

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG042420\
 Data File : BG045173.D
 Acq On : 24 Apr 2020 23:03
 Operator : CG/JU
 Sample : L2118-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Apr 25 00:23:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 23 13:58:55 2020
 Response via : Initial Calibration

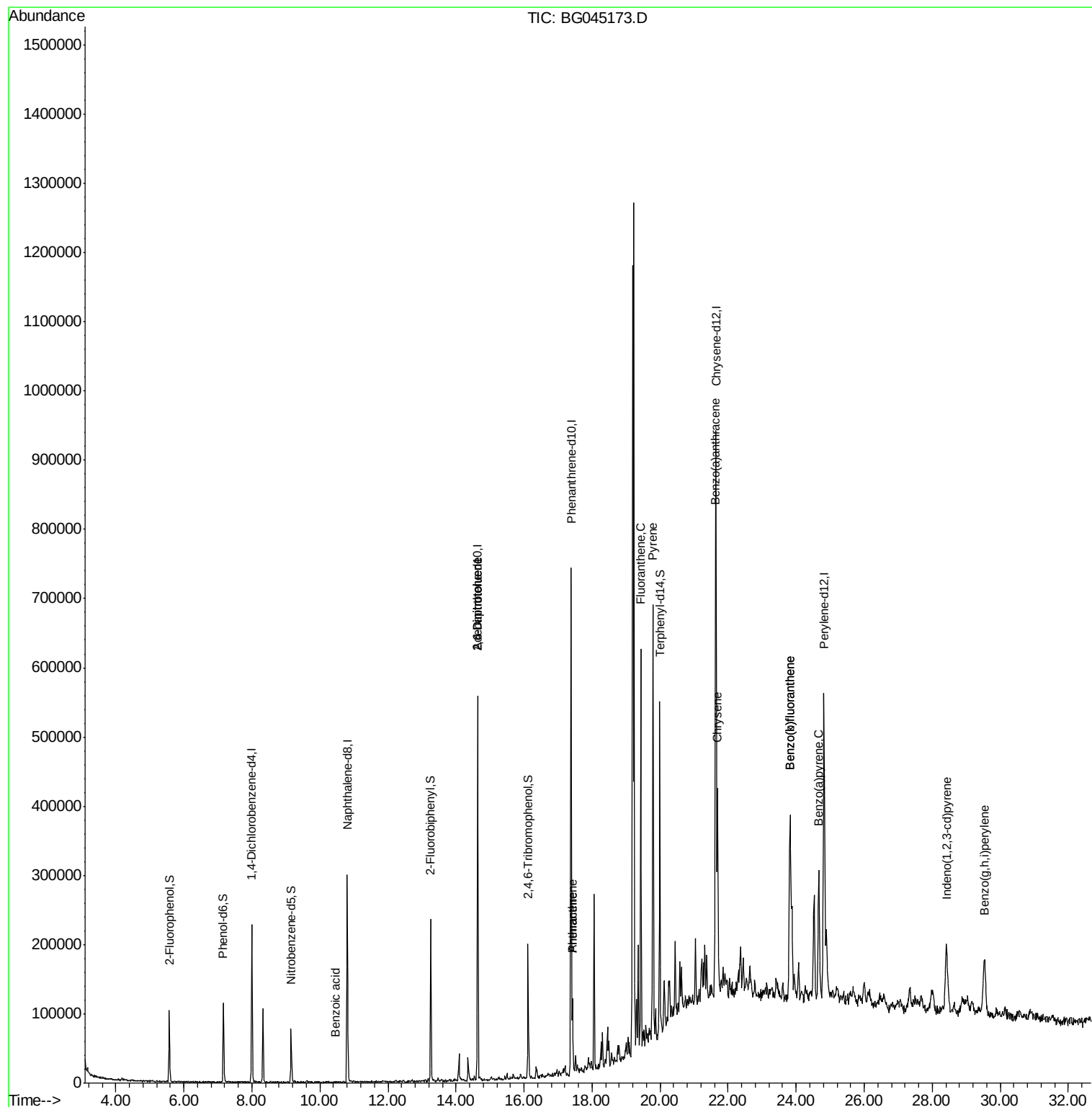
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	72205	20.00	ng	0.00
21) Naphthalene-d8	10.81	136	281438	20.00	ng	0.00
39) Acenaphthene-d10	14.63	164	206013	20.00	ng	0.00
64) Phenanthrene-d10	17.38	188	482832	20.00	ng	0.00
76) Chrysene-d12	21.64	240	461931	20.00	ng	-0.01
87) Perylene-d12	24.82	264	492905	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	53516	12.24	ng	0.00
7) Phenol-d6	7.16	99	80382	12.37	ng	0.00
23) Nitrobenzene-d5	9.15	82	55631	9.02	ng	-0.01
42) 2,4,6-Tribromophenol	16.13	330	41149	12.93	ng	0.00
45) 2-Fluorobiphenyl	13.26	172	134478	9.57	ng	0.00
79) Terphenyl-d14	19.99	244	245416	11.58	ng	0.00
Target Compounds						
32) Benzoic acid	10.47	122	80	6.394	ng	# 24
51) 2,6-Dinitrotoluene	14.63	165	26638	7.100	ng	# 25
57) 2,4-Dinitrotoluene	14.63	165	26638	4.858	ng	# 23
69) Atrazine	16.84	200	53	Below Cal	#	1
71) Phenanthrene	17.42	178	67296	2.712	ng	96
72) Anthracene	17.42	178	67296	2.704	ng	97
74) Di-n-butylphthalate	18.34	149	836	Below Cal	#	76
75) Fluoranthene	19.43	202	375116	7.756	ng	96
77) Benzidine	19.59	184	386	Below Cal	#	1
78) Pyrene	19.79	202	414447	13.014	ng	95
81) Benzo(a)anthracene	21.62	228	243136	8.121	ng	99
83) Chrysene	21.69	228	230383	8.009	ng	97
86) Indeno(1,2,3-cd)pyrene	28.41	276	180309	4.721	ng	# 56
88) Benzo(b)fluoranthene	23.82	252	358533	11.612	ng	94
89) Benzo(k)fluoranthene	23.82	252	358533	12.211	ng	94
90) Benzo(a)pyrene	24.66	252	214888	7.372	ng	96
92) Benzo(a,h,i)perylene	29.54	276	175581	5.962	ng	98

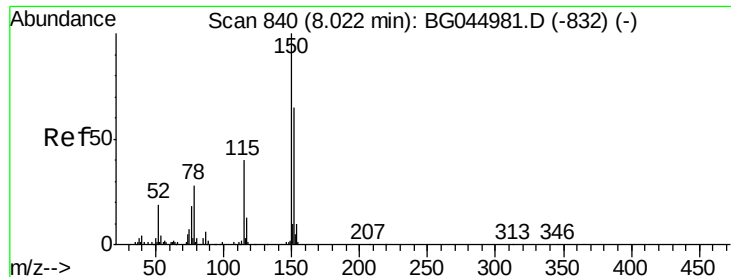
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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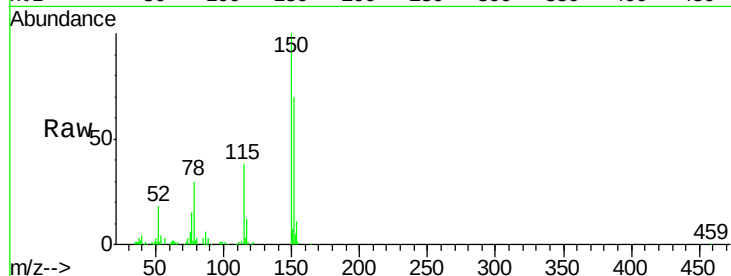


#1

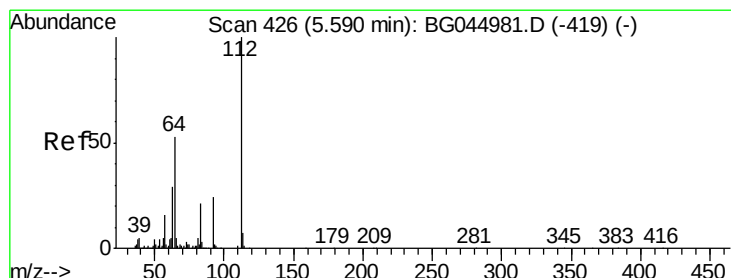
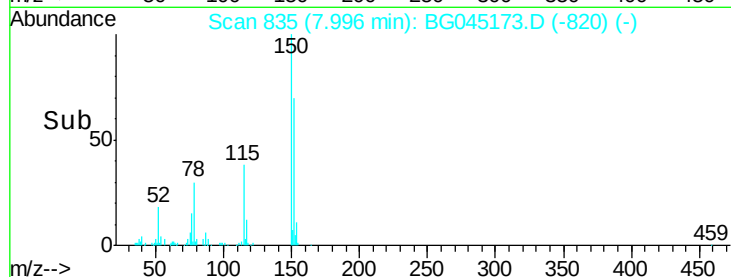
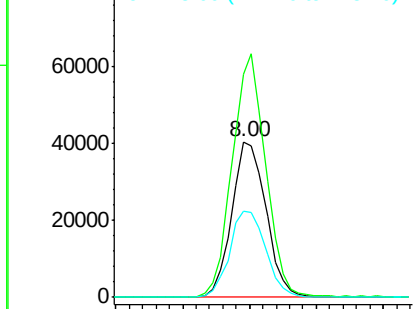
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 835
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	143.7	123.6	185.4
115	55.3	49.1	73.7



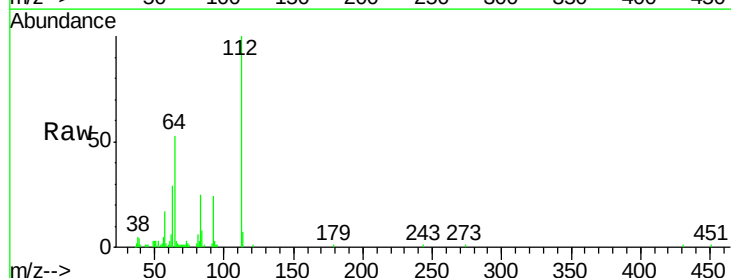
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



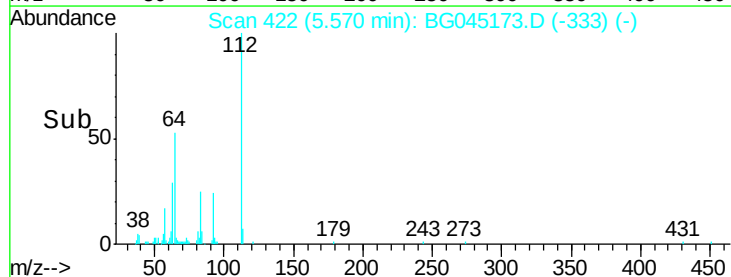
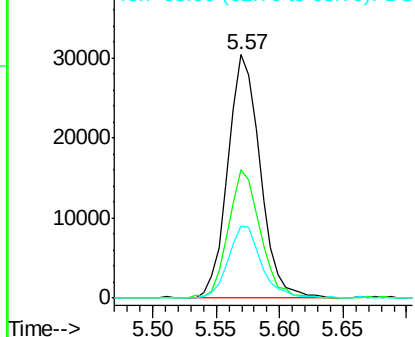
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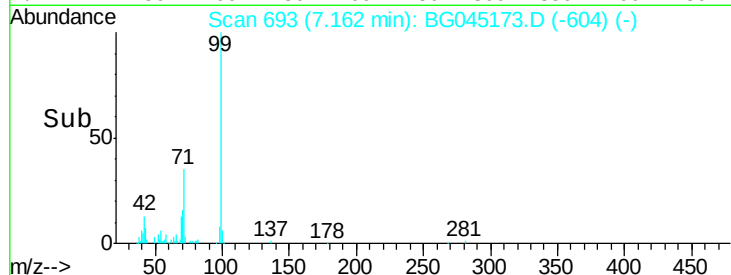
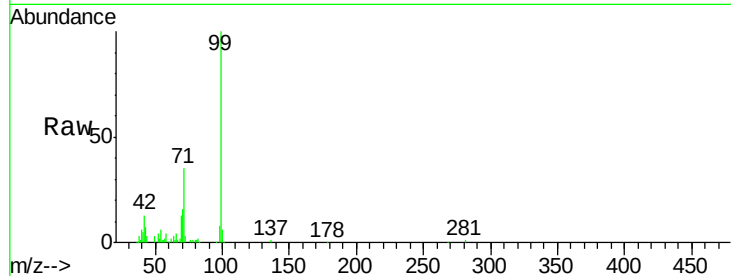
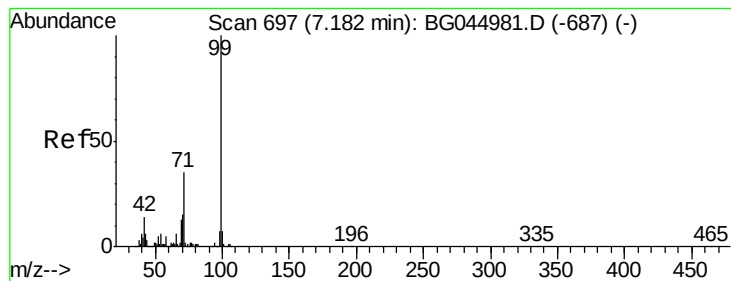
2-Fluorophenol
Concen: 12.236 ng
RT: 5.57 min Scan# 422
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	42.4	63.6
63	29.5	23.1	34.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG0
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 12.370 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

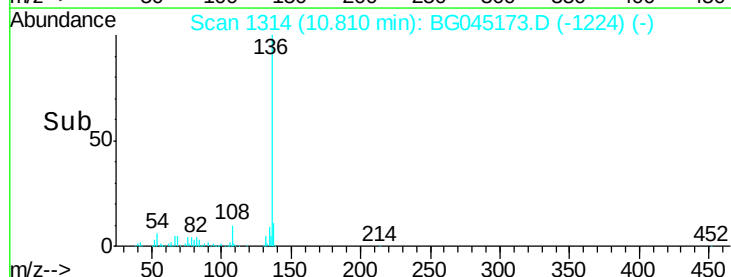
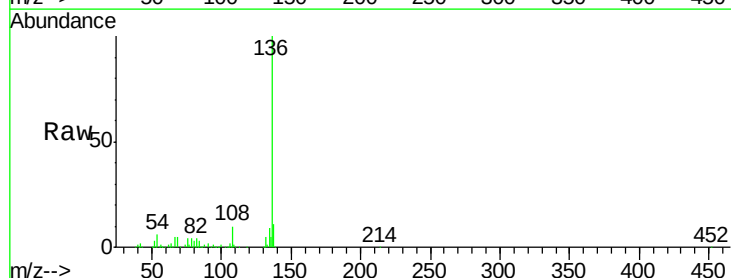
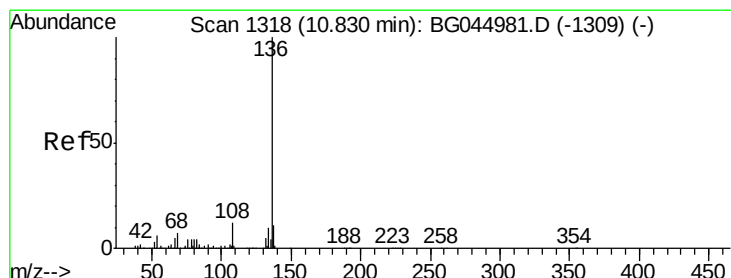
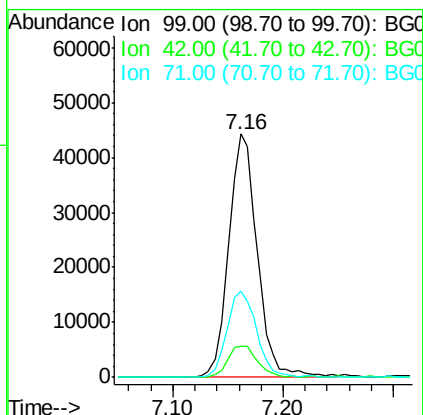
Tot Ion: 99 Resp: 80382

Ion Ratio Lower Upper

99 100

42 12.9 11.3 16.9

71 35.2 28.3 42.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.81 min Scan# 1314

Delta R.T. -0.00 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Tgt Ion: 136 Resp: 281438

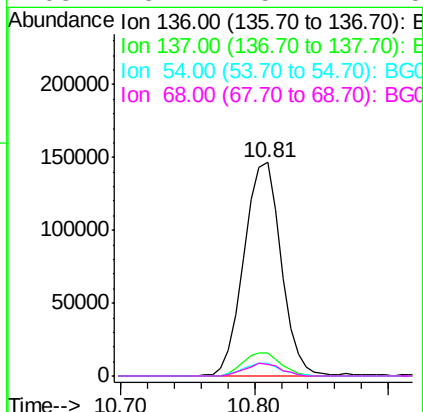
Ion Ratio Lower Upper

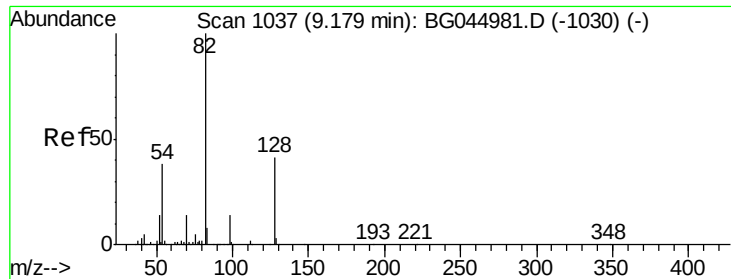
136 100

137 10.9 8.6 13.0

54 6.1 4.8 7.2

68 5.4 5.2 7.8

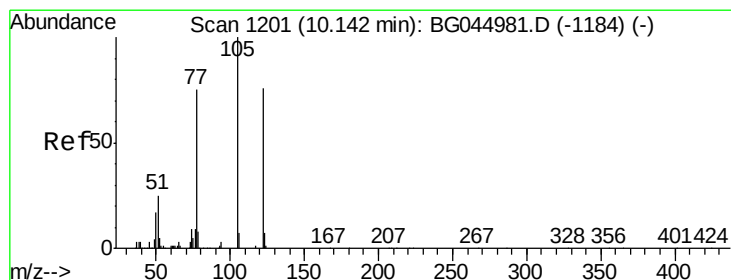
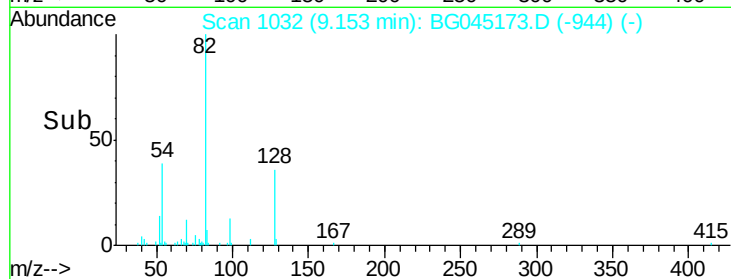
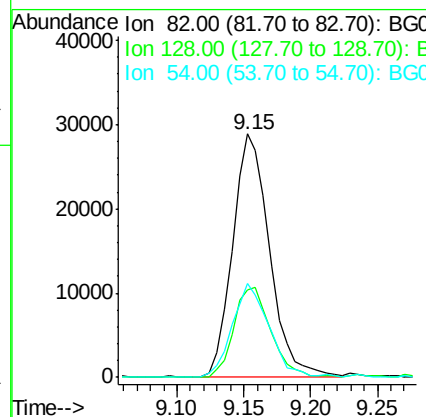
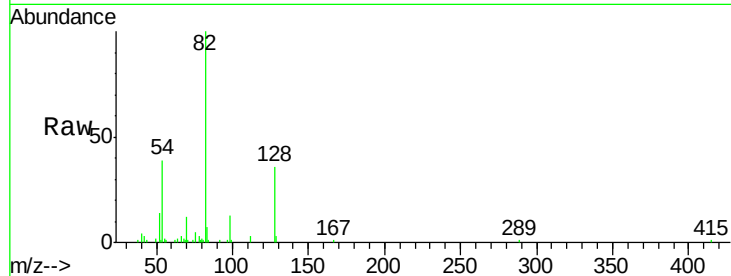




#23
 Nitrobenzene-d5
 Concen: 9.019 ng
 RT: 9.15 min Scan# 1032
 Delta R.T. -0.01 min
 Lab File: BG045173.D
 Acq: 24 Apr 2020 23:03

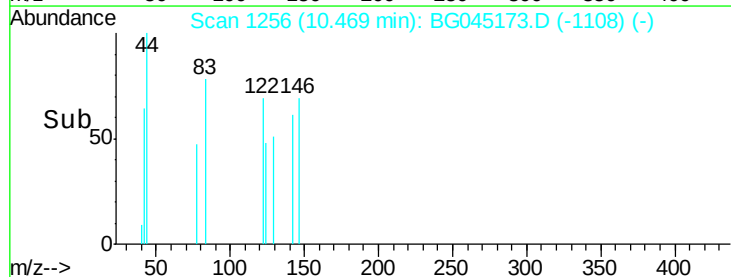
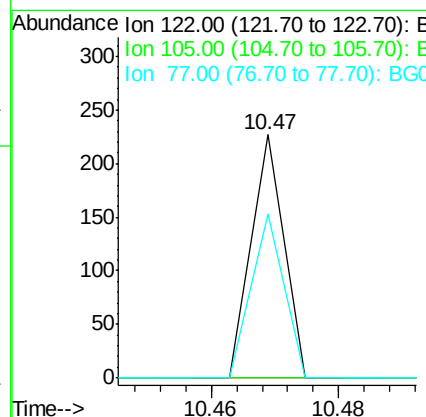
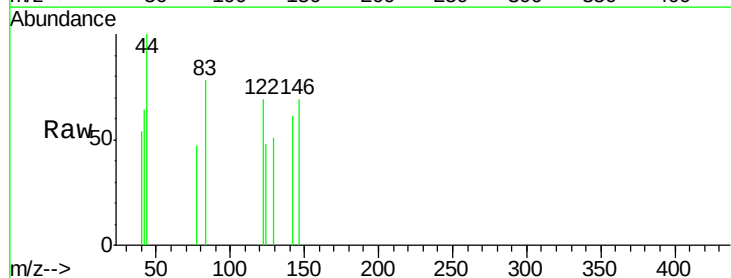
Instrument :
 BNA_G
 ClientSampled :

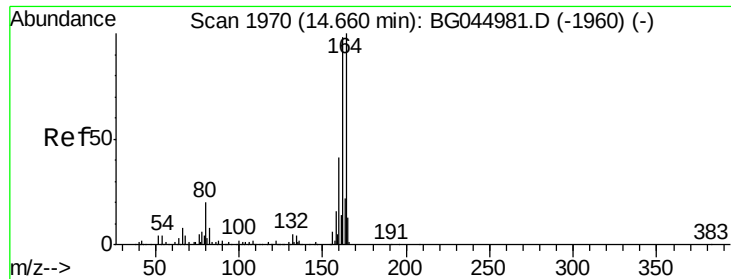
Tot Ion	82	Resp	55631
Ion Ratio	Lower	Upper	
82	100		
128	36.2	33.0	49.4
54	38.8	30.4	45.6



#32
 Benzoic acid
 Concen: 6.394 ng
 RT: 10.47 min Scan# 1256
 Delta R.T. 0.34 min
 Lab File: BG045173.D
 Acq: 24 Apr 2020 23:03

Tgt Ion	122	Resp	80
Ion Ratio	Lower	Upper	
122	100		
105	0.0	108.4	148.4#
77	67.4	78.8	118.8#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.63 min Scan# 1965

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

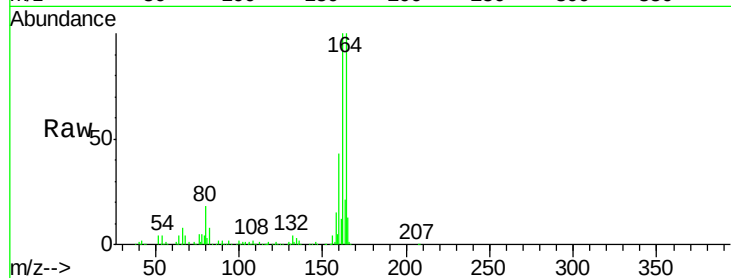
Instrument :

BNA_G

ClientSampleId :

Tot Ion:164 Resp: 206013

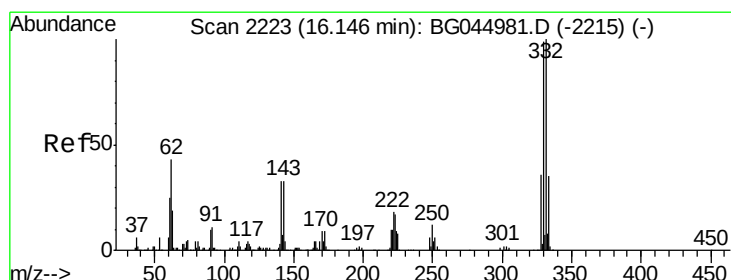
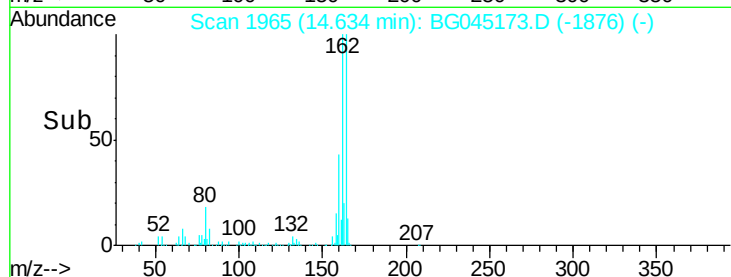
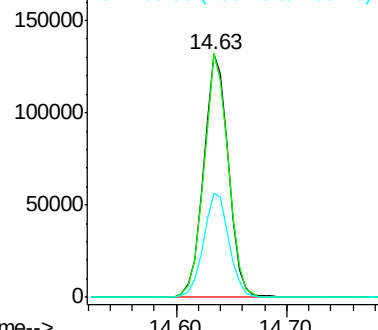
Ion	Ratio	Lower	Upper
164	100		
162	100.0	78.7	118.1
160	42.7	32.8	49.2



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: 12.929 ng

RT: 16.13 min Scan# 2219

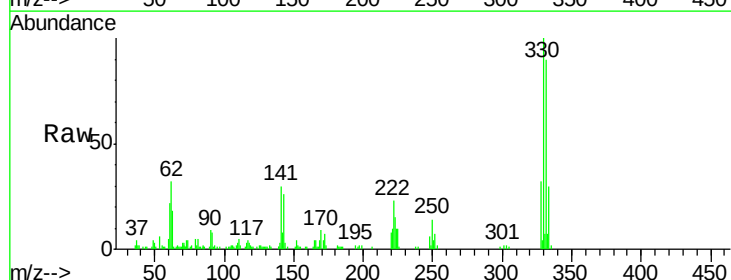
Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Tgt Ion:330 Resp: 41149

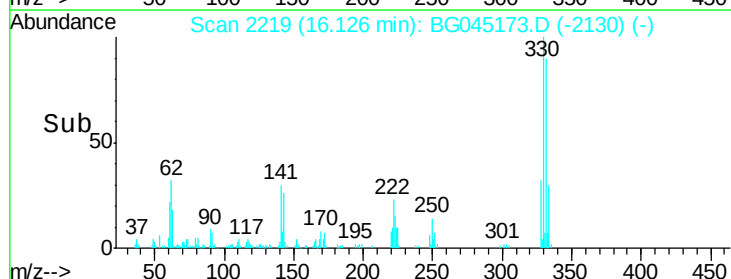
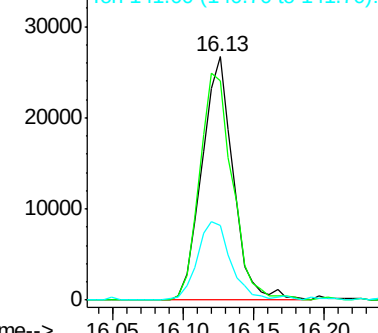
Ion	Ratio	Lower	Upper
330	100		
332	97.8	79.1	118.7
141	35.2	27.1	40.7

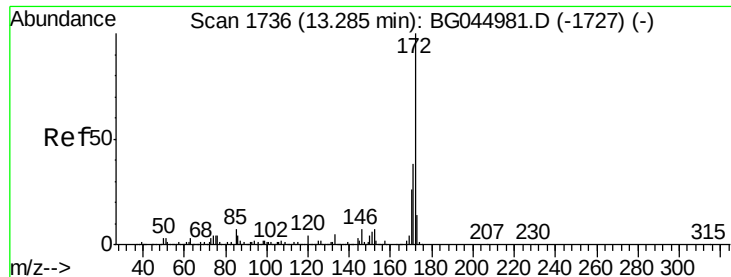


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

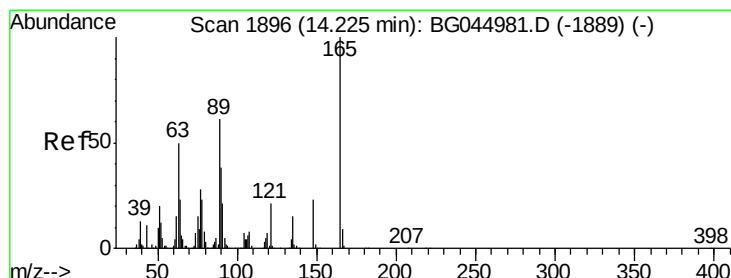
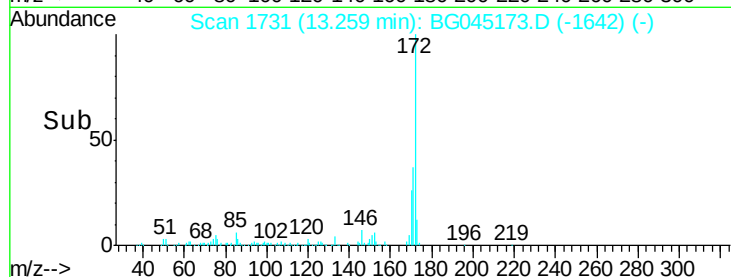
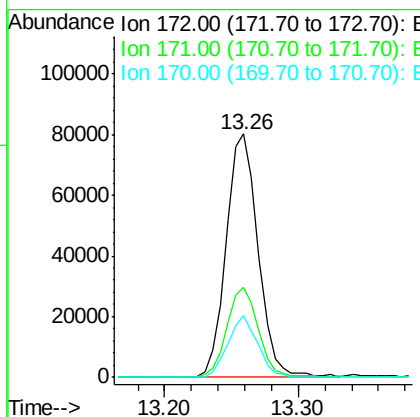
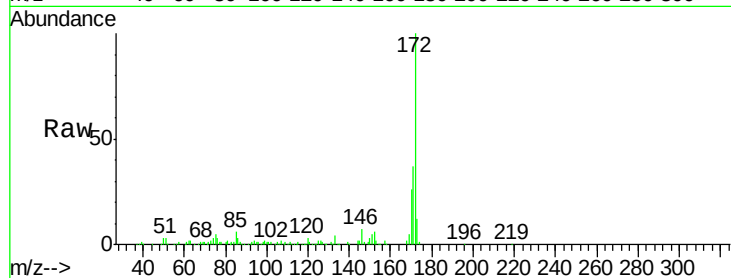




#45
2-Fluorobiphenyl
Concen: 9.572 ng
RT: 13.26 min Scan# 1731
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

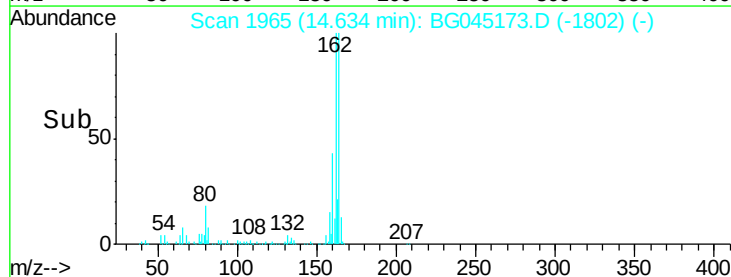
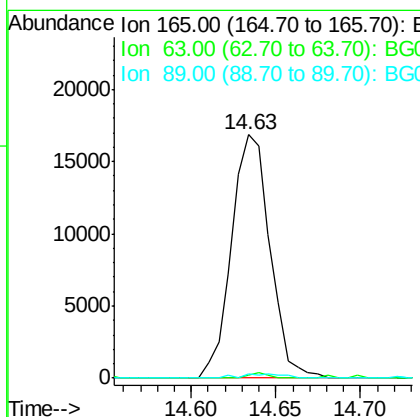
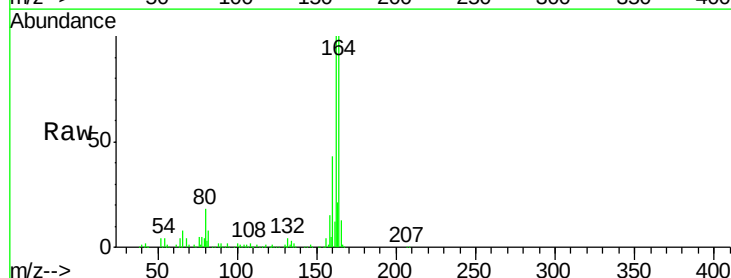
Instrument :
BNA_G
ClientSampleId :

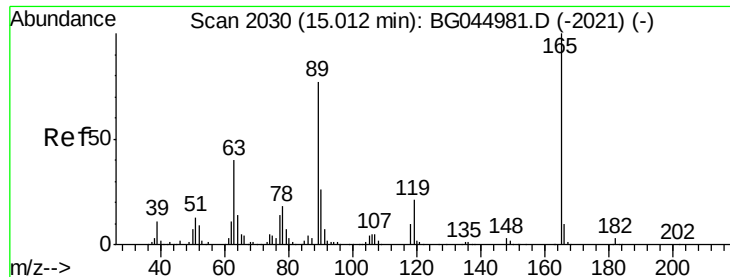
Tot Ion:172 Resp: 134478
Ion Ratio Lower Upper
172 100
171 36.9 30.6 46.0
170 25.7 20.5 30.7



#51
2,6-Dinitrotoluene
Concen: 7.100 ng
RT: 14.63 min Scan# 1965
Delta R.T. 0.43 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Tgt Ion:165 Resp: 26638
Ion Ratio Lower Upper
165 100
63 1.1 40.4 60.6#
89 1.7 49.1 73.7#

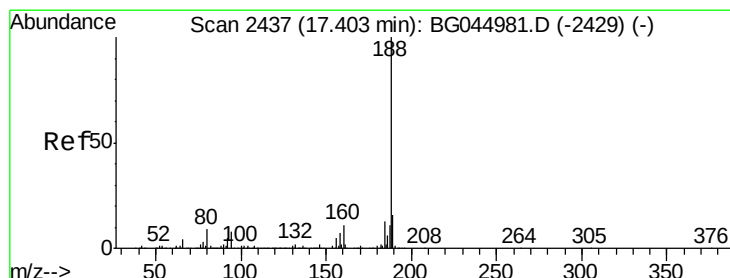
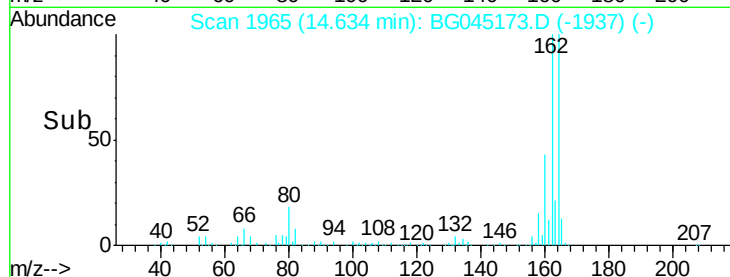
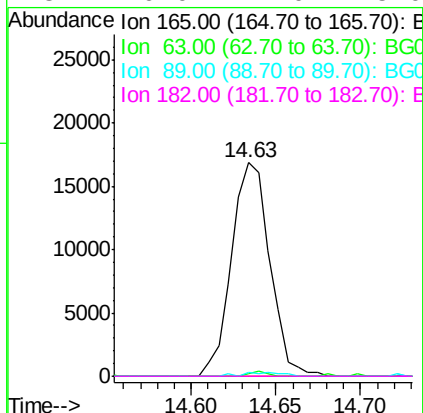
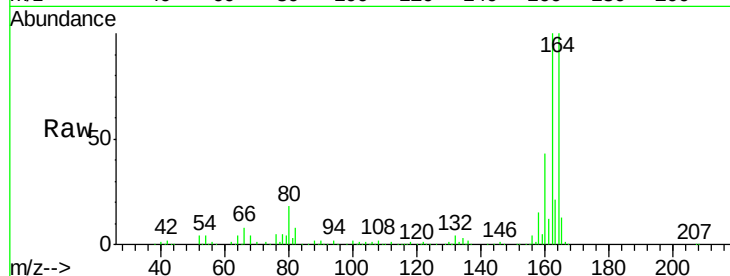




#57
 2,4-Dinitrotoluene
 Concen: 4.858 ng
 RT: 14.63 min Scan# 1965
 Delta R.T. -0.37 min
 Lab File: BG045173.D
 Acq: 24 Apr 2020 23:03

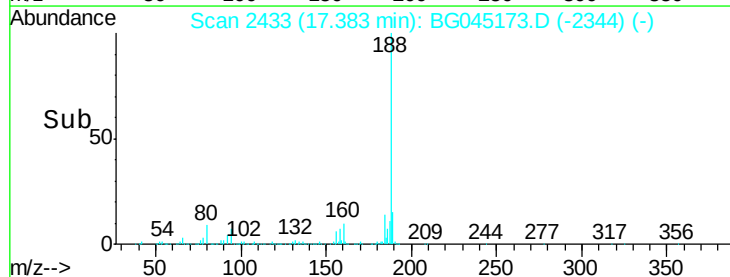
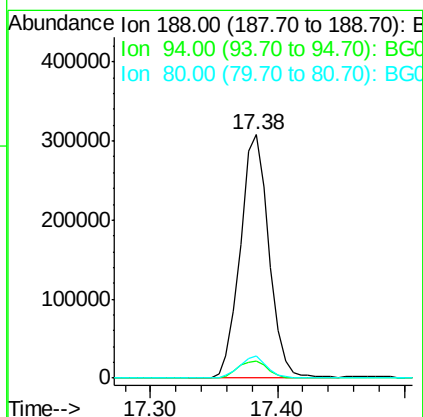
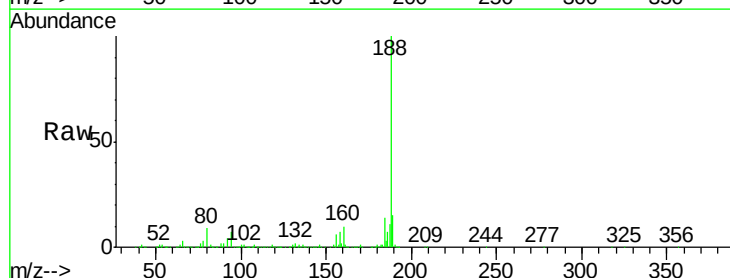
Instrument :
 BNA_G
 ClientSampled :

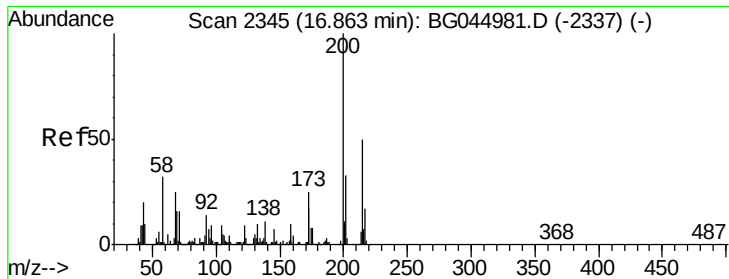
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	32.2	48.2#
89	1.7	61.7	92.5#
182	0.0	2.0	3.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.38 min Scan# 2433
 Delta R.T. -0.01 min
 Lab File: BG045173.D
 Acq: 24 Apr 2020 23:03

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.2	6.2	9.4
80	8.9	7.0	10.6

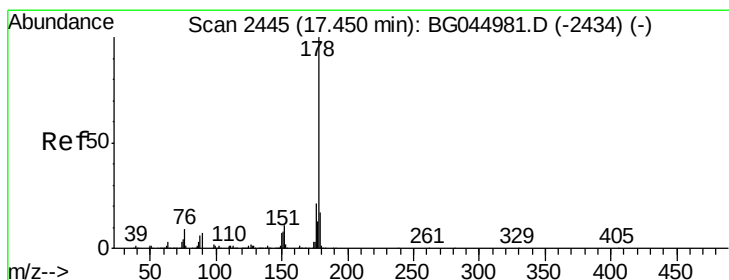
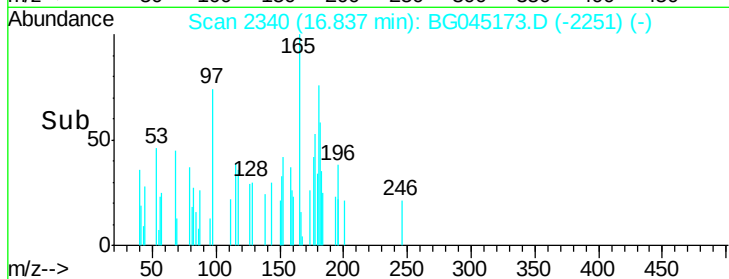
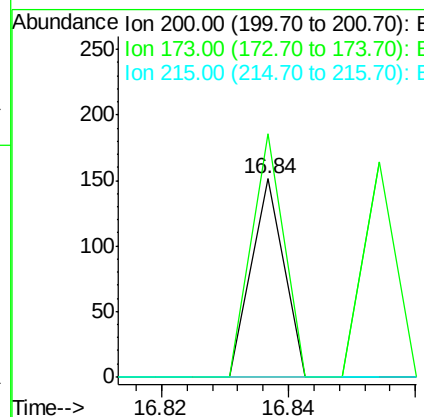
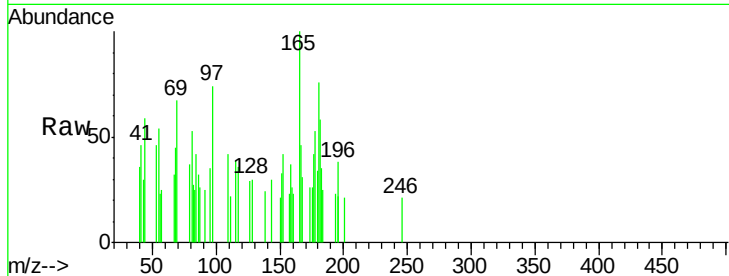




#69
Atrazine
Concen: Below Cal
RT: 16.84 min Scan# 2340
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

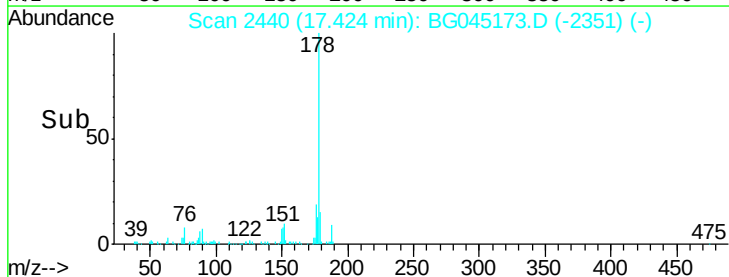
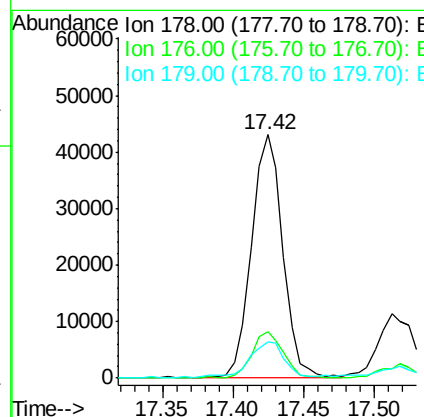
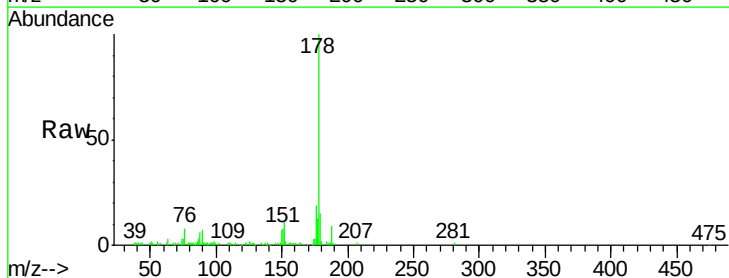
Instrument :
BNA_G
ClientSampled :

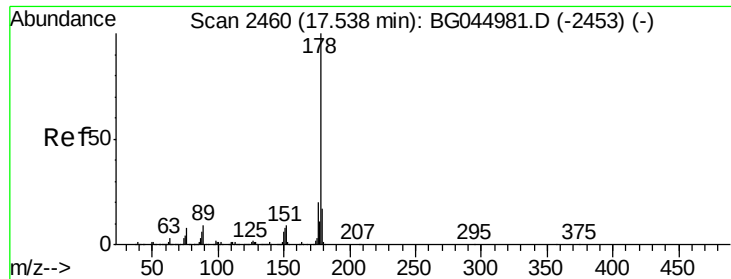
Tot Ion	Ratio	Lower	Upper
200	100		
173	123.2	4.5	44.5#
215	0.0	30.0	70.0#



#71
Phenanthrene
Concen: 2.712 ng
RT: 17.42 min Scan# 2440
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.8	25.2
179	15.0	13.2	19.8





#72

Anthracene

Concen: 2.704 ng

RT: 17.42 min Scan# 2440

Delta R.T. -0.10 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

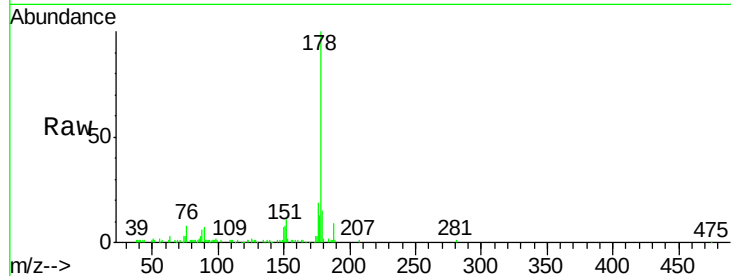
Tot Ion:178 Resp: 67296

Ion Ratio Lower Upper

178 100

176 19.3 16.0 24.0

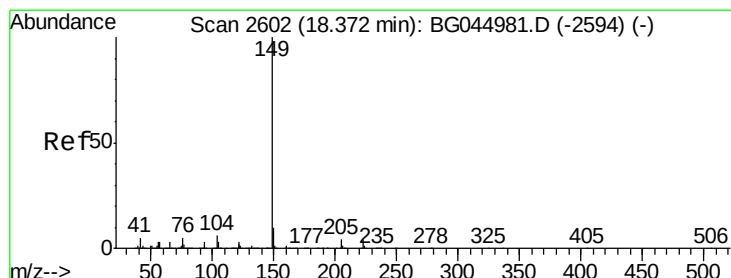
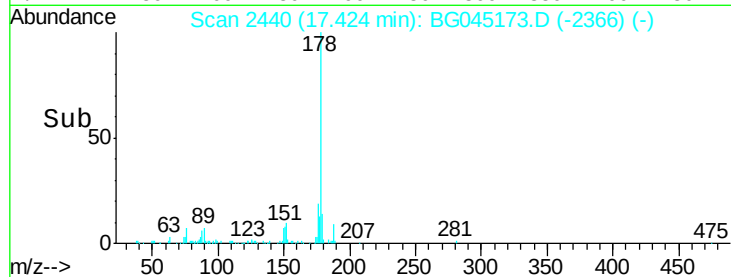
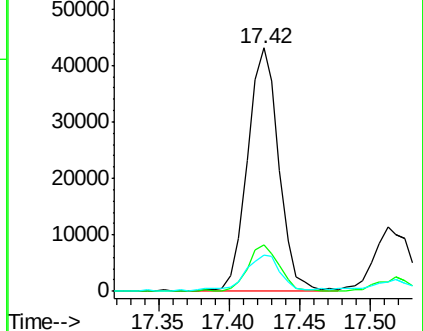
179 15.0 13.6 20.4



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: 18.34 min Scan# 2596

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

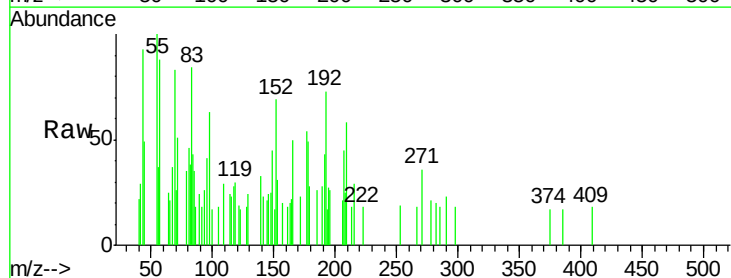
Tgt Ion:149 Resp: 836

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

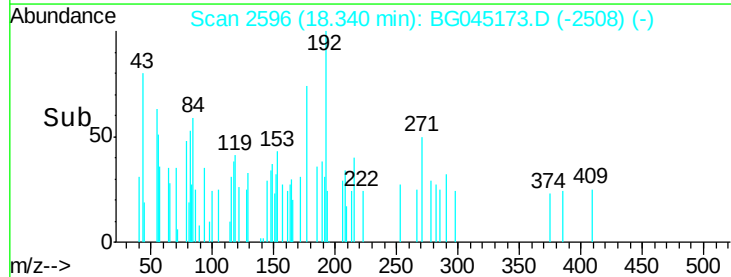
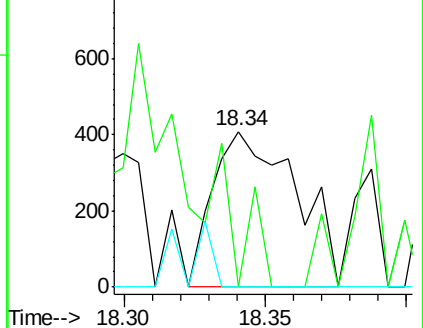
104 0.0 4.8 7.2#

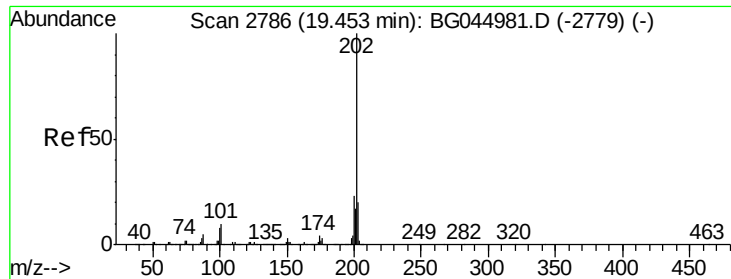


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 7.756 ng

RT: 19.43 min Scan# 2782

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

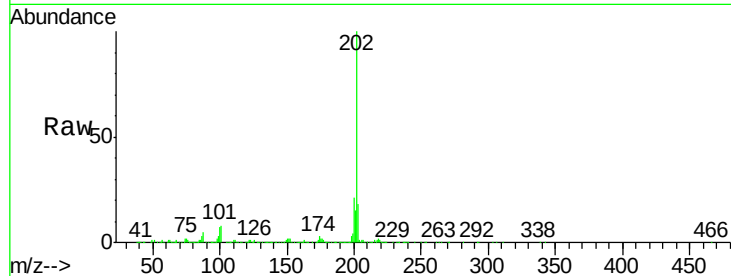
Tot Ion:202 Resp: 375116

Ion Ratio Lower Upper

202 100

101 7.9 0.0 29.6

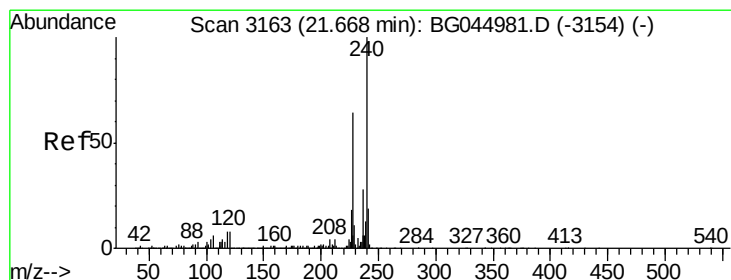
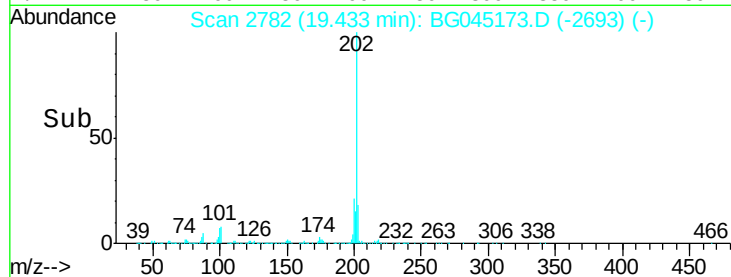
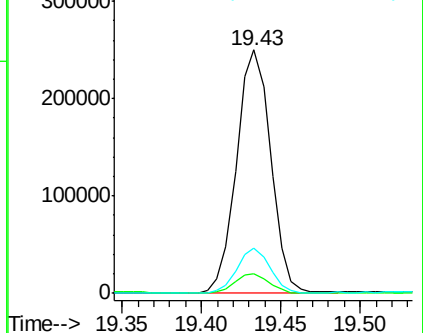
203 18.3 0.0 39.7



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: 21.64 min Scan# 3158

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

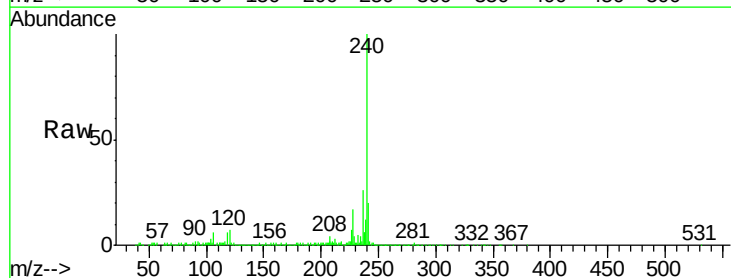
Tgt Ion:240 Resp: 461931

Ion Ratio Lower Upper

240 100

120 7.3 6.6 10.0

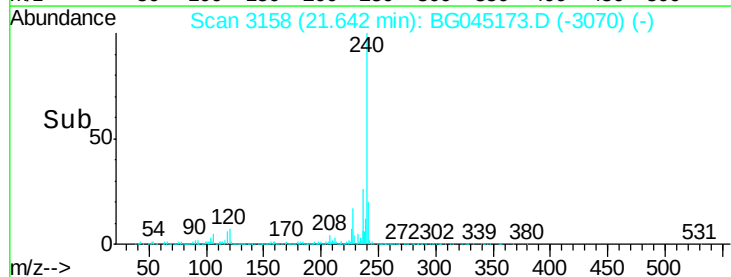
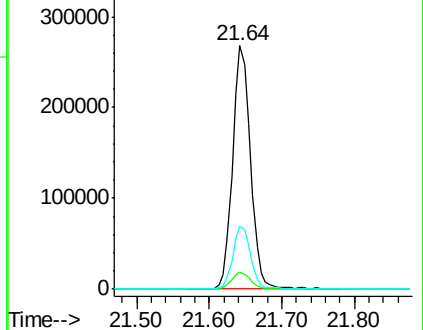
236 25.8 22.2 33.2

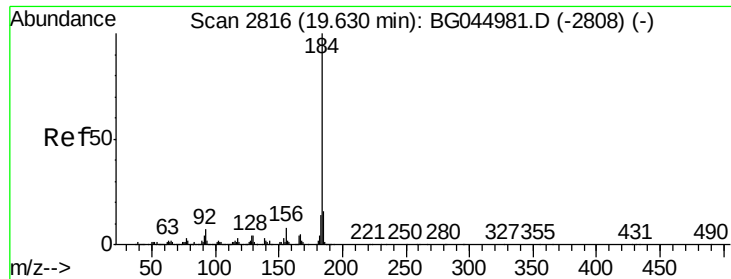


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: Below Cal

RT: 19.59 min Scan# 2808

Delta R.T. -0.03 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampled :

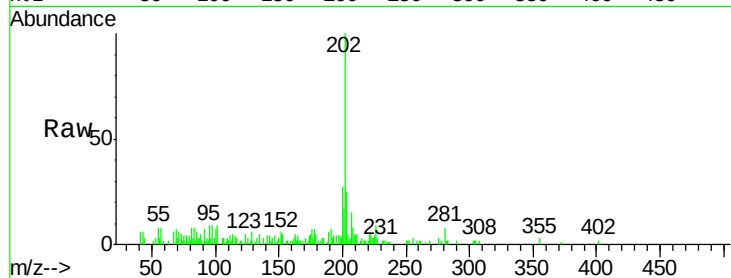
Tot Ion:184 Resp: 386

Ion Ratio Lower Upper

184 100

185 102.4 12.6 19.0#

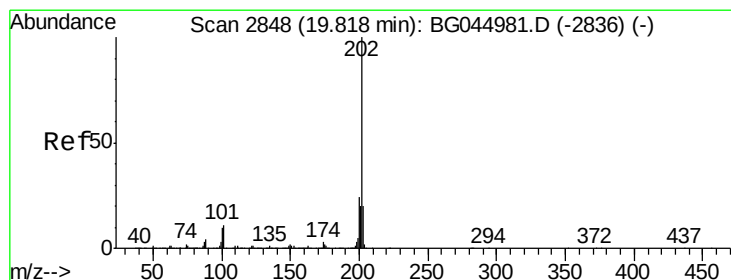
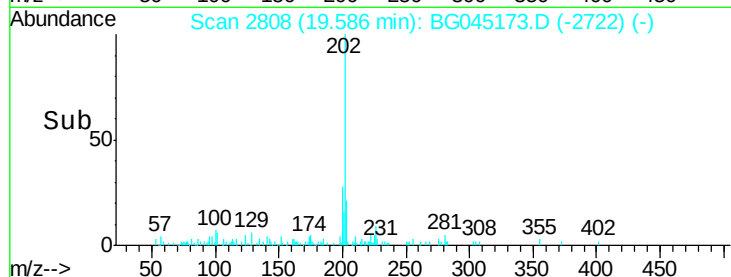
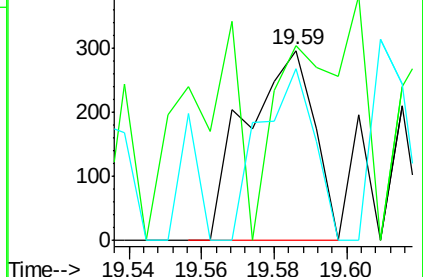
183 90.5 11.3 16.9#



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: 13.014 ng

RT: 19.79 min Scan# 2843

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

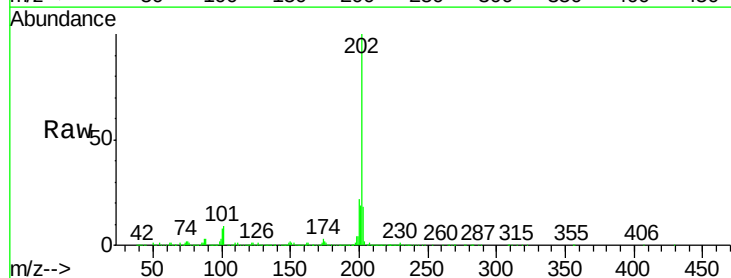
Tgt Ion:202 Resp: 414447

Ion Ratio Lower Upper

202 100

200 21.6 19.0 28.6

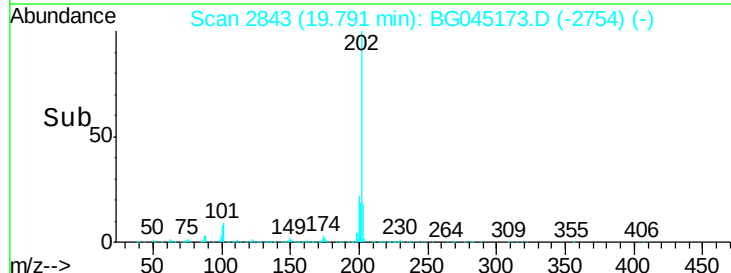
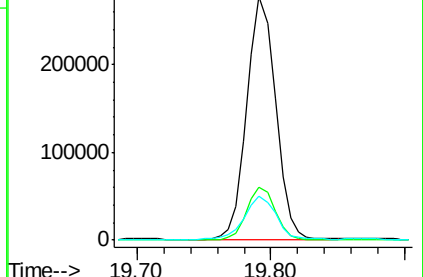
203 17.8 16.1 24.1

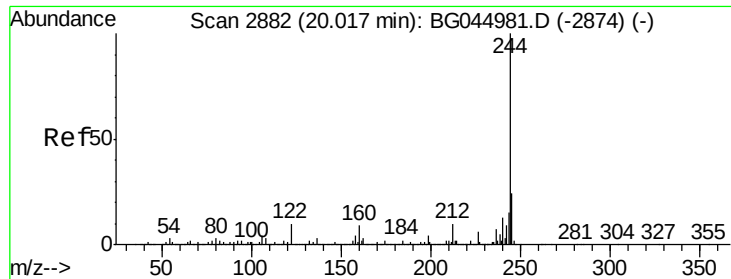


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 11.580 ng

RT: 19.99 min Scan# 2877

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

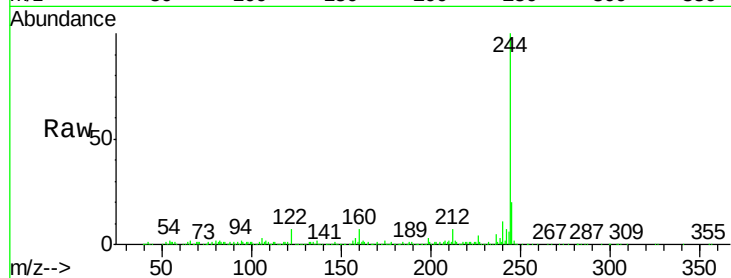
Tot Ion:244 Resp: 245416

Ion Ratio Lower Upper

244 100

212 7.4 7.9 11.9#

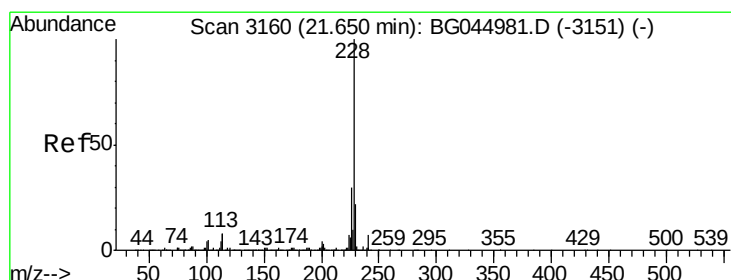
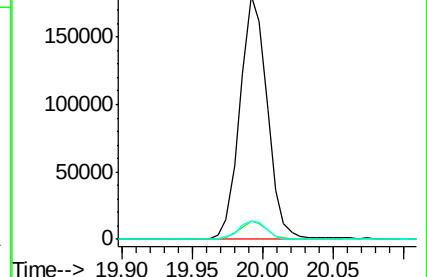
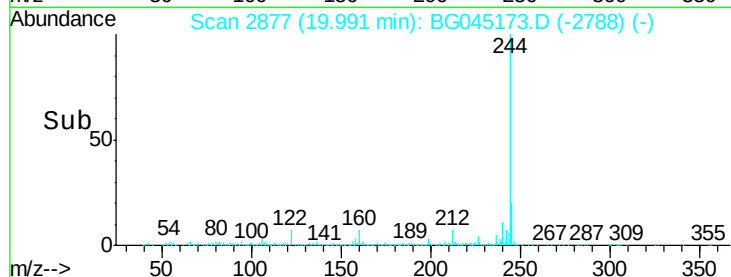
122 7.4 7.7 11.5#



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: 8.121 ng

RT: 21.62 min Scan# 3155

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

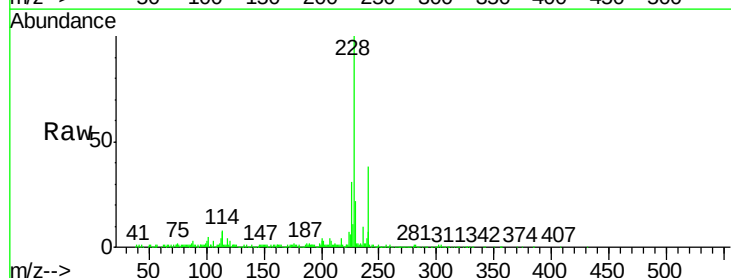
Tgt Ion:228 Resp: 243136

Ion Ratio Lower Upper

228 100

226 30.5 24.0 36.0

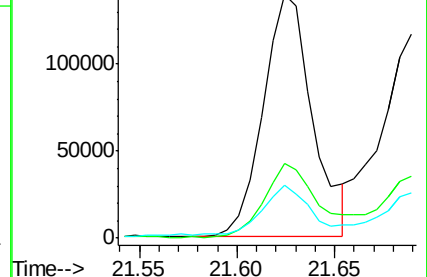
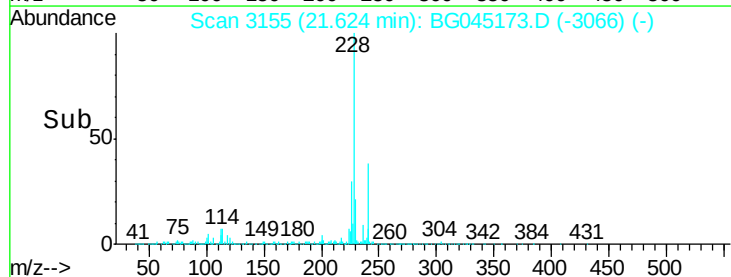
229 21.5 17.5 26.3

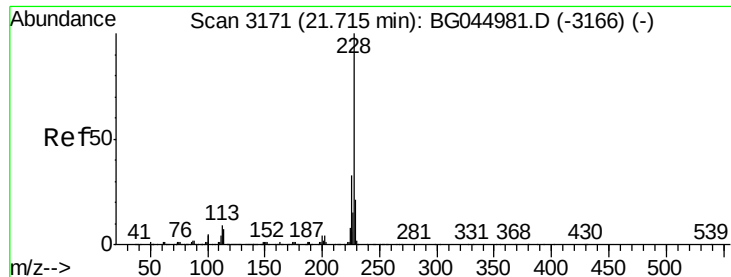


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

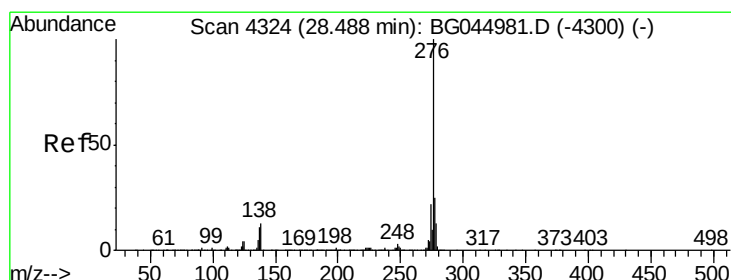
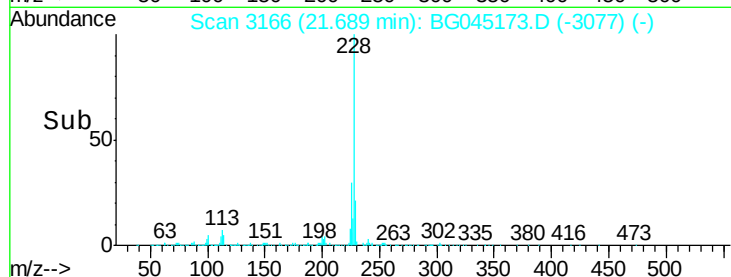
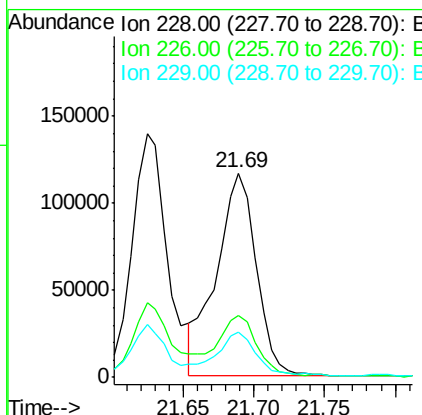
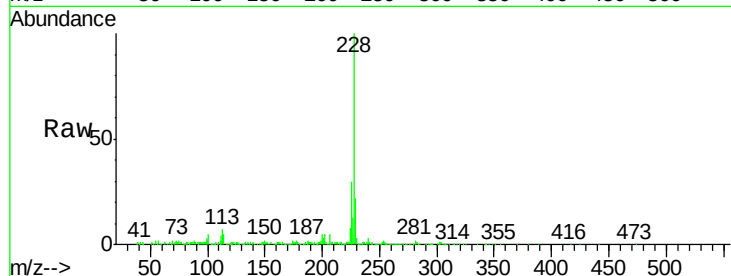




#83
Chrysene
Concen: 8.009 ng
RT: 21.69 min Scan# 3166
Delta R.T. -0.01 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

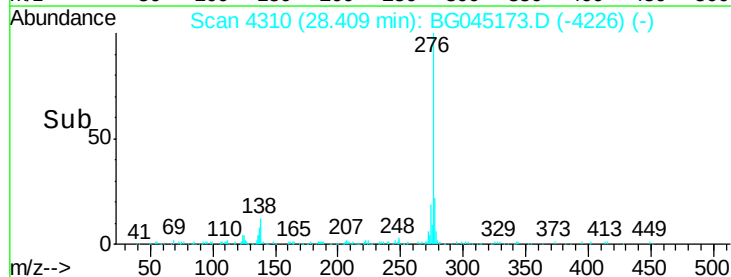
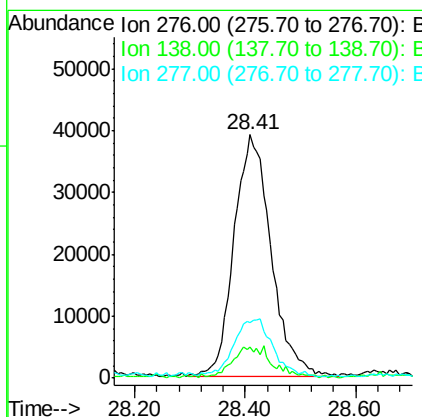
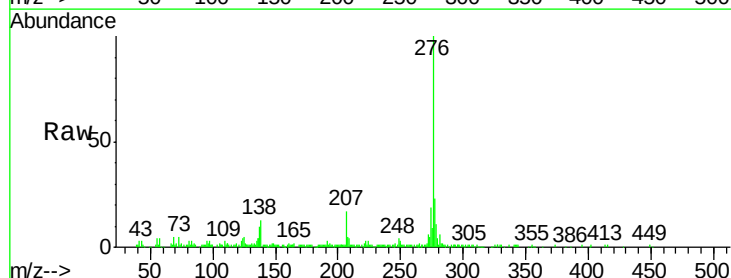
Instrument :
BNA_G
ClientSampleId :

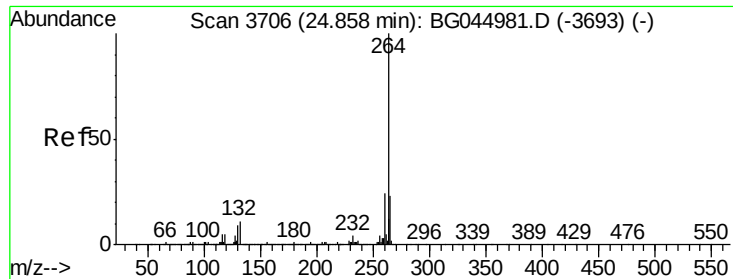
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	26.2	39.4
229	21.8	17.0	25.6



#86
Indeno(1,2,3-cd)pyrene
Concen: 4.721 ng
RT: 28.41 min Scan# 4310
Delta R.T. -0.04 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.0	9.6	14.4#
277	0.0	20.6	31.0#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.82 min Scan# 3699

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

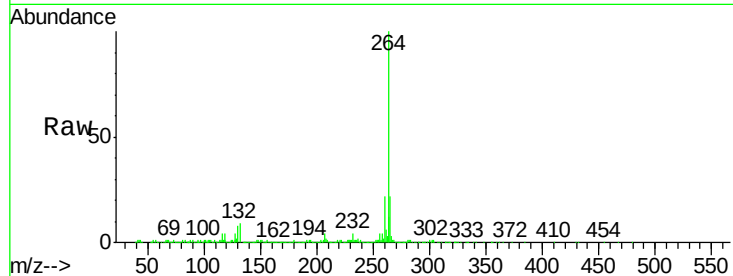
Tot Ion:264 Resp: 492905

Ion Ratio Lower Upper

264 100

260 22.0 19.2 28.8

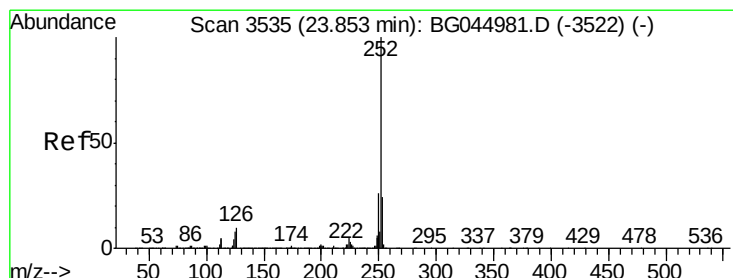
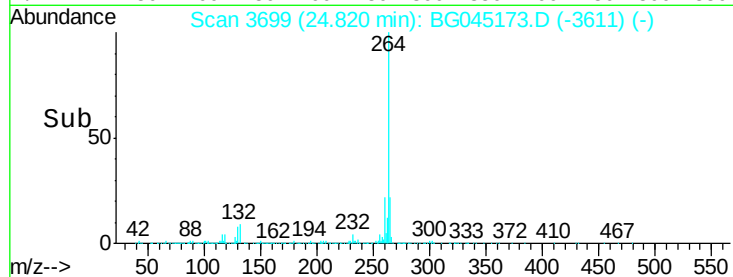
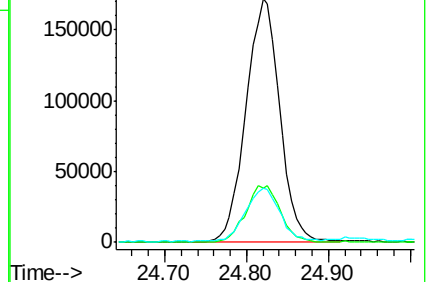
265 22.5 19.0 28.4



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: 11.612 ng

RT: 23.82 min Scan# 3528

Delta R.T. -0.01 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

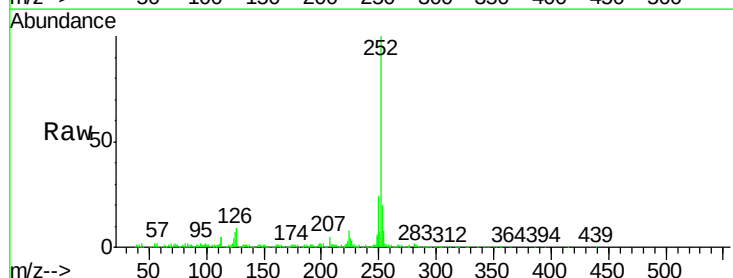
Tgt Ion:252 Resp: 358533

Ion Ratio Lower Upper

252 100

253 20.1 18.8 28.2

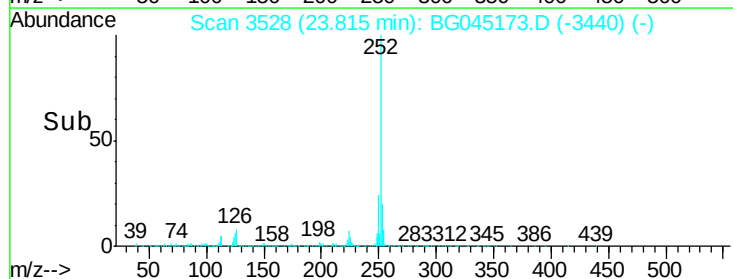
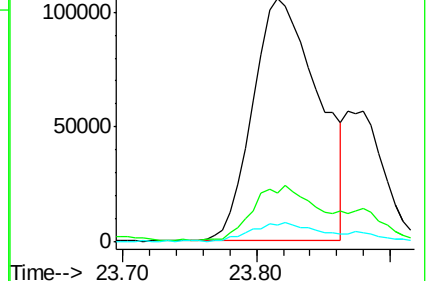
125 7.0 6.2 9.4

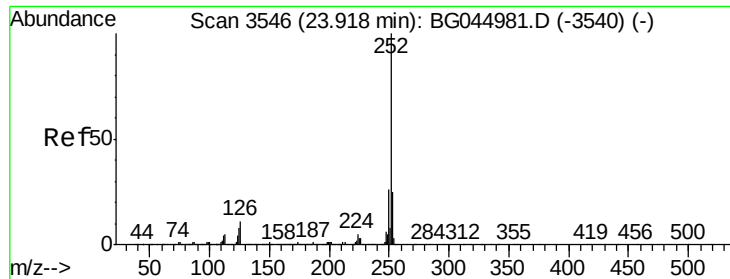


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

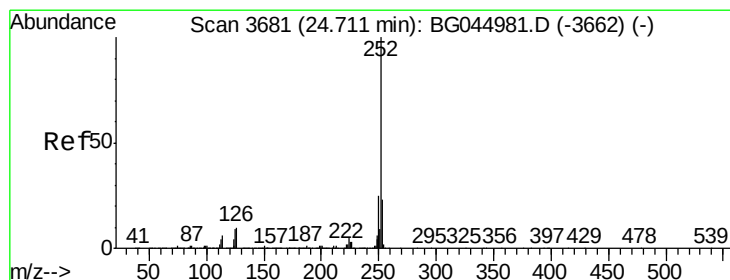
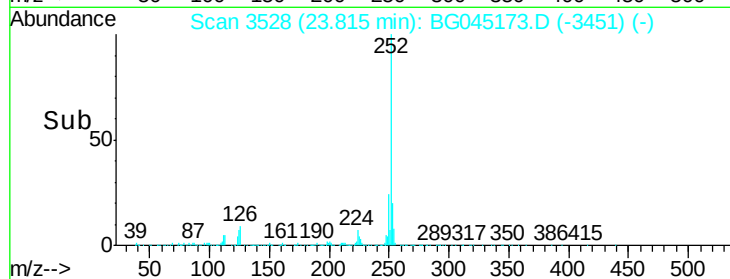
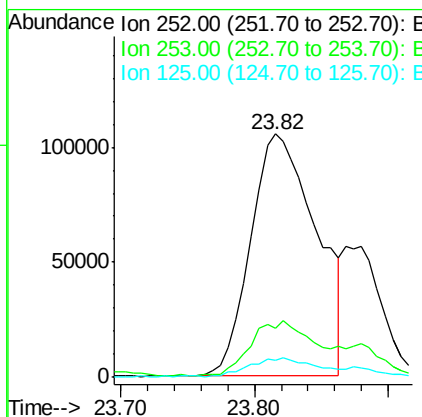
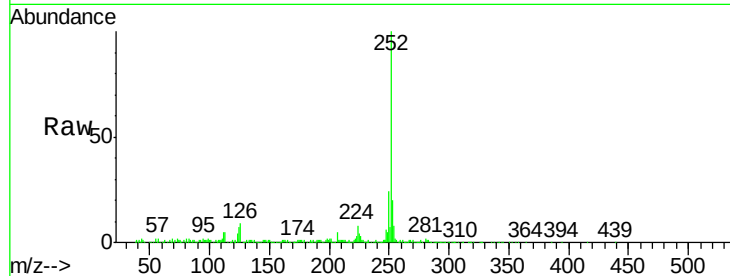




#89
Benzo(k)fluoranthene
Concen: 12.211 ng
RT: 23.82 min Scan# 3528
Delta R.T. -0.08 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

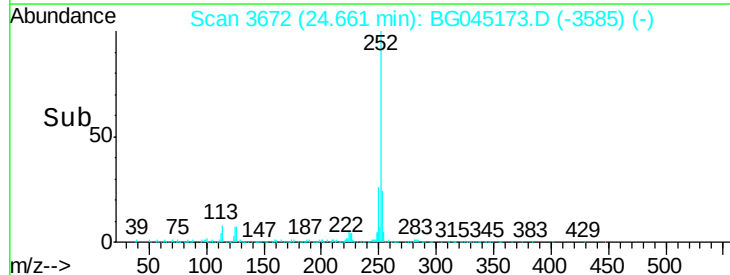
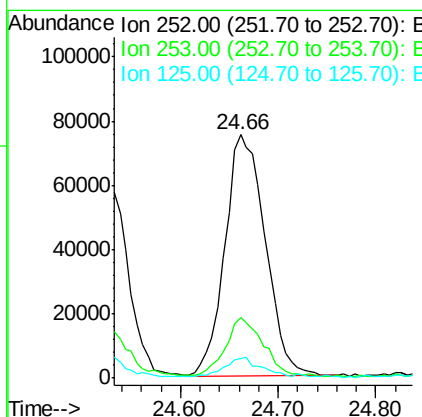
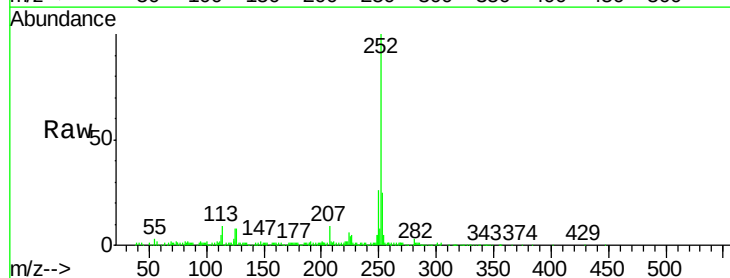
Instrument :
BNA_G
ClientSampleId :

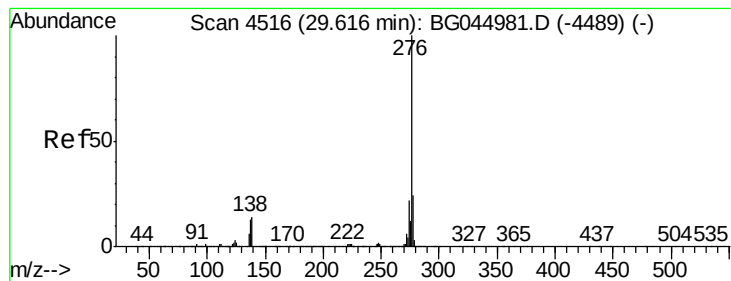
Tot Ion	Ratio	Lower	Upper
252	100		
253	20.1	19.2	28.8
125	7.0	5.9	8.9



#90
Benzo(a)pyrene
Concen: 7.372 ng
RT: 24.66 min Scan# 3672
Delta R.T. -0.02 min
Lab File: BG045173.D
Acq: 24 Apr 2020 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.3	27.5
125	7.9	7.0	10.6





#92

Benzo(a,h,i)perylene

Concen: 5.962 ng

RT: 29.54 min Scan# 4502

Delta R.T. -0.03 min

Lab File: BG045173.D

Acq: 24 Apr 2020 23:03

Instrument :

BNA_G

ClientSampleId :

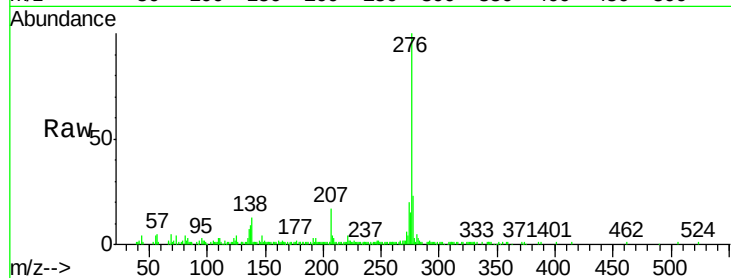
Tot Ion:276 Resp: 175581

Ion Ratio Lower Upper

276 100

277 23.5 19.3 28.9

138 13.5 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

