

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
 Data File : BF111163.D
 Acq On : 7 Dec 2018 2:44
 Operator : JU/SJ
 Sample : J6195-01 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 07 07:32:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 05 17:30:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	517604	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	1918060	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	764632	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	1097496	20.00	ng	0.00
76) Chrysene-d12	13.96	240	938858	20.00	ng	0.00
87) Perylene-d12	15.40	264	659821	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1698670	51.21	ng	0.00
7) Phenol-d6	6.43	99	2095572	49.04	ng	0.00
23) Nitrobenzene-d5	7.36	82	1255327	38.75	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	284742	46.85	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1952165	39.58	ng	0.00
79) Terphenyl-d14	12.91	244	1373048	29.95	ng	0.00

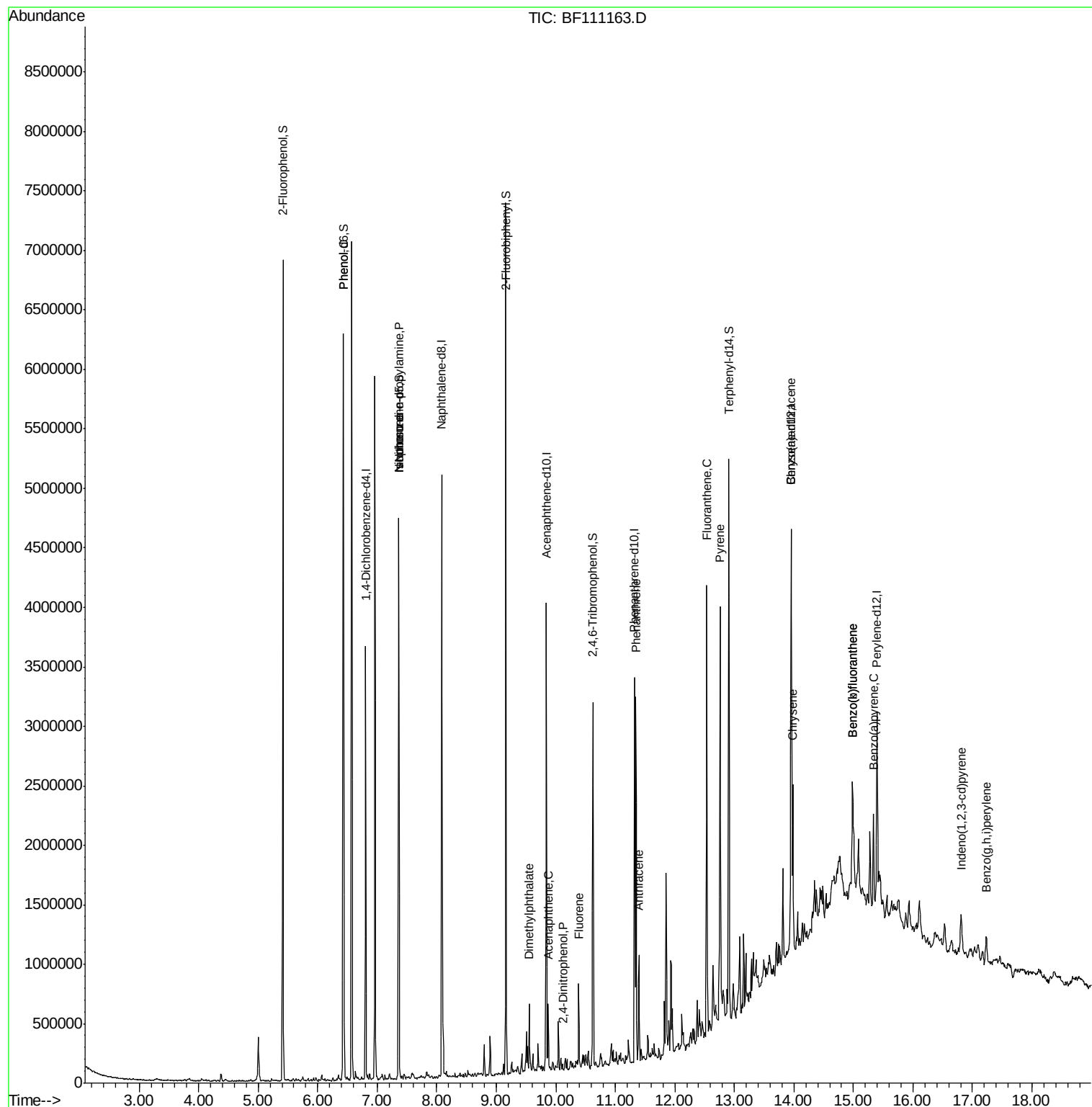
Target Compounds				Qvalue		
9) Benzaldehyde	6.43	77	5613	Below Cal	#	6
10) Phenol	6.44	94	134876	2.895	ng	97
19) n-Nitroso-di-n-propylamine	7.36	70	169261	5.895	ng	# 77
25) Isophorone	7.36	82	1250649	21.034	ng	# 65
50) Dimethylphthalate	9.56	163	194817	3.661	ng	96
52) Acenaphthene	9.87	154	109541	2.439	ng	96
54) 2,4-Dinitrophenol	10.13	184	123	6.636	ng	88
58) Fluorene	10.39	166	171403	3.929	ng	96
71) Phenanthrene	11.35	178	1019341	19.309	ng	96
72) Anthracene	11.40	178	322720	6.065	ng	93
75) Fluoranthene	12.53	202	1371963	26.559	ng	97
77) Benzidine	12.64	184	1808	Below Cal	#	1
78) Pyrene	12.76	202	1302550	17.808	ng	95
81) Benzo(a)anthracene	13.95	228	623413	11.333	ng	98
83) Chrysene	13.99	228	583670	10.688	ng	95
86) Indeno(1,2,3-cd)pyrene	16.81	276	197933	4.514	ng	# 90
88) Benzo(b)fluoranthene	14.99	252	709701	18.982	ng	# 96
89) Benzo(k)fluoranthene	14.99	252	709701	19.635	ng	# 96
90) Benzo(a)pyrene	15.34	252	381345	11.120	ng	95
92) Benzo(a,h,i)perylene	17.23	276	194876	6.738	ng	99

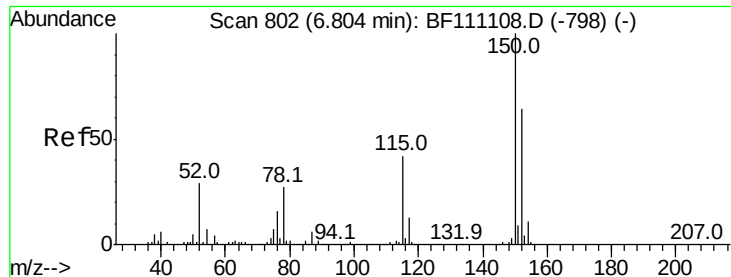
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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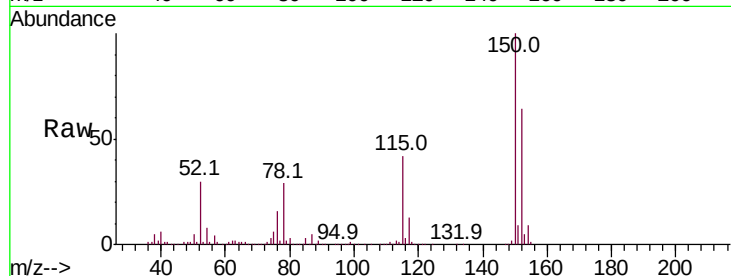


#1

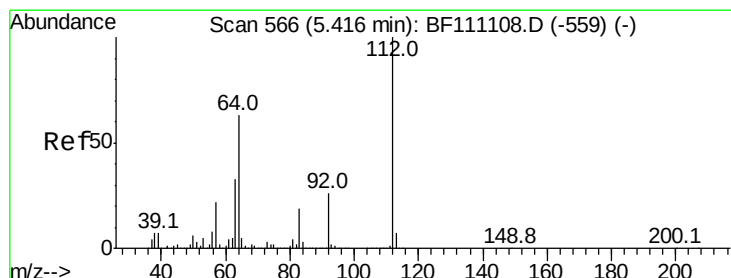
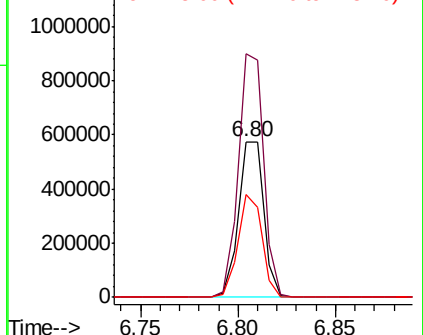
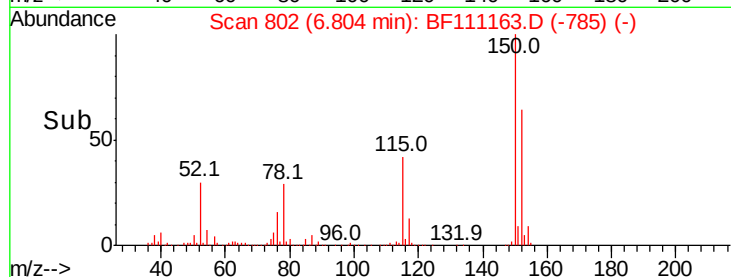
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 517604
Ion Ratio Lower Upper
152 100
150 156.3 124.6 187.0
115 65.7 52.2 78.2



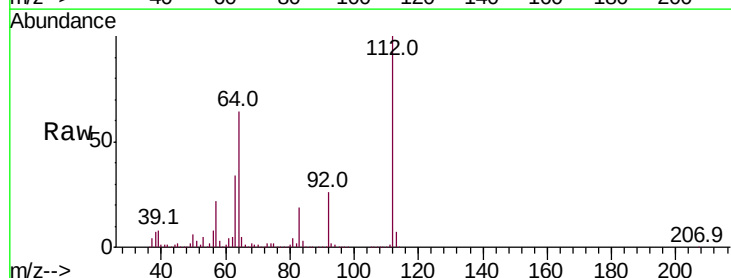
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



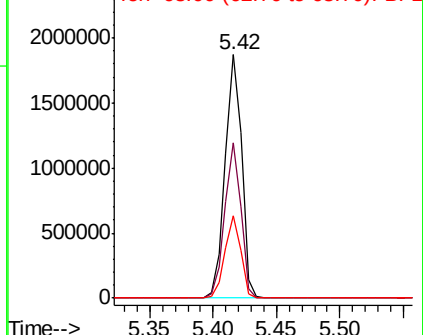
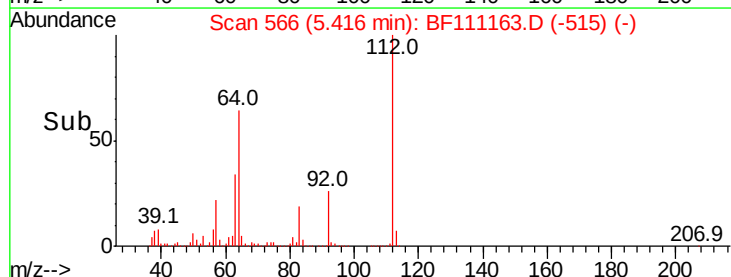
#5

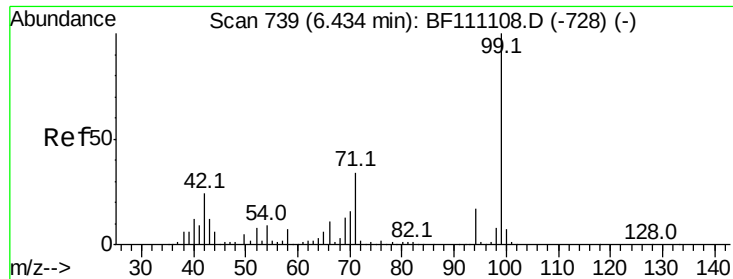
2-Fluorophenol
Concen: 51.211 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:112 Resp: 1698670
Ion Ratio Lower Upper
112 100
64 63.7 50.2 75.4
63 33.6 26.6 39.8



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: 49.044 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.00 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

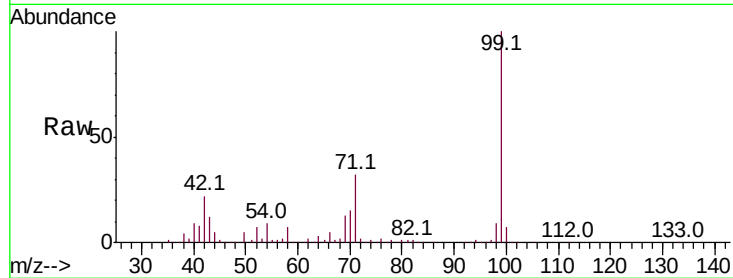
Tot Ion: 99 Resp: 2095572

Ion Ratio Lower Upper

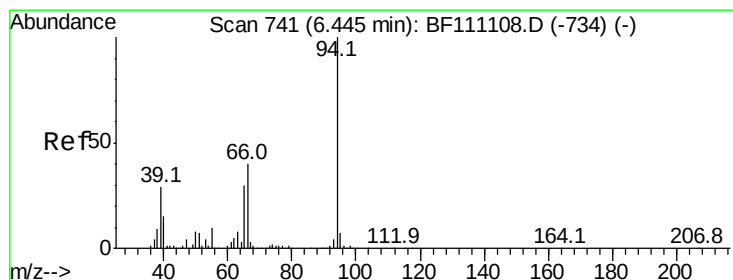
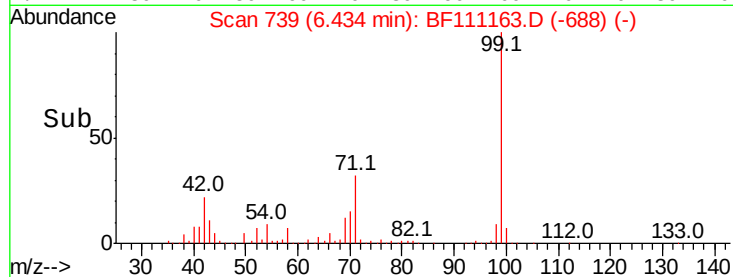
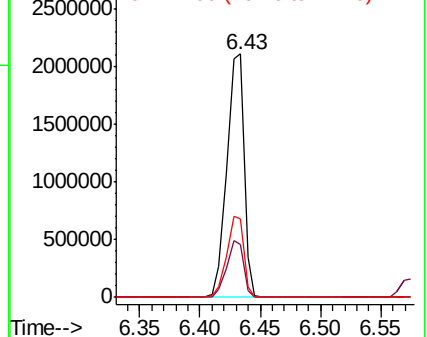
99 100

42 21.7 19.3 28.9

71 32.3 27.4 41.2



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



#10

Phenol

Concen: 2.895 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

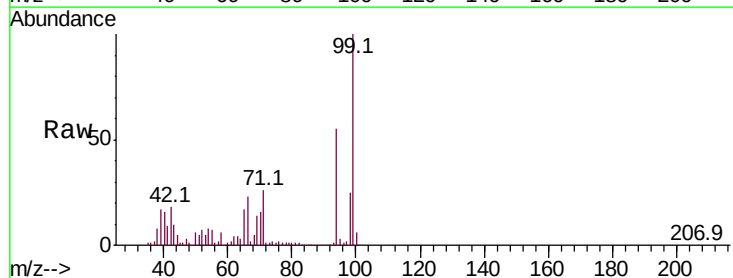
Tgt Ion: 94 Resp: 134876

Ion Ratio Lower Upper

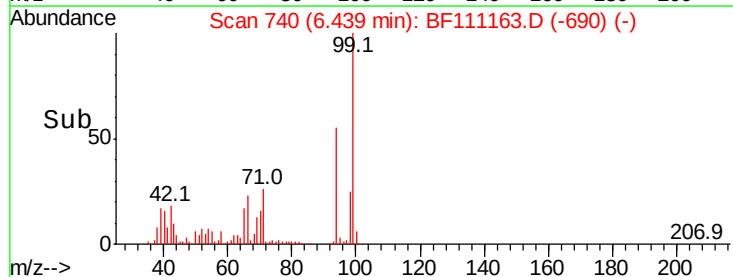
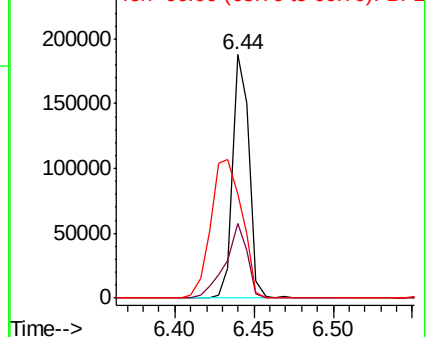
94 100

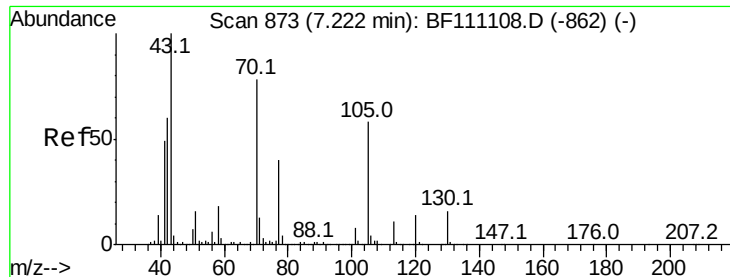
65 30.6 10.5 50.5

66 42.9 19.8 59.8



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

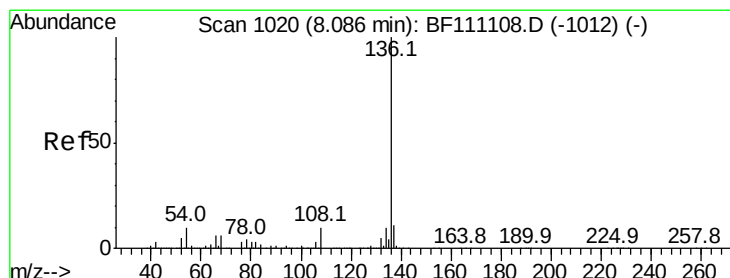
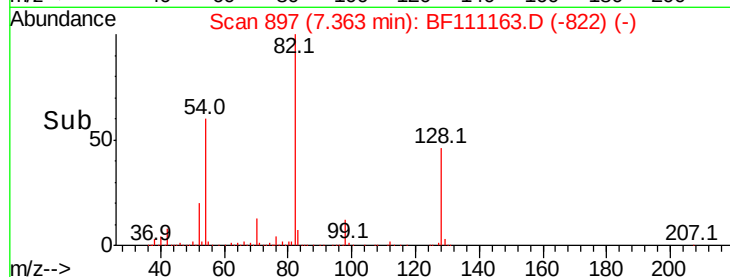
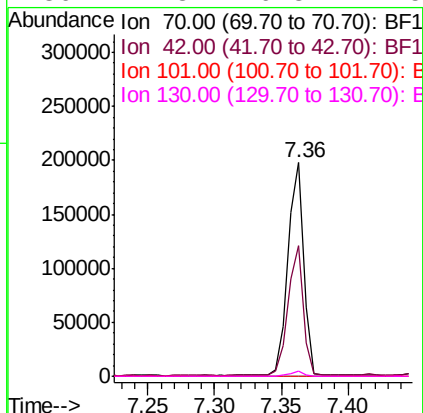
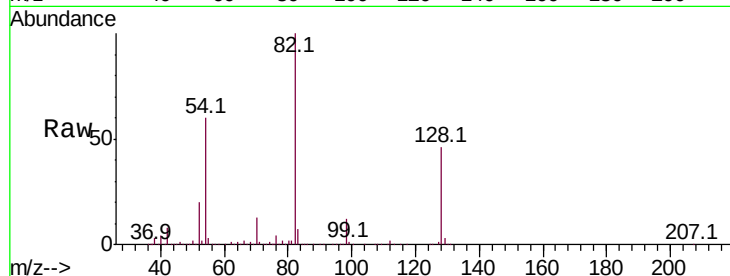




#19
n-Nitroso-di-n-propylamine
Concen: 5.895 ng
RT: 7.36 min Scan# 897
Delta R.T. 0.14 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

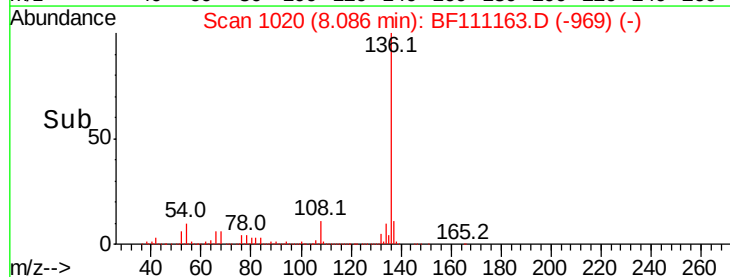
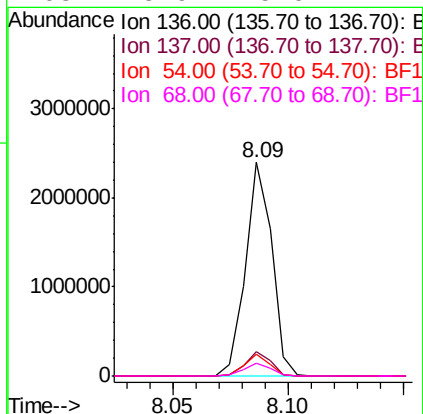
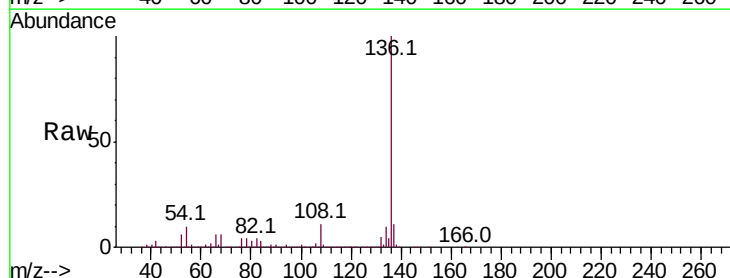
Instrument :
BNA_F
ClientSampleId :

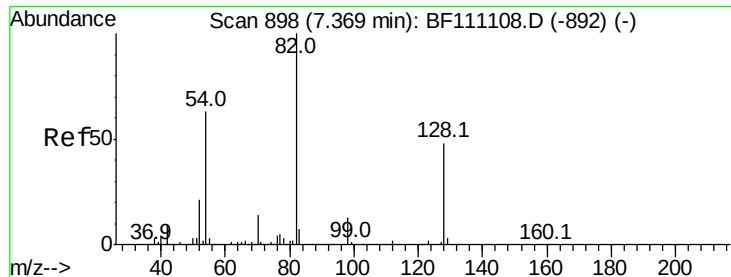
Tot Ion: 70 Resp: 169261
Ion Ratio Lower Upper
70 100
42 60.9 61.3 91.9#
101 0.0 7.7 11.5#
130 2.3 16.3 24.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:136 Resp: 1918060
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 10.3 8.4 12.6
68 5.9 5.0 7.4

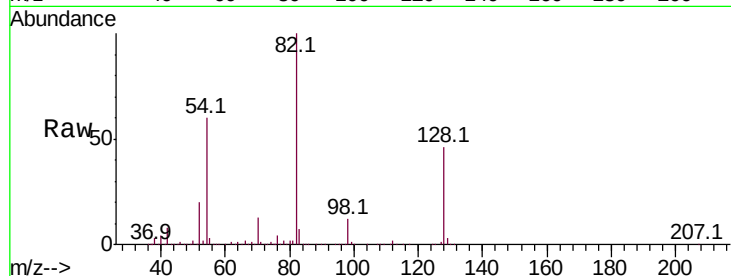




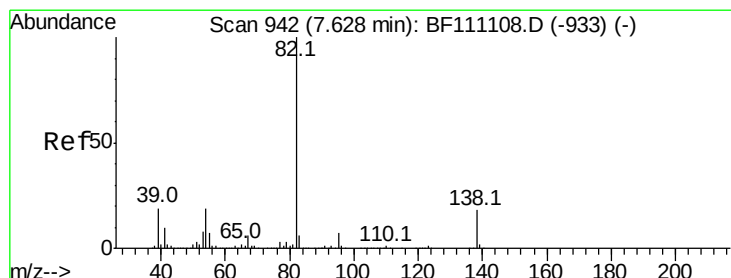
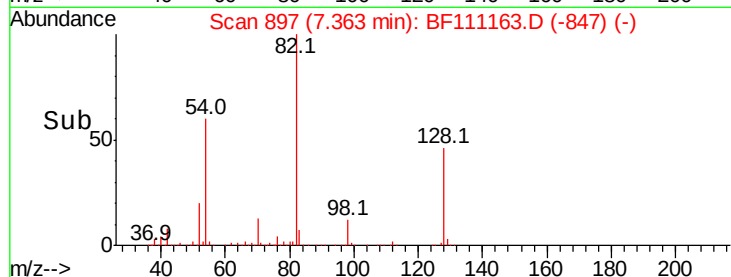
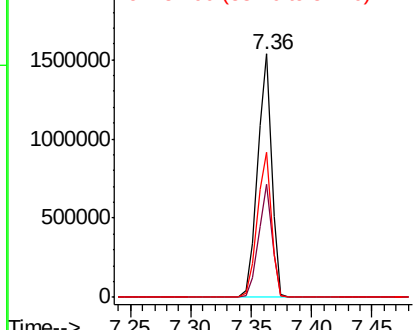
#23
Nitrobenzene-d5
Concen: 38.747 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 1255327
Ion Ratio Lower Upper
82 100
128 46.2 38.1 57.1
54 59.8 50.3 75.5

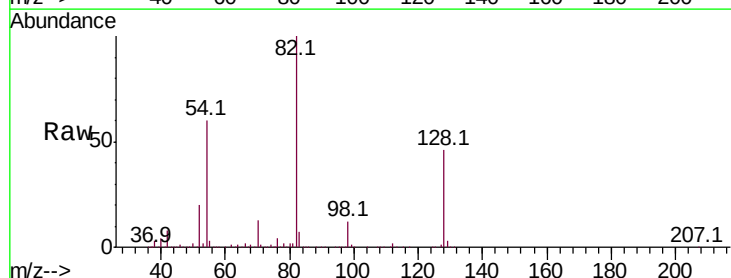


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

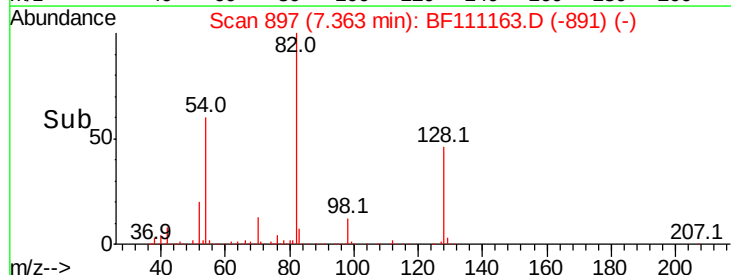
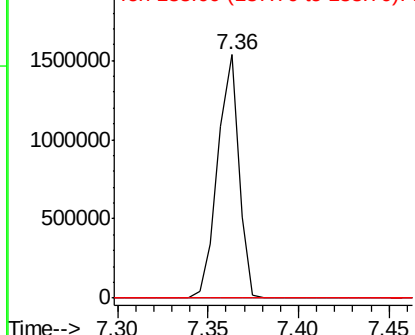


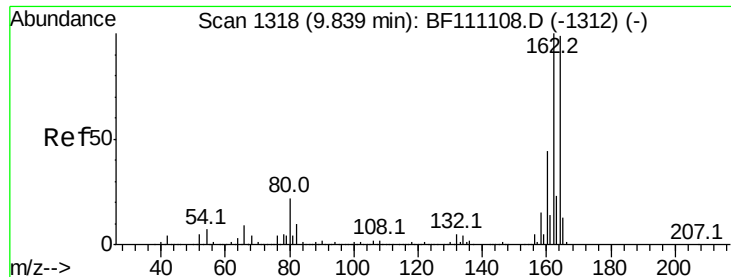
#25
Isophorone
Concen: 21.034 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.26 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion: 82 Resp: 1250649
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.6 22.0#



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

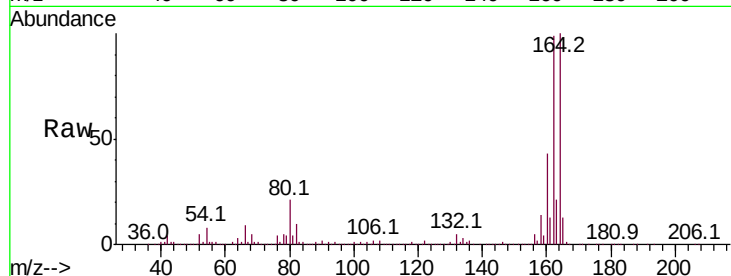




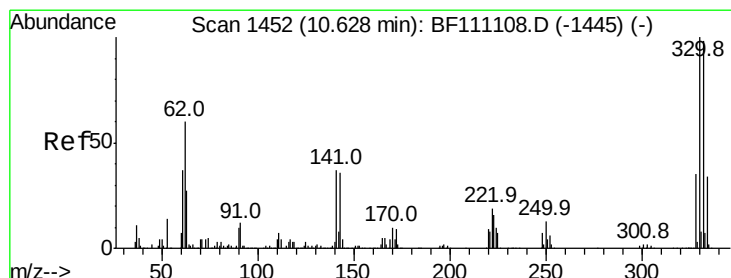
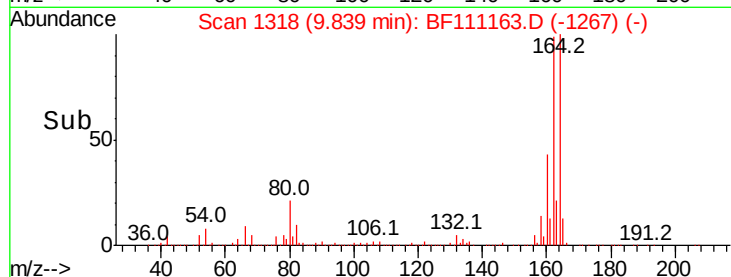
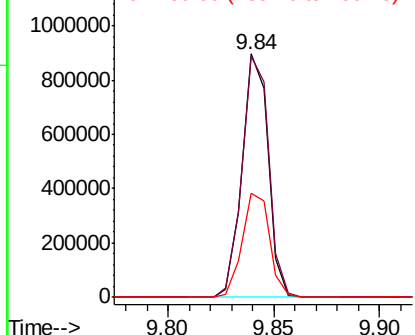
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Instrument :
BNA_F
ClientSampled :

Tot Ion:164 Resp: 764632
Ion Ratio Lower Upper
164 100
162 98.8 80.6 120.8
160 42.9 35.5 53.3

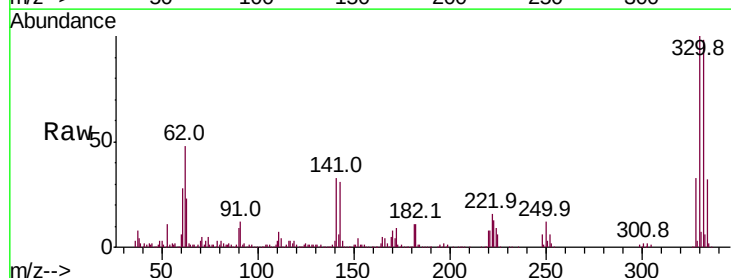


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

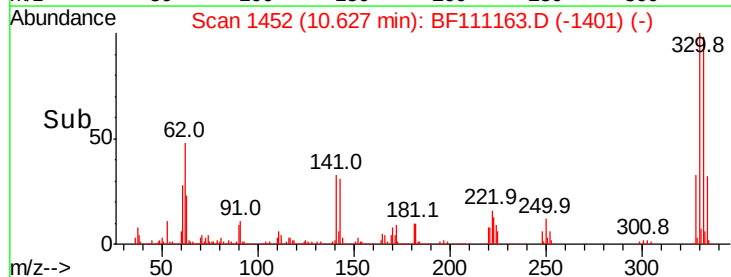
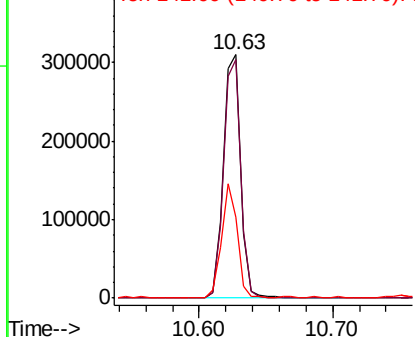


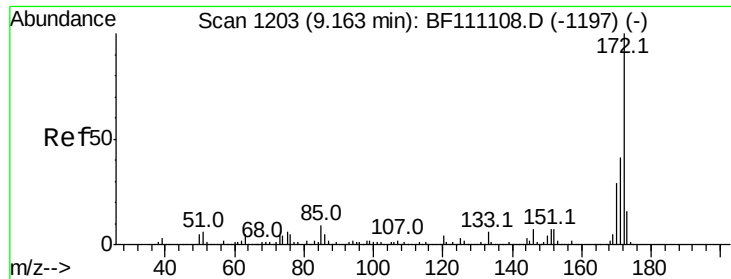
#42
2,4,6-Tribromophenol
Concen: 46.848 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:330 Resp: 284742
Ion Ratio Lower Upper
330 100
332 97.5 77.2 115.8
141 43.3 36.1 54.1



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

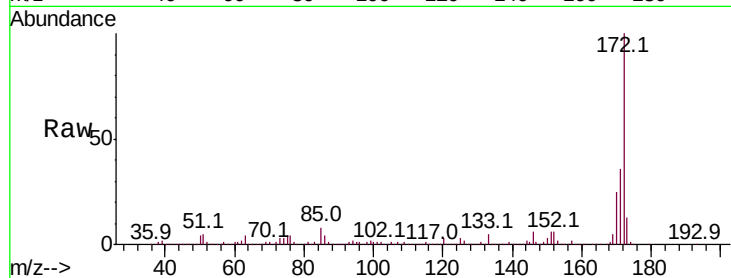




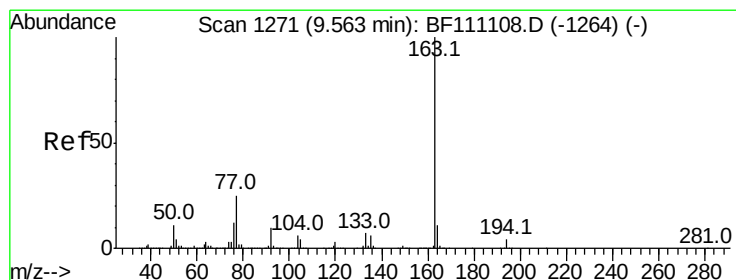
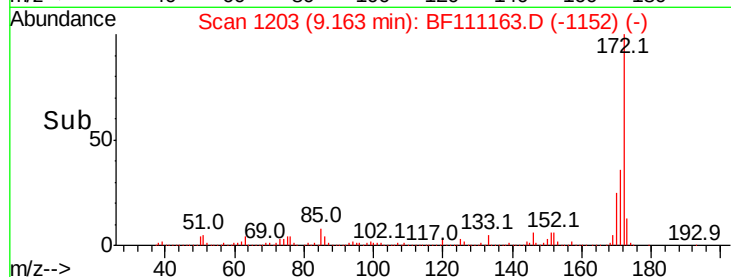
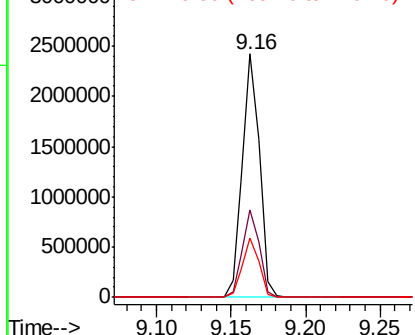
#45
2-Fluorobiphenyl
Concen: 39.578 ng
RT: 9.16 min Scan# 1203
Delta R.T. 0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1952165
Ion Ratio Lower Upper
172 100
171 36.0 33.2 49.8
170 24.5 22.9 34.3

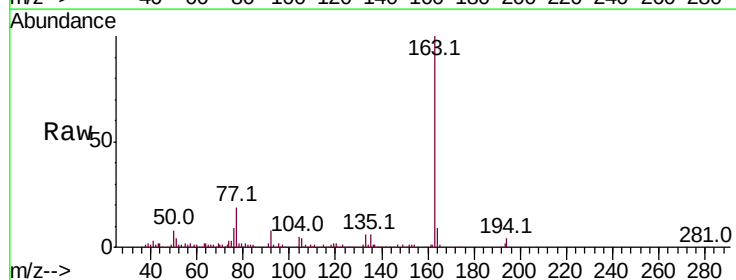


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

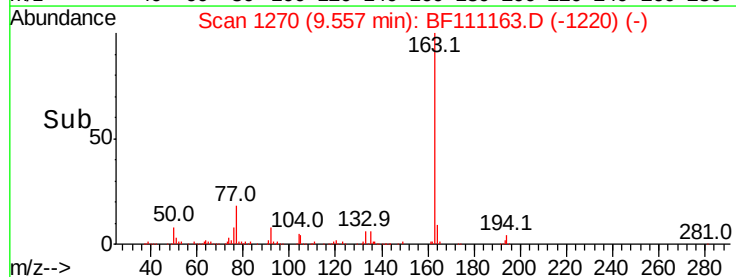
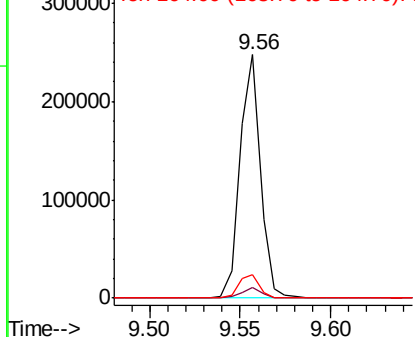


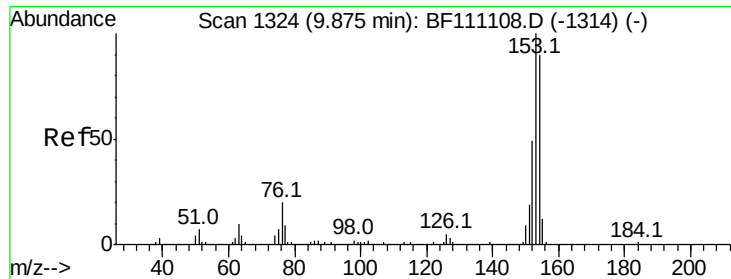
#50
Dimethylphthalate
Concen: 3.661 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:163 Resp: 194817
Ion Ratio Lower Upper
163 100
194 4.3 3.0 4.4
164 9.5 8.9 13.3



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





#52

Acenaphthene

Concen: 2.439 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.00 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

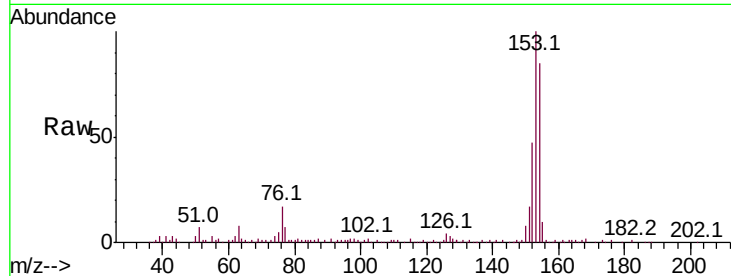
Tot Ion:154 Resp: 109541

Ion Ratio Lower Upper

154 100

153 117.6 88.7 133.1

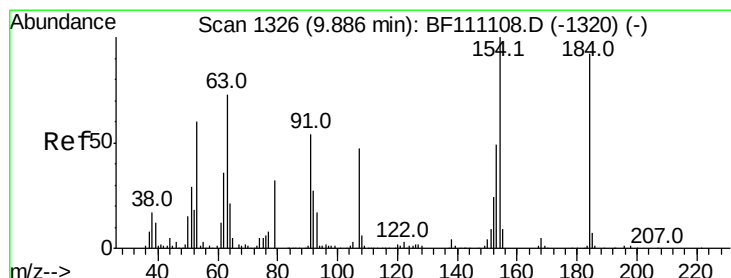
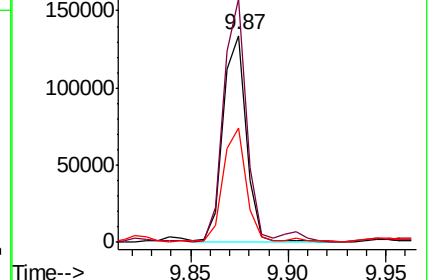
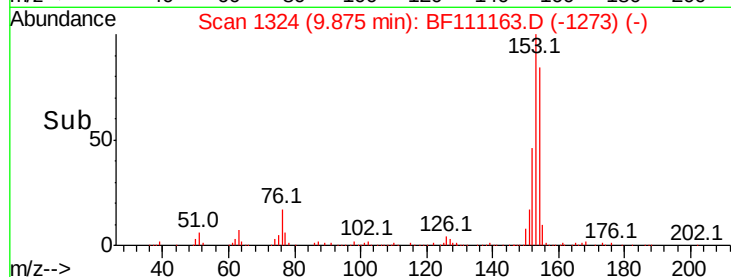
152 55.3 43.8 65.8



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



#54

2,4-Dinitrophenol

Concen: 6.636 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.24 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

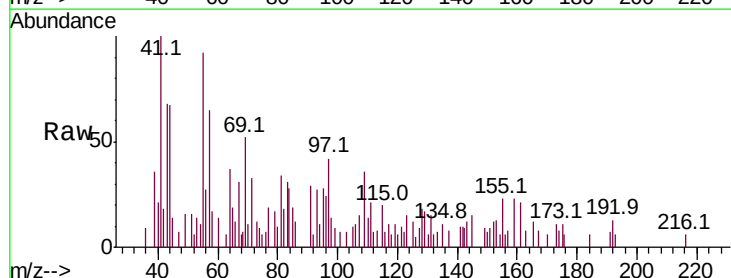
Tgt Ion:184 Resp: 123

Ion Ratio Lower Upper

184 100

63 96.0 64.2 96.4

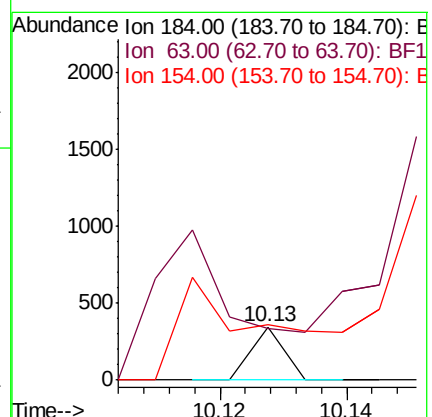
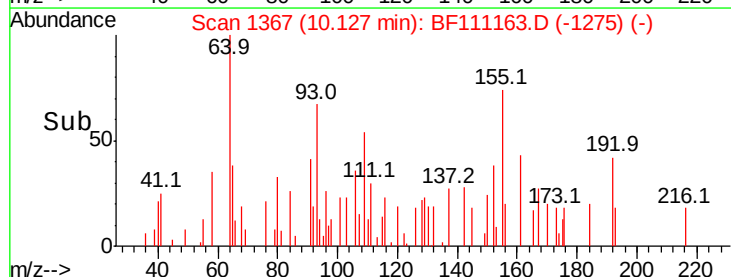
154 103.7 89.5 134.3

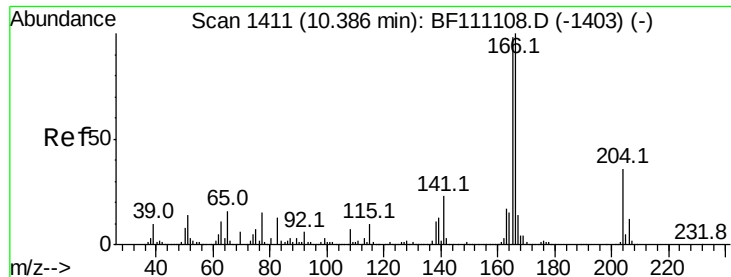


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

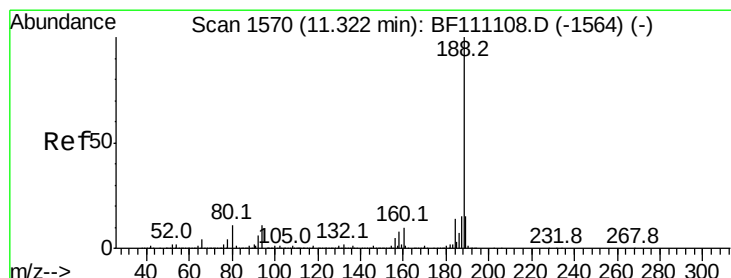
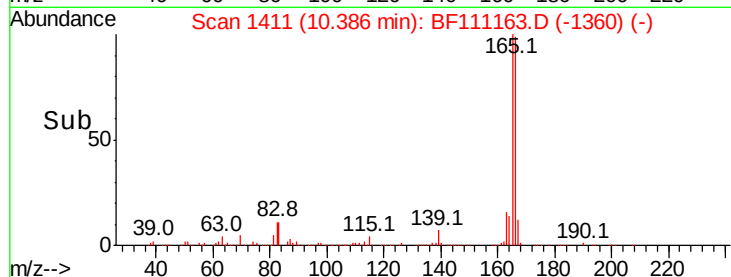
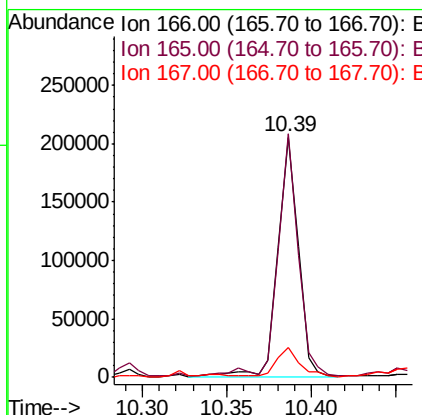
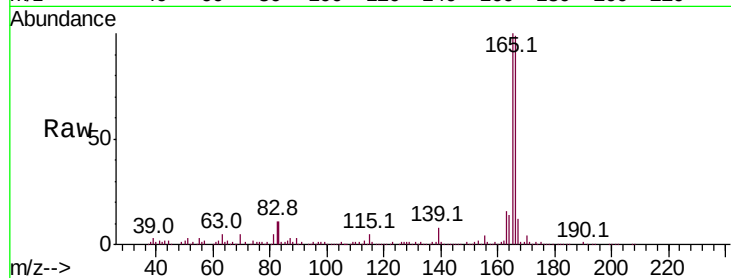




#58
Fluorene
Concen: 3.929 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

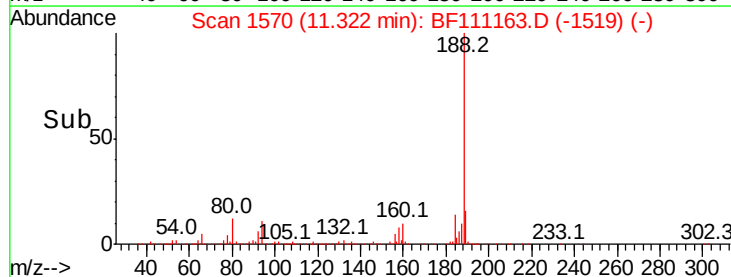
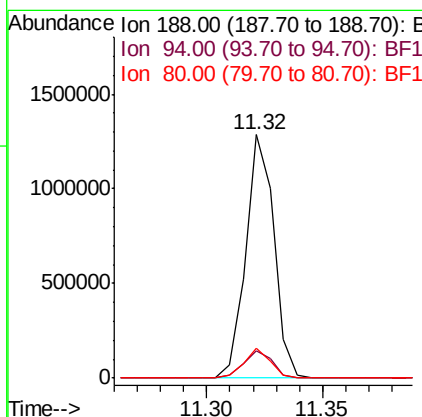
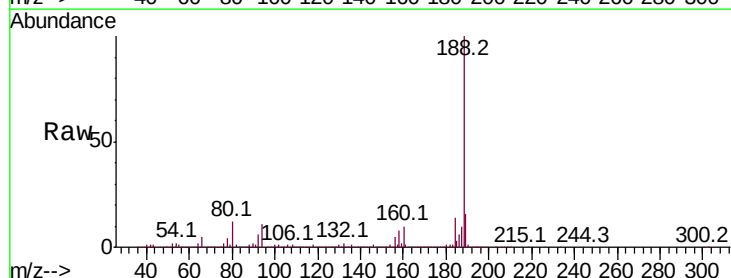
Instrument :
BNA_F
ClientSampleId :

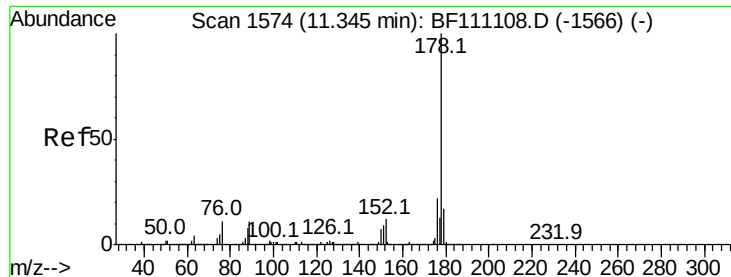
Tot Ion:166 Resp: 171403
Ion Ratio Lower Upper
166 100
165 101.4 78.4 117.6
167 12.7 11.4 17.2



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:188 Resp: 1097496
Ion Ratio Lower Upper
188 100
94 11.4 8.5 12.7
80 12.3 9.0 13.6





#71

Phenanthrene

Concen: 19.309 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.00 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

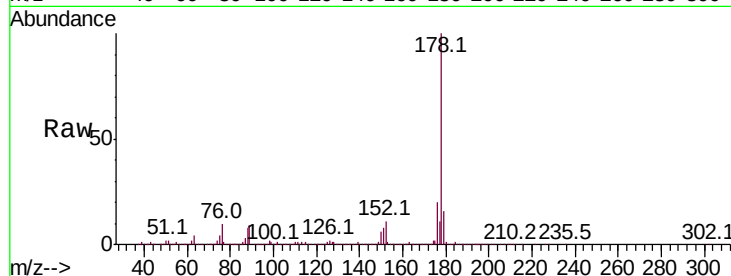
Tot Ion:178 Resp: 1019341

Ion	Ratio	Lower	Upper
178	100		
176	19.7	17.7	26.5
179	15.9	14.0	21.0

178 100

176 19.7 17.7 26.5

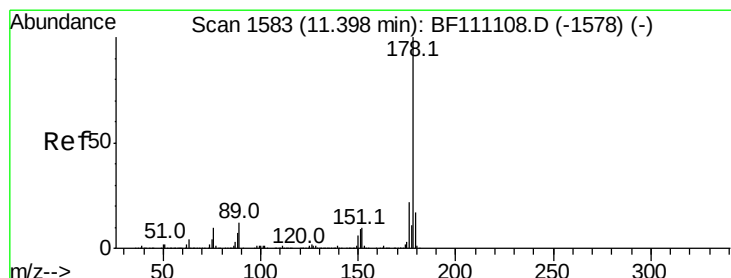
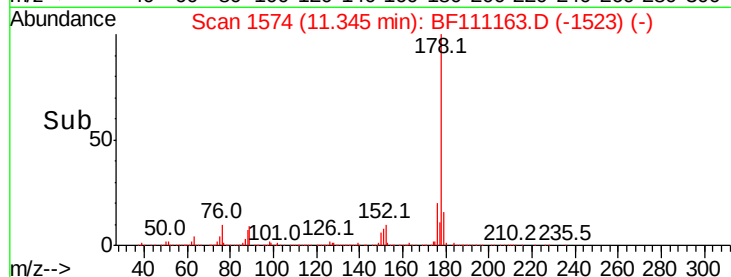
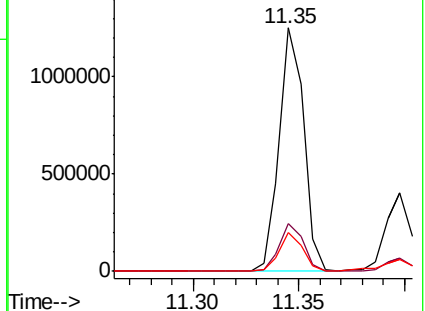
179 15.9 14.0 21.0



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

Anthracene

Concen: 6.065 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

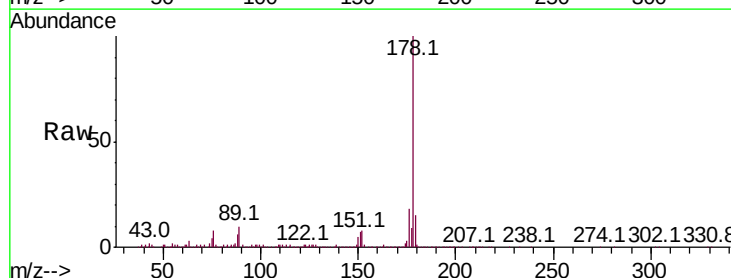
Tgt Ion:178 Resp: 322720

Ion	Ratio	Lower	Upper
178	100		
176	17.6	17.3	25.9
179	15.2	13.8	20.8

178 100

176 17.6 17.3 25.9

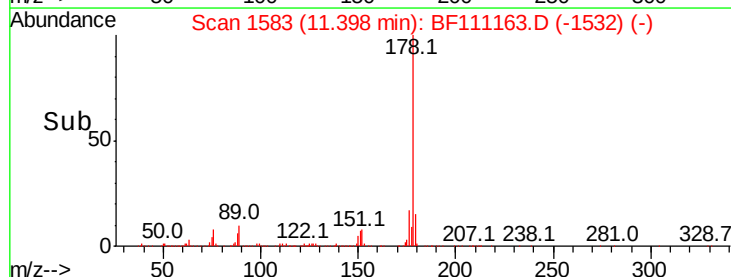
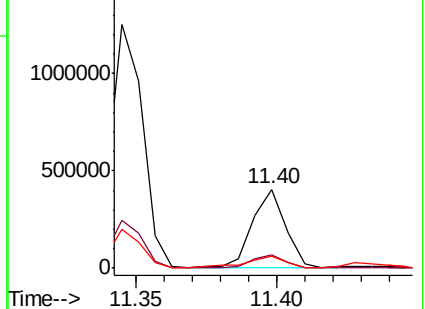
179 15.2 13.8 20.8

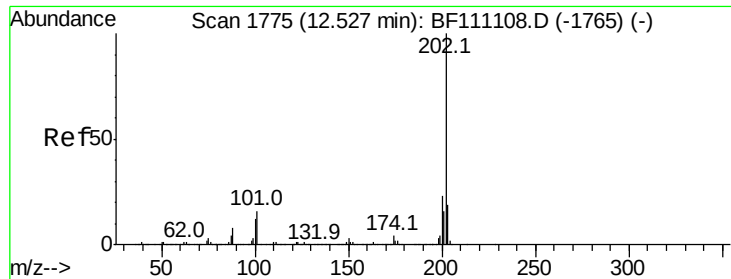


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 26.559 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

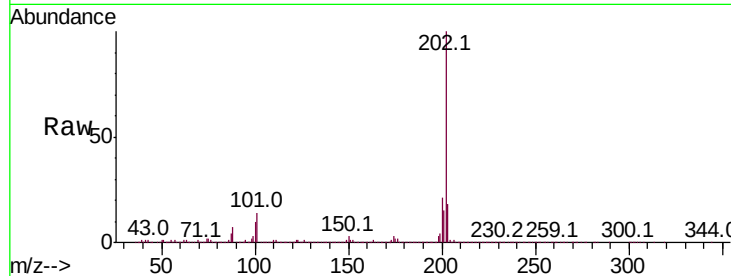
Tot Ion:202 Resp: 1371963

Ion Ratio Lower Upper

202 100

101 13.8 0.0 35.8

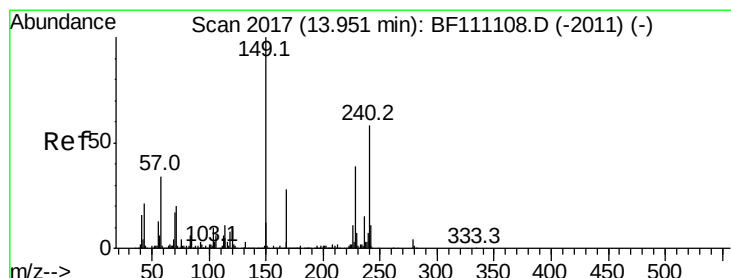
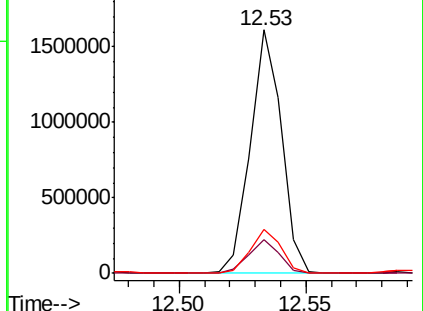
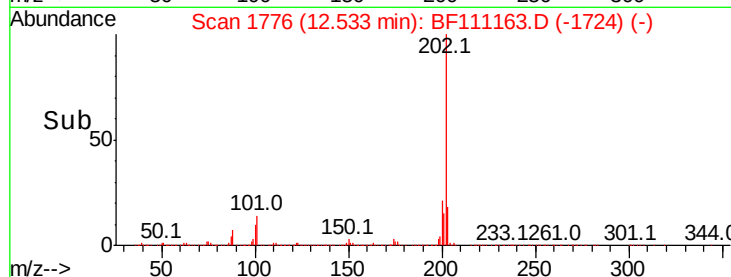
203 17.8 0.0 38.6



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: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

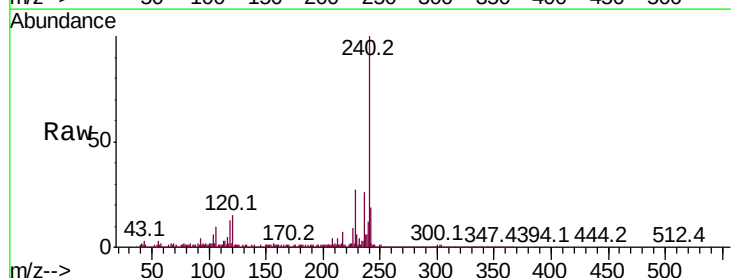
Tgt Ion:240 Resp: 938858

Ion Ratio Lower Upper

240 100

120 15.3 12.8 19.2

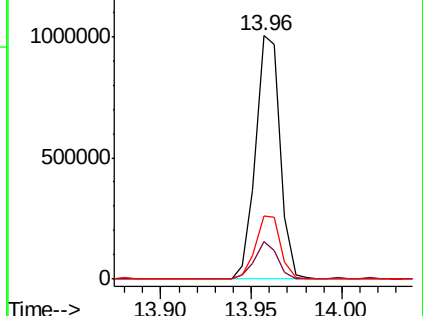
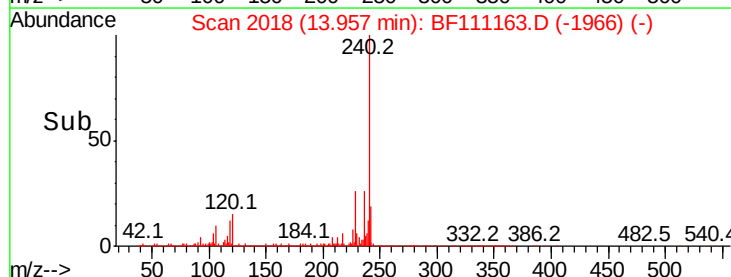
236 26.1 21.1 31.7

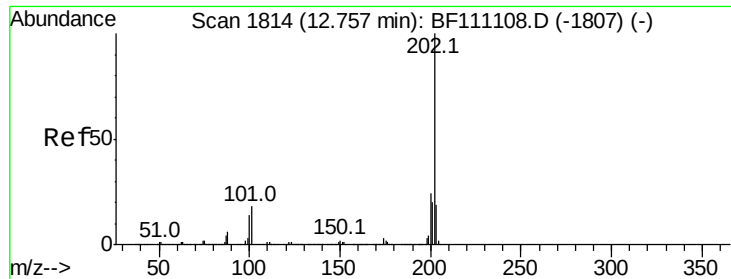


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

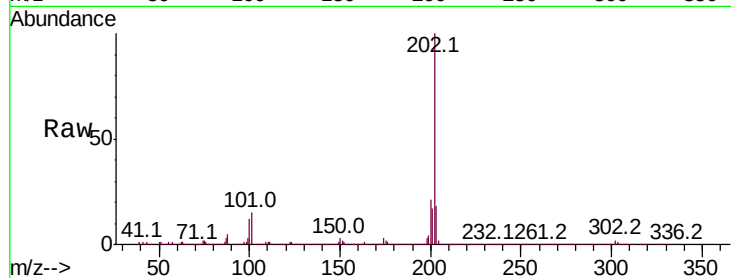




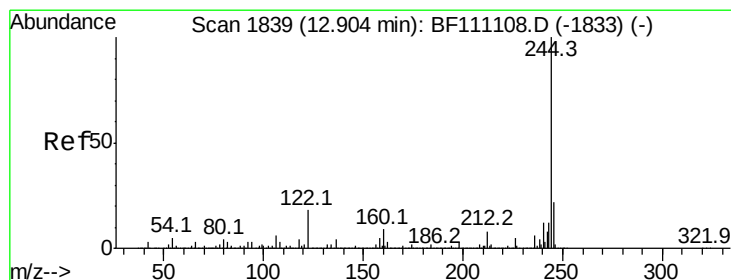
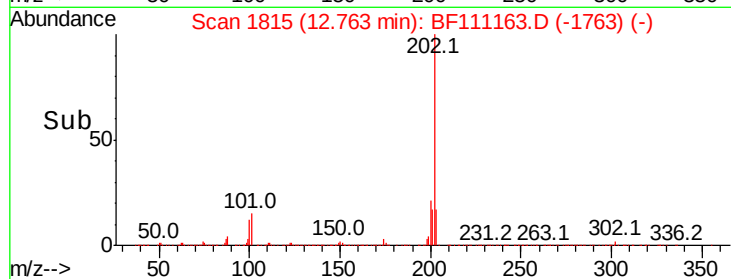
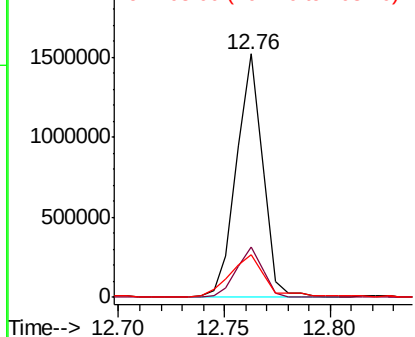
#78
Pvrene
Concen: 17.808 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 1302550
Ion Ratio Lower Upper
202 100
200 20.9 19.3 28.9
203 17.7 15.4 23.2

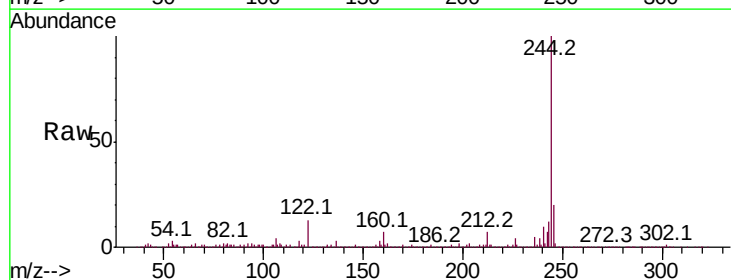


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

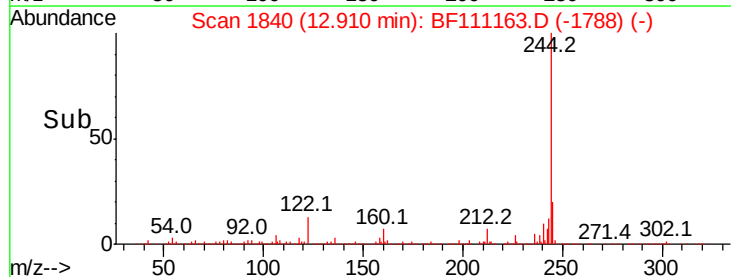
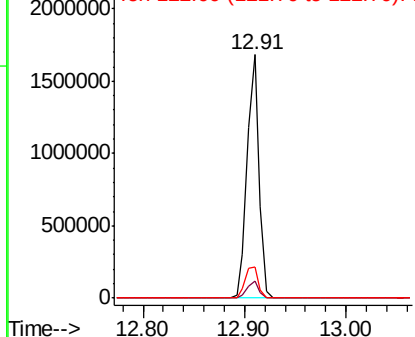


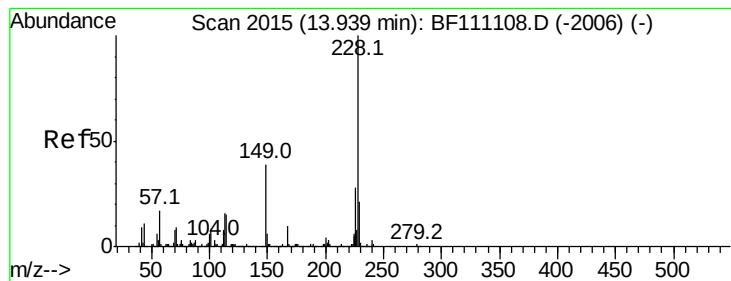
#79
Terphenyl-d14
Concen: 29.951 ng
RT: 12.91 min Scan# 1840
Delta R.T. 0.01 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion:244 Resp: 1373048
Ion Ratio Lower Upper
244 100
212 7.0 6.6 9.8
122 12.8 14.2 21.2#



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: 11.333 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

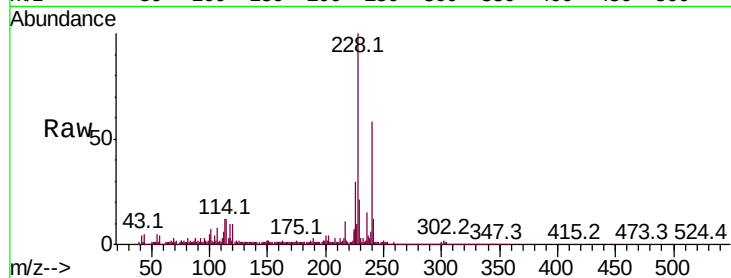
Tot Ion:228 Resp: 623413

Ion Ratio Lower Upper

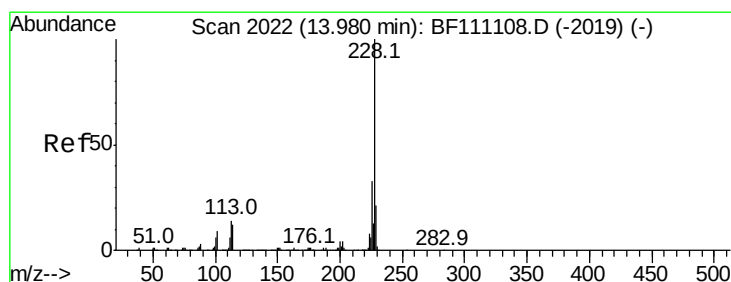
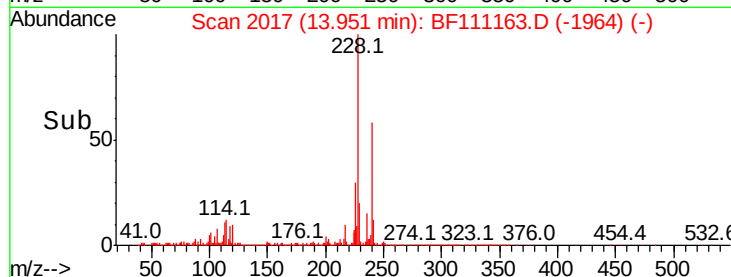
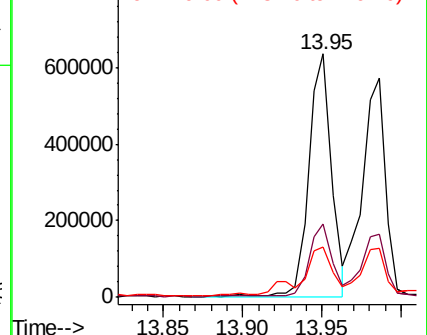
228 100

226 30.0 22.6 34.0

229 20.9 16.7 25.1



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: 10.688 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.01 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

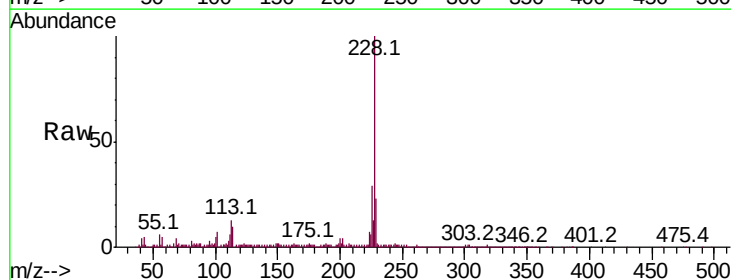
Tgt Ion:228 Resp: 583670

Ion Ratio Lower Upper

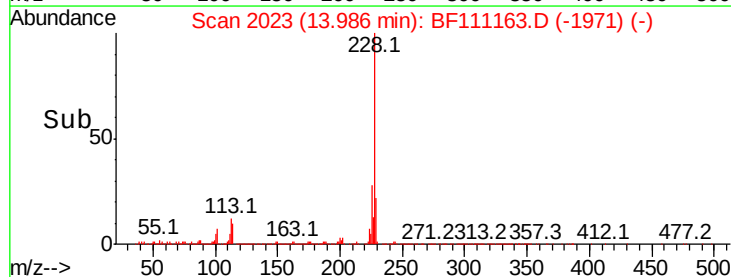
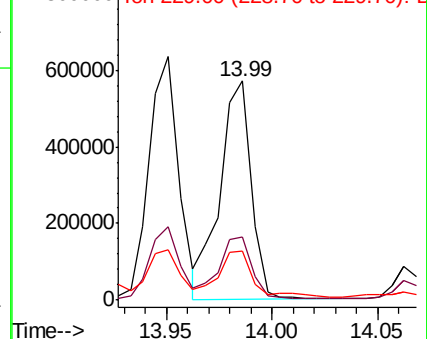
228 100

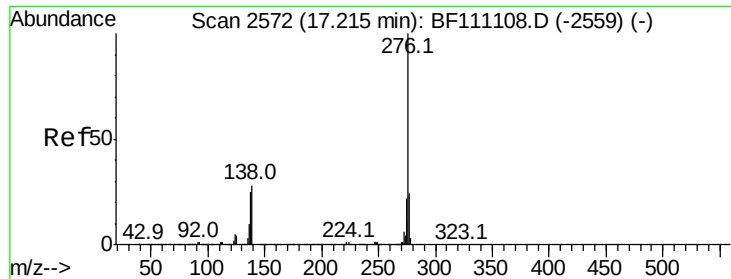
226 28.8 26.2 39.2

229 22.6 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: 4.514 ng

RT: 16.81 min Scan# 2503

Delta R.T. 0.02 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

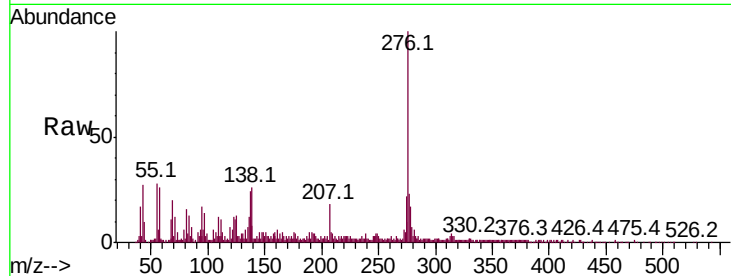
Tot Ion:276 Resp: 197933

Ion Ratio Lower Upper

276 100

138 30.6 20.2 30.4#

277 24.3 15.8 23.6#

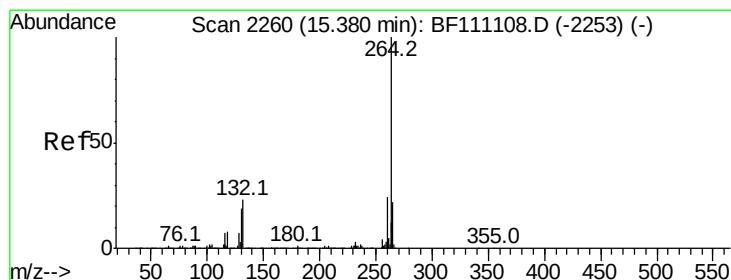
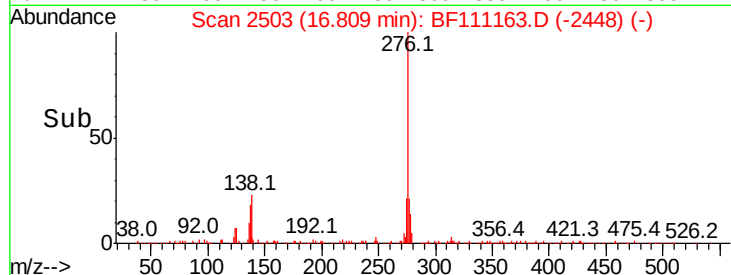
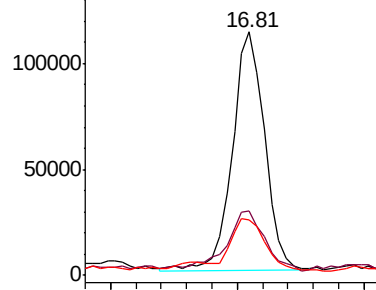


Abundance

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: 15.40 min Scan# 2263

Delta R.T. 0.02 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

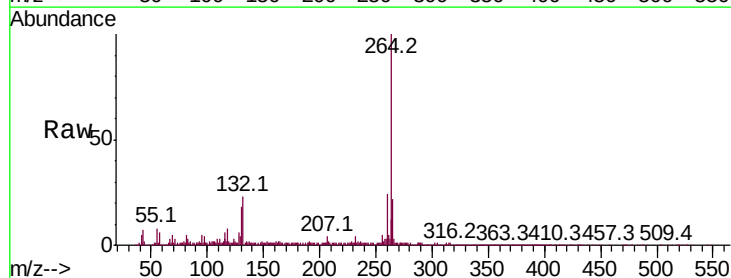
Tgt Ion:264 Resp: 659821

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.0

265 22.2 17.4 26.0

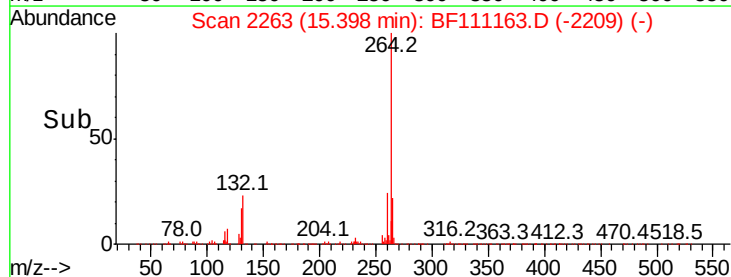
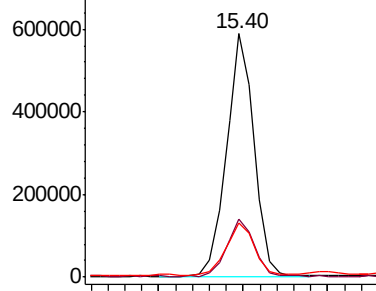


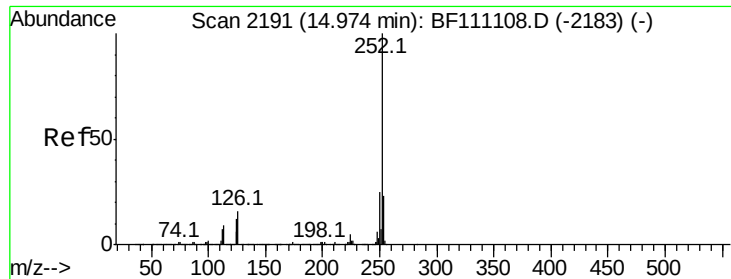
Abundance

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

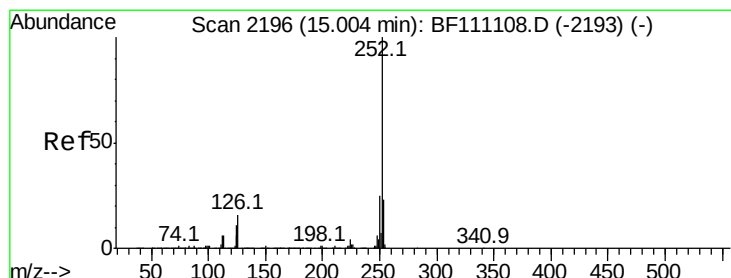
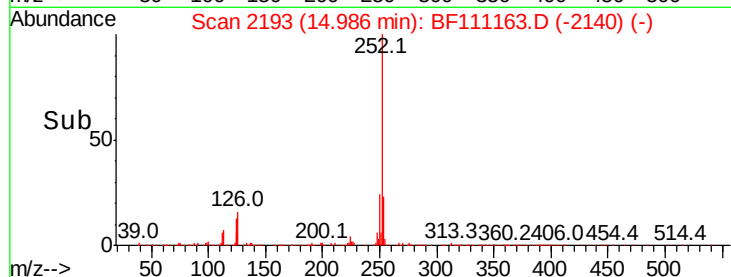
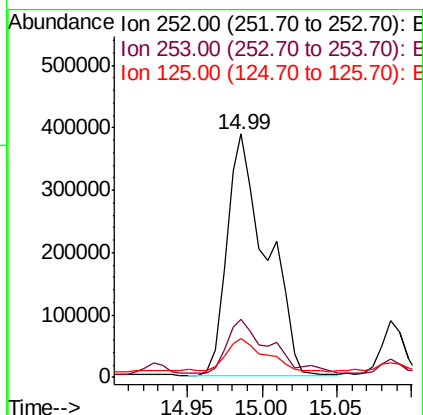
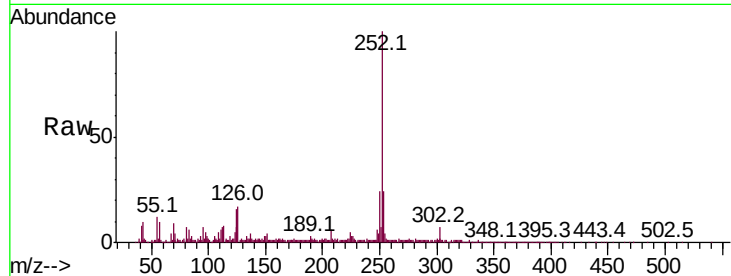




#88
Benzo(b)fluoranthene
Concen: 18.982 ng
RT: 14.99 min Scan# 2193
Delta R.T. 0.01 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

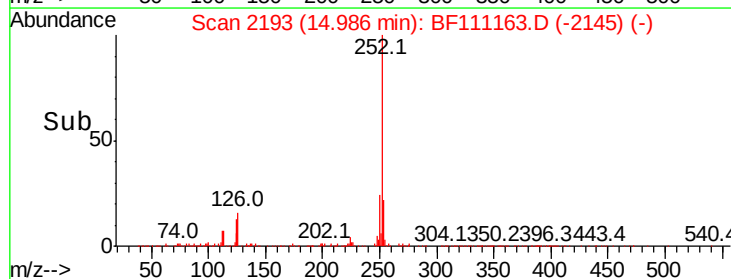
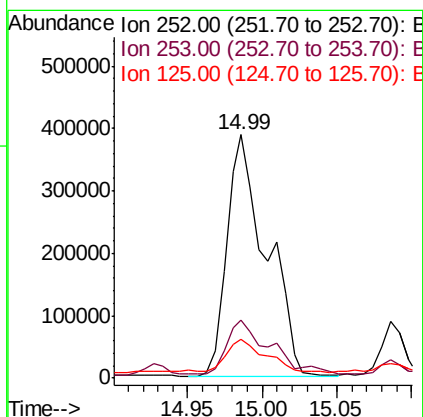
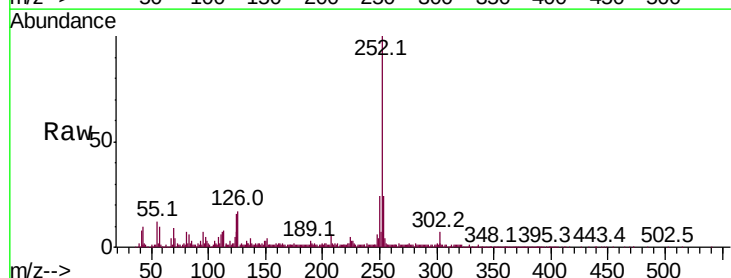
Instrument :
BNA_F
ClientSampleId :

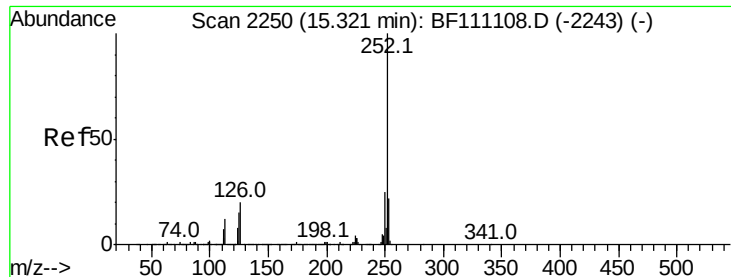
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.5	27.7
125	15.8	9.9	14.9#



#89
Benzo(k)fluoranthene
Concen: 19.635 ng
RT: 14.99 min Scan# 2193
Delta R.T. -0.02 min
Lab File: BF111163.D
Acq: 7 Dec 2018 2:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.4
125	15.8	9.9	14.9#





#90

Benzo(a)pyrene

Concen: 11.120 ng

RT: 15.34 min Scan# 2253

Delta R.T. 0.02 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

Instrument :

BNA_F

ClientSampleId :

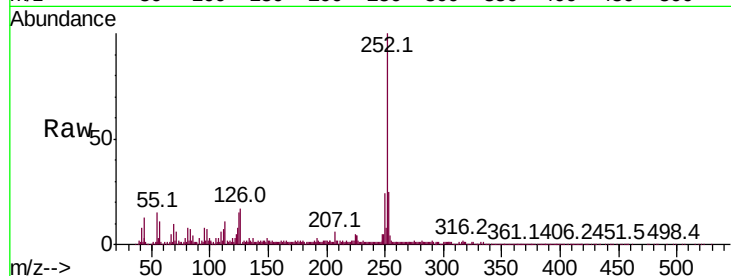
Tot Ion:252 Resp: 381345

Ion Ratio Lower Upper

252 100

253 25.4 17.5 26.3

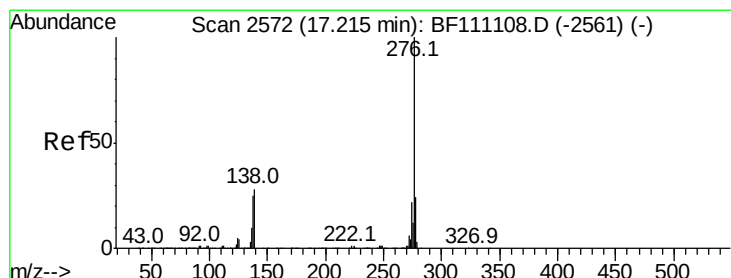
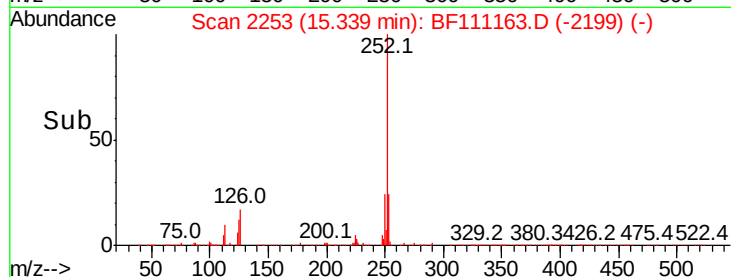
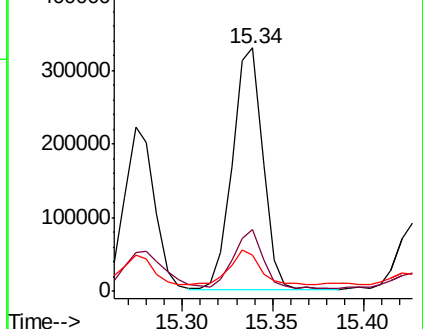
125 15.1 12.4 18.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 6.738 ng

RT: 17.23 min Scan# 2575

Delta R.T. 0.02 min

Lab File: BF111163.D

Acq: 7 Dec 2018 2:44

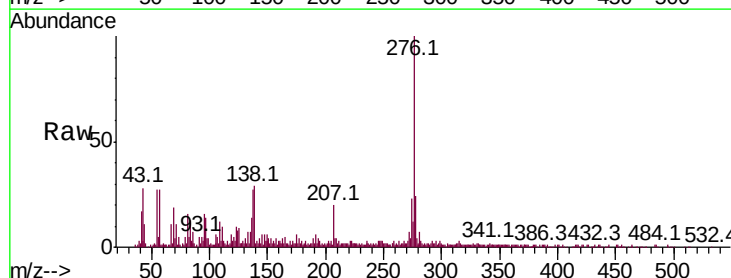
Tgt Ion:276 Resp: 194876

Ion Ratio Lower Upper

276 100

277 24.4 19.3 28.9

138 28.9 22.3 33.5



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

