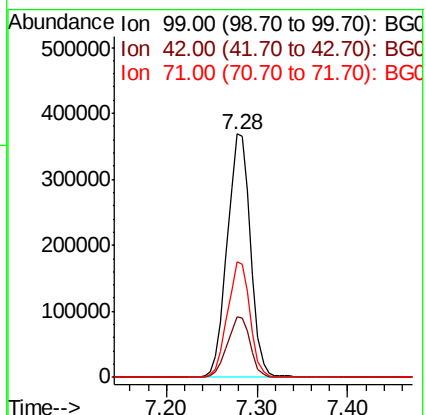
Tgt Ion: 99 Resp: 661013

Ion Ratio Lower Upper

99 100

42 24.7 21.8 32.8

71 47.7 38.6 57.8



#19

n-Nitroso-di-n-propylamine

Concen: 15.633 ng

RT: 9.32 min Scan# 1060

Delta R.T. 0.35 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Tgt Ion: 70 Resp: 65374

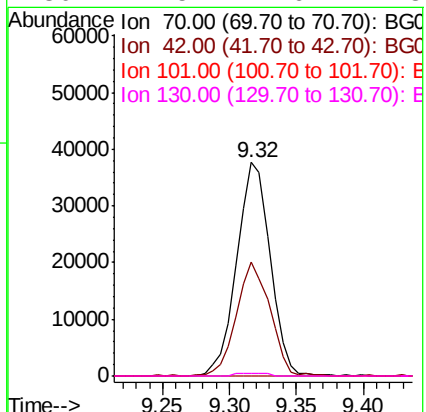
Ion Ratio Lower Upper

70 100

42 53.3 57.1 85.7#

101 0.0 7.8 11.8#

130 1.5 14.6 21.8#

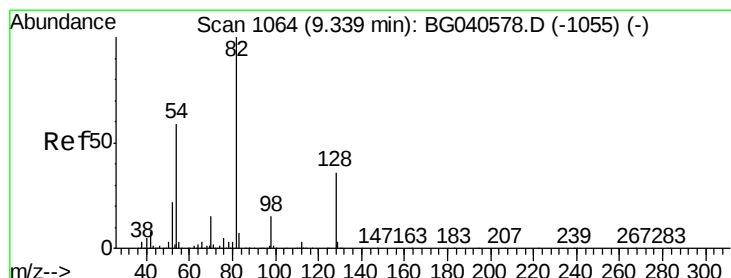
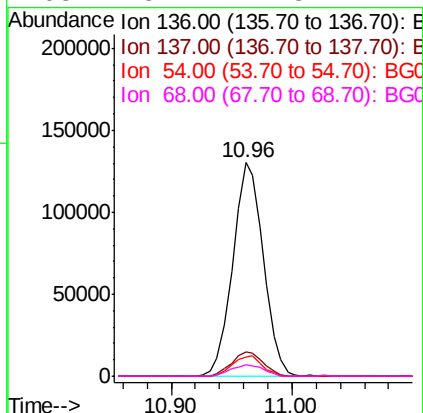
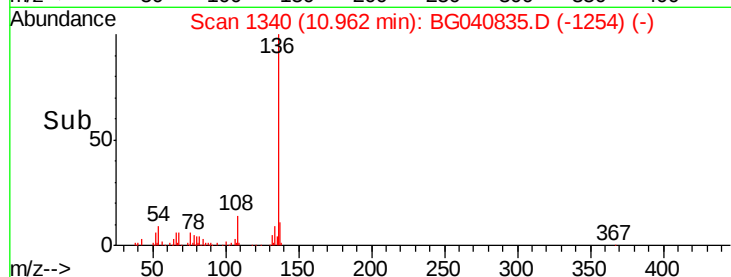
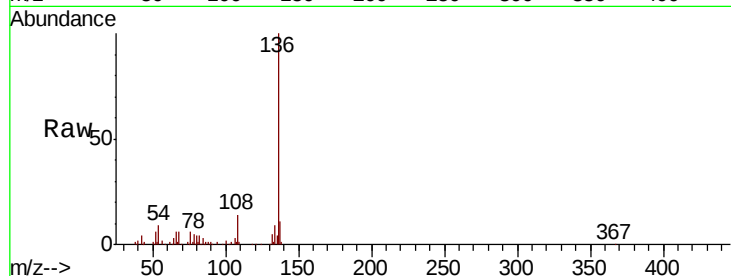




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.96 min Scan# 1340
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

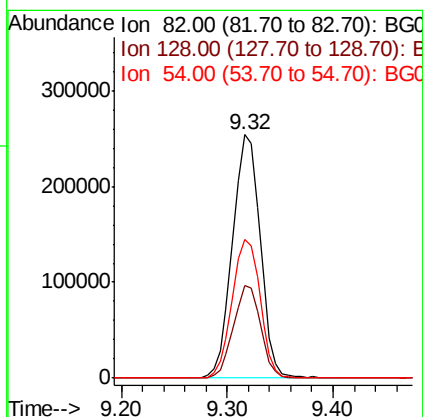
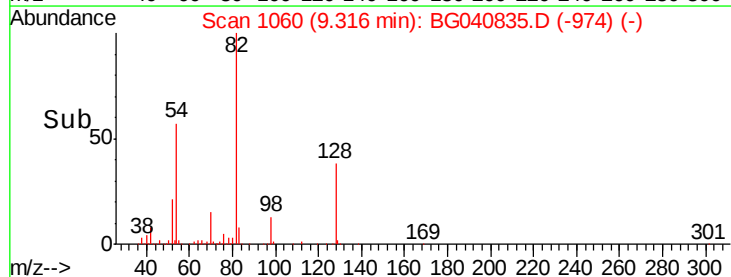
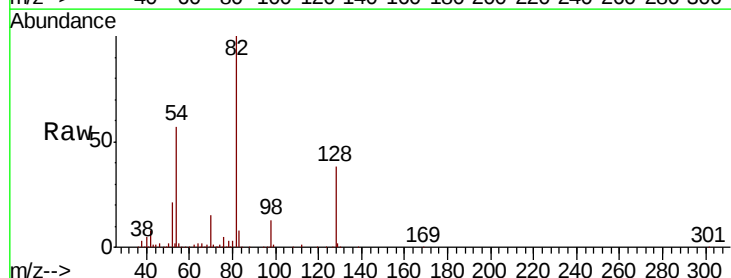
Instrument :
BNA_G
ClientSampleId :
P026-SS001-1218-01

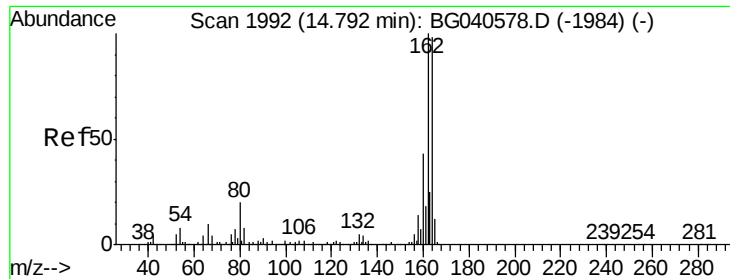
Tgt Ion:	136	Resp:	229213
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.7	14.5
54	9.3	8.6	12.8
68	5.7	4.8	7.2



#23
Nitrobenzene-d5
Concen: 92.916 ng
RT: 9.32 min Scan# 1060
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Tgt Ion:	82	Resp:	460925
Ion	Ratio	Lower	Upper
82	100		
128	37.8	28.9	43.3
54	56.8	47.2	70.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.77 min Scan# 1988

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

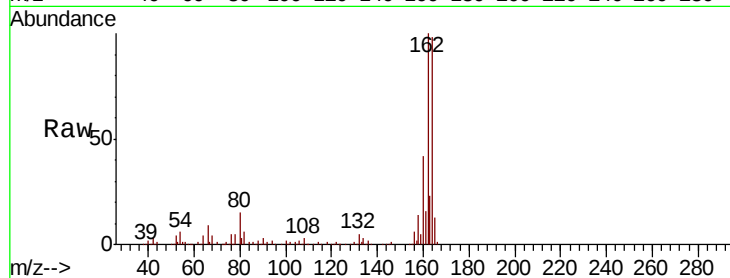
Tgt Ion:164 Resp: 177064

Ion Ratio Lower Upper

164 100

162 102.4 81.9 122.9

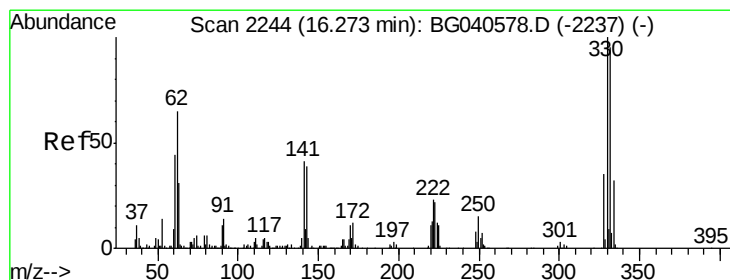
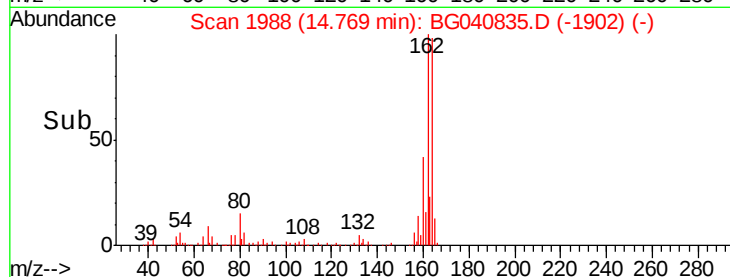
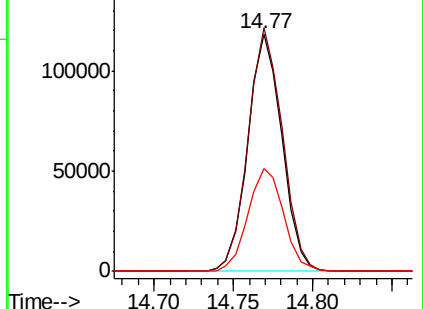
160 43.3 35.4 53.2



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: 142.290 ng

RT: 16.26 min Scan# 2241

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

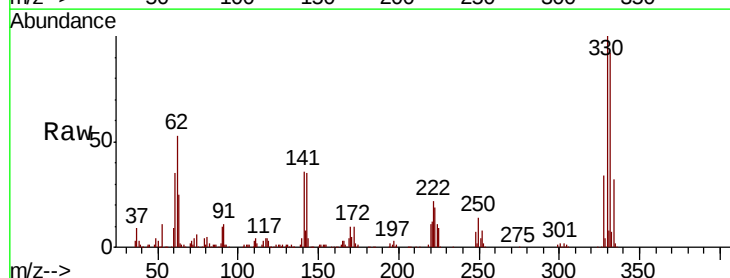
Tgt Ion:330 Resp: 346304

Ion Ratio Lower Upper

330 100

332 95.5 75.9 113.9

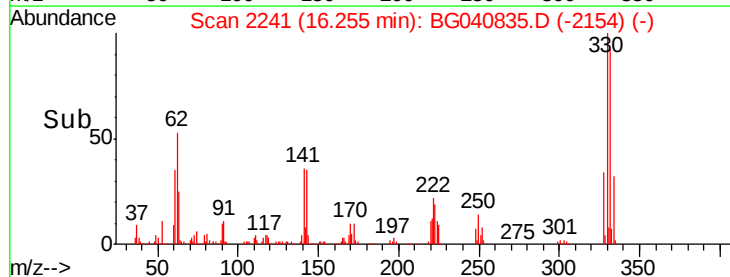
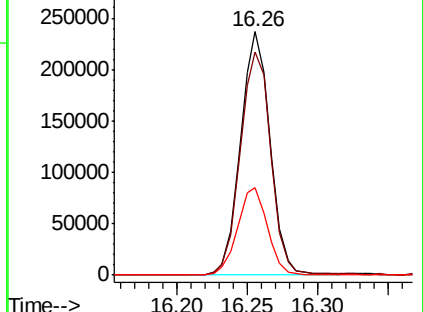
141 36.3 32.4 48.6

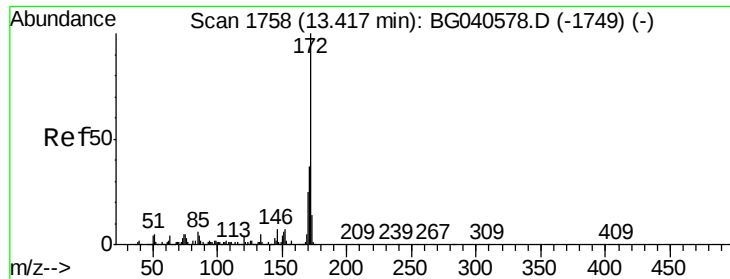


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

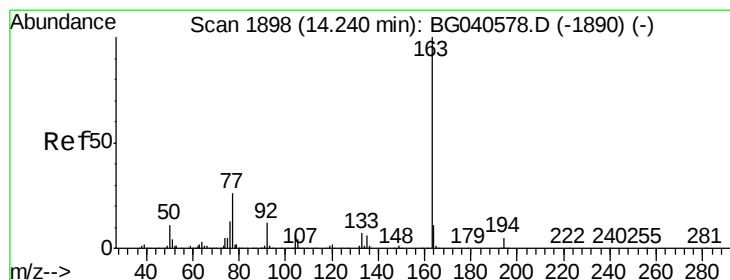
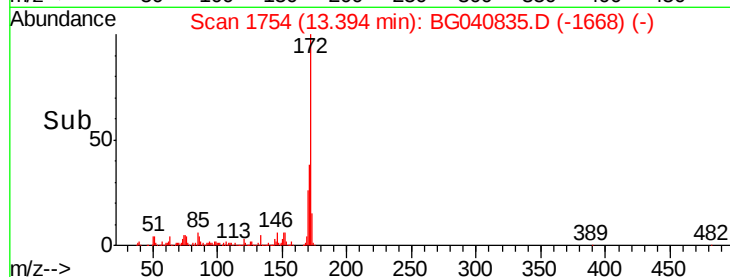
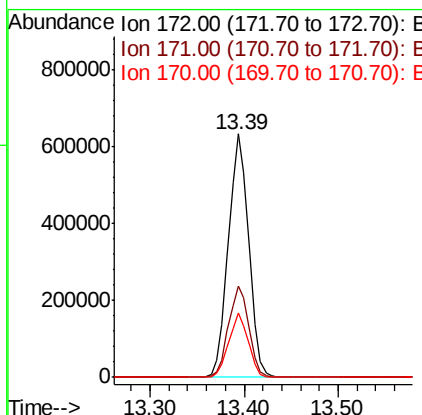
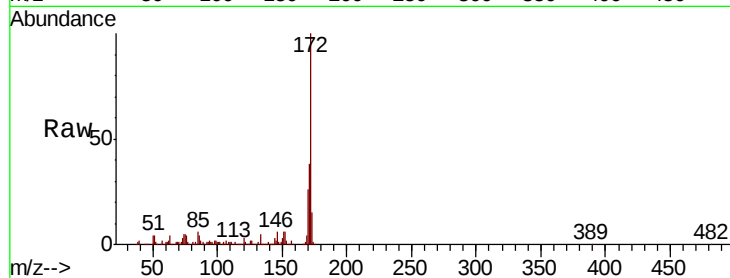




#45
2-Fluorobiphenyl
Concen: 77.750 ng
RT: 13.39 min Scan# 1754
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

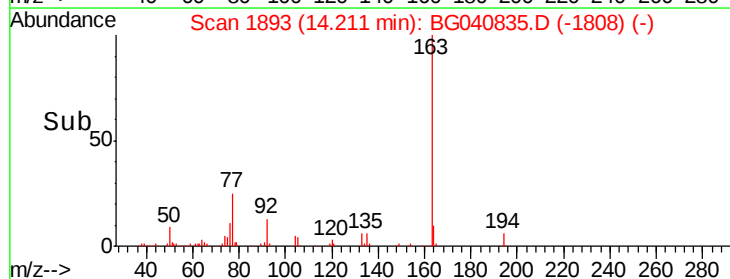
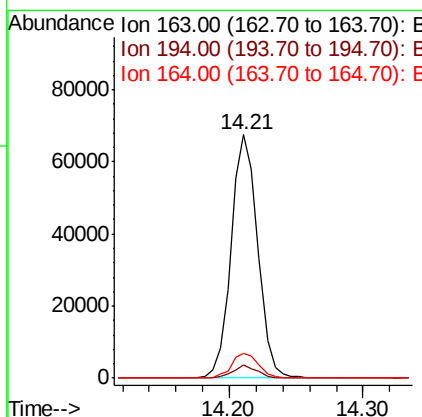
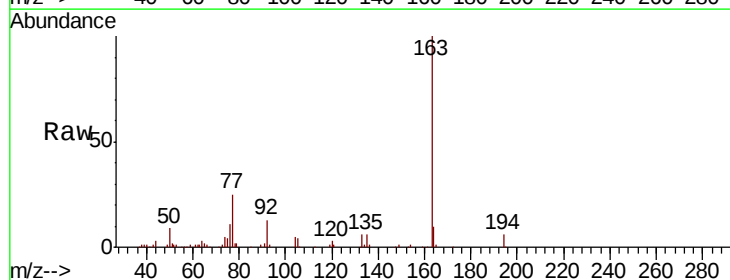
Instrument :
BNA_G
ClientSampleId :
P026-SS001-1218-01

Tgt Ion:172 Resp: 953240
Ion Ratio Lower Upper
172 100
171 37.6 29.4 44.2
170 26.4 19.9 29.9



#50
Dimethylphthalate
Concen: 6.317 ng
RT: 14.21 min Scan# 1893
Delta R.T. -0.03 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Tgt Ion:163 Resp: 93586
Ion Ratio Lower Upper
163 100
194 5.5 3.8 5.8
164 10.3 8.8 13.2





#57

2,4-Dinitrotoluene

Concen: 5.665 ng

RT: 14.77 min Scan# 1988

Delta R.T. -0.38 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

Tgt Ion:165 Resp: 22259

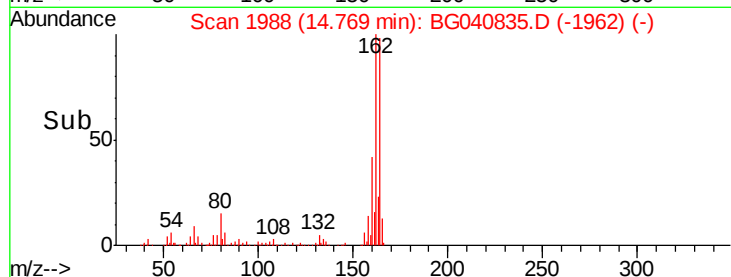
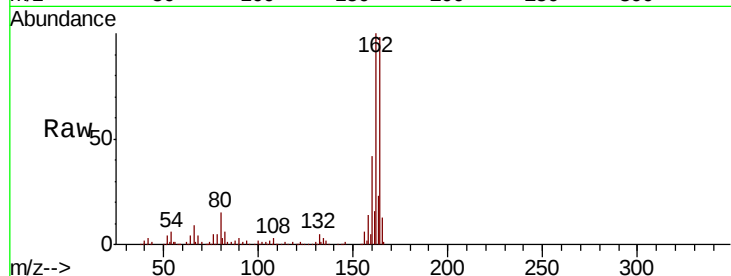
Ion Ratio Lower Upper

165 100

63 2.2 45.8 68.8#

89 2.0 69.4 104.2#

182 0.0 2.2 3.4#

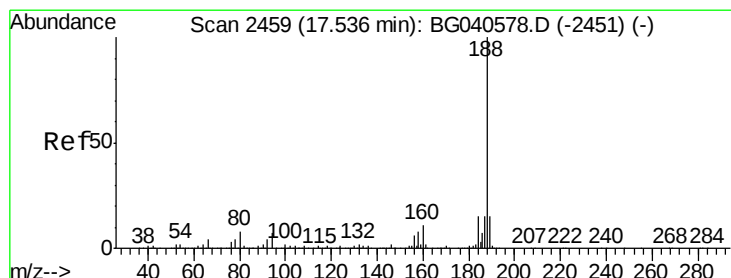
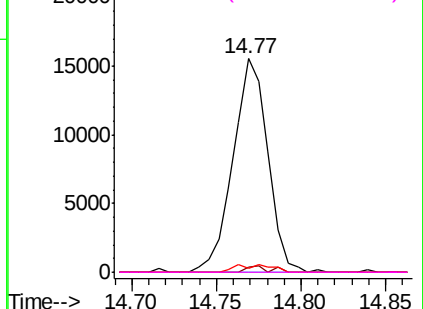


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.51 min Scan# 2455

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

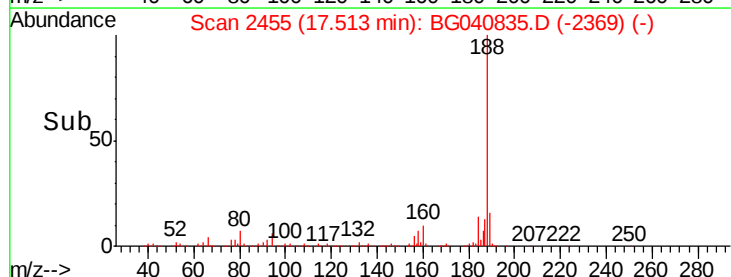
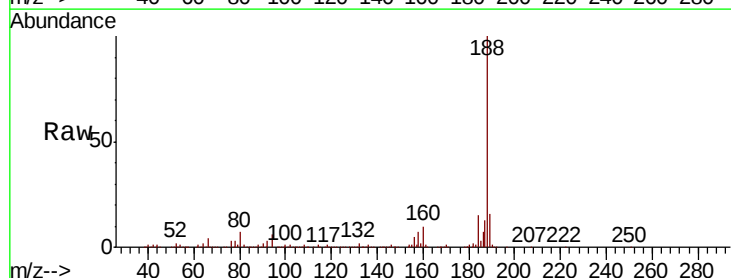
Tgt Ion:188 Resp: 461293

Ion Ratio Lower Upper

188 100

94 6.0 5.6 8.4

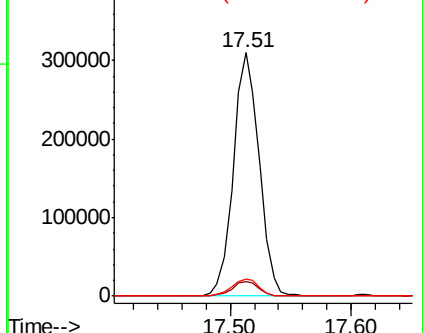
80 7.2 6.4 9.6

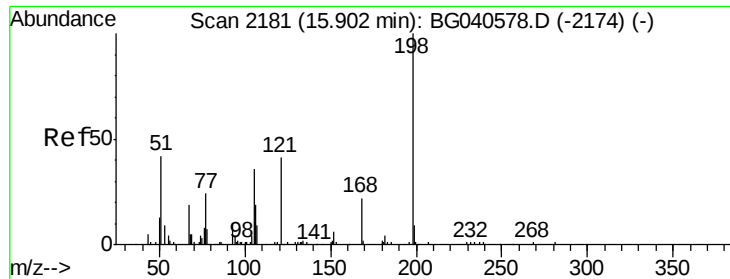


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

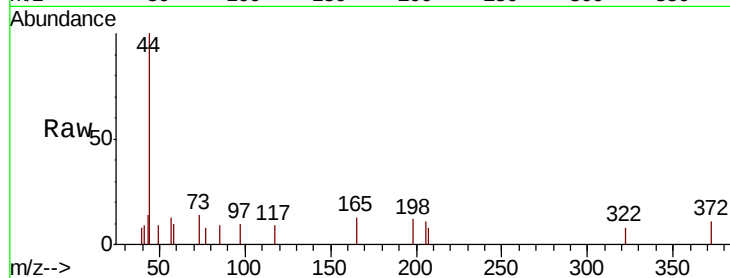




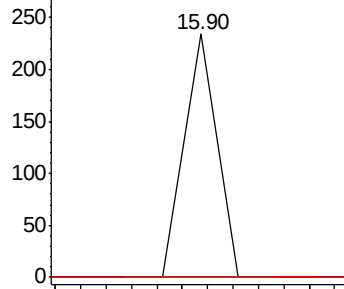
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.132 ng
 RT: 15.90 min Scan# 2181
 Delta R.T. 0.00 min
 Lab File: BG040835.D
 Acq: 10 May 2019 3:21

Instrument :
 BNA_G
 ClientSampleId :
 P026-SS001-1218-01

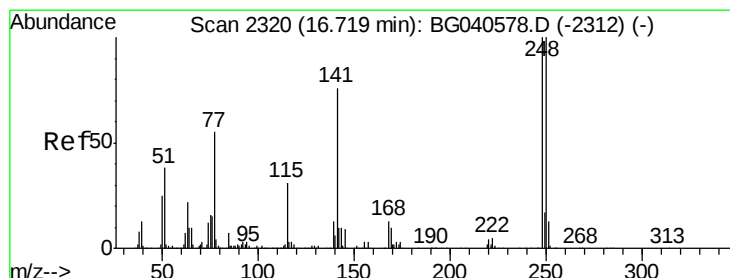
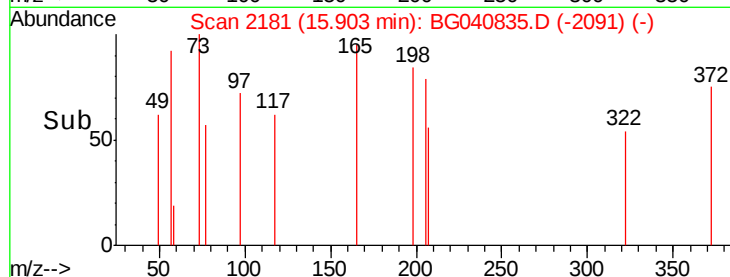
Tgt Ion:198 Resp: 83
 Ion Ratio Lower Upper
 198 100
 51 0.0 35.9 75.9#
 105 0.0 21.2 61.2#



Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BG
 Ion 105.00 (104.70 to 105.70): E

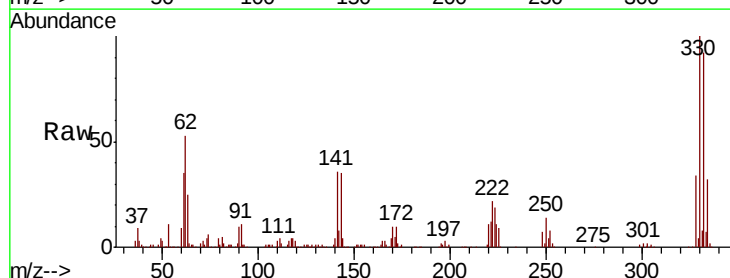


Time--> 15.88 15.90 15.92

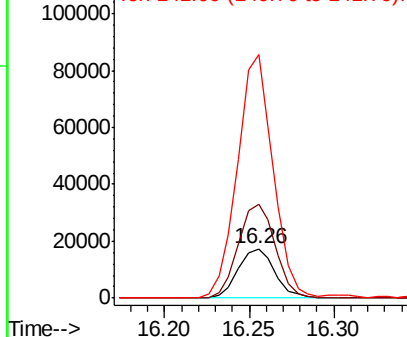


#67
 4-Bromophenyl-phenylether
 Concen: 4.530 ng
 RT: 16.26 min Scan# 2241
 Delta R.T. -0.46 min
 Lab File: BG040835.D
 Acq: 10 May 2019 3:21

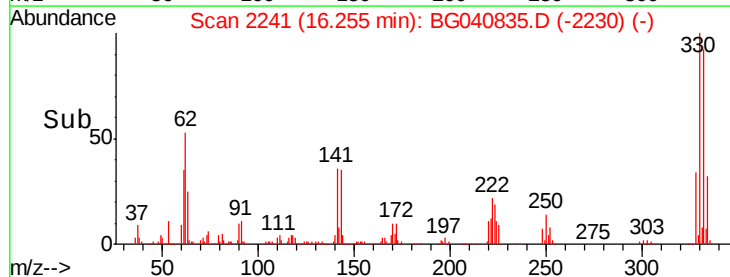
Tgt Ion:248 Resp: 26035
 Ion Ratio Lower Upper
 248 100
 250 190.3 79.8 119.6#
 141 496.4 60.8 91.2#

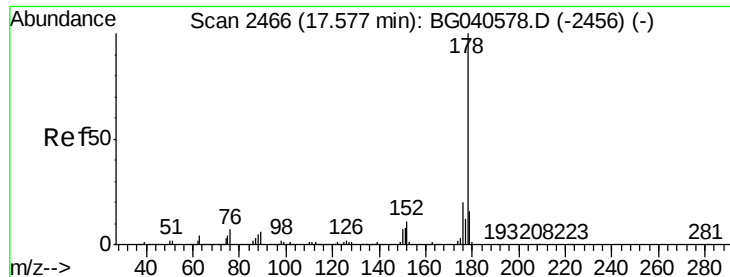


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E



Time--> 16.20 16.25 16.30

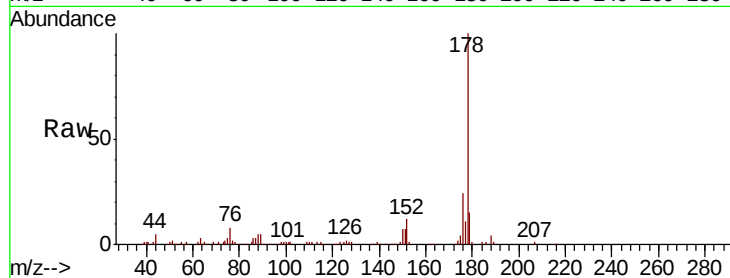




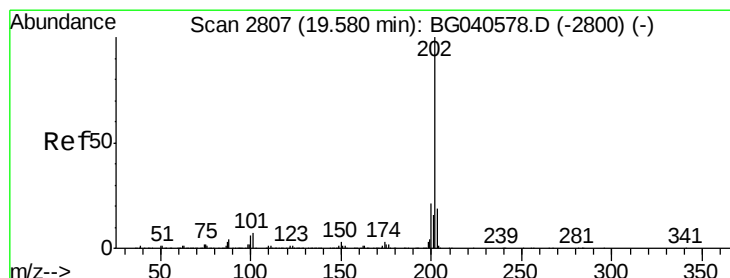
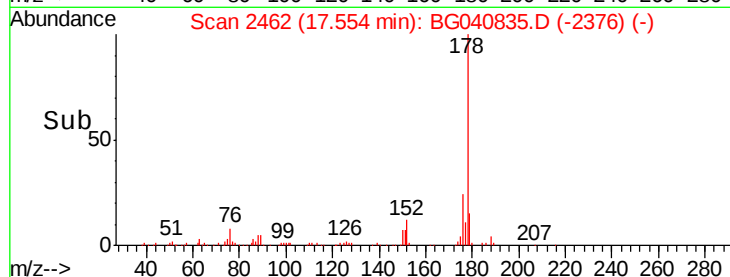
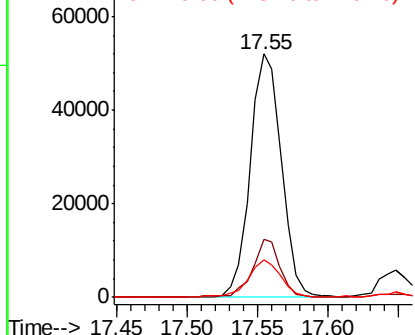
#71
Phenanthrene
Concen: 3.258 ng
RT: 17.55 min Scan# 2462
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Instrument :
BNA_G
ClientSampleId :
P026-SS001-1218-01

Tgt Ion:178 Resp: 80941
Ion Ratio Lower Upper
178 100
176 23.8 15.8 23.6#
179 15.4 12.6 18.8

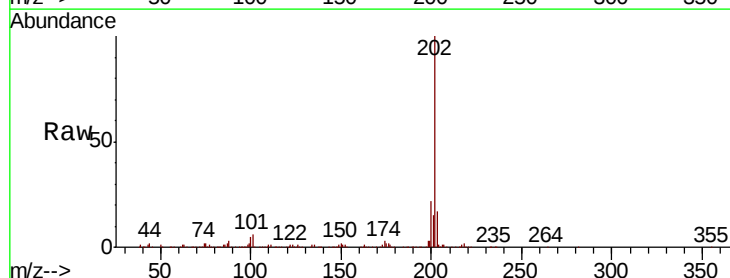


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

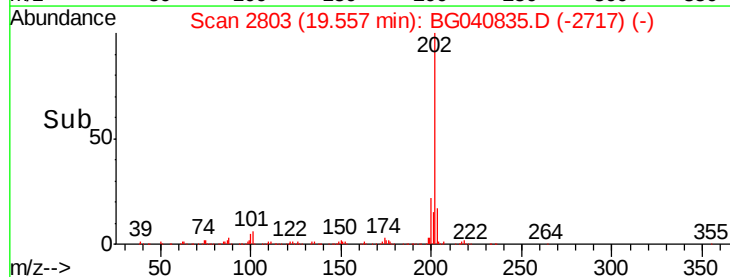
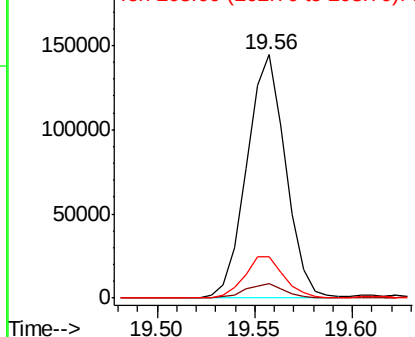


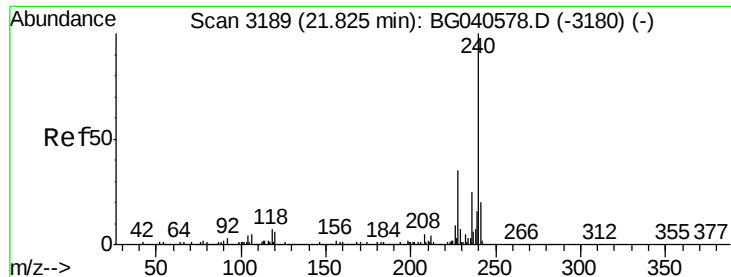
#75
Fluoranthene
Concen: 6.386 ng
RT: 19.56 min Scan# 2803
Delta R.T. -0.02 min
Lab File: BG040835.D
Acq: 10 May 2019 3:21

Tgt Ion:202 Resp: 197724
Ion Ratio Lower Upper
202 100
101 6.0 0.0 27.5
203 17.3 0.0 39.3



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: 21.80 min Scan# 3184

Delta R.T. -0.03 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

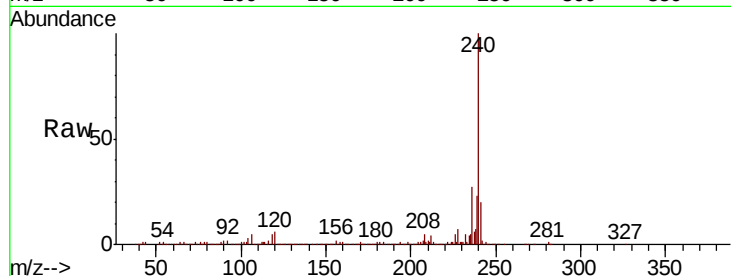
Tgt Ion:240 Resp: 441607

Ion Ratio Lower Upper

240 100

120 6.3 5.0 7.6

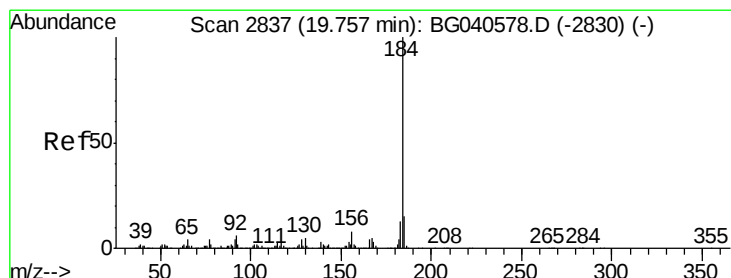
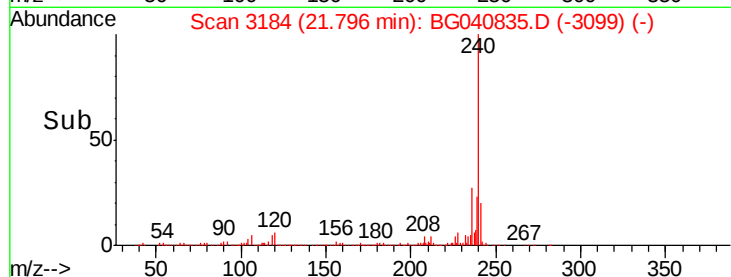
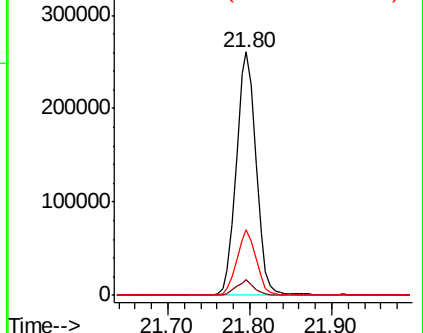
236 27.0 20.3 30.5



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



#77

Benzidine

Concen: 2.540 ng

RT: 20.10 min Scan# 2896

Delta R.T. 0.35 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

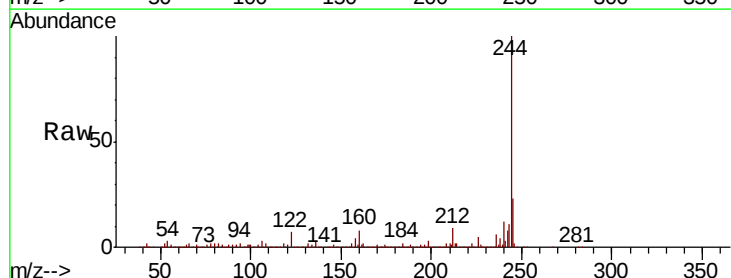
Tgt Ion:184 Resp: 30718

Ion Ratio Lower Upper

184 100

185 16.3 11.8 17.8

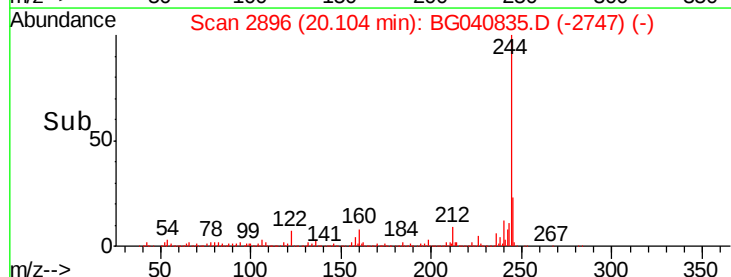
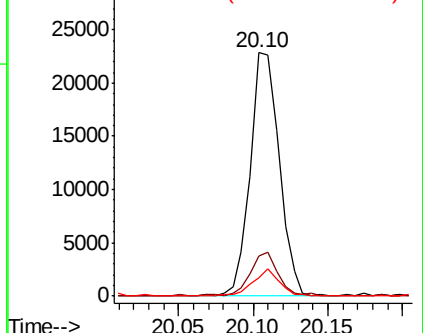
183 7.5 10.2 15.2#

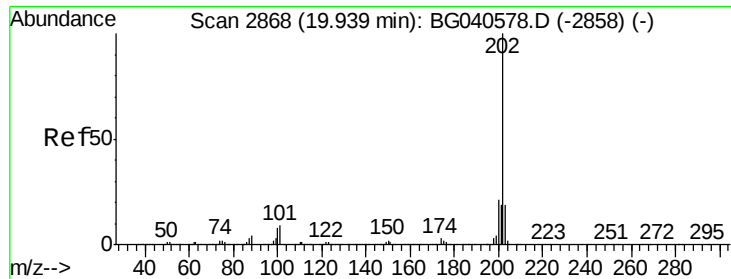


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Pyrene

Concen: 13.620 ng

RT: 19.92 min Scan# 2865

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

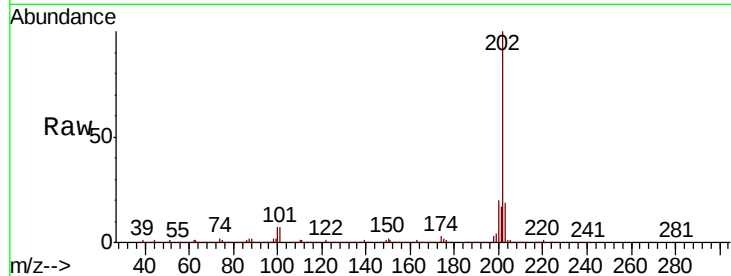
Tgt Ion:202 Resp: 376964

Ion Ratio Lower Upper

202 100

200 20.0 17.2 25.8

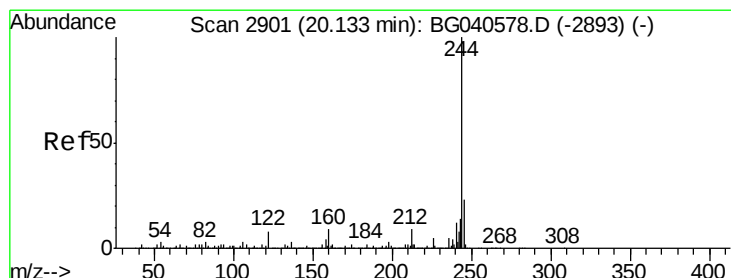
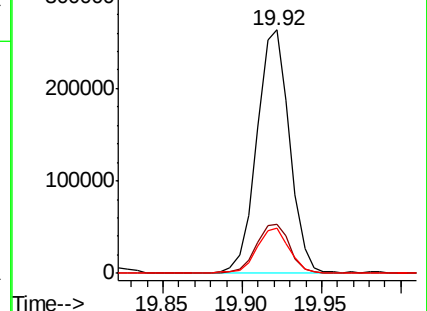
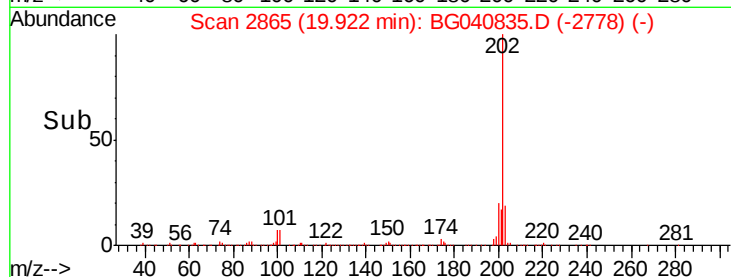
203 18.6 15.0 22.4



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: 82.958 ng

RT: 20.11 min Scan# 2897

Delta R.T. -0.02 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

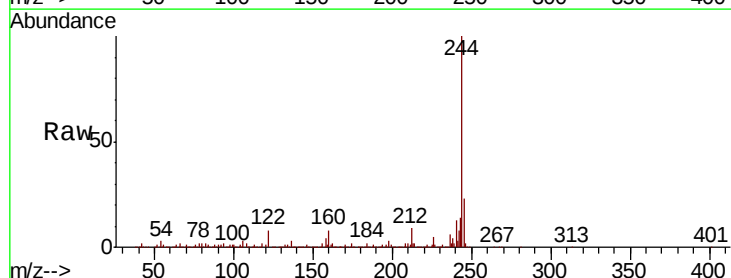
Tgt Ion:244 Resp: 1653633

Ion Ratio Lower Upper

244 100

212 9.3 7.2 10.8

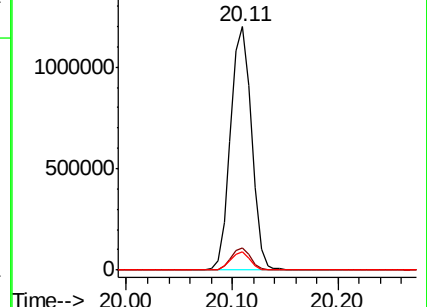
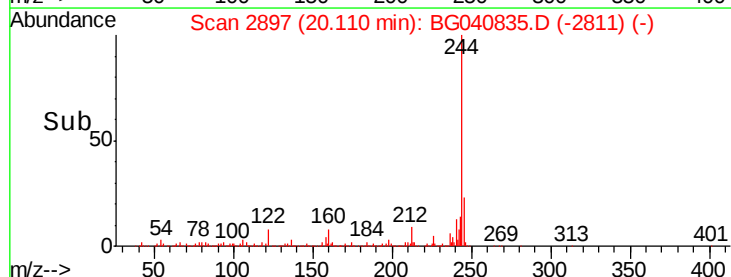
122 7.5 6.6 10.0

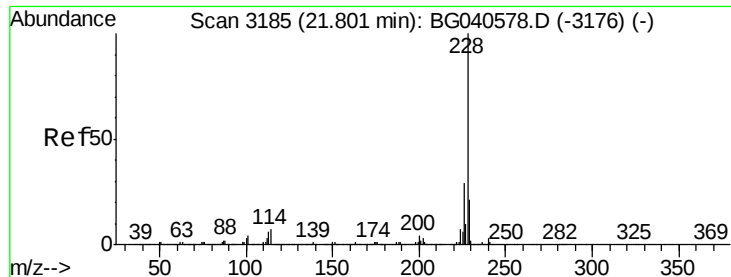


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 4.441 ng

RT: 21.77 min Scan# 3180

Delta R.T. -0.03 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

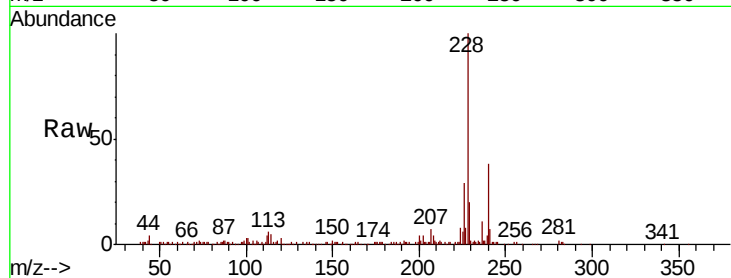
Tgt Ion:228 Resp: 123947

Ion Ratio Lower Upper

228 100

226 29.2 23.1 34.7

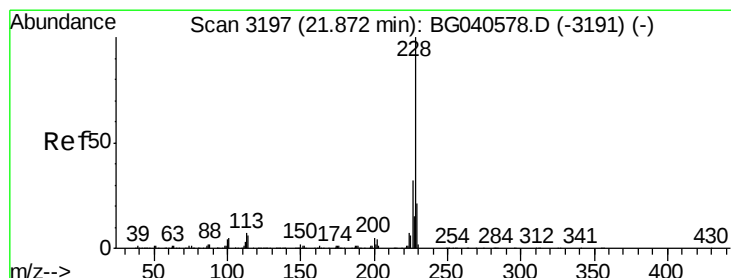
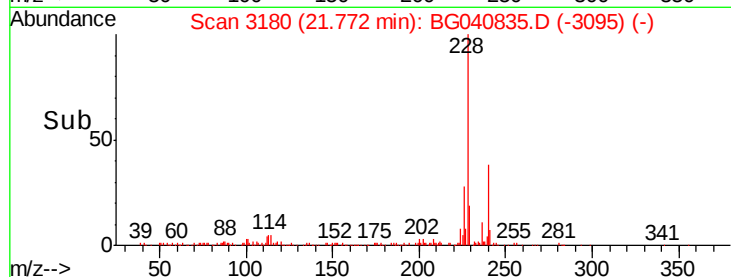
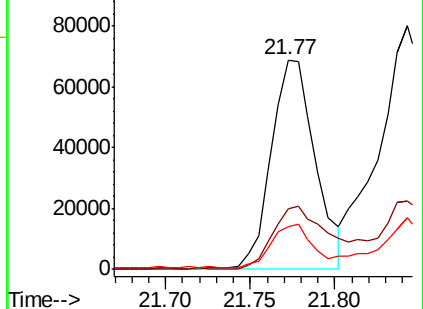
229 20.1 17.0 25.4



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: 6.037 ng

RT: 21.84 min Scan# 3192

Delta R.T. -0.03 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

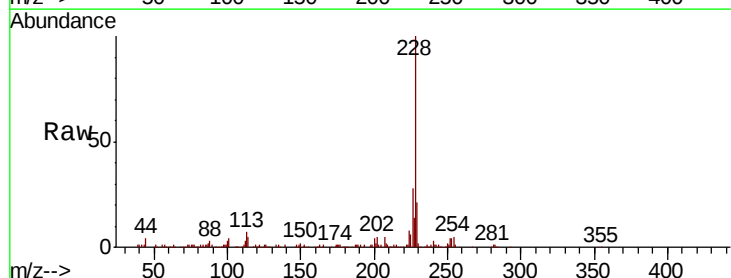
Tgt Ion:228 Resp: 160239

Ion Ratio Lower Upper

228 100

226 28.1 25.5 38.3

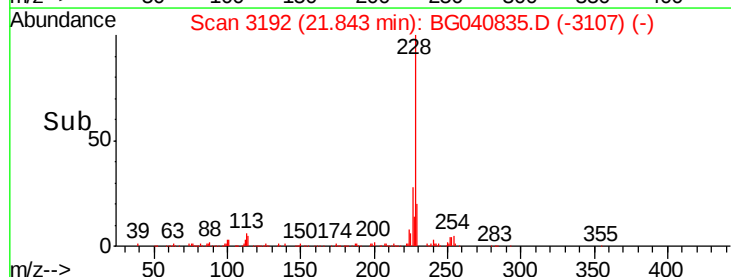
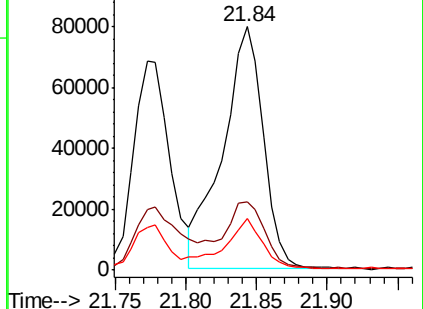
229 21.2 16.8 25.2

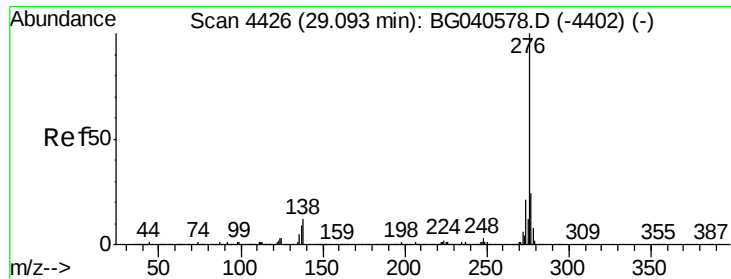


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.112 ng

RT: 28.98 min Scan# 4407

Delta R.T. -0.11 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

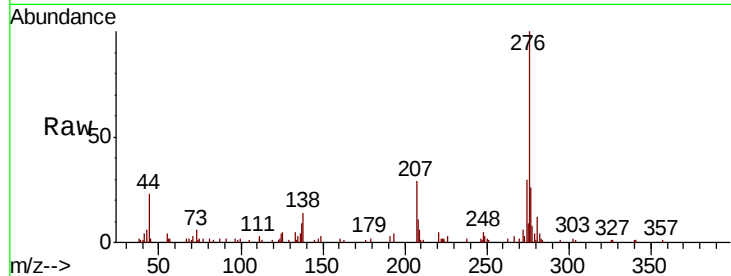
Tgt Ion:276 Resp: 67786

Ion Ratio Lower Upper

276 100

138 6.8 9.8 14.6#

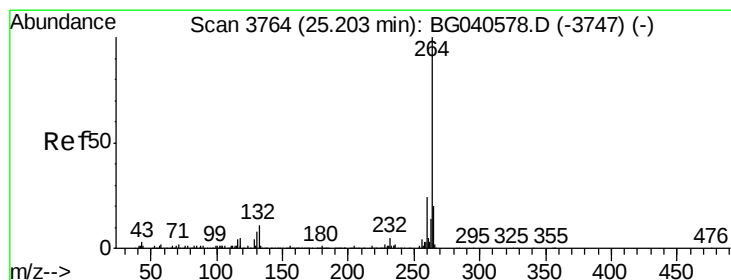
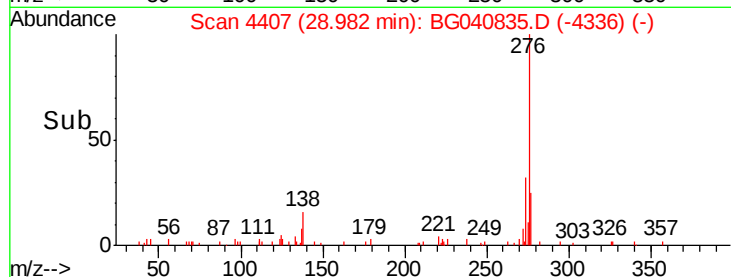
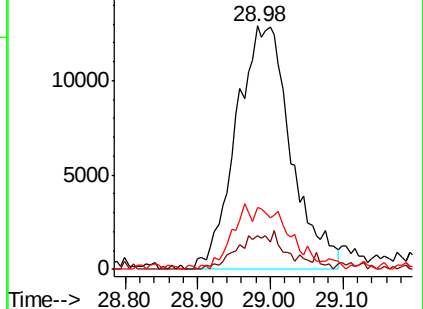
277 10.1 17.3 25.9#



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: 25.15 min Scan# 3755

Delta R.T. -0.05 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

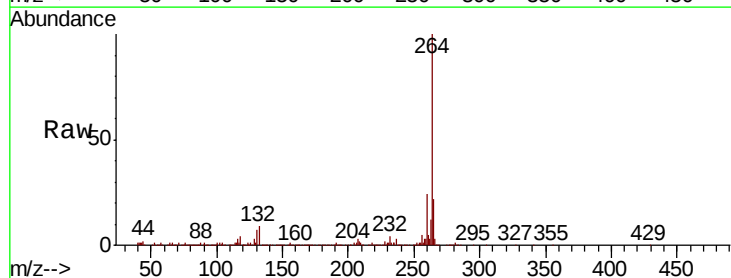
Tgt Ion:264 Resp: 471270

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

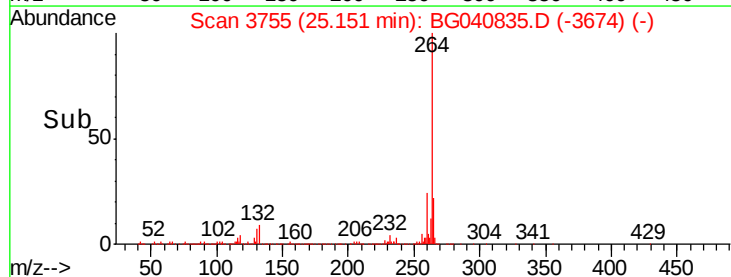
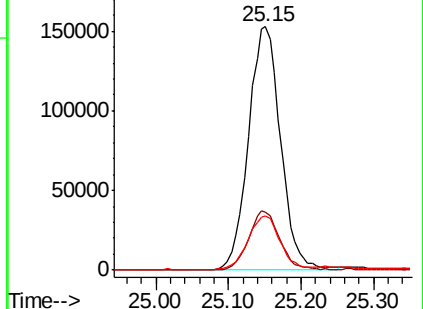
265 22.1 16.6 25.0

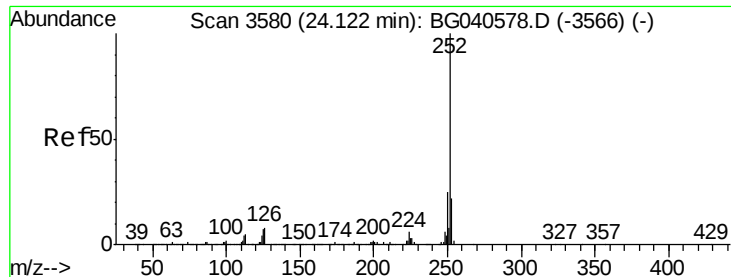


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 5.158 ng

RT: 24.08 min Scan# 3573

Delta R.T. -0.04 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

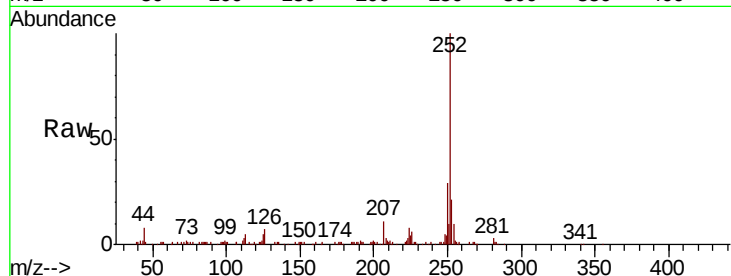
Tgt Ion:252 Resp: 148535

Ion Ratio Lower Upper

252 100

253 20.9 17.6 26.4

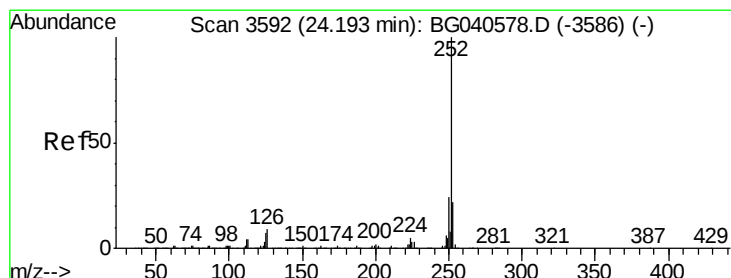
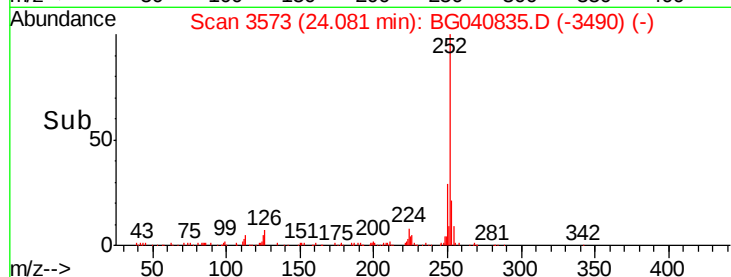
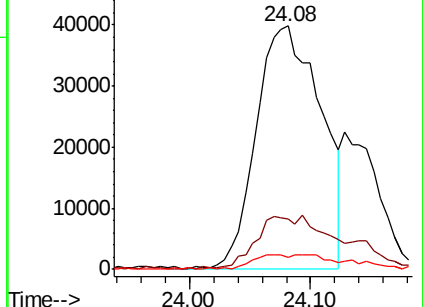
125 4.9 5.4 8.0#



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: 5.523 ng

RT: 24.08 min Scan# 3573

Delta R.T. -0.11 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

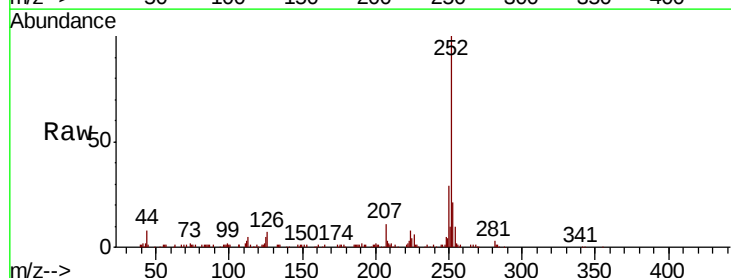
Tgt Ion:252 Resp: 148535

Ion Ratio Lower Upper

252 100

253 20.9 17.6 26.4

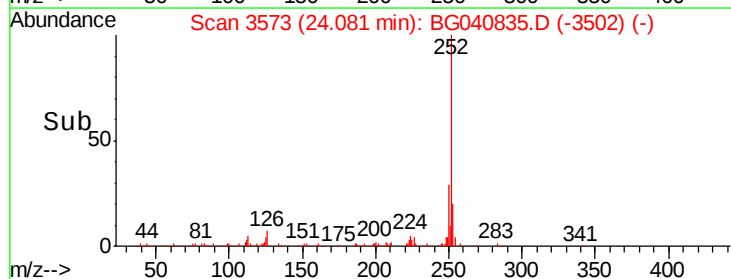
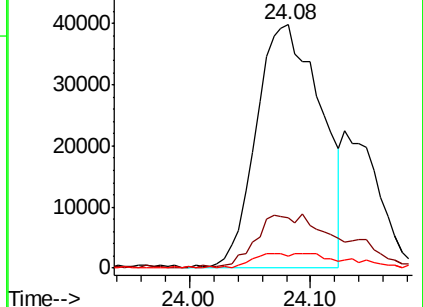
125 4.9 5.5 8.3#

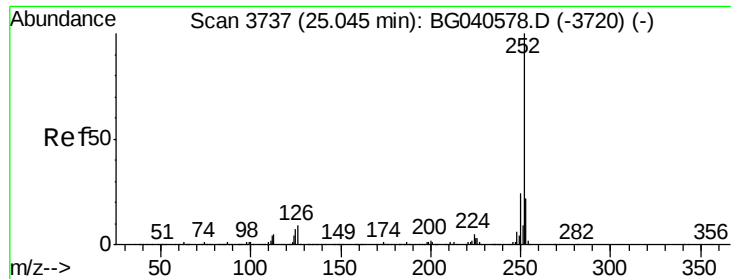


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 4.122 ng

RT: 24.83 min Scan# 3700

Delta R.T. -0.22 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

Instrument :

BNA_G

ClientSampleId :

P026-SS001-1218-01

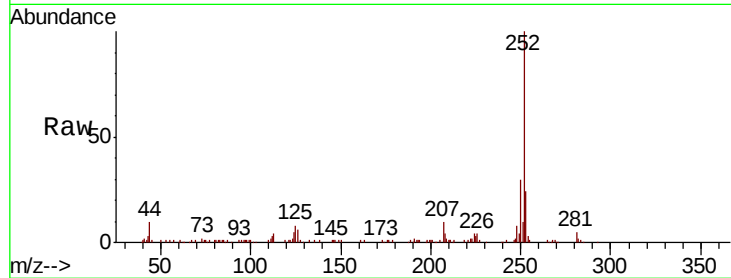
Tgt Ion:252 Resp: 112377

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.6

125 8.4 5.7 8.5

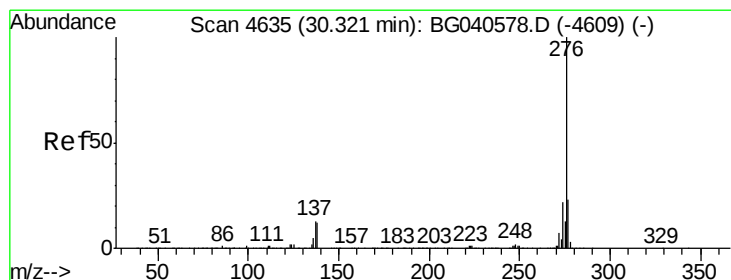
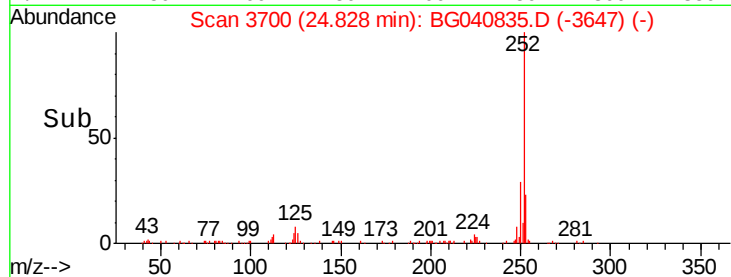
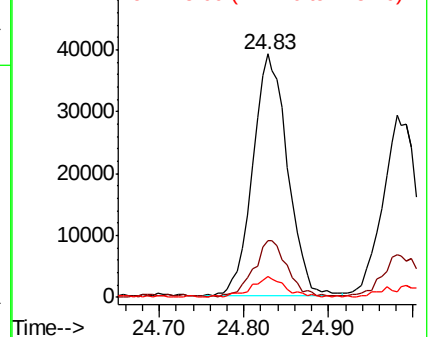


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 2.887 ng

RT: 30.20 min Scan# 4614

Delta R.T. -0.12 min

Lab File: BG040835.D

Acq: 10 May 2019 3:21

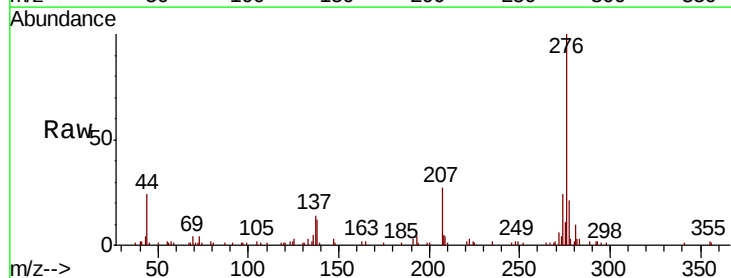
Tgt Ion:276 Resp: 79266

Ion Ratio Lower Upper

276 100

277 20.9 18.4 27.6

138 11.6 9.8 14.6



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

