

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081018\
 Data File : BF108100.D
 Acq On : 10 Aug 2018 22:41
 Operator : JU/SJ
 Sample : J4272-17 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-080918-I

Quant Time: Aug 11 00:33:03 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

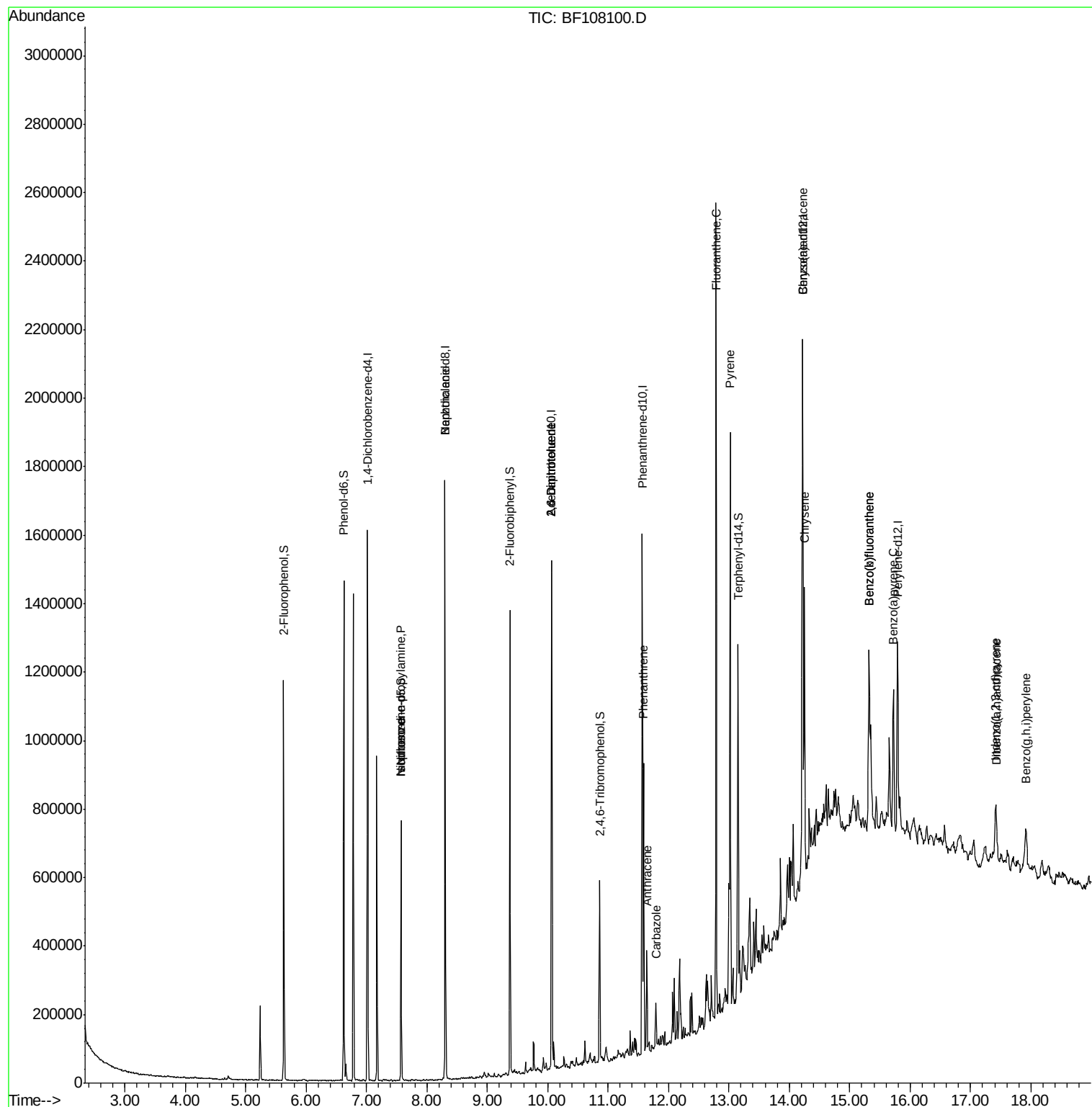
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	204742	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	720938	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	299785	20.00	ng	0.00
63) Phenanthrene-d10	11.57	188	515421	20.00	ng	0.00
75) Chrysene-d12	14.22	240	406190	20.00	ng	0.00
86) Perylene-d12	15.79	264	273779	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	282274	24.96	ng	0.00
7) Phenol-d6	6.62	99	375367	24.98	ng	0.00
23) Nitrobenzene-d5	7.58	82	215719	16.70	ng	0.00
41) 2,4,6-Tribromophenol	10.86	330	57925	19.37	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	378016	20.24	ng	0.00
78) Terphenyl-d14	13.15	244	339244	21.24	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.58	70	27663	2.722	ng	Qvalue # 85
25) Isophorone	7.58	82	215715	8.760	ng	# 64
32) Benzoic acid	8.30	122	118	5.991	ng	# 1
50) 2,6-Dinitrotoluene	10.07	165	39840	9.119	ng	# 25
56) 2,4-Dinitrotoluene	10.07	165	39840	7.084	ng	# 23
70) Phenanthrene	11.59	178	284708	11.711	ng	98
71) Anthracene	11.64	178	105631	4.239	ng	98
72) Carbazole	11.79	167	45013	2.033	ng	97
74) Fluoranthene	12.79	202	883399	33.296	ng	96
77) Pyrene	13.02	202	757538	29.458	ng	100
80) Benzo(a)anthracene	14.21	228	407978	17.501	ng	98
82) Chrysene	14.25	228	309411	14.478	ng	97
85) Indeno(1,2,3-cd)pyrene	17.42	276	116355	6.284	ng	# 88
87) Benzo(b)fluoranthene	15.32	252	415064	25.372	ng	95
88) Benzo(k)fluoranthene	15.32	252	415064	27.600	ng	96
89) Benzo(a)pyrene	15.72	252	205726	14.043	ng	96
90) Dibenzo(a,h)anthracene	17.43	278	30509	2.517	ng	# 76
91) Benzo(g,h,i)perylene	17.92	276	104902	8.789	ng	# 89

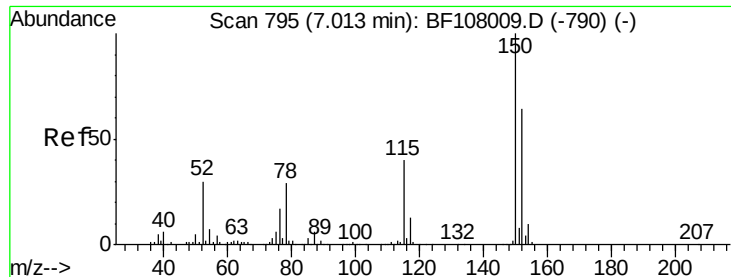
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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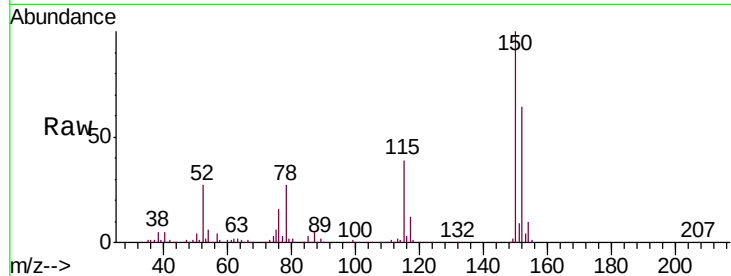


#1

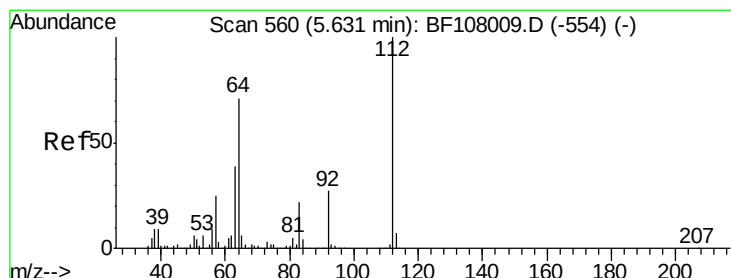
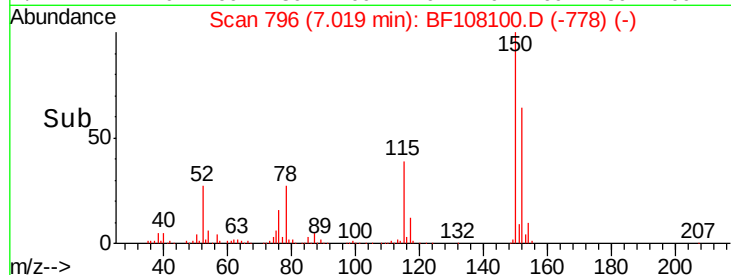
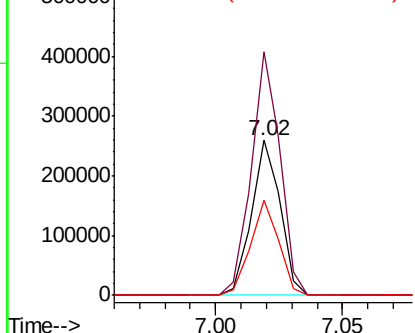
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Instrument :
BNA_F
ClientSampleId :
JC-03-080918-I

Tgt Ion:152 Resp: 204742
Ion Ratio Lower Upper
152 100
150 157.1 124.6 186.8
115 61.2 50.1 75.1



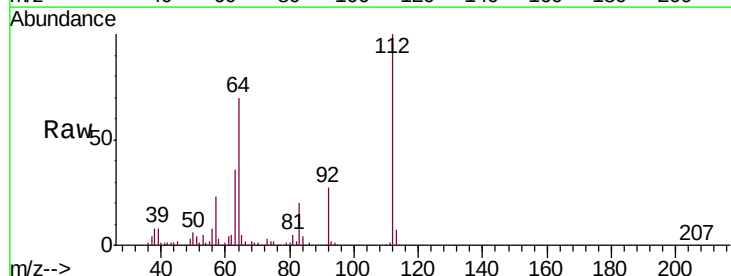
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



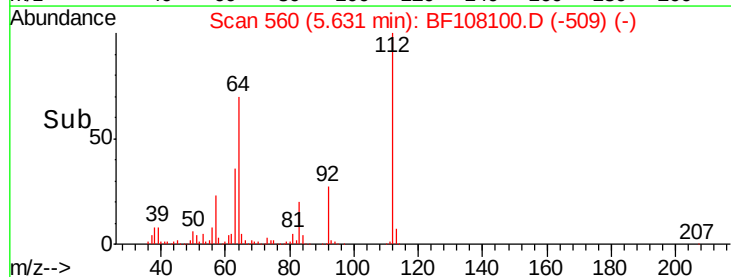
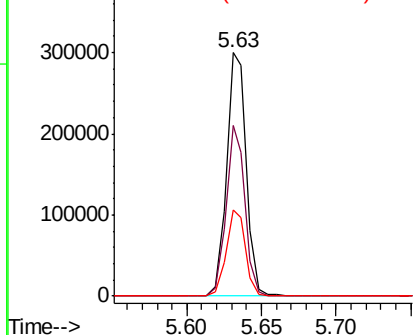
#5

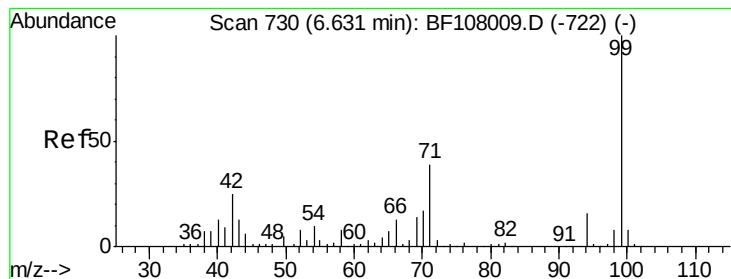
2-Fluorophenol
Concen: 24.960 ng
RT: 5.63 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Tgt Ion:112 Resp: 282274
Ion Ratio Lower Upper
112 100
64 70.1 47.9 71.9
63 35.6 23.7 35.5#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 24.978 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

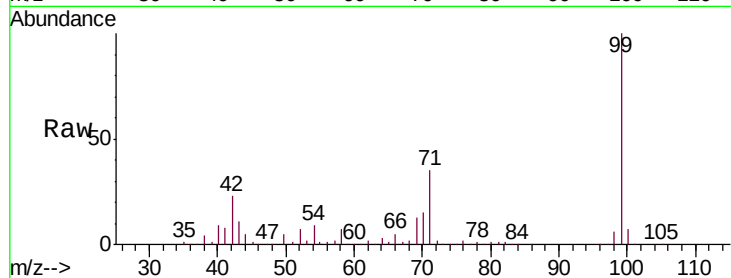
Tgt Ion: 99 Resp: 375367

Ion Ratio Lower Upper

99 100

42 22.7 14.5 21.7#

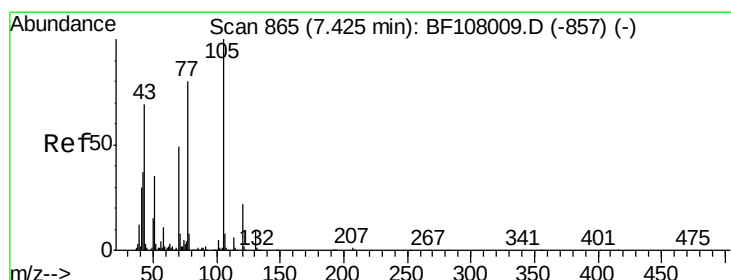
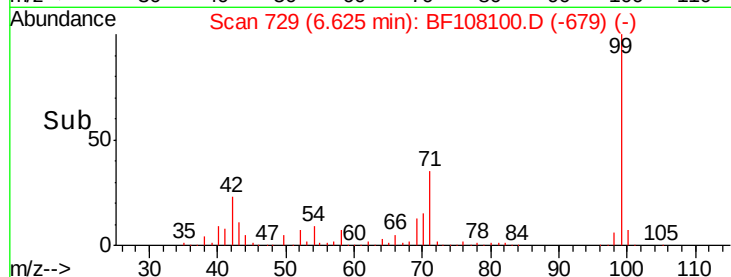
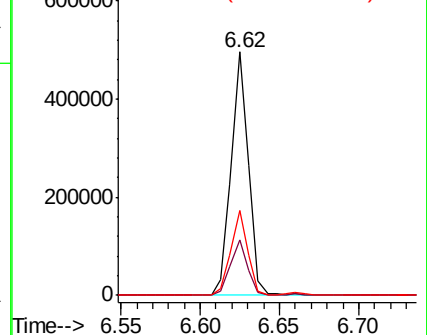
71 34.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.722 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Tgt Ion: 70 Resp: 27663

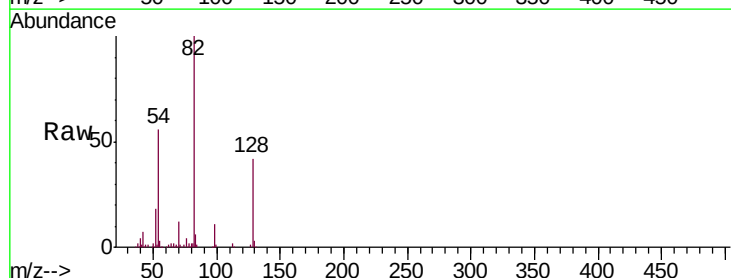
Ion Ratio Lower Upper

70 100

42 56.4 47.5 71.3

101 0.0 7.4 11.2#

130 1.8 16.6 25.0#

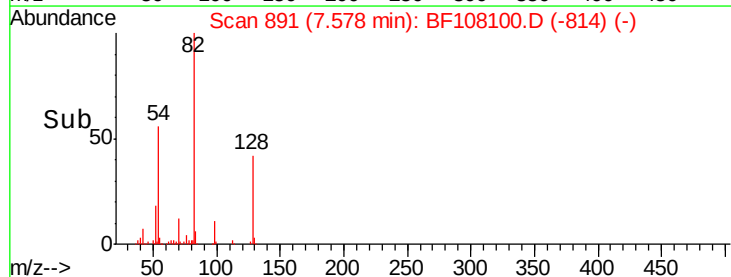
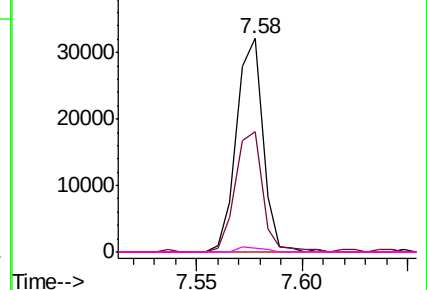


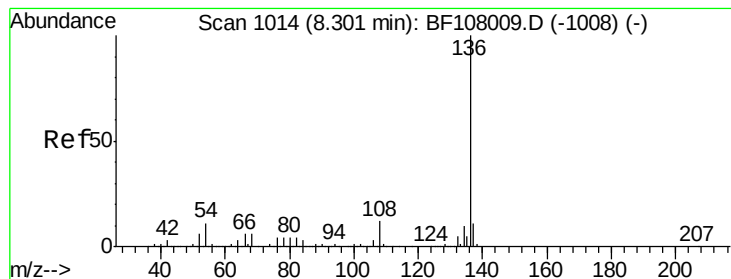
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

Tgt Ion: 136 Resp: 720938

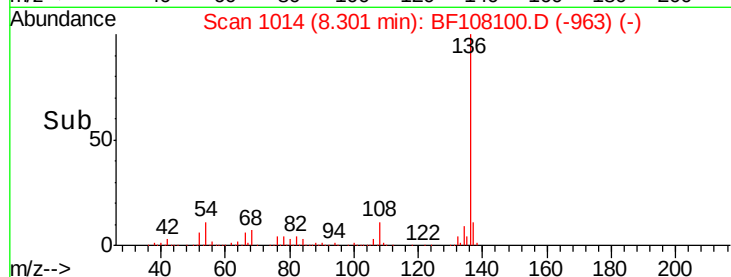
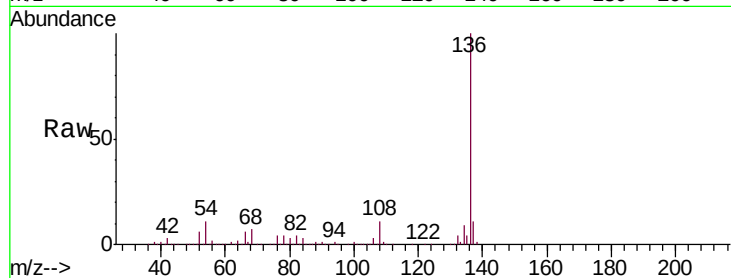
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 11.0 6.6 9.8#

68 6.7 5.0 7.4

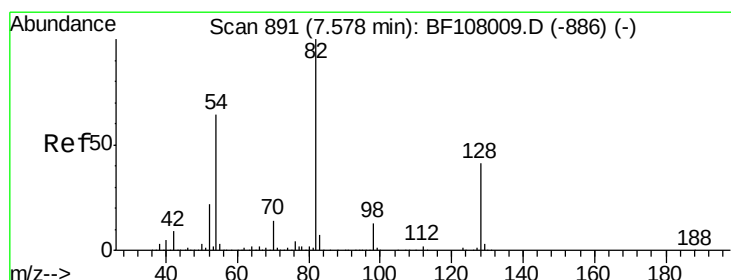
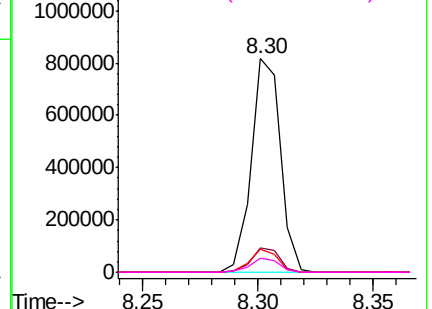


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 16.697 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

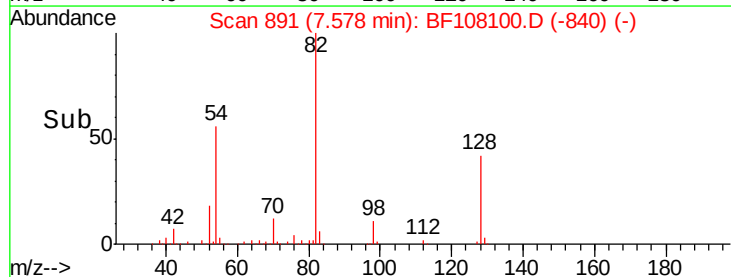
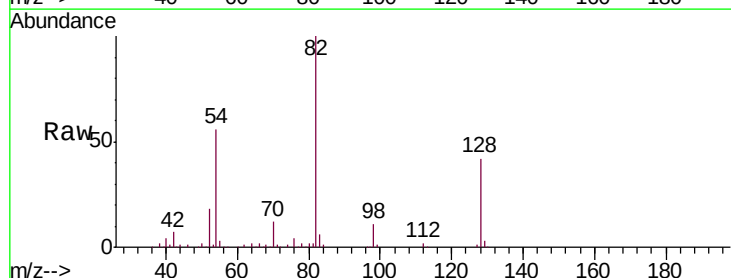
Tgt Ion: 82 Resp: 215719

Ion Ratio Lower Upper

82 100

128 42.2 36.1 54.1

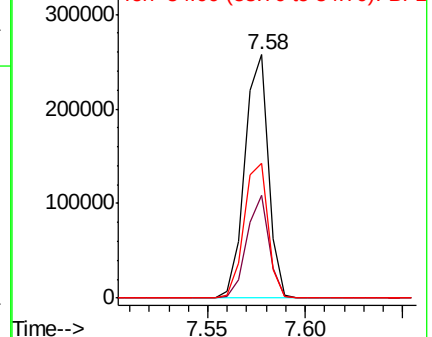
54 55.6 41.4 62.2

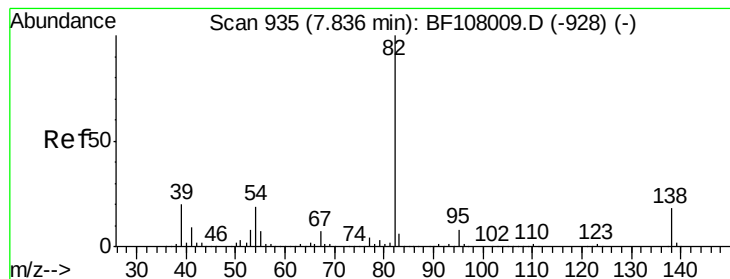


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.760 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

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JC-03-080918-I

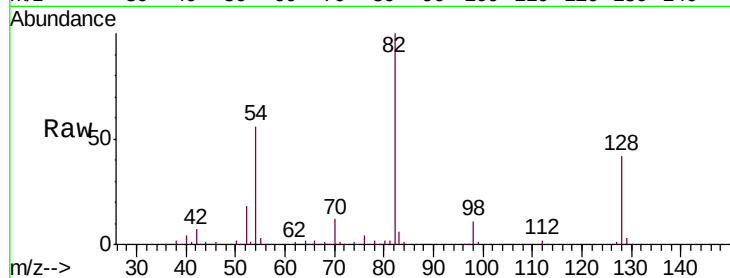
Tgt Ion: 82 Resp: 215715

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

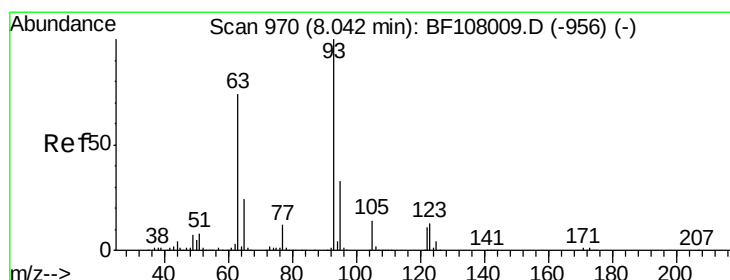
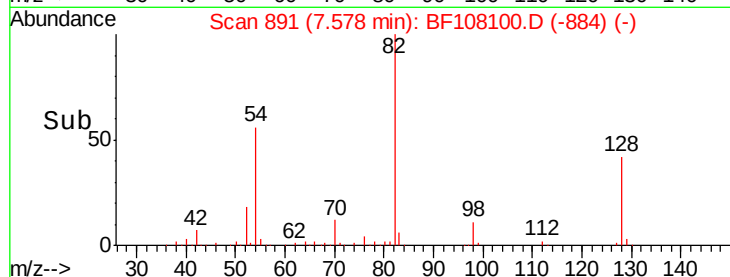
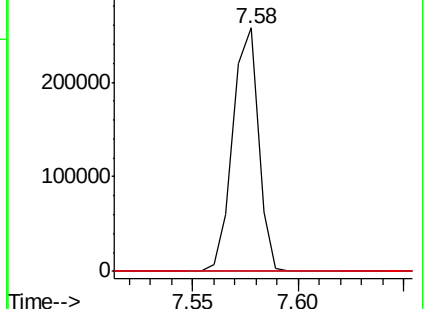
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 5.991 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.26 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

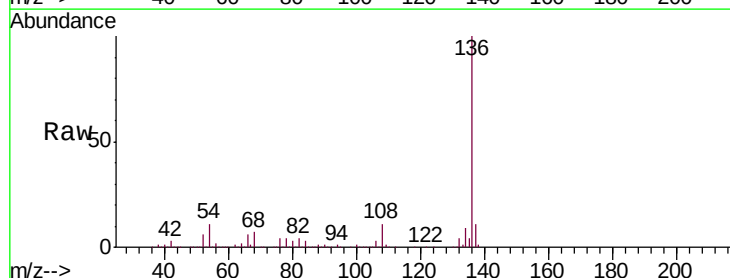
Tgt Ion: 122 Resp: 118

Ion Ratio Lower Upper

122 100

105 233.3 101.1 141.1#

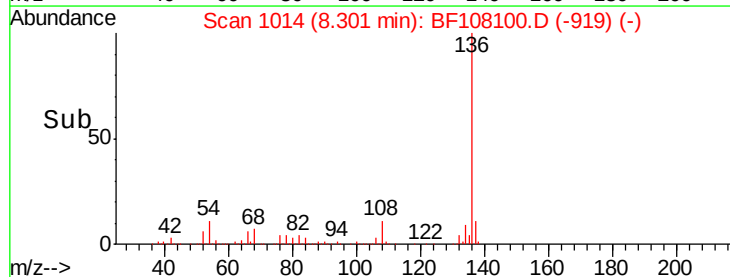
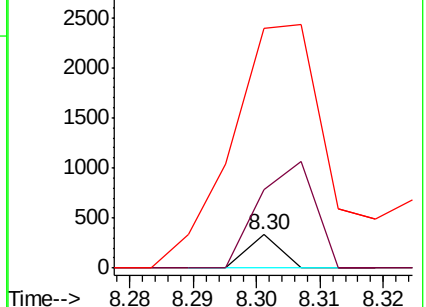
77 719.8 70.7 110.7#

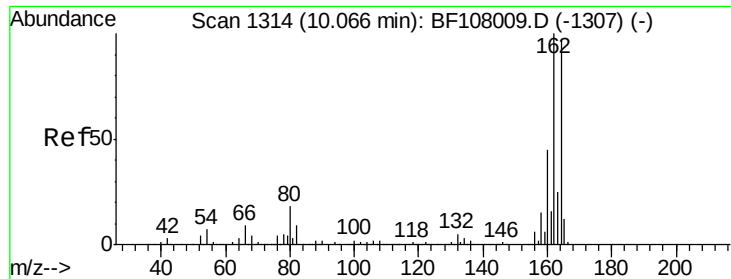


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

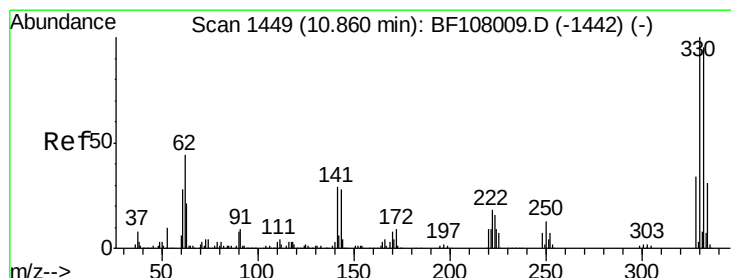
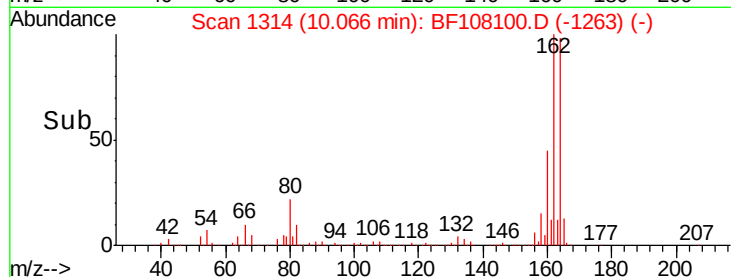
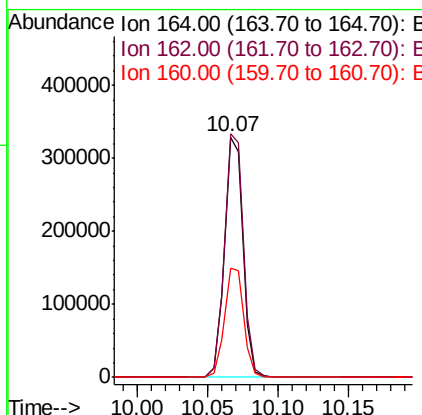
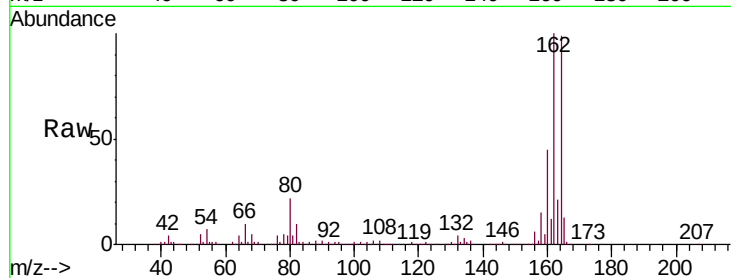




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.07 min Scan# 1314
 Delta R.T. 0.00 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

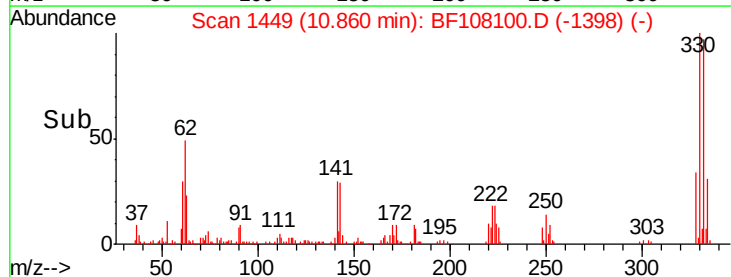
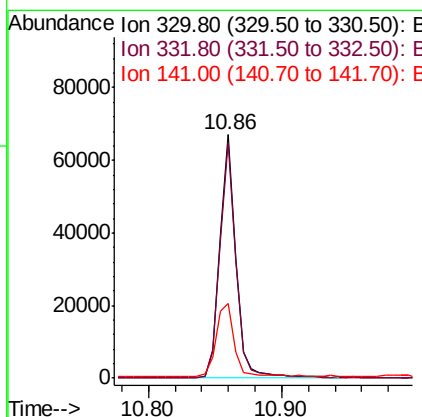
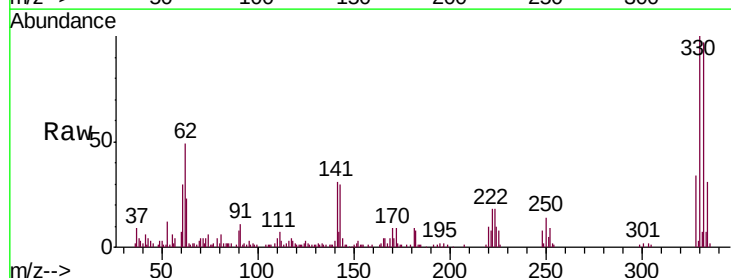
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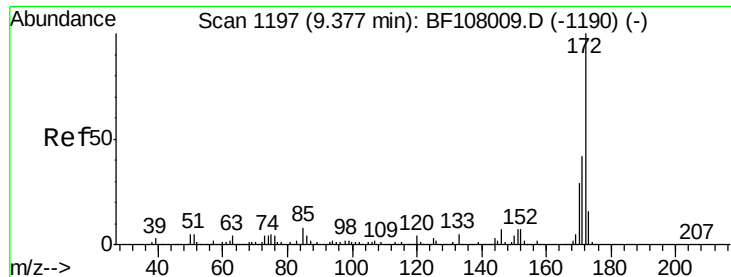
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	86.1	129.1
160	45.5	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 19.371 ng
 RT: 10.86 min Scan# 1449
 Delta R.T. 0.00 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.0	115.6
141	34.5	29.9	44.9

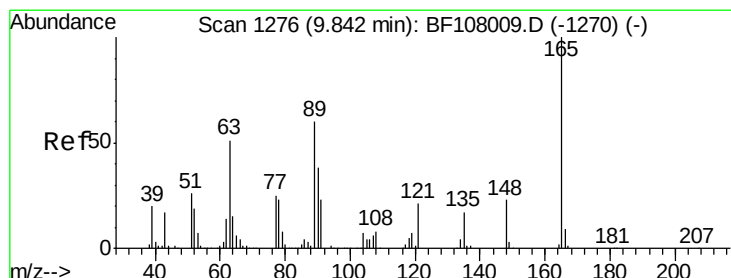
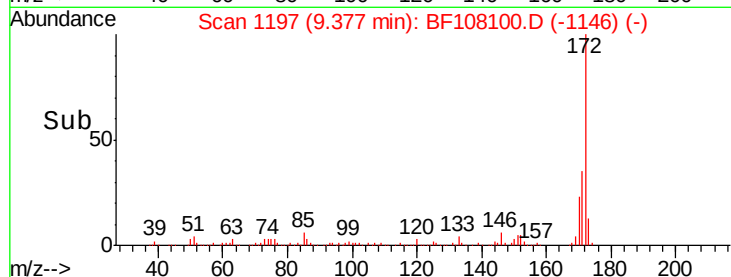
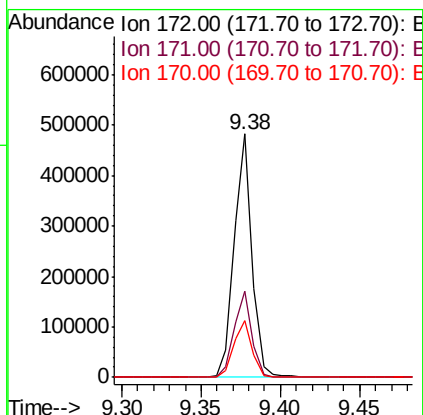
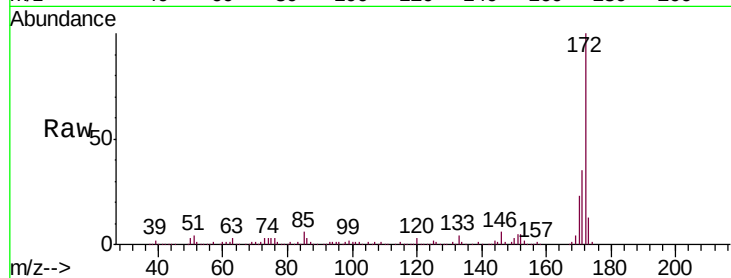




#44
 2-Fluorobiphenyl
 Concen: 20.244 ng
 RT: 9.38 min Scan# 1197
 Delta R.T. 0.00 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

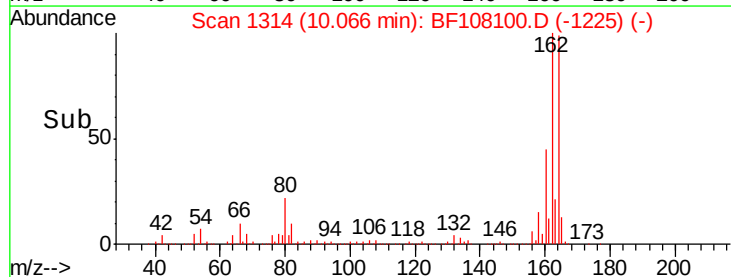
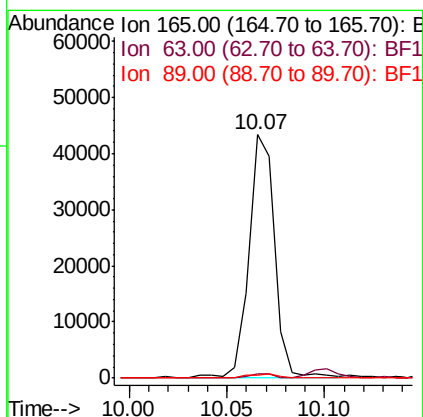
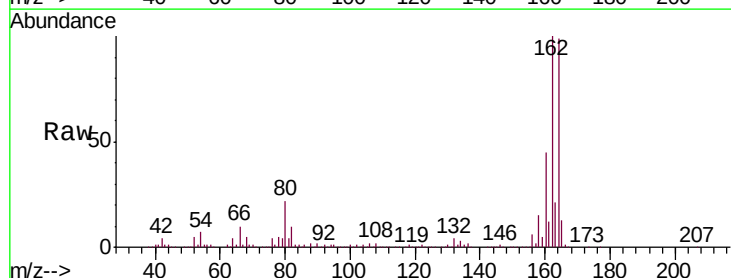
Instrument :
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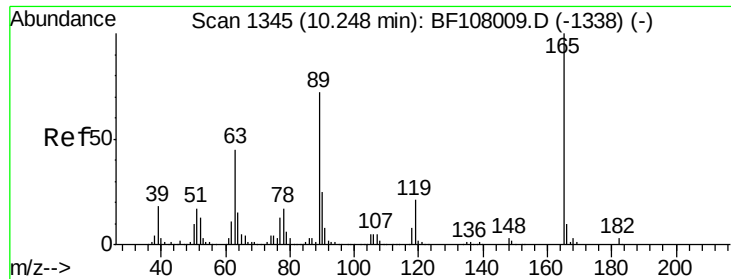
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.5	19.6	29.4



#50
 2,6-Dinitrotoluene
 Concen: 9.119 ng
 RT: 10.07 min Scan# 1314
 Delta R.T. 0.22 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	44.7	67.1#
89	1.2	44.0	66.0#

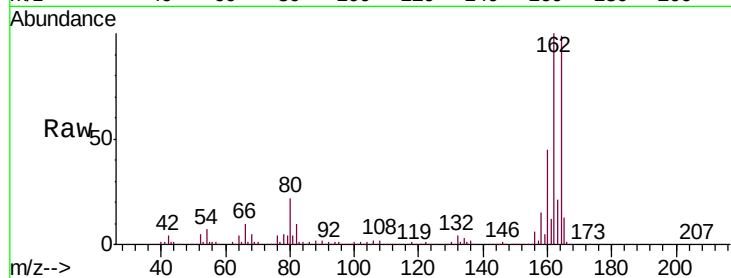




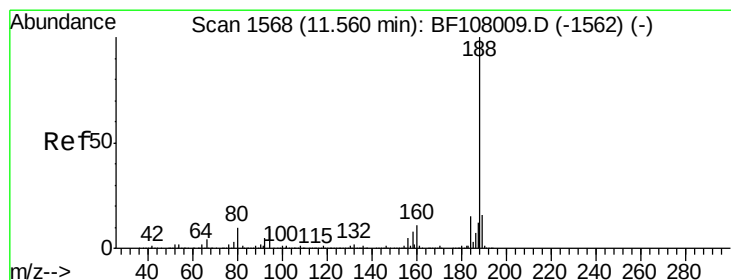
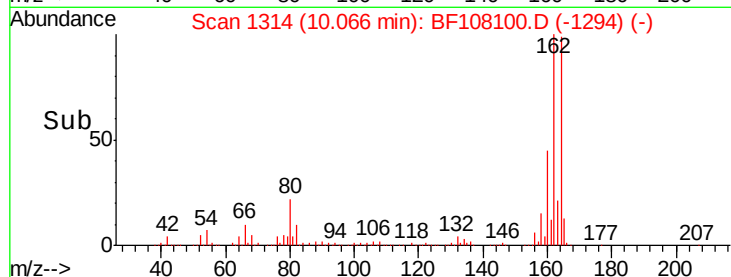
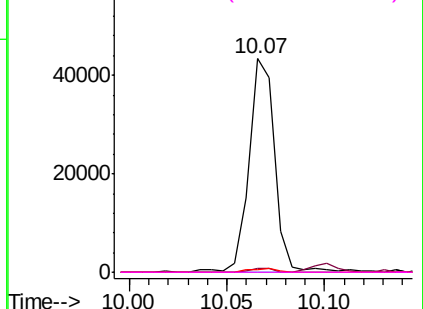
#56
2,4-Dinitrotoluene
Concen: 7.084 ng
RT: 10.07 min Scan# 1314
Delta R.T. -0.18 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Instrument :
BNA_F
ClientSampleId :
JC-03-080918-I

Tgt Ion:165 Resp: 39840
Ion Ratio Lower Upper
165 100
63 1.5 36.4 54.6#
89 1.2 57.8 86.6#
182 0.0 1.6 2.4#

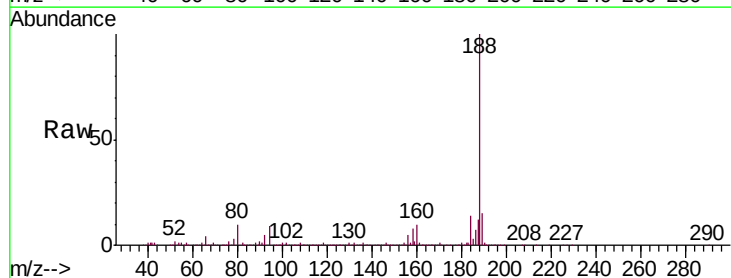


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

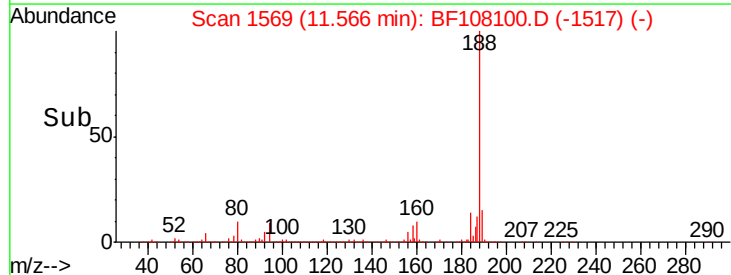
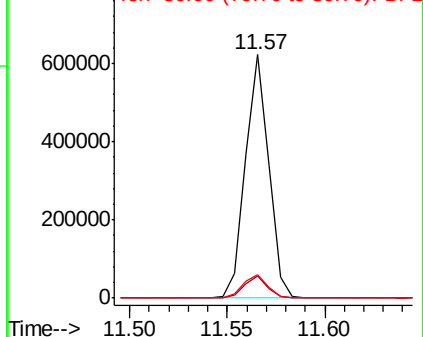


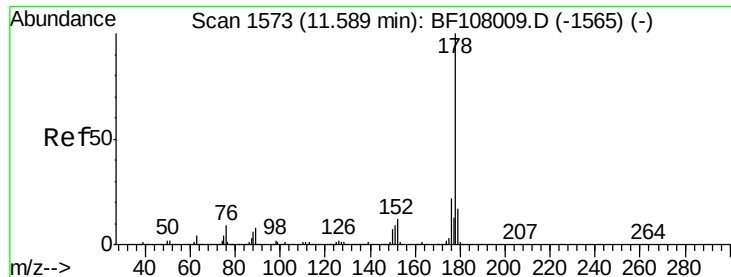
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.57 min Scan# 1569
Delta R.T. 0.01 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Tgt Ion:188 Resp: 515421
Ion Ratio Lower Upper
188 100
94 8.9 8.5 12.7
80 9.7 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 11.711 ng

RT: 11.59 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

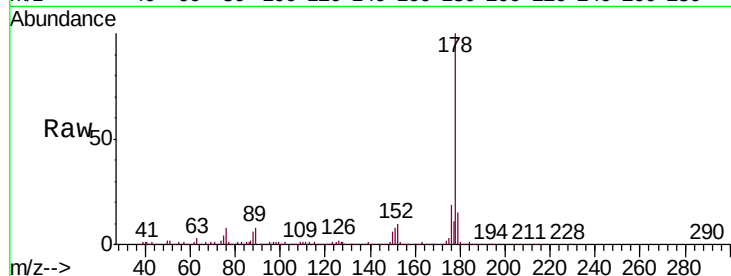
Tgt Ion:178 Resp: 284708

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

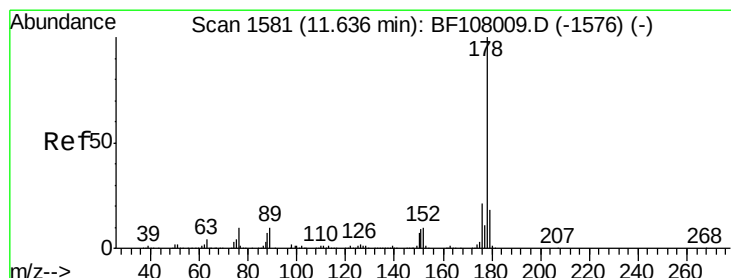
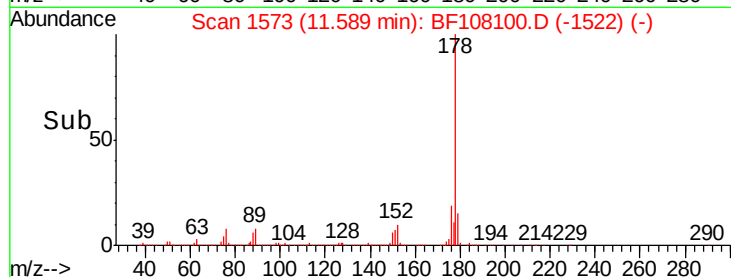
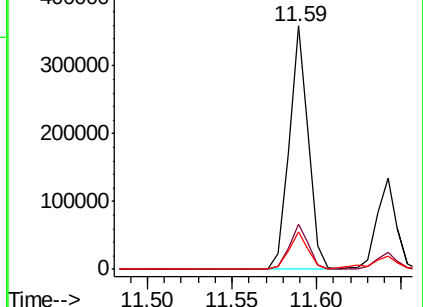
179 15.2 13.0 19.6



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



#71

Anthracene

Concen: 4.239 ng

RT: 11.64 min Scan# 1582

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

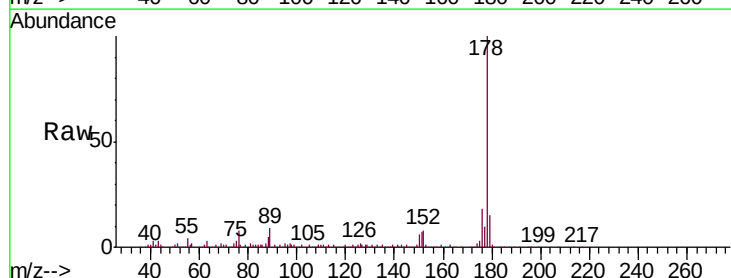
Tgt Ion:178 Resp: 105631

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

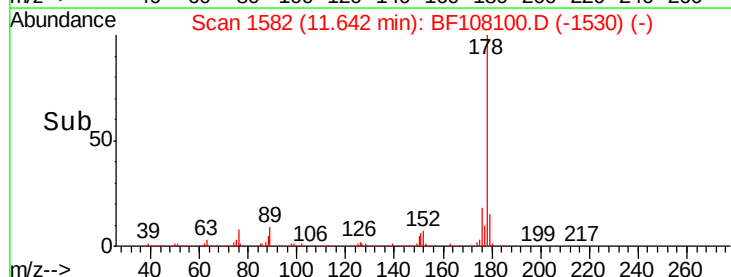
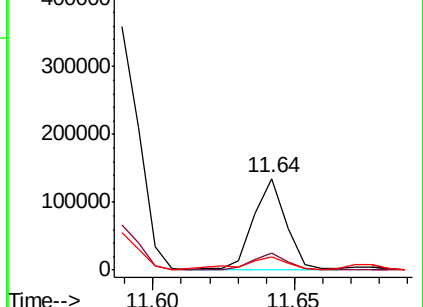
179 15.1 12.6 19.0

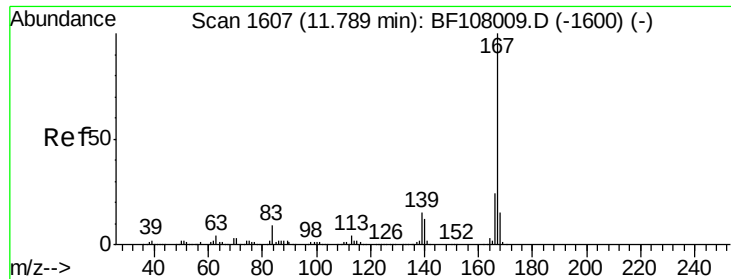


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

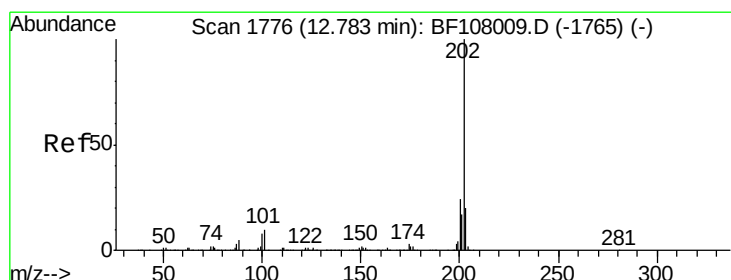
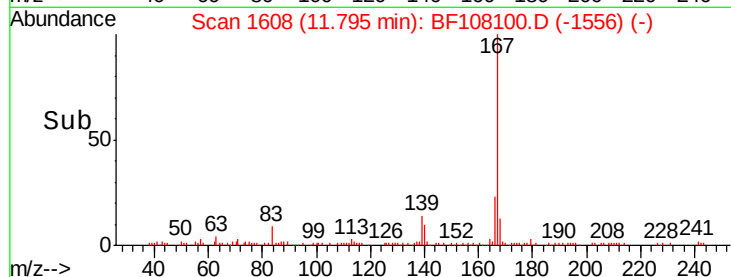
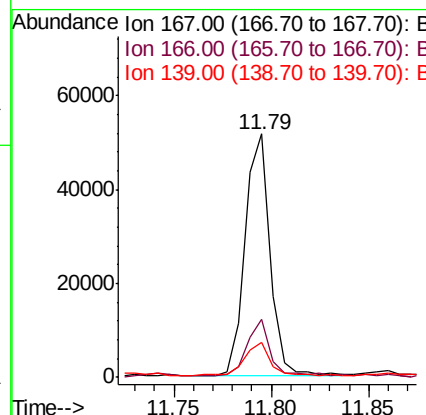
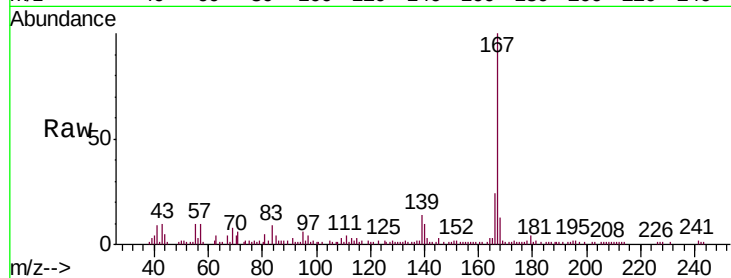




#72
 Carbazole
 Concen: 2.033 ng
 RT: 11.79 min Scan# 1608
 Delta R.T. 0.01 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

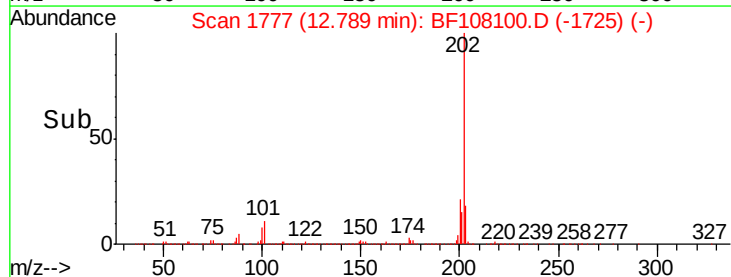
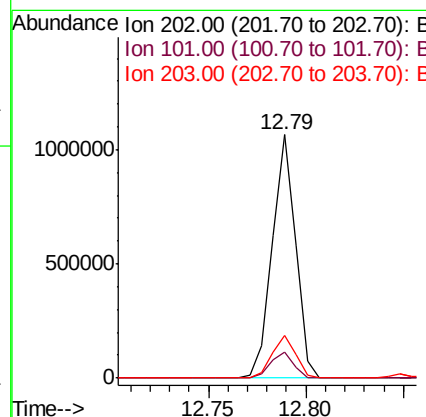
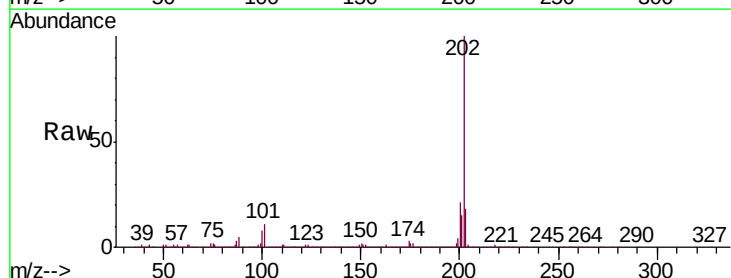
Instrument :
 BNA_F
 ClientSampleId :
 JC-03-080918-I

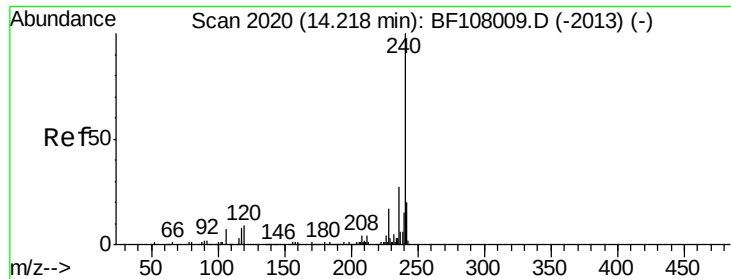
Tgt Ion:	167	Resp:	45013
Ion	Ratio	Lower	Upper
167	100		
166	23.6	17.6	26.4
139	14.2	10.9	16.3



#74
 Fluoranthene
 Concen: 33.296 ng
 RT: 12.79 min Scan# 1777
 Delta R.T. 0.01 min
 Lab File: BF108100.D
 Acq: 10 Aug 2018 22:41

Tgt Ion:	202	Resp:	883399
Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

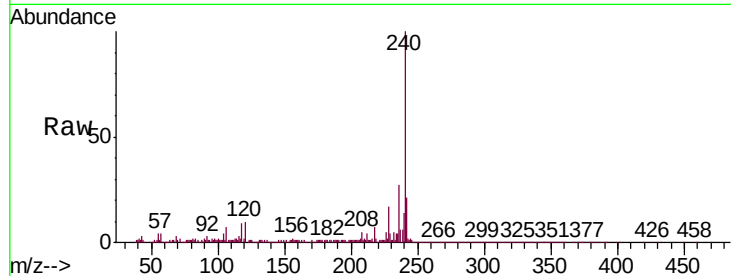
Tgt Ion:240 Resp: 406190

Ion Ratio Lower Upper

240 100

120 10.1 9.5 14.3

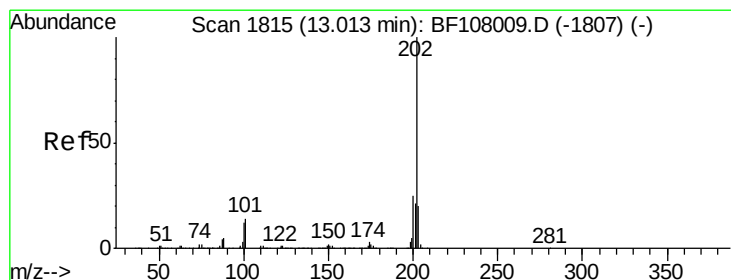
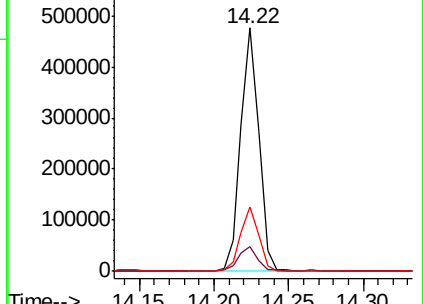
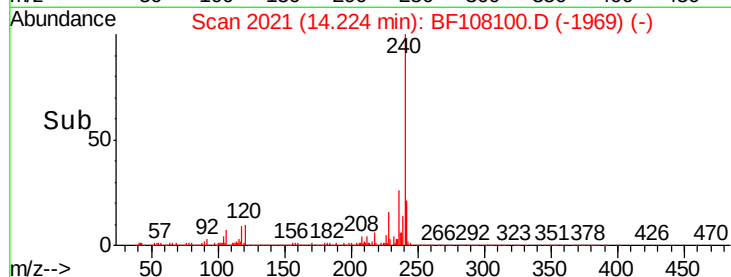
236 26.6 20.7 31.1



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

Pyrene

Concen: 29.458 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

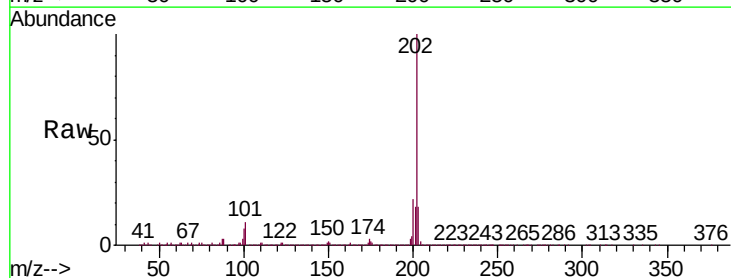
Tgt Ion:202 Resp: 757538

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

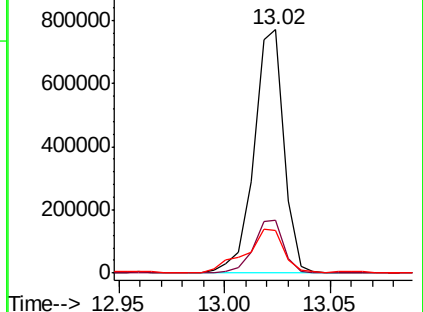
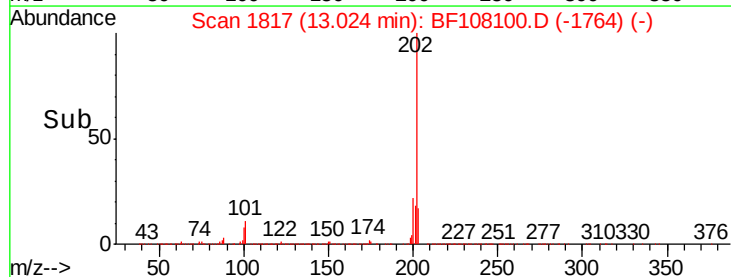
203 17.6 14.3 21.5

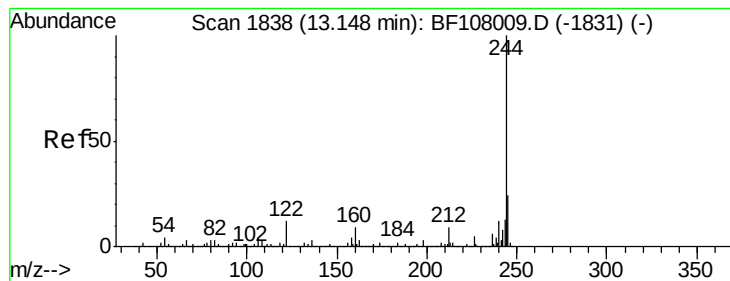


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 21.235 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

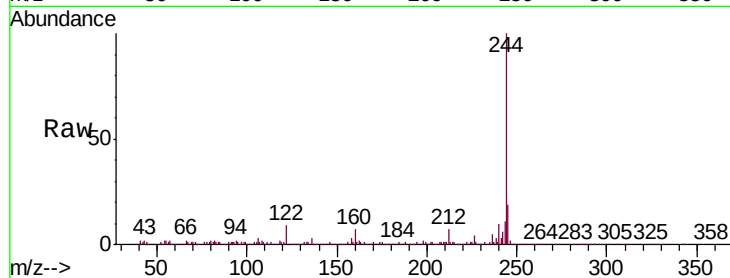
Tgt Ion:244 Resp: 339244

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

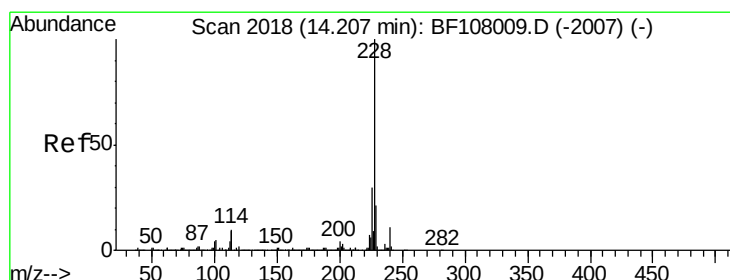
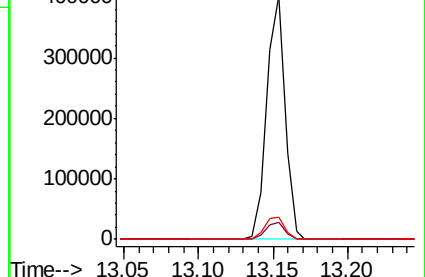
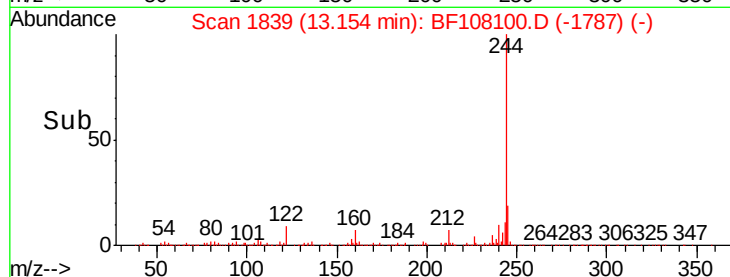
122 9.1 11.0 16.4#



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



#80

Benzo(a)anthracene

Concen: 17.501 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

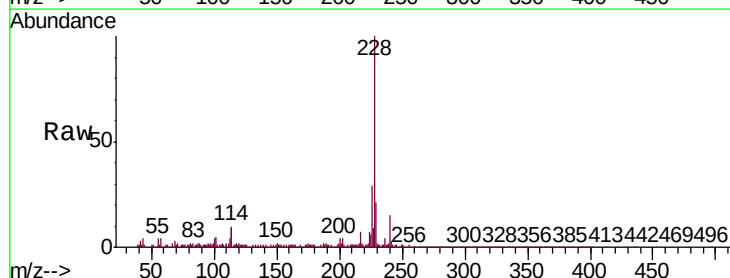
Tgt Ion:228 Resp: 407978

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

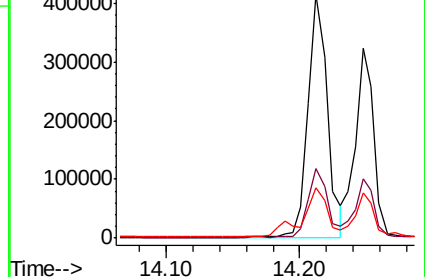
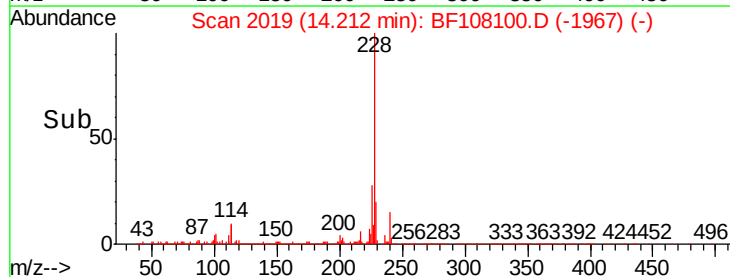
229 20.8 15.8 23.6

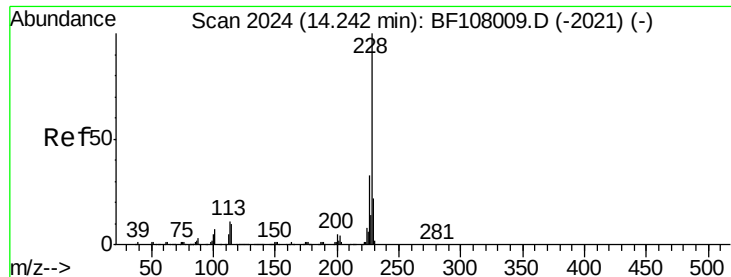


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 14.478 ng

RT: 14.25 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

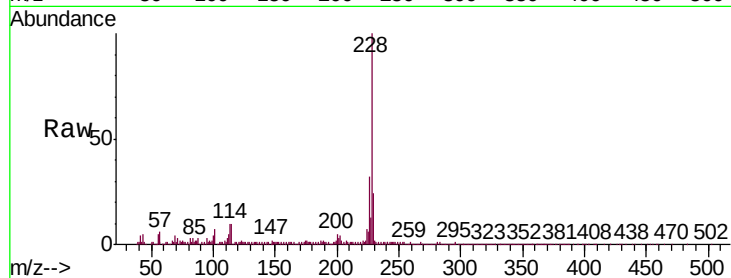
Tgt Ion:228 Resp: 309411

Ion Ratio Lower Upper

228 100

226 31.6 25.0 37.6

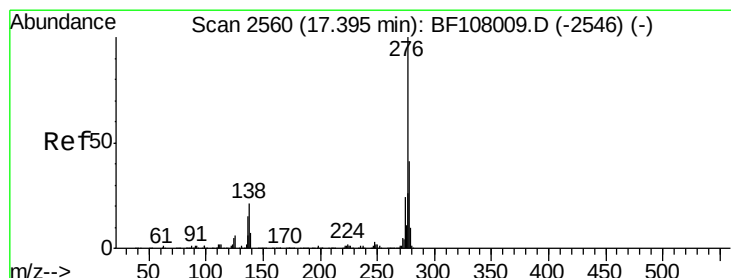
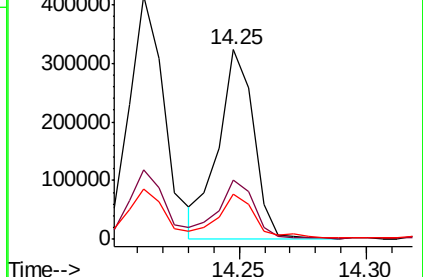
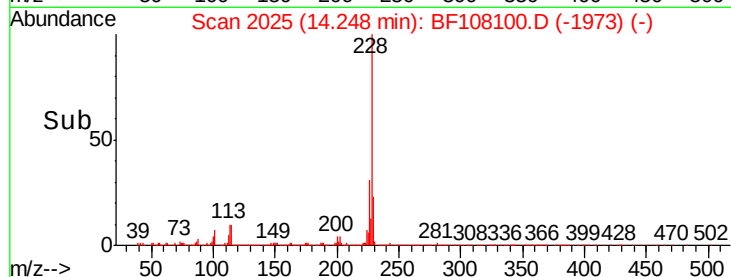
229 23.8 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.284 ng

RT: 17.42 min Scan# 2564

Delta R.T. 0.02 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

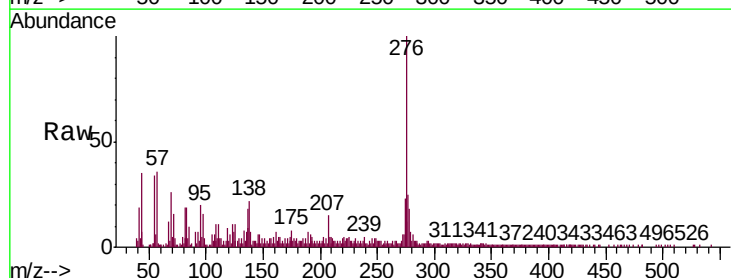
Tgt Ion:276 Resp: 116355

Ion Ratio Lower Upper

276 100

138 19.6 25.0 37.6#

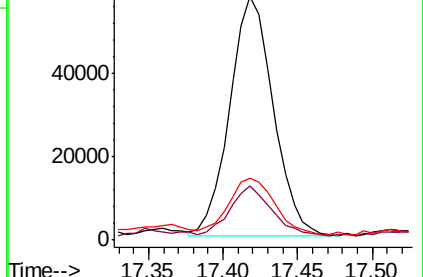
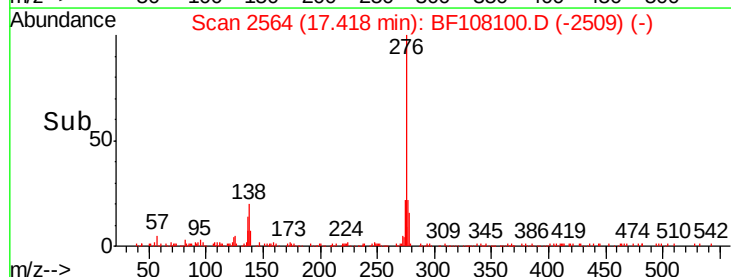
277 25.2 20.1 30.1

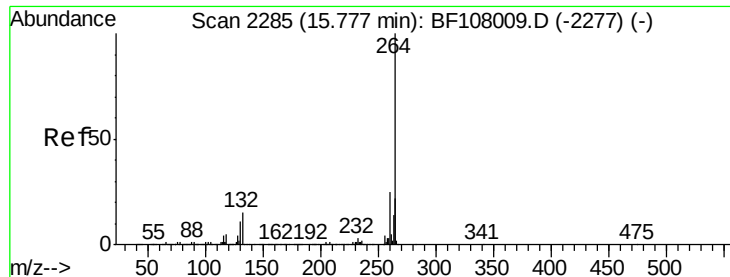


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

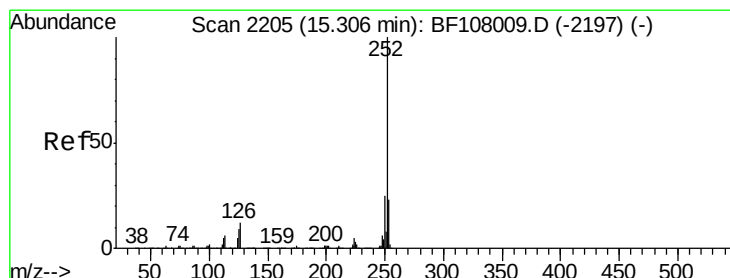
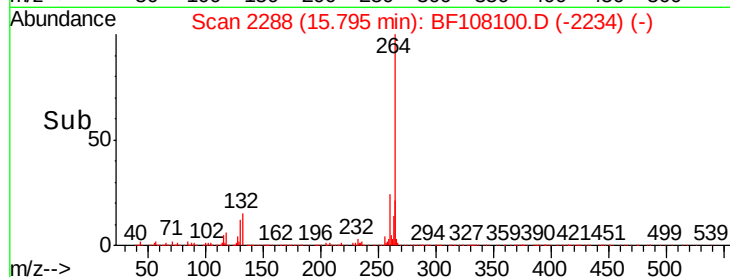
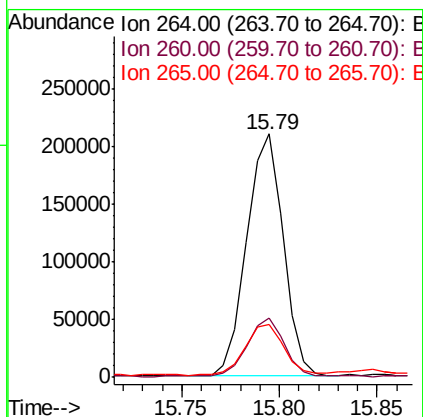
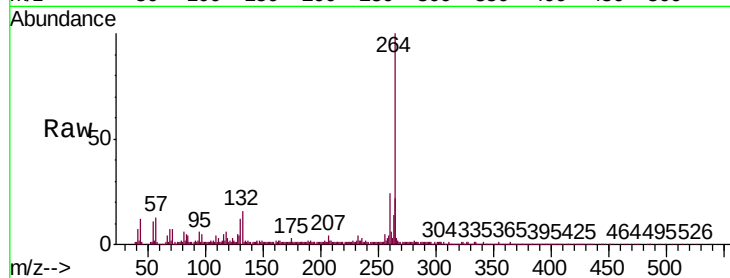




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2288
Delta R.T. 0.02 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

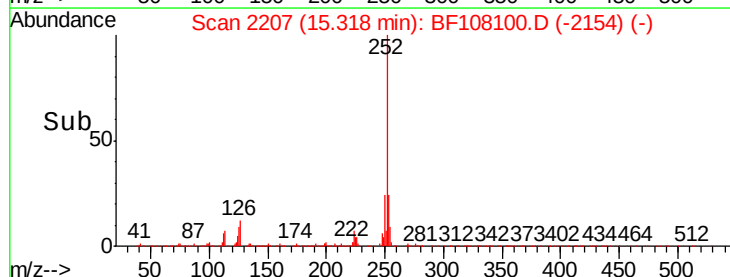
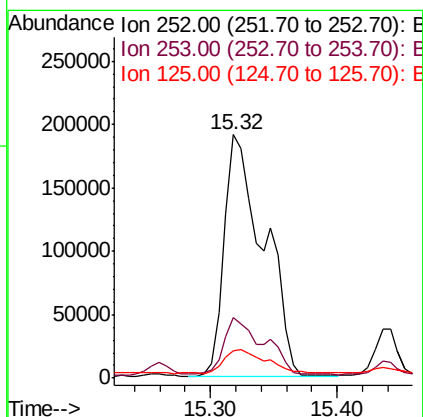
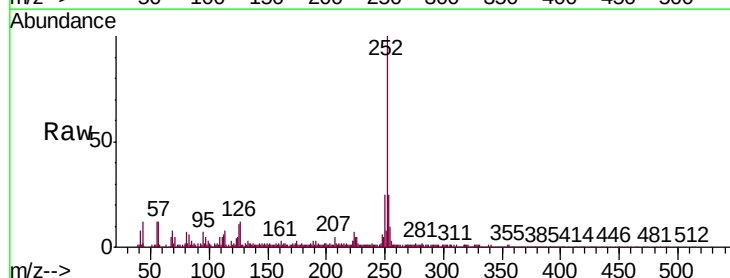
Instrument :
BNA_F
ClientSampleId :
JC-03-080918-I

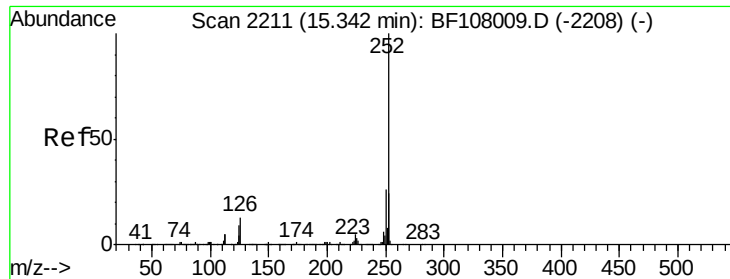
Tgt Ion:264 Resp: 273779
Ion Ratio Lower Upper
264 100
260 24.5 19.2 28.8
265 21.6 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 25.372 ng
RT: 15.32 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Tgt Ion:252 Resp: 415064
Ion Ratio Lower Upper
252 100
253 24.7 17.0 25.6
125 11.3 9.0 13.6

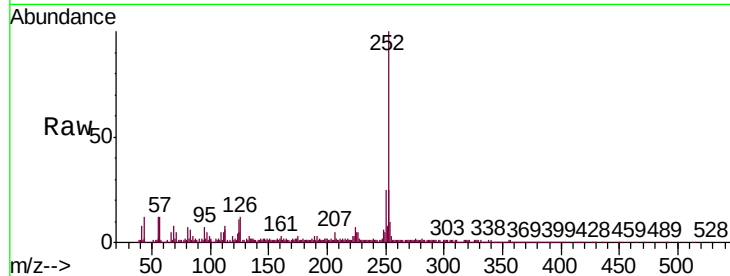




#88
Benzo(k)fluoranthene
Concen: 27.600 ng
RT: 15.32 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Instrument :
BNA_F
ClientSampleId :
JC-03-080918-I

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	11.3	10.2	15.2

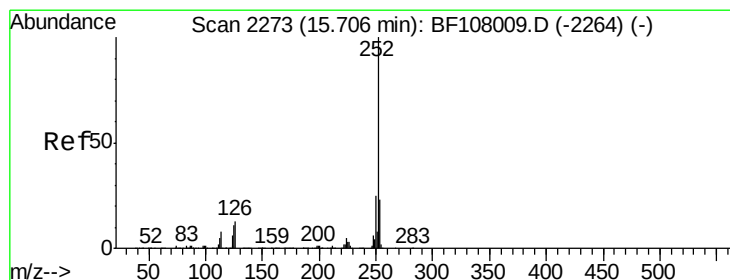
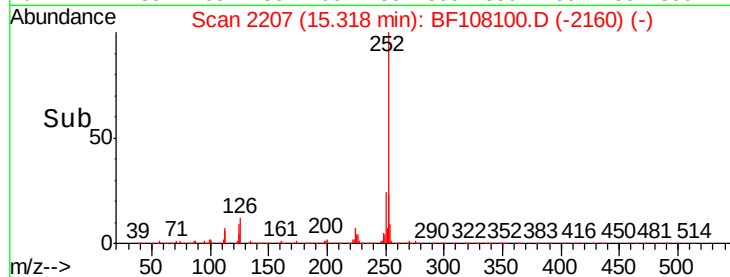
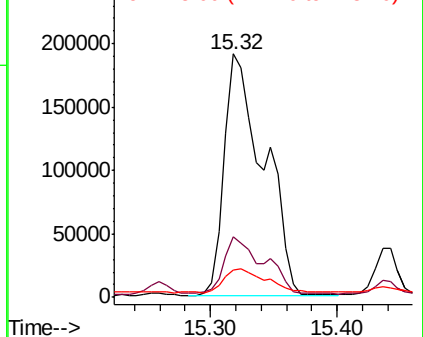


Abundance

Ion 252.00 (251.70 to 252.70): E

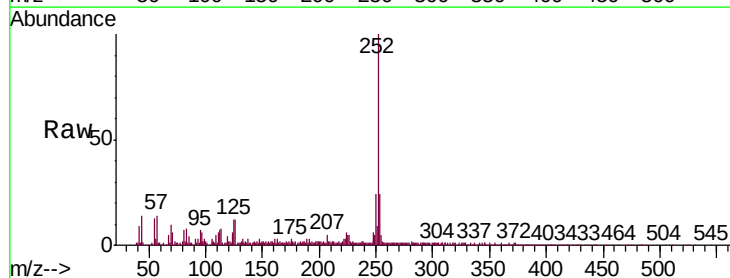
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 14.043 ng
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF108100.D
Acq: 10 Aug 2018 22:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	11.7	9.8	14.6

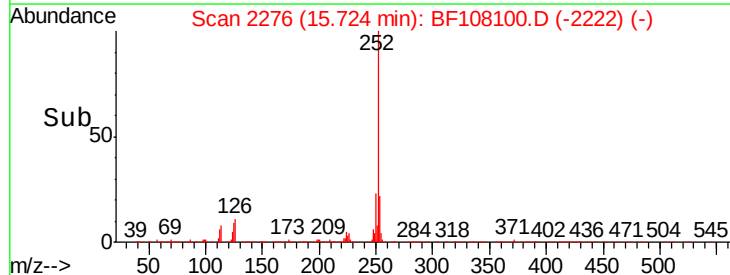
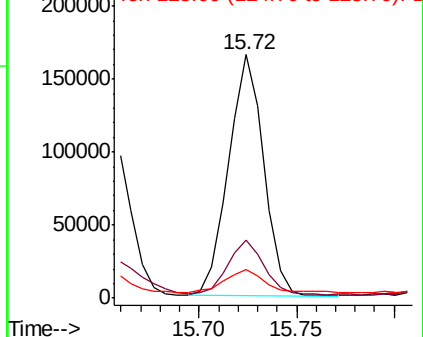


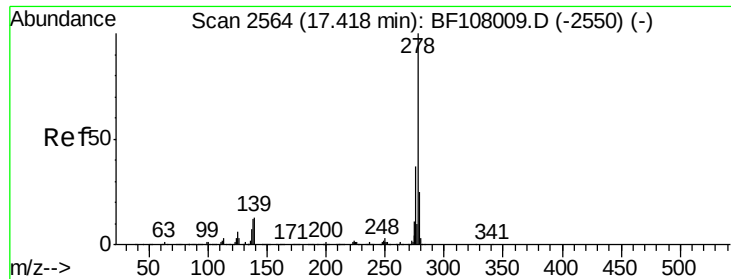
Abundance

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

Dibenzo(a,h)anthracene

Concen: 2.517 ng

RT: 17.43 min Scan# 2566

Delta R.T. 0.01 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

Instrument :

BNA_F

ClientSampleId :

JC-03-080918-I

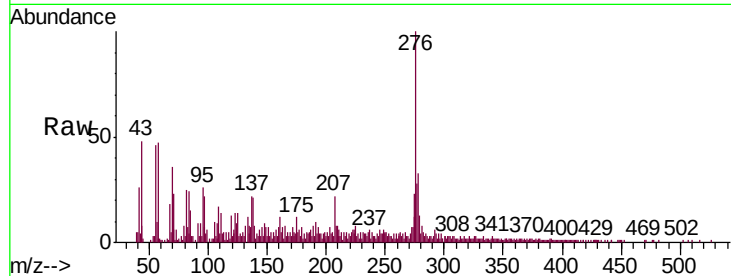
Tgt Ion:278 Resp: 30509

Ion Ratio Lower Upper

278 100

139 25.4 15.9 23.9#

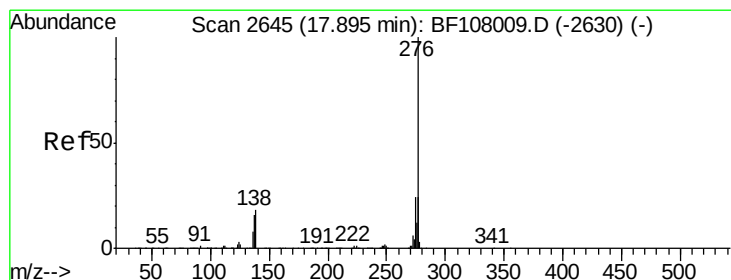
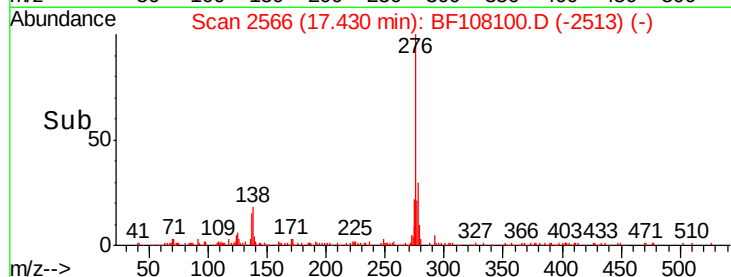
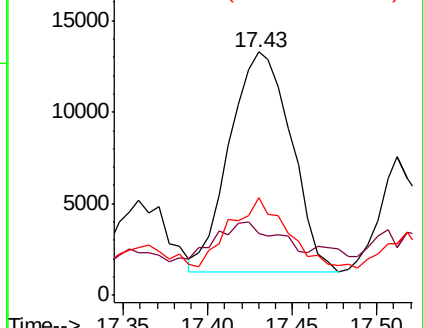
279 40.1 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 8.789 ng

RT: 17.92 min Scan# 2649

Delta R.T. 0.02 min

Lab File: BF108100.D

Acq: 10 Aug 2018 22:41

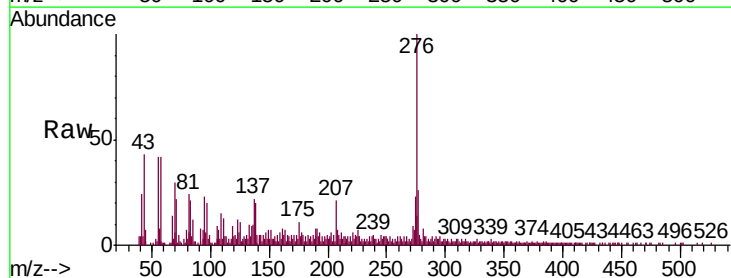
Tgt Ion:276 Resp: 104902

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 19.8 21.8 32.8#



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

