

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041620\
 Data File : BG045021.D
 Acq On : 17 Apr 2020 00:49
 Operator : CG/JU
 Sample : L2130-13 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-18

Quant Time: Apr 17 04:41:26 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 15 17:57:00 2020
 Response via : Initial Calibration

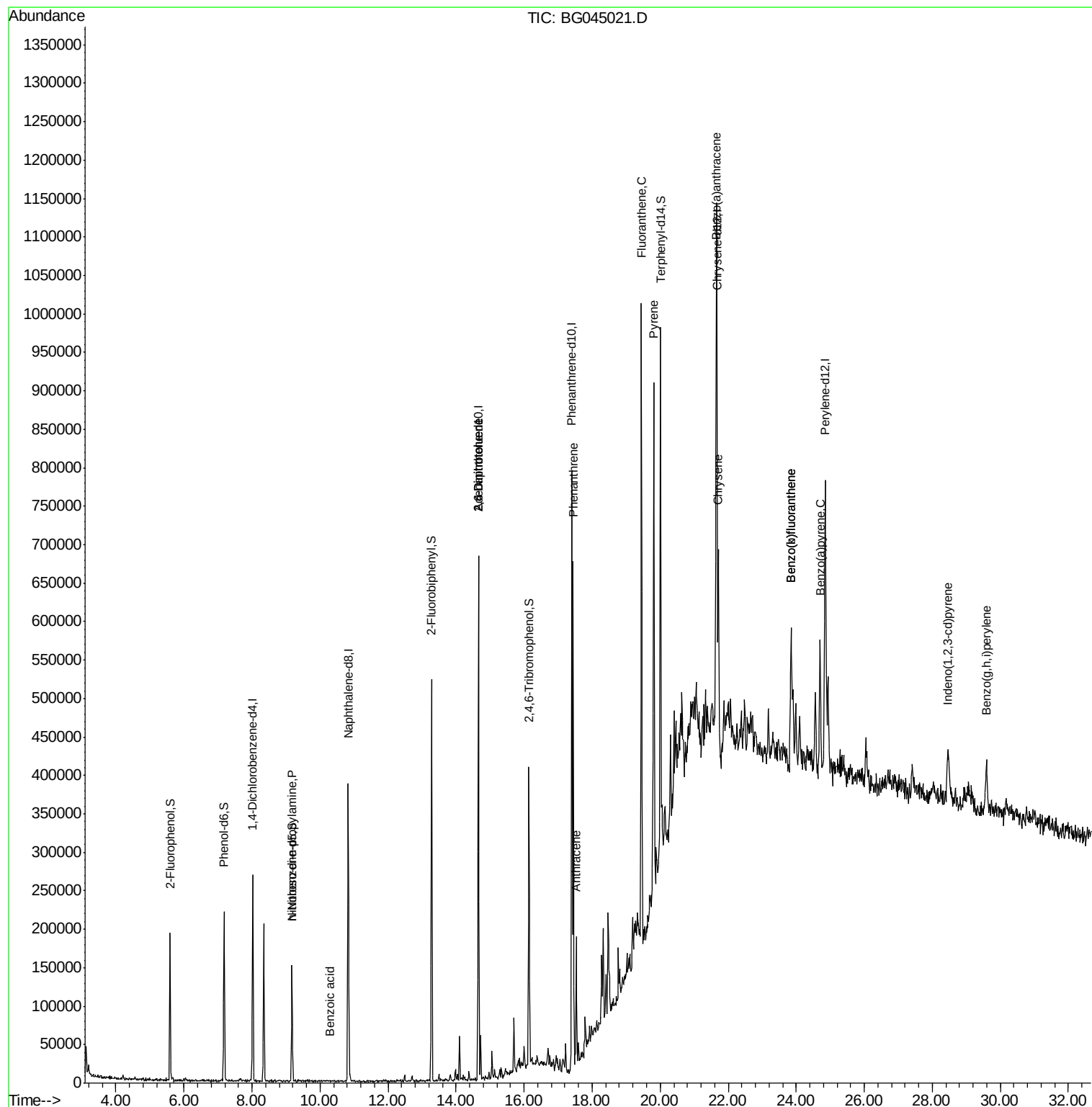
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	75675	20.00	ng	0.00
21) Naphthalene-d8	10.83	136	341031	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	252071	20.00	ng	0.00
64) Phenanthrene-d10	17.40	188	511332	20.00	ng	0.00
76) Chrysene-d12	21.66	240	370262	20.00	ng	0.00
87) Perylene-d12	24.85	264	417746	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	90516	19.75	ng	0.00
7) Phenol-d6	7.18	99	149848	22.00	ng	0.00
23) Nitrobenzene-d5	9.18	82	107663	14.40	ng	0.00
42) 2,4,6-Tribromophenol	16.15	330	73361	18.84	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	288200	16.76	ng	0.00
79) Terphenyl-d14	20.01	244	340308	20.03	ng	0.00
Target Compounds						
9) Benzaldehyde	7.17	77	761	Below Cal	#	61
19) n-Nitroso-di-n-propylamine	9.18	70	13898	2.886 ng	#	67
32) Benzoic acid	10.28	122	54	6.385 ng	#	1
51) 2,6-Dinitrotoluene	14.66	165	35319	7.693 ng	#	25
57) 2,4-Dinitrotoluene	14.66	165	35319	5.264 ng	#	23
69) Atrazine	17.00	200	57	Below Cal	#	35
71) Phenanthrene	17.45	178	413603	15.741 ng		99
72) Anthracene	17.53	178	108324	4.110 ng		99
74) Di-n-butylphthalate	18.36	149	1173	Below Cal	#	70
75) Fluoranthene	19.45	202	524944	12.547 ng		98
77) Benzydine	19.64	184	359	Below Cal	#	1
78) Pyrene	19.81	202	446852	17.506 ng		97
81) Benzo(a)anthracene	21.65	228	221798	9.242 ng		96
83) Chrysene	21.71	228	193491	8.392 ng		95
86) Indeno(1,2,3-cd)pyrene	28.46	276	122407	3.998 ng	#	76
88) Benzo(b)fluoranthene	23.85	252	247194	9.447 ng	#	96
89) Benzo(k)fluoranthene	23.85	252	247194	9.933 ng	#	95
90) Benzo(a)pyrene	24.71	252	196067	7.936 ng	#	98
92) Benzo(a,h,i)perylene	29.59	276	115043	4.609 ng		98

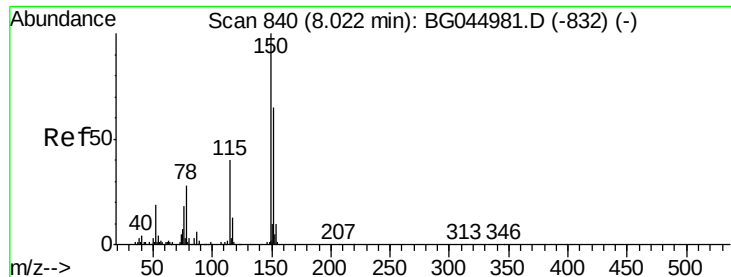
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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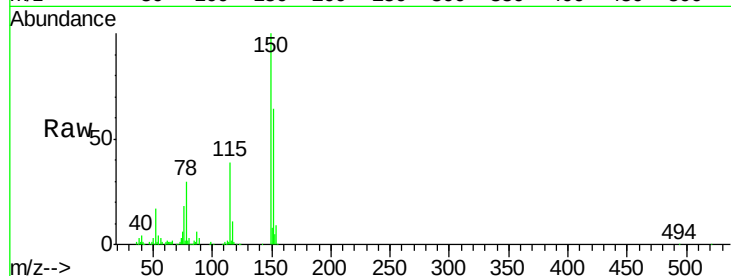


#1

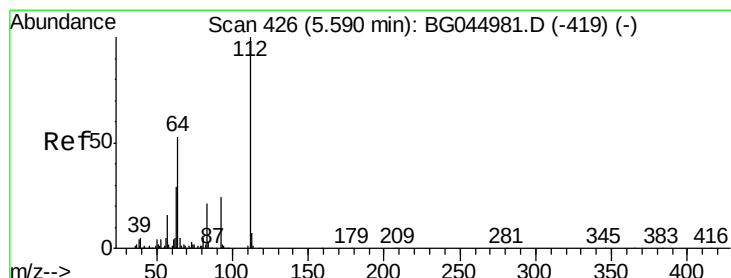
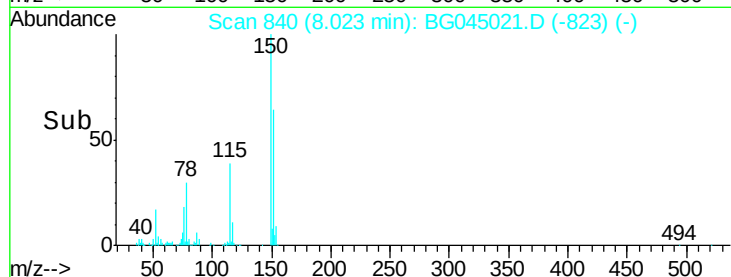
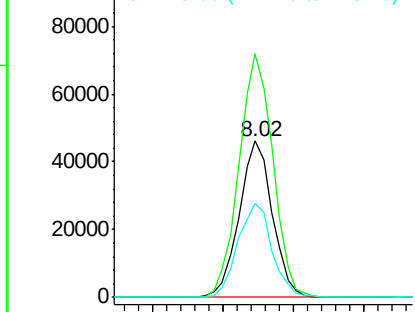
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.02 min Scan# 840
Delta R.T. 0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Instrument :
BNA_G
ClientSampleId :
TP-18

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	123.6	185.4
115	60.2	49.1	73.7



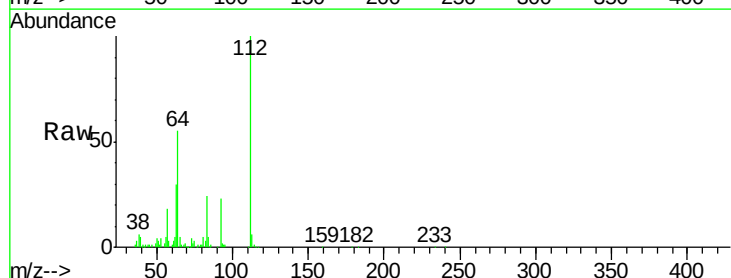
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



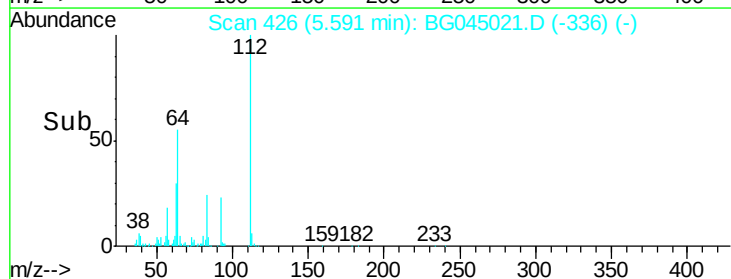
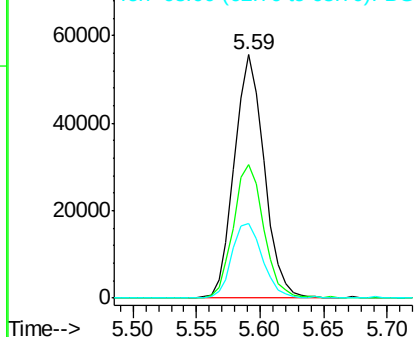
#5

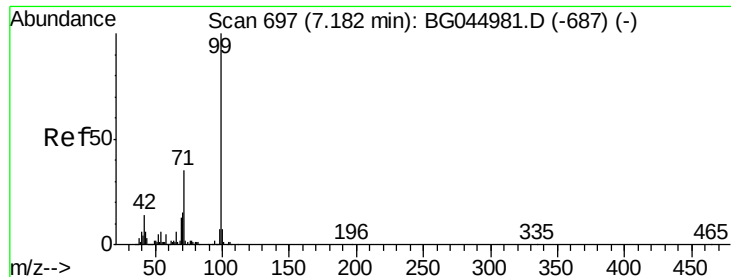
2-Fluorophenol
Concen: 19.747 ng
RT: 5.59 min Scan# 426
Delta R.T. 0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	42.4	63.6
63	30.5	23.1	34.7



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: 22.003 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampled :

TP-18

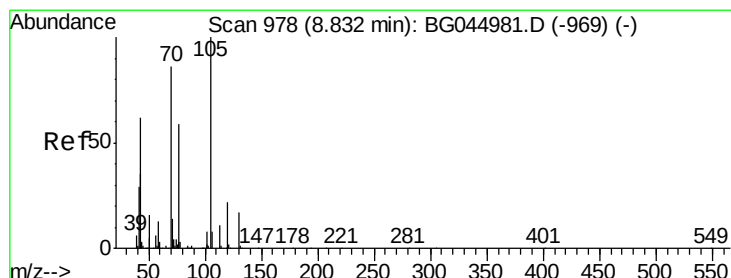
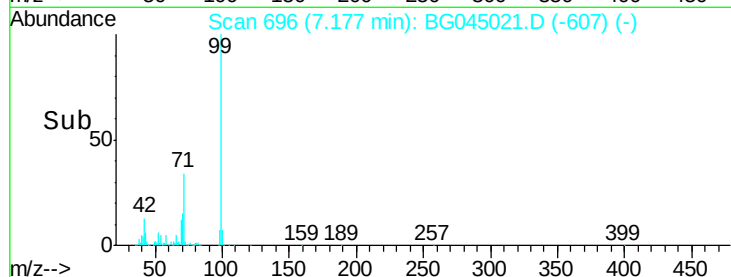
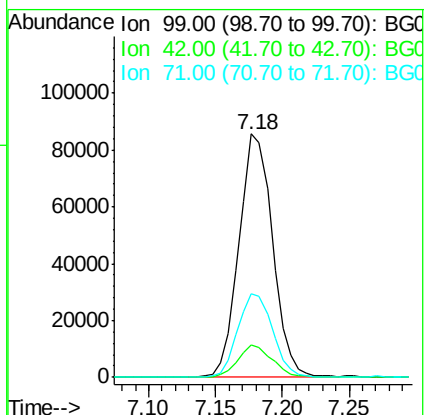
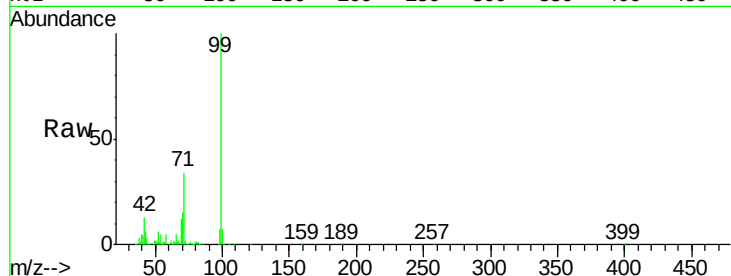
Tot Ion: 99 Resp: 149848

Ion Ratio Lower Upper

99 100

42 13.1 11.3 16.9

71 34.5 28.3 42.5



#19

n-Nitroso-di-n-propylamine

Concen: 2.886 ng

RT: 9.18 min Scan# 1037

Delta R.T. 0.35 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Tgt Ion: 70 Resp: 13898

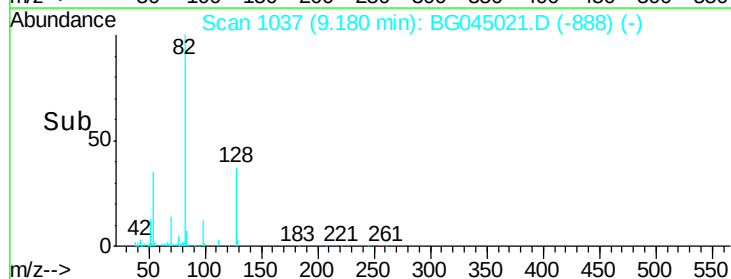
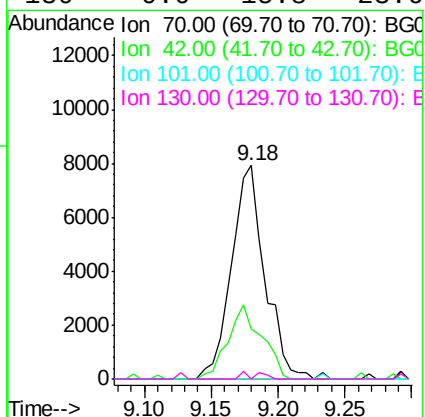
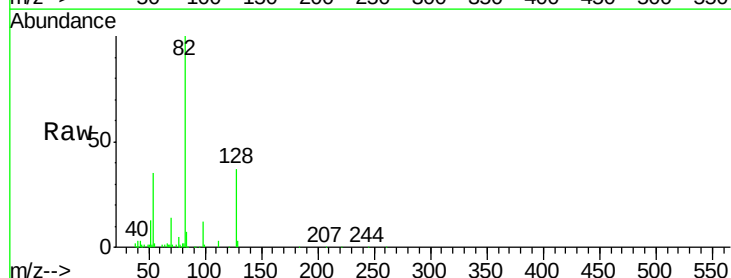
Ion Ratio Lower Upper

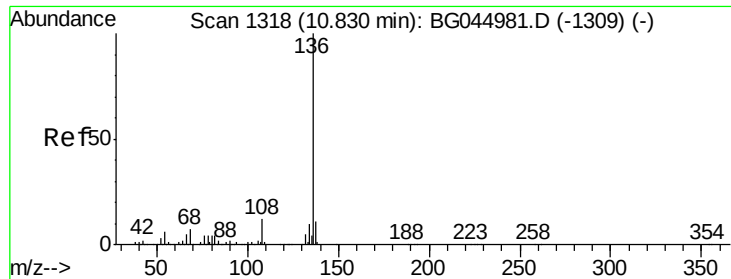
70 100

42 23.3 33.3 49.9#

101 0.0 7.8 11.8#

130 0.0 15.8 23.6#

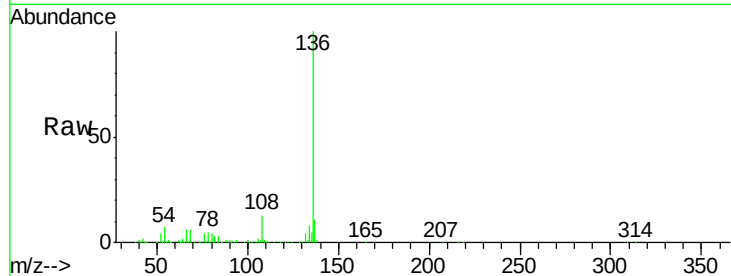




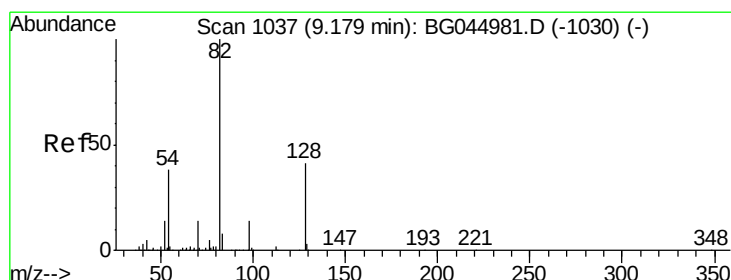
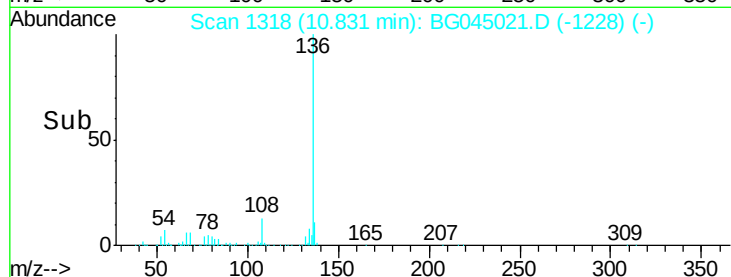
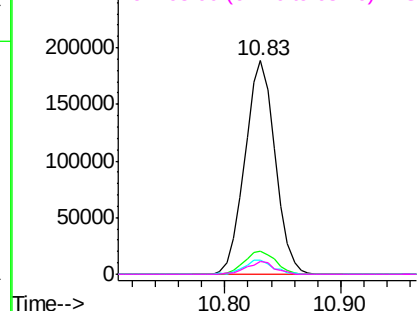
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.83 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Instrument :
BNA_G
ClientSampleId :
TP-18

Tot Ion:136	Resp:	341031
Ion Ratio	Lower	Upper
136 100		
137 10.6	8.6	13.0
54 6.8	4.8	7.2
68 5.8	5.2	7.8

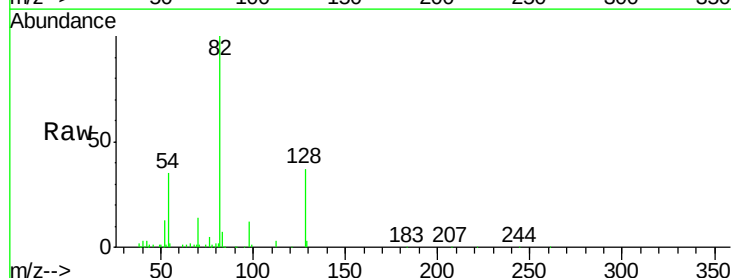


Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

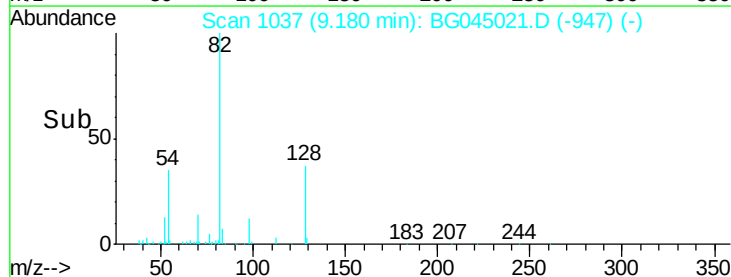
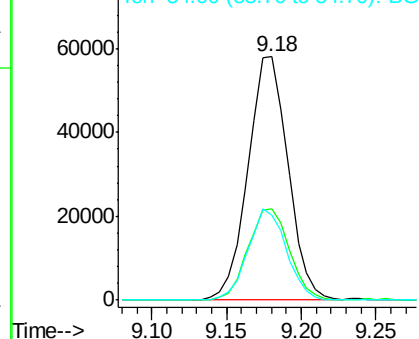


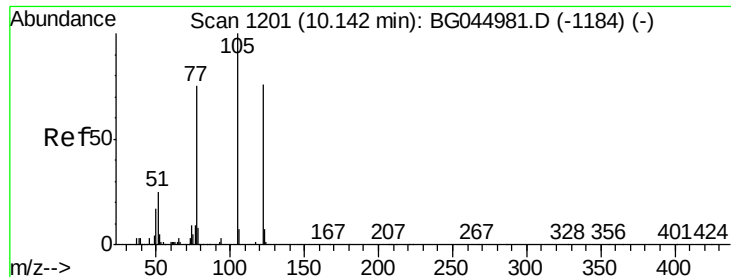
#23
Nitrobenzene-d5
Concen: 14.405 ng
RT: 9.18 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Tgt	Ion: 82	Resp:	107663
Ion	Ratio	Lower	Upper
82	100		
128	37.5	33.0	49.4
54	34.8	30.4	45.6



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

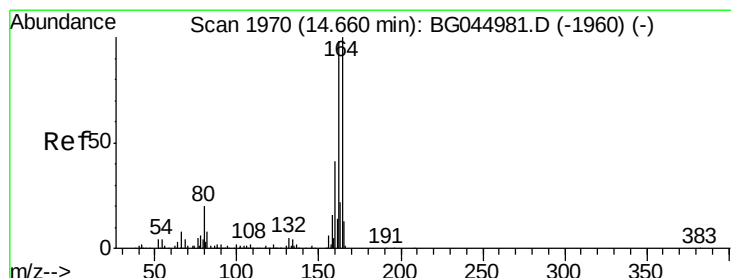
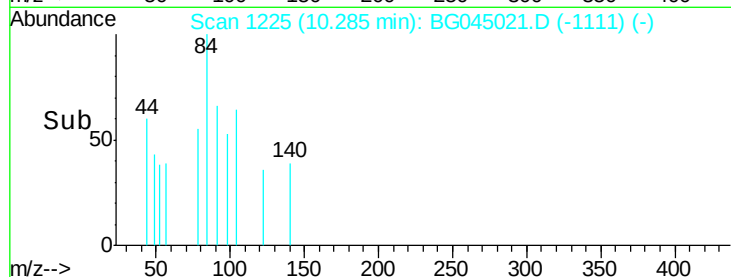
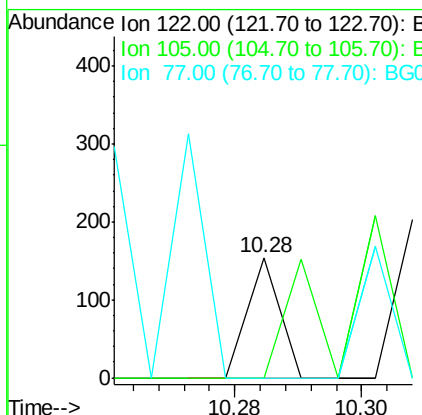
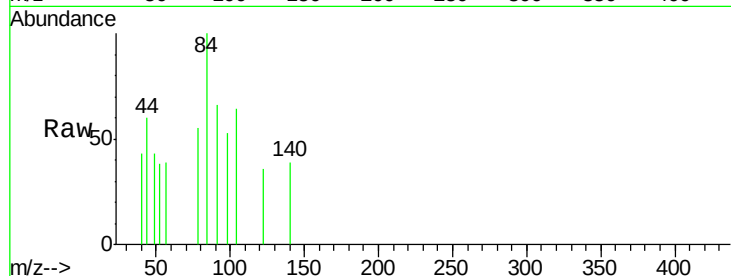




#32
Benzoic acid
Concen: 6.385 ng
RT: 10.28 min Scan# 1225
Delta R.T. 0.14 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

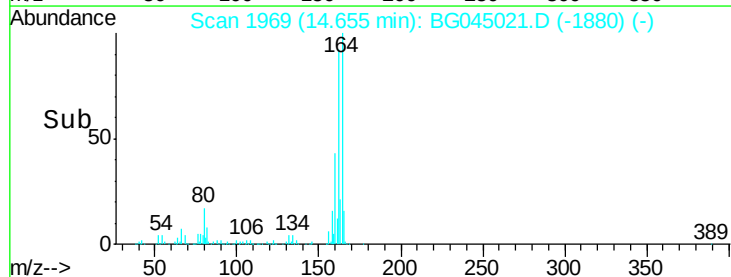
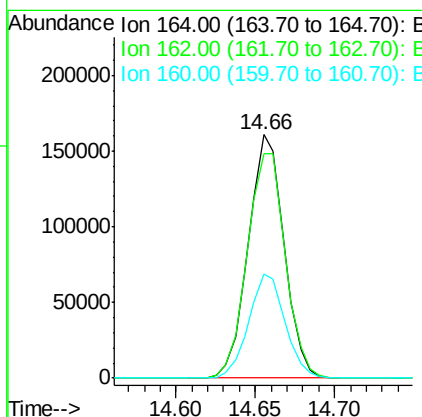
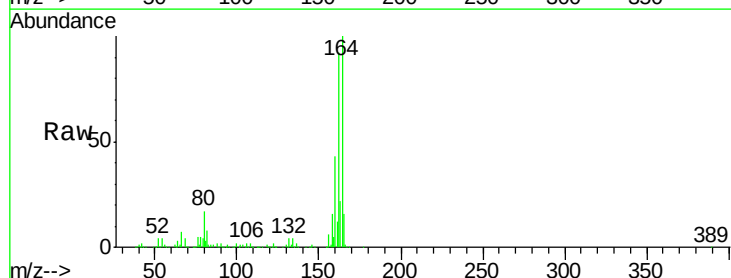
Instrument :
BNA_G
ClientSampled :
TP-18

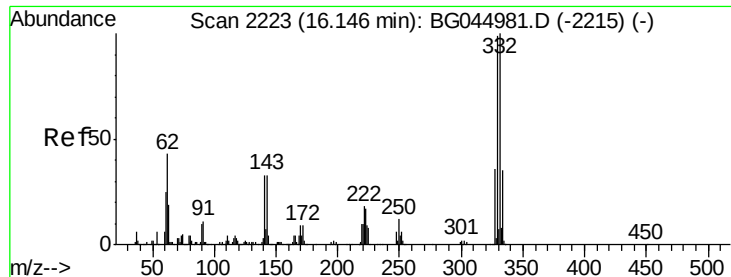
Tot Ion:122 Resp: 54
Ion Ratio Lower Upper
122 100
105 0.0 108.4 148.4#
77 0.0 78.8 118.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Tgt Ion:164 Resp: 252071
Ion Ratio Lower Upper
164 100
162 92.2 78.7 118.1
160 42.6 32.8 49.2

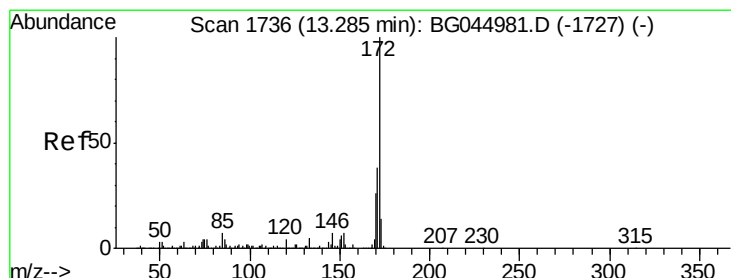
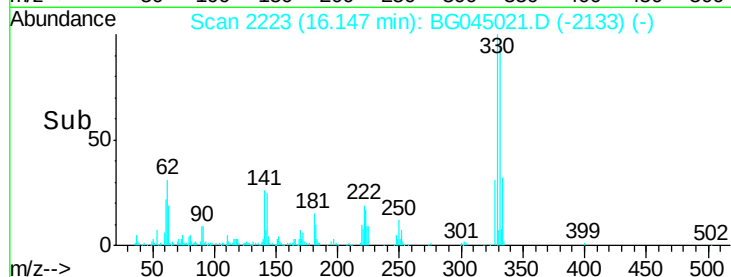
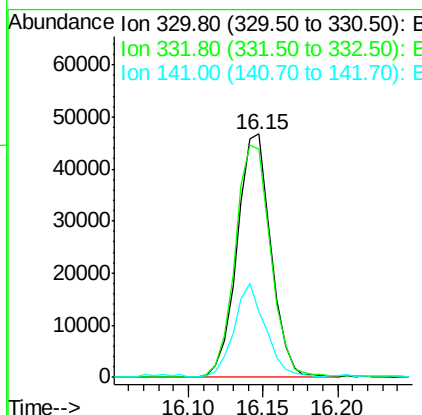
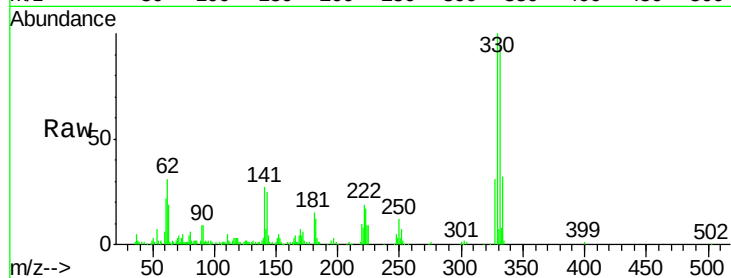




#42
 2,4,6-Tribromophenol
 Concen: 18.839 ng
 RT: 16.15 min Scan# 2223
 Delta R.T. 0.00 min
 Lab File: BG045021.D
 Acq: 17 Apr 2020 00:49

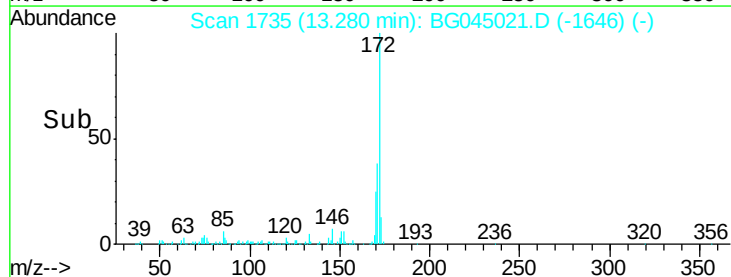
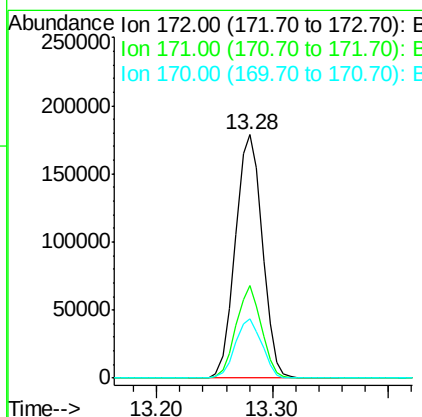
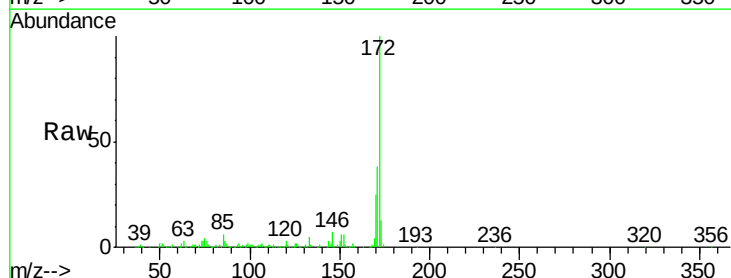
Instrument :
 BNA_G
 ClientSampleId :
 TP-18

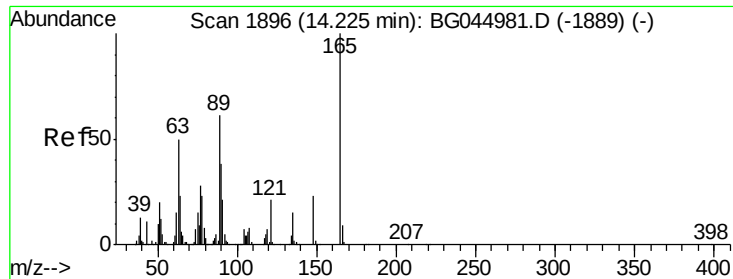
Tot Ion:330 Resp: 73361
 Ion Ratio Lower Upper
 330 100
 332 100.5 79.1 118.7
 141 35.9 27.1 40.7



#45
 2-Fluorobiphenyl
 Concen: 16.765 ng
 RT: 13.28 min Scan# 1735
 Delta R.T. -0.00 min
 Lab File: BG045021.D
 Acq: 17 Apr 2020 00:49

Tgt Ion:172 Resp: 288200
 Ion Ratio Lower Upper
 172 100
 171 38.0 30.6 46.0
 170 24.5 20.5 30.7





#51

2,6-Dinitrotoluene

Concen: 7.693 ng

RT: 14.66 min Scan# 1969

Delta R.T. 0.43 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

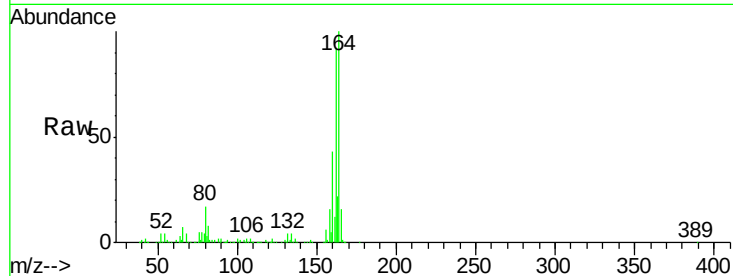
Tot Ion:165 Resp: 35319

Ion Ratio Lower Upper

165 100

63 0.9 40.4 60.6#

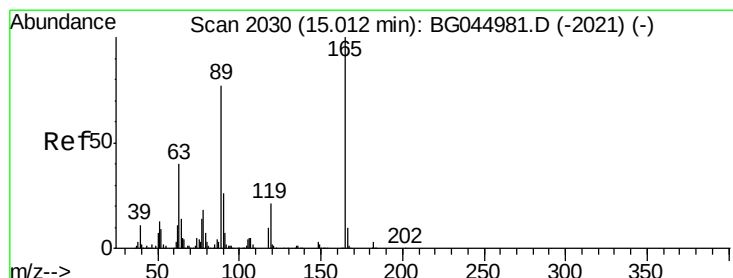
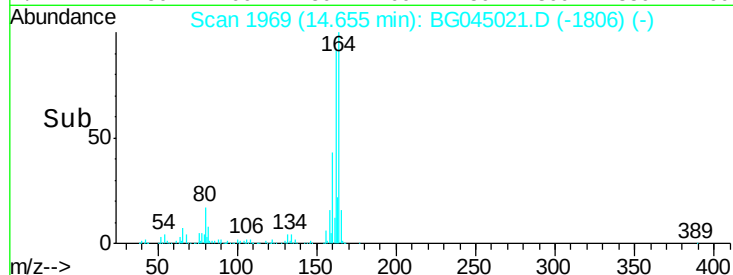
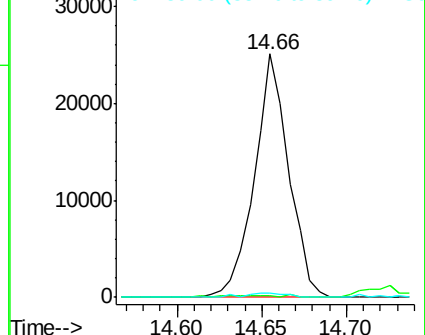
89 2.0 49.1 73.7#



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



#57

2,4-Dinitrotoluene

Concen: 5.264 ng

RT: 14.66 min Scan# 1969

Delta R.T. -0.36 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Tgt Ion:165 Resp: 35319

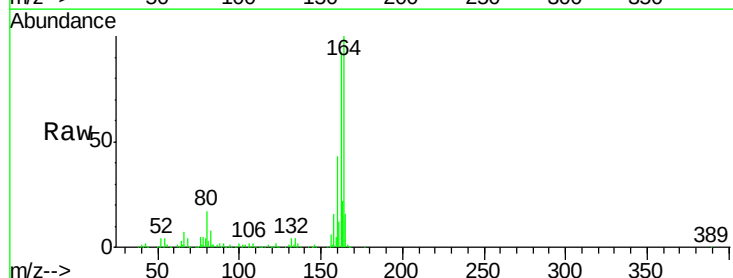
Ion Ratio Lower Upper

165 100

63 0.9 32.2 48.2#

89 2.0 61.7 92.5#

182 0.0 2.0 3.0#

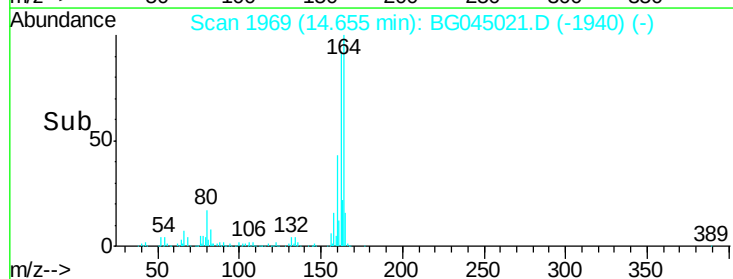
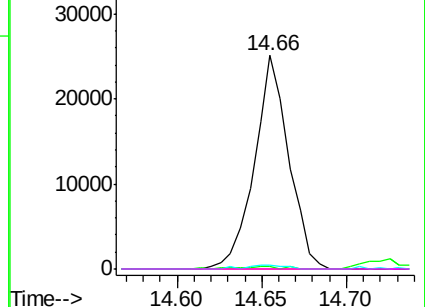


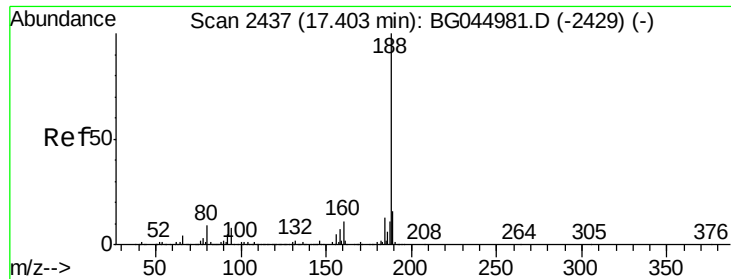
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2436

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

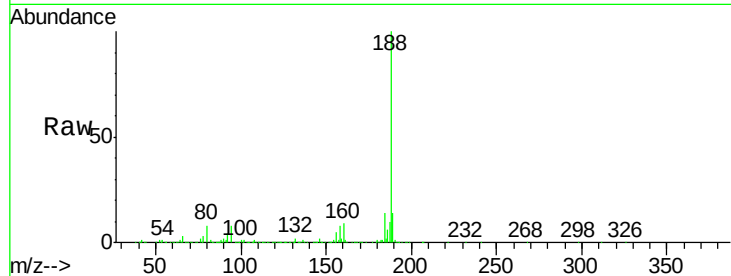
Tot Ion:188 Resp: 511332

Ion Ratio Lower Upper

188 100

94 8.3 6.2 9.4

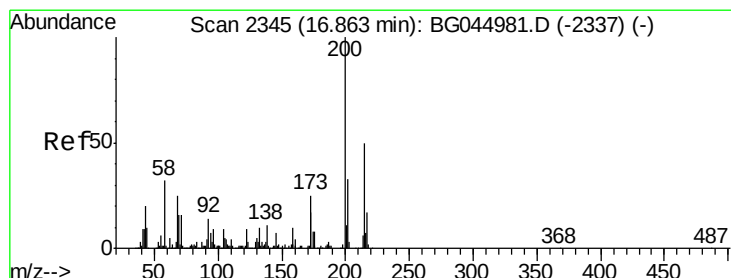
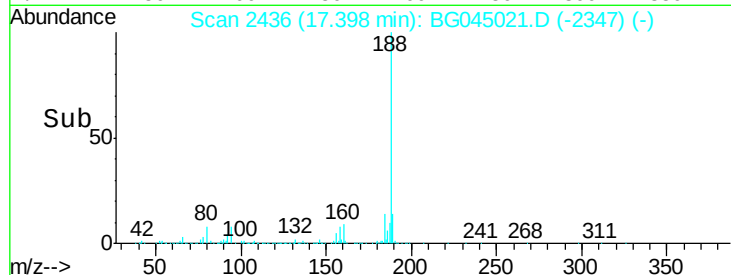
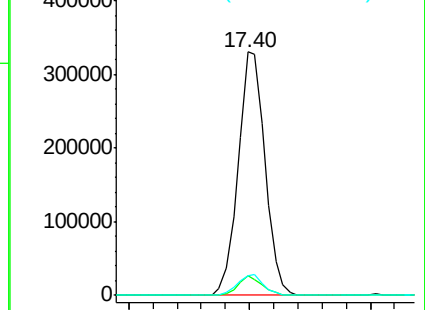
80 8.1 7.0 10.6



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



#69

Atrazine

Concen: Below Cal

RT: 17.00 min Scan# 2369

Delta R.T. 0.14 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

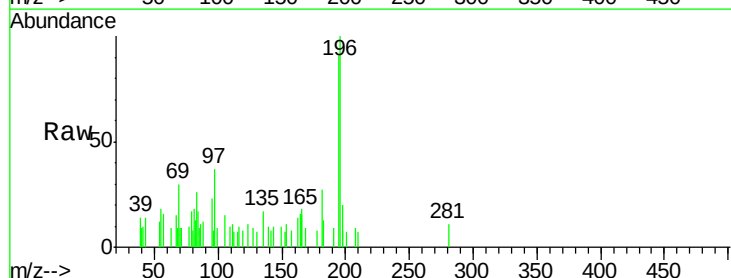
Tgt Ion:200 Resp: 57

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

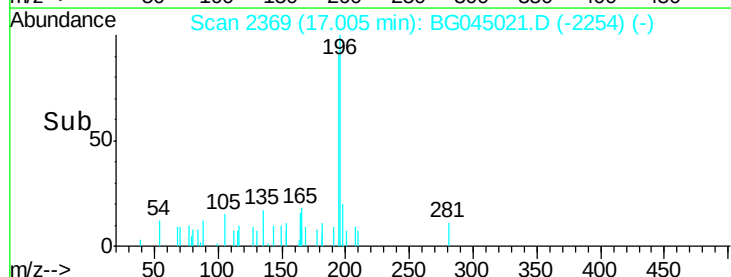
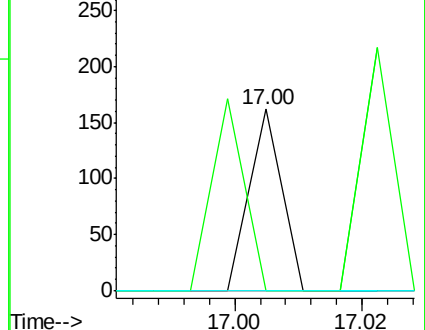
215 0.0 30.0 70.0#

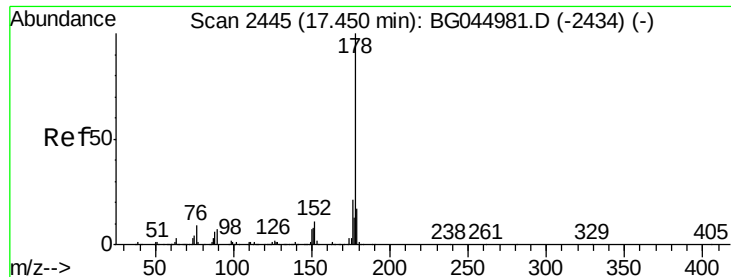


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#71

Phenanthrene

Concen: 15.741 ng

RT: 17.45 min Scan# 2444

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

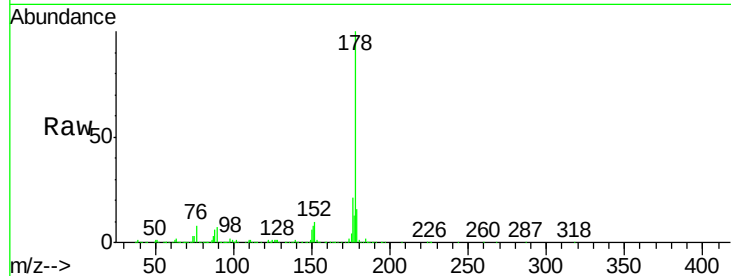
Tot Ion:178 Resp: 413603

Ion Ratio Lower Upper

178 100

176 20.8 16.8 25.2

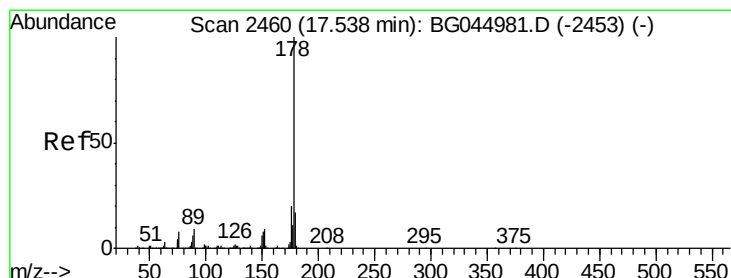
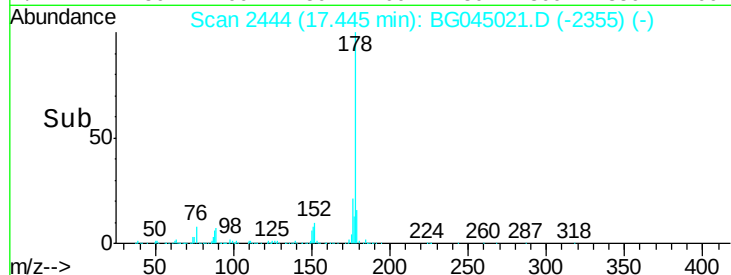
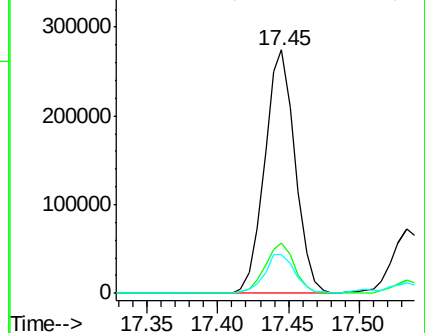
179 15.7 13.2 19.8



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



#72

Anthracene

Concen: 4.110 ng

RT: 17.53 min Scan# 2459

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

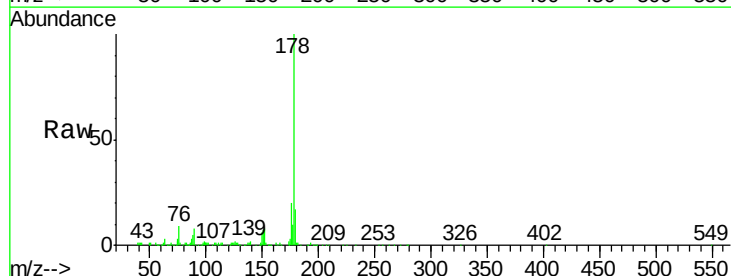
Tgt Ion:178 Resp: 108324

Ion Ratio Lower Upper

178 100

176 19.7 16.0 24.0

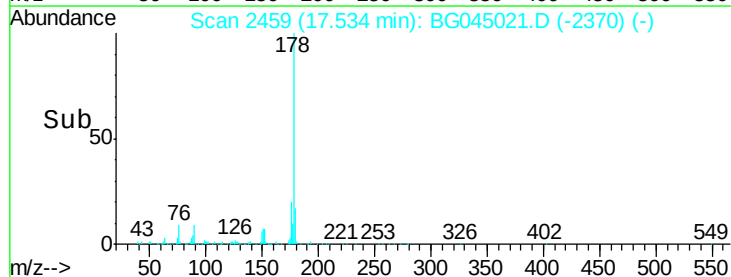
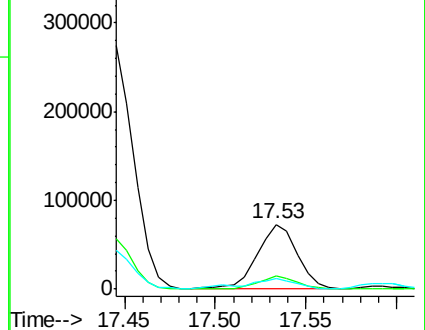
179 17.1 13.6 20.4

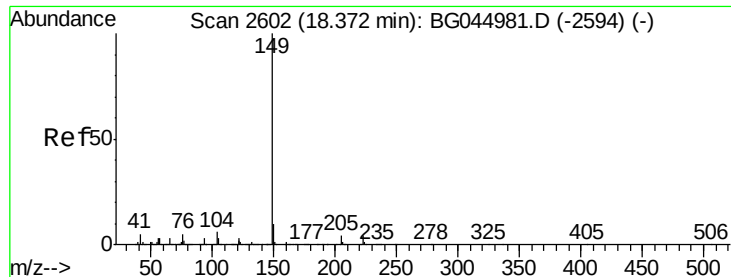


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.36 min Scan# 2600

Delta R.T. -0.01 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampled :

TP-18

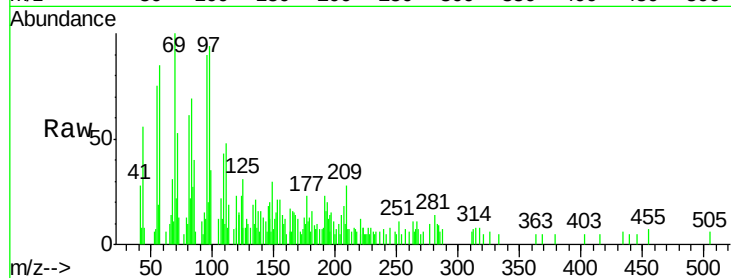
Tot Ion:149 Resp: 1173

Ion Ratio Lower Upper

149 100

150 24.1 8.2 12.2#

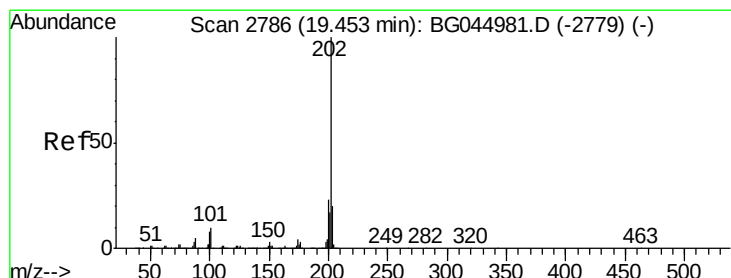
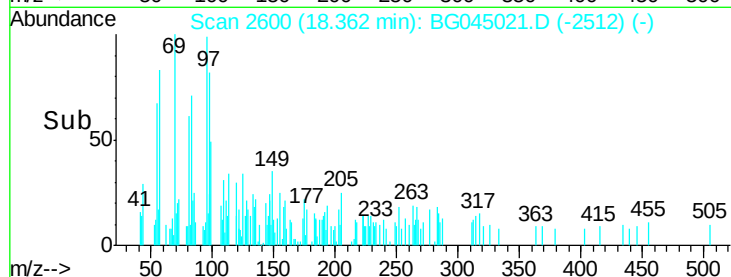
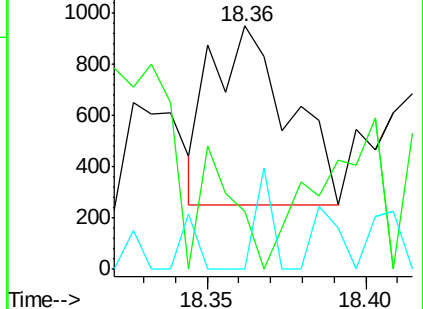
104 0.0 4.8 7.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: 12.547 ng

RT: 19.45 min Scan# 2785

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

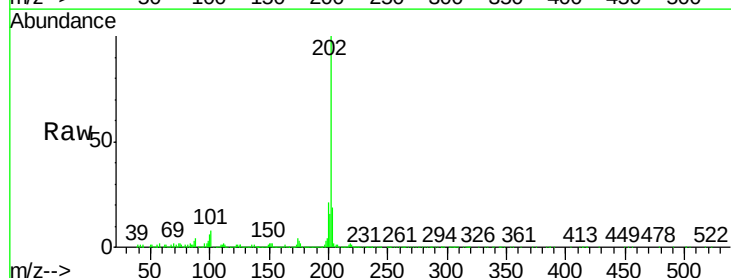
Tgt Ion:202 Resp: 524944

Ion Ratio Lower Upper

202 100

101 8.3 0.0 29.6

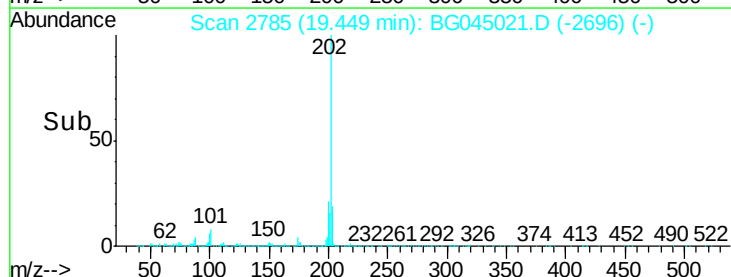
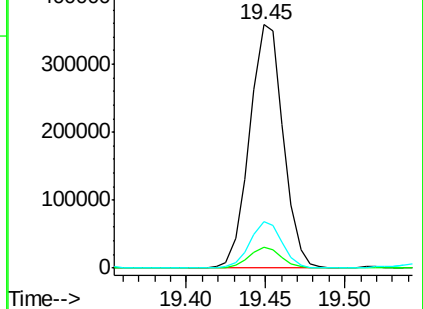
203 19.1 0.0 39.7

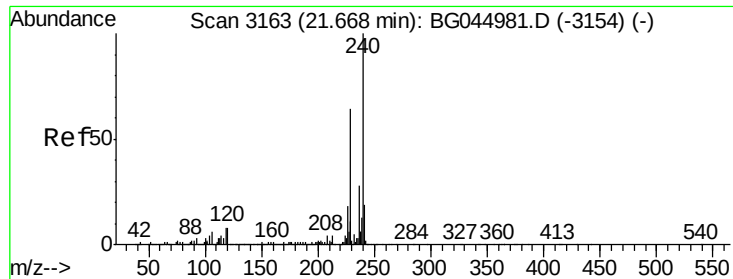


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

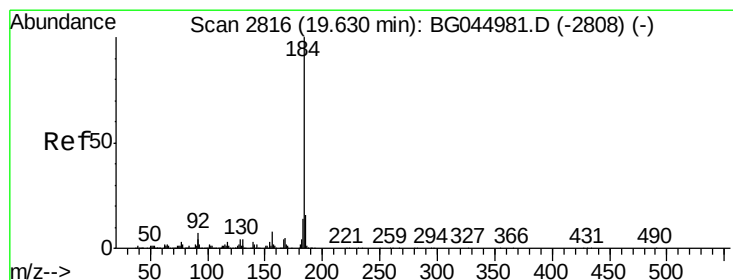
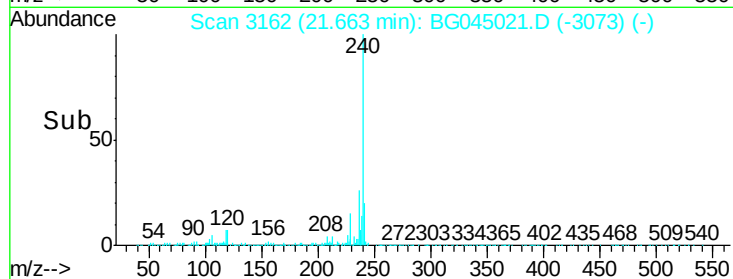
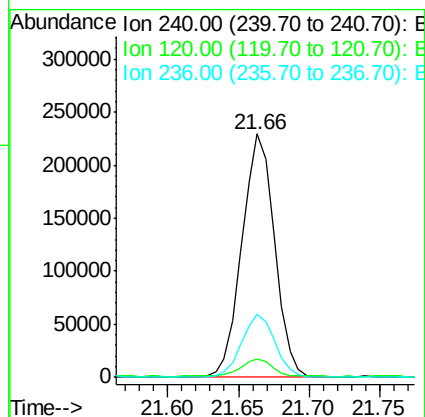
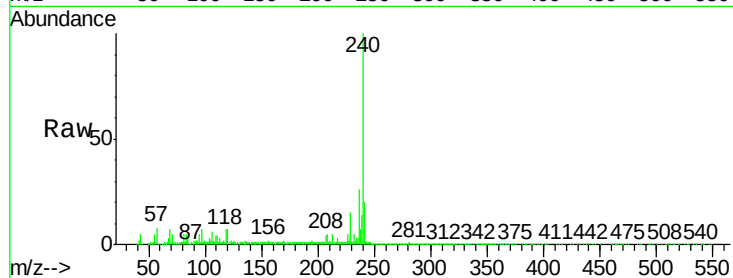




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.66 min Scan# 3162
Delta R.T. -0.00 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

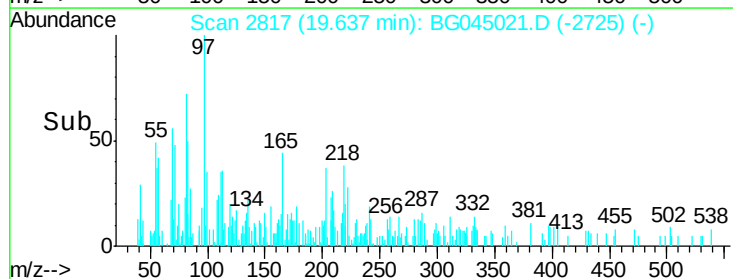
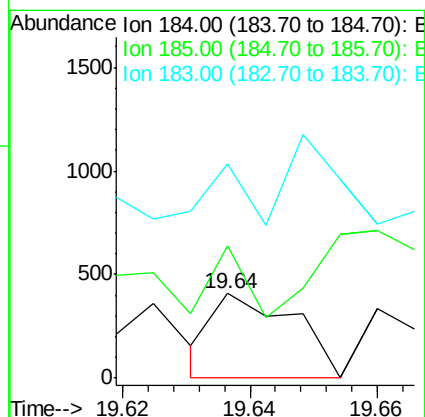
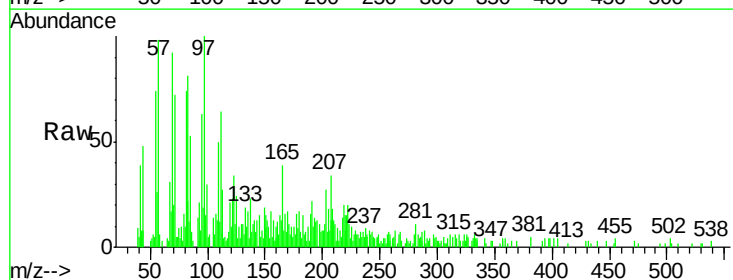
Instrument :
BNA_G
ClientSampleId :
TP-18

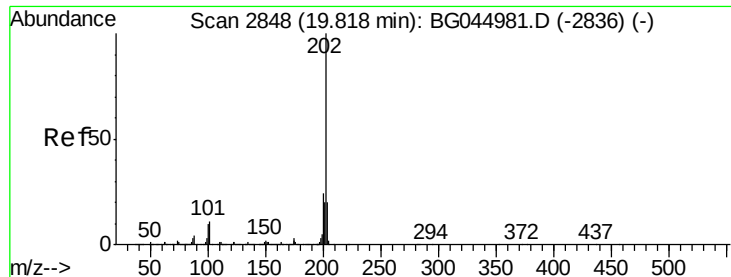
Tot Ion:240 Resp: 370262
Ion Ratio Lower Upper
240 100
120 7.4 6.6 10.0
236 26.0 22.2 33.2



#77
Benzidine
Concen: Below Cal
RT: 19.64 min Scan# 2817
Delta R.T. 0.01 min
Lab File: BG045021.D
Acq: 17 Apr 2020 00:49

Tgt Ion:184 Resp: 359
Ion Ratio Lower Upper
184 100
185 156.9 12.6 19.0#
183 253.7 11.3 16.9#





#78

Pvrene

Concen: 17.506 ng

RT: 19.81 min Scan# 2847

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

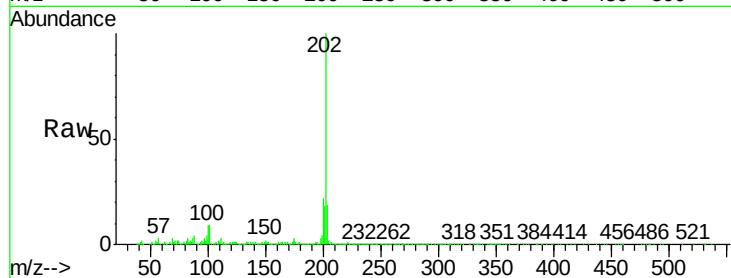
Tot Ion:202 Resp: 446852

Ion Ratio Lower Upper

202 100

200 21.9 19.0 28.6

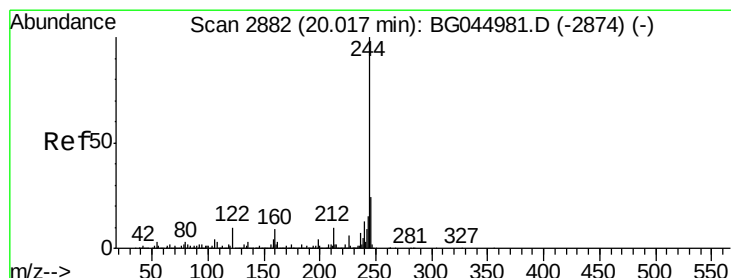
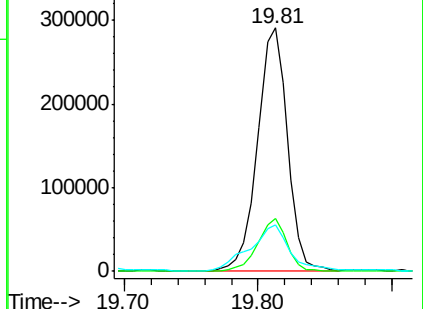
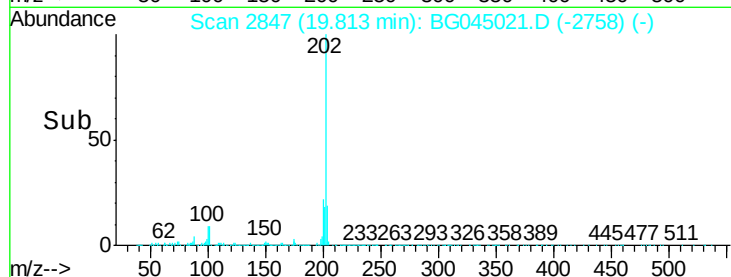
203 19.1 16.1 24.1



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: 20.032 ng

RT: 20.01 min Scan# 2881

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

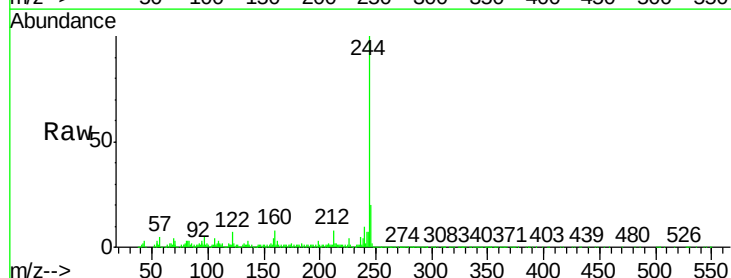
Tgt Ion:244 Resp: 340308

Ion Ratio Lower Upper

244 100

212 7.7 7.9 11.9#

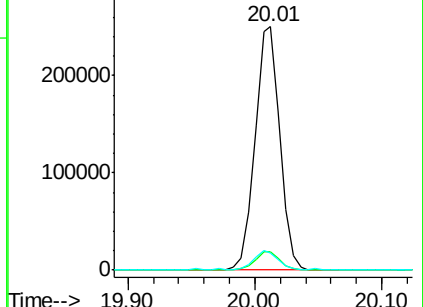
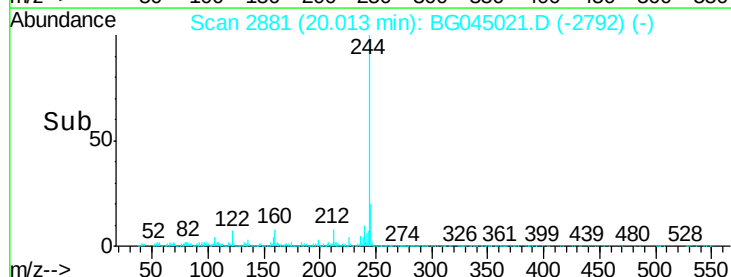
122 7.2 7.7 11.5#

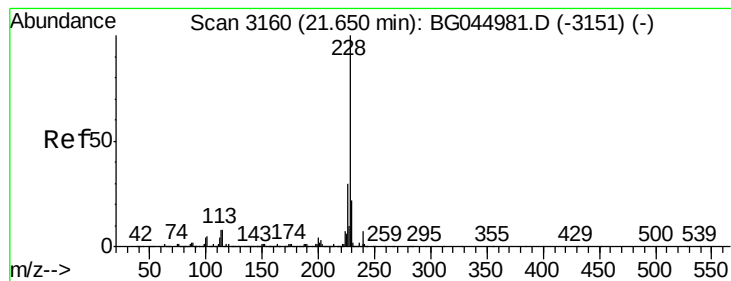


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 9.242 ng

RT: 21.65 min Scan# 3159

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

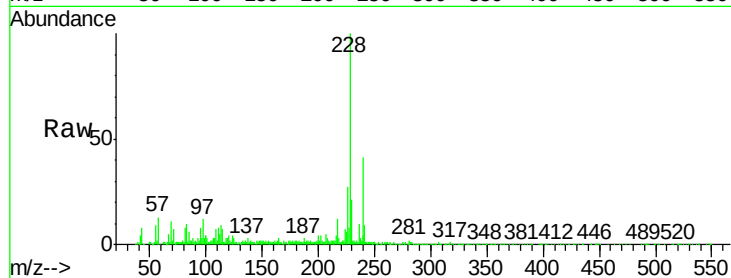
Tot Ion:228 Resp: 221798

Ion Ratio Lower Upper

228 100

226 26.6 24.0 36.0

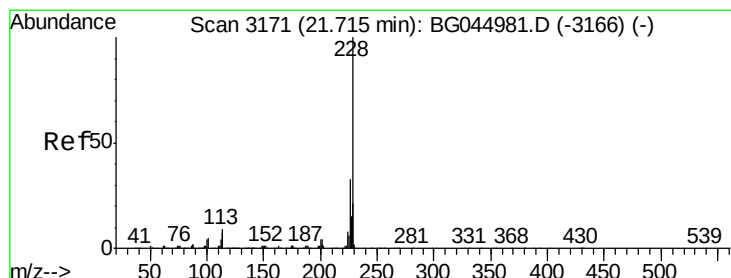
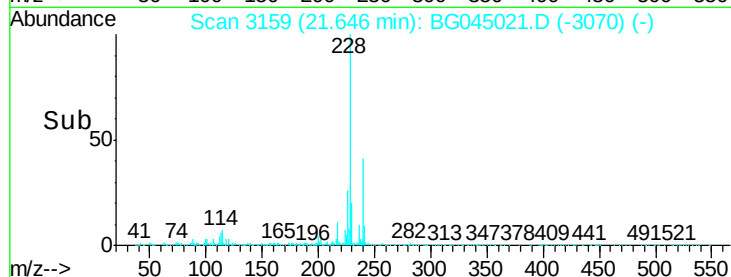
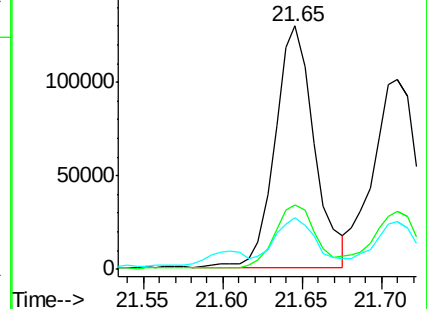
229 21.4 17.5 26.3



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: 8.392 ng

RT: 21.71 min Scan# 3170

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

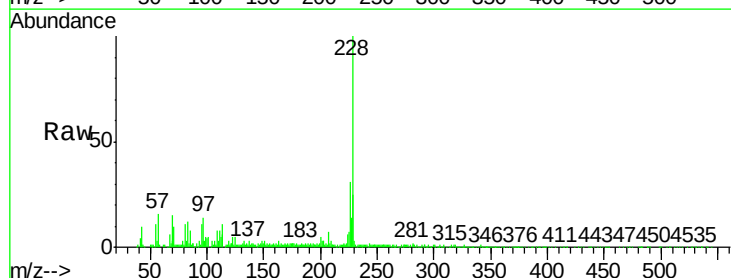
Tgt Ion:228 Resp: 193491

Ion Ratio Lower Upper

228 100

226 30.9 26.2 39.4

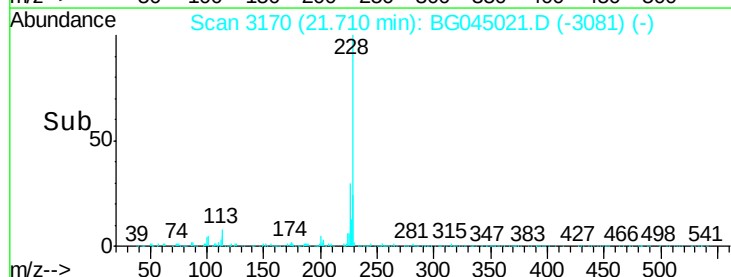
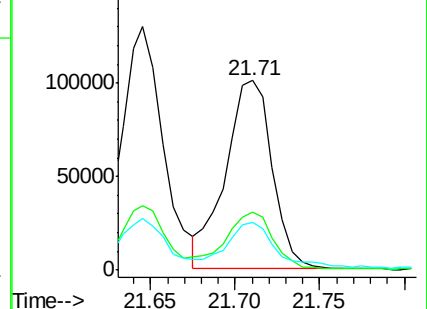
229 25.3 17.0 25.6

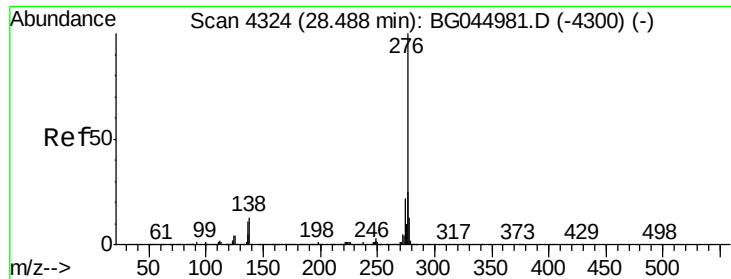


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.998 ng

RT: 28.46 min Scan# 4319

Delta R.T. -0.03 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

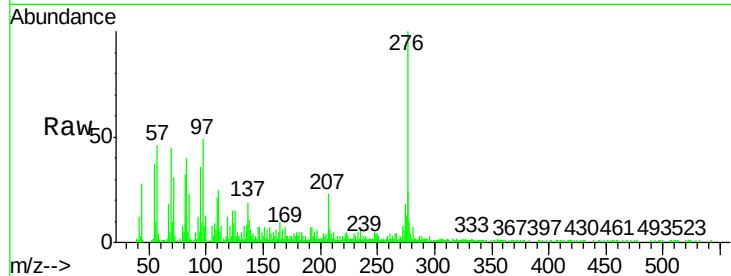
Tot Ion:276 Resp: 122407

Ion Ratio Lower Upper

276 100

138 10.7 9.6 14.4

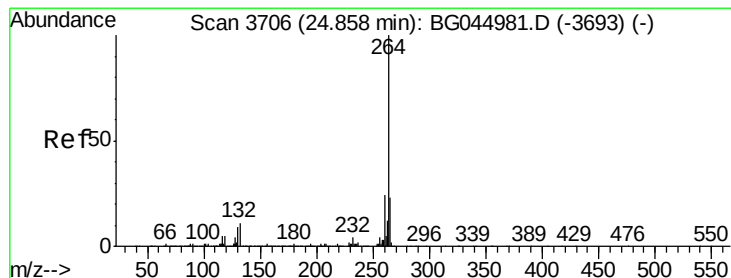
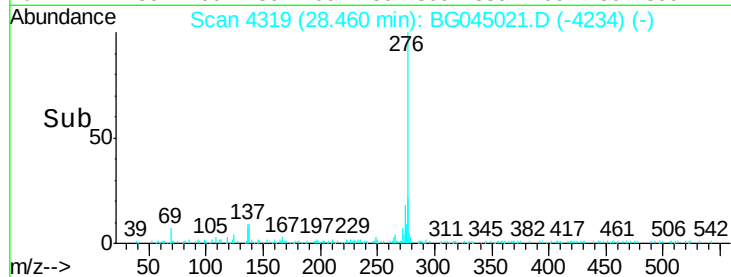
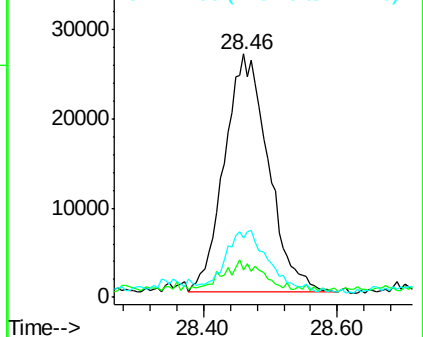
277 9.0 20.6 31.0#



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: 24.85 min Scan# 3705

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

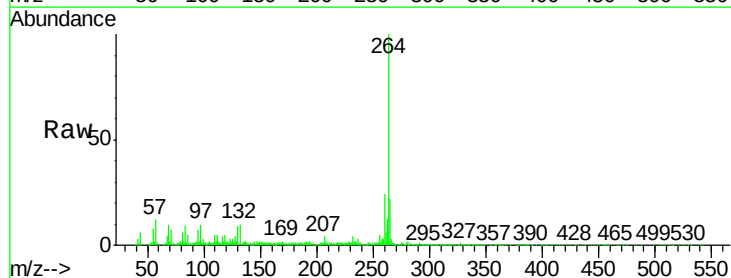
Tgt Ion:264 Resp: 417746

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

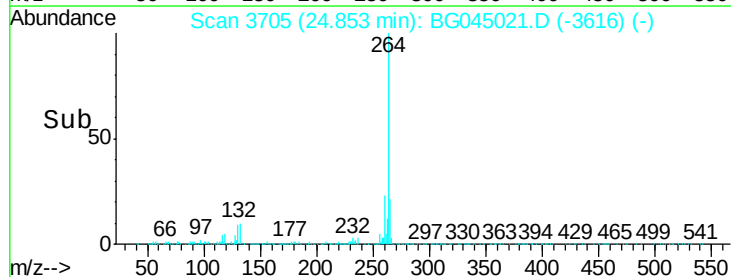
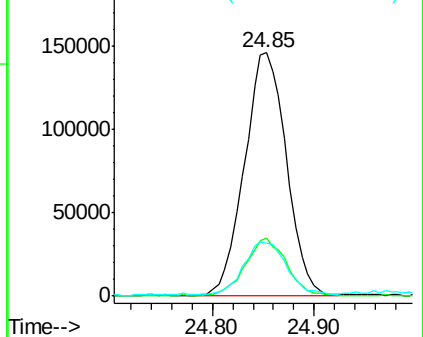
265 21.9 19.0 28.4

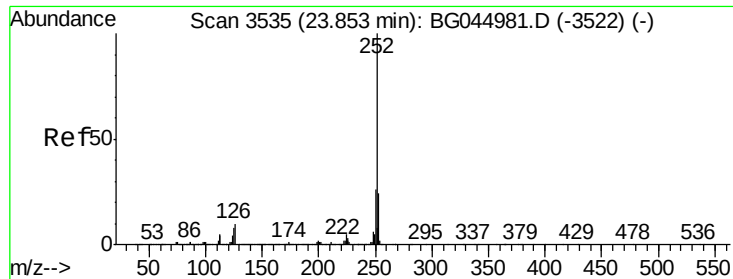


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 9.447 ng

RT: 23.85 min Scan# 3534

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

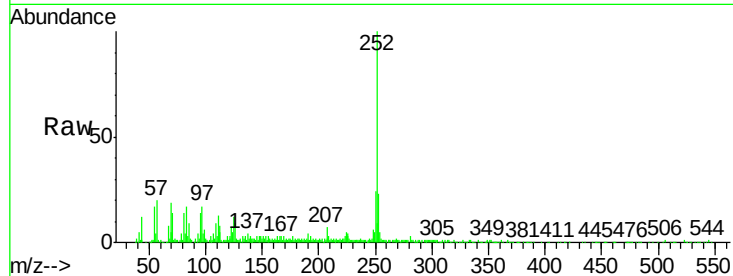
Tot Ion:252 Resp: 247194

Ion Ratio Lower Upper

252 100

253 23.0 18.8 28.2

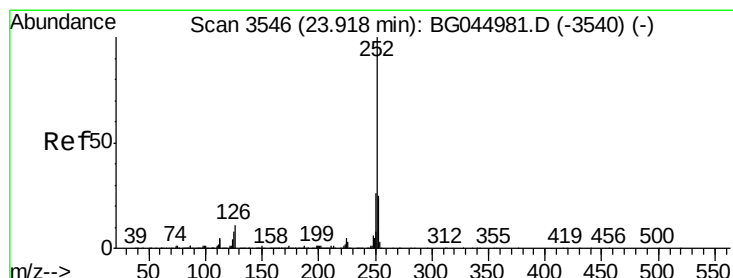
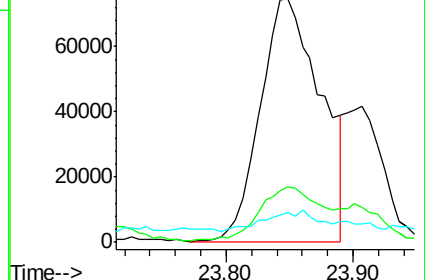
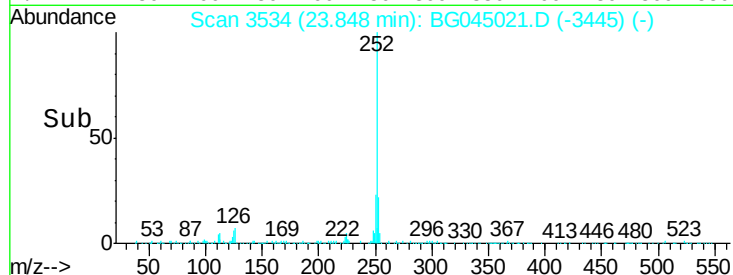
125 12.3 6.2 9.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 9.933 ng

RT: 23.85 min Scan# 3534

Delta R.T. -0.07 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

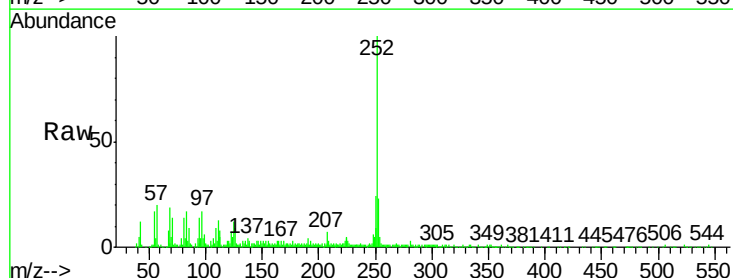
Tgt Ion:252 Resp: 247194

Ion Ratio Lower Upper

252 100

253 23.0 19.2 28.8

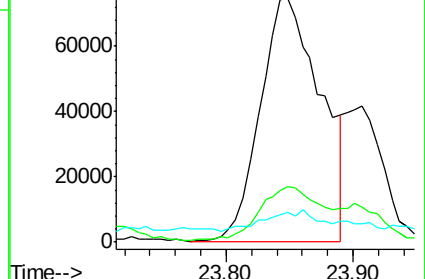
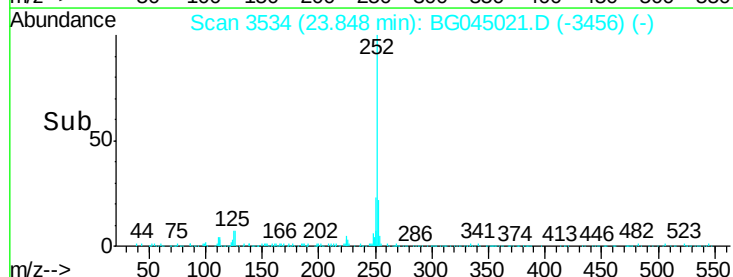
125 12.3 5.9 8.9#

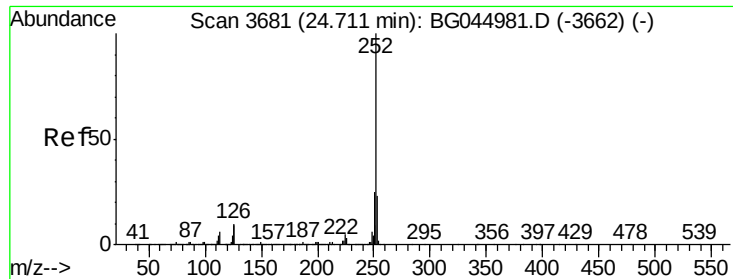


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 7.936 ng

RT: 24.71 min Scan# 3680

Delta R.T. -0.00 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

Instrument :

BNA_G

ClientSampleId :

TP-18

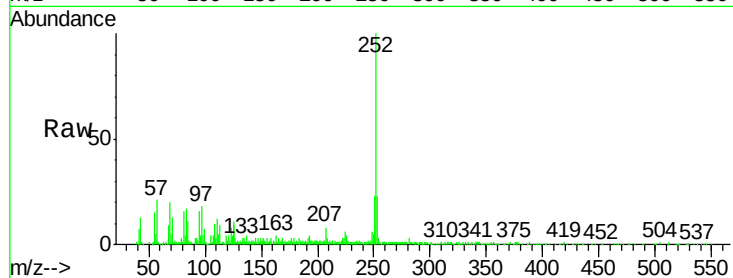
Tot Ion:252 Resp: 196067

Ion Ratio Lower Upper

252 100

253 22.8 18.3 27.5

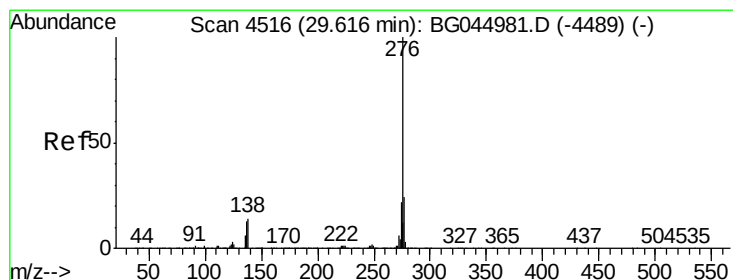
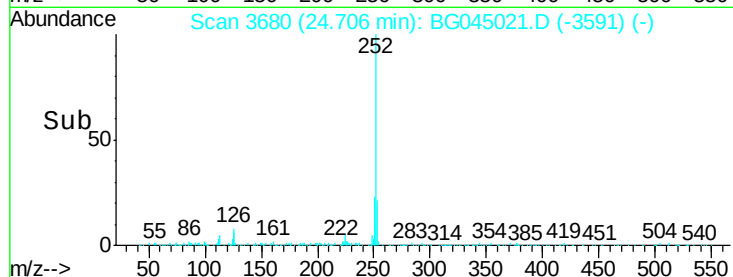
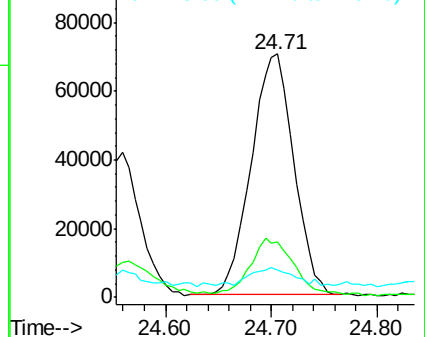
125 11.1 7.0 10.6#



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: 4.609 ng

RT: 29.59 min Scan# 4511

Delta R.T. -0.03 min

Lab File: BG045021.D

Acq: 17 Apr 2020 00:49

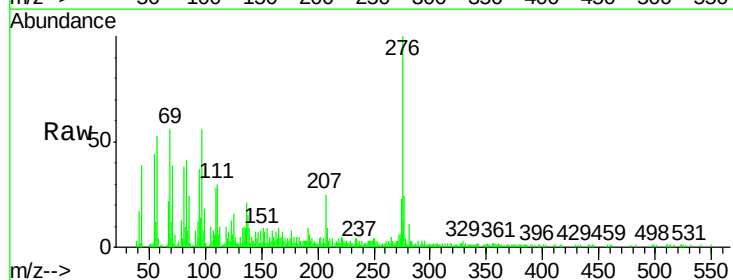
Tgt Ion:276 Resp: 115043

Ion Ratio Lower Upper

276 100

277 23.7 19.3 28.9

138 15.5 11.4 17.2



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

