

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG031620\
 Data File : BG044826.D
 Acq On : 16 Mar 2020 23:34
 Operator : CG/JU
 Sample : L1761-06 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SU-01-031220

Quant Time: Mar 17 01:24:30 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG031020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 16 17:37:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.06	152	129084	20.00	ng	0.00
21) Naphthalene-d8	10.86	136	493993	20.00	ng	0.00
39) Acenaphthene-d10	14.68	164	298040	20.00	ng	0.00
64) Phenanthrene-d10	17.43	188	596163	20.00	ng	0.00
76) Chrysene-d12	21.70	240	513675	20.00	ng	0.00
87) Perylene-d12	24.92	264	584962	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	374237	45.13	ng	0.00
7) Phenol-d6	7.20	99	551540	45.78	ng	0.00
23) Nitrobenzene-d5	9.20	82	359075	31.90	ng	0.00
42) 2,4,6-Tribromophenol	16.17	330	187114	47.95	ng	0.00
45) 2-Fluorobiphenyl	13.31	172	711479	34.19	ng	0.00
79) Terphenyl-d14	20.04	244	912218	33.22	ng	0.00

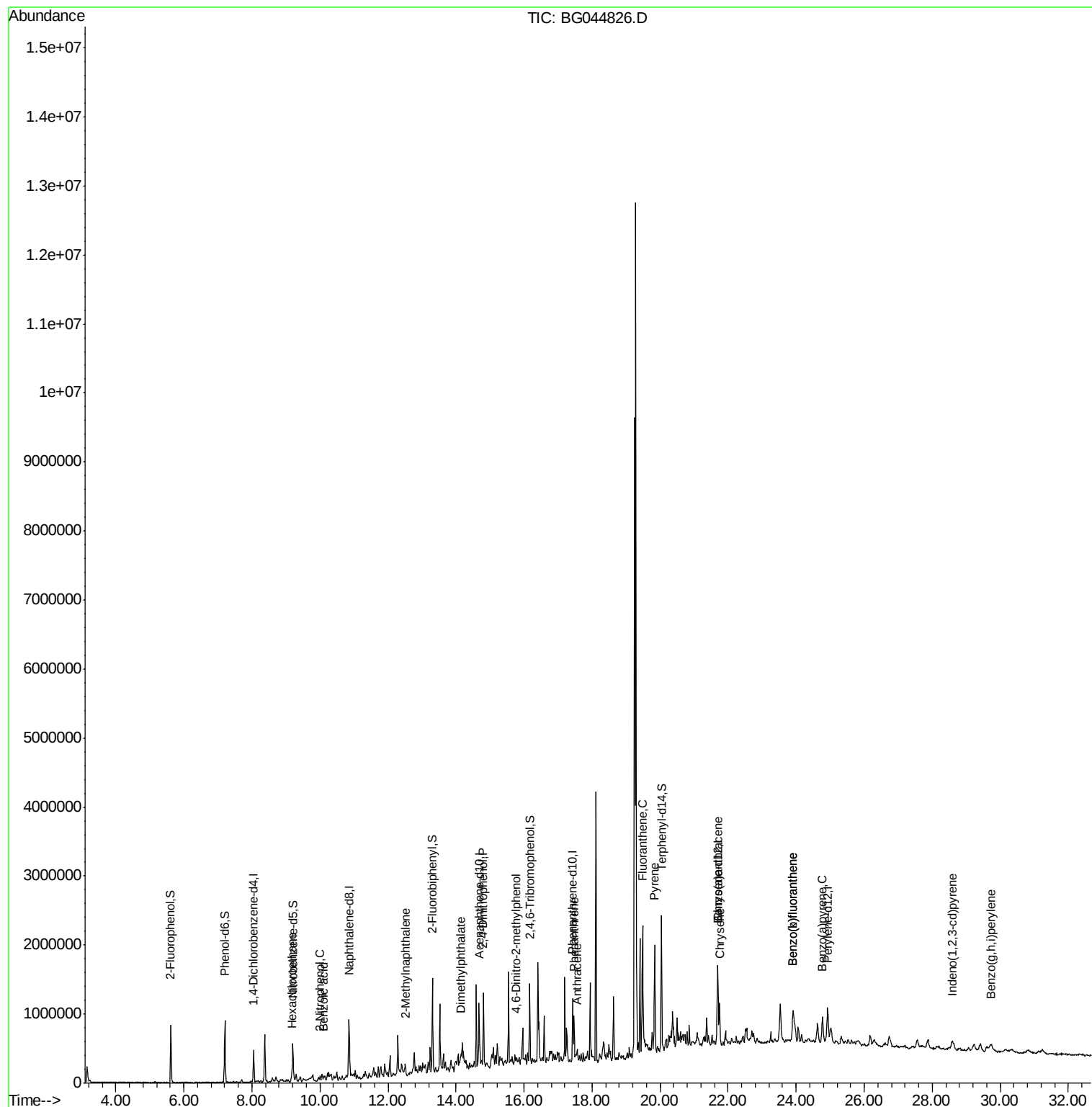
Target Compounds				Qvalue		
9) Benzaldehyde	7.17	77	469	Below Cal	#	62
18) Hexachloroethane	9.17	117	8635	2.18	ng	# 1
26) 2-Nitrophenol	9.99	139	584	5.64	ng	# 1
32) Benzoic acid	10.12	122	145	9.69	ng	# 1
37) 2-Methylnaphthalene	12.51	142	48070	2.35	ng	86
50) Dimethylphthalate	14.13	163	67943	2.86	ng	# 94
54) 2,4-Dinitrophenol	14.81	184	3059	9.42	ng	# 60
65) 4,6-Dinitro-2-methylphenol	15.79	198	158	7.78	ng	# 1
71) Phenanthrene	17.47	178	406088	12.75	ng	99
72) Anthracene	17.56	178	112612	3.58	ng	98
75) Fluoranthene	19.48	202	794265	20.94	ng	98
78) Pyrene	19.84	202	768290	20.39	ng	100
81) Benzo(a)anthracene	21.69	228	471095	12.74	ng	99
83) Chrysene	21.75	228	439063	12.43	ng	98
86) Indeno(1,2,3-cd)pyrene	28.59	276	256897	5.55	ng	# 91
88) Benzo(b)fluoranthene	23.91	252	597623	15.48	ng	95
89) Benzo(k)fluoranthene	23.91	252	597623	16.35	ng	# 96
90) Benzo(a)pyrene	24.78	252	454278	12.57	ng	99
92) Benzo(g,h,i)perylene	29.73	276	238776	6.63	ng	97

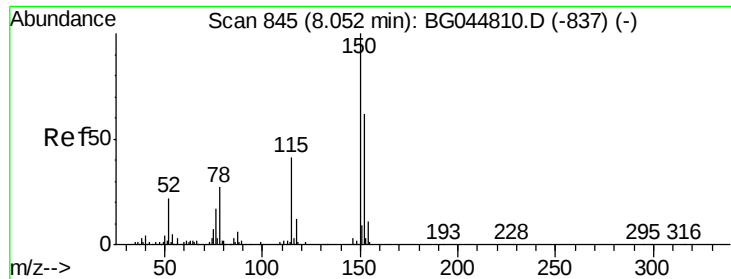
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG031020.M
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QLast Update : Mon Mar 16 17:37:15 2020
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.06 min Scan# 845

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

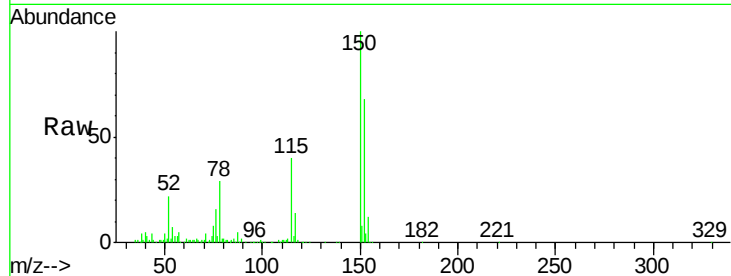
Tgt Ion:152 Resp: 129084

Ion Ratio Lower Upper

152 100

150 146.9 128.8 193.2

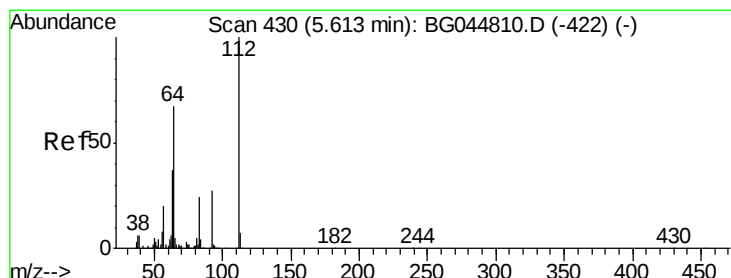
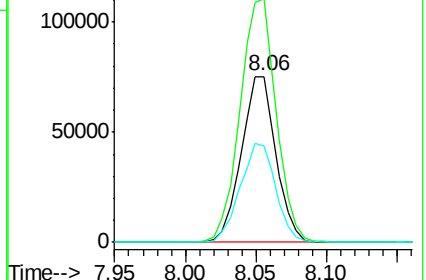
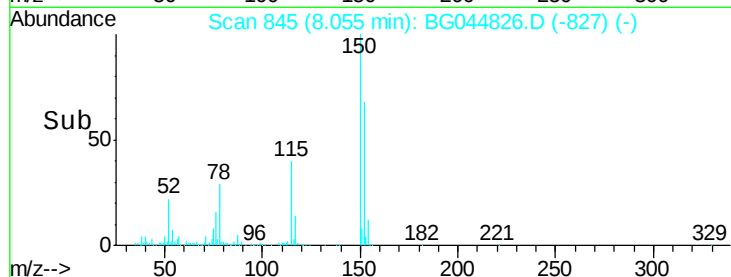
115 58.2 52.6 79.0



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: 45.13 ng

RT: 5.62 min Scan# 430

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

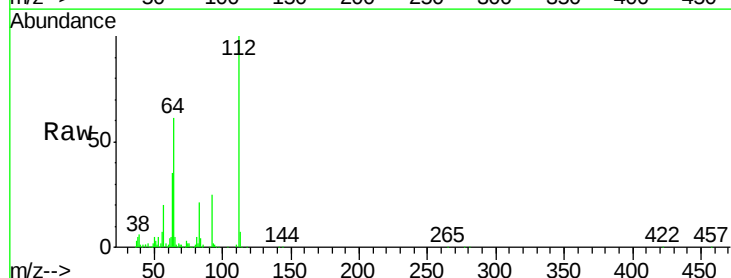
Tgt Ion:112 Resp: 374237

Ion Ratio Lower Upper

112 100

64 61.3 53.4 80.2

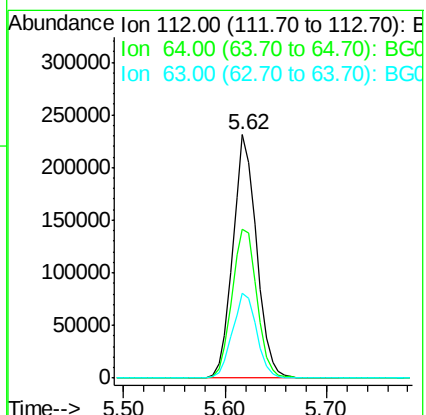
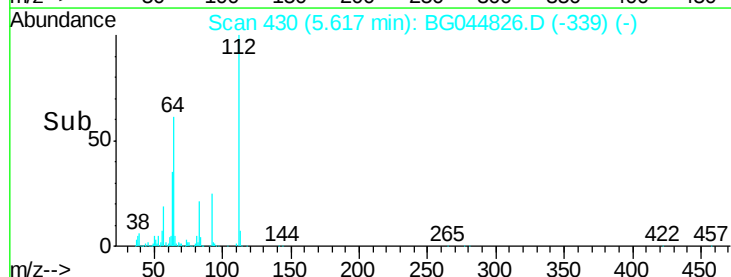
63 34.8 29.4 44.2

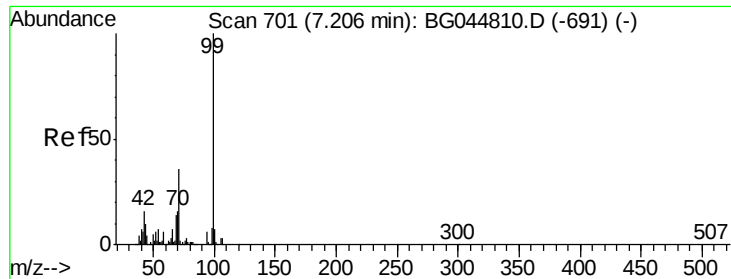


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 45.78 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

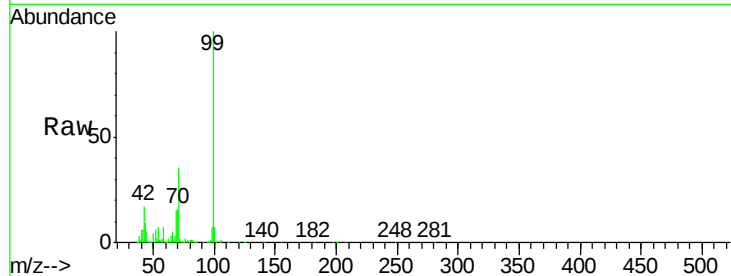
Tgt Ion: 99 Resp: 551540

Ion Ratio Lower Upper

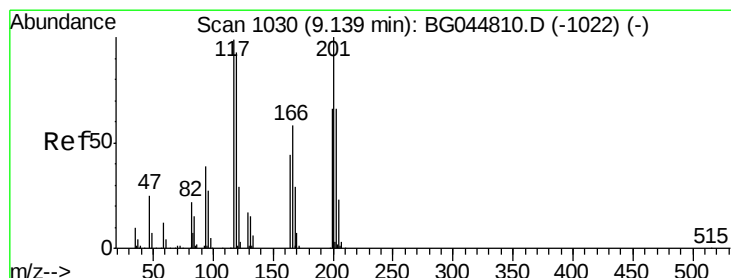
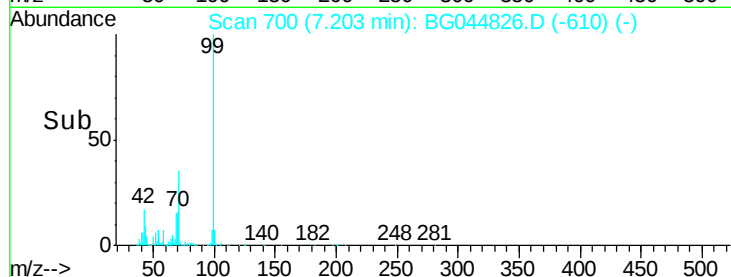
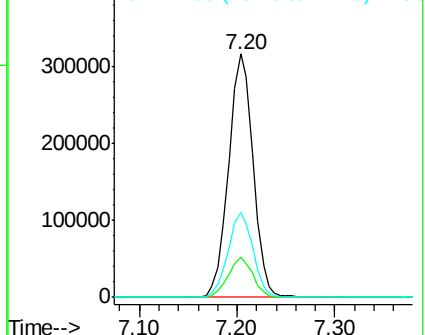
99 100

42 16.7 12.6 19.0

71 34.9 29.0 43.4



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



#18

Hexachloroethane

Concen: 2.18 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.03 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

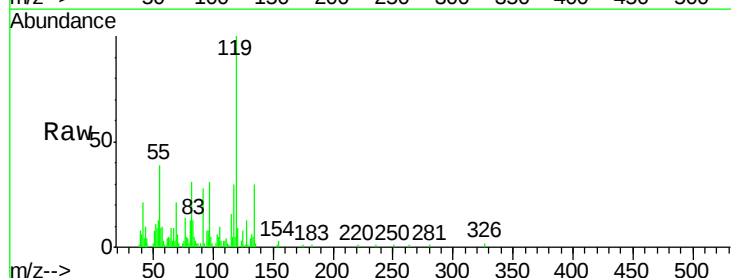
Tgt Ion: 117 Resp: 8635

Ion Ratio Lower Upper

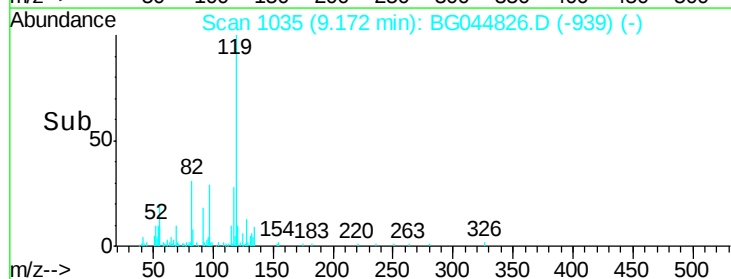
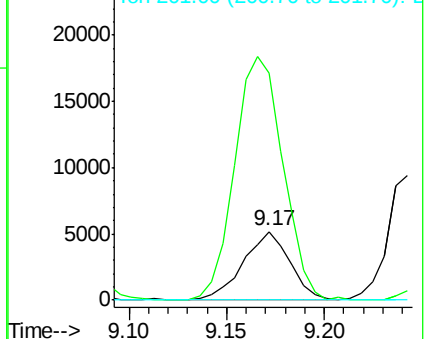
117 100

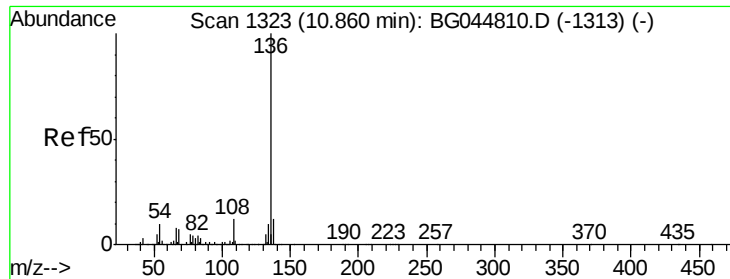
119 331.0 75.2 112.8#

201 0.0 81.1 121.7#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

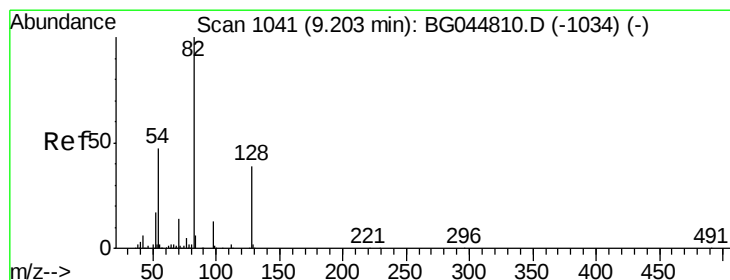
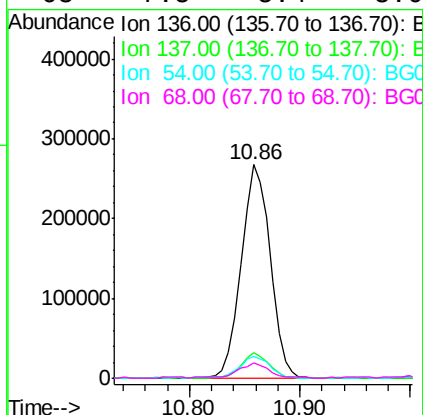
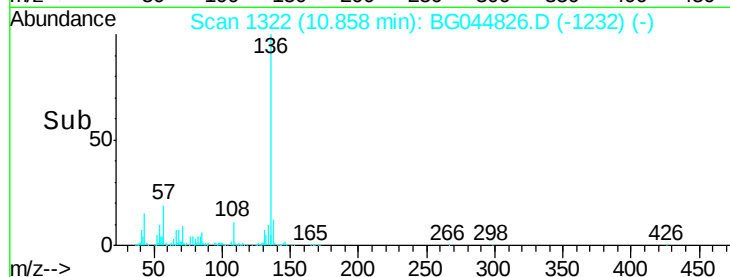
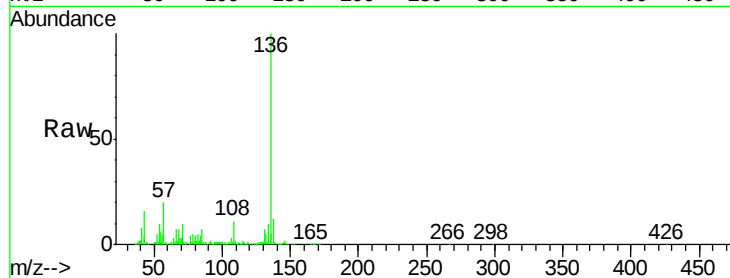




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.86 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

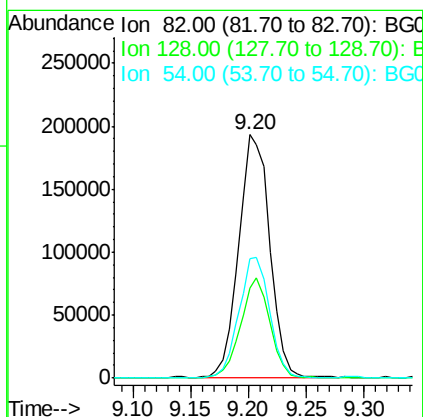
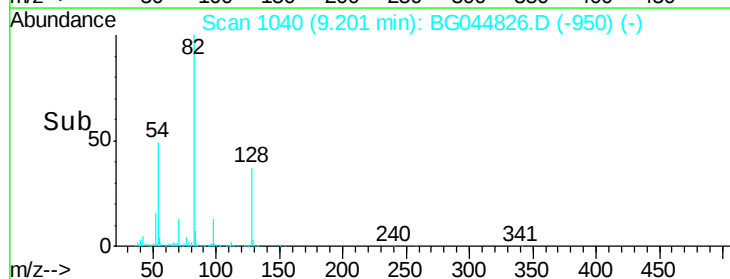
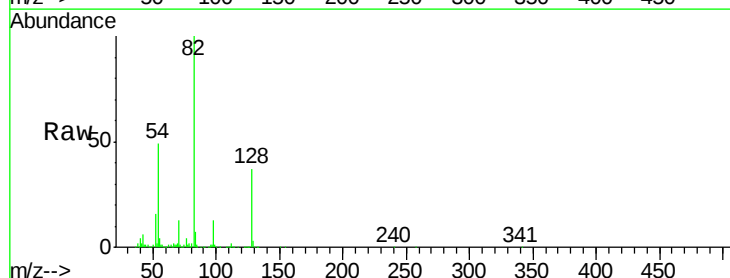
Instrument :
BNA_G
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SU-01-031220

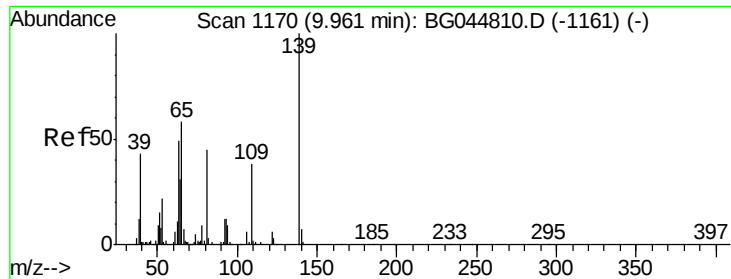
Tgt Ion:	136	Resp:	493993
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.8	14.6
54	9.9	7.9	11.9
68	7.5	5.4	8.0



#23
Nitrobenzene-d5
Concen: 31.90 ng
RT: 9.20 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

Tgt Ion:	82	Resp:	359075
Ion	Ratio	Lower	Upper
82	100		
128	37.0	30.6	46.0
54	48.9	37.1	55.7

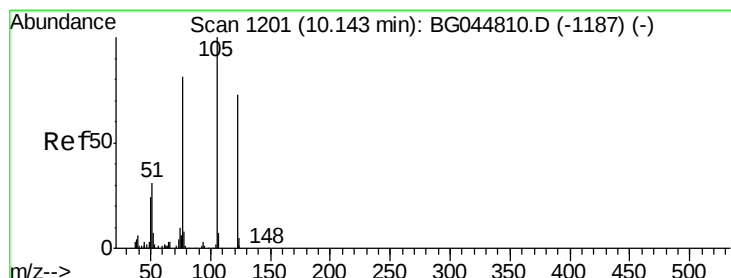
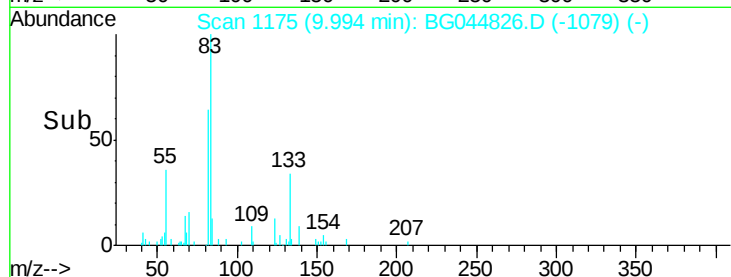
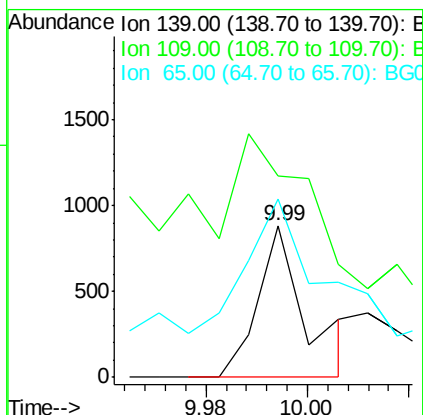
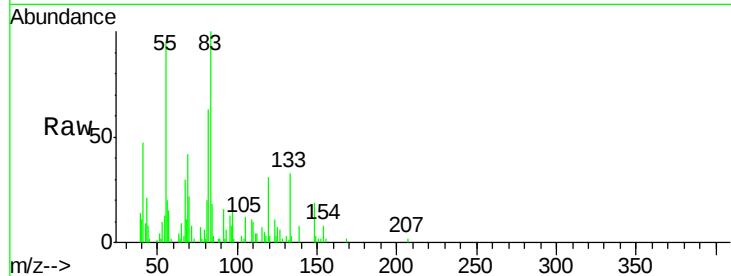




#26
2-Nitrophenol
Concen: 5.64 ng
RT: 9.99 min Scan# 1175
Delta R.T. 0.03 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

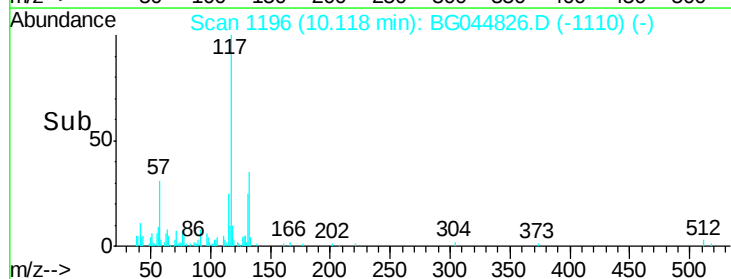
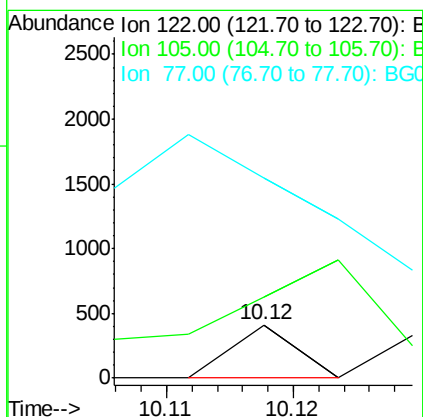
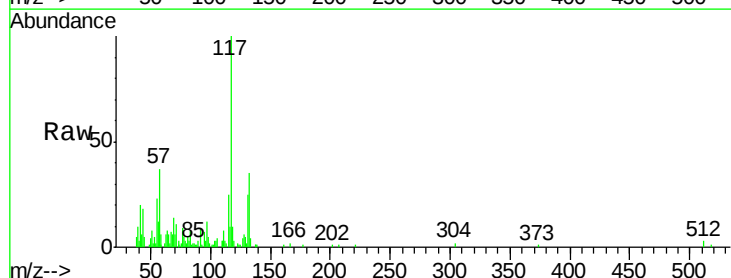
Instrument :
BNA_G
ClientSampleId :
SU-01-031220

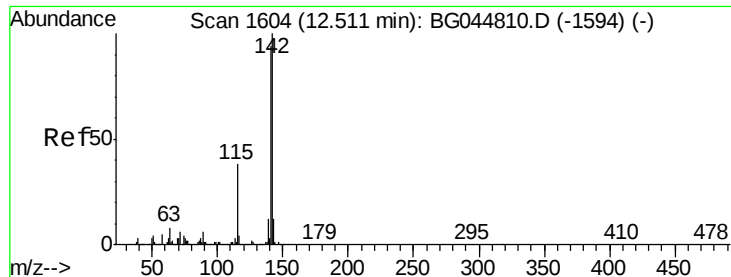
Tgt Ion:139 Resp: 584
Ion Ratio Lower Upper
139 100
109 132.6 30.2 45.4#
65 117.7 46.3 69.5#



#32
Benzoic acid
Concen: 9.69 ng
RT: 10.12 min Scan# 1196
Delta R.T. -0.03 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

Tgt Ion:122 Resp: 145
Ion Ratio Lower Upper
122 100
105 153.9 109.1 149.1#
77 376.6 85.3 125.3#





#37

2-Methylnaphthalene

Concen: 2.35 ng

RT: 12.51 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

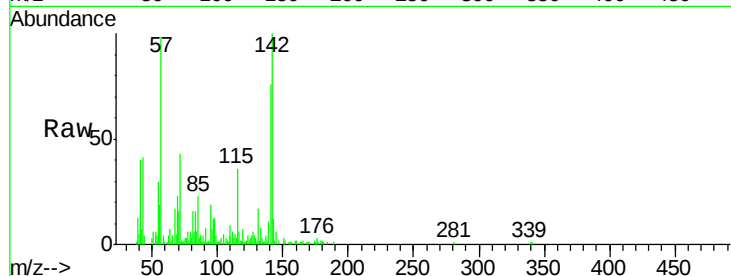
Tgt Ion:142 Resp: 48070

Ion Ratio Lower Upper

142 100

141 76.3 75.1 112.7

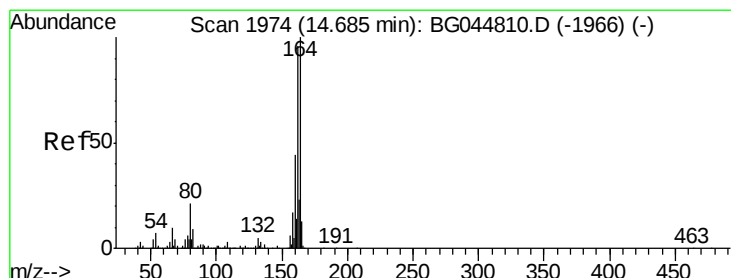
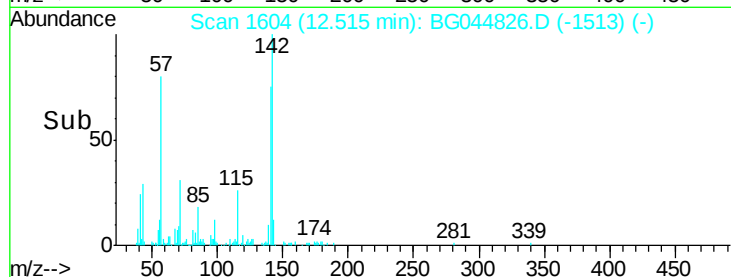
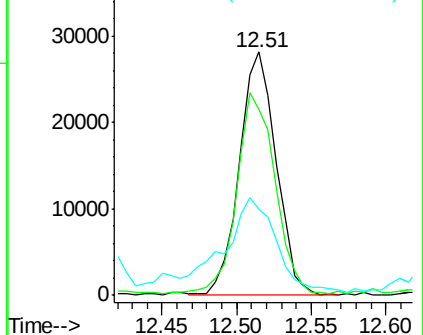
115 35.6 30.6 46.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

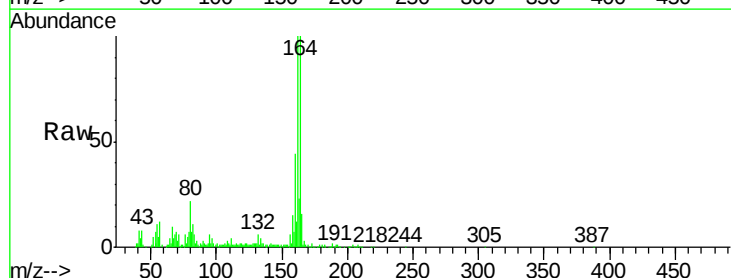
Tgt Ion:164 Resp: 298040

Ion Ratio Lower Upper

164 100

162 99.8 76.7 115.1

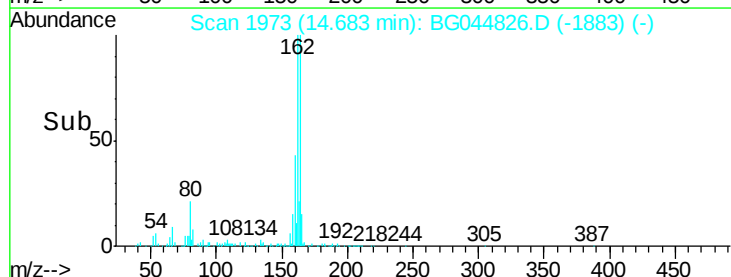
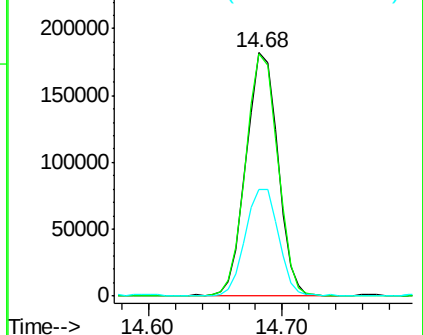
160 43.7 35.0 52.4

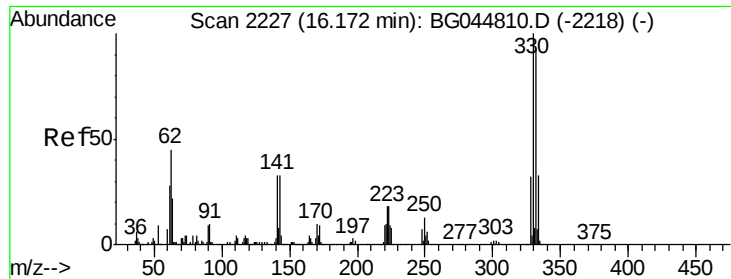


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

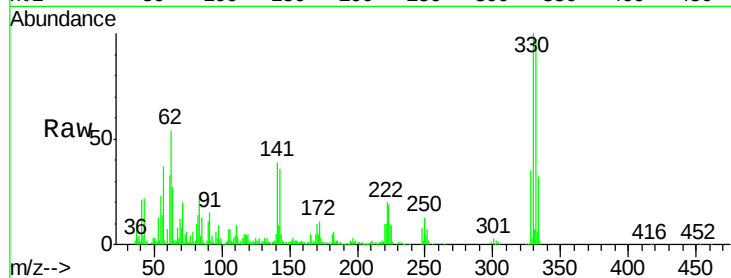




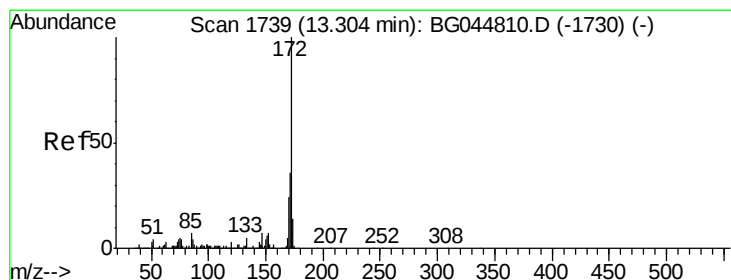
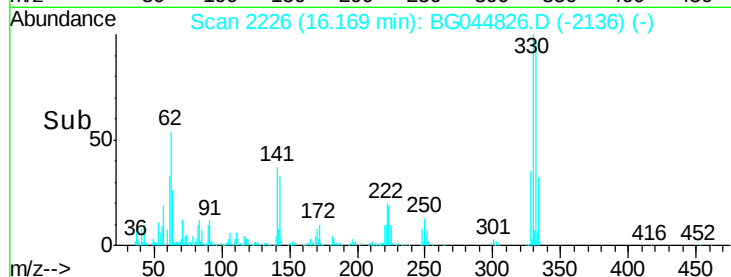
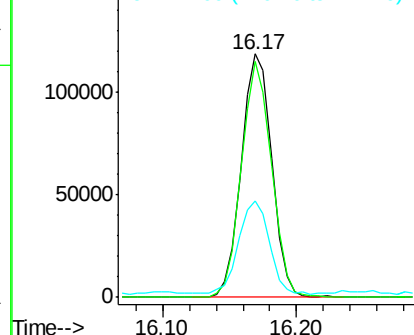
#42
 2,4,6-Tribromophenol
 Concen: 47.95 ng
 RT: 16.17 min Scan# 2226
 Delta R.T. -0.00 min
 Lab File: BG044826.D
 Acq: 16 Mar 2020 23:34

Instrument :
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 SU-01-031220

Tgt Ion:330 Resp: 187114
 Ion Ratio Lower Upper
 330 100
 332 95.6 77.8 116.6
 141 37.8 29.5 44.3

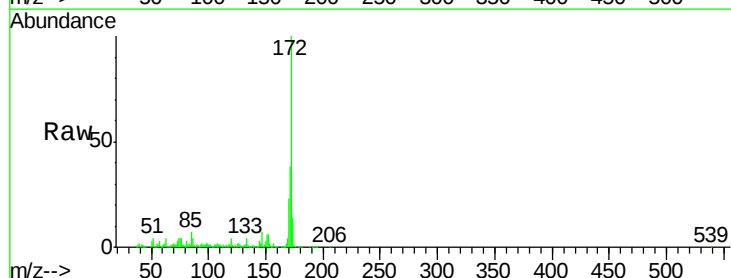


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

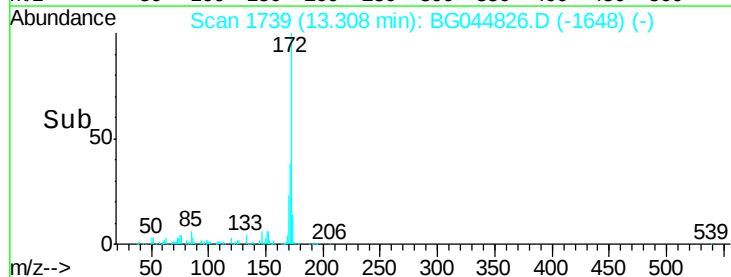
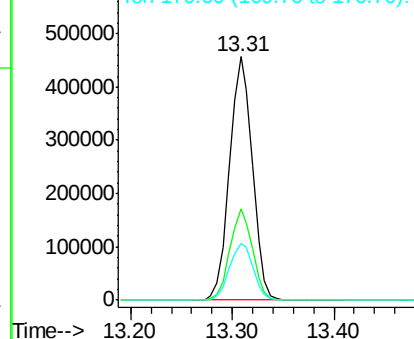


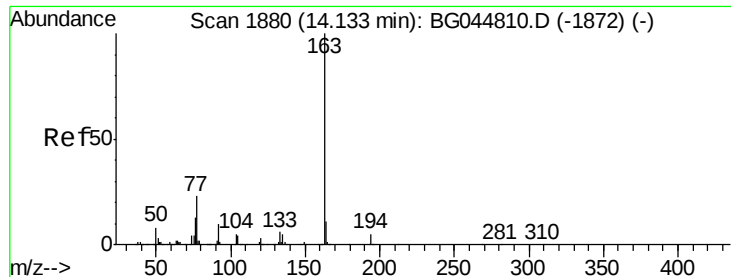
#45
 2-Fluorobiphenyl
 Concen: 34.19 ng
 RT: 13.31 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: BG044826.D
 Acq: 16 Mar 2020 23:34

Tgt Ion:172 Resp: 711479
 Ion Ratio Lower Upper
 172 100
 171 37.7 28.7 43.1
 170 23.1 19.0 28.6



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.86 ng

RT: 14.13 min Scan# 1879

Delta R.T. -0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

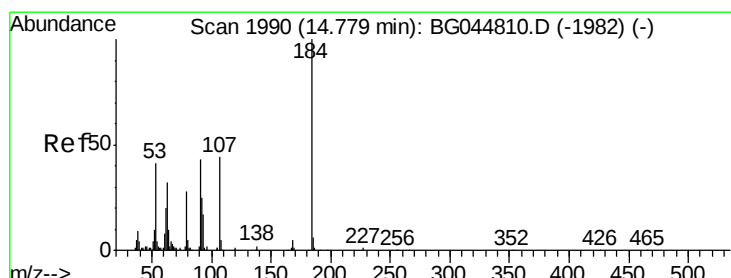
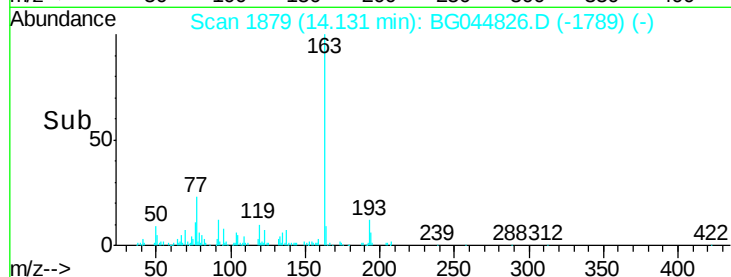
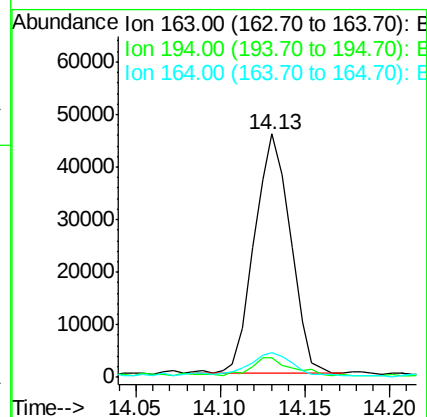
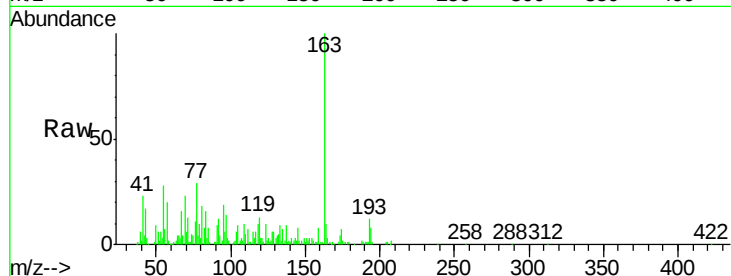
Tgt Ion:163 Resp: 67943

Ion Ratio Lower Upper

163 100

194 7.8 3.7 5.5#

164 10.0 9.1 13.7



#54

2,4-Dinitrophenol

Concen: 9.42 ng

RT: 14.81 min Scan# 1994

Delta R.T. 0.03 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

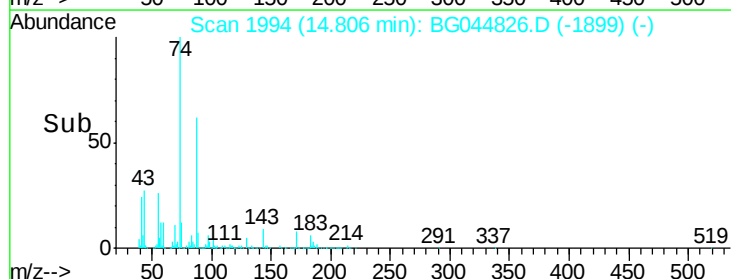
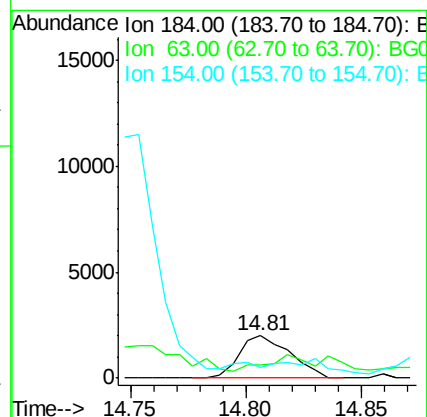
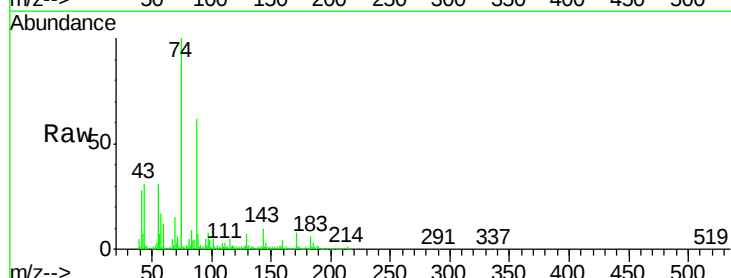
Tgt Ion:184 Resp: 3059

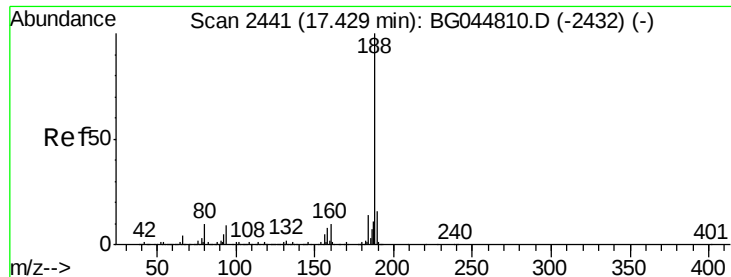
Ion Ratio Lower Upper

184 100

63 32.1 45.5 68.3#

154 26.0 49.1 73.7#





#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.43 min Scan# 2441

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

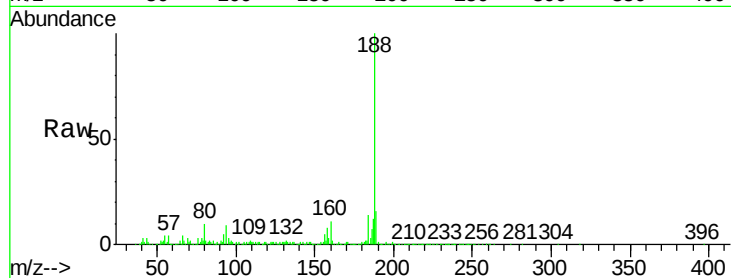
Tgt Ion:188 Resp: 596163

Ion Ratio Lower Upper

188 100

94 8.9 7.3 10.9

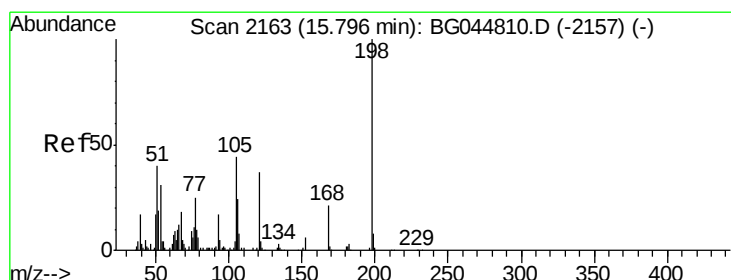
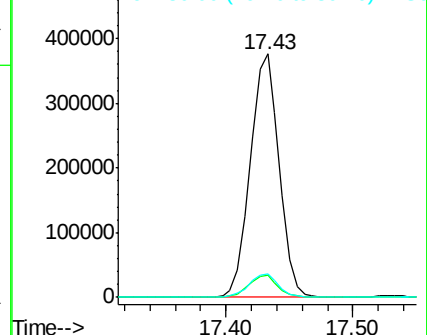
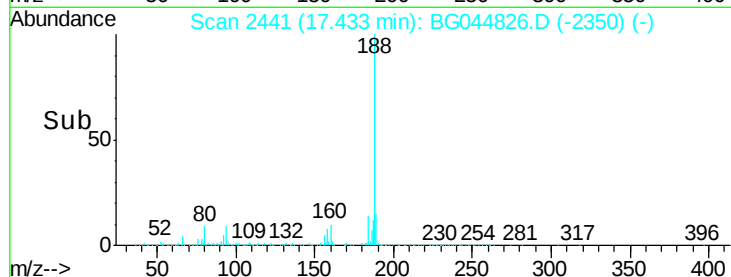
80 9.7 8.0 12.0



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: 7.78 ng

RT: 15.79 min Scan# 2161

Delta R.T. -0.01 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

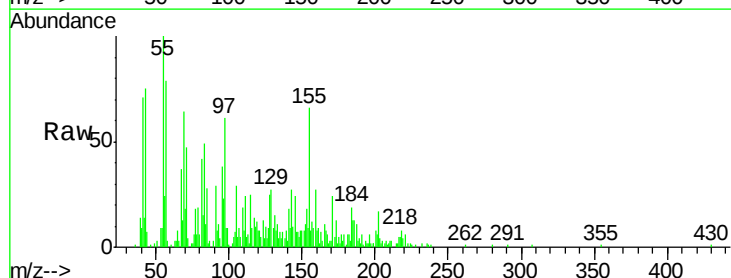
Tgt Ion:198 Resp: 158

Ion Ratio Lower Upper

198 100

51 201.7 21.1 61.1#

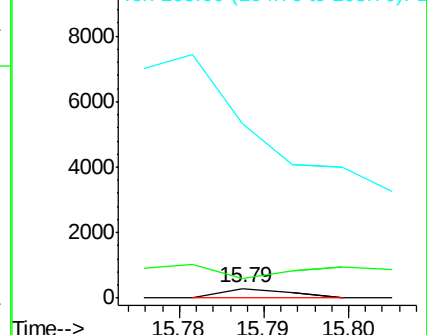
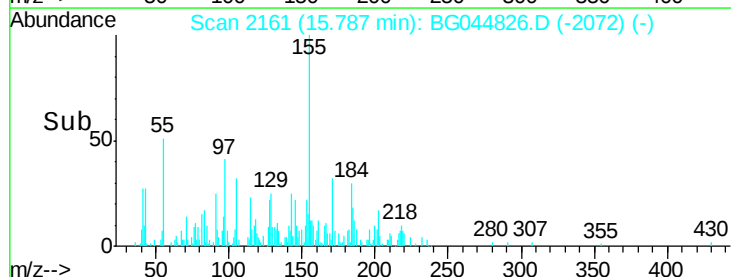
105 1812.6 24.5 64.5#

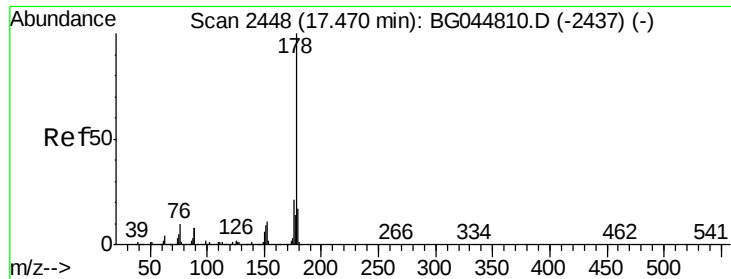


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

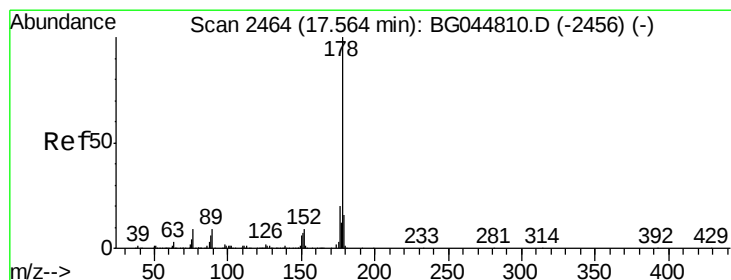
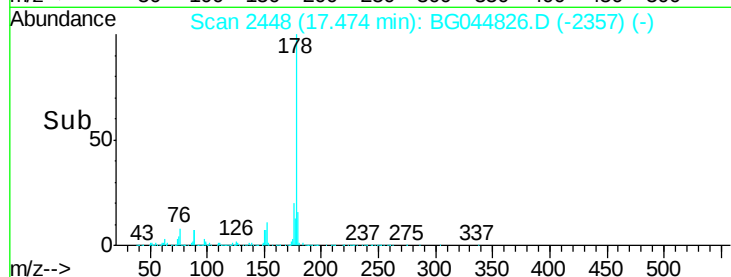
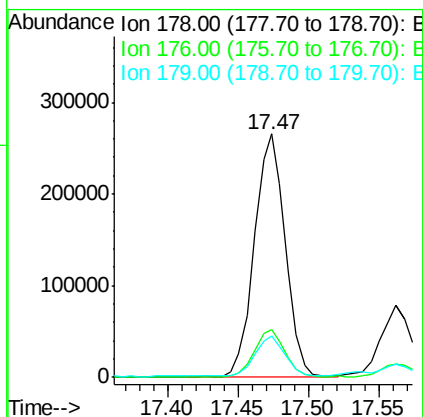
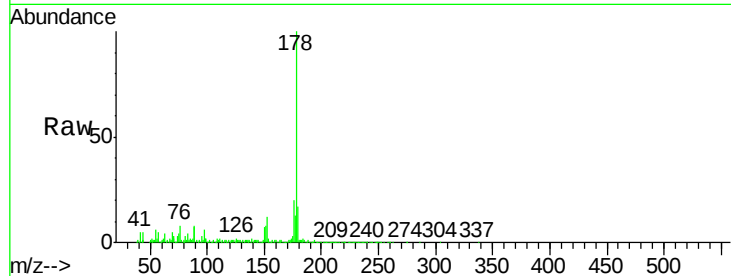




#71
Phenanthrene
Concen: 12.75 ng
RT: 17.47 min Scan# 2448
Delta R.T. 0.00 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

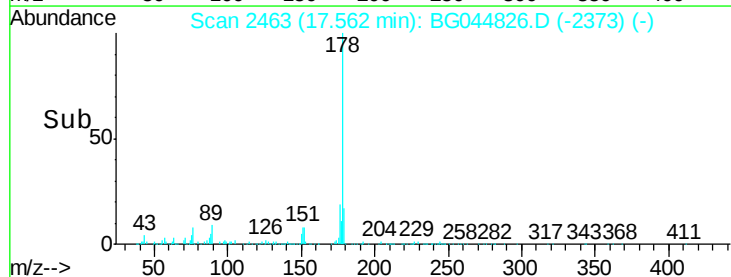
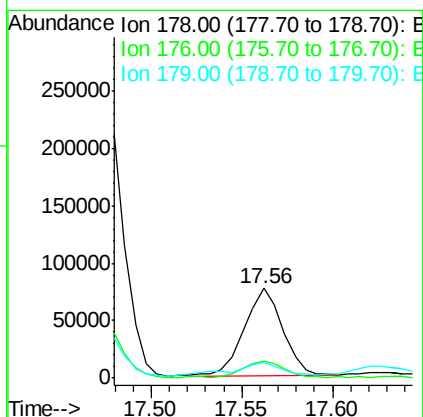
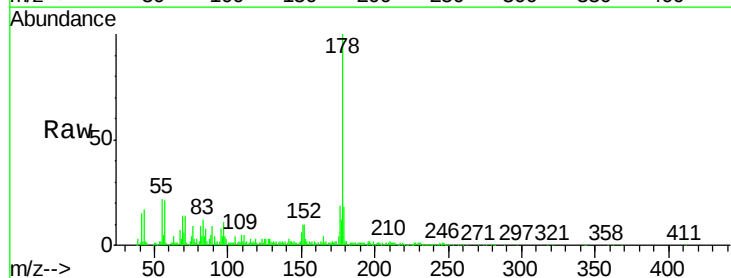
Instrument :
BNA_G
ClientSampleId :
SU-01-031220

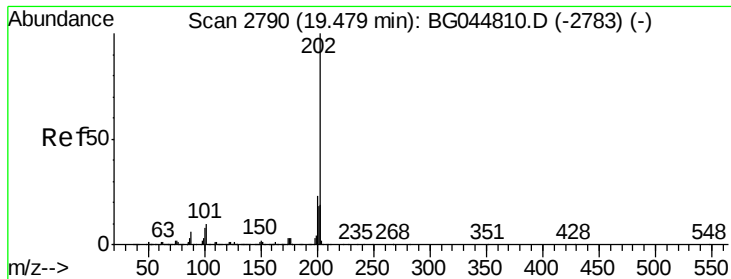
Tgt Ion:178 Resp: 406088
Ion Ratio Lower Upper
178 100
176 19.6 16.6 24.8
179 17.0 13.5 20.3



#72
Anthracene
Concen: 3.58 ng
RT: 17.56 min Scan# 2463
Delta R.T. -0.00 min
Lab File: BG044826.D
Acq: 16 Mar 2020 23:34

Tgt Ion:178 Resp: 112612
Ion Ratio Lower Upper
178 100
176 19.1 15.9 23.9
179 17.9 13.2 19.8





#75

Fluoranthene

Concen: 20.94 ng

RT: 19.48 min Scan# 2790

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

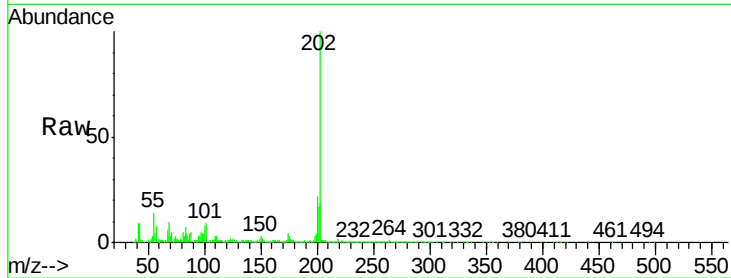
Tgt Ion:202 Resp: 794265

Ion Ratio Lower Upper

202 100

101 8.6 0.0 29.8

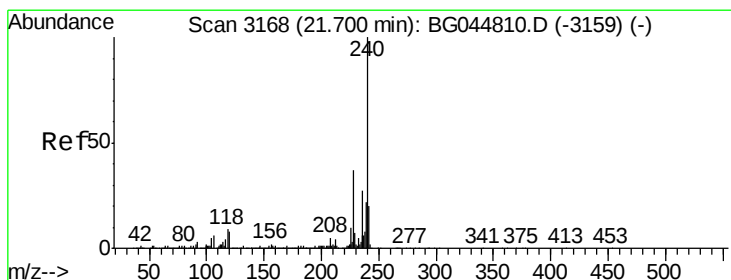
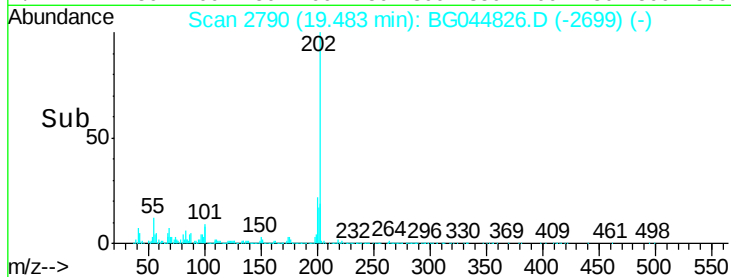
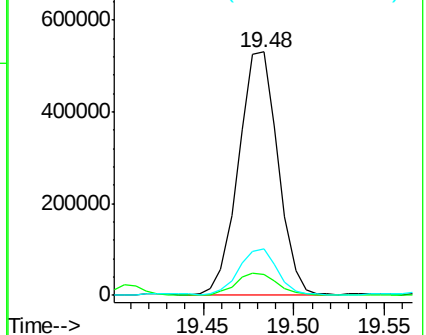
203 19.1 0.0 39.4



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: 20.00 ng

RT: 21.70 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

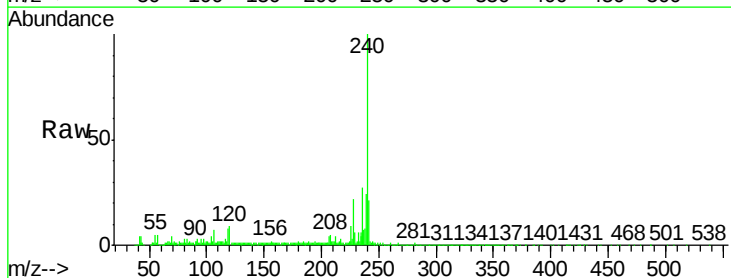
Tgt Ion:240 Resp: 513675

Ion Ratio Lower Upper

240 100

120 9.1 6.7 10.1

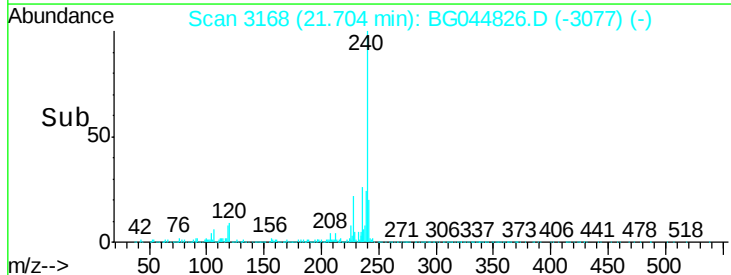
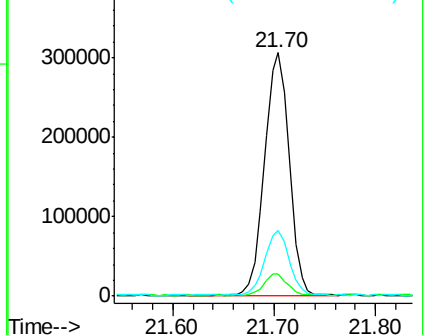
236 27.0 21.5 32.3

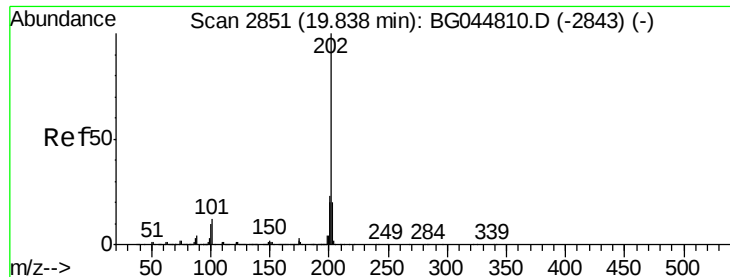


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 20.39 ng

RT: 19.84 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

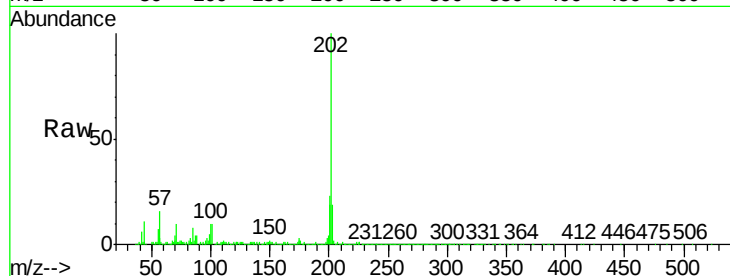
Tgt Ion:202 Resp: 768290

Ion Ratio Lower Upper

202 100

200 23.0 18.3 27.5

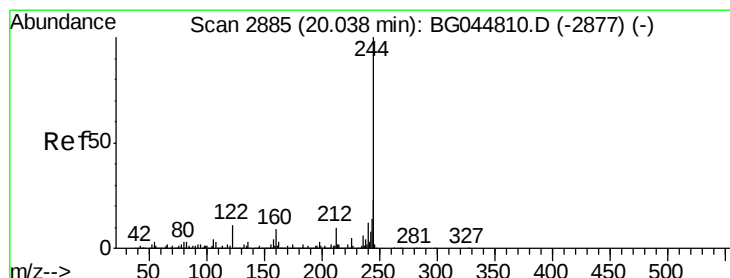
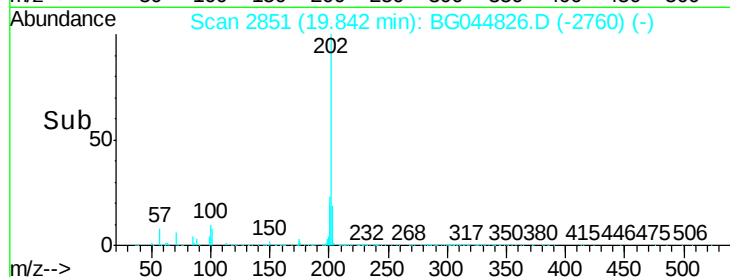
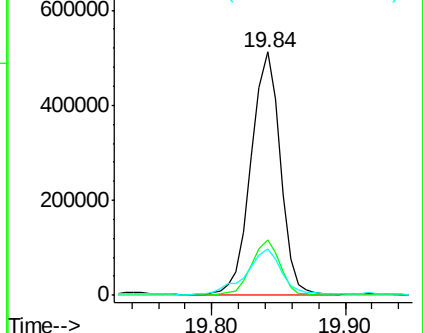
203 19.3 15.6 23.4



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: 33.22 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

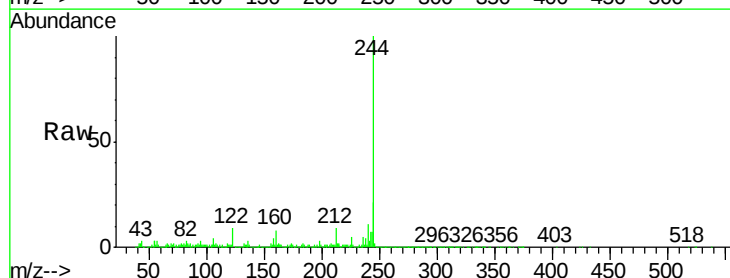
Tgt Ion:244 Resp: 912218

Ion Ratio Lower Upper

244 100

212 8.6 7.7 11.5

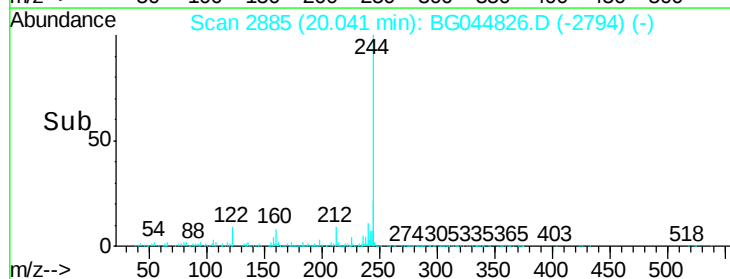
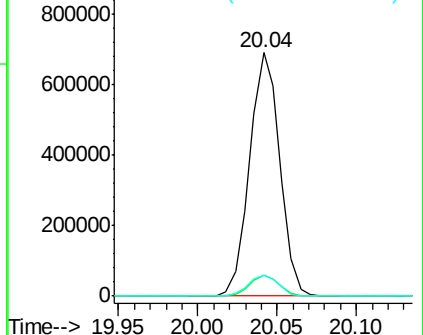
122 8.8 8.6 12.8

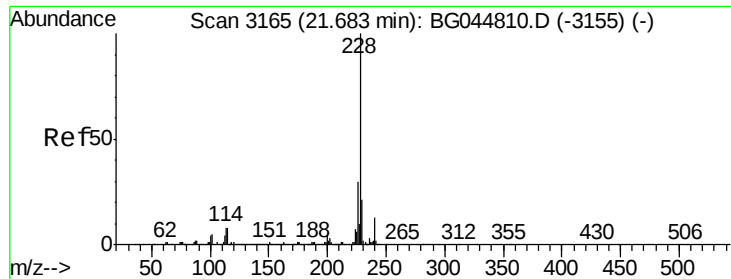


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 12.74 ng

RT: 21.69 min Scan# 3165

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

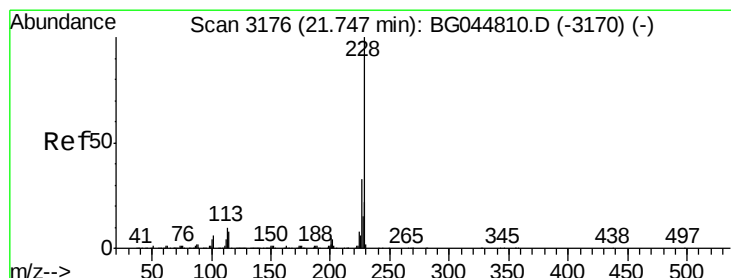
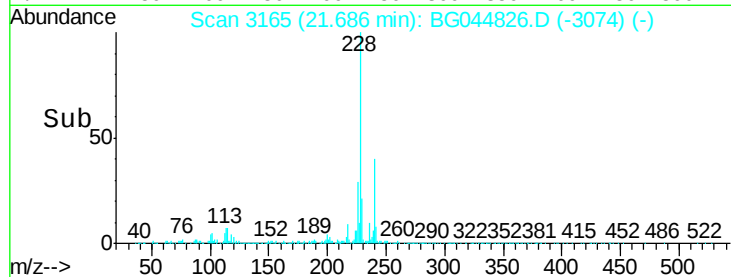
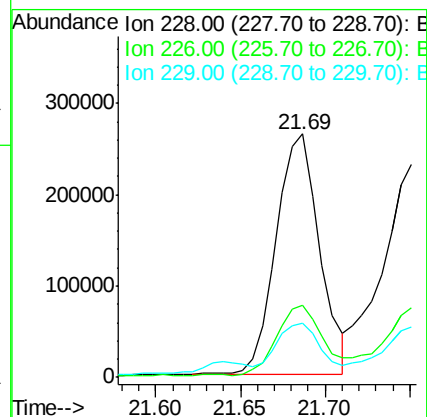
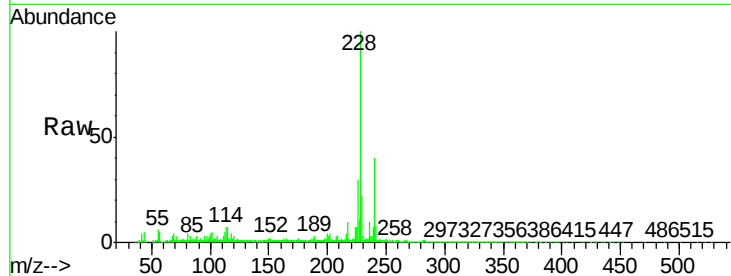
Tgt Ion:228 Resp: 471095

Ion Ratio Lower Upper

228 100

226 29.6 23.6 35.4

229 22.0 17.1 25.7



#83

Chrysene

Concen: 12.43 ng

RT: 21.75 min Scan# 3176

Delta R.T. 0.00 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

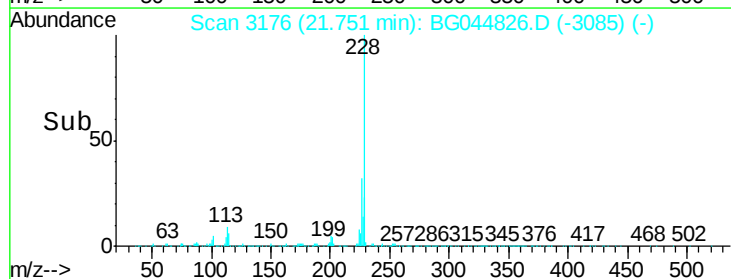
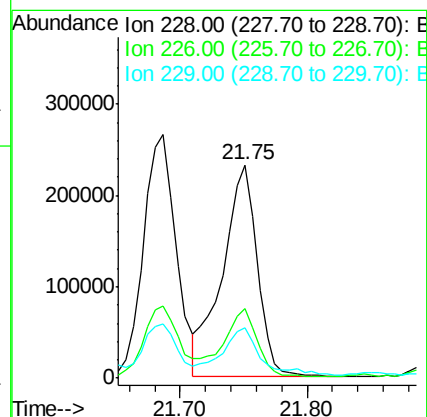
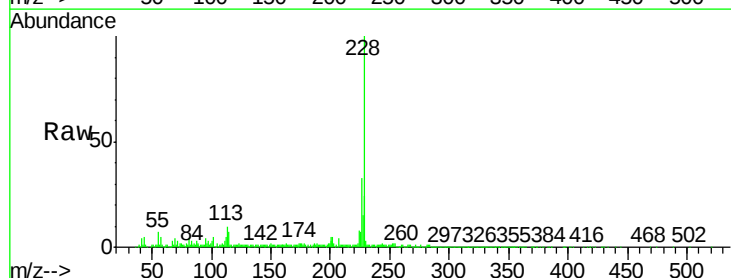
Tgt Ion:228 Resp: 439063

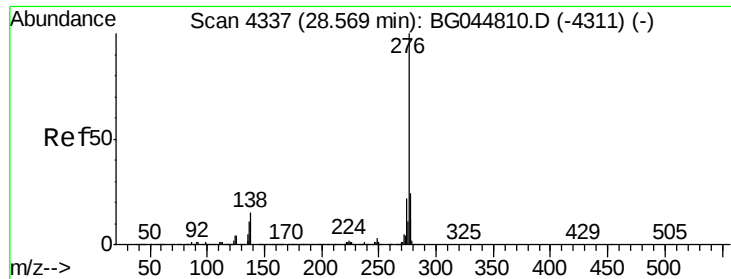
Ion Ratio Lower Upper

228 100

226 32.8 25.9 38.9

229 23.5 17.4 26.0

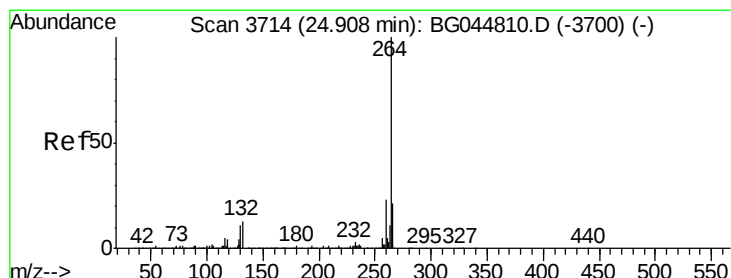
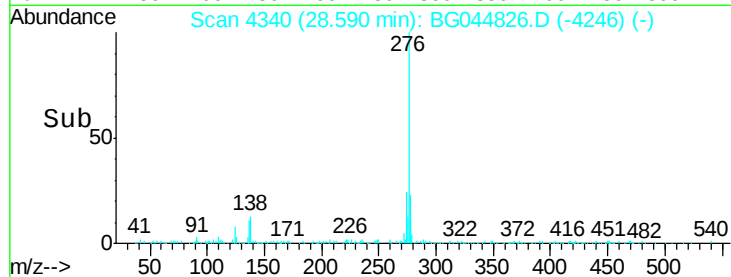
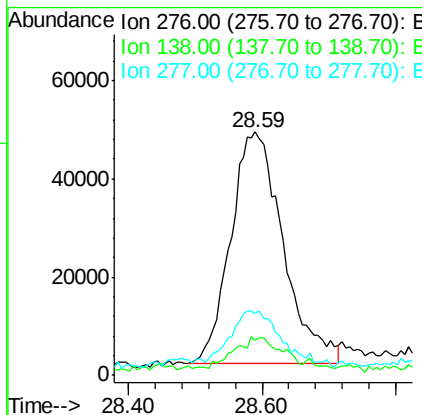
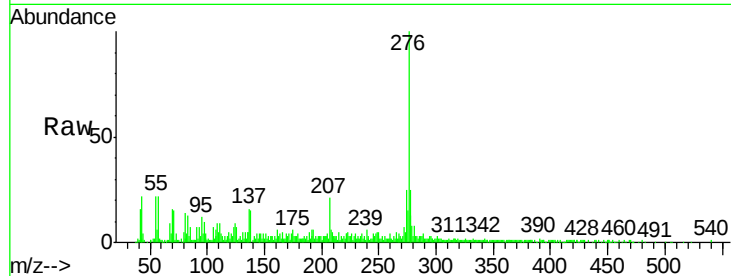




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.55 ng
 RT: 28.59 min Scan# 4340
 Delta R.T. 0.02 min
 Lab File: BG044826.D
 Acq: 16 Mar 2020 23:34

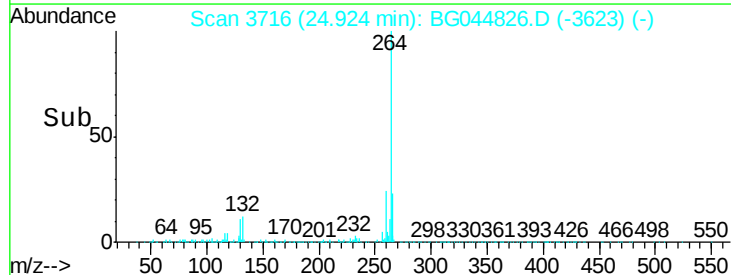
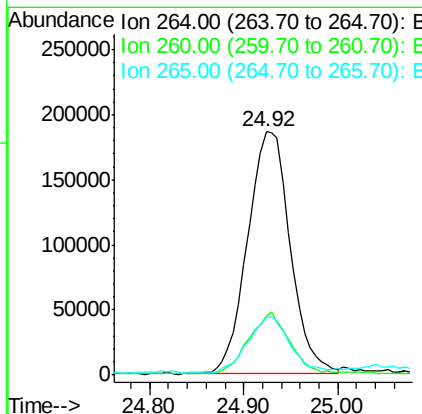
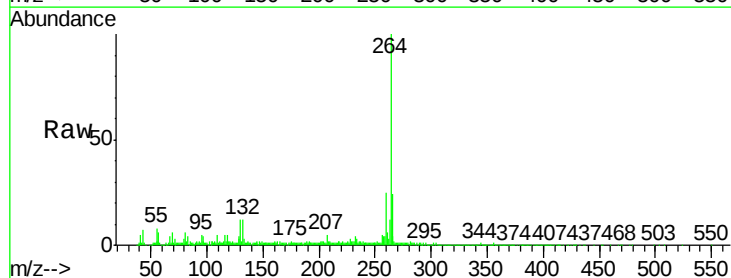
Instrument :
 BNA_G
 ClientSampleId :
 SU-01-031220

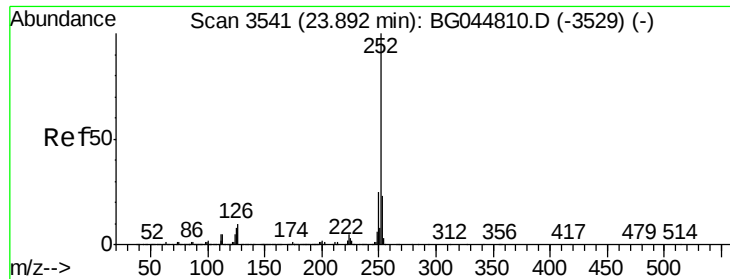
Tgt Ion: 276 Resp: 256897
 Ion Ratio Lower Upper
 276 100
 138 13.5 7.4 11.0#
 277 22.0 20.8 31.2



#87
 Perylene-d12
 Concen: 20.00 ng
 RT: 24.92 min Scan# 3716
 Delta R.T. 0.02 min
 Lab File: BG044826.D
 Acq: 16 Mar 2020 23:34

Tgt Ion: 264 Resp: 584962
 Ion Ratio Lower Upper
 264 100
 260 24.5 18.1 27.1
 265 23.9 17.1 25.7





#88

Benzo(b)fluoranthene

Concen: 15.48 ng

RT: 23.91 min Scan# 3543

Delta R.T. 0.02 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

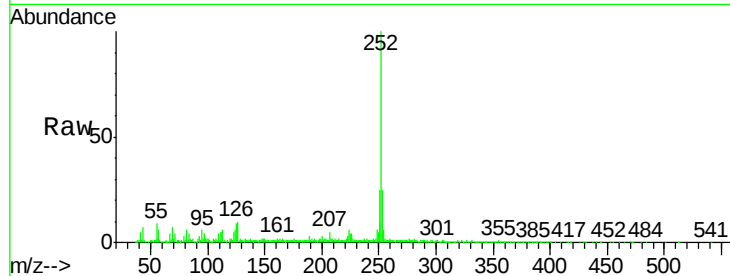
Tgt Ion:252 Resp: 597623

Ion Ratio Lower Upper

252 100

253 25.1 18.1 27.1

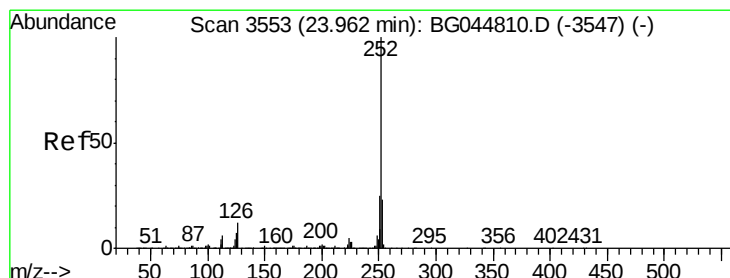
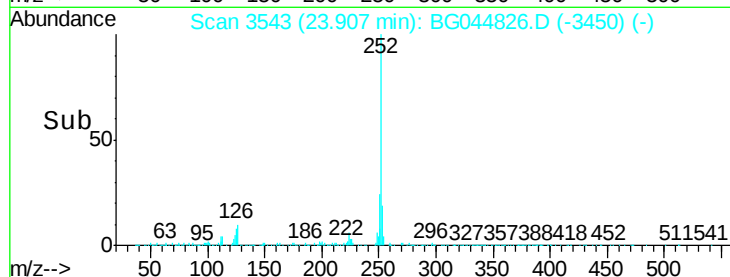
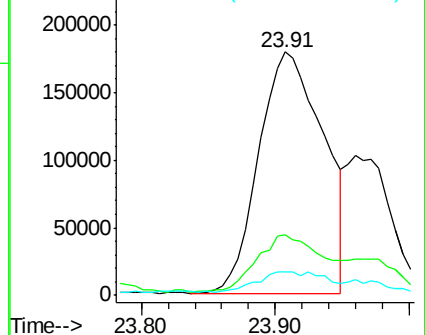
125 9.4 6.6 9.8



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: 16.35 ng

RT: 23.91 min Scan# 3543

Delta R.T. -0.06 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

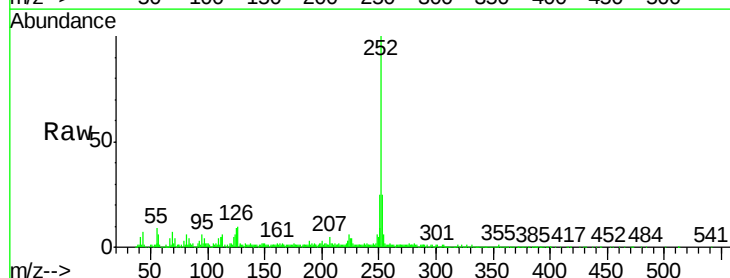
Tgt Ion:252 Resp: 597623

Ion Ratio Lower Upper

252 100

253 25.1 18.5 27.7

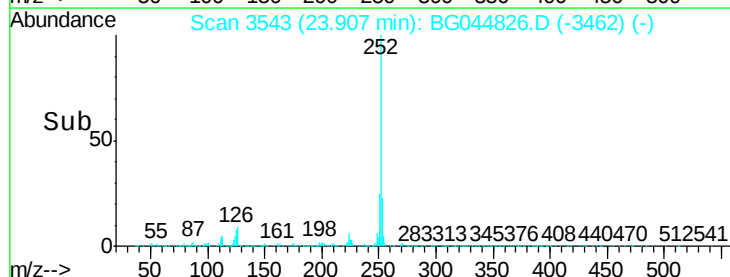
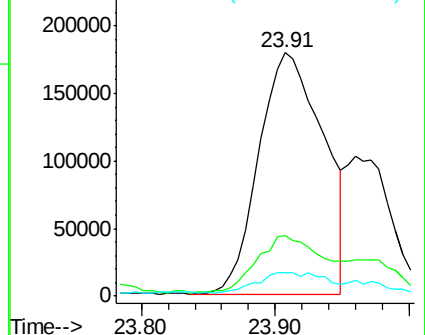
125 9.4 6.2 9.2#

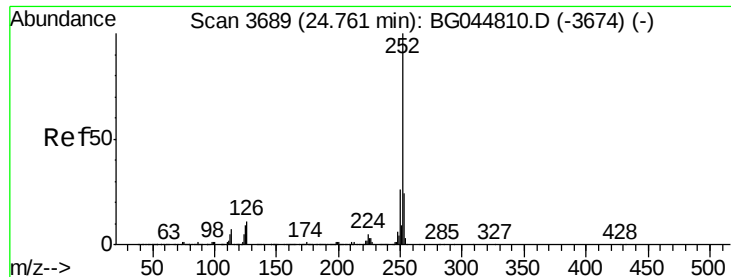


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 12.57 ng

RT: 24.78 min Scan# 3691

Delta R.T. 0.02 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

Instrument :

BNA_G

ClientSampleId :

SU-01-031220

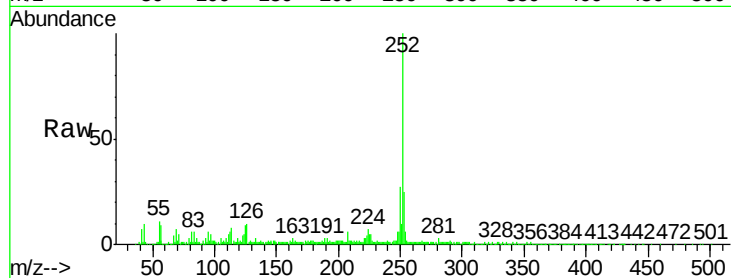
Tgt Ion:252 Resp: 454278

Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.0

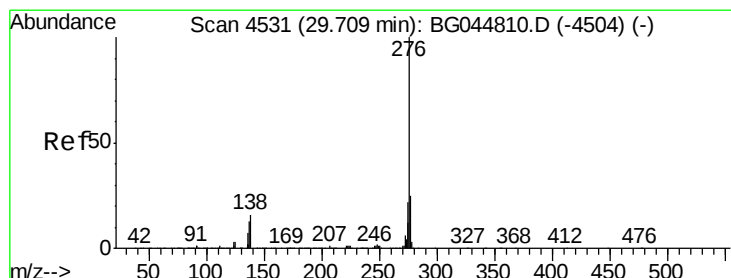
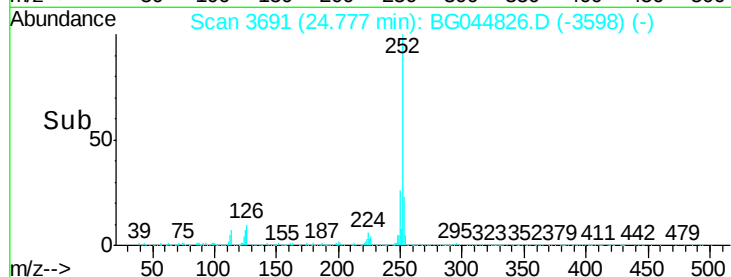
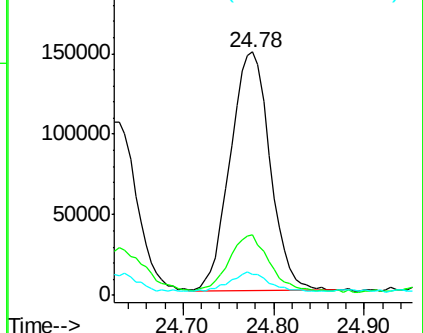
125 8.7 7.2 10.8



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: 6.63 ng

RT: 29.73 min Scan# 4534

Delta R.T. 0.02 min

Lab File: BG044826.D

Acq: 16 Mar 2020 23:34

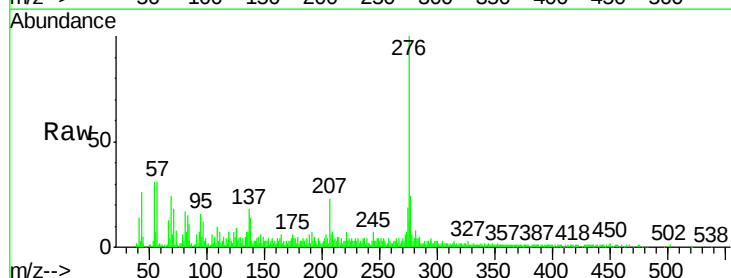
Tgt Ion:276 Resp: 238776

Ion Ratio Lower Upper

276 100

277 24.3 20.1 30.1

138 13.6 13.0 19.6



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

