

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG011420\
 Data File : BG044048.D
 Acq On : 14 Jan 2020 22:42
 Operator : JU
 Sample : L1004-07 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jan 14 23:52:33 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 31 13:32:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.95	152	152213	20.00	ng	-0.01
21) Naphthalene-d8	10.75	136	625500	20.00	ng	-0.02
39) Acenaphthene-d10	14.58	164	367583	20.00	ng	-0.02
64) Phenanthrene-d10	17.32	188	699817	20.00	ng	-0.01
76) Chrysene-d12	21.58	240	592741	20.00	ng	-0.01
87) Perylene-d12	24.73	264	676893	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	419253	50.57	ng	0.00
7) Phenol-d6	7.12	99	580928	50.13	ng	0.00
23) Nitrobenzene-d5	9.10	82	333463	28.52	ng	-0.02
42) 2,4,6-Tribromophenol	16.07	330	174256	45.30	ng	-0.02
45) 2-Fluorobiphenyl	13.21	172	712582	35.12	ng	-0.02
79) Terphenyl-d14	19.94	244	866246	26.40	ng	-0.01

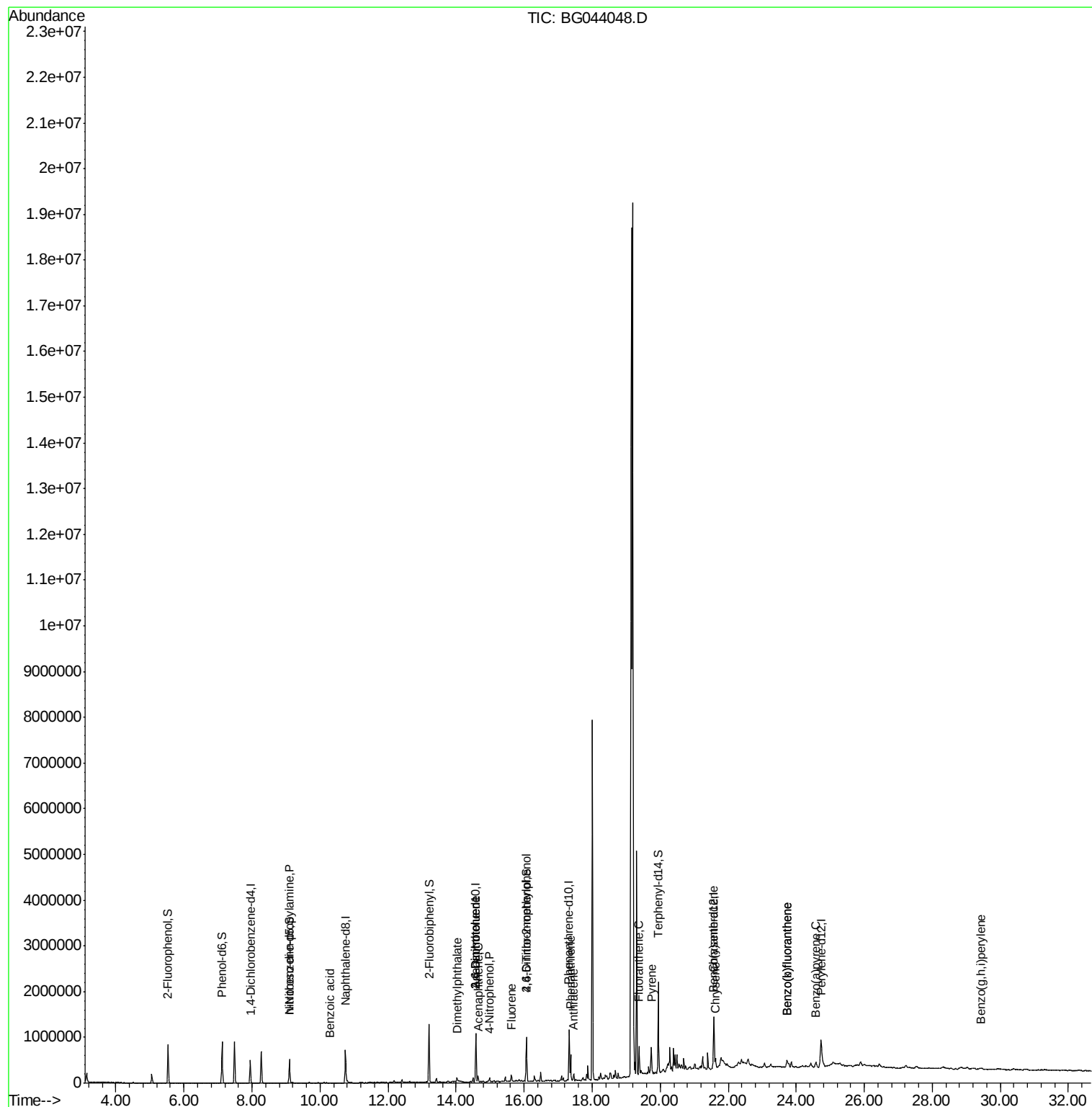
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	9.10	70	45392	5.260	ng	# 77
32) Benzoic acid	10.30	122	60	6.270	ng	# 1
50) Dimethylphthalate	14.03	163	67393	2.582	ng	# 94
51) 2,6-Dinitrotoluene	14.58	165	49114	8.326	ng	# 26
52) Acenaphthene	14.65	154	46317	2.158	ng	95
56) 4-Nitrophenol	14.98	139	21759	4.239	ng	# 12
57) 2,4-Dinitrotoluene	14.58	165	49114	6.119	ng	# 26
58) Fluorene	15.63	166	72351	3.089	ng	99
65) 4,6-Dinitro-2-methylphenol	16.07	198	697	4.565	ng	# 1
71) Phenanthrene	17.37	178	360660	10.745	ng	94
72) Anthracene	17.46	178	99521	3.000	ng	93
75) Fluoranthene	19.38	202	375653	9.786	ng	93
78) Pyrene	19.74	202	337256	8.717	ng	93
81) Benzo(a)anthracene	21.56	228	175548	4.776	ng	97
83) Chrysene	21.63	228	166333	4.763	ng	95
88) Benzo(b)fluoranthene	23.73	252	197476	4.935	ng	# 96
89) Benzo(k)fluoranthene	23.73	252	197476	5.190	ng	97
90) Benzo(a)pyrene	24.57	252	151050	3.999	ng	98
92) Benzo(a,h,i)perylene	29.43	276	75919	2.015	ng	# 92

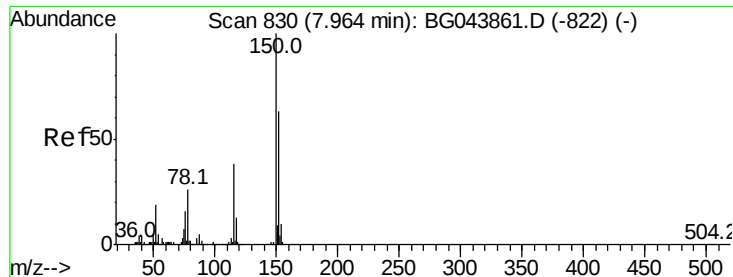
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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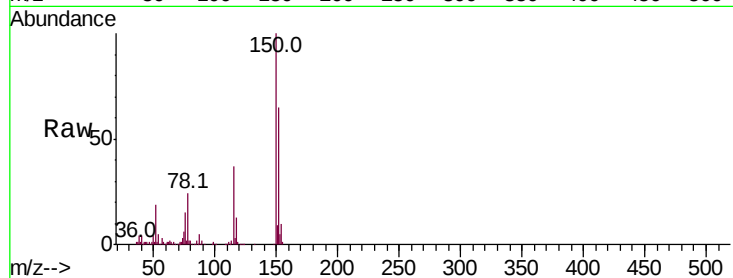


#1

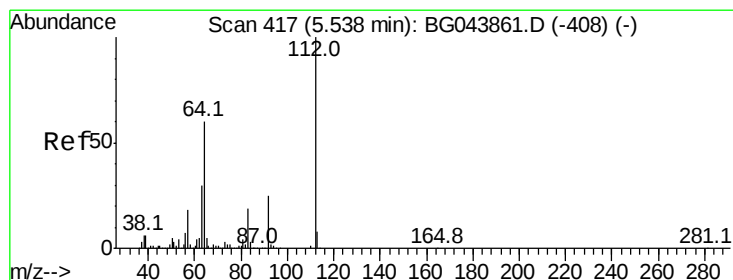
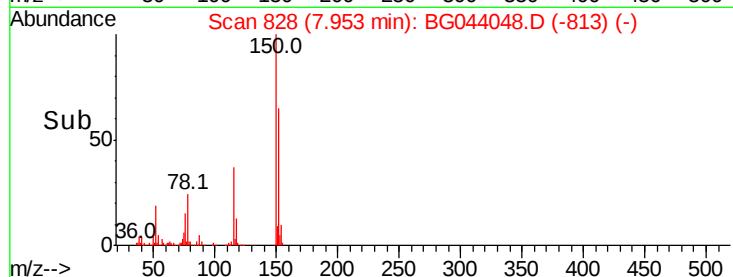
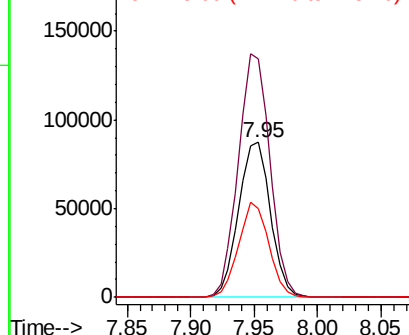
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.95 min Scan# 828
Delta R.T. -0.01 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 152213
Ion Ratio Lower Upper
152 100
150 153.6 127.0 190.4
115 57.0 47.8 71.8



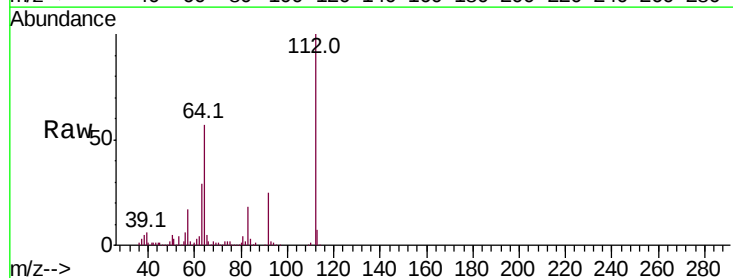
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



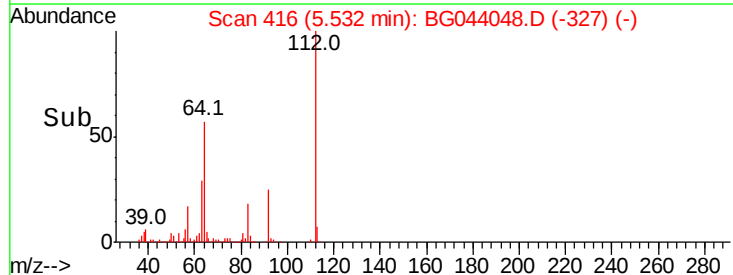
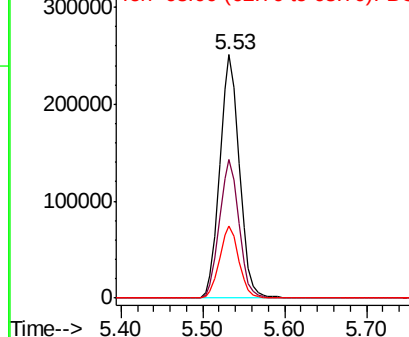
#5

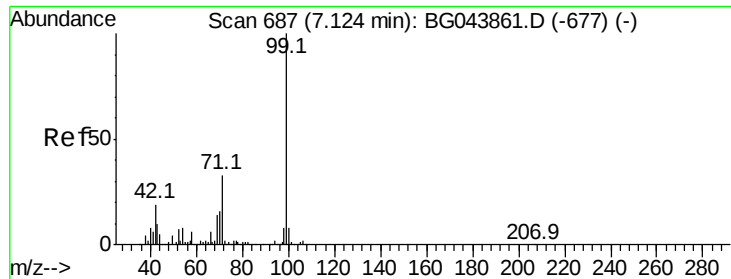
2-Fluorophenol
Concen: 50.574 ng
RT: 5.53 min Scan# 416
Delta R.T. -0.01 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Tgt Ion:112 Resp: 419253
Ion Ratio Lower Upper
112 100
64 57.1 47.8 71.6
63 29.5 24.3 36.5



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: 50.133 ng

RT: 7.12 min Scan# 686

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

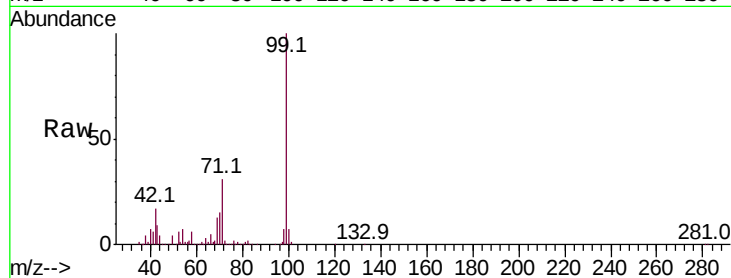
Tot Ion: 99 Resp: 580928

Ion Ratio Lower Upper

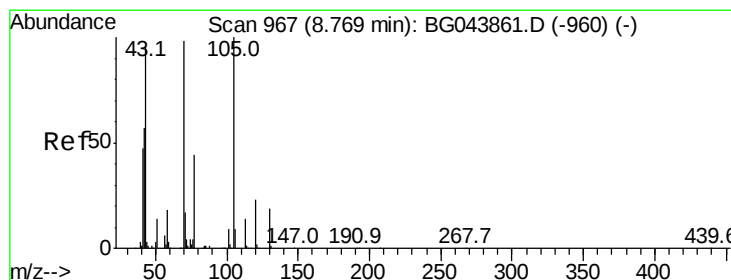
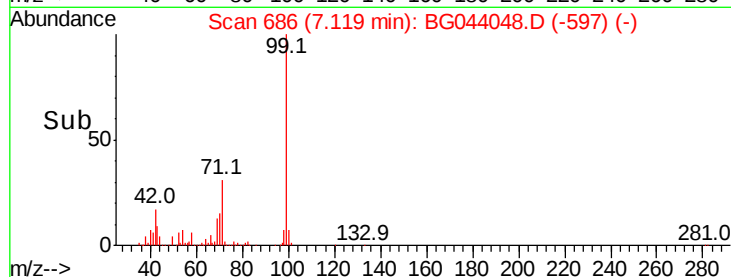
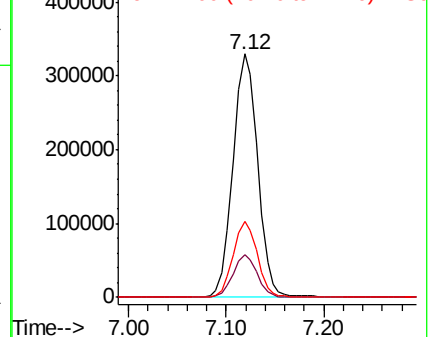
99 100

42 17.3 14.9 22.3

71 31.1 26.4 39.6



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



#19

n-Nitroso-di-n-propylamine

Concen: 5.260 ng

RT: 9.10 min Scan# 1024

Delta R.T. 0.34 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Tgt Ion: 70 Resp: 45392

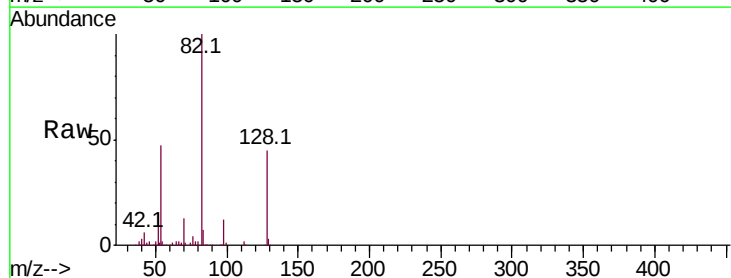
Ion Ratio Lower Upper

70 100

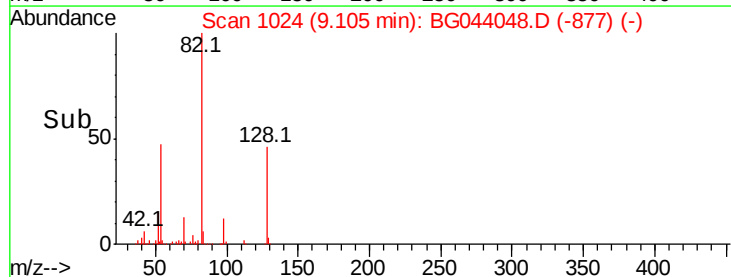
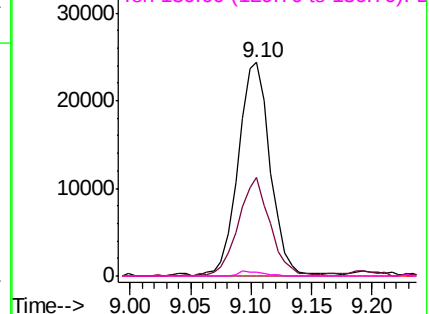
42 46.0 47.0 70.4#

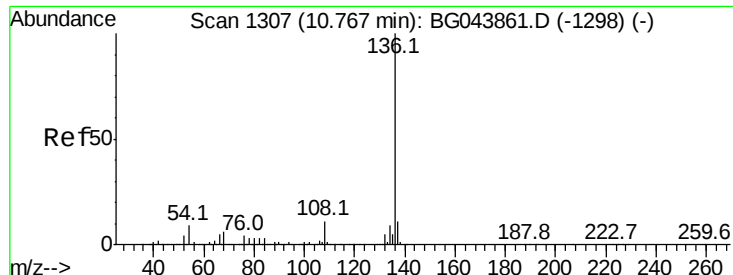
101 0.0 7.2 10.8#

130 2.1 15.6 23.4#



Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

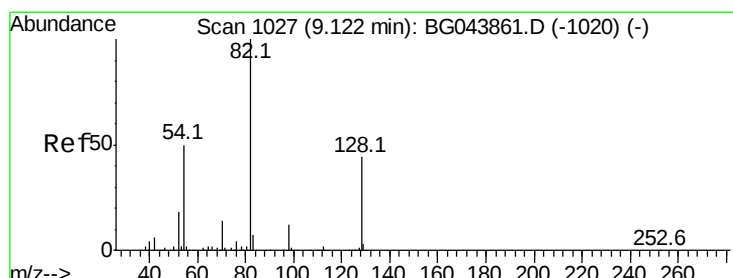
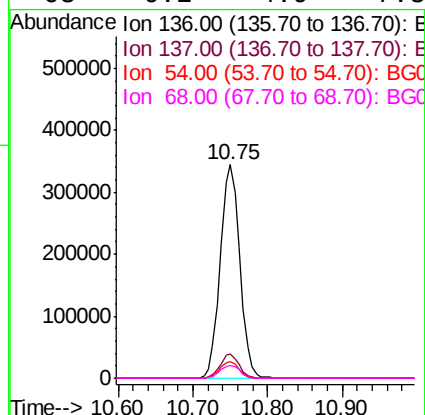
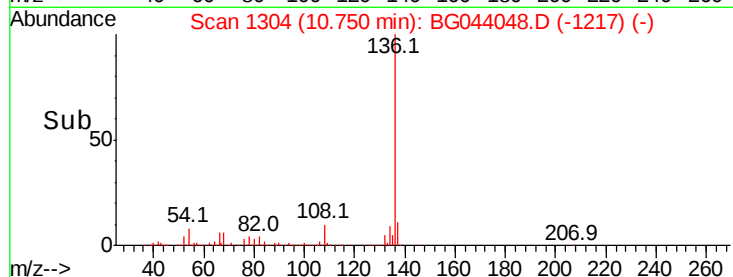
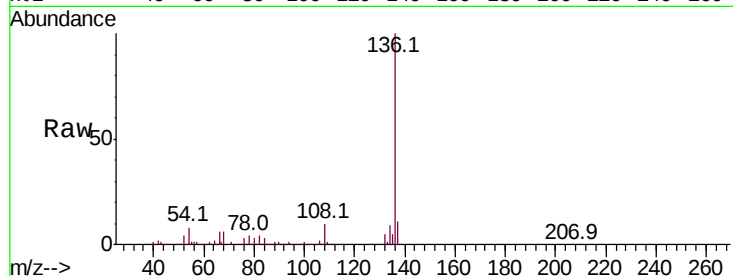




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.75 min Scan# 1304
Delta R.T. -0.02 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

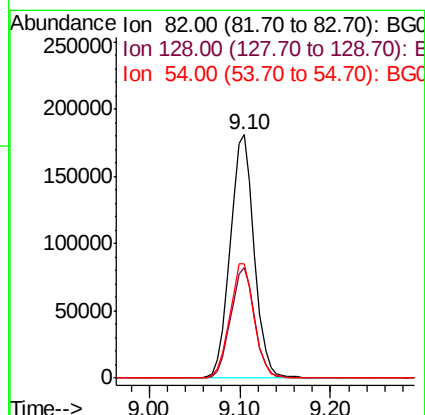
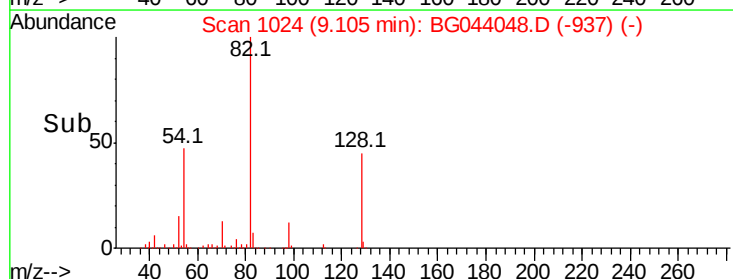
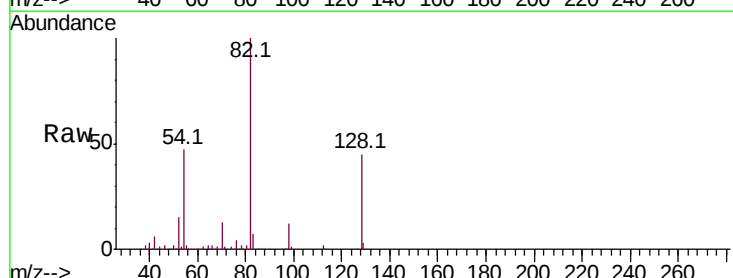
Instrument :
BNA_G
ClientSampleId :

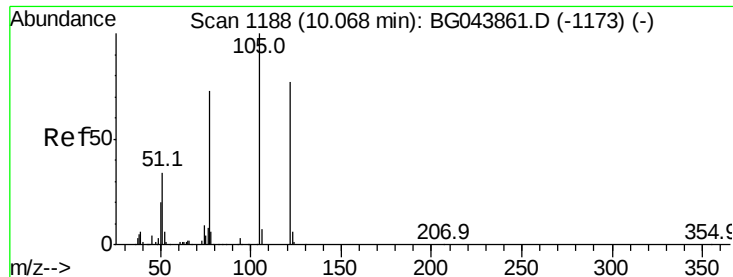
Tot Ion:136	Resp: 625500
Ion Ratio	Lower Upper
136 100	
137 11.4	8.8 13.2
54 7.9	7.0 10.4
68 6.2	4.9 7.3



#23
Nitrobenzene-d5
Concen: 28.519 ng
RT: 9.10 min Scan# 1024
Delta R.T. -0.02 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Tgt	Ion: 82	Resp:	333463
Ion	Ratio	Lower	Upper
82	100		
128	45.5	35.1	52.7
54	47.0	40.1	60.1





#32

Benzoic acid

Concen: 6.270 ng

RT: 10.30 min Scan# 1227

Delta R.T. 0.23 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

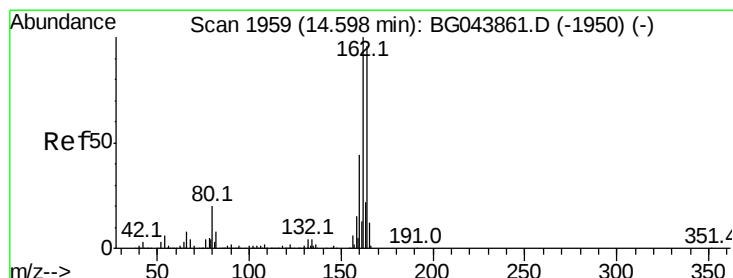
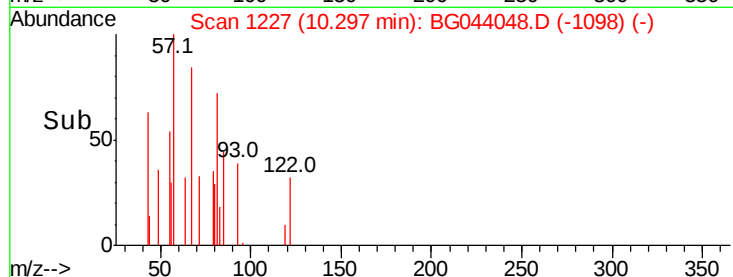
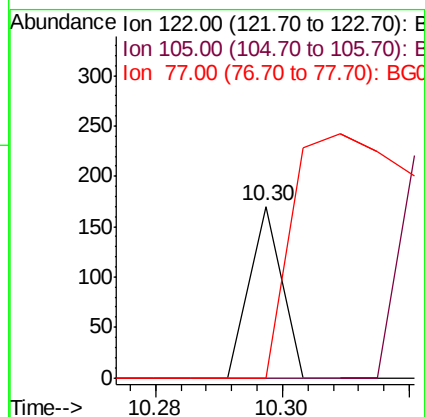
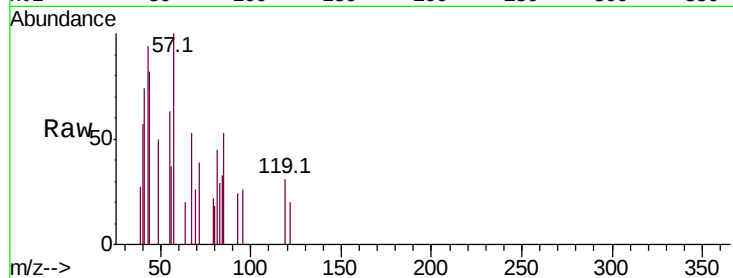
Tot Ion:122 Resp: 60

Ion Ratio Lower Upper

122 100

105 0.0 106.4 146.4#

77 0.0 74.6 114.6#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.58 min Scan# 1956

Delta R.T. -0.02 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

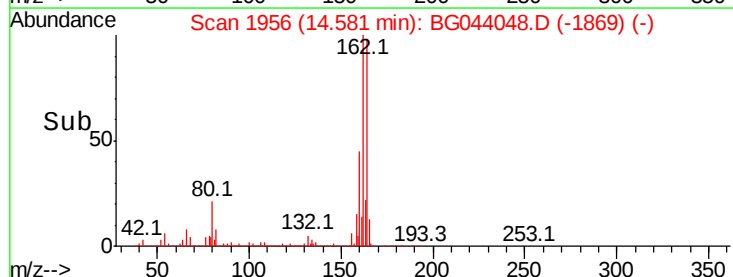
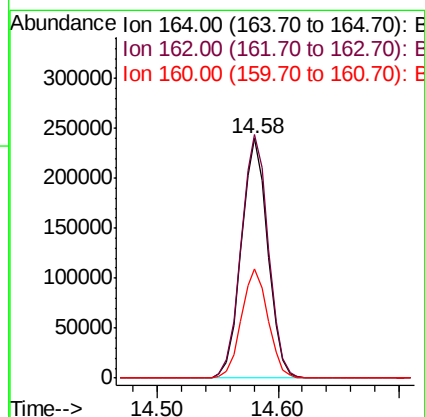
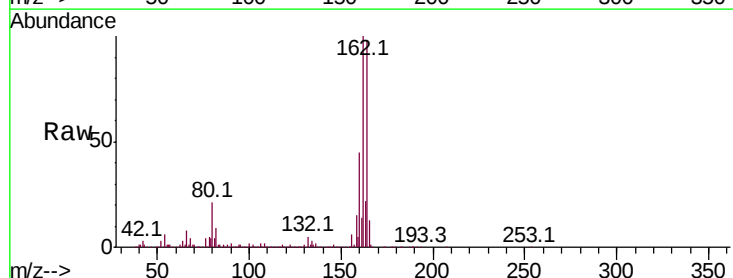
Tgt Ion:164 Resp: 367583

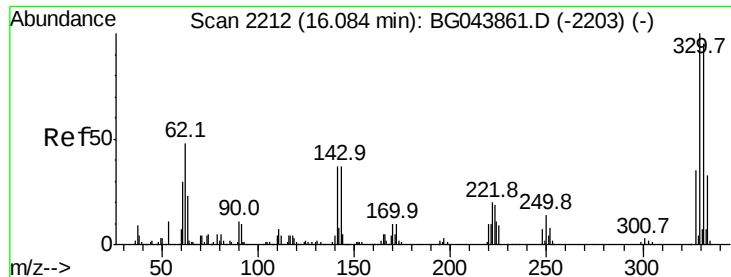
Ion Ratio Lower Upper

164 100

162 101.6 83.0 124.4

160 45.6 36.1 54.1

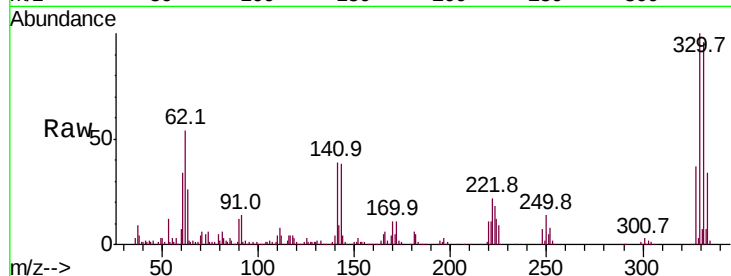




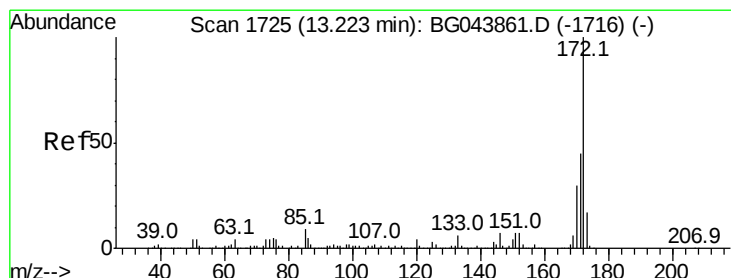
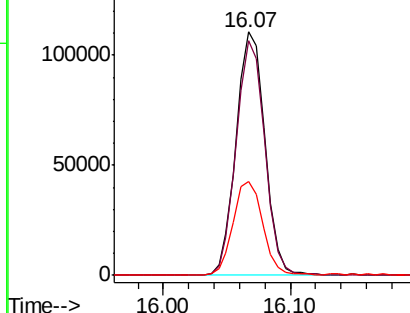
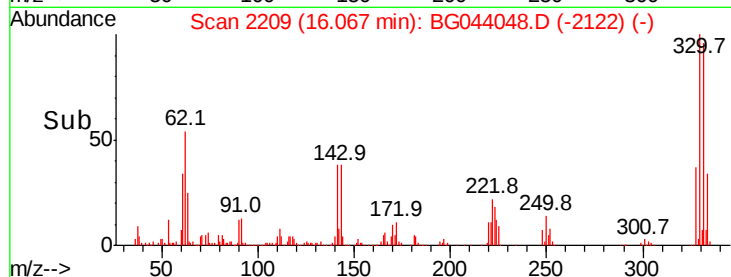
#42
 2,4,6-Tribromophenol
 Concen: 45.300 ng
 RT: 16.07 min Scan# 2209
 Delta R.T. -0.02 min
 Lab File: BG044048.D
 Acq: 14 Jan 2020 22:42

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.2	115.8
141	39.0	33.1	49.7

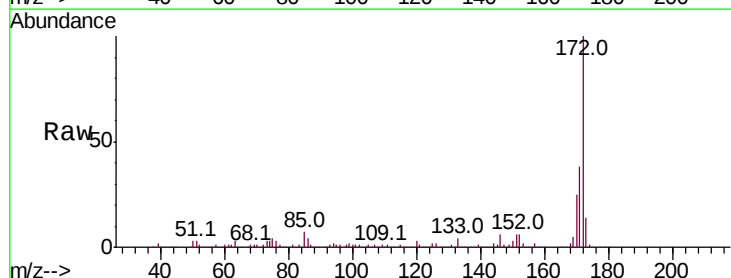


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

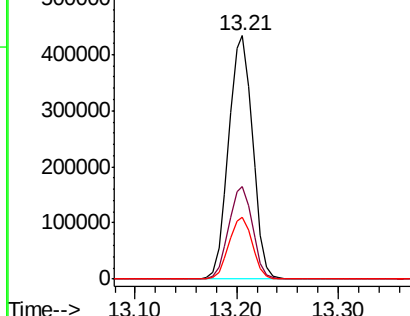
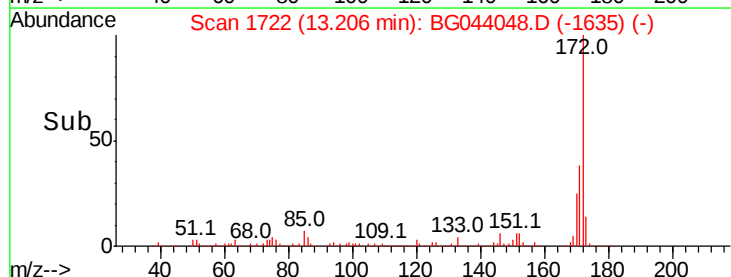


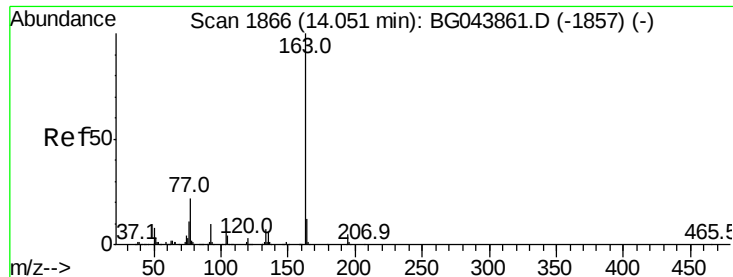
#45
 2-Fluorobiphenyl
 Concen: 35.122 ng
 RT: 13.21 min Scan# 1722
 Delta R.T. -0.02 min
 Lab File: BG044048.D
 Acq: 14 Jan 2020 22:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.1	35.8	53.8
170	25.5	24.2	36.4



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

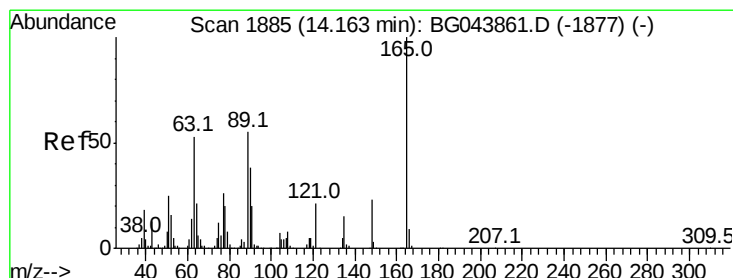
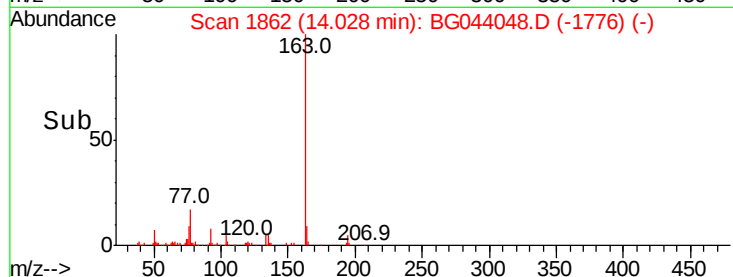
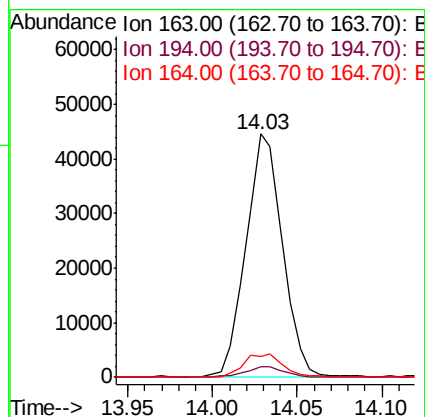
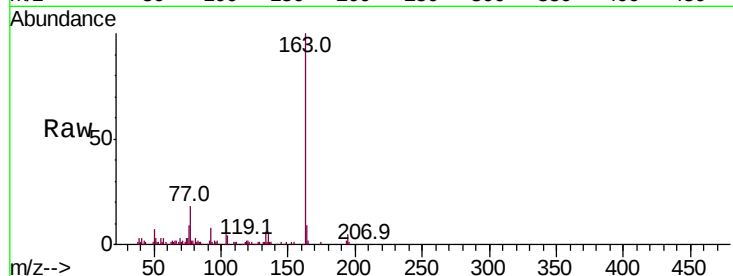




#50
Dimethylphthalate
Concen: 2.582 ng
RT: 14.03 min Scan# 1862
Delta R.T. -0.02 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

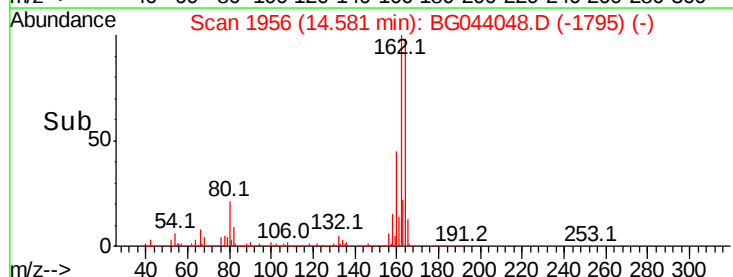
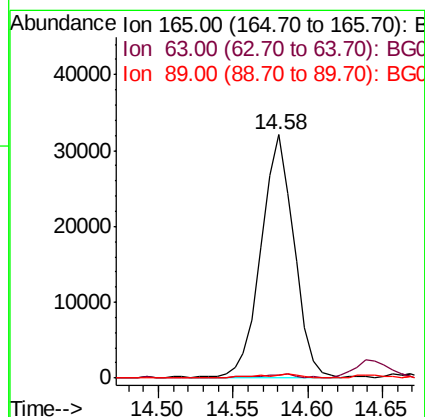
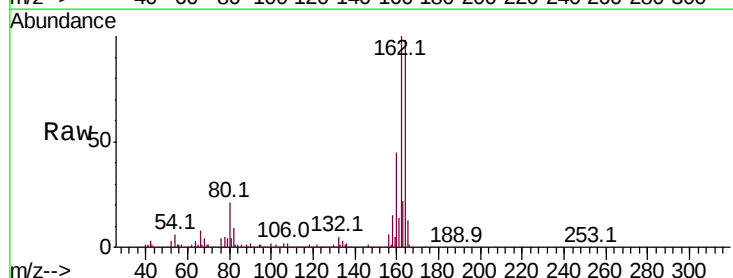
Instrument :
BNA_G
ClientSampleId :

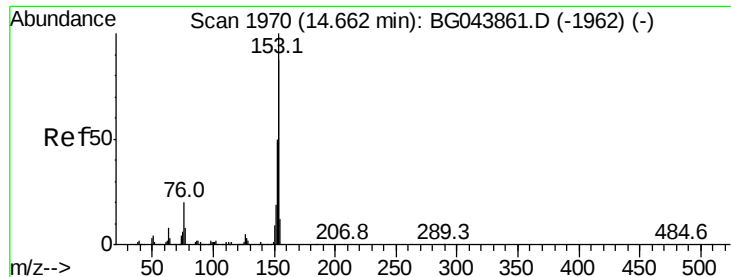
Tot Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.7	5.5
164	8.6	9.3	13.9#



#51
2,6-Dinitrotoluene
Concen: 8.326 ng
RT: 14.58 min Scan# 1956
Delta R.T. 0.42 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	43.1	64.7#
89	1.0	43.8	65.6#





#52

Acenaphthene

Concen: 2.158 ng

RT: 14.65 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

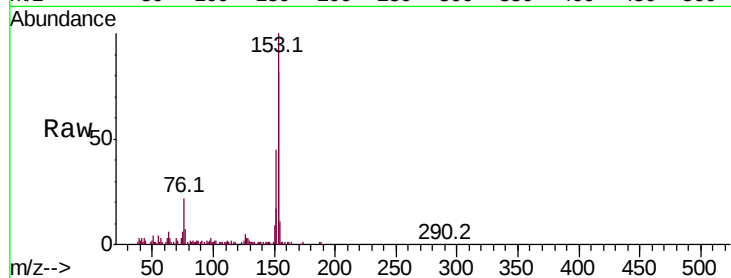
Tot Ion:154 Resp: 46317

Ion Ratio Lower Upper

154 100

153 121.5 91.6 137.4

152 55.1 45.4 68.0

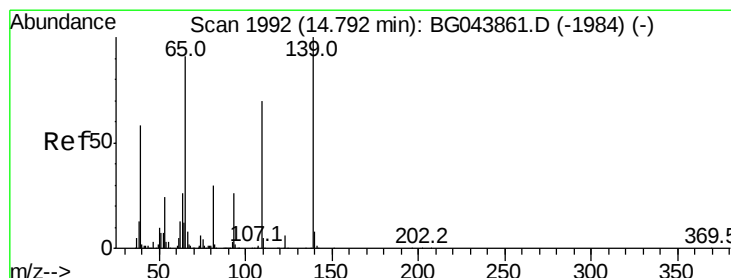
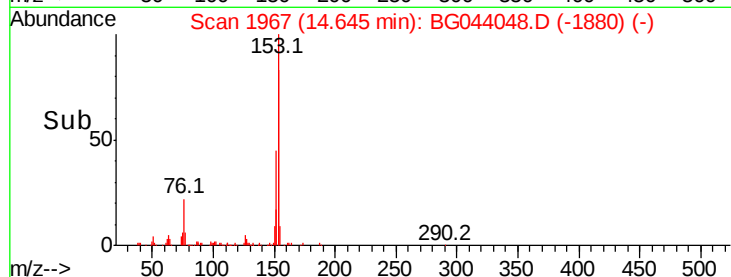
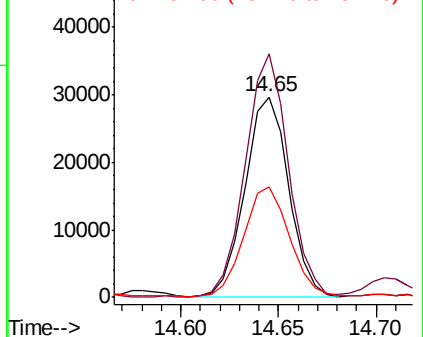


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

4-Nitrophenol

Concen: 4.239 ng

RT: 14.98 min Scan# 2024

Delta R.T. 0.19 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

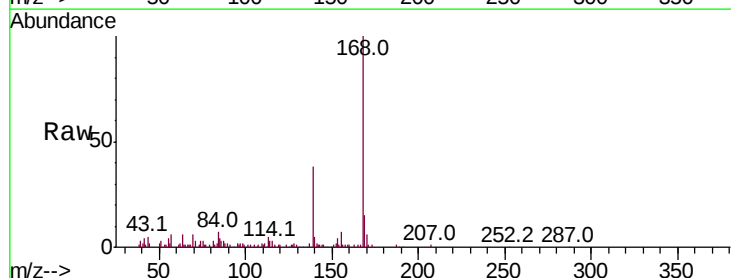
Tgt Ion:139 Resp: 21759

Ion Ratio Lower Upper

139 100

109 4.6 50.4 90.4#

65 1.5 71.4 111.4#

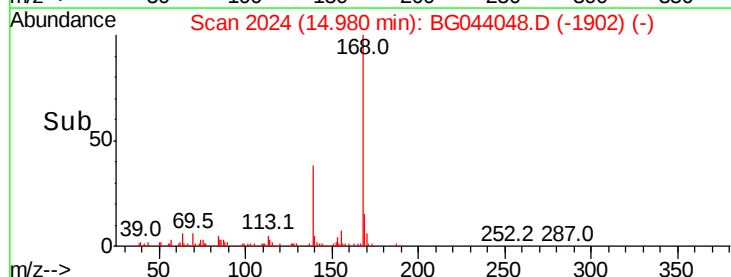
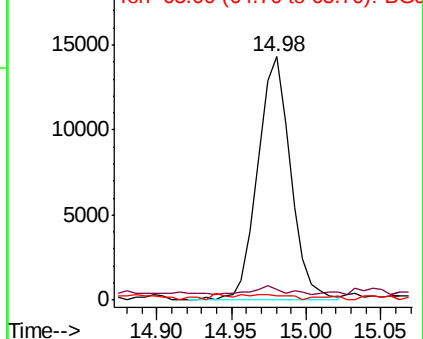


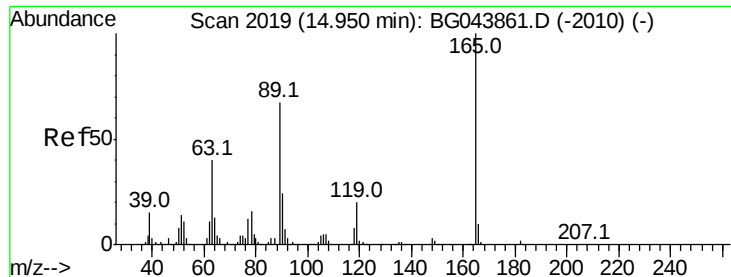
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG

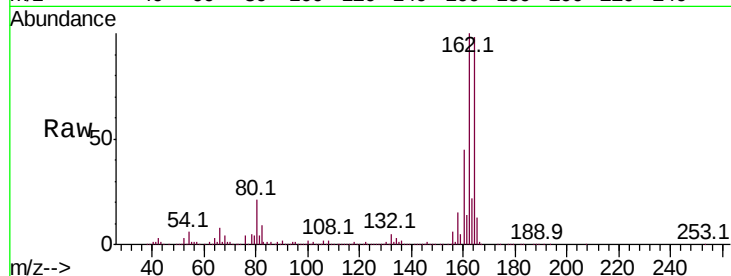




#57
2,4-Dinitrotoluene
Concen: 6.119 ng
RT: 14.58 min Scan# 1956
Delta R.T. -0.37 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	31.9	47.9#
89	1.0	53.8	80.6#
182	1.0	2.0	3.0#



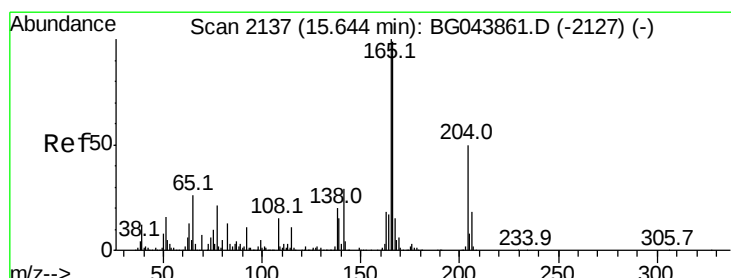
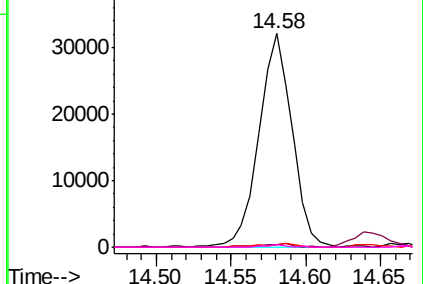
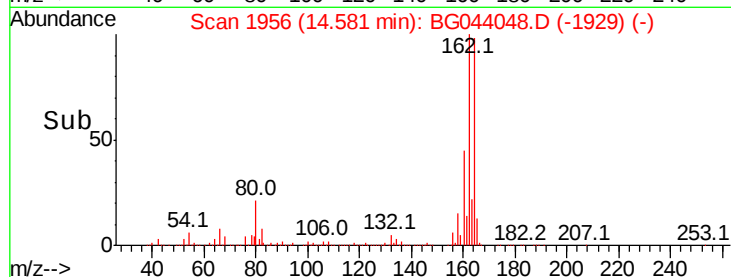
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

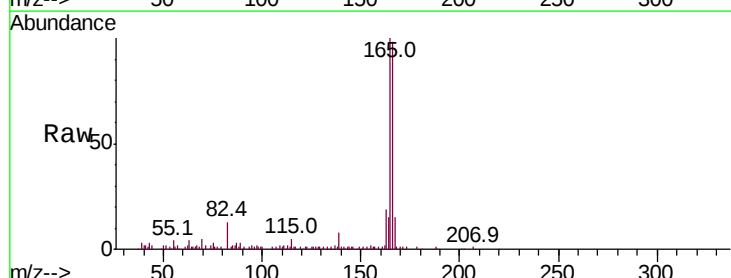
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#58
Fluorene
Concen: 3.089 ng
RT: 15.63 min Scan# 2134
Delta R.T. -0.02 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.0	80.8	121.2
167	15.3	12.1	18.1

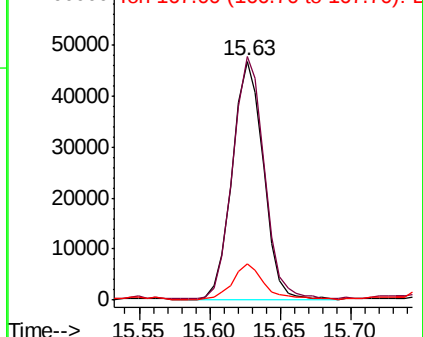
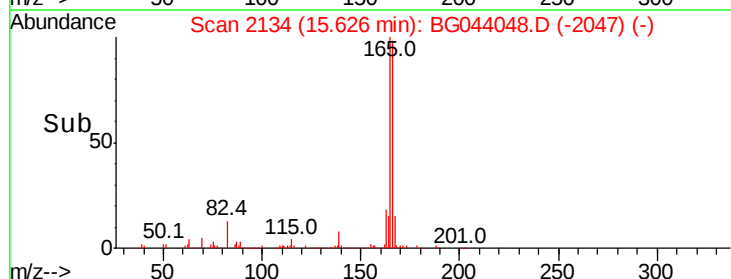


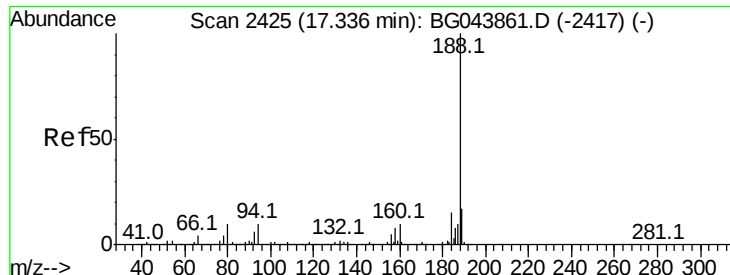
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

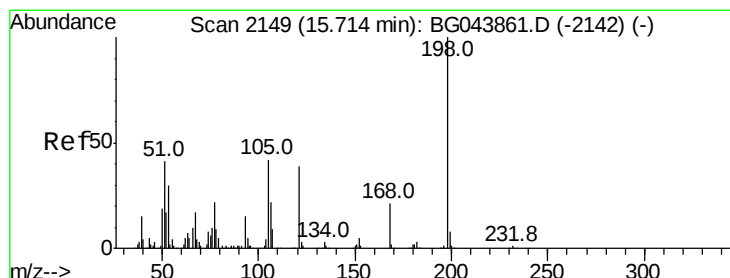
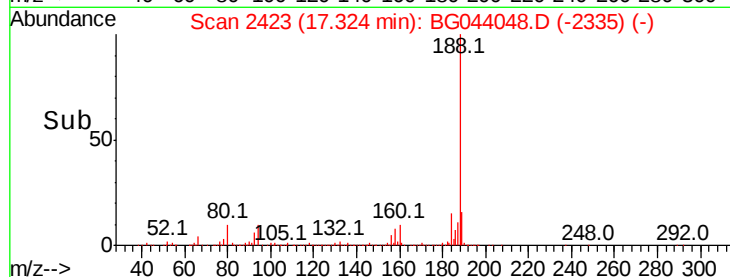
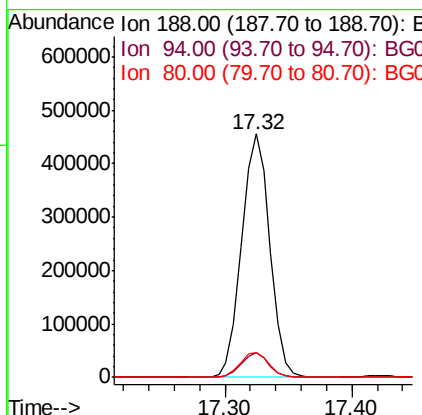
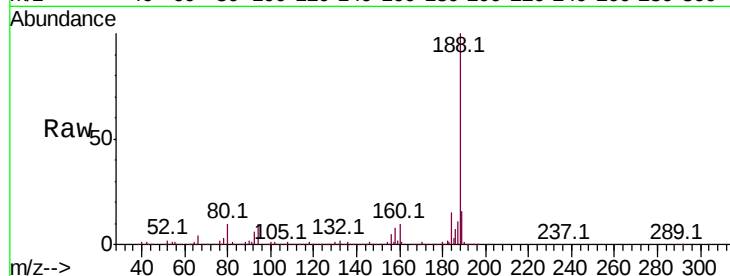




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.32 min Scan# 2423
 Delta R.T. -0.01 min
 Lab File: BG044048.D
 Acq: 14 Jan 2020 22:42

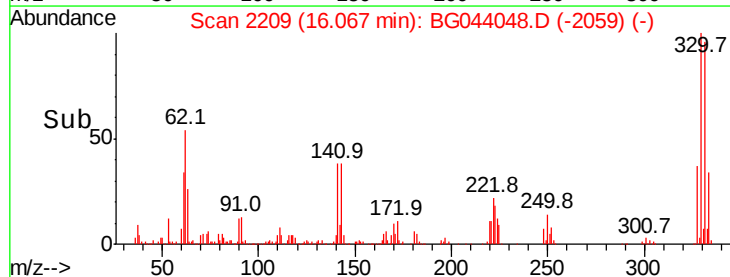
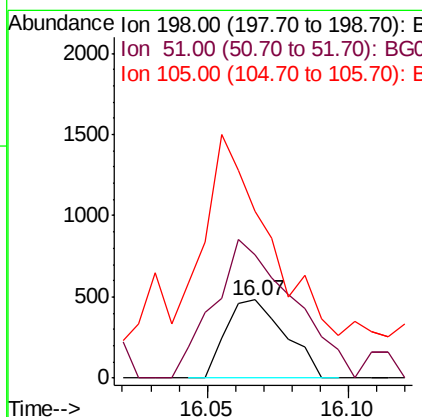
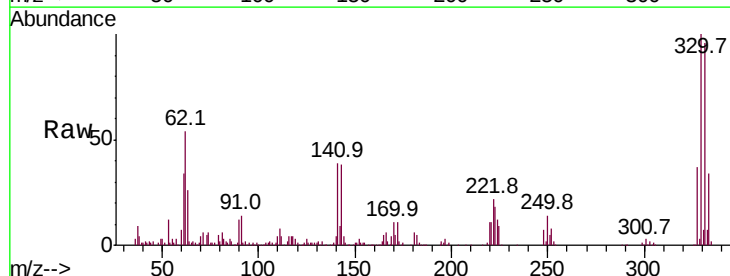
Instrument :
 BNA_G
 ClientSampleId :

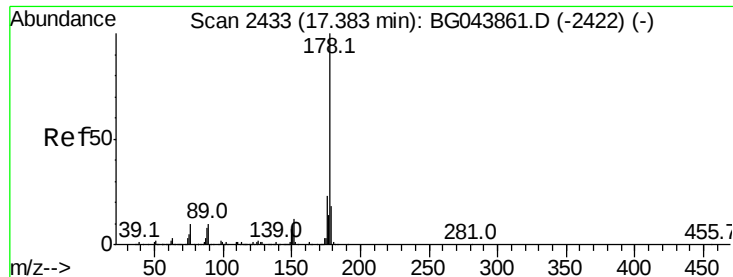
Tot Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.9	11.9
80	10.3	8.2	12.4



#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.565 ng
 RT: 16.07 min Scan# 2209
 Delta R.T. 0.35 min
 Lab File: BG044048.D
 Acq: 14 Jan 2020 22:42

Tgt Ion	Ratio	Lower	Upper
198	100		
51	158.2	22.5	62.5#
105	213.5	22.3	62.3#





#71

Phenanthrene

Concen: 10.745 ng

RT: 17.37 min Scan# 2430

Delta R.T. -0.02 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

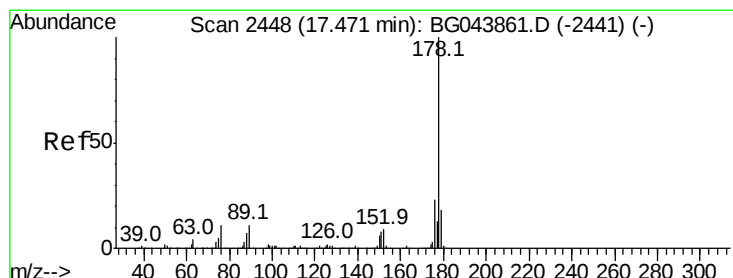
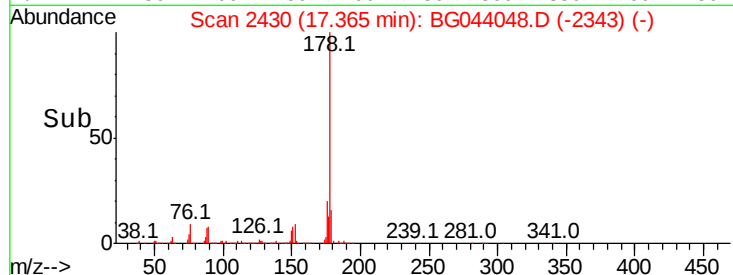
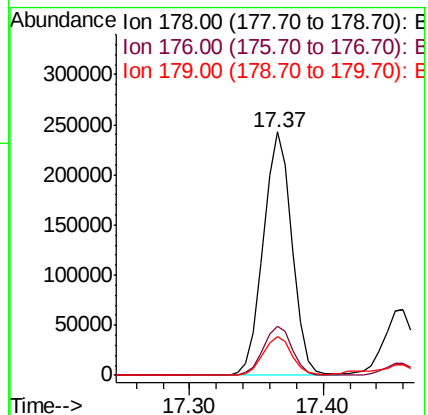
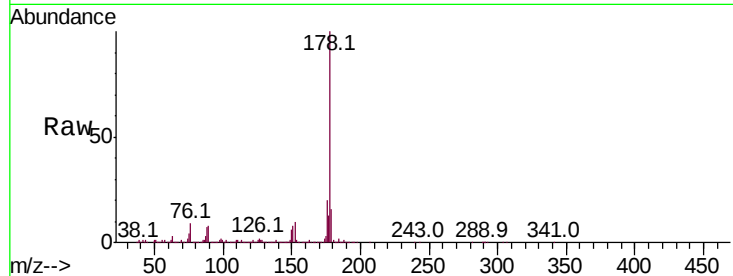
Tot Ion:178 Resp: 360660

Ion Ratio Lower Upper

178 100

176 20.1 18.6 28.0

179 15.8 14.4 21.6



#72

Anthracene

Concen: 3.000 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

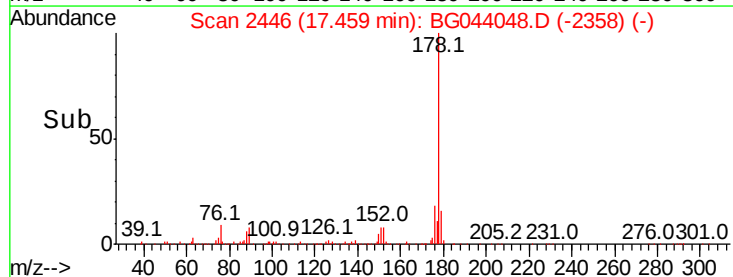
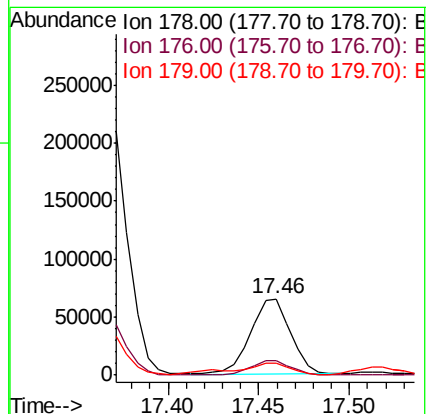
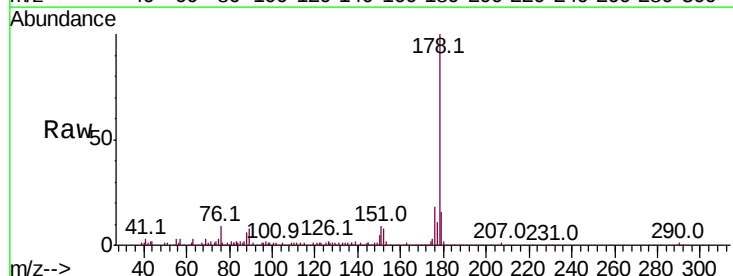
Tgt Ion:178 Resp: 99521

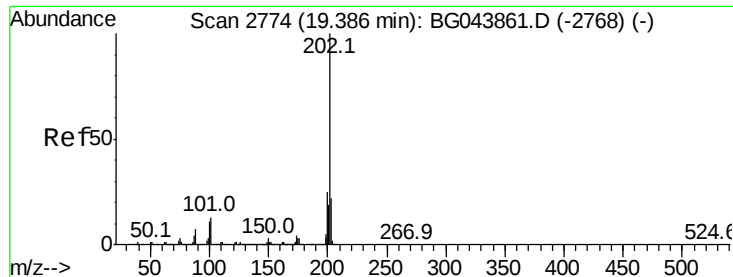
Ion Ratio Lower Upper

178 100

176 18.4 18.3 27.5

179 16.1 14.6 22.0





#75

Fluoranthene

Concen: 9.786 ng

RT: 19.38 min Scan# 2773

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

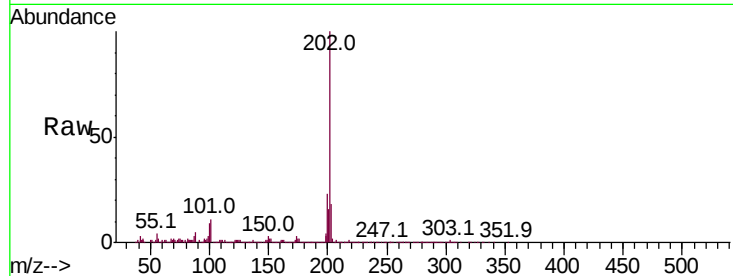
Tot Ion:202 Resp: 375653

Ion Ratio Lower Upper

202 100

101 10.6 0.0 33.3

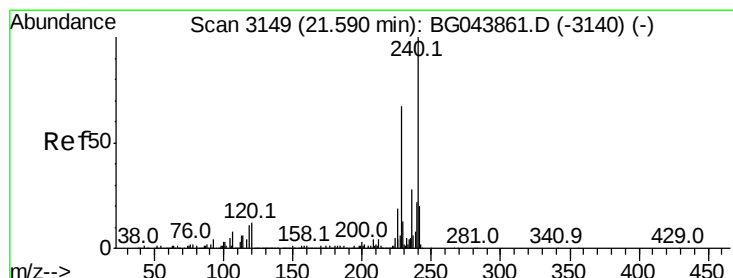
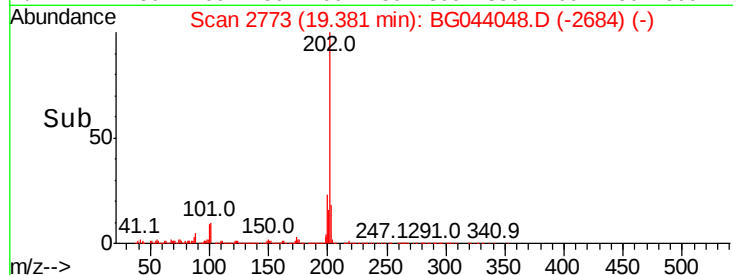
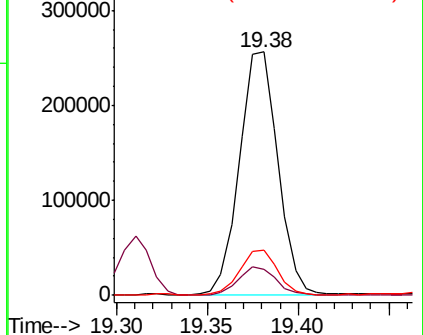
203 18.3 1.6 41.6



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: 21.58 min Scan# 3147

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

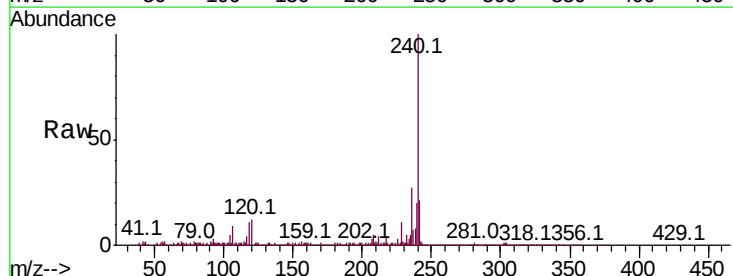
Tgt Ion:240 Resp: 592741

Ion Ratio Lower Upper

240 100

120 12.4 9.6 14.4

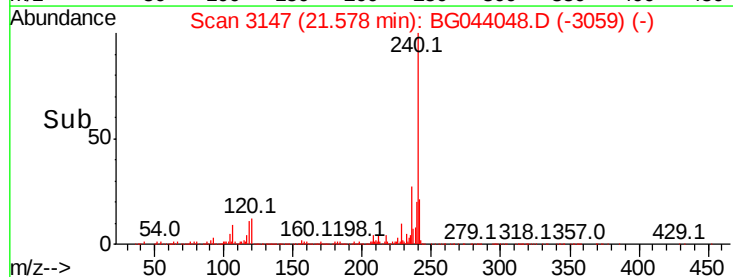
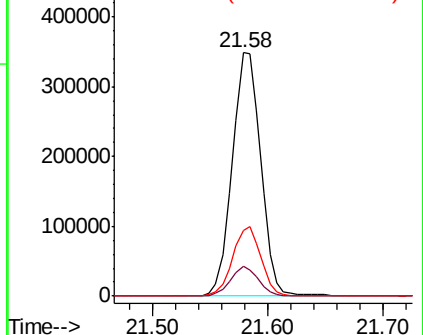
236 27.2 22.2 33.2

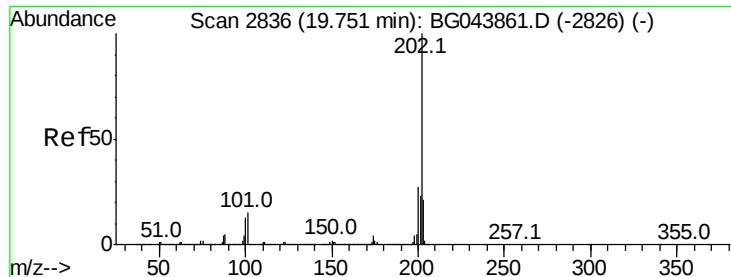


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 8.717 ng

RT: 19.74 min Scan# 2834

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

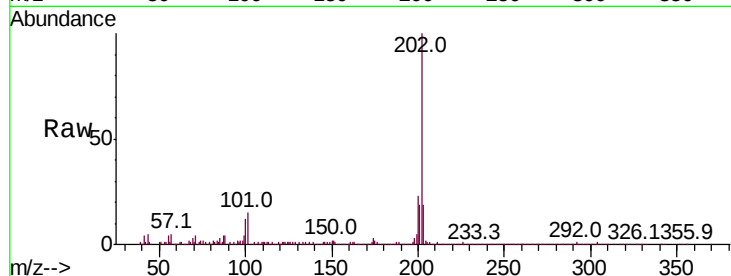
Tot Ion:202 Resp: 337256

Ion Ratio Lower Upper

202 100

200 23.2 21.7 32.5

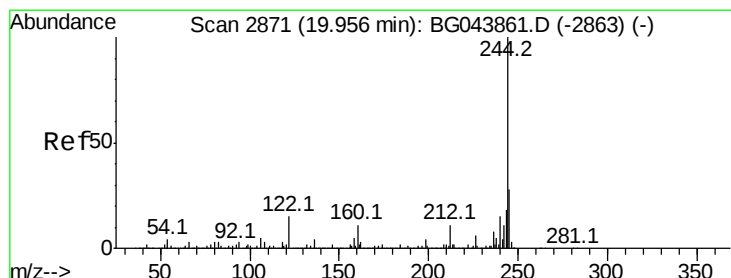
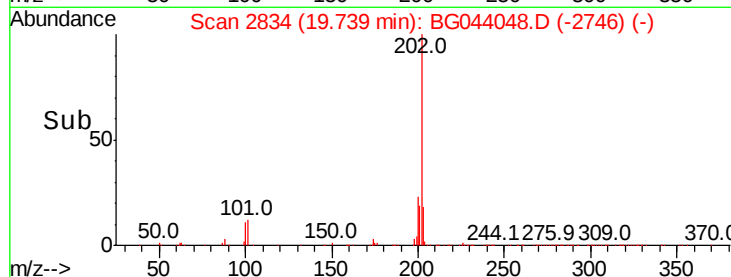
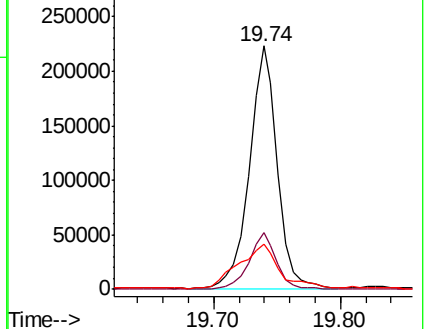
203 18.7 17.0 25.6



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: 26.400 ng

RT: 19.94 min Scan# 2869

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

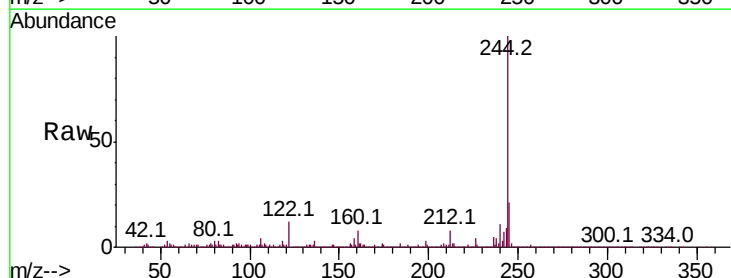
Tgt Ion:244 Resp: 866246

Ion Ratio Lower Upper

244 100

212 8.3 8.6 13.0#

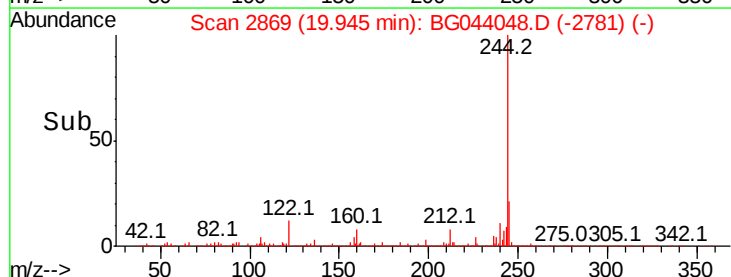
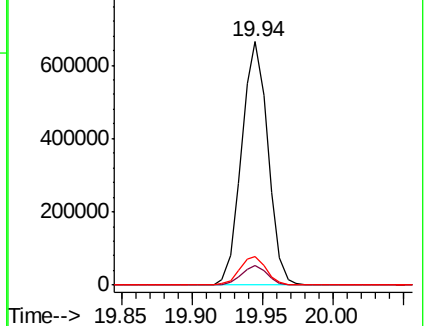
122 11.8 11.9 17.9#

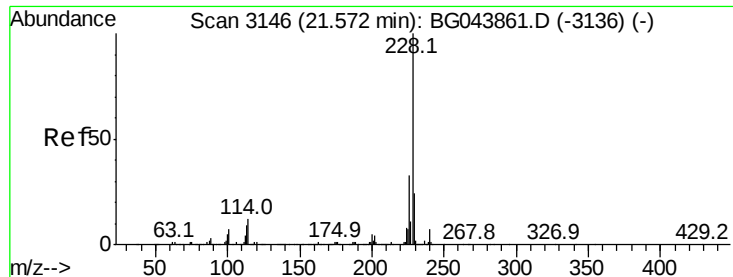


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 4.776 ng

RT: 21.56 min Scan# 3144

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampled :

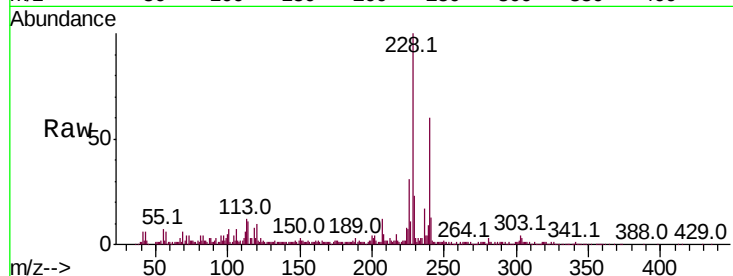
Tot Ion:228 Resp: 175548

Ion Ratio Lower Upper

228 100

226 30.6 26.2 39.4

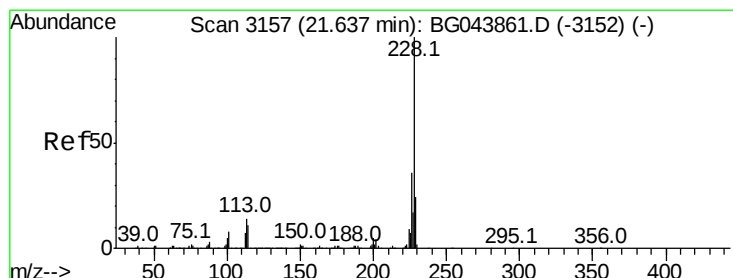
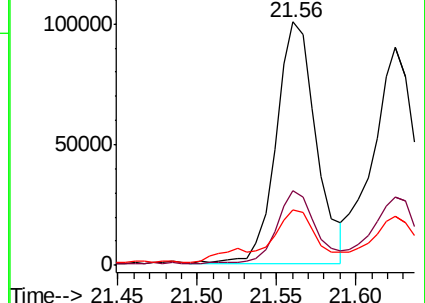
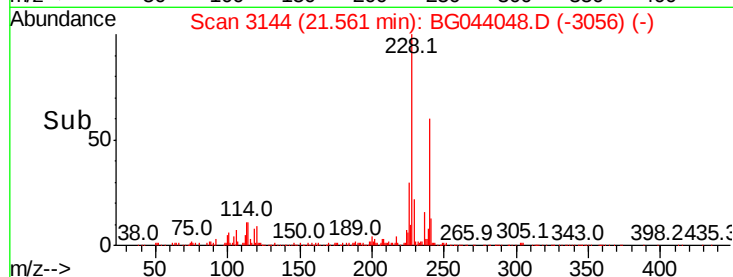
229 22.9 18.9 28.3



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: 4.763 ng

RT: 21.63 min Scan# 3155

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

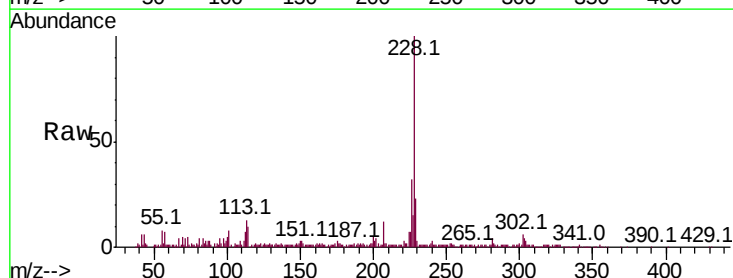
Tgt Ion:228 Resp: 166333

Ion Ratio Lower Upper

228 100

226 31.6 28.8 43.2

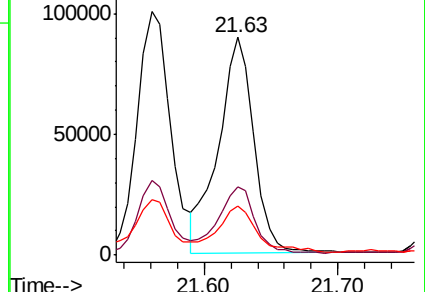
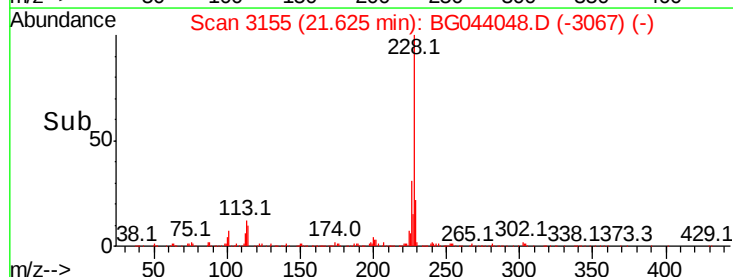
229 22.7 19.0 28.6

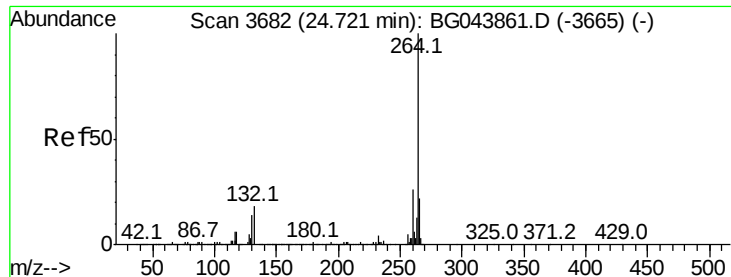


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.73 min Scan# 3683

Delta R.T. 0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

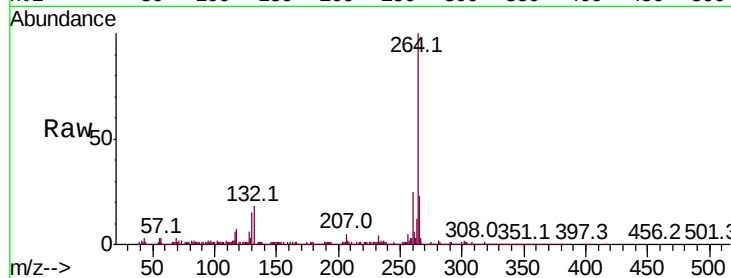
Tot Ion:264 Resp: 676893

Ion Ratio Lower Upper

264 100

260 24.8 20.4 30.6

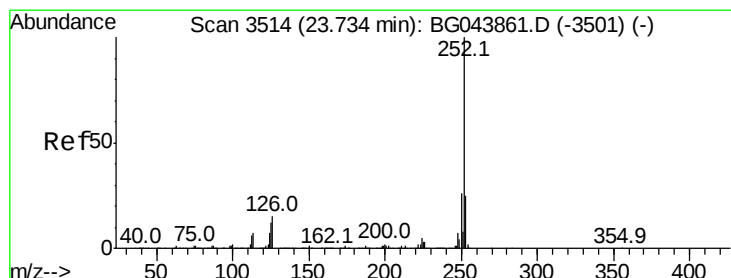
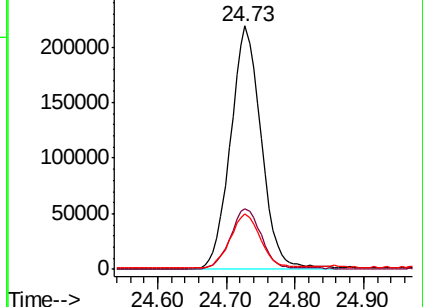
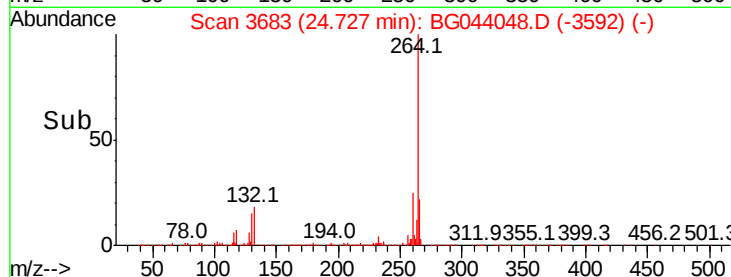
265 22.9 17.4 26.2



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: 4.935 ng

RT: 23.73 min Scan# 3513

Delta R.T. -0.01 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

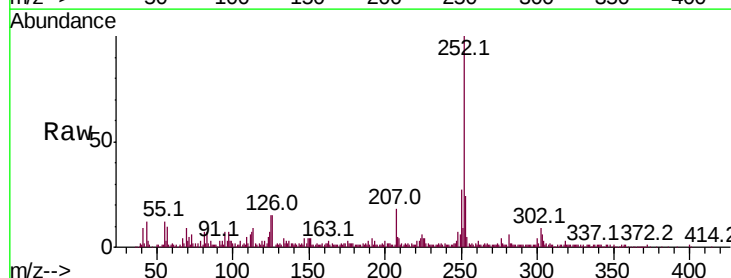
Tgt Ion:252 Resp: 197476

Ion Ratio Lower Upper

252 100

253 23.6 19.7 29.5

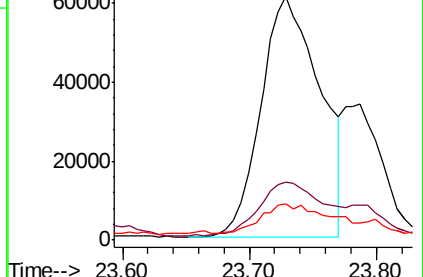
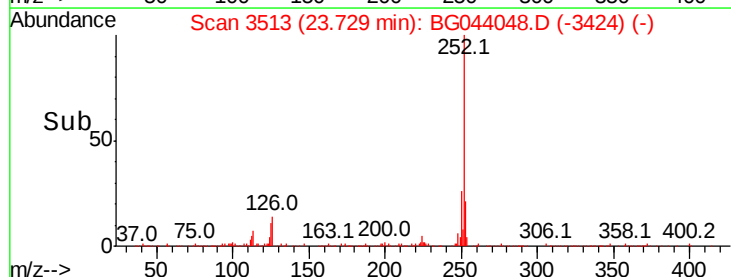
125 14.7 9.4 14.2#

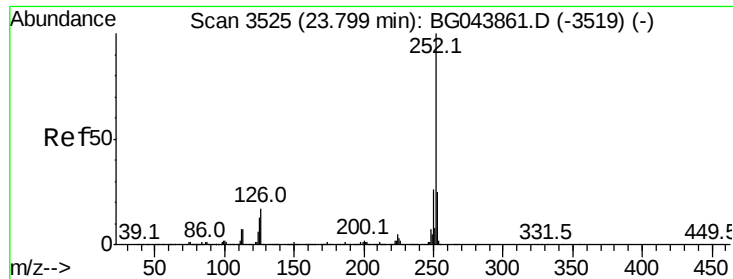


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

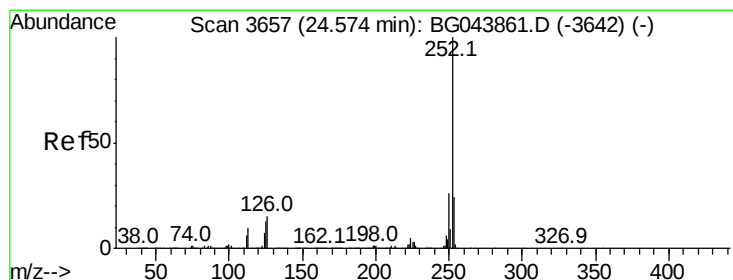
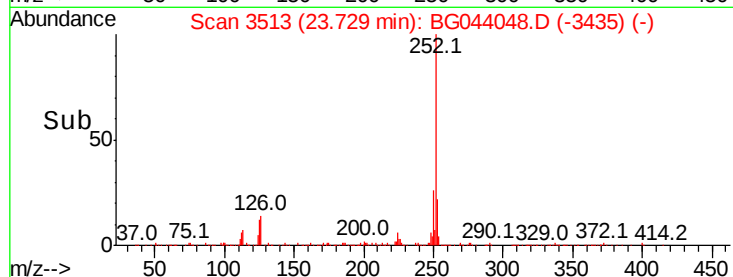
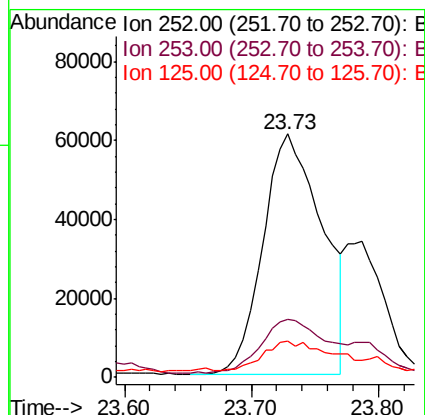
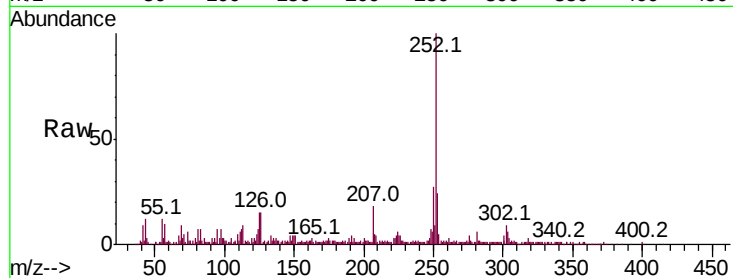




#89
Benzo(k)fluoranthene
Concen: 5.190 ng
RT: 23.73 min Scan# 3513
Delta R.T. -0.07 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

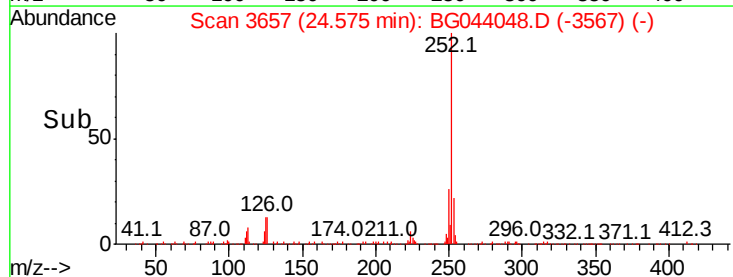
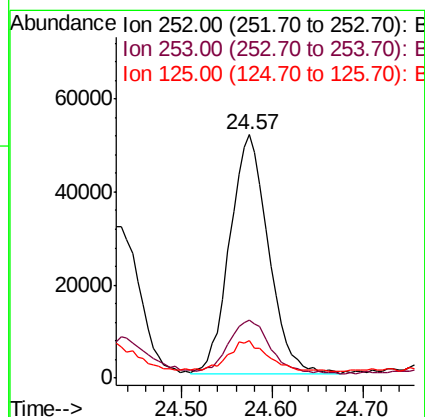
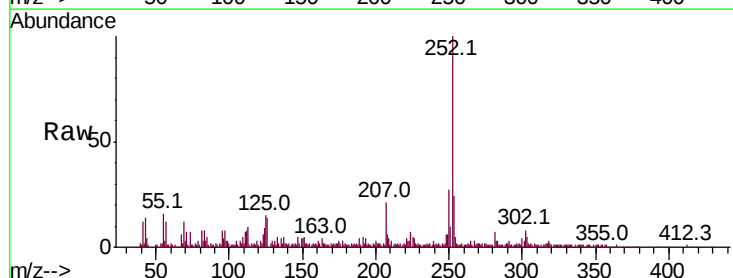
Instrument :
BNA_G
ClientSampleId :

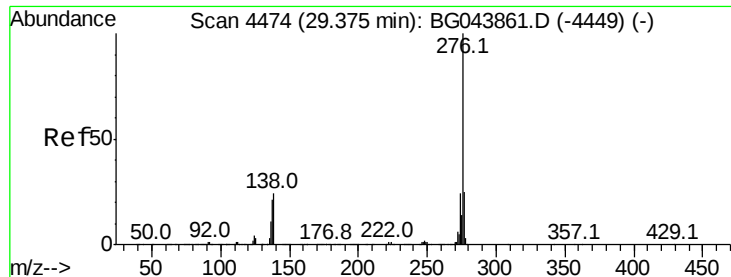
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	19.4	29.2
125	14.7	9.9	14.9



#90
Benzo(a)pyrene
Concen: 3.999 ng
RT: 24.57 min Scan# 3657
Delta R.T. 0.00 min
Lab File: BG044048.D
Acq: 14 Jan 2020 22:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.3	28.9
125	15.2	10.4	15.6





#92

Benzo(a,h,i)perylene

Concen: 2.015 ng

RT: 29.43 min Scan# 4483

Delta R.T. 0.05 min

Lab File: BG044048.D

Acq: 14 Jan 2020 22:42

Instrument :

BNA_G

ClientSampleId :

Tot Ion:276 Resp: 75919

Ion Ratio Lower Upper

276 100

277 23.0 20.2 30.4

138 29.5 19.0 28.6#

