

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082919\
 Data File : BG042561.D
 Acq On : 29 Aug 2019 12:25
 Operator : HP/JU
 Sample : K4521-02RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 29 13:13:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	33368	20.00	ng	-0.01
21) Naphthalene-d8	10.81	136	116968	20.00	ng	-0.01
39) Acenaphthene-d10	14.66	164	81012	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	196720	20.00	ng	-0.01
76) Chrysene-d12	21.68	240	269900	20.00	ng	-0.01
87) Perylene-d12	24.93	264	330245	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	156072	94.73	ng	0.00
7) Phenol-d6	7.16	99	205592	92.38	ng	-0.01
23) Nitrobenzene-d5	9.16	82	117499	69.42	ng	-0.01
42) 2,4,6-Tribromophenol	16.15	330	143803	124.89	ng	-0.01
45) 2-Fluorobiphenyl	13.28	172	346751	72.39	ng	0.00
79) Terphenyl-d14	20.02	244	776205	62.17	ng	0.00

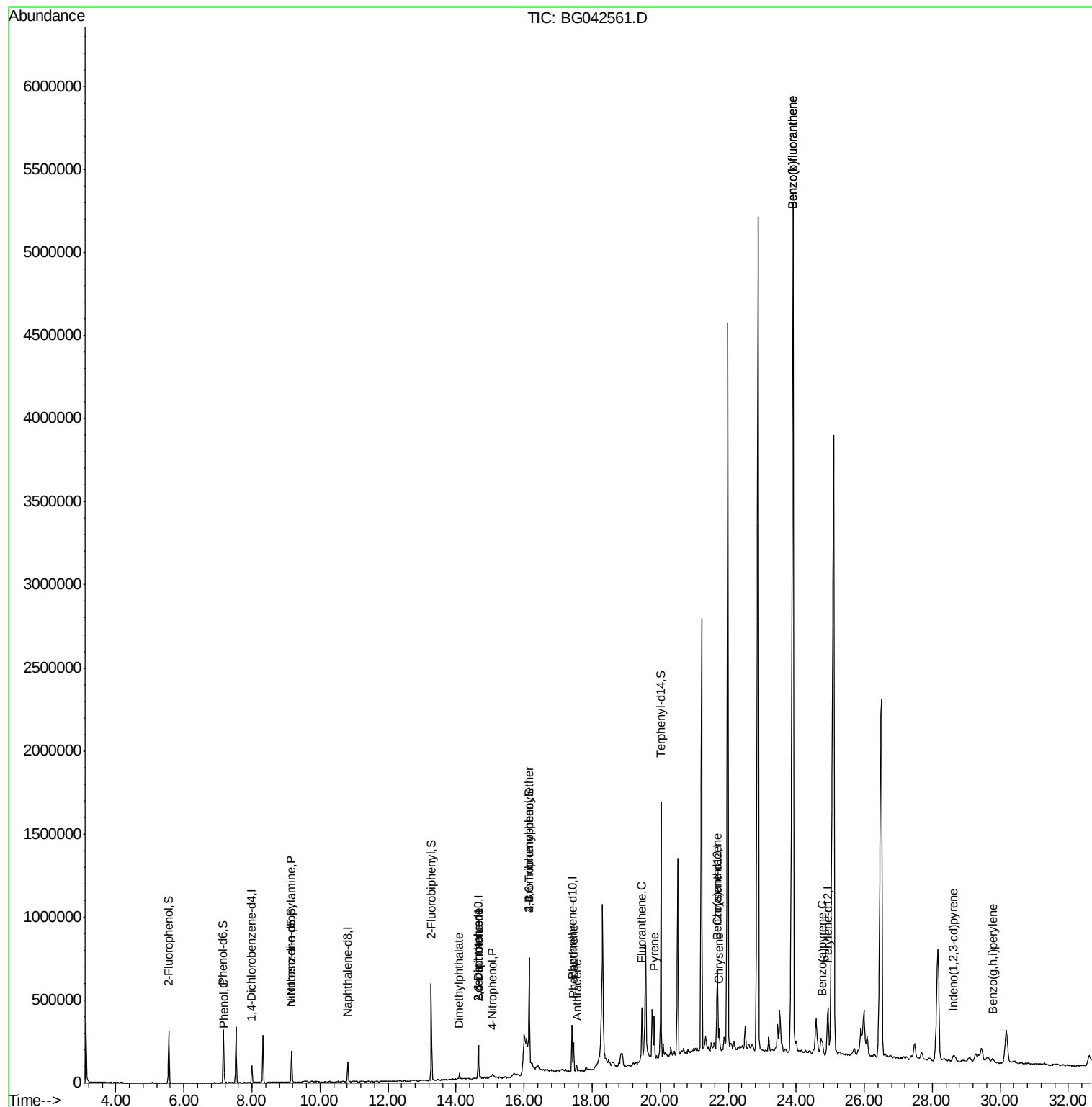
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.19	94	9455	4.179	ng	84
19) n-Nitroso-di-n-propylamine	9.16	70	15807	10.963	ng	# 77
50) Dimethylphthalate	14.10	163	27072	4.631	ng	# 99
51) 2,6-Dinitrotoluene	14.66	165	10937	8.072	ng	# 36
56) 4-Nitrophenol	15.06	139	2377	2.469	ng	# 21
57) 2,4-Dinitrotoluene	14.66	165	10937	5.637	ng	# 38
67) 4-Bromophenyl-phenylether	16.15	248	9663	3.873	ng	# 1
71) Phenanthrene	17.45	178	123508	12.640	ng	98
72) Anthracene	17.54	178	28132	2.884	ng	96
75) Fluoranthene	19.46	202	192442	16.137	ng	96
78) Pyrene	19.82	202	169262	10.229	ng	96
81) Benzo(a)anthracene	21.67	228	109129	6.647	ng	98
83) Chrysene	21.73	228	92762	5.858	ng	97
86) Indeno(1,2,3-cd)pyrene	28.62	276	70718	3.286	ng	# 96
88) Benzo(b)fluoranthene	23.90	252	131940	7.267	ng	# 7
89) Benzo(k)fluoranthene	23.90	252	131940	7.560	ng	# 6
90) Benzo(a)pyrene	24.77	252	93339	5.418	ng	# 97
92) Benzo(g,h,i)perylene	29.78	276	54893	3.146	ng	94

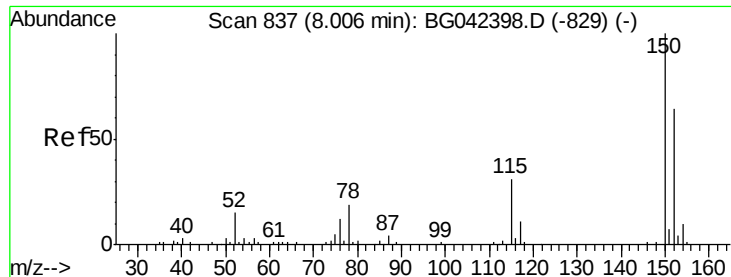
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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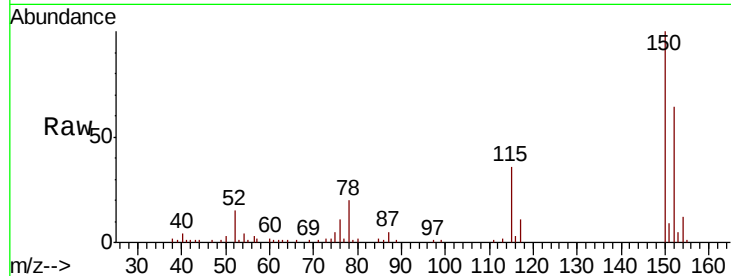


#1

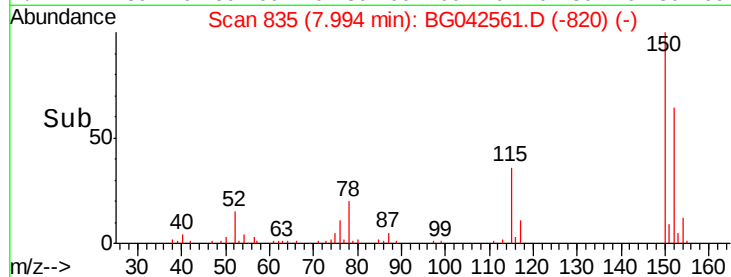
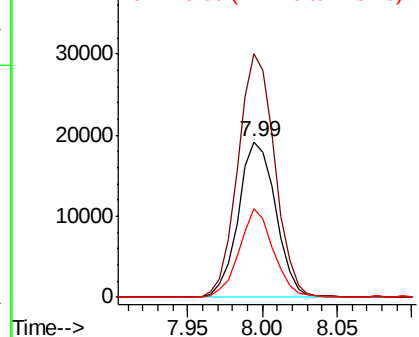
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.99 min Scan# 835
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 33368
Ion Ratio Lower Upper
152 100
150 156.8 125.4 188.0
115 56.9 38.5 57.7



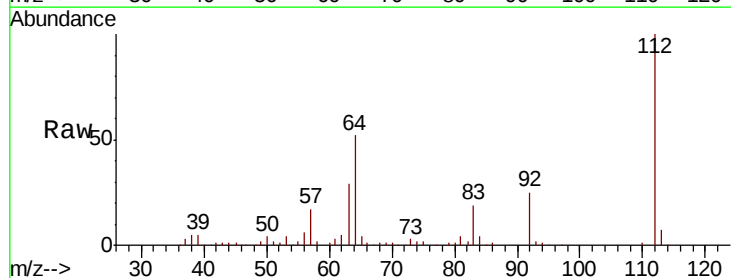
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



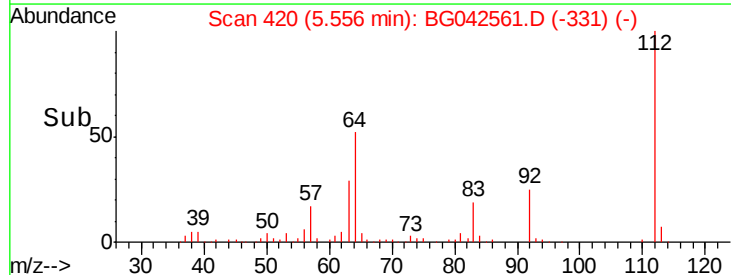
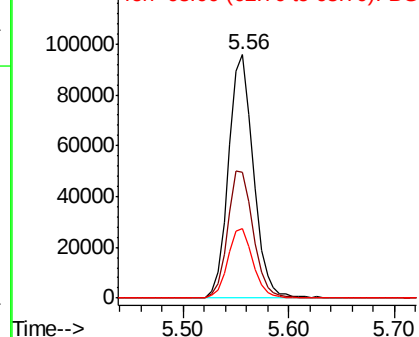
#5

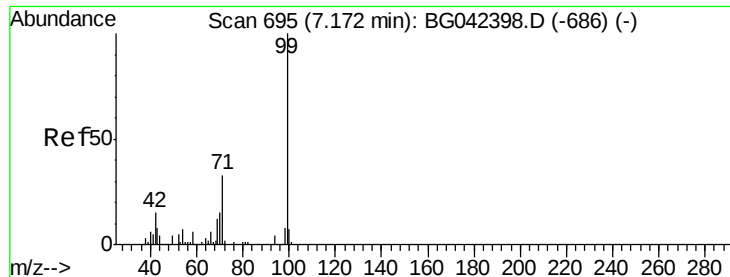
2-Fluorophenol
Concen: 94.729 ng
RT: 5.56 min Scan# 420
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion:112 Resp: 156072
Ion Ratio Lower Upper
112 100
64 51.8 42.8 64.2
63 28.7 22.7 34.1



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: 92.381 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampleId :

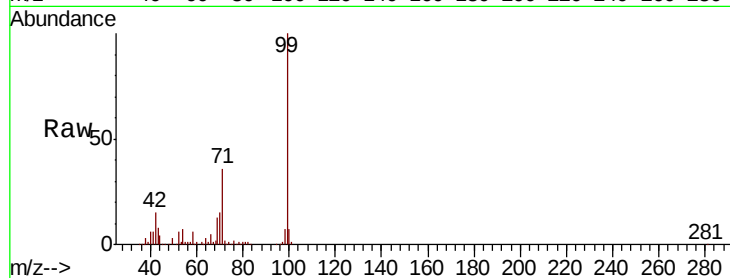
Tot Ion: 99 Resp: 205592

Ion Ratio Lower Upper

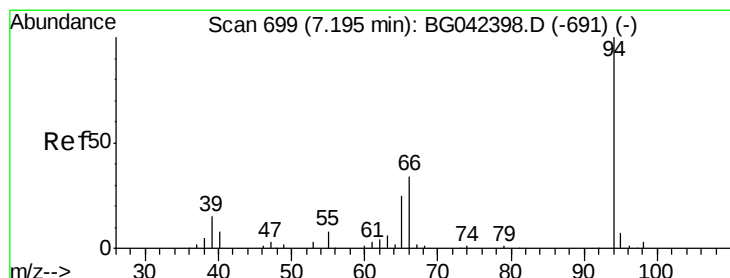
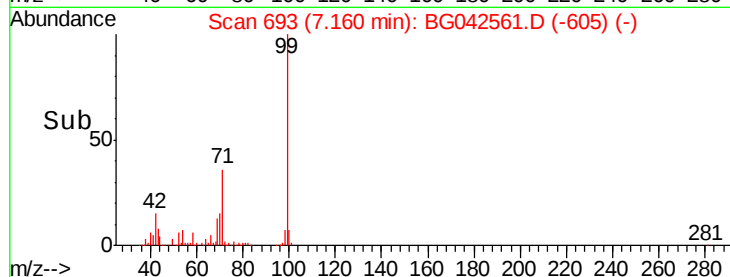
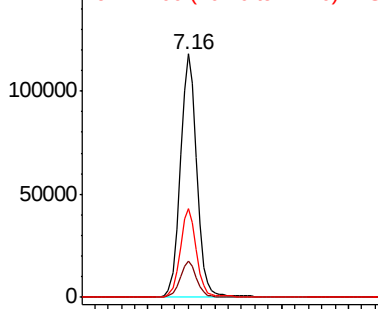
99 100

42 14.8 12.0 18.0

71 36.5 26.3 39.5



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



#10

Phenol

Concen: 4.179 ng

RT: 7.19 min Scan# 698

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

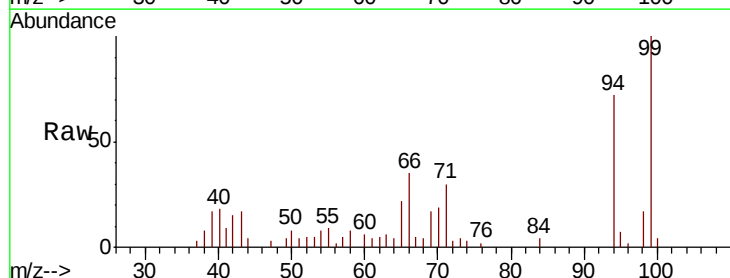
Tgt Ion: 94 Resp: 9455

Ion Ratio Lower Upper

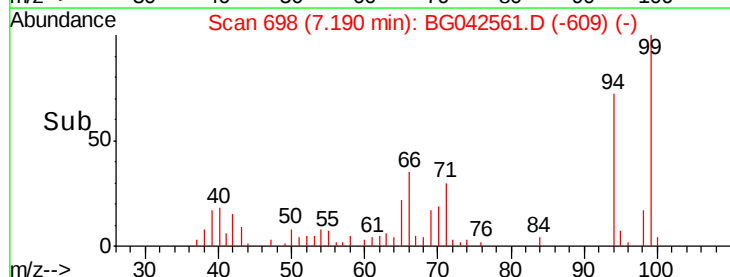
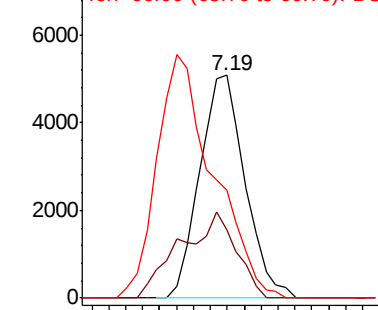
94 100

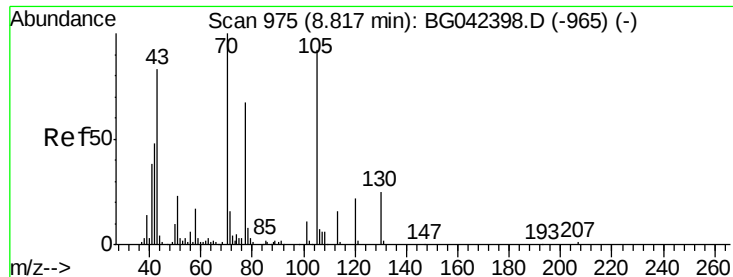
65 30.4 5.6 45.6

66 48.2 16.0 56.0



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC

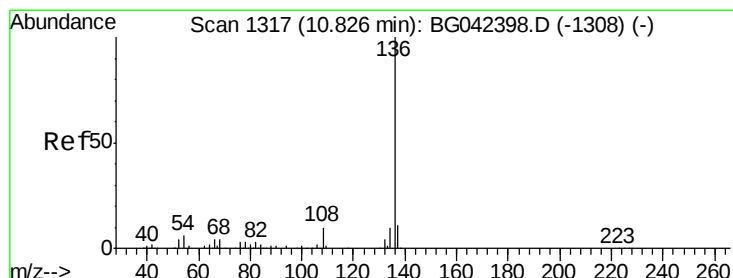
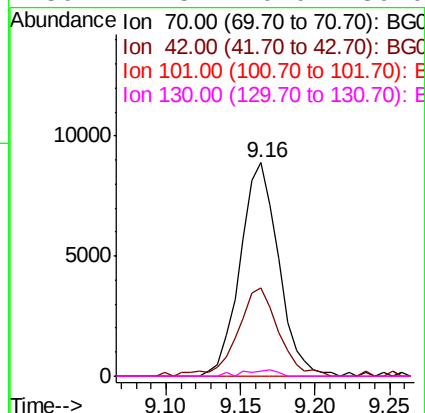
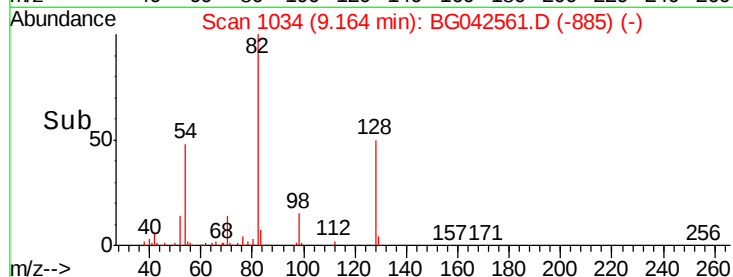
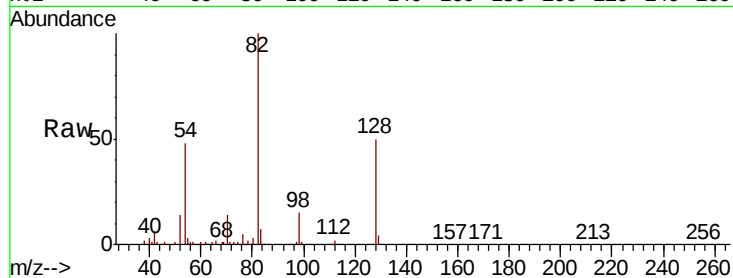




#19
 n-Nitroso-di-n-propylamine
 Concen: 10.963 ng
 RT: 9.16 min Scan# 1034
 Delta R.T. 0.35 min
 Lab File: BG042561.D
 Acq: 29 Aug 2019 12:25

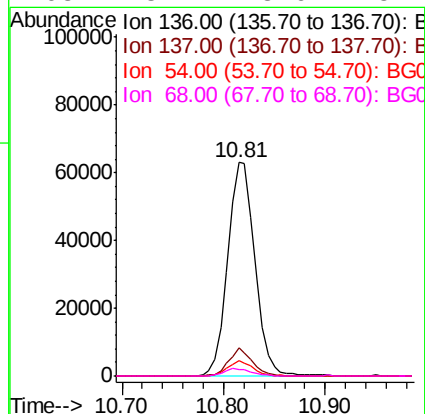
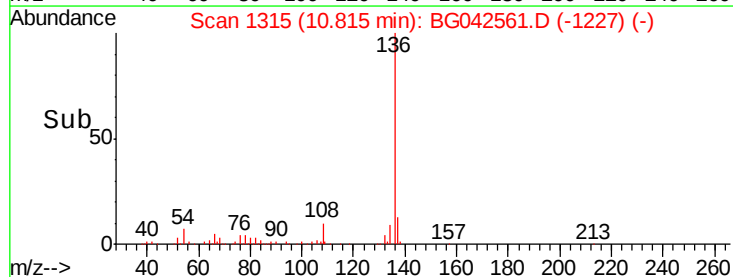
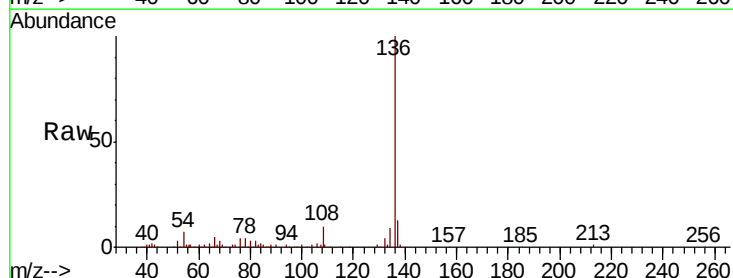
Instrument :
 BNA_G
 ClientSampleId :

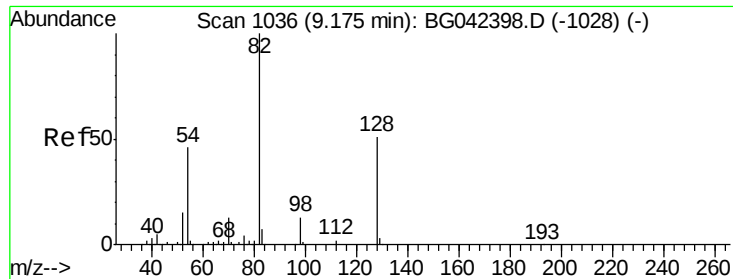
Tot Ion: 70 Resp: 15807
 Ion Ratio Lower Upper
 70 100
 42 41.7 38.8 58.2
 101 0.0 9.0 13.6#
 130 2.5 20.0 30.0#



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 10.81 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: BG042561.D
 Acq: 29 Aug 2019 12:25

Tgt Ion: 136 Resp: 116968
 Ion Ratio Lower Upper
 136 100
 137 13.0 8.7 13.1
 54 7.0 4.9 7.3
 68 3.2 3.6 5.4#

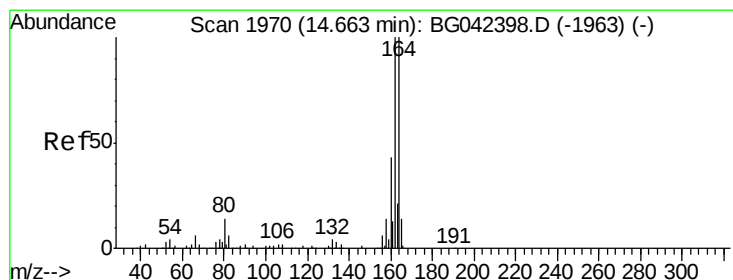
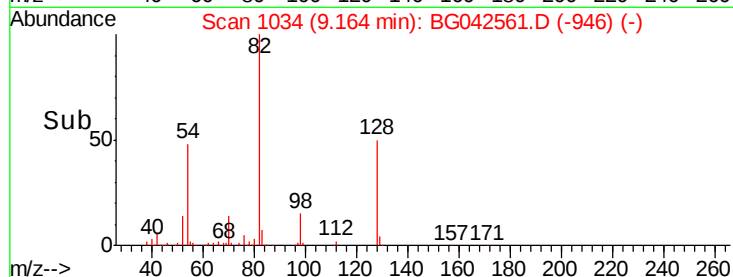
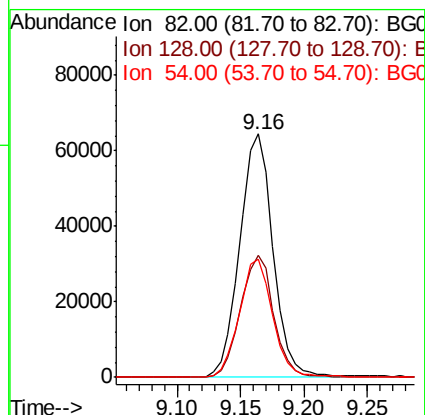
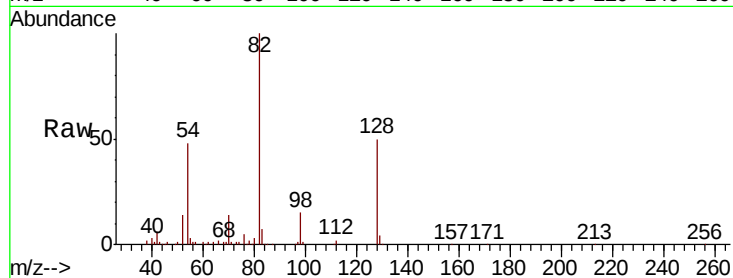




#23
Nitrobenzene-d5
Concen: 69.418 ng
RT: 9.16 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

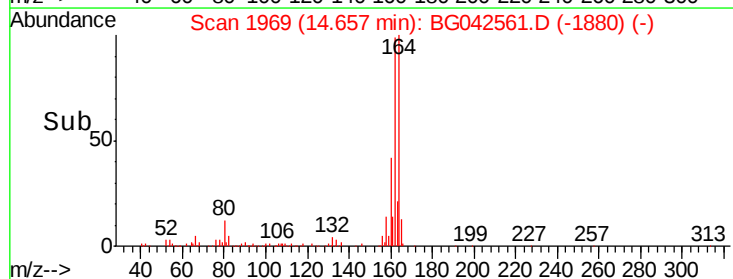
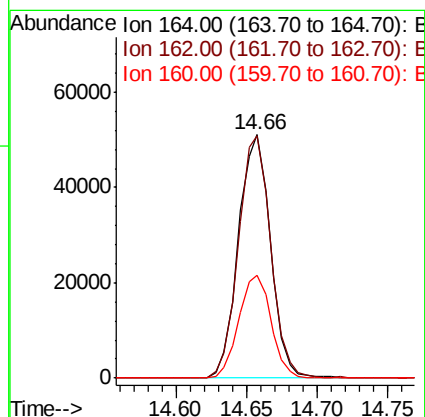
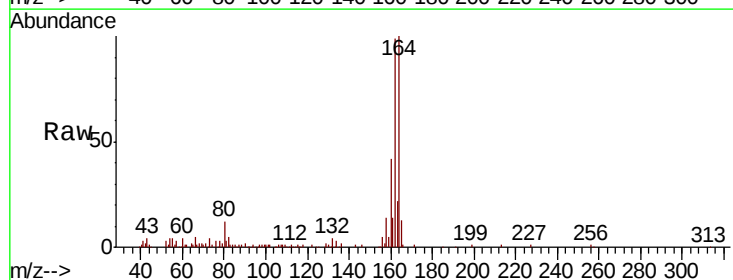
Instrument :
BNA_G
ClientSampleId :

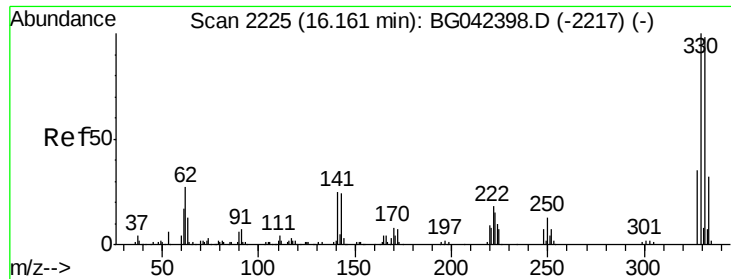
Tot Ion	82	Resp	117499
Ion Ratio	Lower	Upper	
82	100		
128	50.3	40.7	61.1
54	48.4	36.3	54.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion	164	Resp	81012
Ion Ratio	Lower	Upper	
164	100		
162	99.3	79.9	119.9
160	42.3	34.3	51.5





#42

2,4,6-Tribromophenol

Concen: 124.888 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampleId :

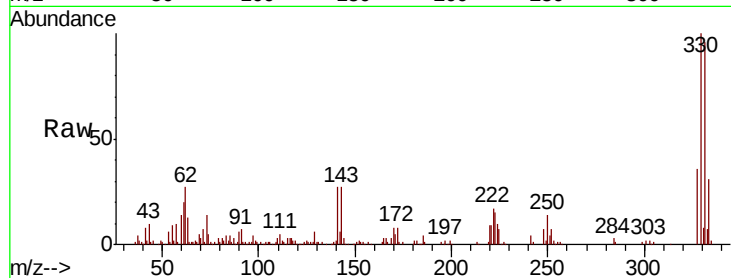
Tot Ion:330 Resp: 143803

Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.0

141 27.0 21.4 32.0

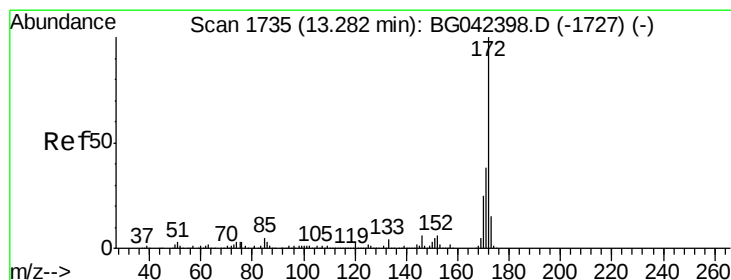
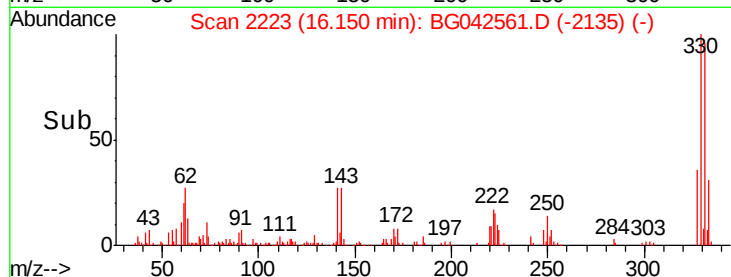
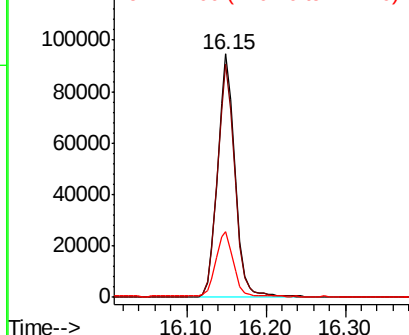


Abundance

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: 72.391 ng

RT: 13.28 min Scan# 1734

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

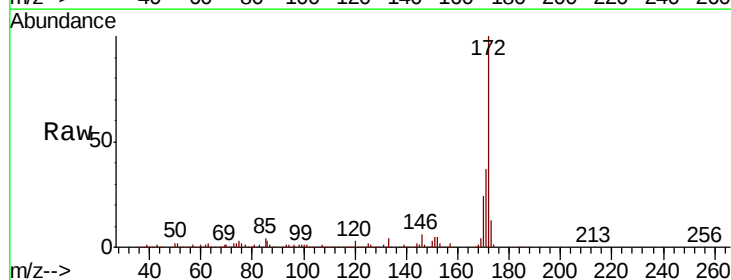
Tgt Ion:172 Resp: 346751

Ion Ratio Lower Upper

172 100

171 36.6 30.5 45.7

170 24.4 20.2 30.2

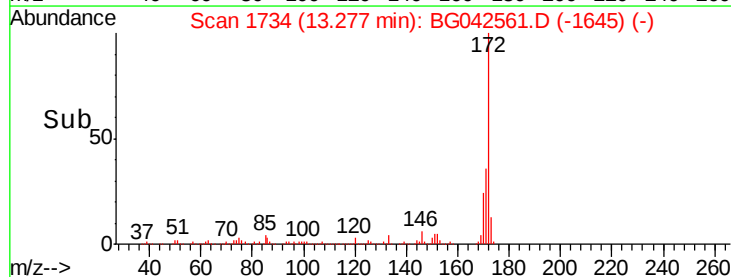
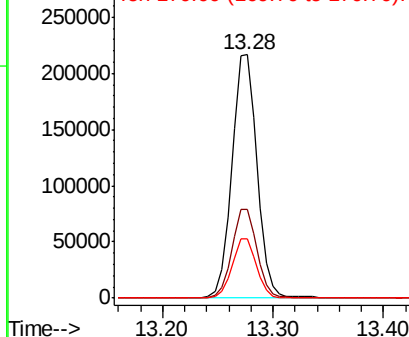


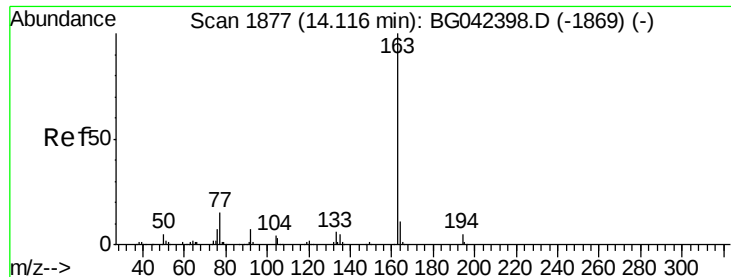
Abundance

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

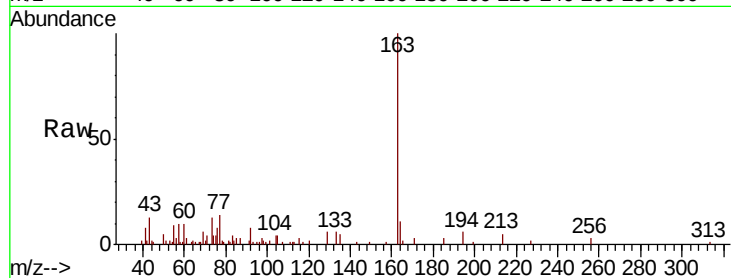




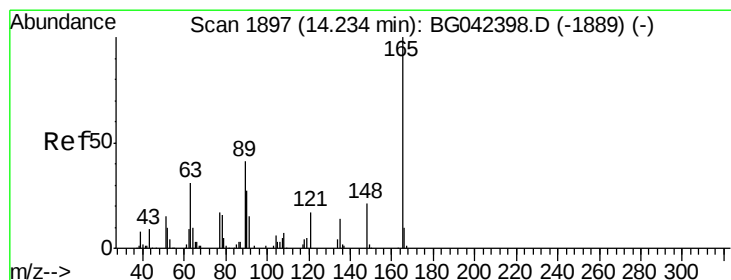
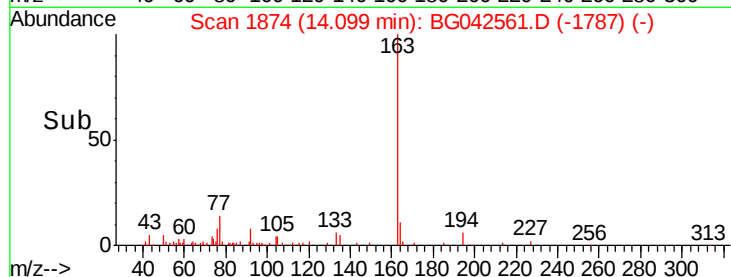
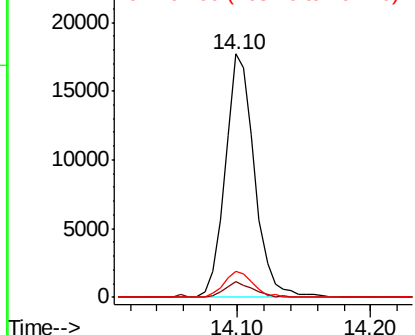
#50
Dimethylphthalate
Concen: 4.631 ng
RT: 14.10 min Scan# 1874
Delta R.T. -0.02 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Instrument :
BNA_G
ClientSampleID :

Tot Ion:163 Resp: 27072
Ion Ratio Lower Upper
163 100
194 6.3 4.2 6.2#
164 10.8 8.8 13.2

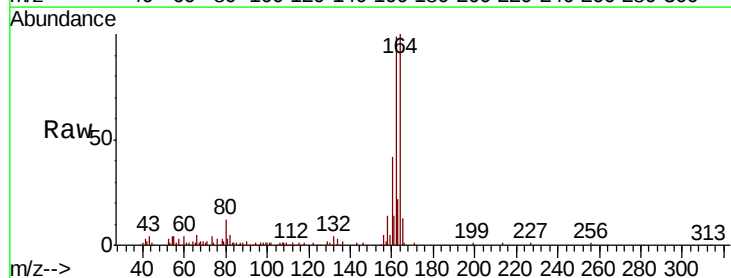


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

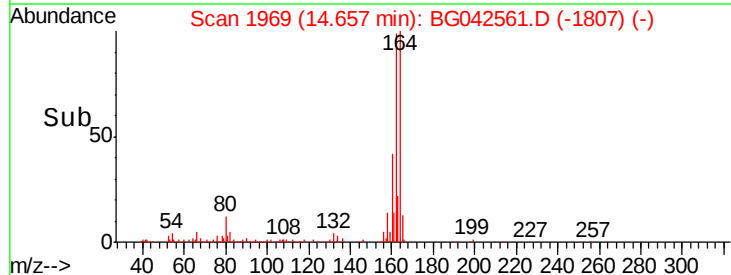
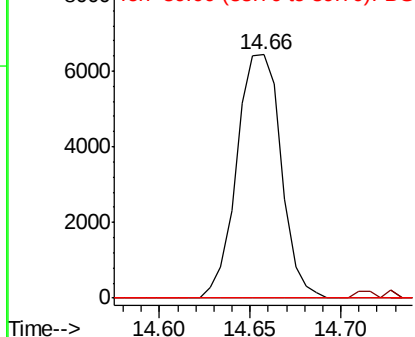


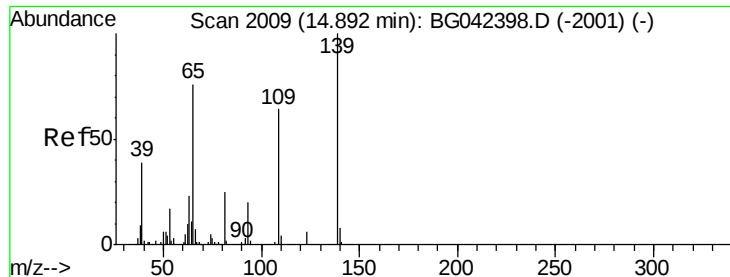
#51
2,6-Dinitrotoluene
Concen: 8.072 ng
RT: 14.66 min Scan# 1969
Delta R.T. 0.42 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion:165 Resp: 10937
Ion Ratio Lower Upper
165 100
63 0.0 30.6 45.8#
89 0.0 32.6 49.0#



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

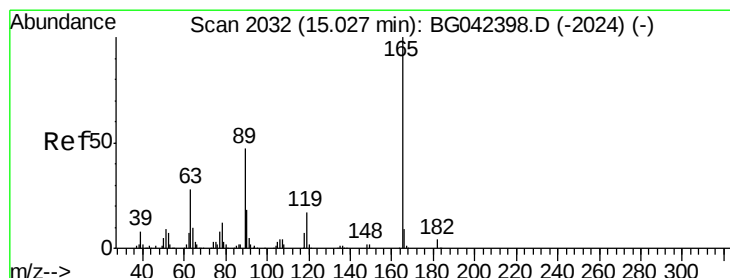
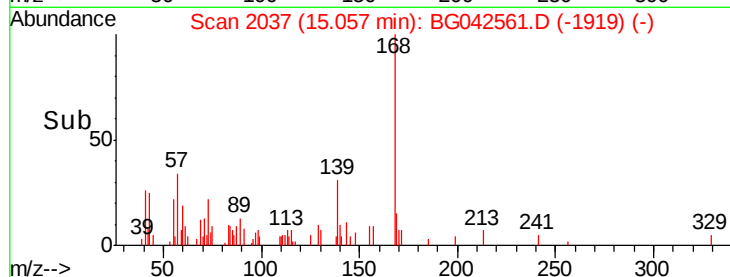
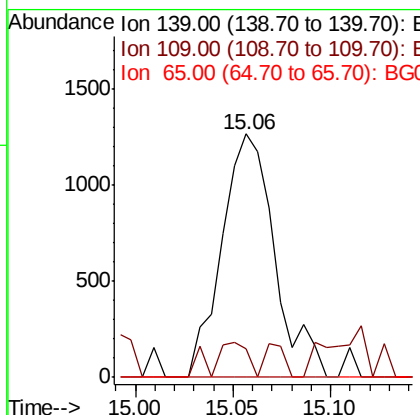
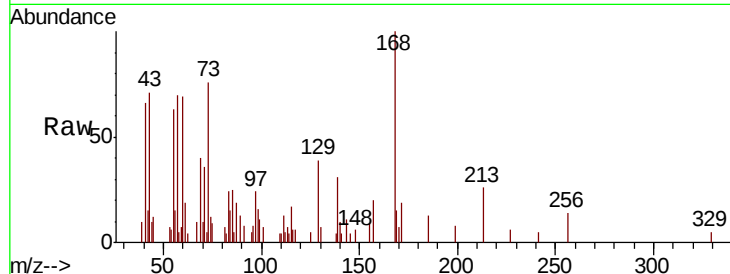




#56
4-Nitrophenol
Concen: 2.469 ng
RT: 15.06 min Scan# 2037
Delta R.T. 0.16 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

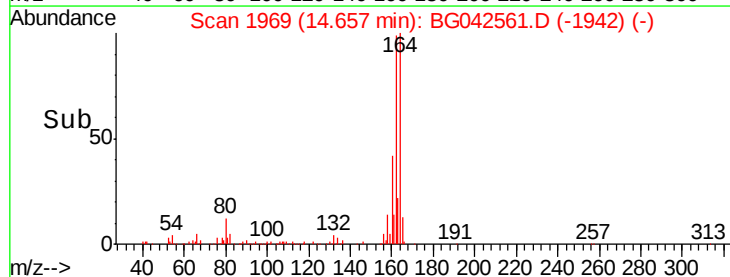
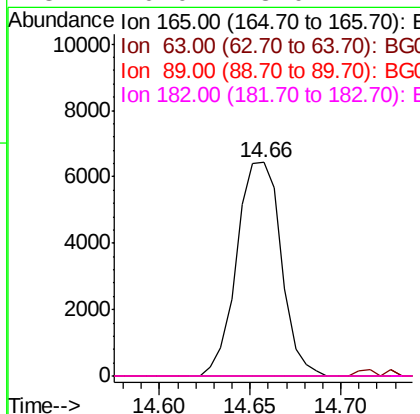
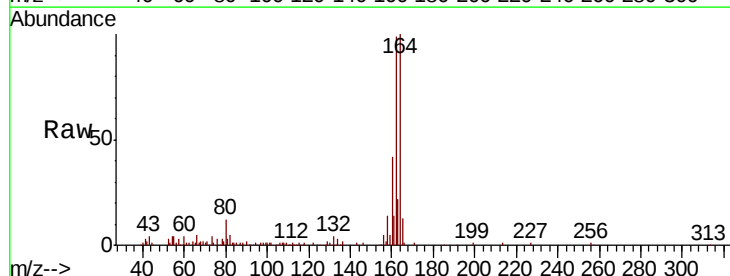
Instrument :
BNA_G
ClientSampleId :

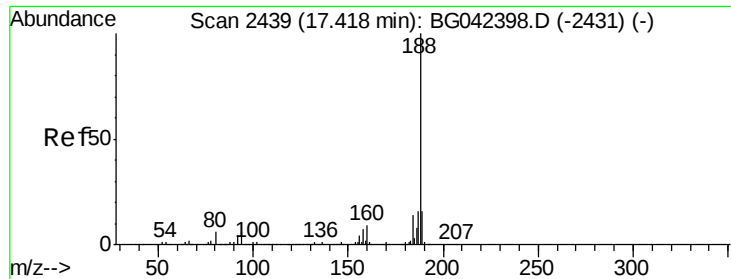
Tot Ion	Ratio	Lower	Upper
139	100		
109	11.9	43.9	83.9#
65	0.0	56.3	96.3#



#57
2,4-Dinitrotoluene
Concen: 5.637 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.37 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.5	33.7#
89	0.0	37.8	56.6#
182	0.0	3.0	4.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2437

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampleId :

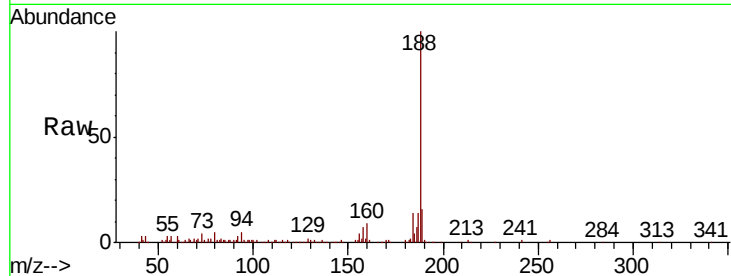
Tot Ion:188 Resp: 196720

Ion Ratio Lower Upper

188 100

94 5.0 4.5 6.7

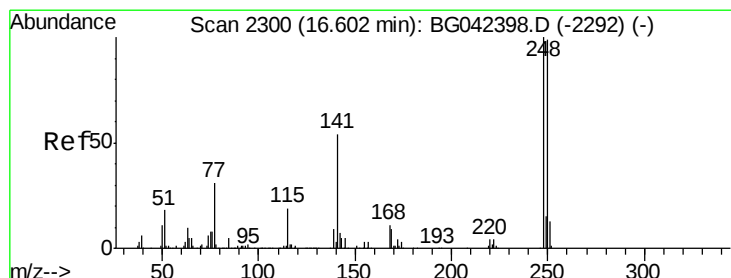
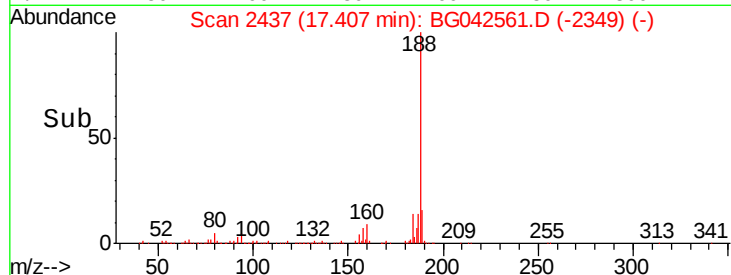
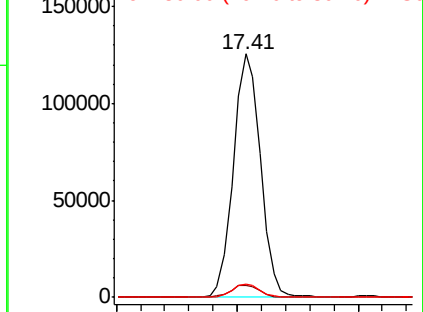
80 5.4 4.9 7.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG042398.D (-2431) (-)

Ion 80.00 (79.70 to 80.70): BG042398.D (-2431) (-)



#67

4-Bromophenyl-phenylether

Concen: 3.873 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

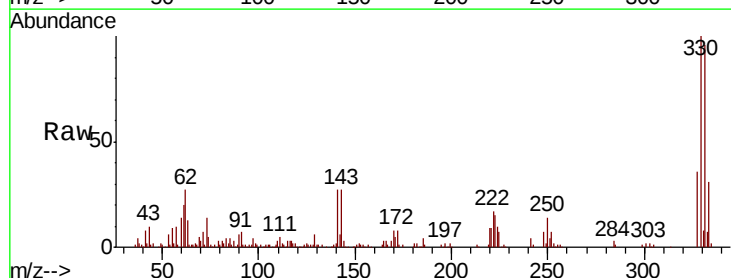
Tgt Ion:248 Resp: 9663

Ion Ratio Lower Upper

248 100

250 203.4 78.9 118.3#

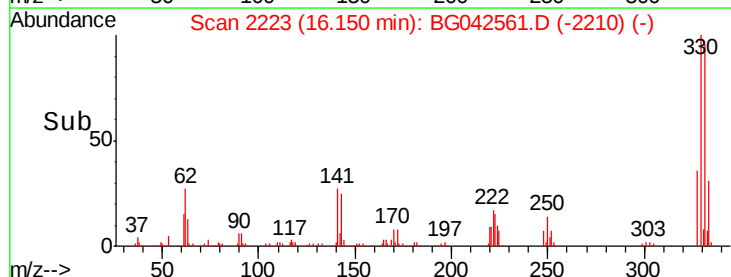
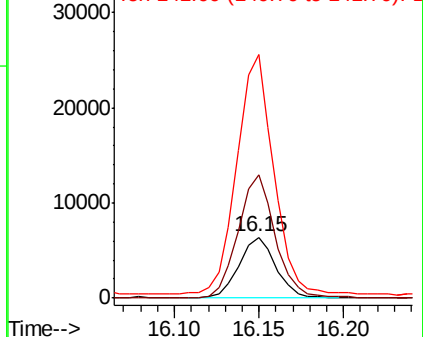
141 399.6 43.3 64.9#

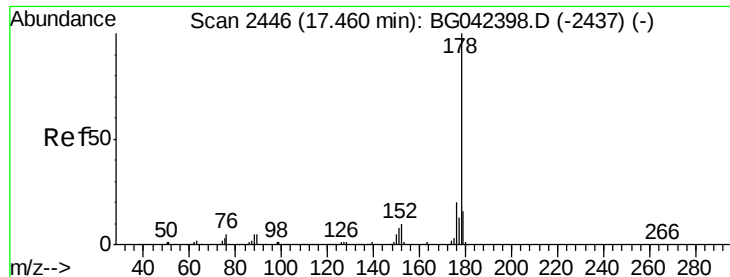


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

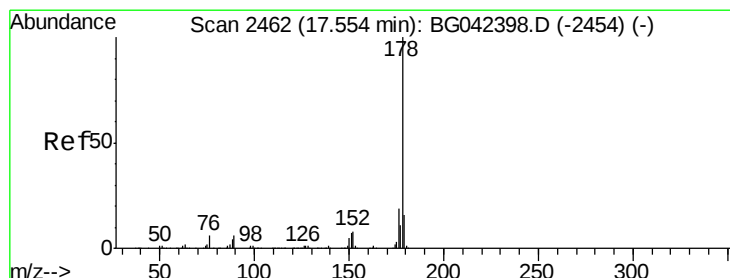
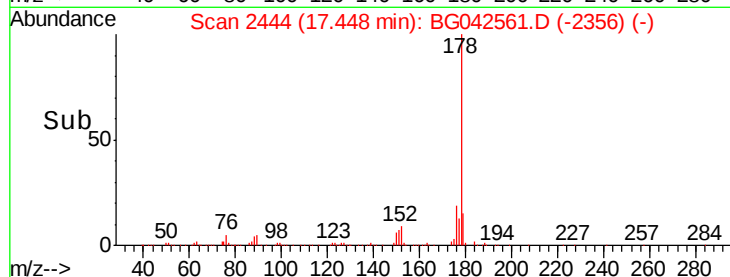
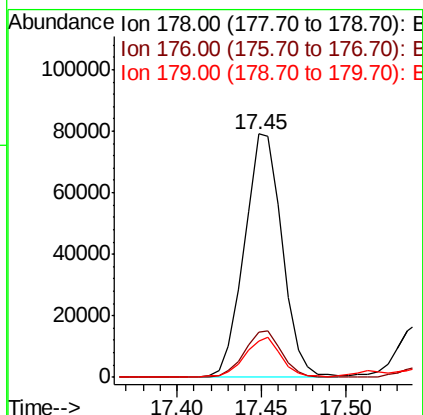
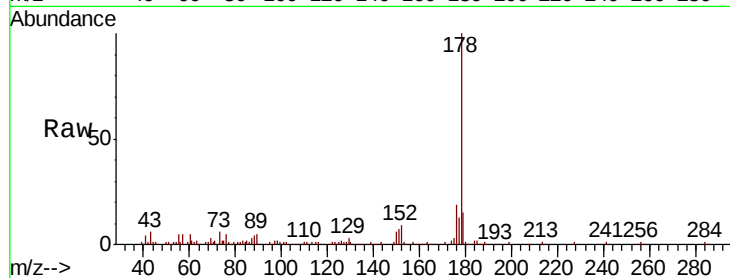




#71
Phenanthrene
Concen: 12.640 ng
RT: 17.45 min Scan# 2444
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

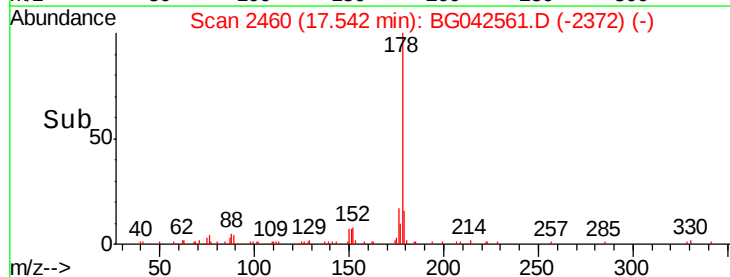
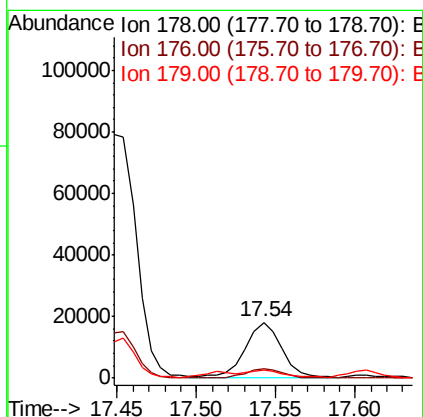
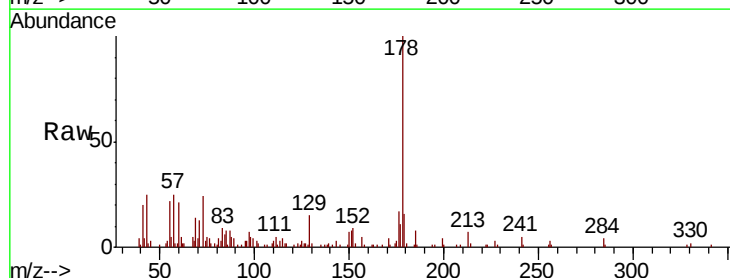
Instrument :
BNA_G
ClientSampled :

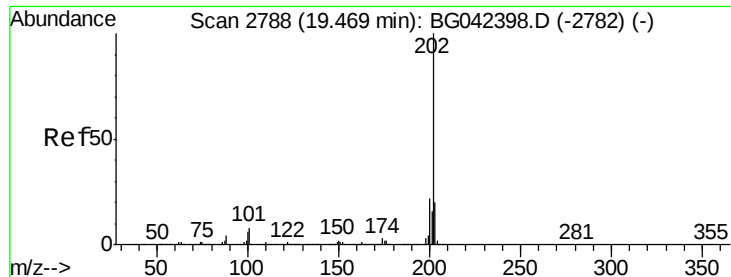
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	14.9	12.7	19.1



#72
Anthracene
Concen: 2.884 ng
RT: 17.54 min Scan# 2460
Delta R.T. -0.01 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.6	15.5	23.3
179	15.7	12.9	19.3





#75

Fluoranthene

Concen: 16.137 ng

RT: 19.46 min Scan# 2787

Delta R.T. -0.01 min

Lab File: BG042561.D

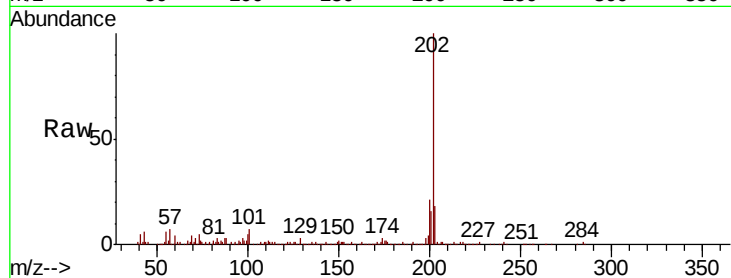
Acq: 29 Aug 2019 12:25

Instrument :

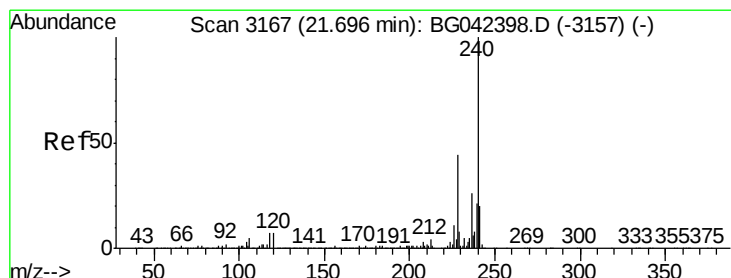
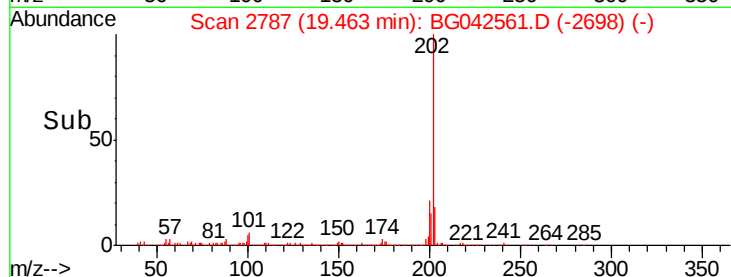
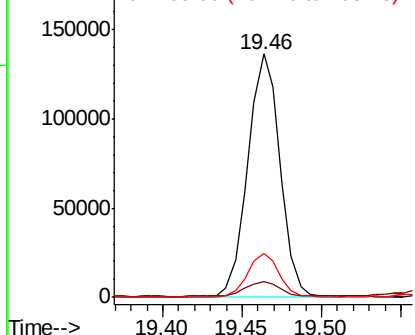
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	192442
Ion Ratio	Lower	Upper	
202	100		
101	6.6	0.0	28.3
203	18.2	0.0	39.6



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

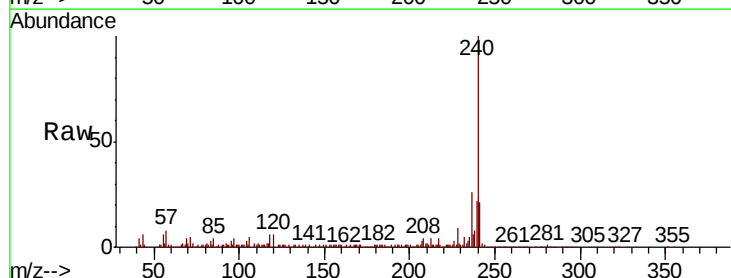
RT: 21.68 min Scan# 3165

Delta R.T. -0.01 min

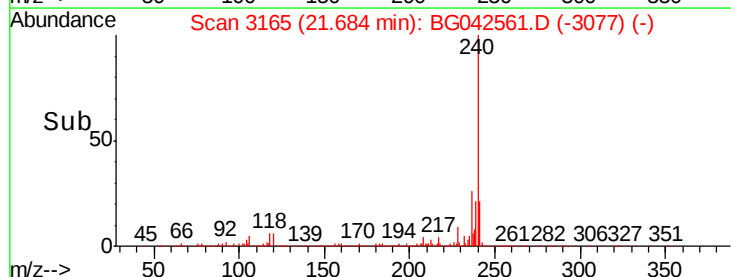
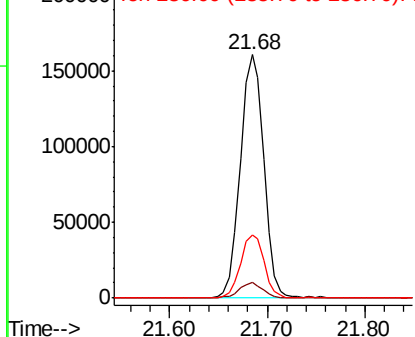
Lab File: BG042561.D

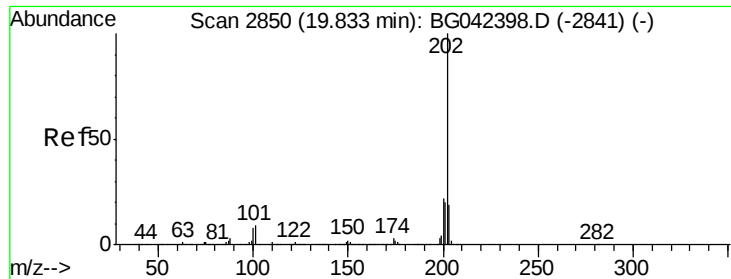
Acq: 29 Aug 2019 12:25

Tgt Ion:	240	Resp:	269900
Ion Ratio	Lower	Upper	
240	100		
120	6.3	5.7	8.5
236	25.8	21.0	31.4



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: 10.229 ng

RT: 19.82 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BG042561.D

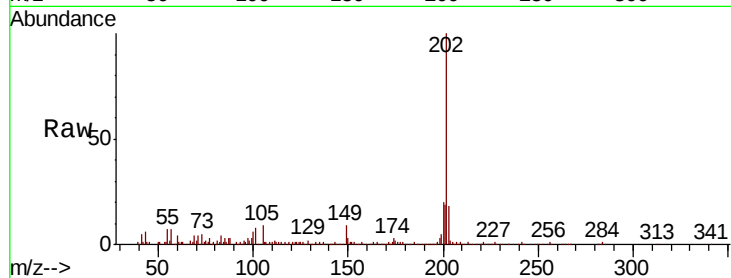
Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampled :

Tot Ion:	202	Resp:	169262
Ion	Ratio	Lower	Upper
202	100		
200	19.8	17.8	26.6
203	18.2	15.5	23.3

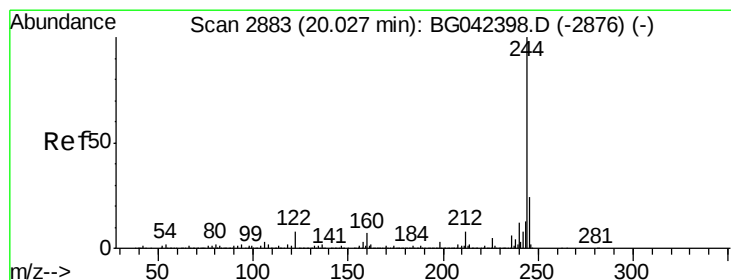
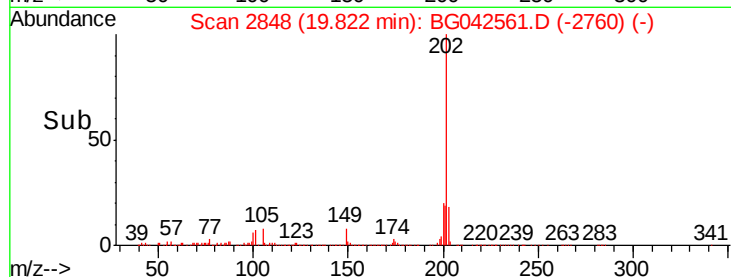
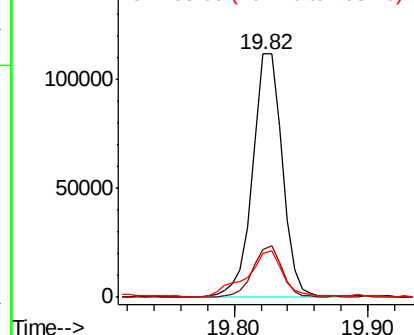


Abundance

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: 62.175 ng

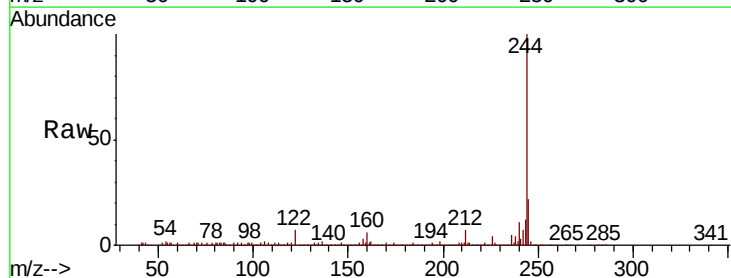
RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Tgt Ion:	244	Resp:	776205
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	6.8	6.7	10.1

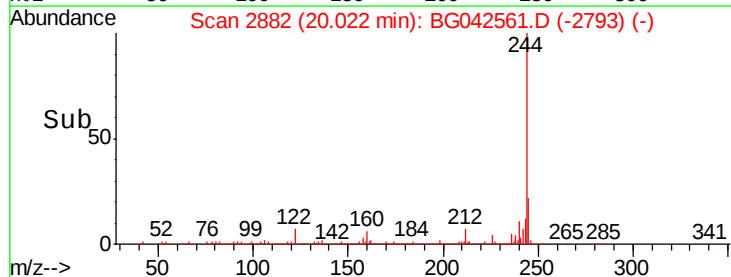
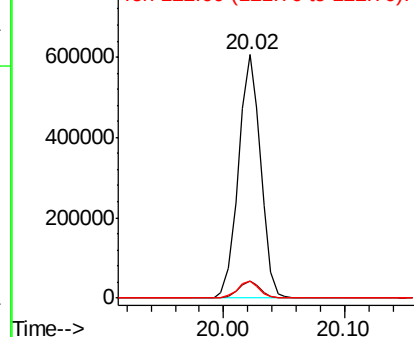


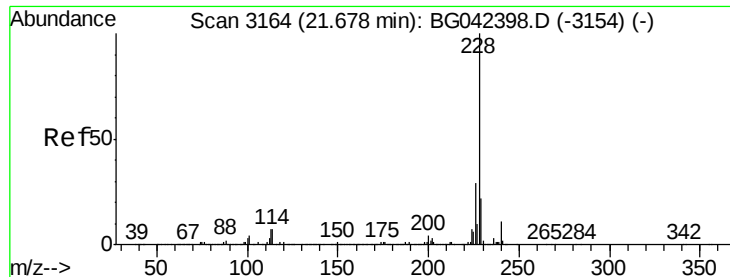
Abundance

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: 6.647 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampleId :

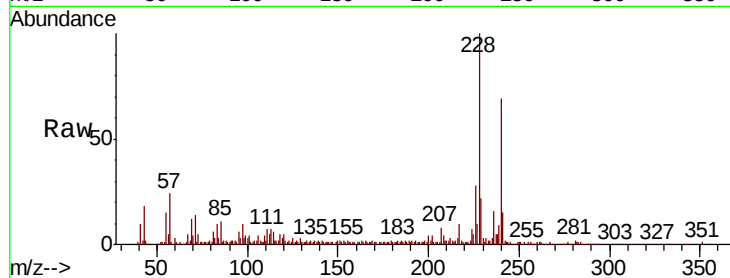
Tot Ion:228 Resp: 109129

Ion Ratio Lower Upper

228 100

226 27.9 23.4 35.2

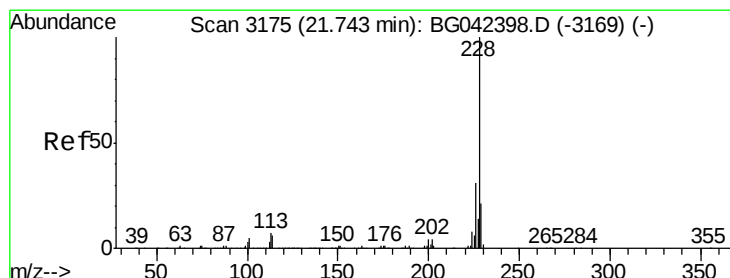
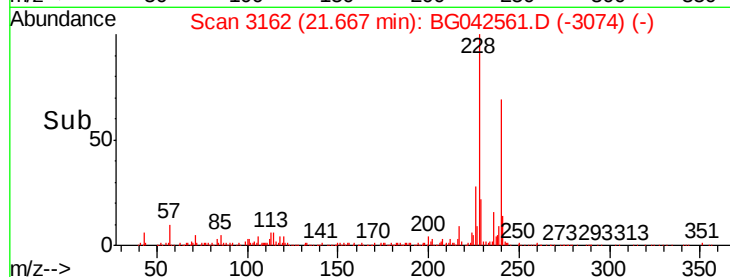
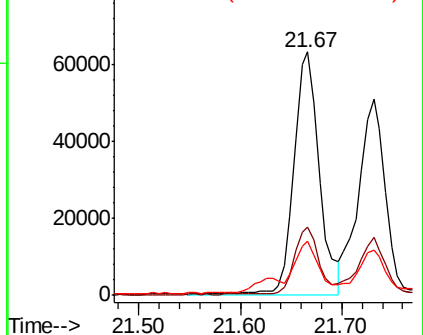
229 22.3 17.4 26.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 5.858 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

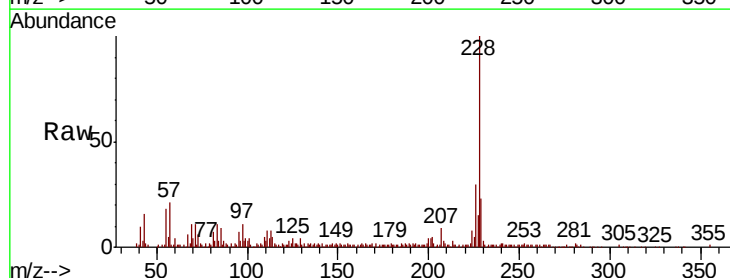
Tgt Ion:228 Resp: 92762

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

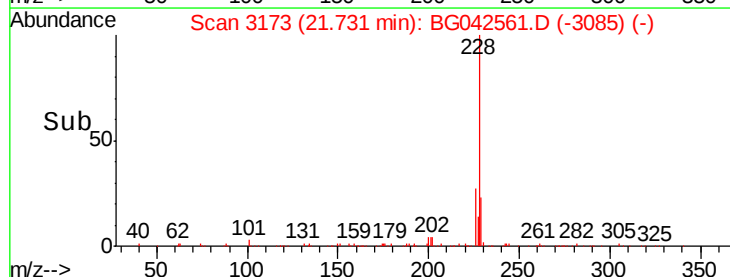
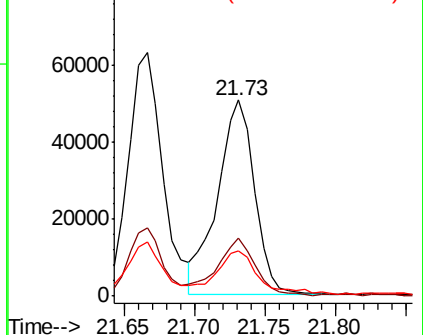
229 23.3 16.9 25.3

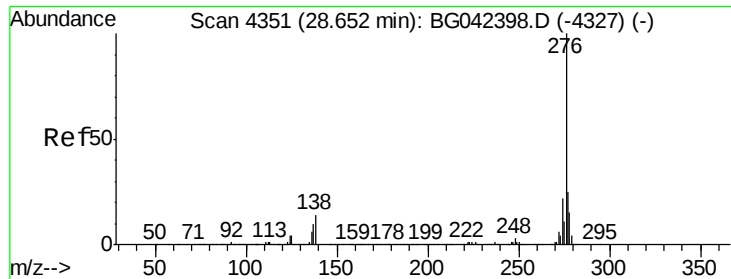


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

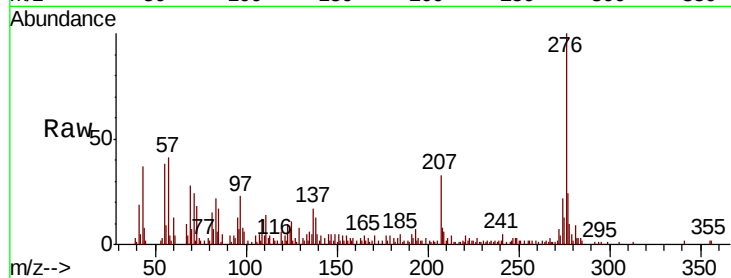




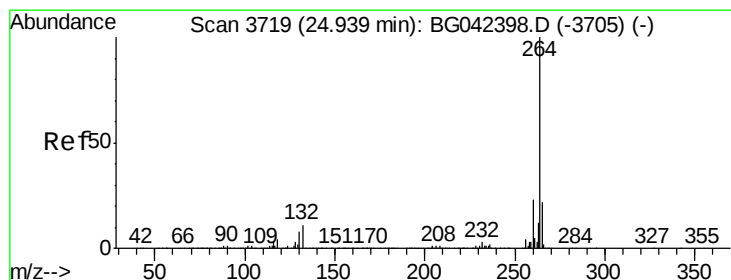
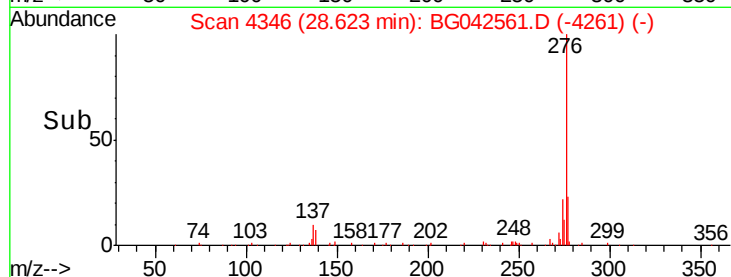
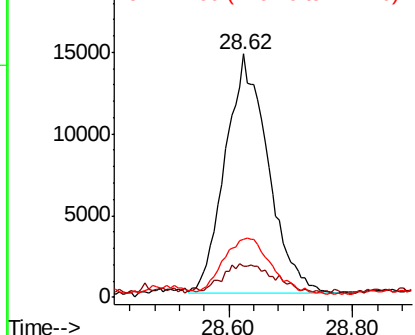
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.286 ng
 RT: 28.62 min Scan# 4346
 Delta R.T. -0.03 min
 Lab File: BG042561.D
 Acq: 29 Aug 2019 12:25

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.1	9.2	13.8#
277	26.2	21.0	31.6

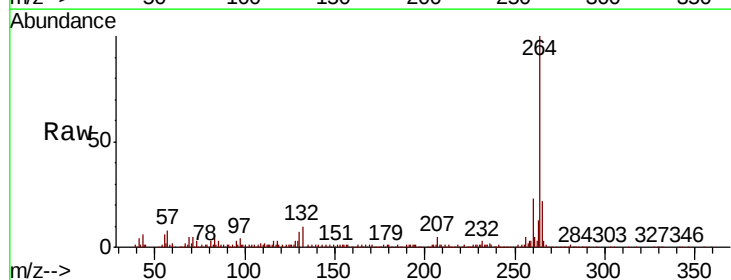


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

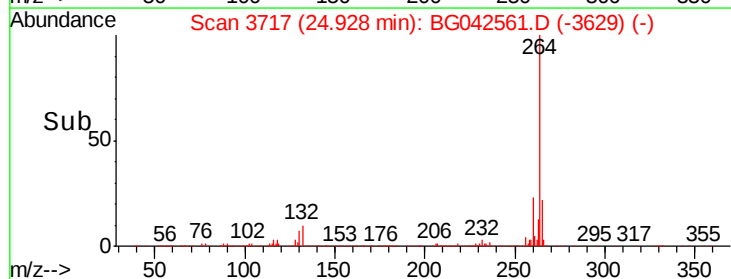
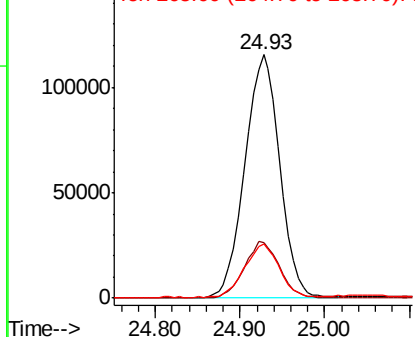


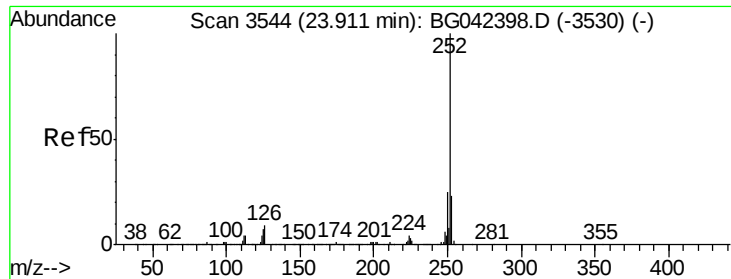
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.93 min Scan# 3717
 Delta R.T. -0.01 min
 Lab File: BG042561.D
 Acq: 29 Aug 2019 12:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.5	27.7
265	22.5	17.6	26.4



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: 7.267 ng

RT: 23.90 min Scan# 3542

Delta R.T. -0.01 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

Instrument :

BNA_G

ClientSampleId :

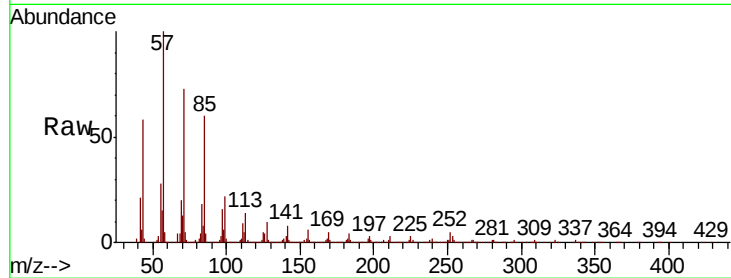
Tot Ion:252 Resp: 131940

Ion Ratio Lower Upper

252 100

253 47.7 18.6 27.8#

125 88.2 5.6 8.4#

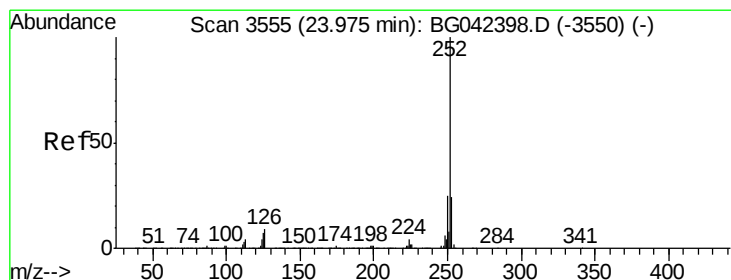
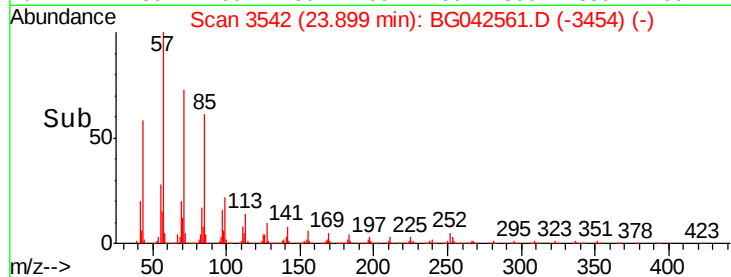
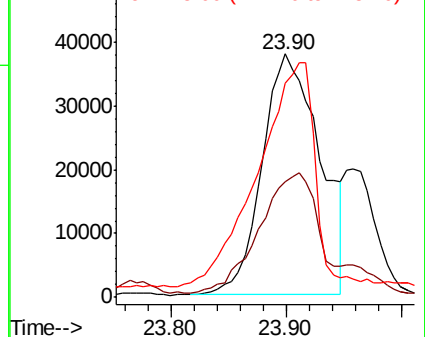


Abundance

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: 7.560 ng

RT: 23.90 min Scan# 3542

Delta R.T. -0.08 min

Lab File: BG042561.D

Acq: 29 Aug 2019 12:25

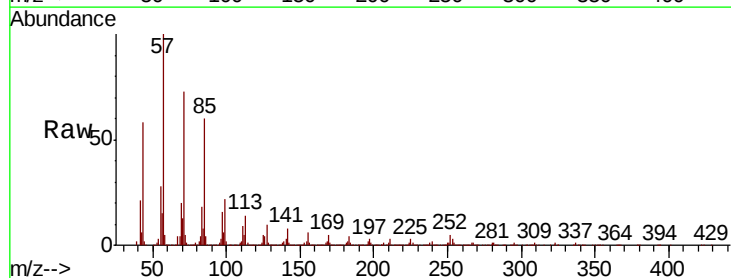
Tgt Ion:252 Resp: 131940

Ion Ratio Lower Upper

252 100

253 47.7 18.6 27.8#

125 88.2 5.8 8.6#

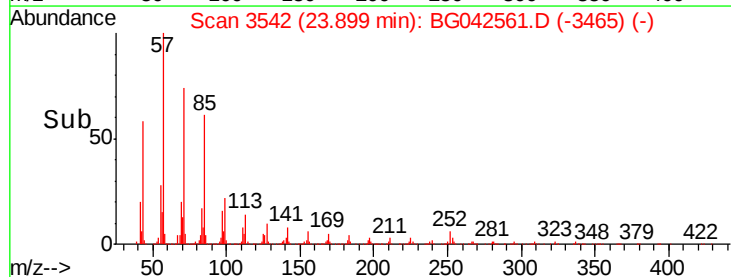
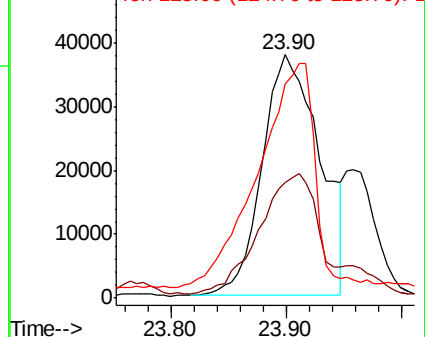


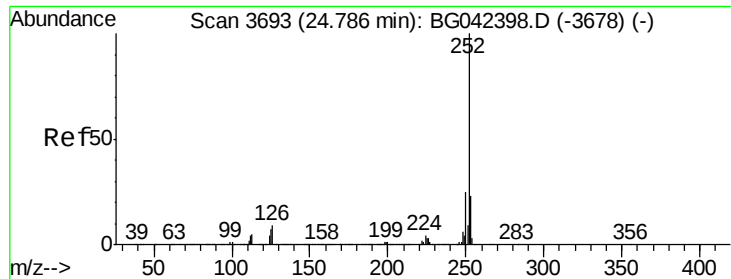
Abundance

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

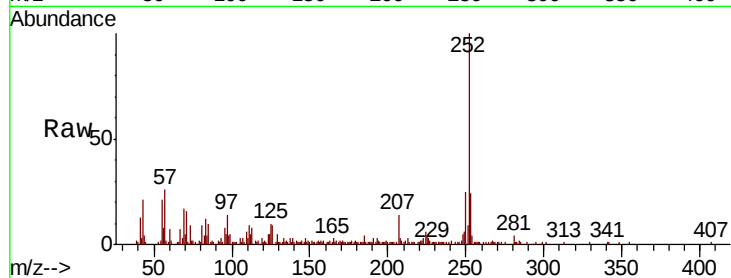




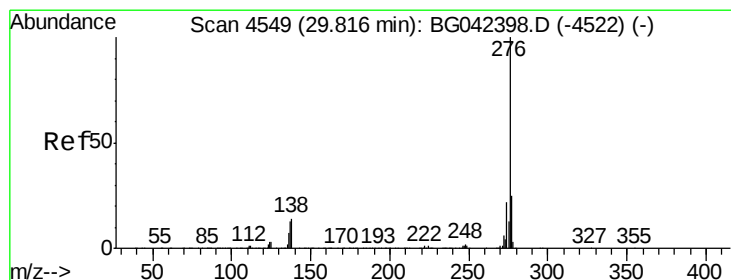
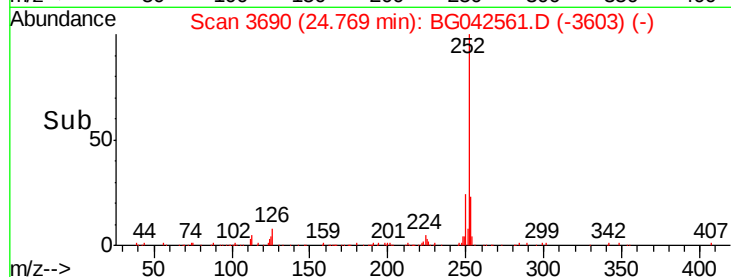
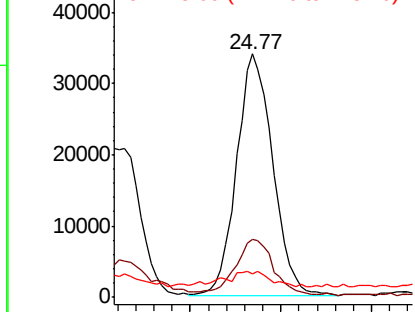
#90
Benzo(a)pyrene
Concen: 5.418 ng
RT: 24.77 min Scan# 3690
Delta R.T. -0.02 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	9.7	6.0	9.0

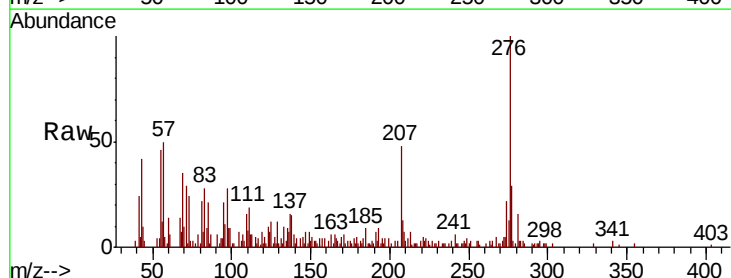


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.146 ng
RT: 29.78 min Scan# 4543
Delta R.T. -0.03 min
Lab File: BG042561.D
Acq: 29 Aug 2019 12:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.0	19.8	29.8
138	14.8	11.4	17.0



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

