

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
 Data File : BF114844.D
 Acq On : 6 Jun 2019 3:03
 Operator : HP/JU
 Sample : K3163-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 06 05:06:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 04 16:57:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	356506	20.00	ng	0.00
21) Naphthalene-d8	7.95	136	1363074	20.00	ng	0.00
39) Acenaphthene-d10	9.70	164	657007	20.00	ng	0.00
64) Phenanthrene-d10	11.17	188	1167245	20.00	ng	0.00
76) Chrysene-d12	13.80	240	812469	20.00	ng	0.00
87) Perylene-d12	15.18	264	647633	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	1041674	51.06	ng	0.00
7) Phenol-d6	6.30	99	1283879	51.72	ng	0.00
23) Nitrobenzene-d5	7.23	82	749050	33.83	ng	0.00
42) 2,4,6-Tribromophenol	10.48	330	331905	46.88	ng	0.00
45) 2-Fluorobiphenyl	9.03	172	1532898	43.71	ng	0.00
79) Terphenyl-d14	12.76	244	1510857	36.16	ng	0.00

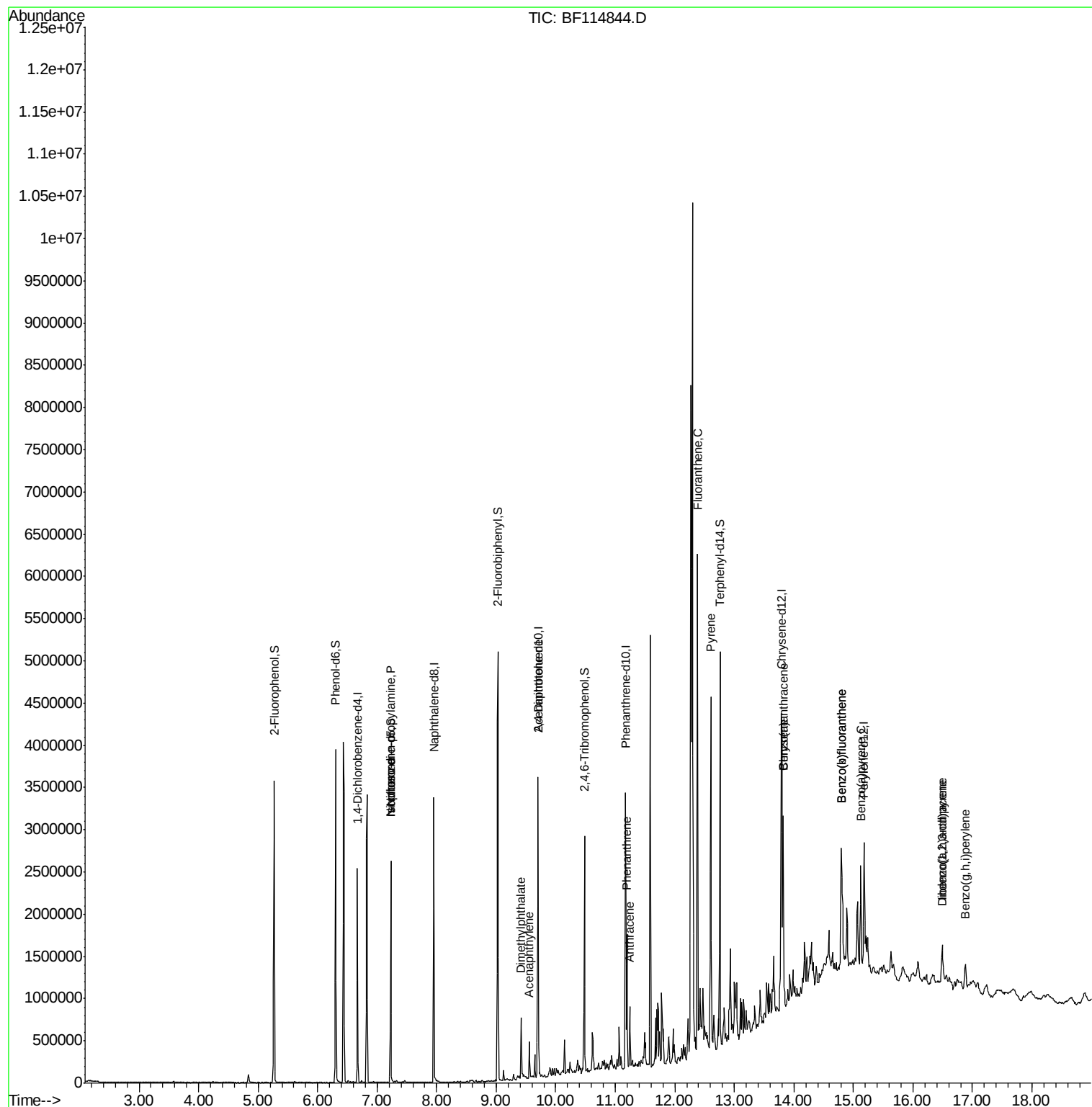
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.23	70	99750	6.070	ng	# 77
25) Isophorone	7.23	82	735280	16.797	ng	# 61
49) Acenaphthylene	9.56	152	171174	2.853	ng	94
50) Dimethylphthalate	9.42	163	283588	5.910	ng	98
57) 2,4-Dinitrotoluene	9.70	165	87960	6.200	ng	# 32
58) Fluorene	10.24	166	36430	Below Cal		# 97
71) Phenanthrene	11.20	178	595574	10.688	ng	95
72) Anthracene	11.25	178	250955	4.279	ng	95
75) Fluoranthene	12.38	202	1712105	29.521	ng	97
78) Pyrene	12.61	202	1674521	23.758	ng	96
81) Benzo(a)anthracene	13.82	228	845223	13.500	ng	98
83) Chrysene	13.82	228	845223	13.878	ng	97
86) Indeno(1,2,3-cd)pyrene	16.49	276	278363	4.006	ng	96
88) Benzo(b)fluoranthene	14.80	252	1024410	24.847	ng	98
89) Benzo(k)fluoranthene	14.80	252	1024410	29.258	ng	98
90) Benzo(a)pyrene	15.12	252	511543	14.335	ng	# 97
91) Dibenzo(a,h)anthracene	16.50	278	80487	2.382	ng	# 88
92) Benzo(g,h,i)perylene	16.88	276	241171	7.096	ng	97

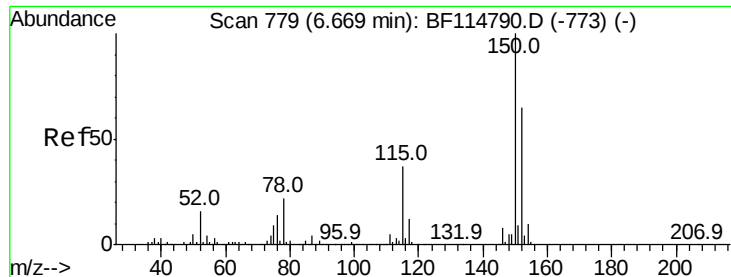
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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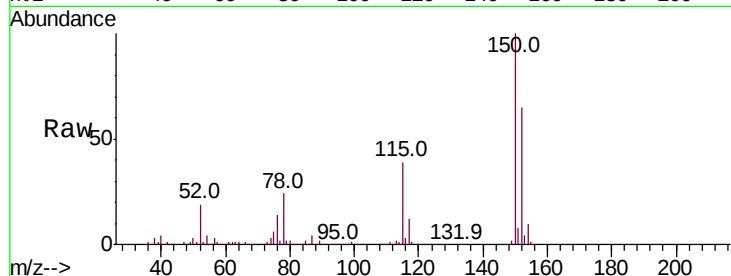


#1

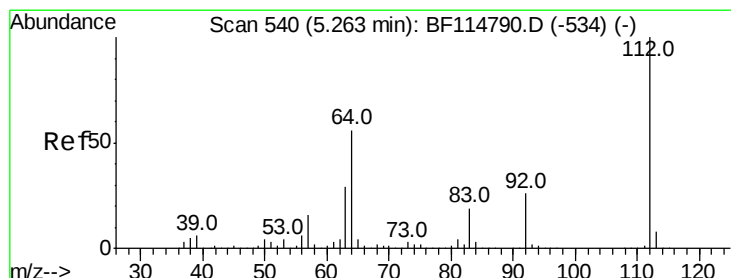
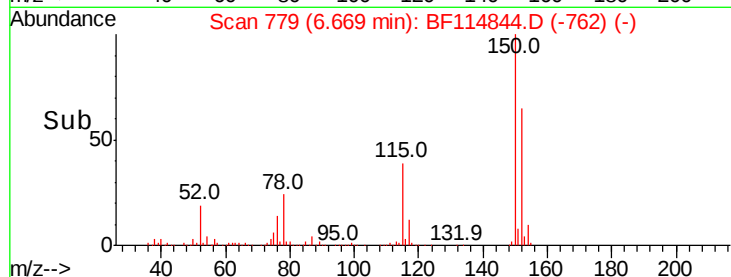
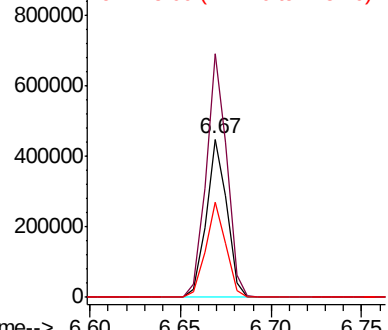
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 779
Delta R.T. 0.00 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 356506
Ion Ratio Lower Upper
152 100
150 154.0 124.0 186.0
115 60.3 46.3 69.5



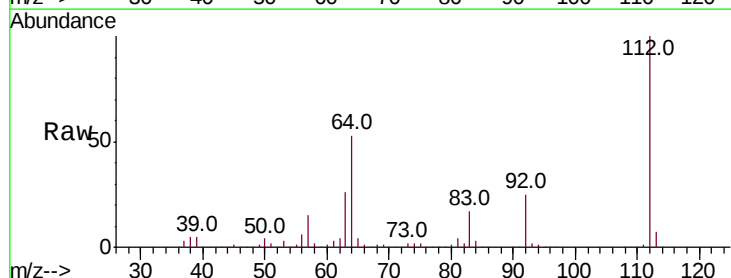
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



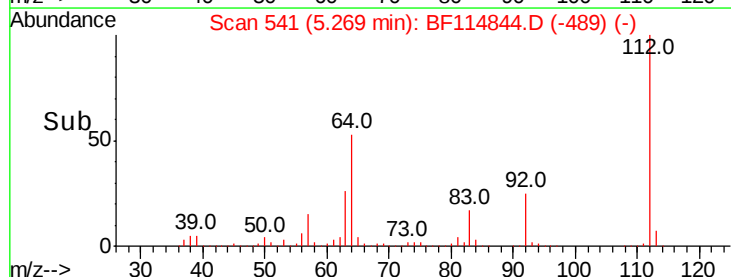
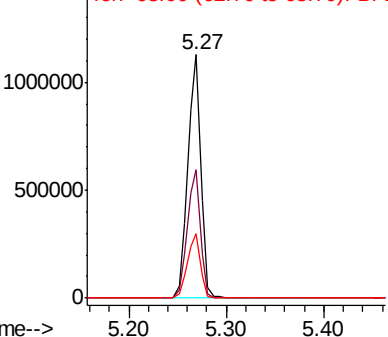
#5

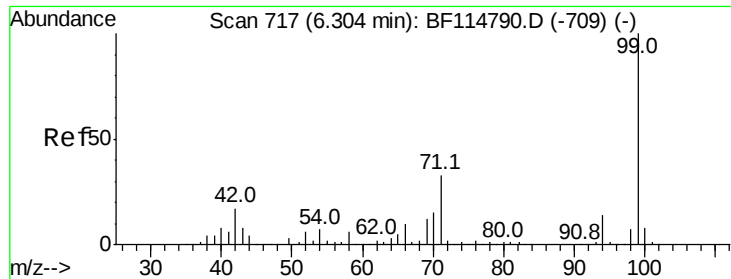
2-Fluorophenol
Concen: 51.056 ng
RT: 5.27 min Scan# 541
Delta R.T. 0.01 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion:112 Resp: 1041674
Ion Ratio Lower Upper
112 100
64 52.5 44.6 66.8
63 26.4 23.0 34.4



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: 51.715 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

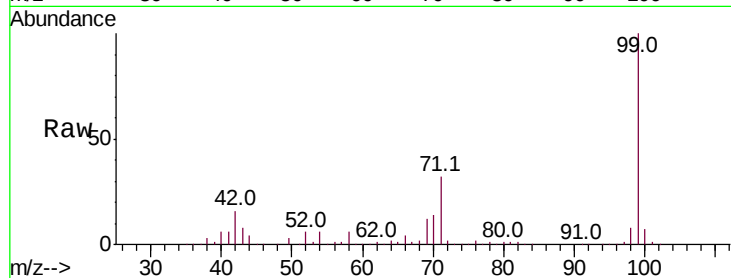
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1283879

Ion	Ratio	Lower	Upper
99	100		
42	15.9	13.3	19.9
71	31.6	26.3	39.5

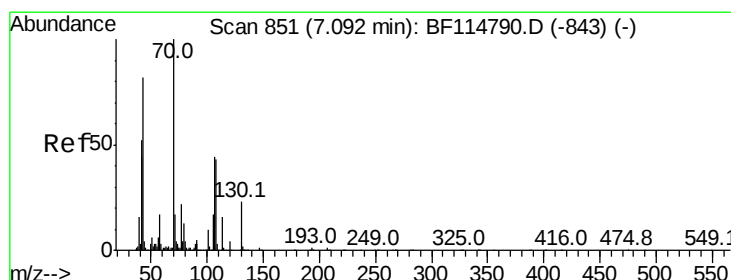
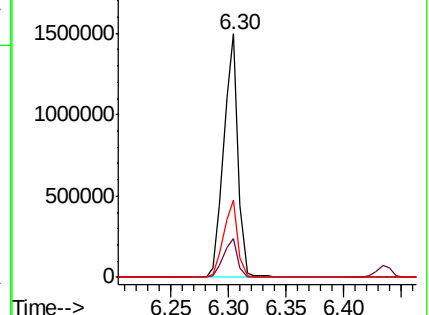
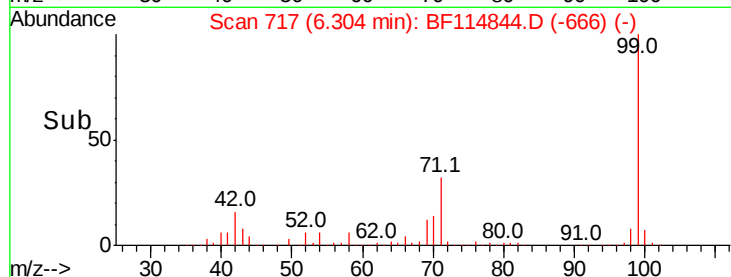


Abundance

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: 6.070 ng

RT: 7.23 min Scan# 874

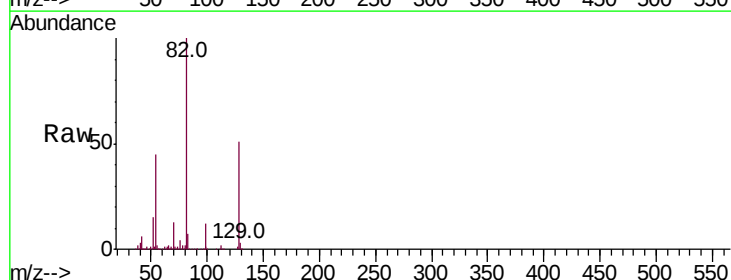
Delta R.T. 0.14 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Tgt Ion: 70 Resp: 99750

Ion	Ratio	Lower	Upper
70	100		
42	43.0	41.8	62.8
101	0.0	8.2	12.4#
130	2.0	18.5	27.7#



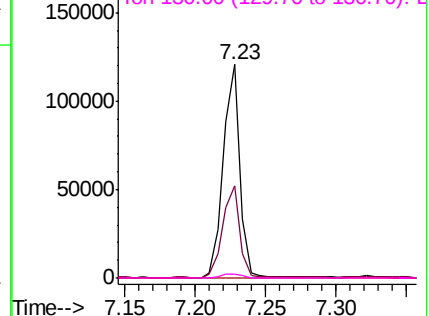
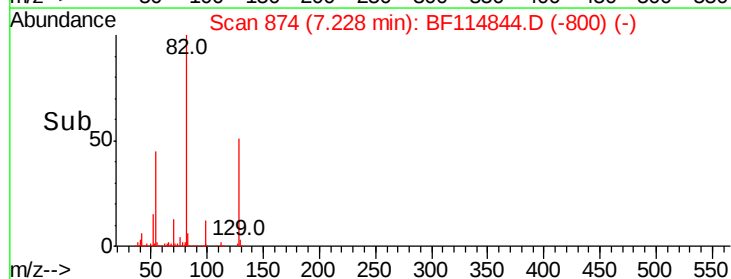
Abundance

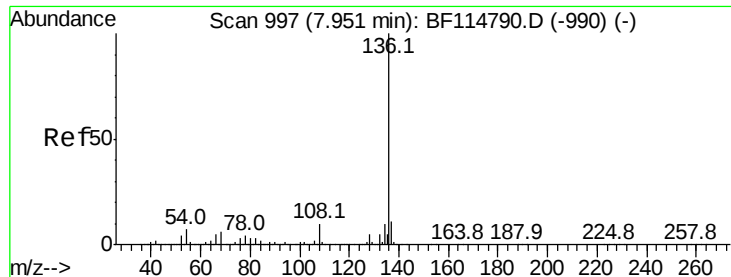
Ion 70.00 (69.70 to 70.70): BF1

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



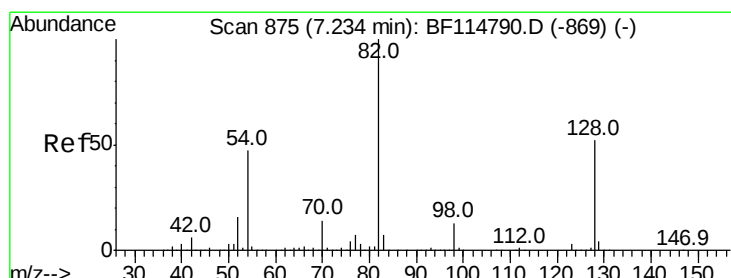
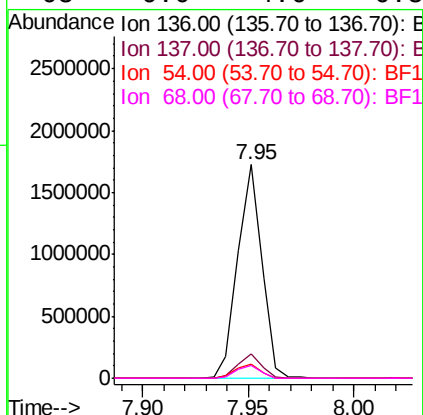
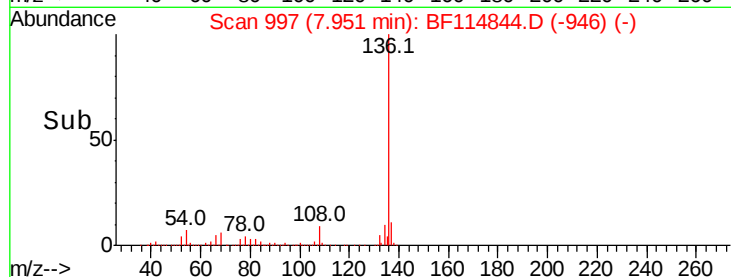
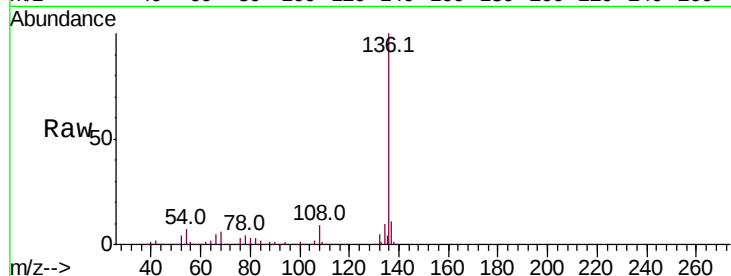


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.95 min Scan# 997
Delta R.T. 0.00 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136 Resp: 1363074

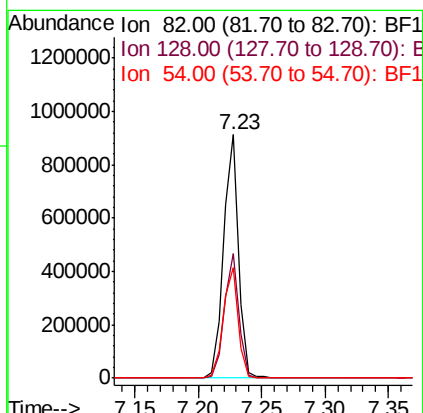
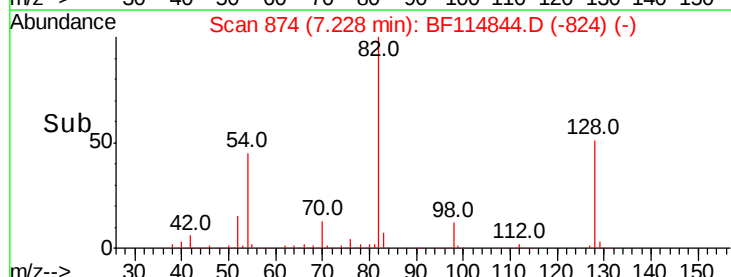
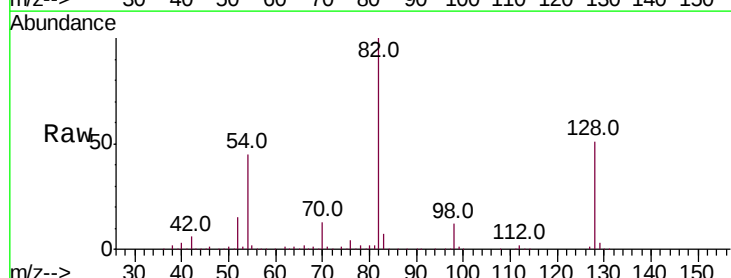
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.7	5.4	8.0
68	6.0	4.6	6.8

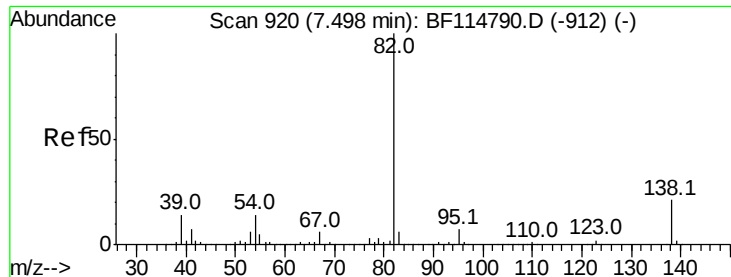


#23
Nitrobenzene-d5
Concen: 33.828 ng
RT: 7.23 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion: 82 Resp: 749050

Ion	Ratio	Lower	Upper
82	100		
128	51.3	41.8	62.6
54	45.2	37.9	56.9





#25

Isophorone

Concen: 16.797 ng

RT: 7.23 min Scan# 874

Delta R.T. -0.27 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampleId :

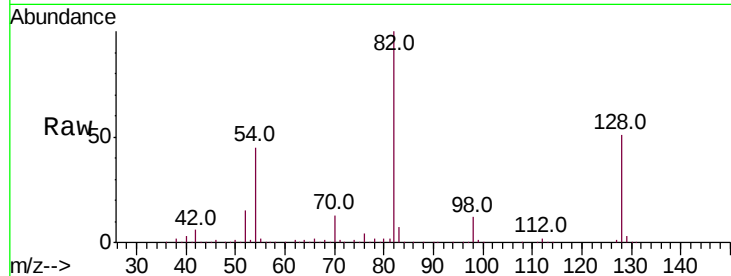
Tot Ion: 82 Resp: 735280

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

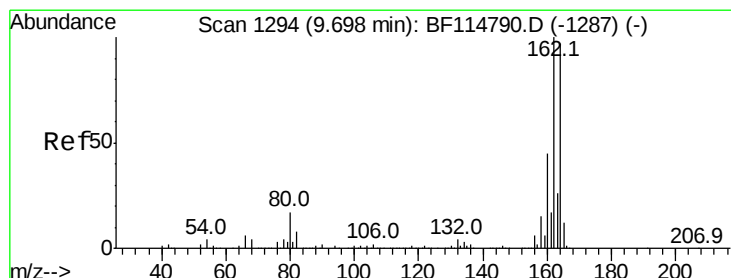
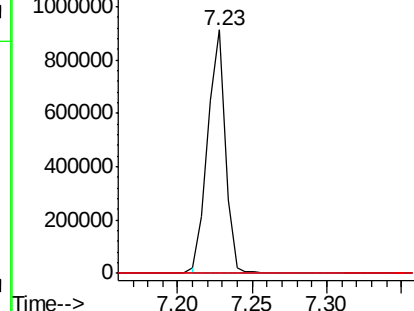
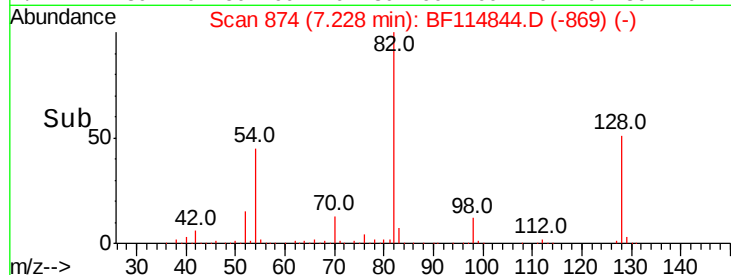
138 0.0 16.9 25.3#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.70 min Scan# 1294

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

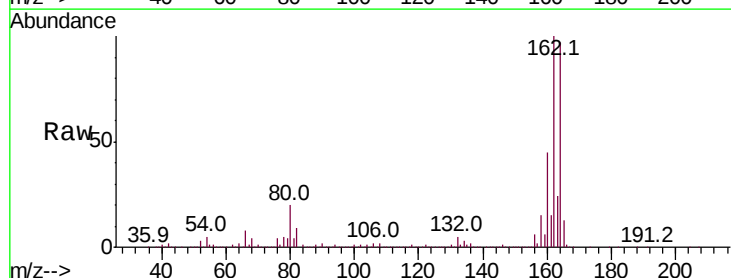
Tgt Ion:164 Resp: 657007

Ion Ratio Lower Upper

164 100

162 102.8 82.3 123.5

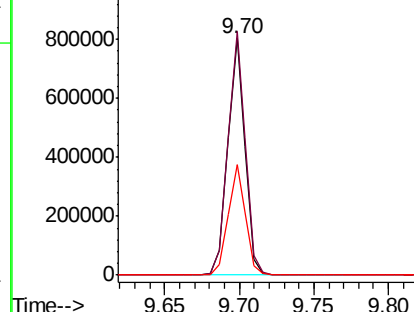
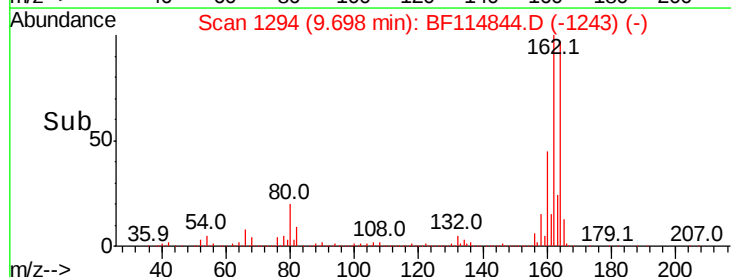
160 46.5 36.7 55.1

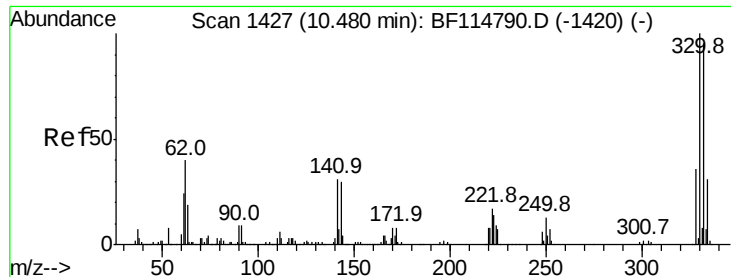


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

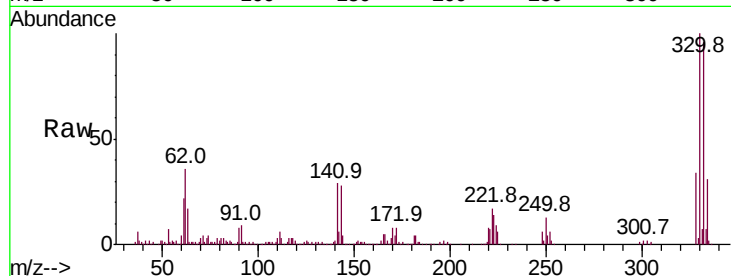




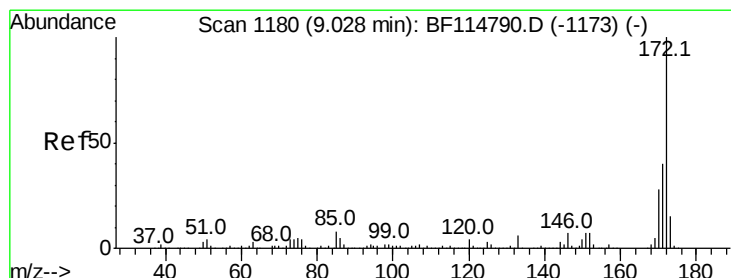
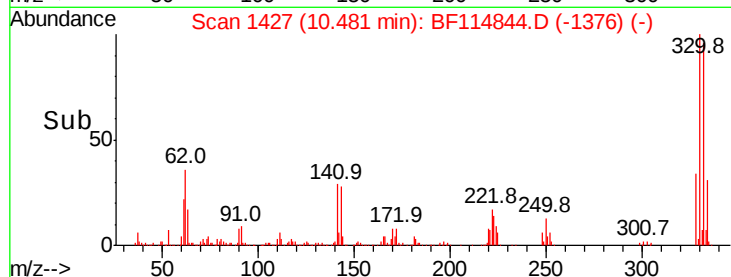
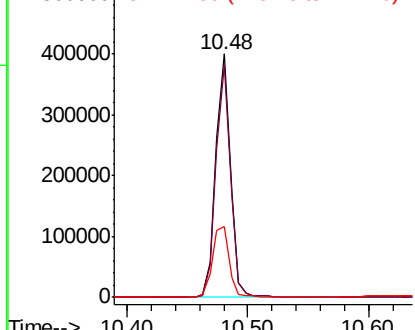
#42
 2,4,6-Tribromophenol
 Concen: 46.877 ng
 RT: 10.48 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: BF114844.D
 Acq: 6 Jun 2019 3:03

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.2	77.3	115.9
141	33.6	26.2	39.4

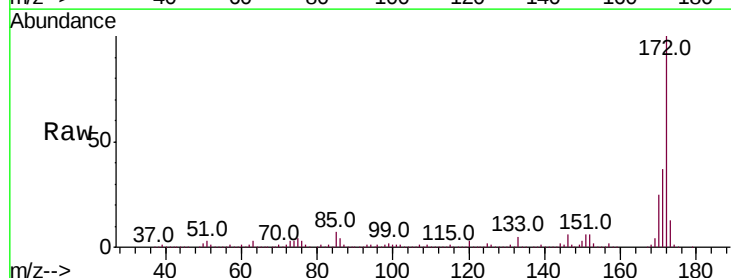


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

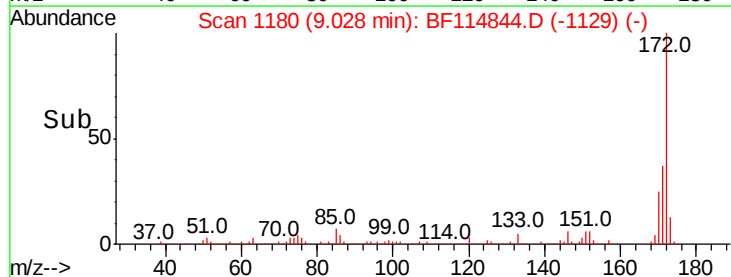
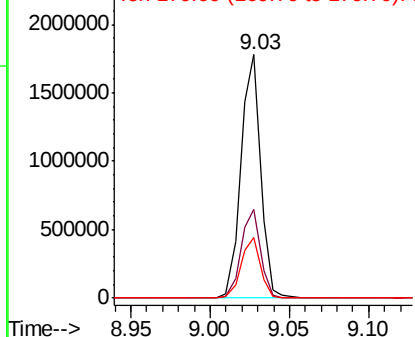


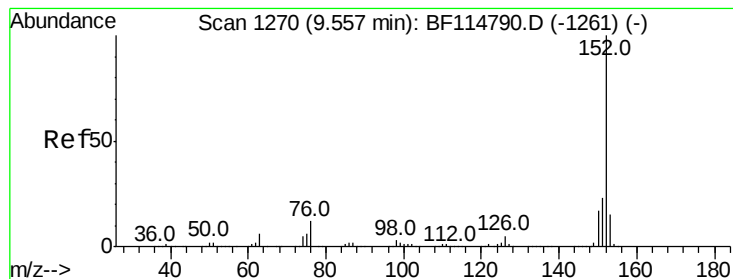
#45
 2-Fluorobiphenyl
 Concen: 43.706 ng
 RT: 9.03 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: BF114844.D
 Acq: 6 Jun 2019 3:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	32.3	48.5
170	24.7	22.4	33.6



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





#49

Acenaphthylene

Concen: 2.853 ng

RT: 9.56 min Scan# 1270

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampled :

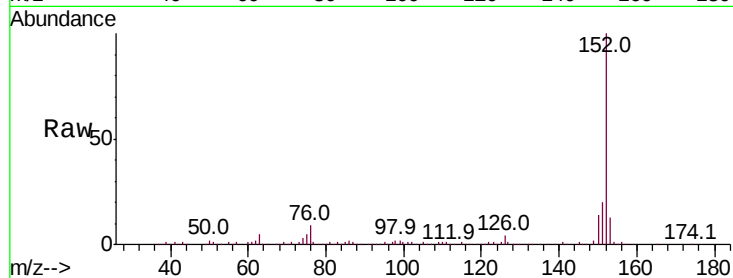
Tot Ion:152 Resp: 171174

Ion Ratio Lower Upper

152 100

151 20.0 18.3 27.5

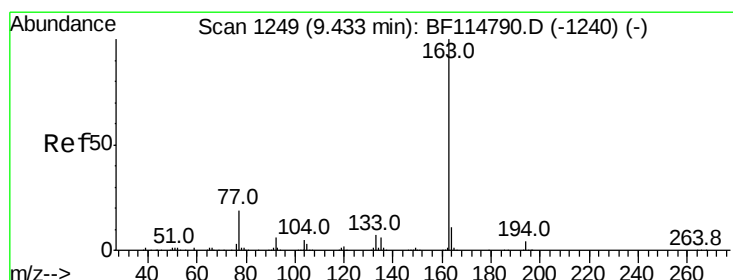
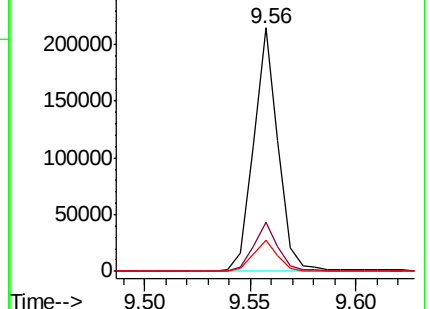
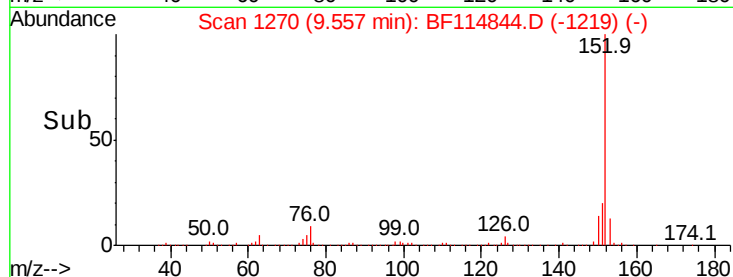
153 12.9 12.3 18.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.910 ng

RT: 9.42 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

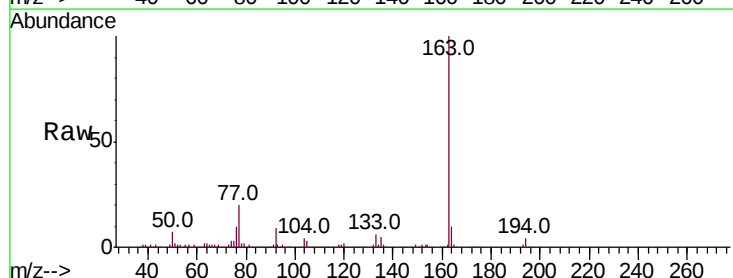
Tgt Ion:163 Resp: 283588

Ion Ratio Lower Upper

163 100

194 3.9 3.4 5.2

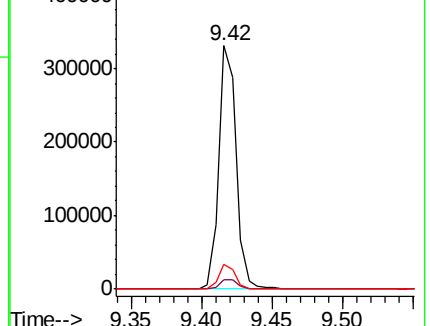
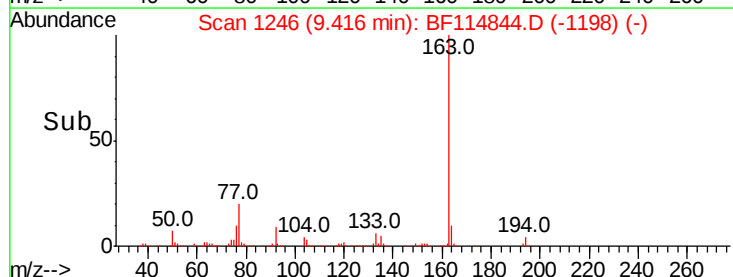
164 10.1 8.6 13.0

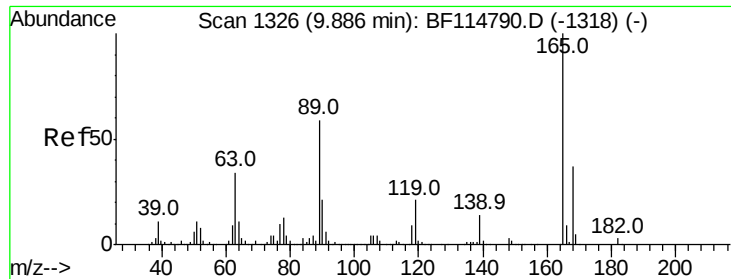


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

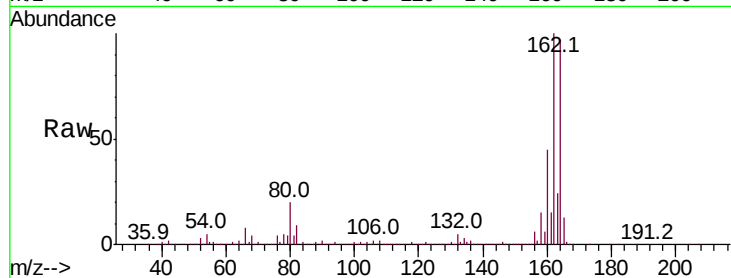




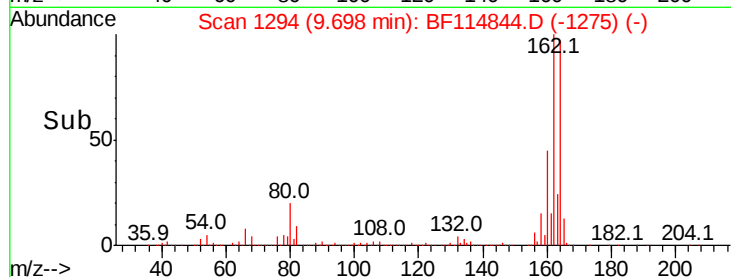
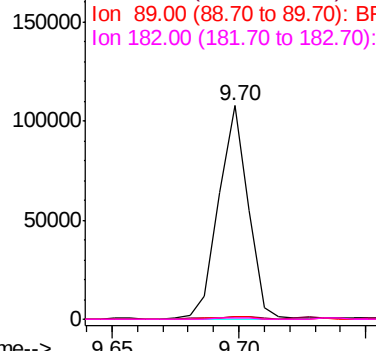
#57
2,4-Dinitrotoluene
Concen: 6.200 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.19 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 87960
Ion Ratio Lower Upper
165 100
63 1.3 27.0 40.4#
89 1.1 47.0 70.6#
182 0.5 2.2 3.2#

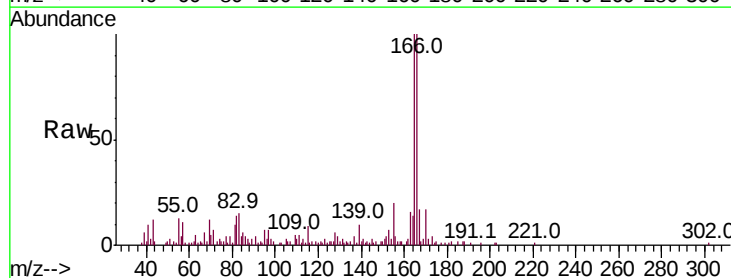
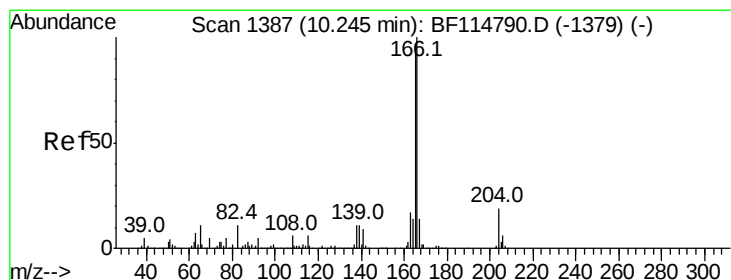


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

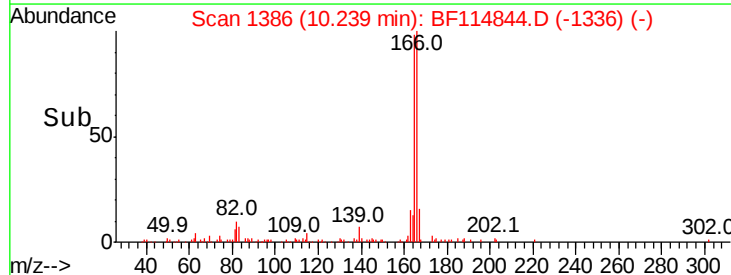
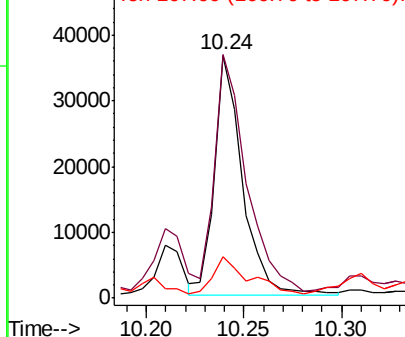


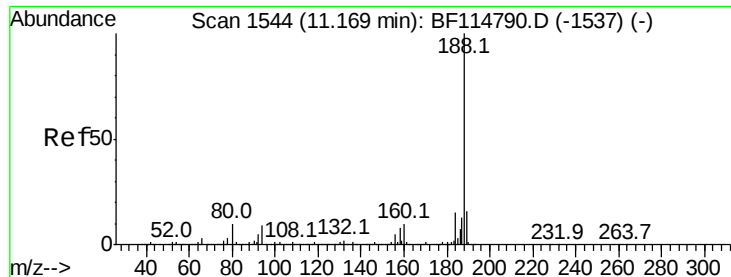
#58
Fluorene
Concen: Below Cal
RT: 10.24 min Scan# 1386
Delta R.T. -0.01 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion:166 Resp: 36430
Ion Ratio Lower Upper
166 100
165 100.3 77.9 116.9
167 17.2 11.3 16.9#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.17 min Scan# 1545

Delta R.T. 0.01 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampleId :

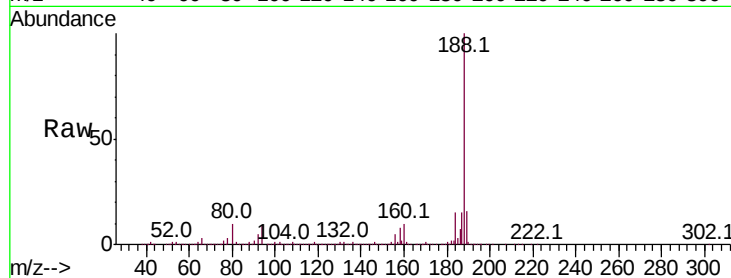
Tot Ion:188 Resp: 1167245

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.6	11.4
80	9.6	8.3	12.5

188 100

94 9.4 7.6 11.4

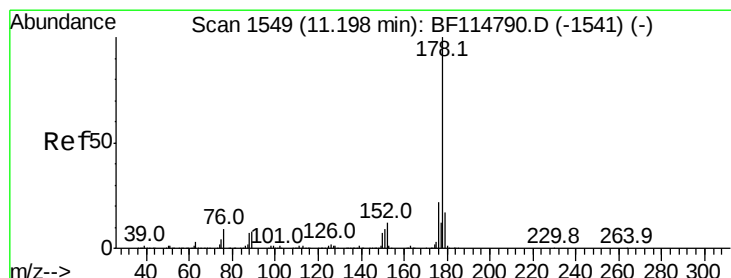
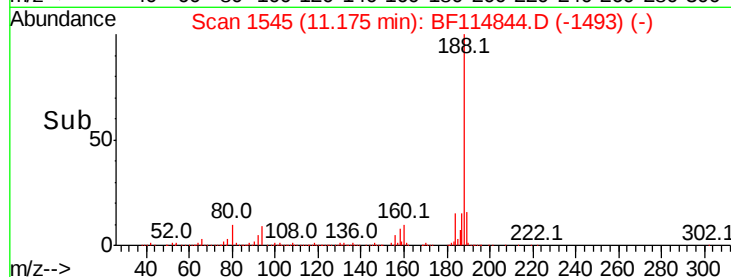
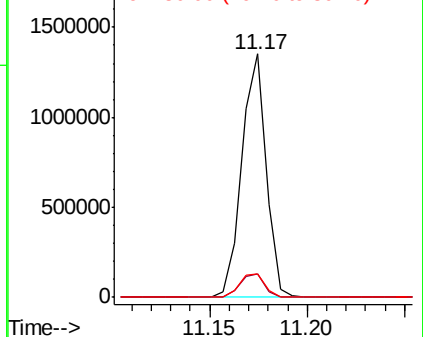
80 9.6 8.3 12.5



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



#71

Phenanthrene

Concen: 10.688 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

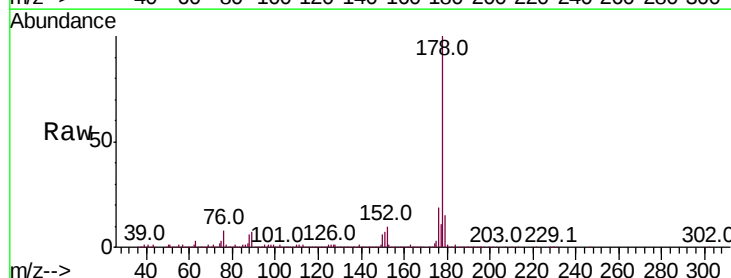
Tgt Ion:178 Resp: 595574

Ion	Ratio	Lower	Upper
178	100		
176	19.1	17.7	26.5
179	15.5	13.7	20.5

178 100

176 19.1 17.7 26.5

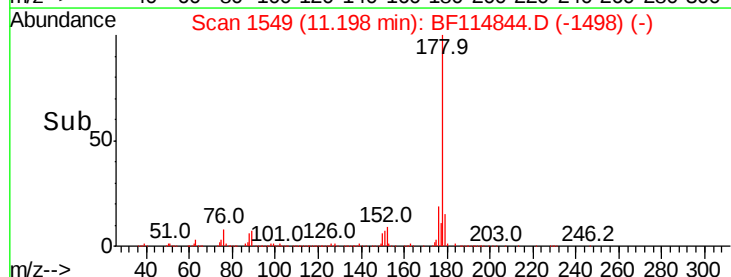
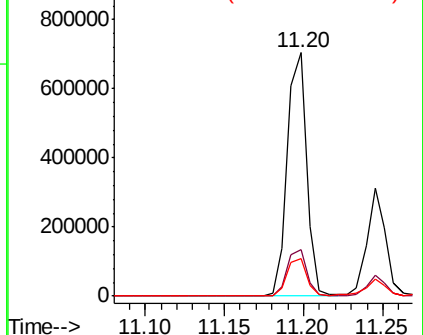
179 15.5 13.7 20.5

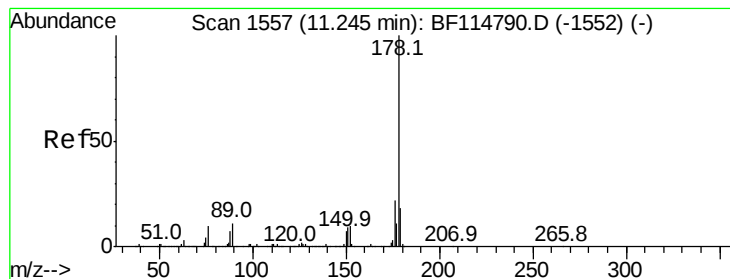


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 4.279 ng

RT: 11.25 min Scan# 1557

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampleId :

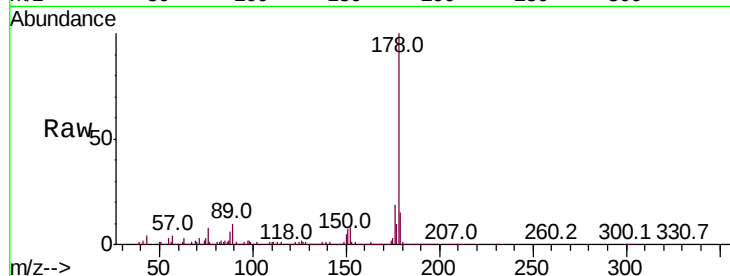
Tot Ion:178 Resp: 250955

Ion Ratio Lower Upper

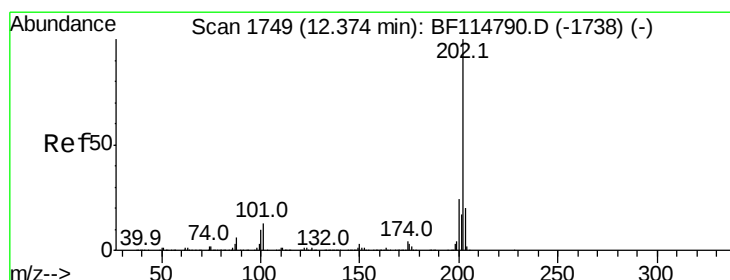
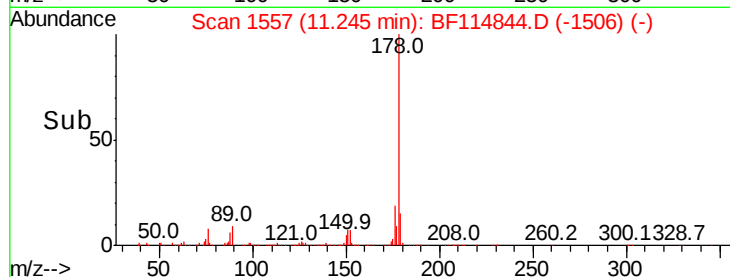
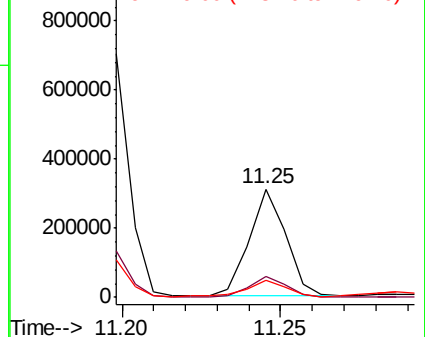
178 100

176 19.1 17.4 26.0

179 15.5 14.2 21.4



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: 29.521 ng

RT: 12.38 min Scan# 1750

Delta R.T. 0.01 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

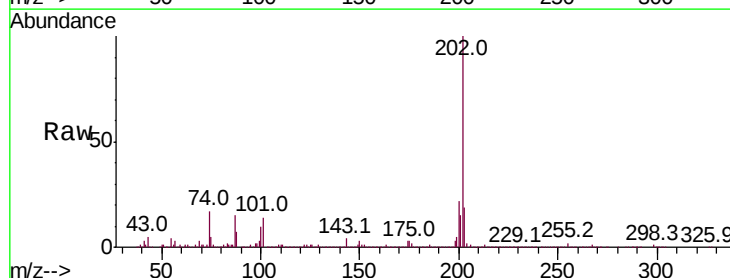
Tgt Ion:202 Resp: 1712105

Ion Ratio Lower Upper

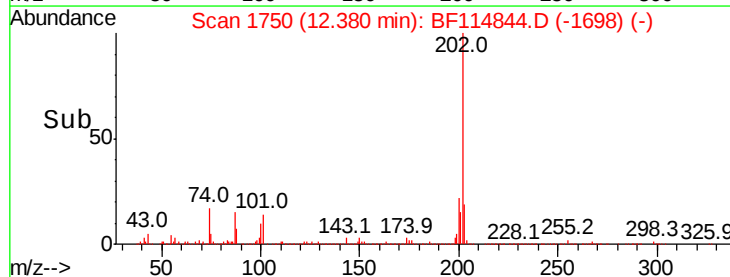
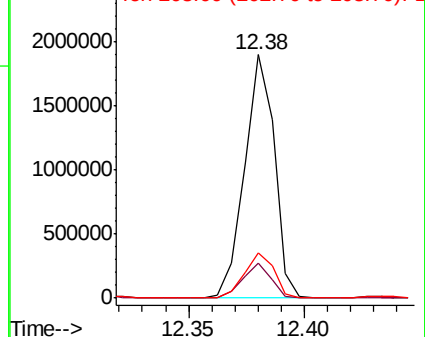
202 100

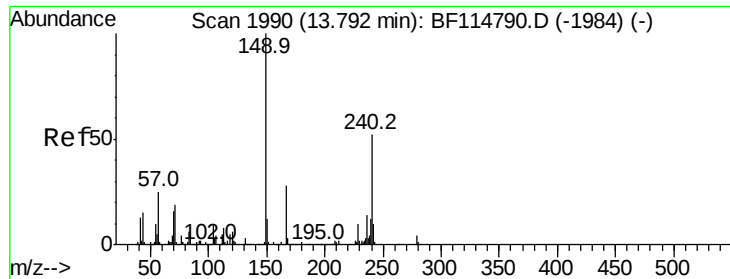
101 14.3 0.0 32.8

203 18.8 0.2 40.2



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

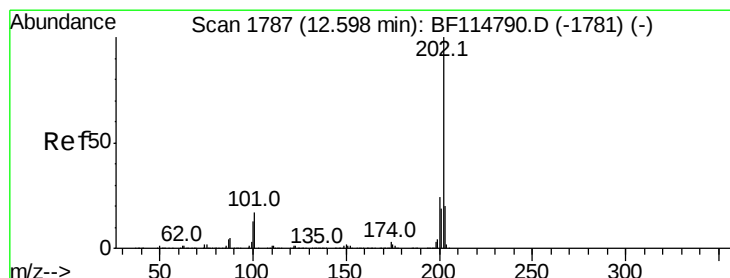
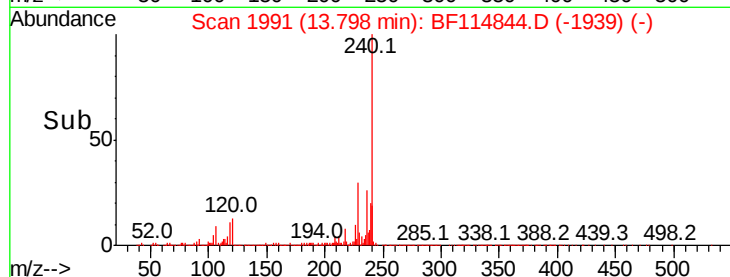
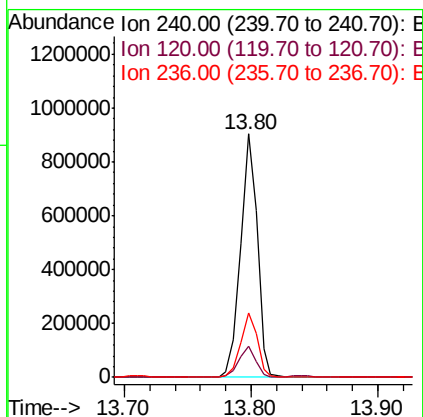
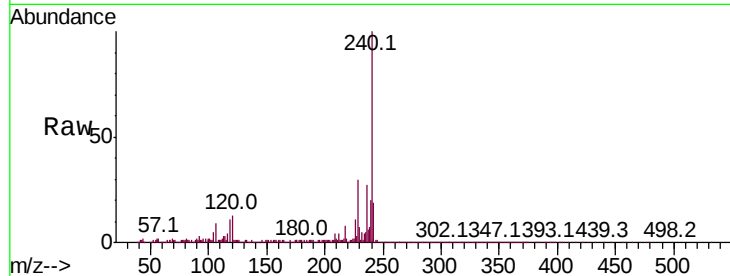




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.80 min Scan# 1991
Delta R.T. 0.01 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

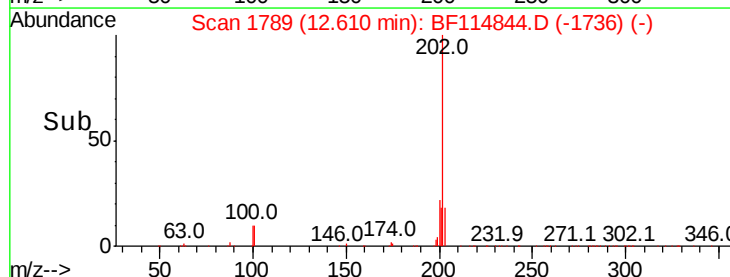
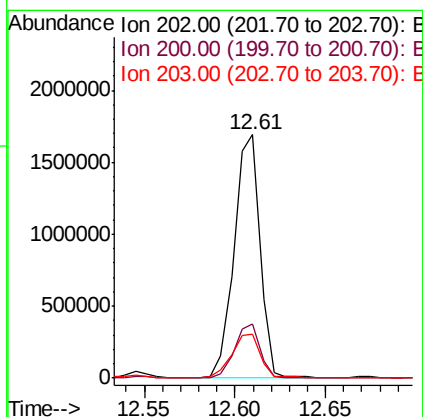
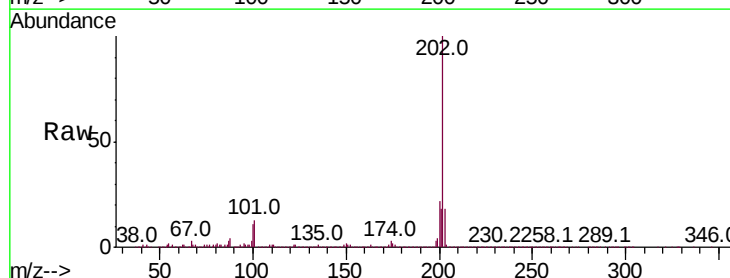
Instrument :
BNA_F
ClientSampleId :

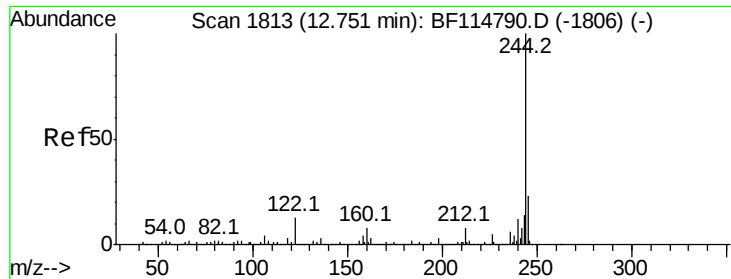
Tot Ion:240 Resp: 812469
Ion Ratio Lower Upper
240 100
120 13.0 9.0 13.4
236 26.7 21.4 32.0



#78
Pyrene
Concen: 23.758 ng
RT: 12.61 min Scan# 1789
Delta R.T. 0.01 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion:202 Resp: 1674521
Ion Ratio Lower Upper
202 100
200 22.2 19.2 28.8
203 18.2 15.9 23.9



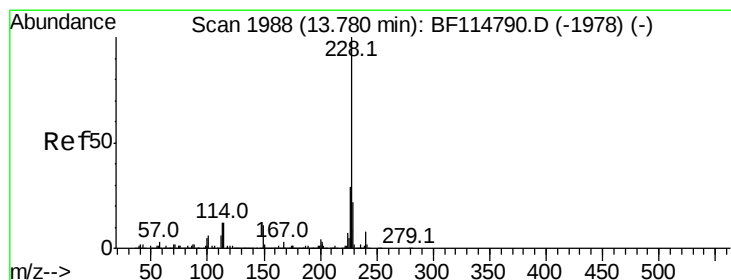
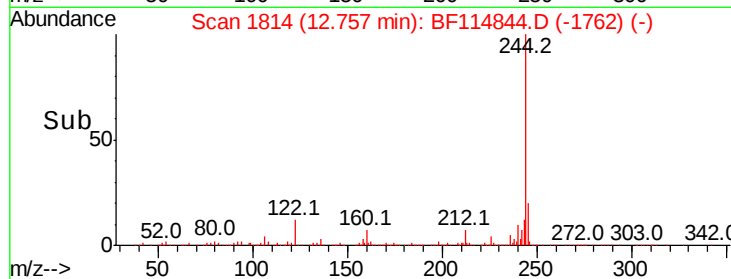
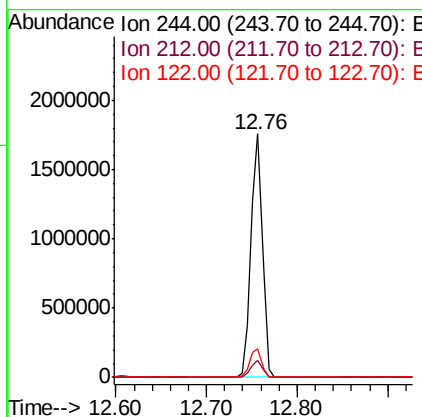
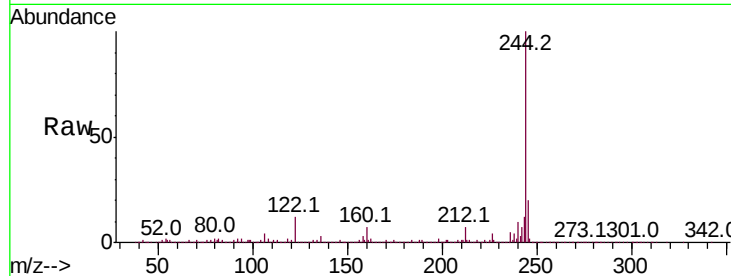


#79
 Terphenyl-d14
 Concen: 36.164 ng
 RT: 12.76 min Scan# 1814
 Delta R.T. 0.01 min
 Lab File: BF114844.D
 Acq: 6 Jun 2019 3:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 1510857

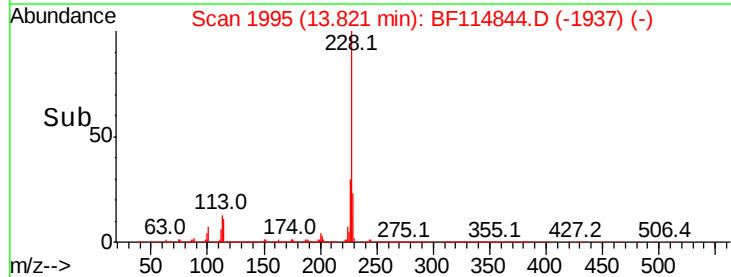
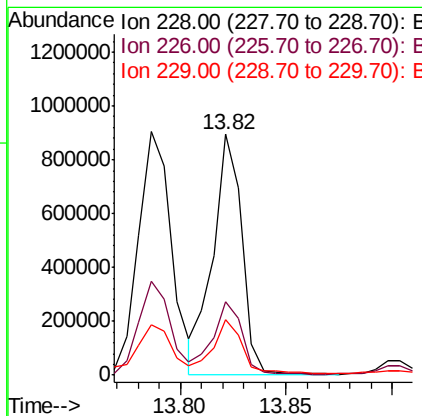
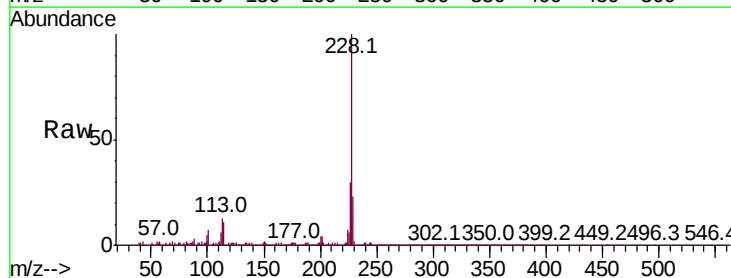
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.5	9.7
122	11.8	10.5	15.7

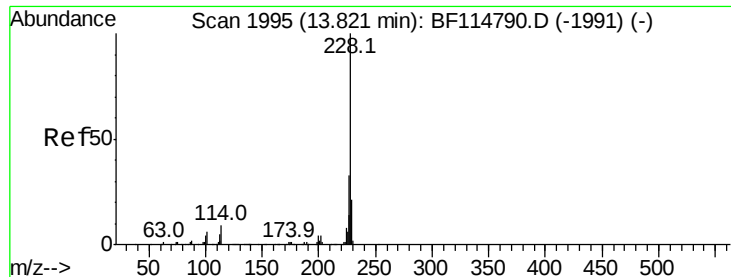


#81
 Benzo(a)anthracene
 Concen: 13.500 ng
 RT: 13.82 min Scan# 1995
 Delta R.T. 0.04 min
 Lab File: BF114844.D
 Acq: 6 Jun 2019 3:03

Tgt Ion:228 Resp: 845223

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.4	35.2
229	23.0	17.4	26.0





#83

Chrysene

Concen: 13.878 ng

RT: 13.82 min Scan# 1995

Delta R.T. 0.00 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampleId :

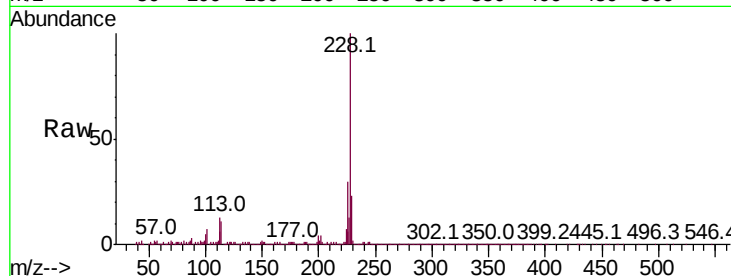
Tot Ion:228 Resp: 845223

Ion Ratio Lower Upper

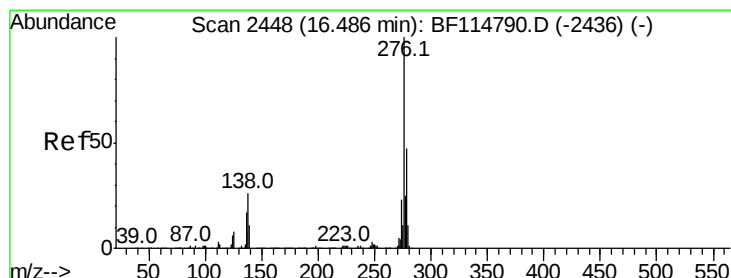
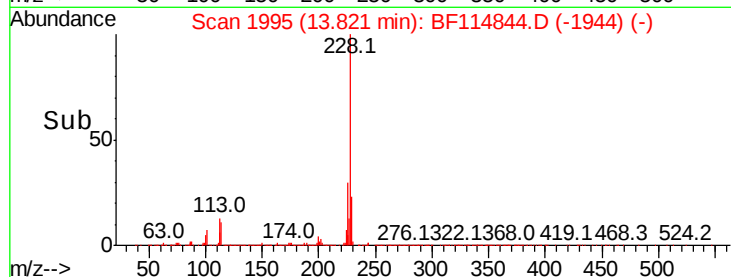
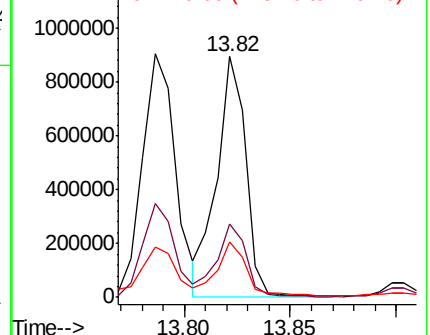
228 100

226 30.5 26.0 39.0

229 23.0 17.1 25.7



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: 4.006 ng

RT: 16.49 min Scan# 2448

Delta R.T. 0.01 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

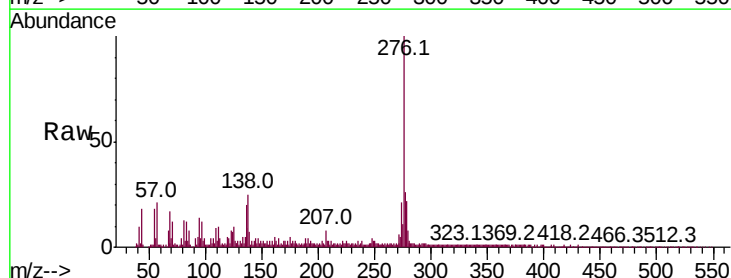
Tgt Ion:276 Resp: 278363

Ion Ratio Lower Upper

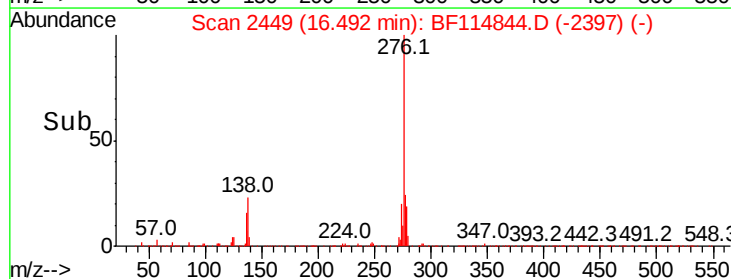
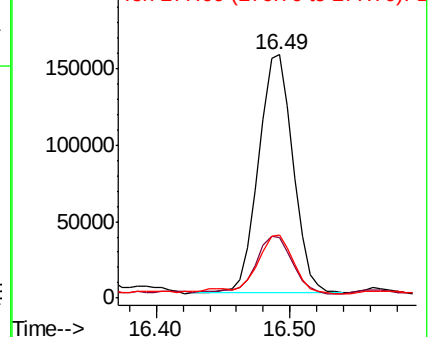
276 100

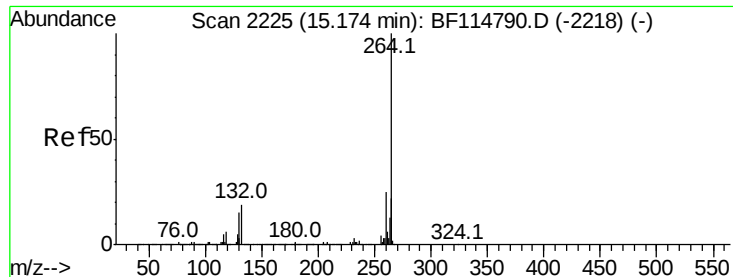
138 25.6 22.2 33.4

277 27.1 20.6 30.8



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

Pervlene-d12

Concen: 20.000 ng

RT: 15.18 min Scan# 2226

Delta R.T. 0.01 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

Instrument :

BNA_F

ClientSampleId :

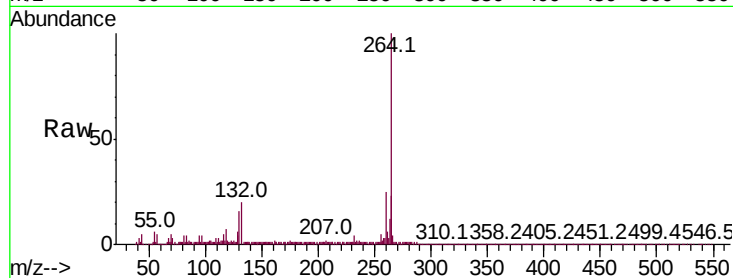
Tot Ion:264 Resp: 647633

Ion Ratio Lower Upper

264 100

260 24.5 20.1 30.1

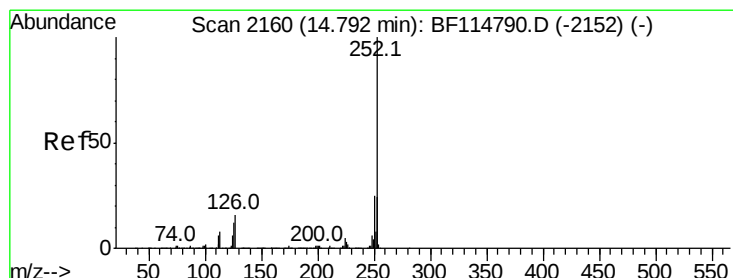
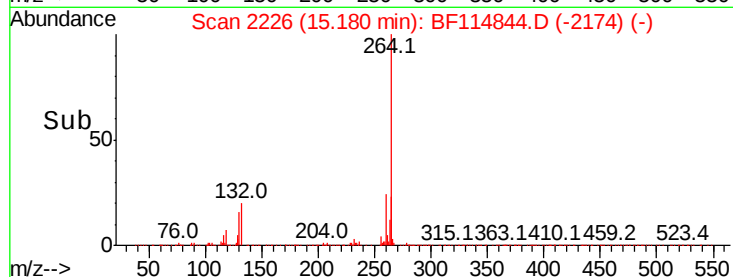
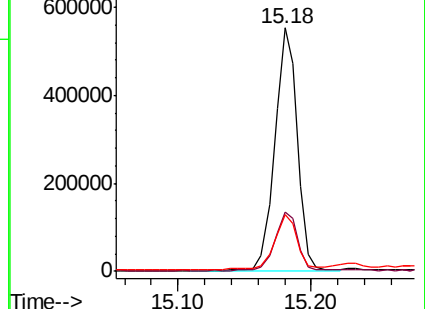
265 23.1 17.7 26.5



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: 24.847 ng

RT: 14.80 min Scan# 2161

Delta R.T. 0.01 min

Lab File: BF114844.D

Acq: 6 Jun 2019 3:03

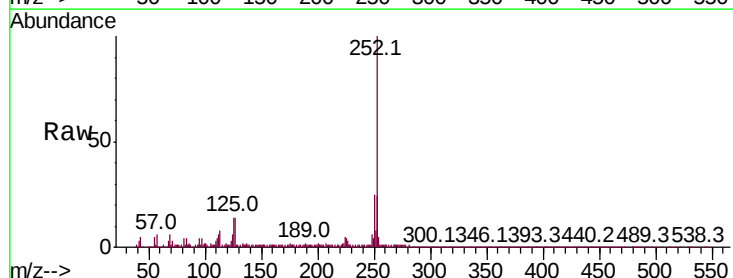
Tgt Ion:252 Resp: 1024410

Ion Ratio Lower Upper

252 100

253 23.8 19.0 28.6

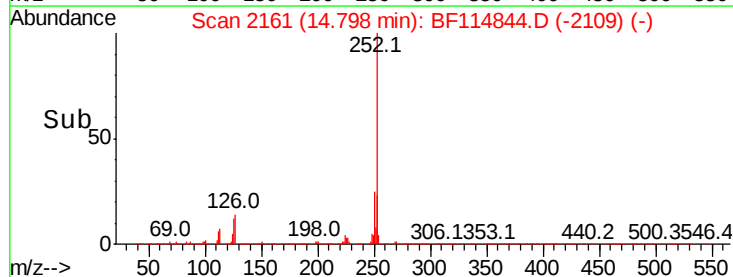
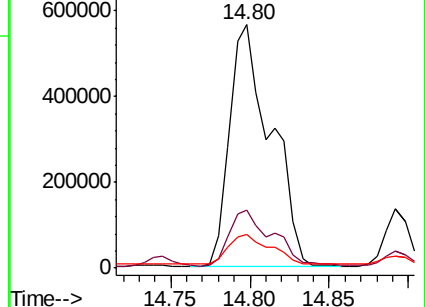
125 13.9 9.4 14.0

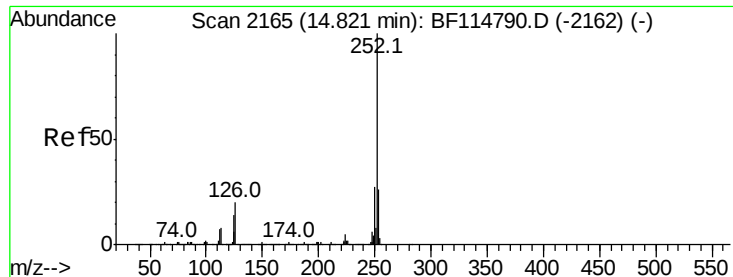


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

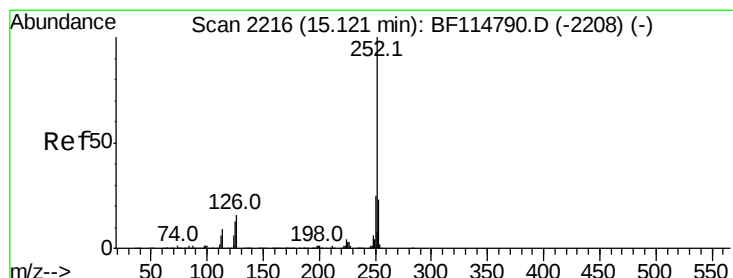
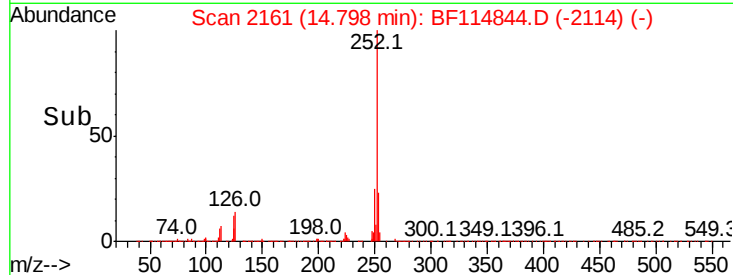
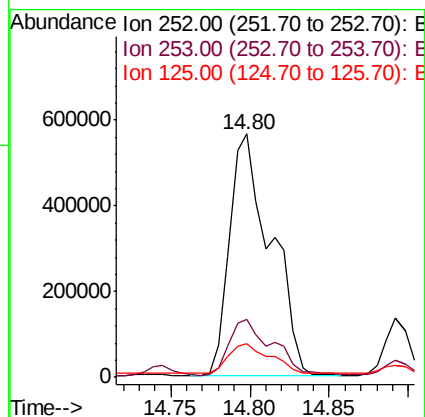
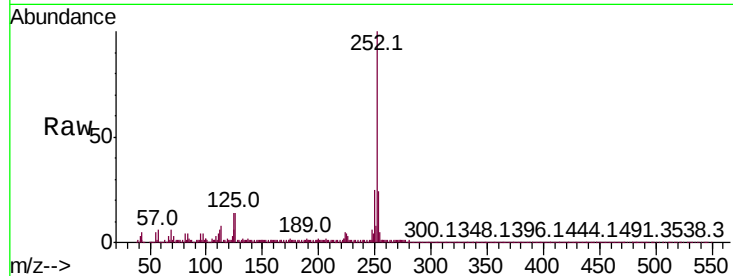




#89
Benzo(k)fluoranthene
Concen: 29.258 ng
RT: 14.80 min Scan# 2161
Delta R.T. -0.02 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

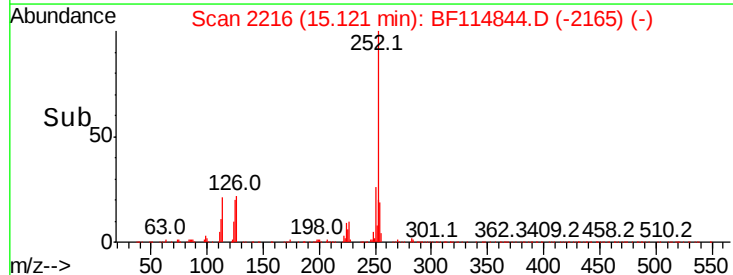
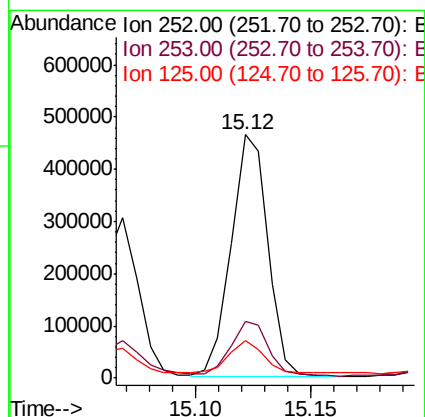
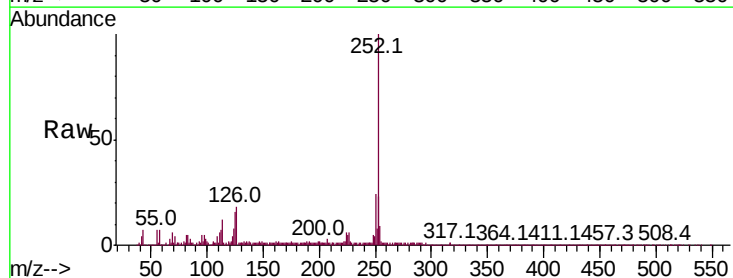
Instrument :
BNA_F
ClientSampleId :

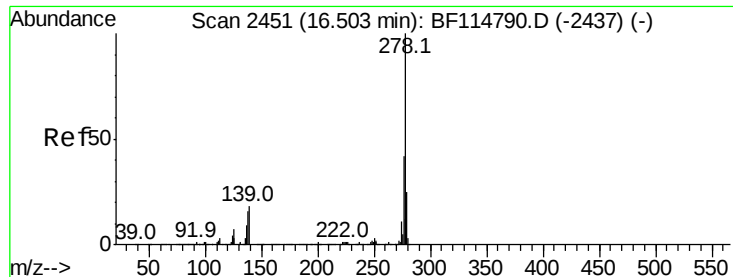
Tot Ion:252 Resp: 1024410
Ion Ratio Lower Upper
252 100
253 23.8 19.3 28.9
125 13.9 10.1 15.1



#90
Benzo(a)pyrene
Concen: 14.335 ng
RT: 15.12 min Scan# 2216
Delta R.T. 0.00 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion:252 Resp: 511543
Ion Ratio Lower Upper
252 100
253 23.2 18.5 27.7
125 15.6 10.1 15.1#

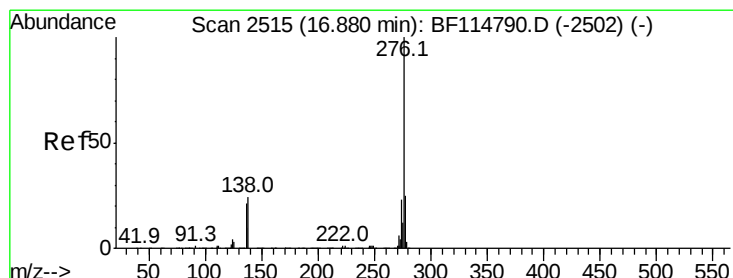
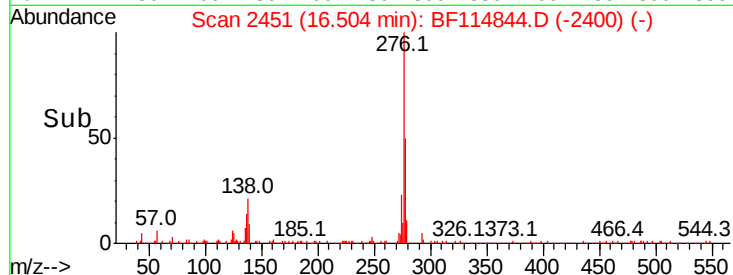
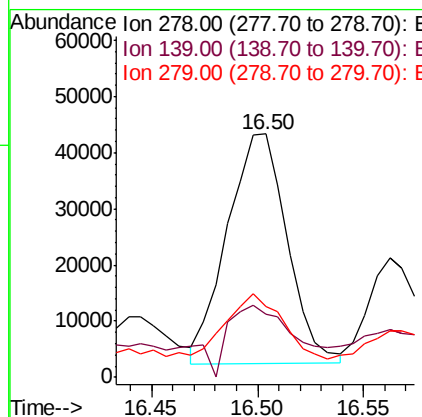
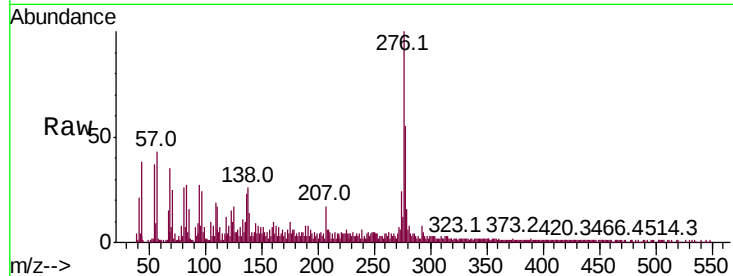




#91
Dibenzo(a,h)anthracene
Concen: 2.382 ng
RT: 16.50 min Scan# 2451
Delta R.T. 0.00 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Instrument :
BNA_F
ClientSampled :

Tot Ion:278 Resp: 80487
Ion Ratio Lower Upper
278 100
139 25.8 14.6 22.0#
279 29.3 20.1 30.1



#92
Benzo(g,h,i)perylene
Concen: 7.096 ng
RT: 16.88 min Scan# 2515
Delta R.T. 0.00 min
Lab File: BF114844.D
Acq: 6 Jun 2019 3:03

Tgt Ion:276 Resp: 241171
Ion Ratio Lower Upper
276 100
277 25.8 19.8 29.6
138 25.9 19.4 29.2

