

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032319\
 Data File : BF113255.D
 Acq On : 23 Mar 2019 11:24
 Operator : JU/SJ
 Sample : K2050-03RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 23 22:56:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	199614	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	759169	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	405714	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	823404	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	556484	20.00	ng	-0.01
87) Perylene-d12	15.27	264	492809	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.34	112	1333584	103.92	ng	0.00
7) Phenol-d6	6.37	99	1814908	112.59	ng	0.00
23) Nitrobenzene-d5	7.28	82	1164705	91.80	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	593754	137.85	ng	-0.01
45) 2-Fluorobiphenyl	9.07	172	1663938	63.58	ng	-0.02
79) Terphenyl-d14	12.81	244	1661710	57.89	ng	-0.01

Target Compounds

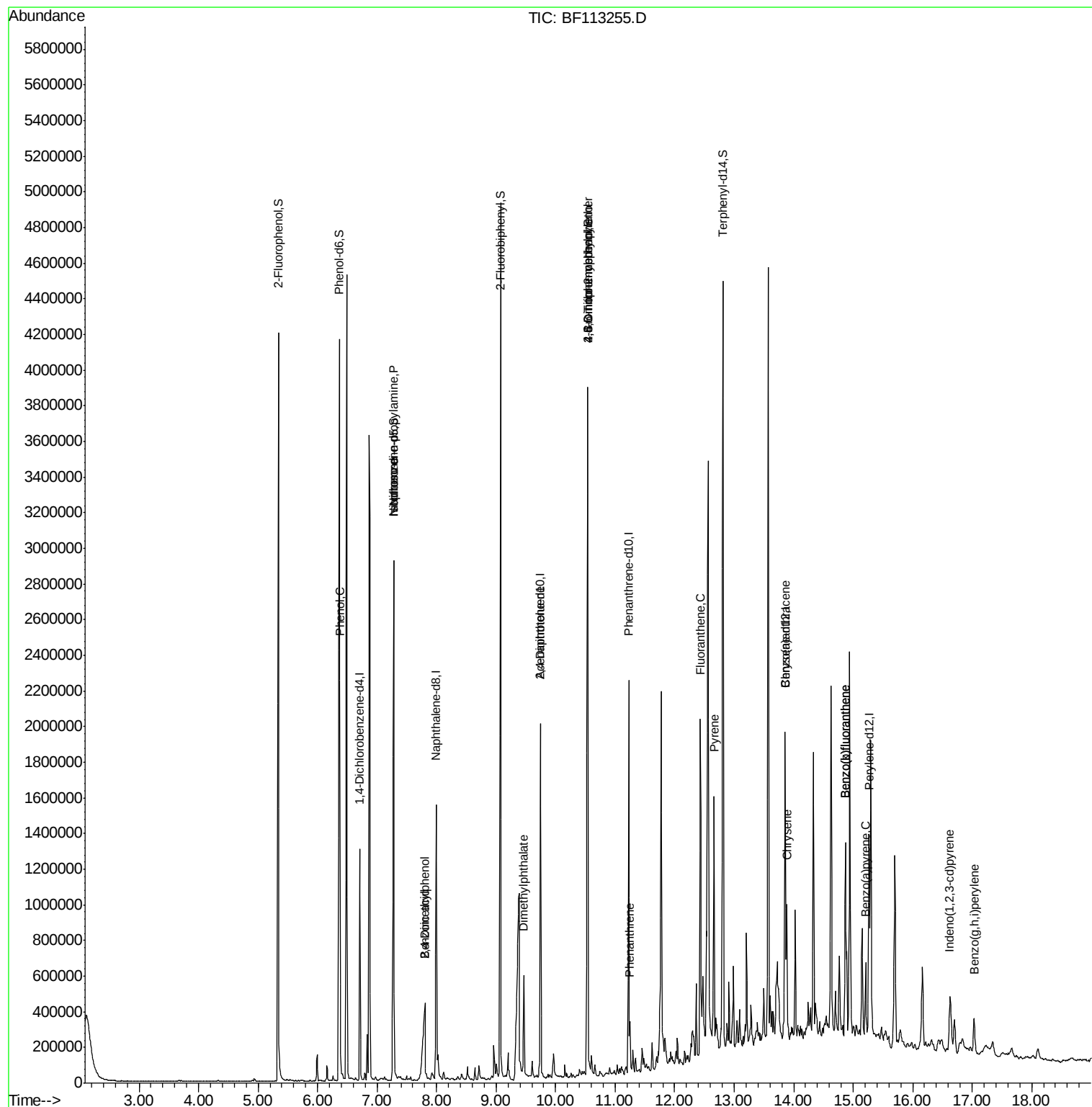
						Qvalue
10) Phenol	6.38	94	115215	6.125	ng	88
19) n-Nitroso-di-n-propylamine	7.28	70	154291	15.113	ng	# 74
25) Isophorone	7.28	82	1160836	42.471	ng	# 66
27) 2,4-Dimethylphenol	7.80	122	239312	21.884	ng	# 6
32) Benzoic acid	7.80	122	239312	31.223	ng	93
50) Dimethylphthalate	9.46	163	239739	8.014	ng	100
57) 2,4-Dinitrotoluene	9.75	165	52574	6.789	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.54	198	977	4.874	ng	# 1
67) 4-Bromophenyl-phenylether	10.54	248	33600	3.874	ng	# 1
71) Phenanthrene	11.25	178	103406	2.524	ng	96
75) Fluoranthene	12.43	202	628388	14.317	ng	97
78) Pyrene	12.66	202	553389	11.796	ng	99
81) Benzo(a)anthracene	13.85	228	215085	5.577	ng	94
83) Chrysene	13.89	228	359394	9.513	ng	98
86) Indeno(1,2,3-cd)pyrene	16.63	276	184994	5.744	ng	# 91
88) Benzo(b)fluoranthene	14.87	252	707355	22.191	ng	98
89) Benzo(k)fluoranthene	14.87	252	707355	24.498	ng	99
90) Benzo(a)pyrene	15.21	252	201024	7.130	ng	98
92) Benzo(a,h,i)perylene	17.03	276	165671	6.858	ng	94

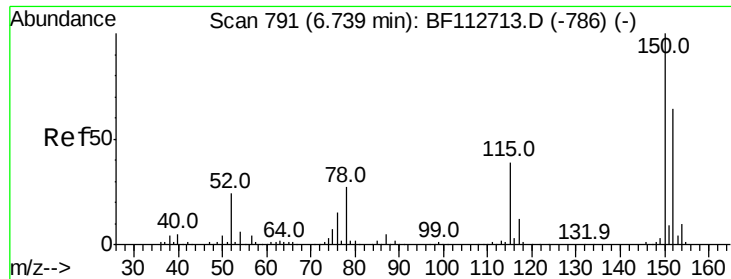
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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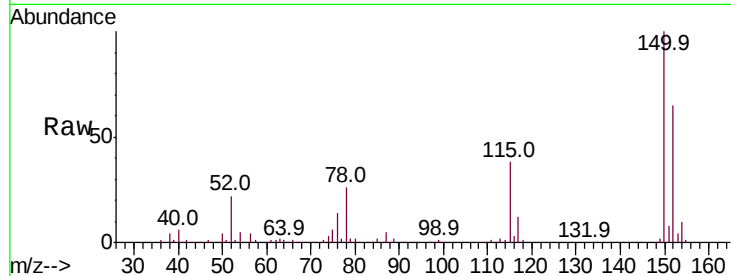


#1

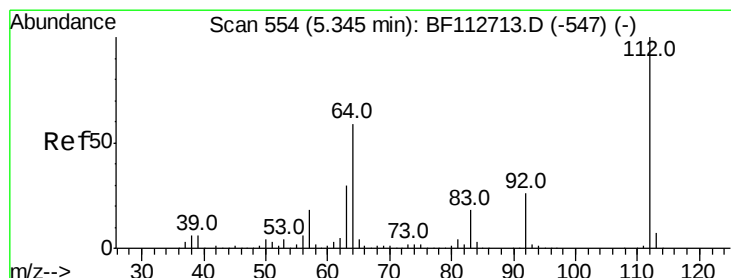
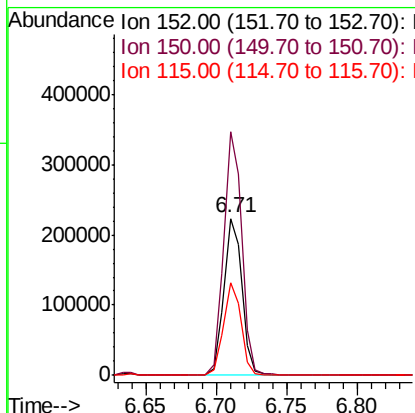
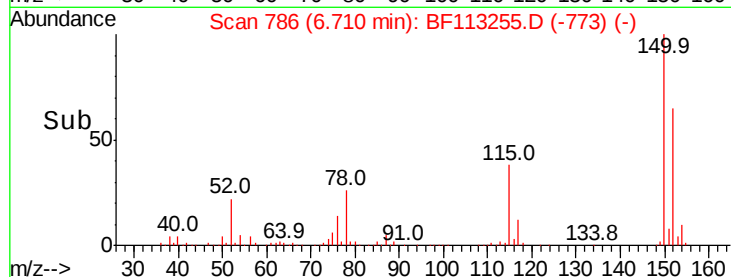
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 199614
Ion Ratio Lower Upper
152 100
150 155.0 124.2 186.2
115 59.2 48.2 72.4



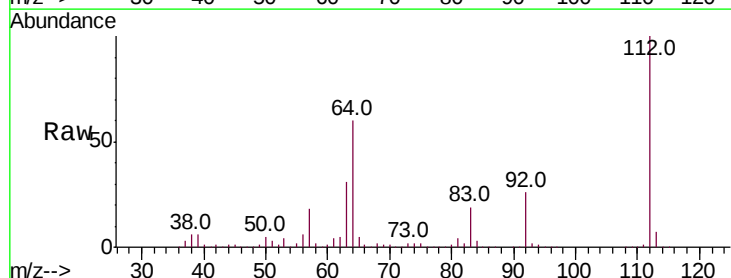
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



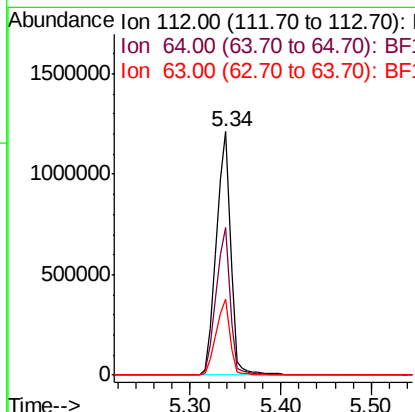
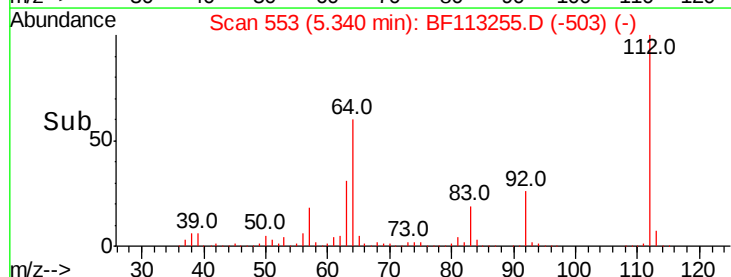
#5

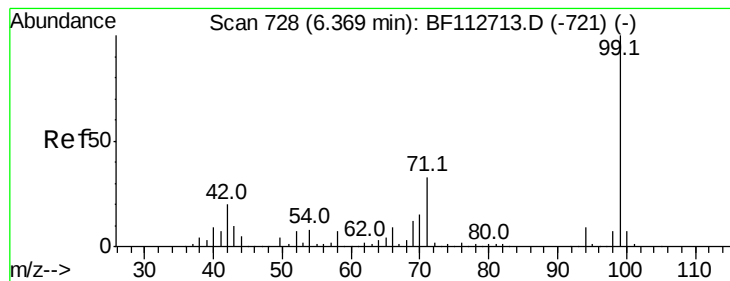
2-Fluorophenol
Concen: 103.923 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion:112 Resp: 1333584
Ion Ratio Lower Upper
112 100
64 60.4 47.6 71.4
63 31.0 24.4 36.6



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: 112.590 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

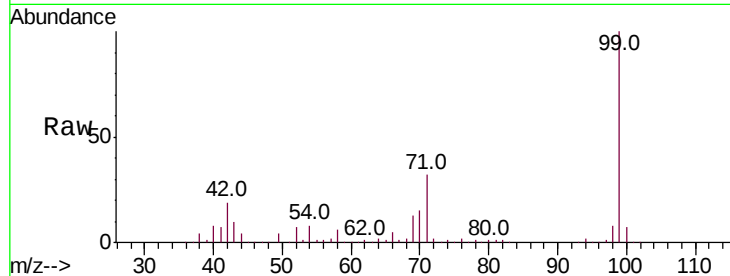
Tot Ion: 99 Resp: 1814908

Ion Ratio Lower Upper

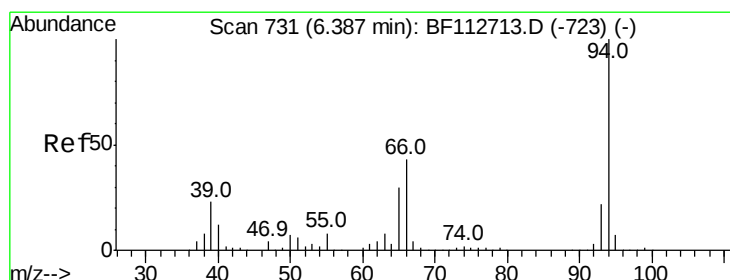
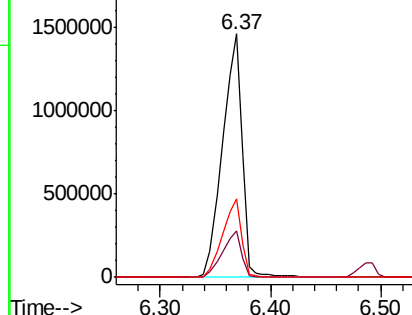
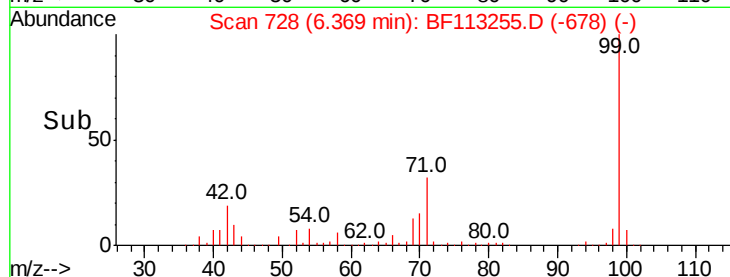
99 100

42 19.0 16.3 24.5

71 32.4 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1
2000000
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 6.125 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

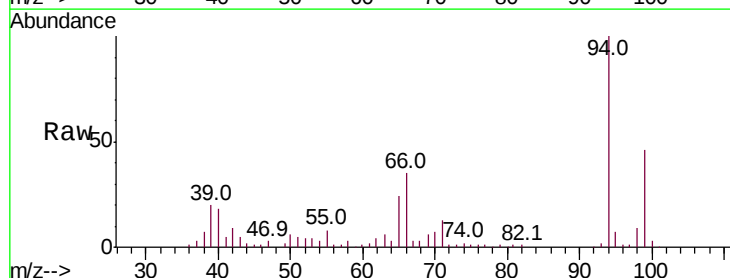
Tgt Ion: 94 Resp: 115215

Ion Ratio Lower Upper

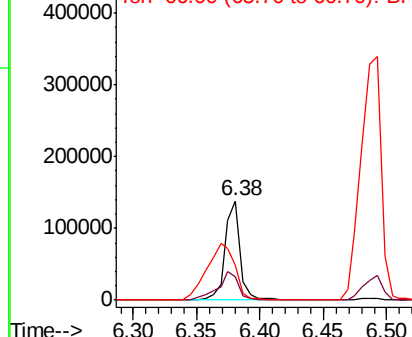
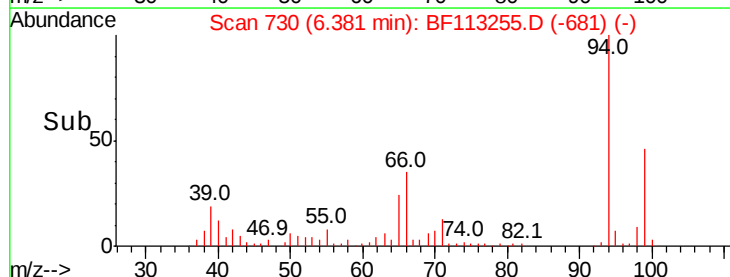
94 100

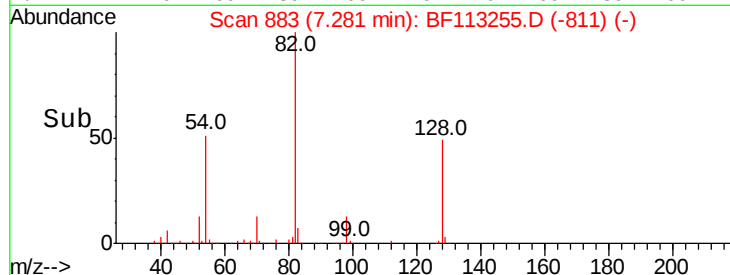
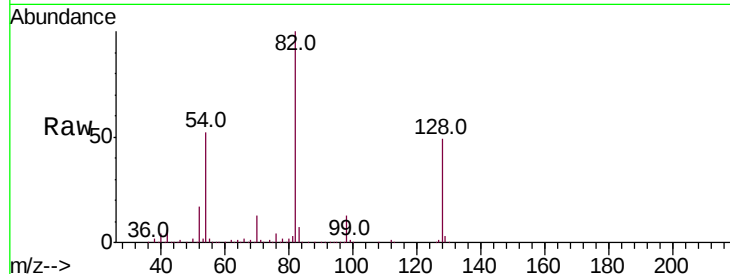
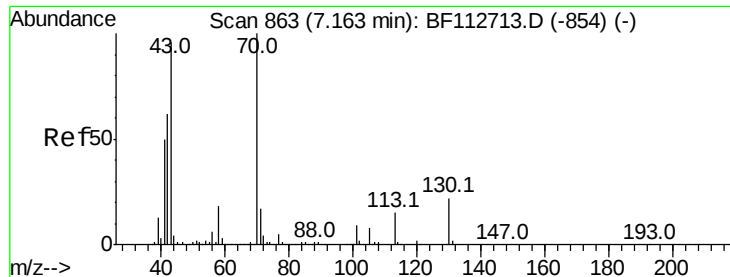
65 24.1 10.5 50.5

66 34.6 22.6 62.6



Abundance Ion 94.00 (93.70 to 94.70): BF1
400000
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

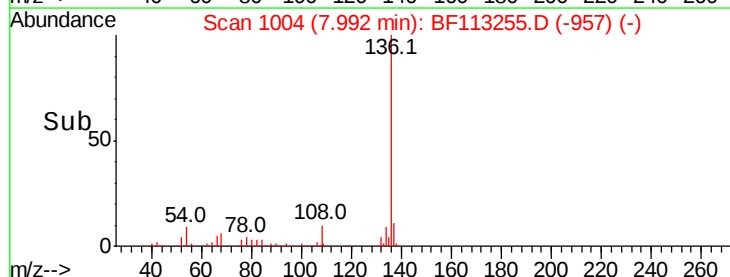
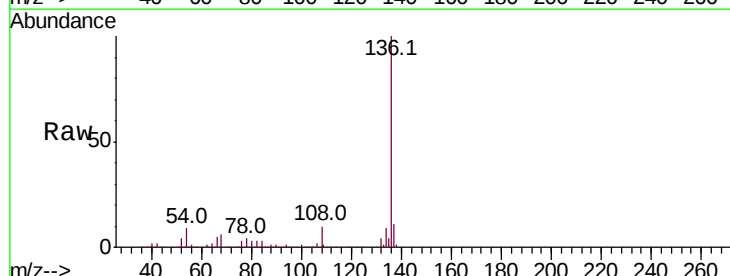
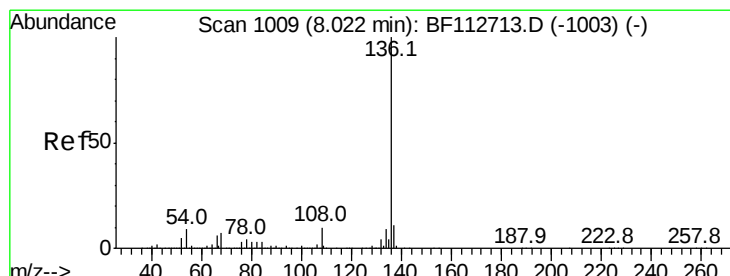
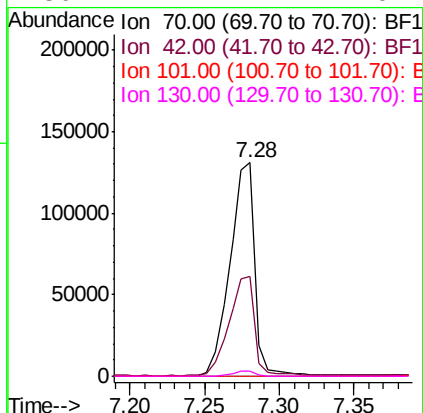




#19
n-Nitroso-di-n-propylamine
Concen: 15.113 ng
RT: 7.28 min Scan# 883
Delta R.T. 0.12 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

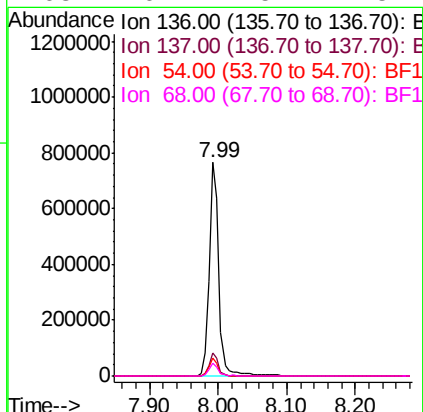
Instrument :
BNA_F
ClientSampleId :

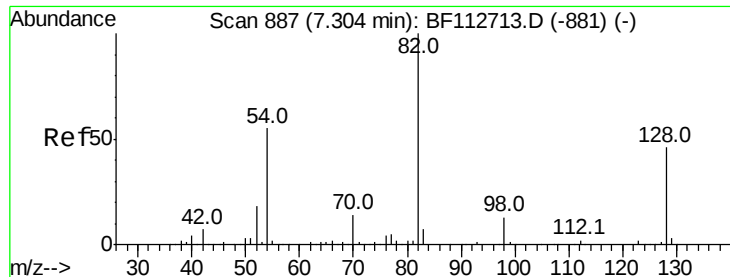
Tot Ion: 70 Resp: 154291
Ion Ratio Lower Upper
70 100
42 46.5 49.9 74.9#
101 0.0 7.4 11.2#
130 2.4 17.4 26.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.99 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion: 136 Resp: 759169
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.6 7.3 10.9
68 6.2 5.4 8.2

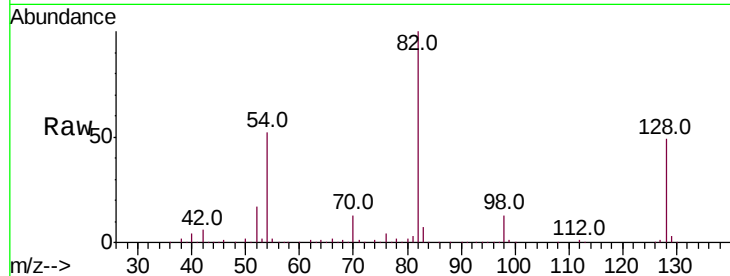




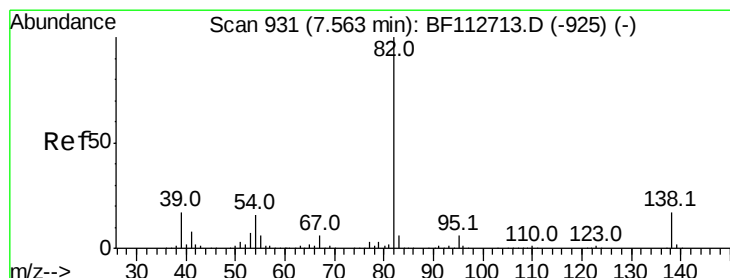
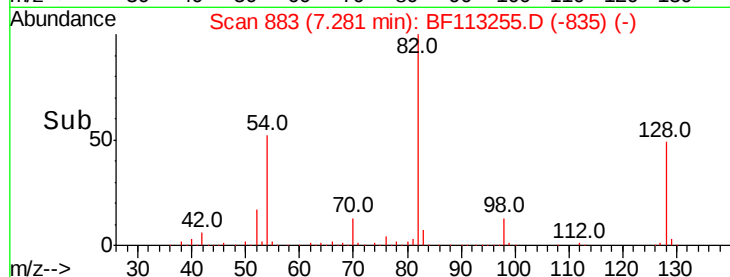
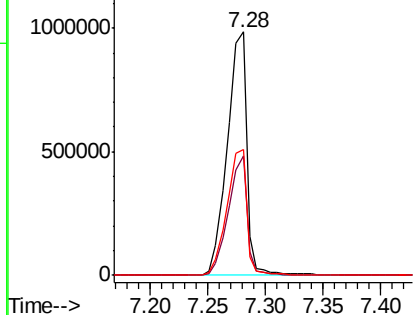
#23
Nitrobenzene-d5
Concen: 91.802 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 1164705
Ion Ratio Lower Upper
82 100
128 49.3 36.3 54.5
54 51.7 43.7 65.5

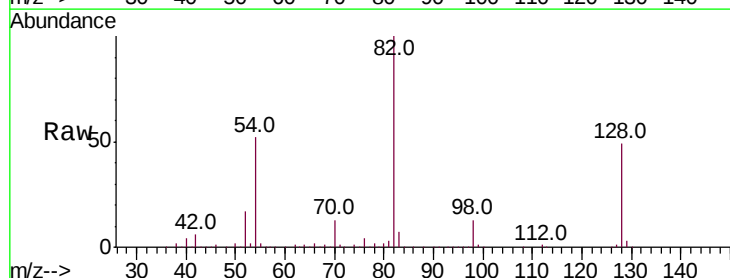


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

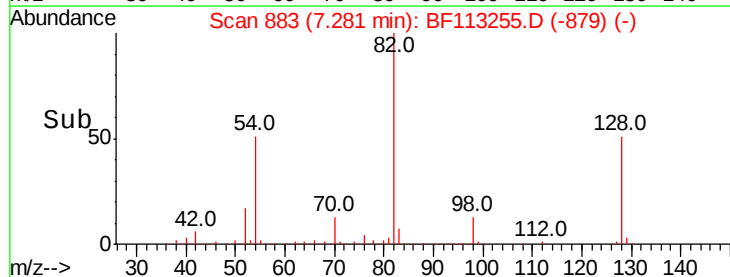
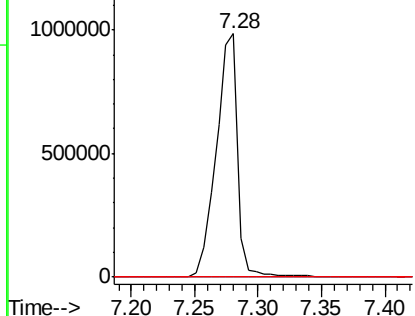


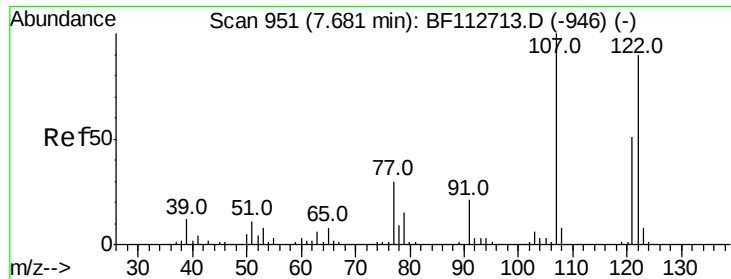
#25
Isophorone
Concen: 42.471 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.28 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion: 82 Resp: 1160836
Ion Ratio Lower Upper
82 100
95 0.1 5.2 7.8#
138 0.0 13.8 20.8#



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

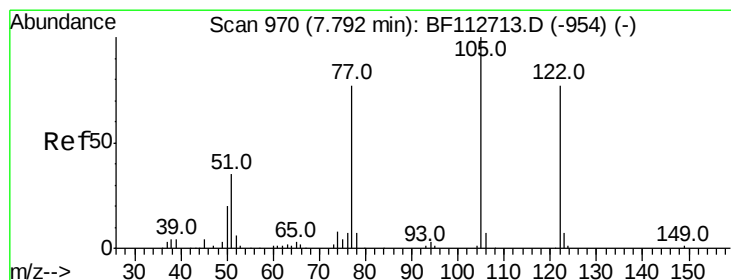
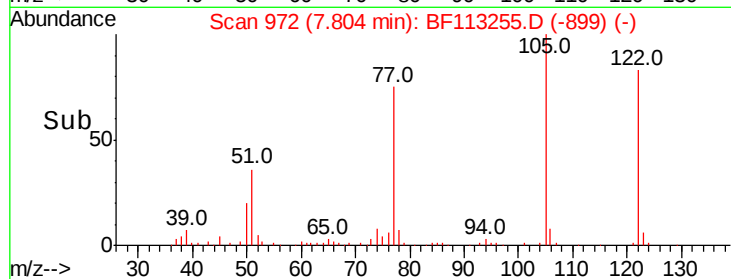
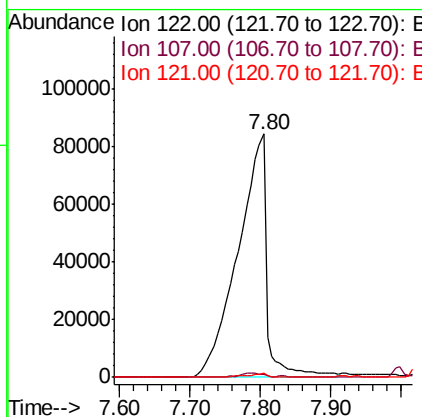
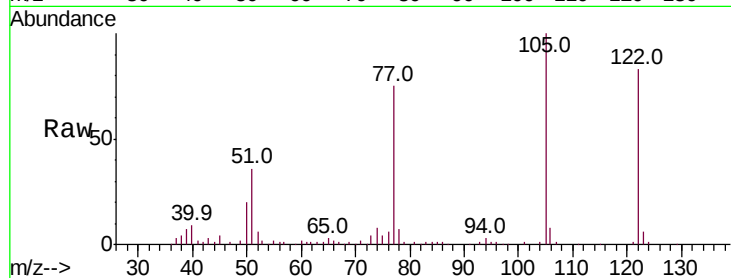




#27
 2,4-Dimethylphenol
 Concen: 21.884 ng
 RT: 7.80 min Scan# 972
 Delta R.T. 0.13 min
 Lab File: BF113255.D
 Acq: 23 Mar 2019 11:24

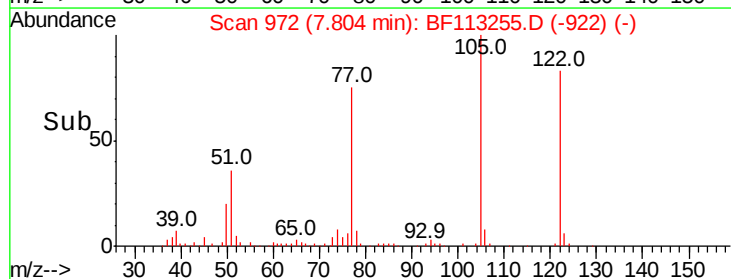
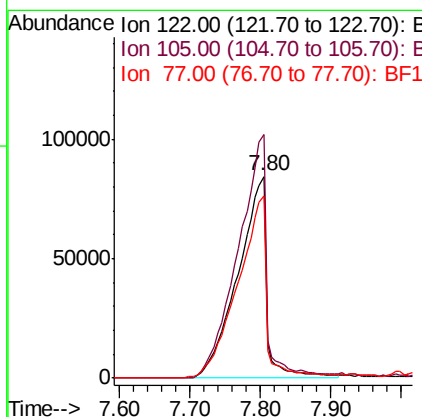
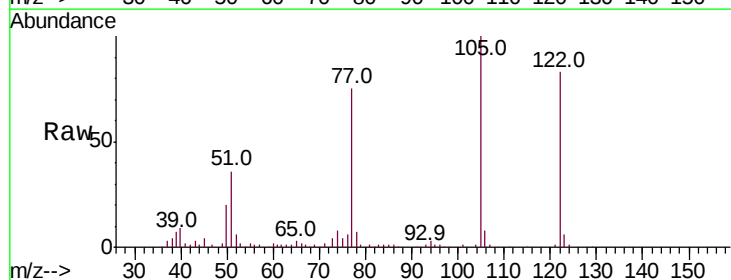
Instrument :
 BNA_F
 ClientSampleId :

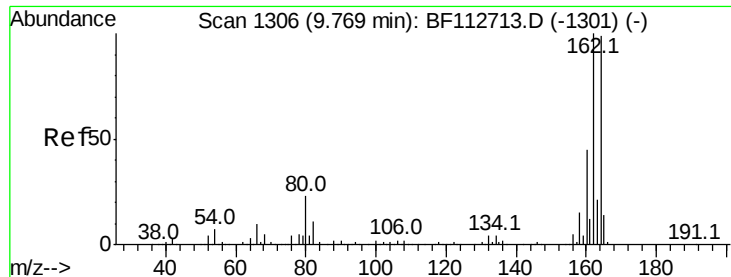
Tot Ion	Ratio	Lower	Upper
122	100		
107	1.4	89.4	134.0#
121	1.7	45.5	68.3#



#32
 Benzoic acid
 Concen: 31.223 ng
 RT: 7.80 min Scan# 972
 Delta R.T. -0.01 min
 Lab File: BF113255.D
 Acq: 23 Mar 2019 11:24

Tgt Ion	Ratio	Lower	Upper
122	100		
105	120.8	106.8	146.8
77	90.3	79.4	119.4

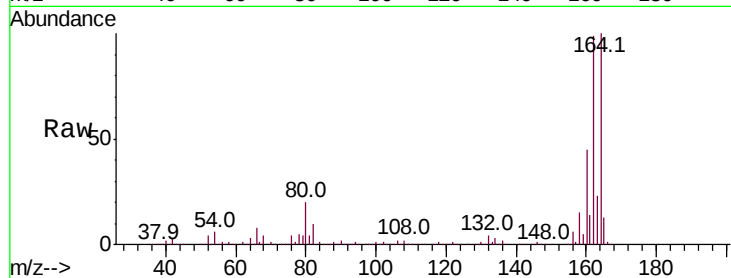




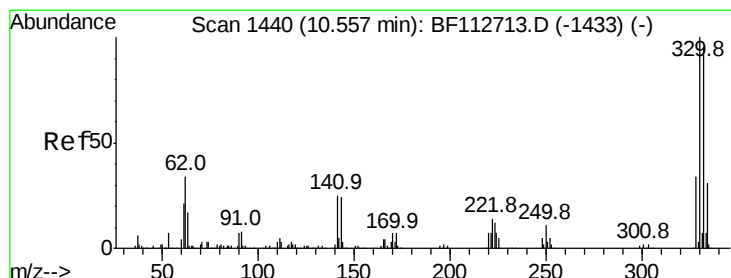
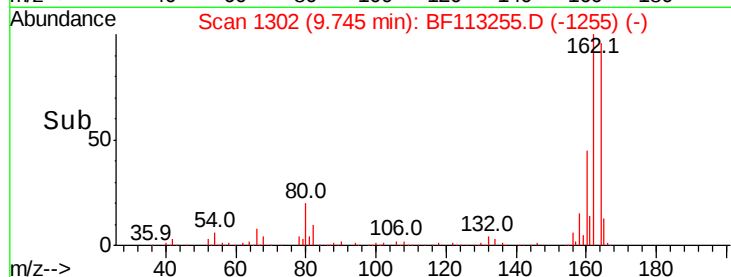
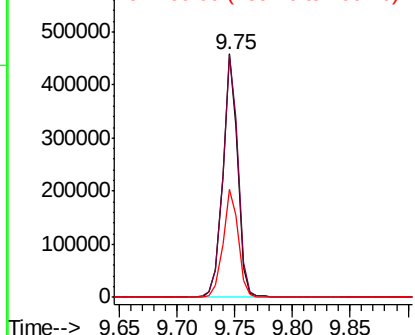
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.02 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 405714
Ion Ratio Lower Upper
164 100
162 99.5 80.6 120.8
160 44.6 36.0 54.0

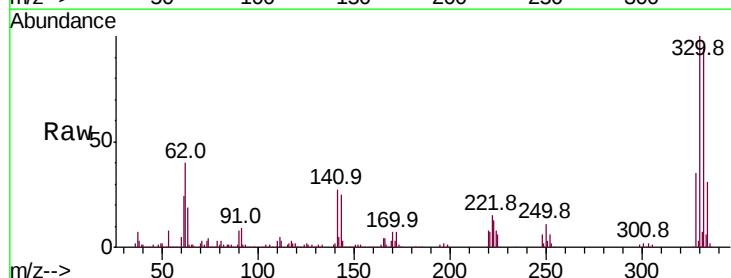


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

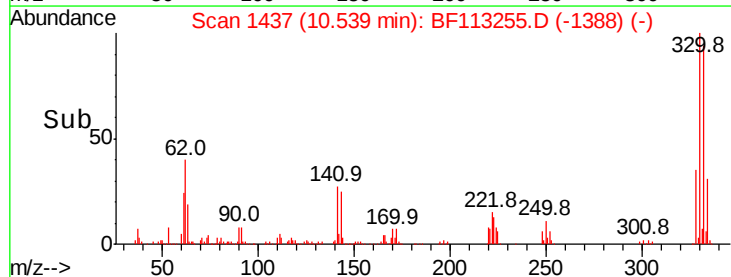
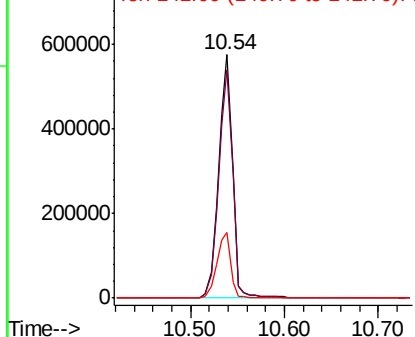


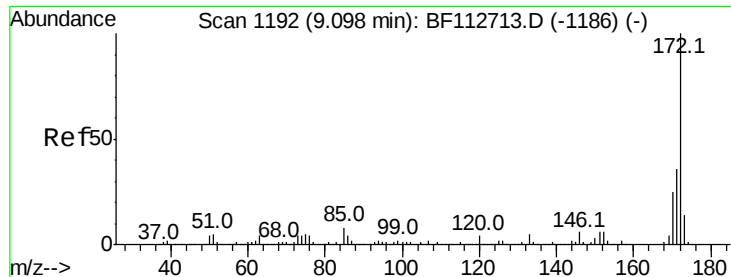
#42
2,4,6-Tribromophenol
Concen: 137.853 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.01 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion:330 Resp: 593754
Ion Ratio Lower Upper
330 100
332 94.9 76.2 114.4
141 27.8 27.0 40.6



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



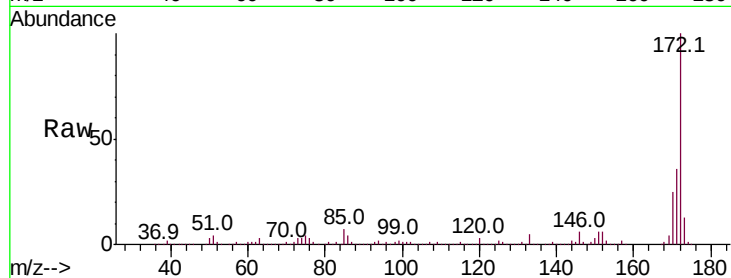


#45
 2-Fluorobiphenyl
 Concen: 63.583 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.02 min
 Lab File: BF113255.D
 Acq: 23 Mar 2019 11:24

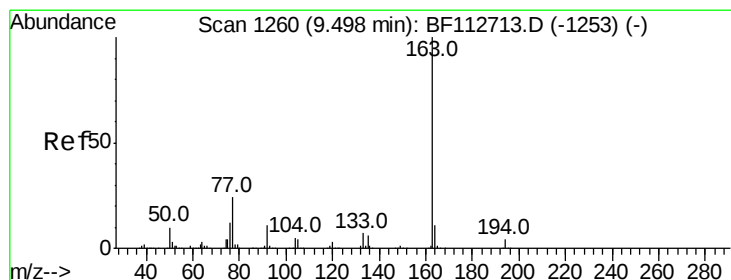
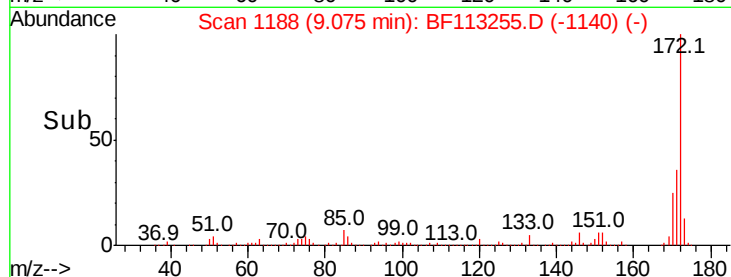
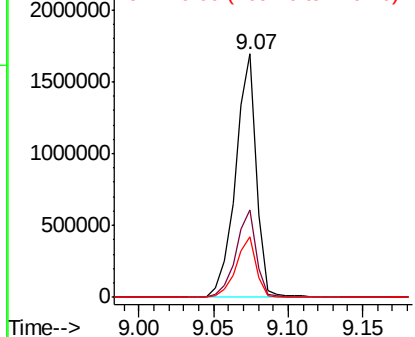
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1663938

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.9	20.0	30.0



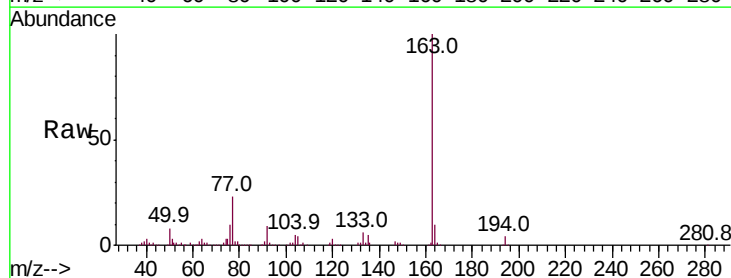
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



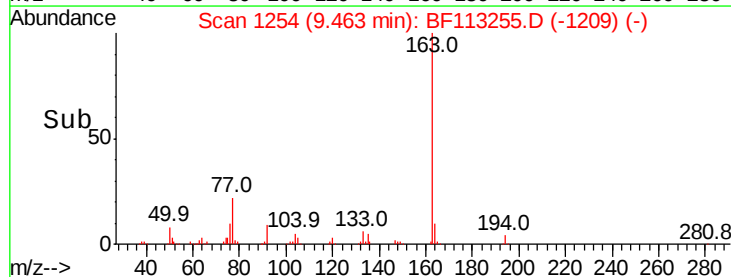
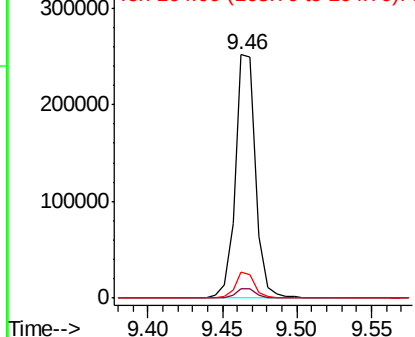
#50
 Dimethylphthalate
 Concen: 8.014 ng
 RT: 9.46 min Scan# 1254
 Delta R.T. -0.04 min
 Lab File: BF113255.D
 Acq: 23 Mar 2019 11:24

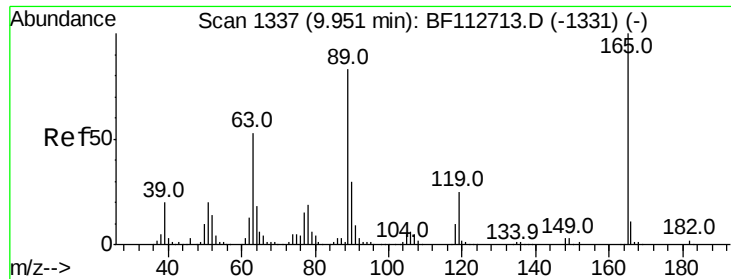
Tgt Ion:163 Resp: 239739

Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.4
164	10.5	8.4	12.6



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





#57

2,4-Dinitrotoluene

Concen: 6.789 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.21 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 52574

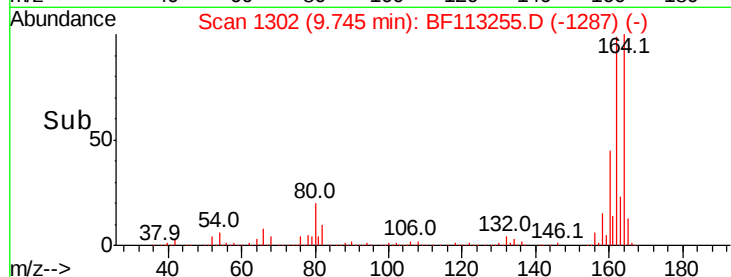
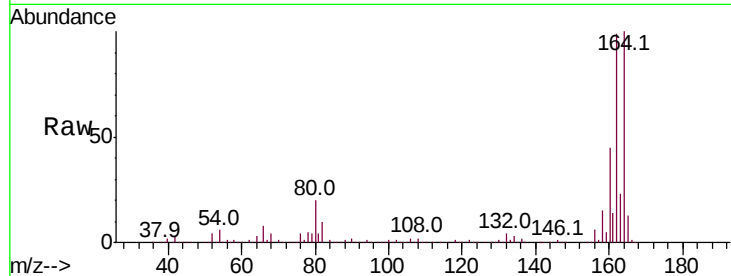
Ion Ratio Lower Upper

165 100

63 1.4 42.2 63.2#

89 1.3 66.2 99.4#

182 0.0 1.8 2.6#

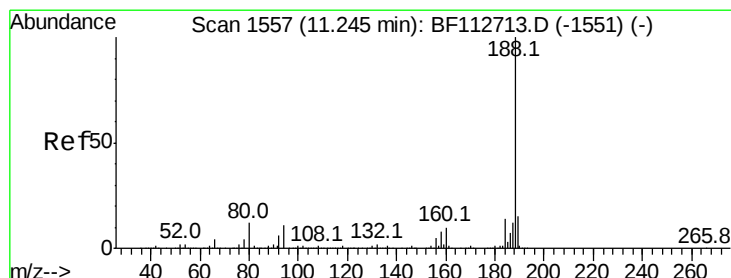
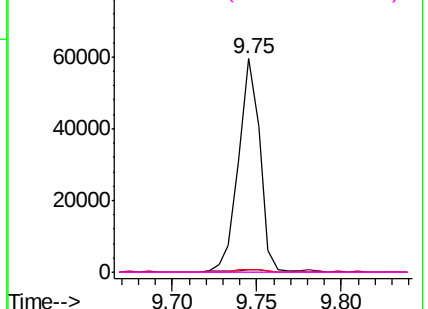


Abundance Ion 165.00 (164.70 to 165.70): E

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1554

Delta R.T. -0.02 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

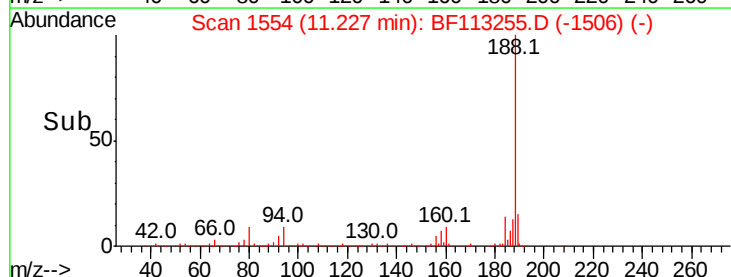
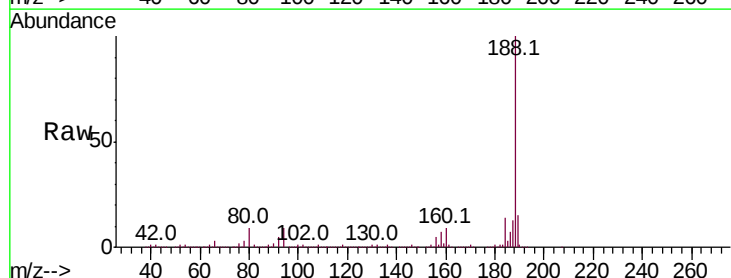
Tgt Ion:188 Resp: 823404

Ion Ratio Lower Upper

188 100

94 9.2 9.0 13.4

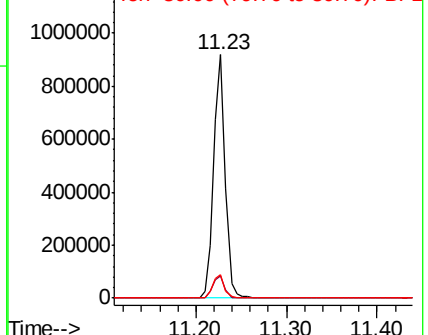
80 9.5 9.2 13.8

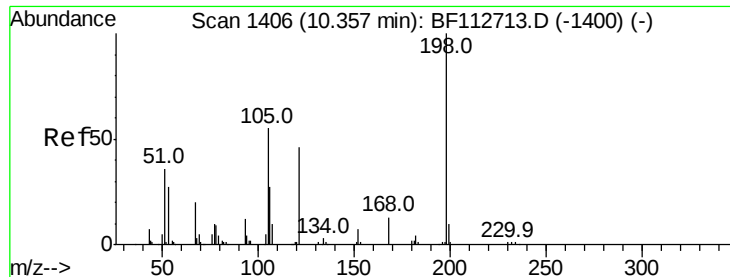


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 4.874 ng

RT: 10.54 min Scan# 1437

Delta R.T. 0.18 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampled :

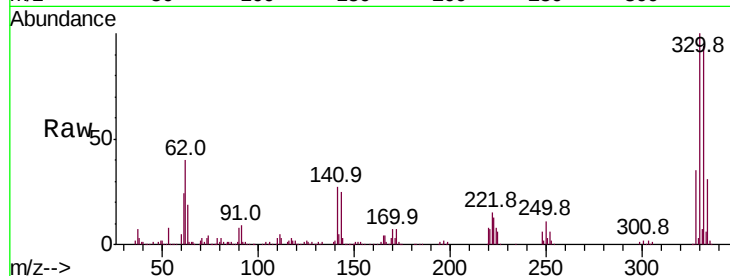
Tot Ion:198 Resp: 977

Ion Ratio Lower Upper

198 100

51 242.0 43.8 83.8#

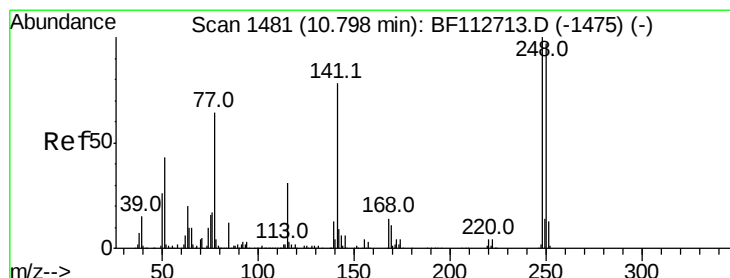
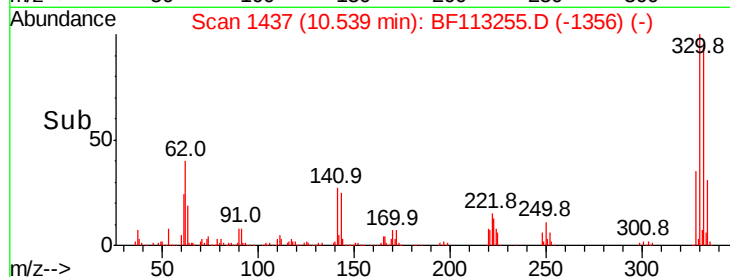
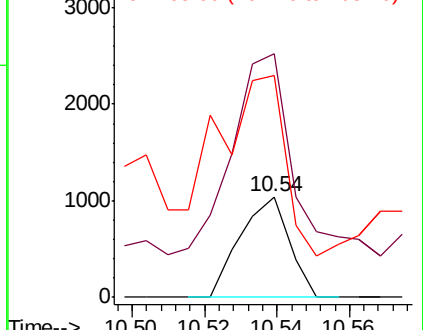
105 220.9 36.5 76.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 3.874 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.25 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

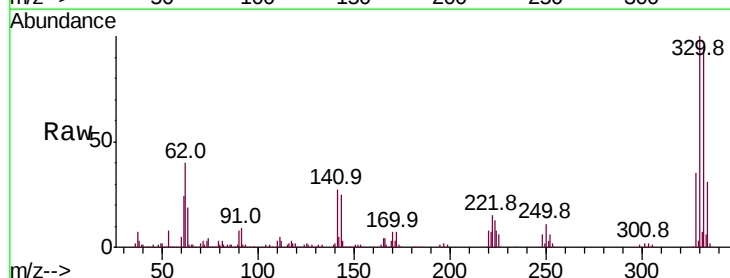
Tgt Ion:248 Resp: 33600

Ion Ratio Lower Upper

248 100

250 189.8 77.5 116.3#

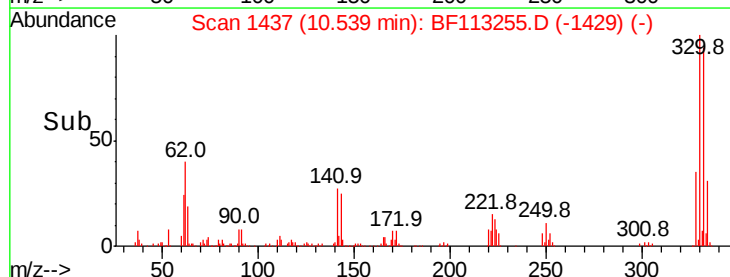
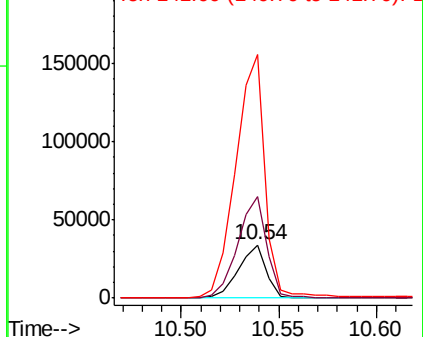
141 456.2 62.4 93.6#

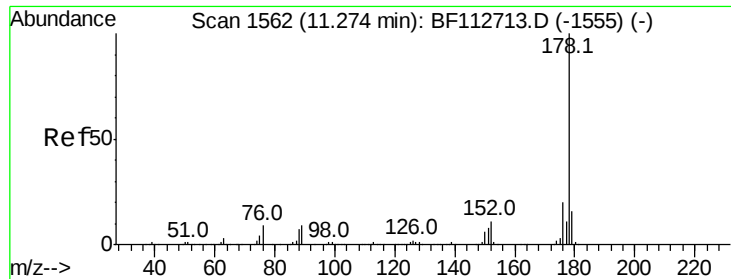


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 2.524 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.02 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

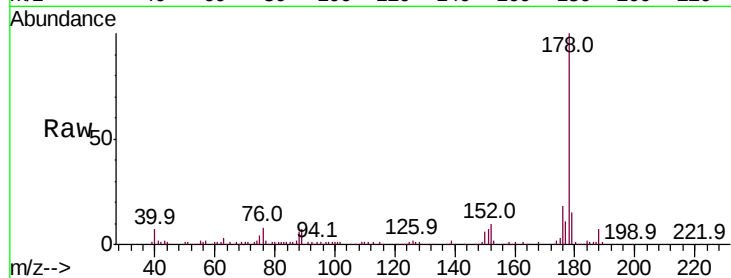
Tot Ion:178 Resp: 103406

Ion Ratio Lower Upper

178 100

176 17.5 16.3 24.5

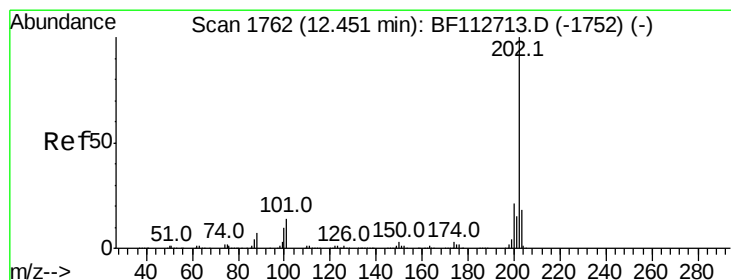
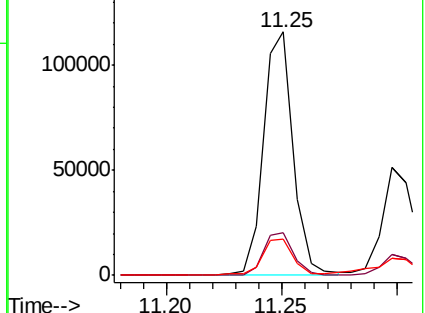
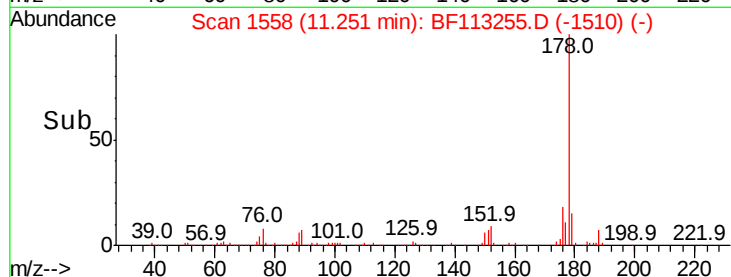
179 15.1 12.7 19.1



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: 14.317 ng

RT: 12.43 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

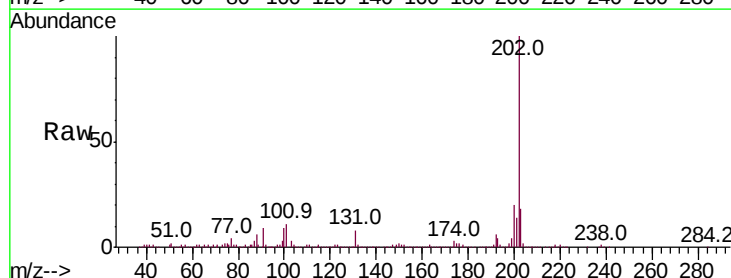
Tgt Ion:202 Resp: 628388

Ion Ratio Lower Upper

202 100

101 11.4 0.0 33.8

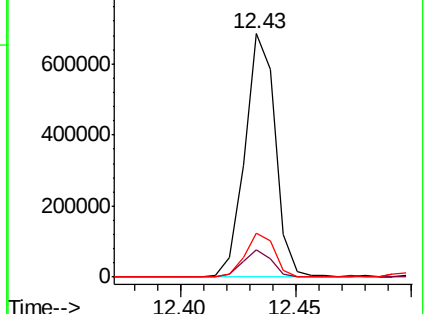
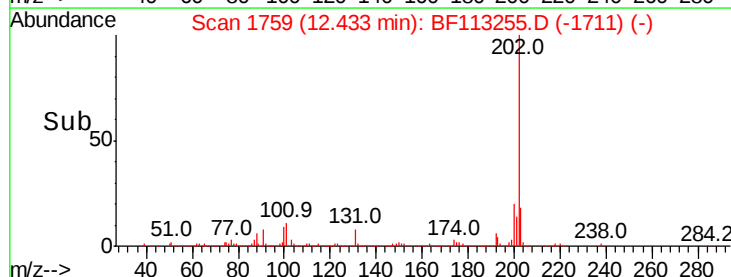
203 18.2 0.0 38.4

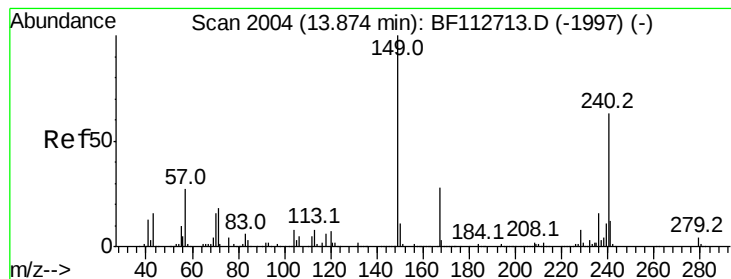


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

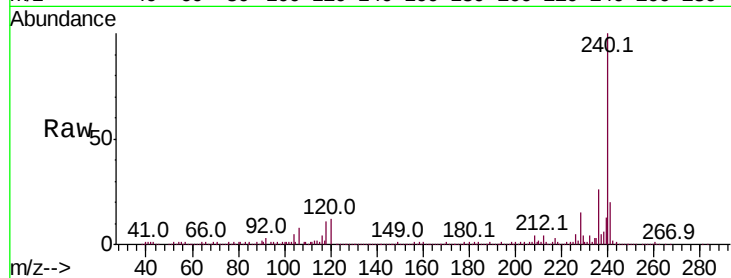
Tot Ion:240 Resp: 556484

Ion Ratio Lower Upper

240 100

120 11.8 8.9 13.3

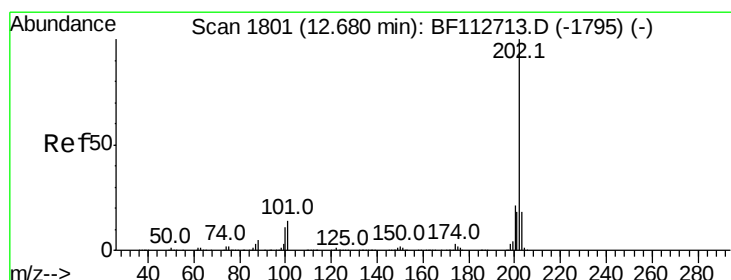
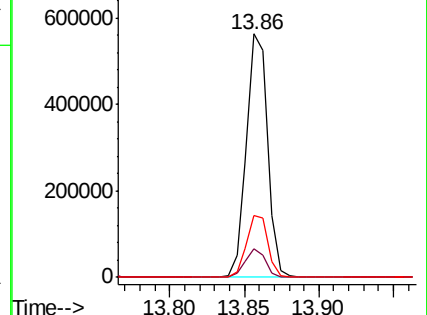
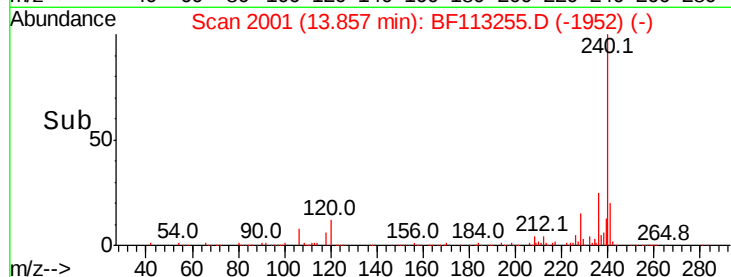
236 25.5 20.7 31.1



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



#78

Pyrene

Concen: 11.796 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

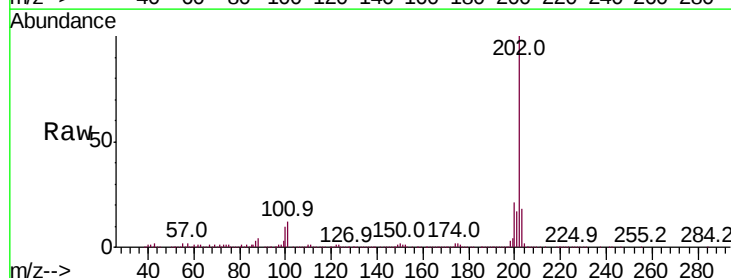
Tgt Ion:202 Resp: 553389

Ion Ratio Lower Upper

202 100

200 20.6 17.0 25.4

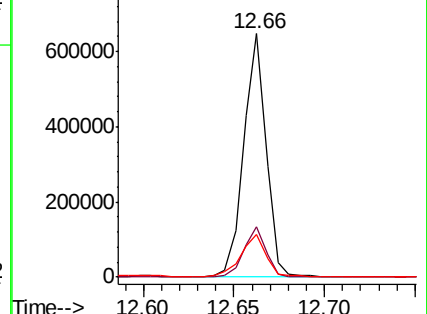
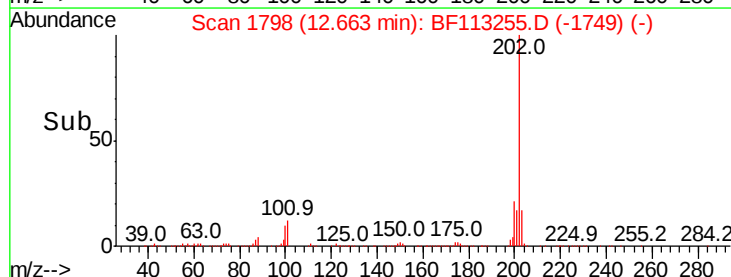
203 17.5 14.4 21.6

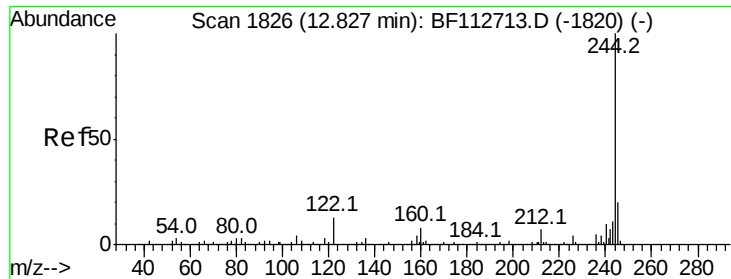


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 57.885 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

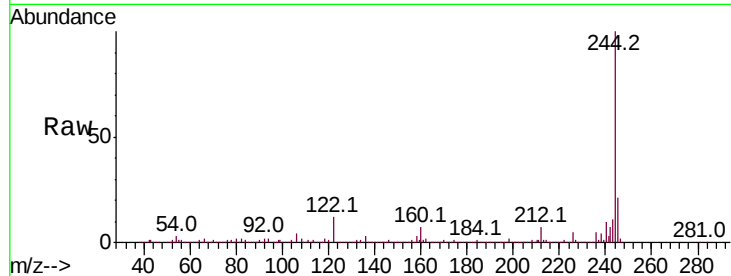
Tot Ion:244 Resp: 1661710

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

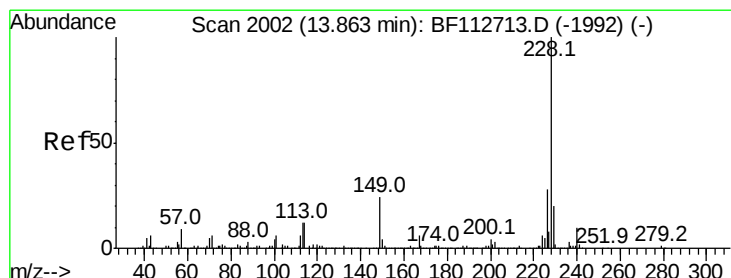
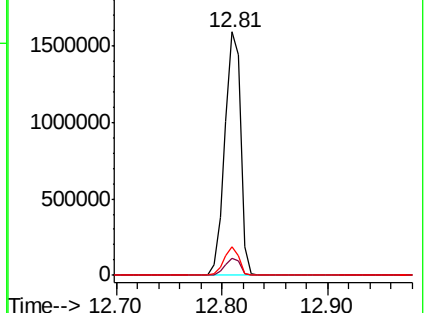
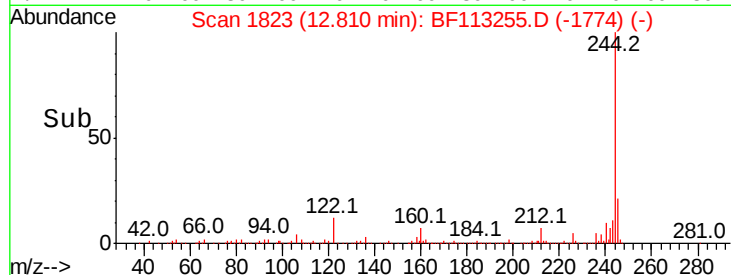
122 11.9 10.5 15.7



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: 5.577 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

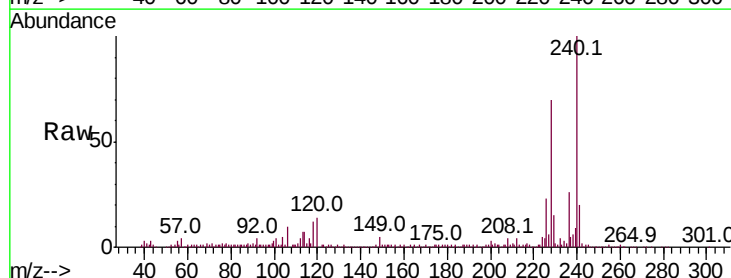
Tgt Ion:228 Resp: 215085

Ion Ratio Lower Upper

228 100

226 32.5 22.2 33.4

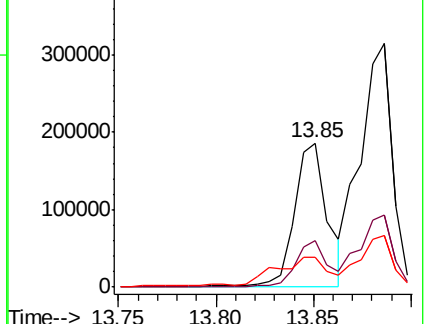
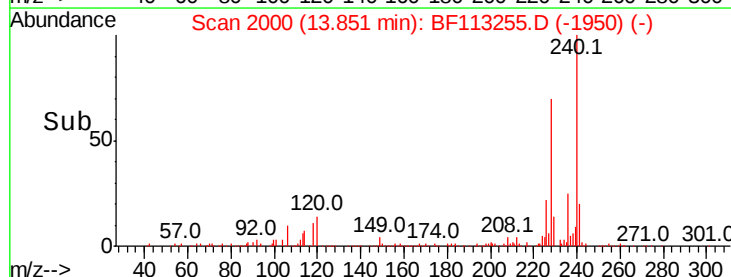
229 21.2 16.0 24.0

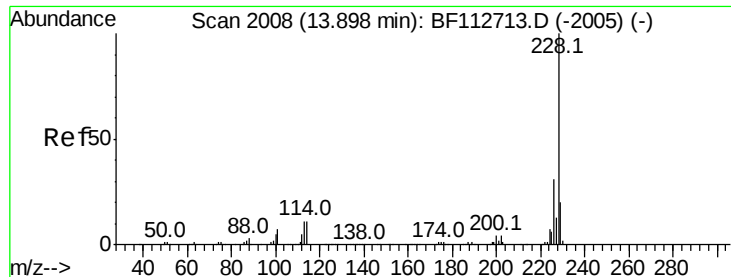


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

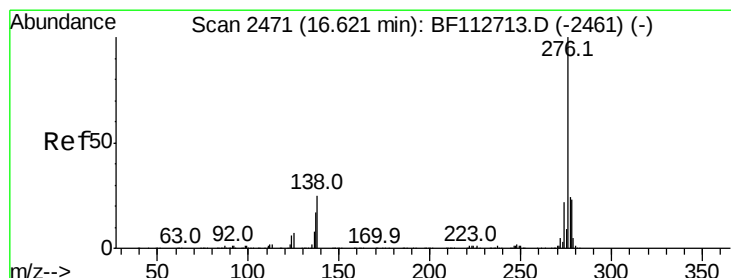
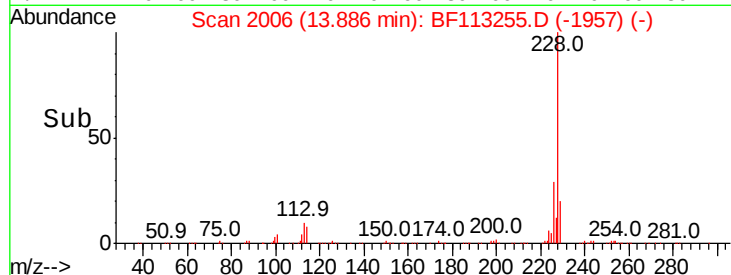
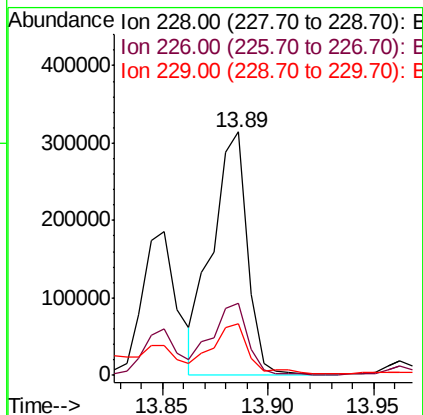
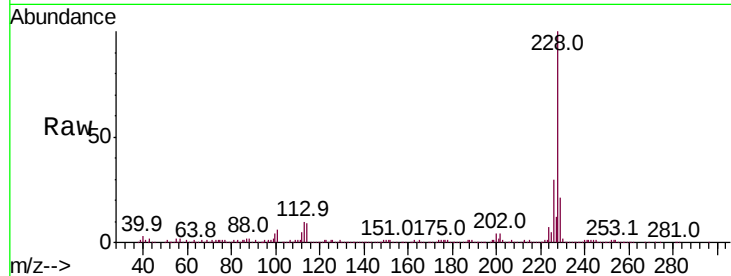




#83
Chrysene
Concen: 9.513 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

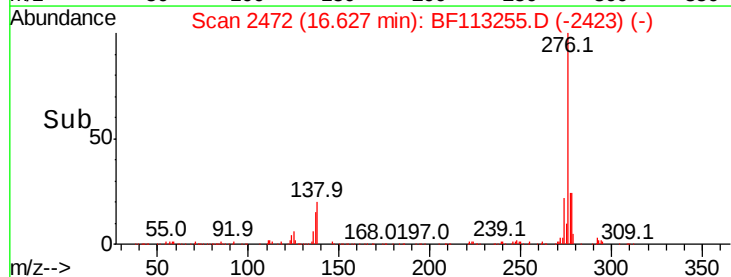
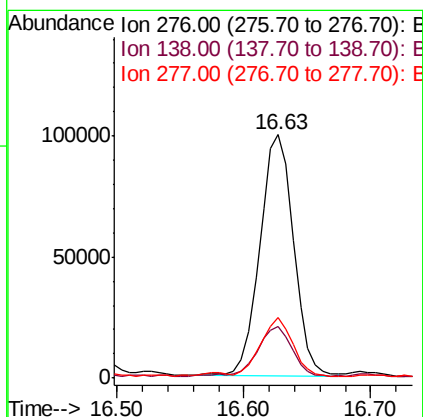
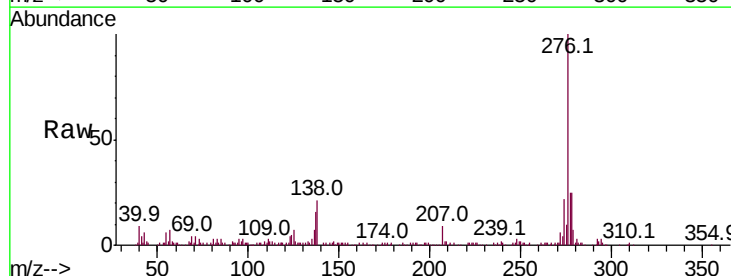
Instrument :
BNA_F
ClientSampleId :

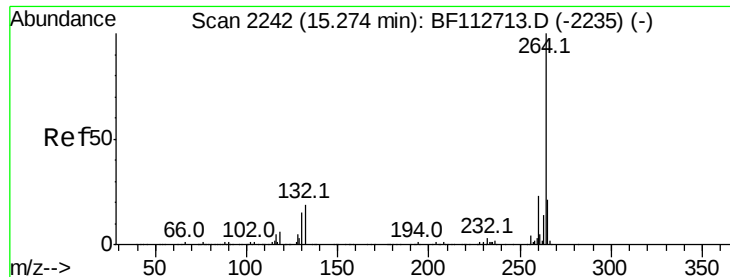
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.9	37.3
229	21.0	16.3	24.5



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.744 ng
RT: 16.63 min Scan# 2472
Delta R.T. -0.01 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.5	23.2	34.8#
277	23.0	19.9	29.9





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

Instrument :

BNA_F

ClientSampleId :

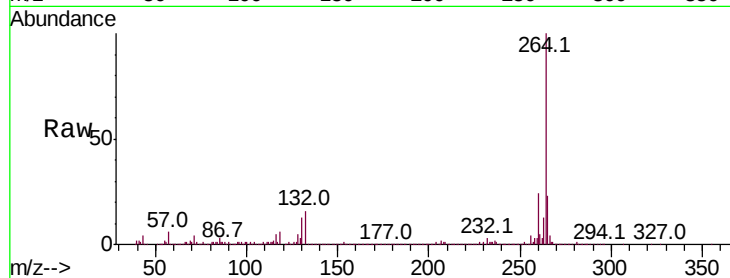
Tot Ion:264 Resp: 492809

Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

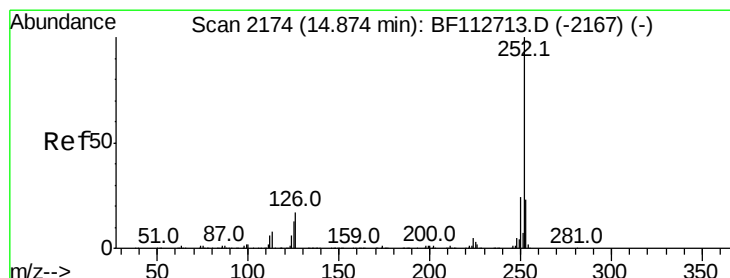
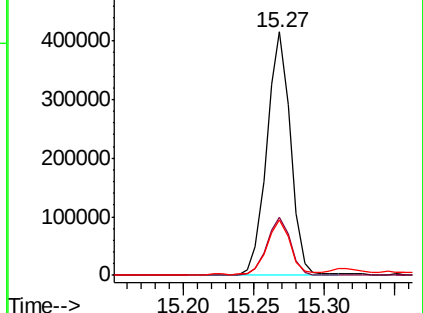
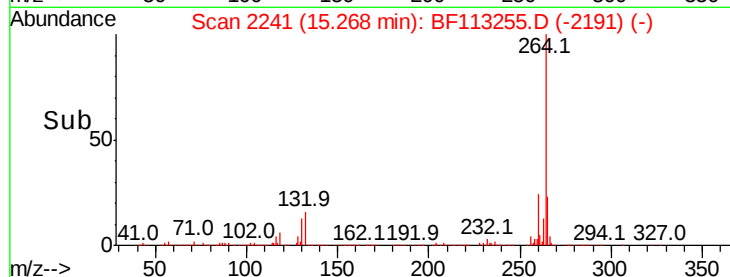
265 22.8 17.2 25.8



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: 22.191 ng

RT: 14.87 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BF113255.D

Acq: 23 Mar 2019 11:24

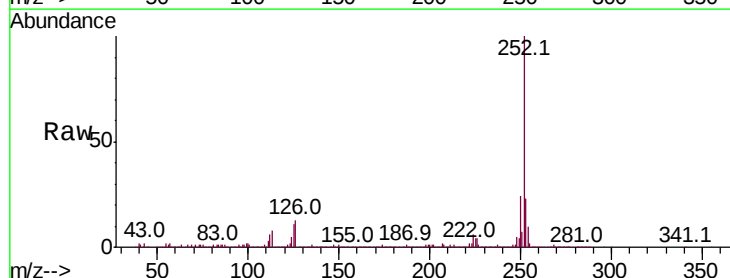
Tgt Ion:252 Resp: 707355

Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

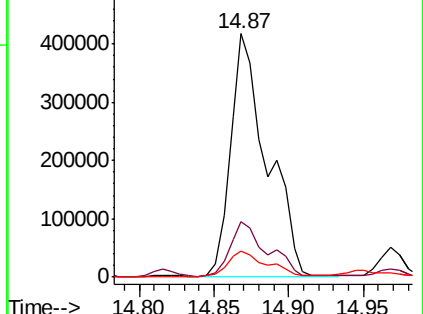
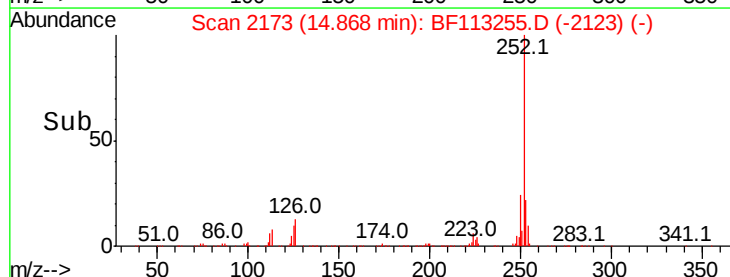
125 10.6 10.2 15.2

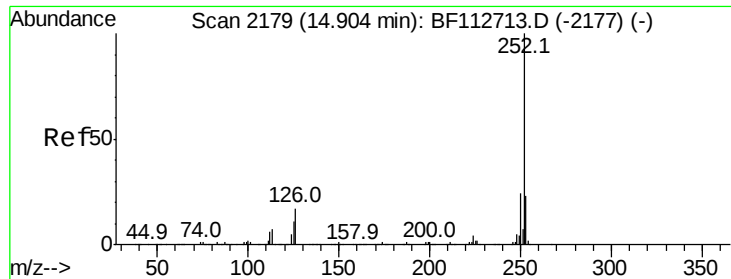


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

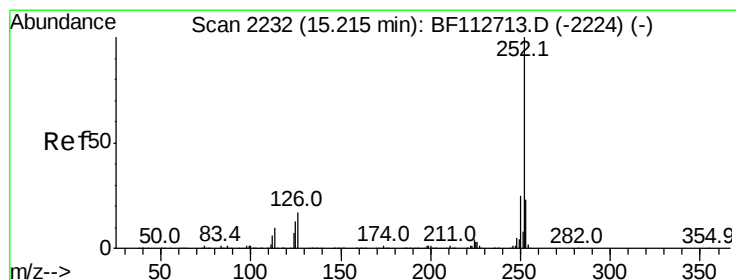
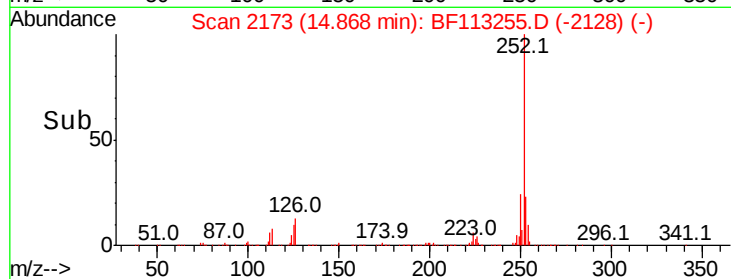
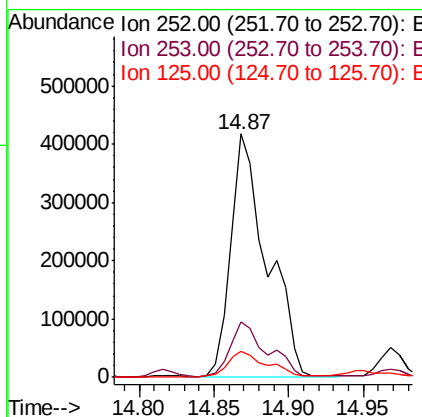
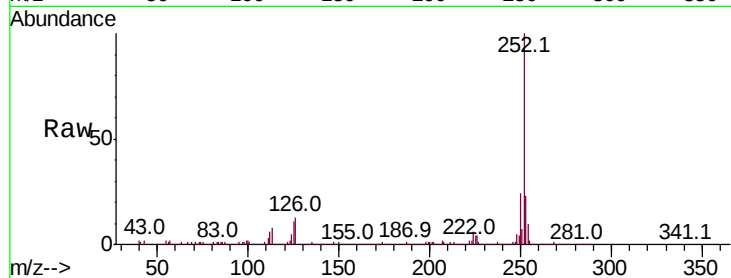




#89
Benzo(k)fluoranthene
Concen: 24.498 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

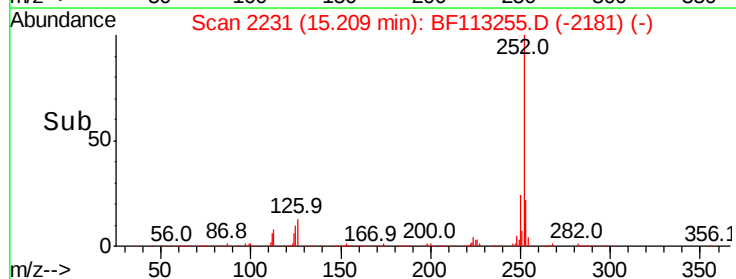
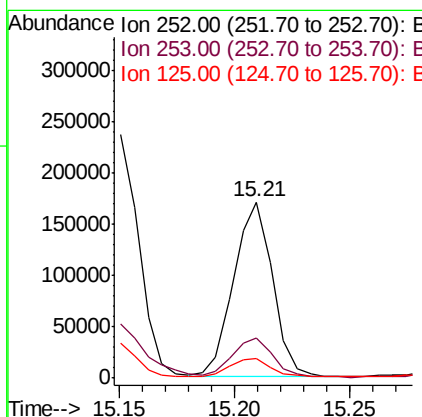
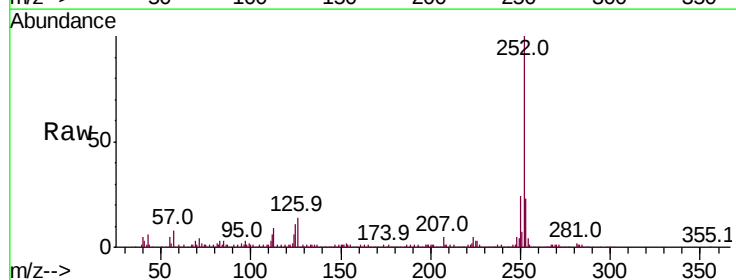
Instrument :
BNA_F
ClientSampleId :

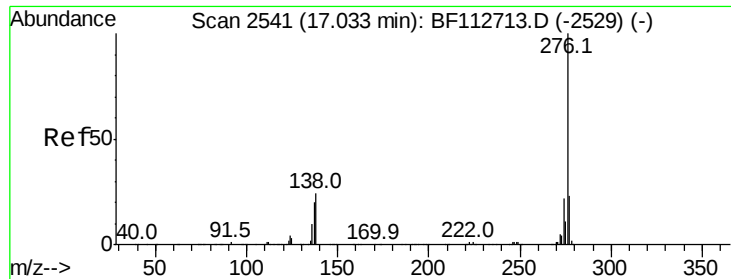
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	10.6	9.8	14.6



#90
Benzo(a)pyrene
Concen: 7.130 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF113255.D
Acq: 23 Mar 2019 11:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	10.9	10.7	16.1





#92
 Benzo(a,h,i)perylene
 Concen: 6.858 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. -0.01 min
 Lab File: BF113255.D
 Acq: 23 Mar 2019 11:24

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	27.8
138	20.0	19.4	29.0

