

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114682.D
 Acq On : 31 May 2019 1:13
 Operator : HP/JU
 Sample : K3002-02 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 31 05:48:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 19:08:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	414303	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	1403188	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	666370	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1149992	20.00	ng	0.00
76) Chrysene-d12	13.82	240	737407	20.00	ng	0.00
87) Perylene-d12	15.22	264	617532	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1431369	60.66	ng	0.00
7) Phenol-d6	6.33	99	1768184	62.18	ng	0.00
23) Nitrobenzene-d5	7.26	82	1037823	46.14	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	327989	51.66	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	1852863	44.63	ng	0.00
79) Terphenyl-d14	12.78	244	1691976	43.14	ng	0.00

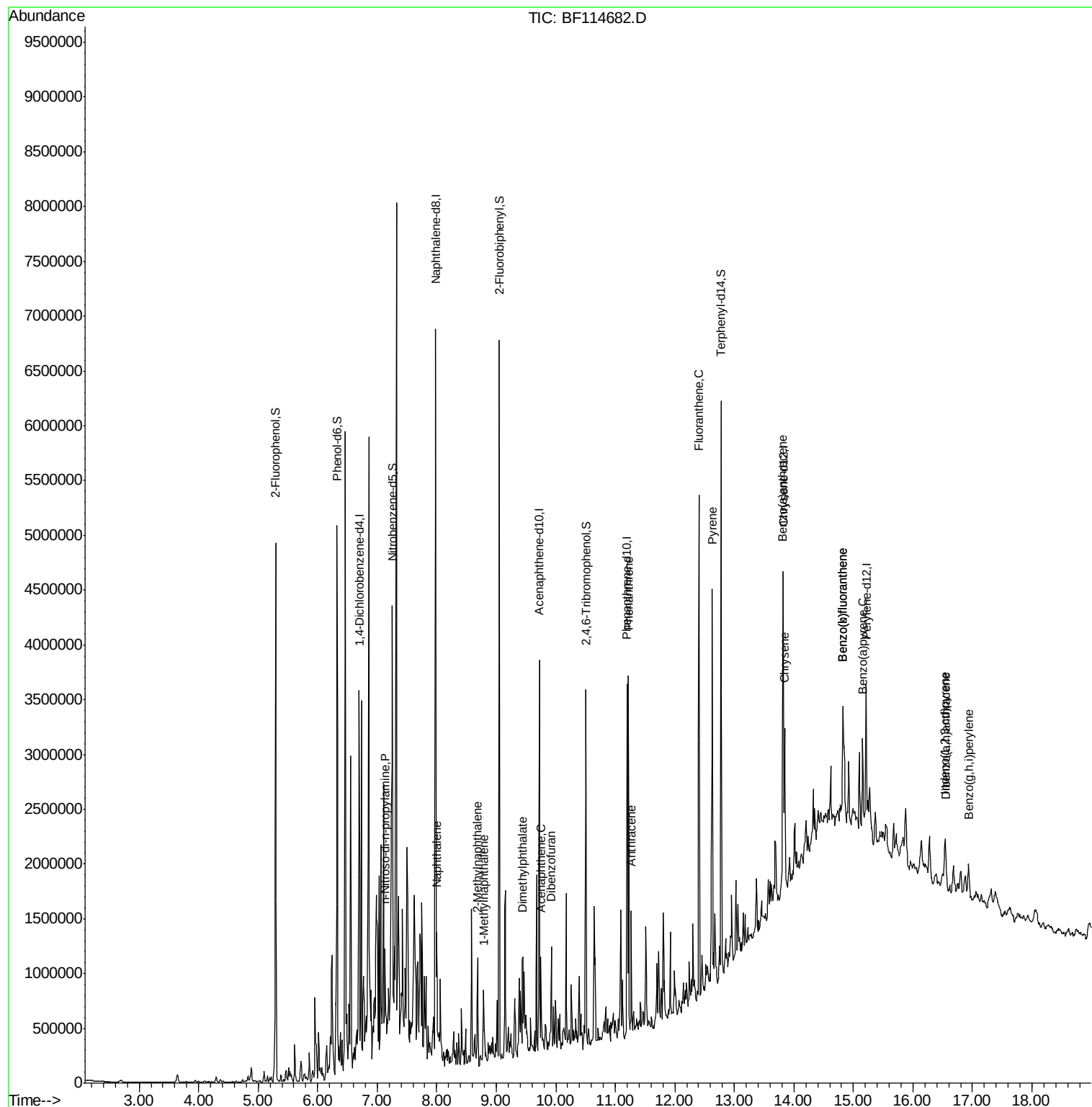
Target Compounds				Qvalue		
9) Benzaldehyde	6.23	77	12047	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.14	70	48582	2.475 ng	#	59
31) Naphthalene	8.00	128	391981	6.065 ng		96
37) 2-Methylnaphthalene	8.69	142	208064	4.845 ng		98
38) 1-Methylnaphthalene	8.79	142	157536	3.872 ng		100
50) Dimethylphthalate	9.45	163	298113	6.420 ng	#	97
52) Acenaphthene	9.76	154	180758	4.702 ng		98
55) Dibenzofuran	9.93	168	245566	4.487 ng		92
58) Fluorene	10.26	166	126003	Below Cal	#	95
61) 4-Chlorophenyl-phenylether	10.28	204	1117	Below Cal	#	1
69) Atrazine	10.93	200	1122	Below Cal	#	52
71) Phenanthrene	11.22	178	1085669	18.507 ng		97
72) Anthracene	11.27	178	391067	6.587 ng		97
74) Di-n-butylphthalate	11.77	149	9563	Below Cal	#	56
75) Fluoranthene	12.40	202	1765872	29.071 ng		99
78) Pyrene	12.63	202	1619839	25.968 ng		98
81) Benzo(a)anthracene	13.81	228	648812	11.450 ng		98
83) Chrysene	13.84	228	587138	10.845 ng		95
86) Indeno(1,2,3-cd)pyrene	16.54	276	242318	4.469 ng		95
88) Benzo(b)fluoranthene	14.82	252	789192	20.291 ng	#	95
89) Benzo(k)fluoranthene	14.82	252	789192	23.345 ng	#	95
90) Benzo(a)pyrene	15.16	252	404234	11.831 ng	#	94
91) Dibenzo(a,h)anthracene	16.55	278	66646	2.207 ng	#	67
92) Benzo(g,h,i)perylene	16.94	276	230584	7.869 ng		96

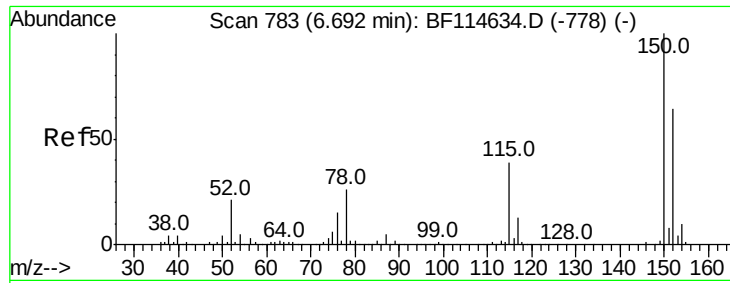
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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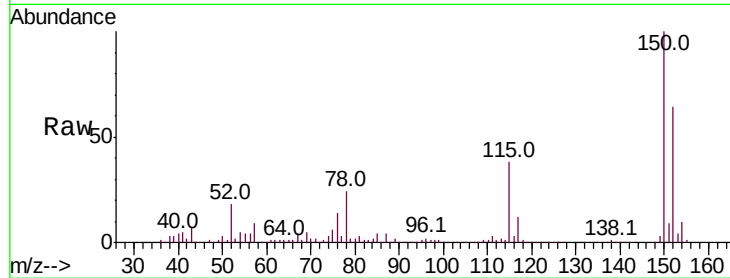


#1

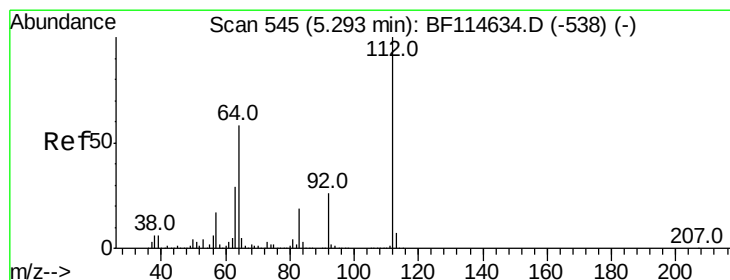
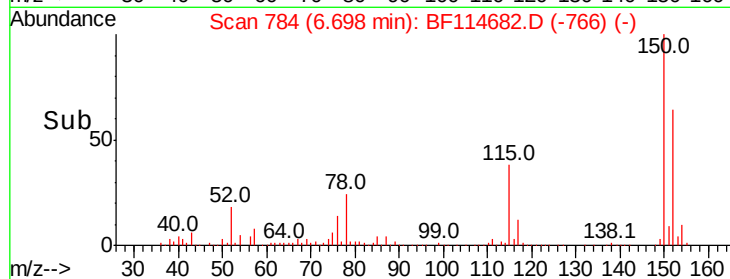
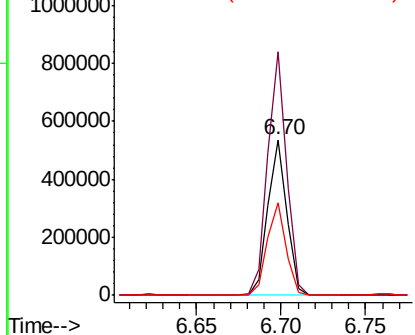
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 414303
Ion Ratio Lower Upper
152 100
150 156.7 124.4 186.6
115 59.5 48.7 73.1



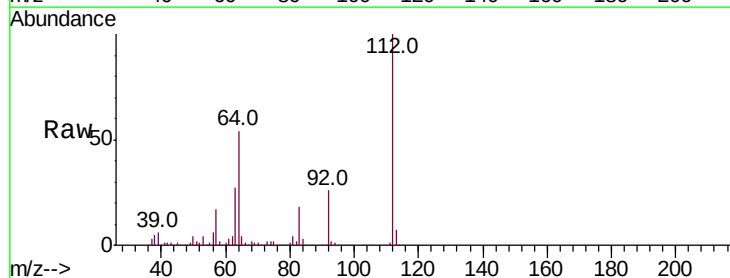
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



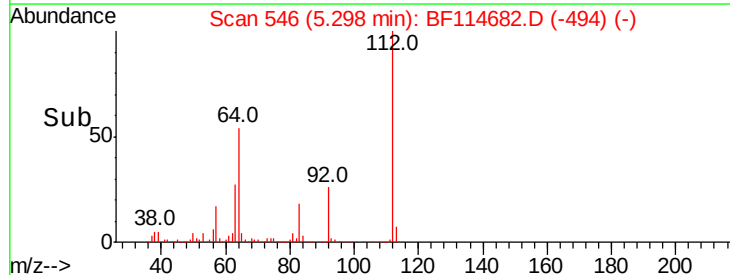
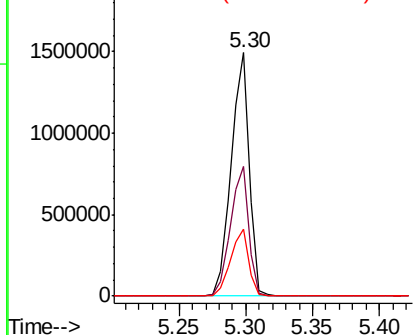
#5

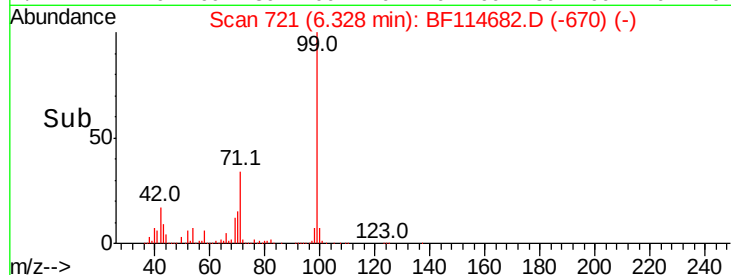
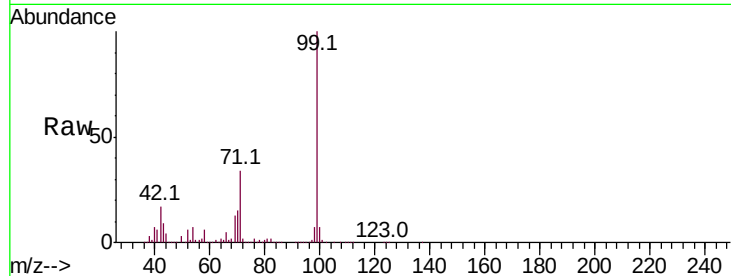
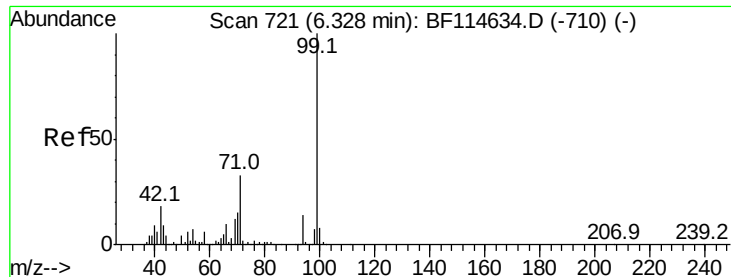
2-Fluorophenol
Concen: 60.658 ng
RT: 5.30 min Scan# 546
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion:112 Resp: 1431369
Ion Ratio Lower Upper
112 100
64 53.5 46.1 69.1
63 27.4 23.4 35.2



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: 62.182 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampled :

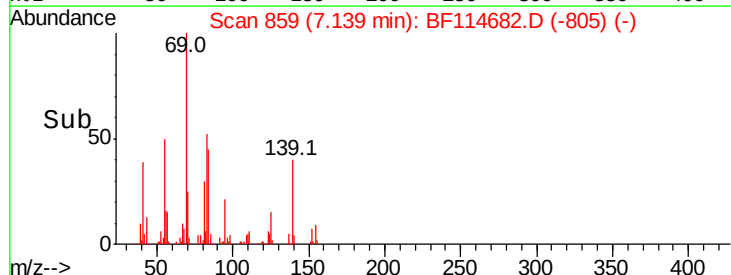
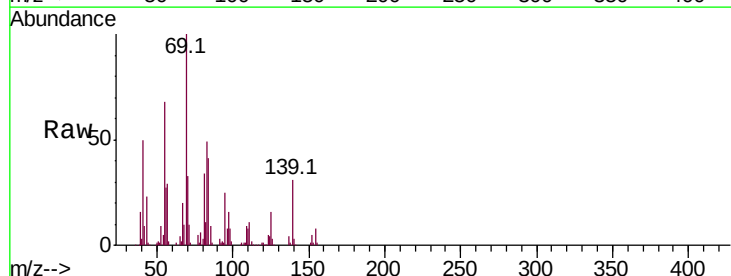
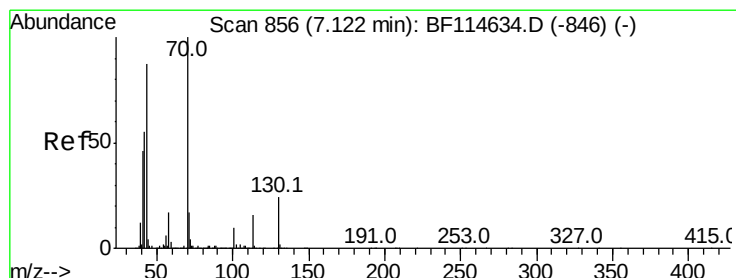
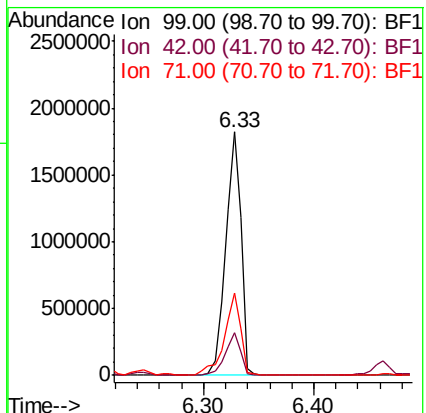
Tot Ion: 99 Resp: 1768184

Ion Ratio Lower Upper

99 100

42 17.4 14.7 22.1

71 33.9 26.6 40.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.475 ng

RT: 7.14 min Scan# 859

Delta R.T. 0.02 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Tgt Ion: 70 Resp: 48582

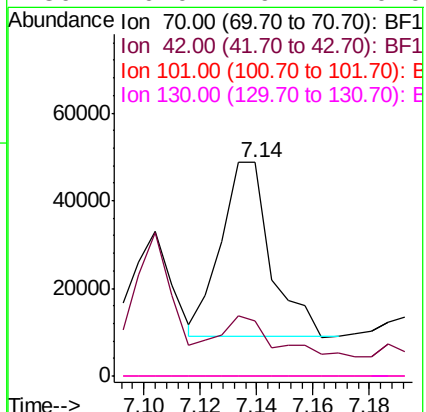
Ion Ratio Lower Upper

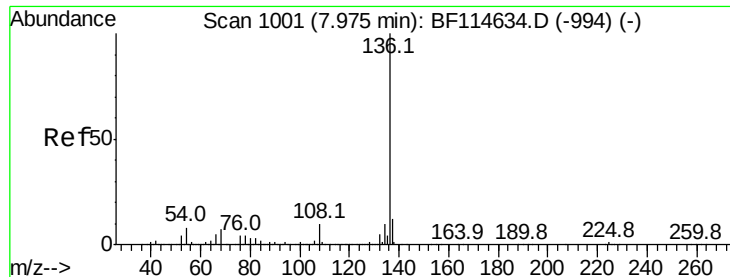
70 100

42 25.8 44.4 66.6#

101 0.0 8.2 12.4#

130 0.0 19.4 29.0#

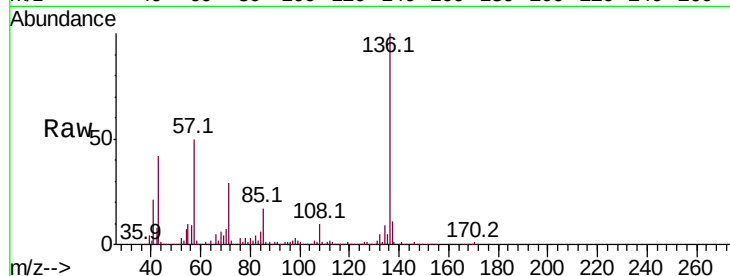




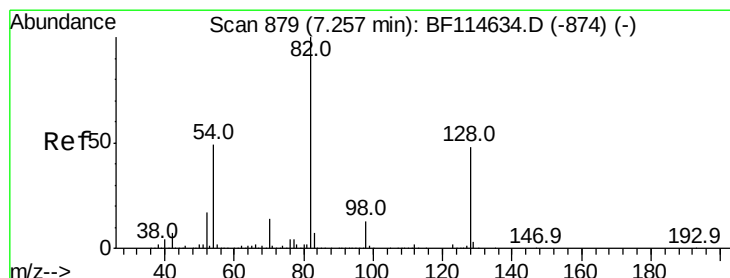
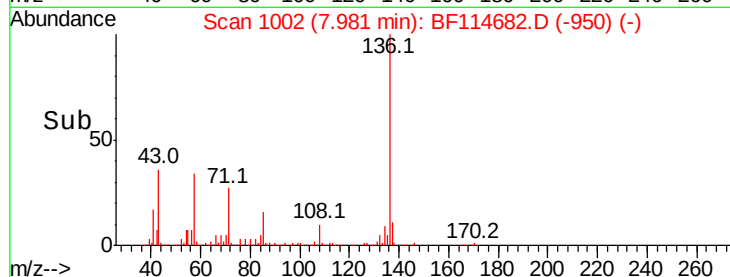
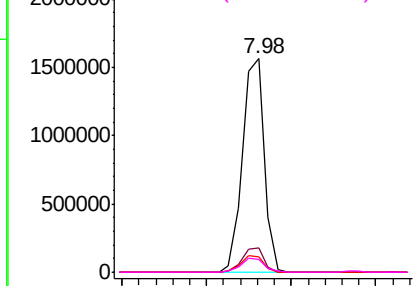
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.98 min Scan# 1002
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:136 Resp: 1403188
Ion Ratio Lower Upper
136 100
137 11.4 9.3 13.9
54 7.2 6.3 9.5
68 5.9 5.4 8.0

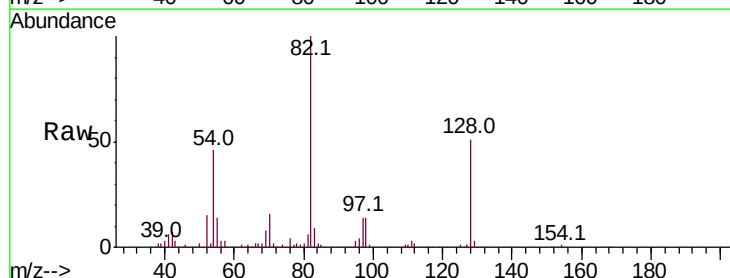


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

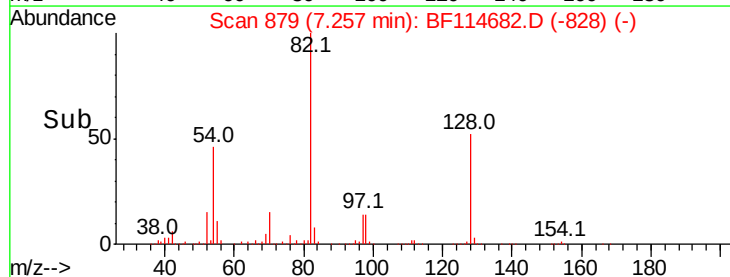
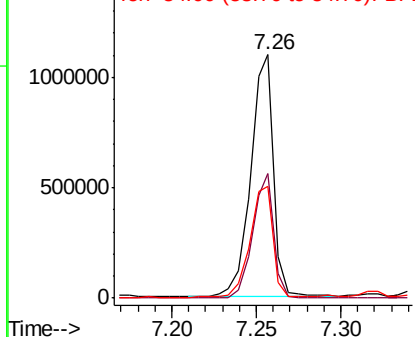


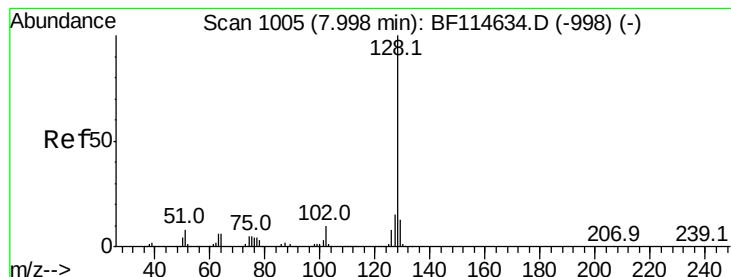
#23
Nitrobenzene-d5
Concen: 46.144 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion: 82 Resp: 1037823
Ion Ratio Lower Upper
82 100
128 51.2 38.5 57.7
54 45.8 39.1 58.7



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





#31

Naphthalene

Concen: 6.065 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

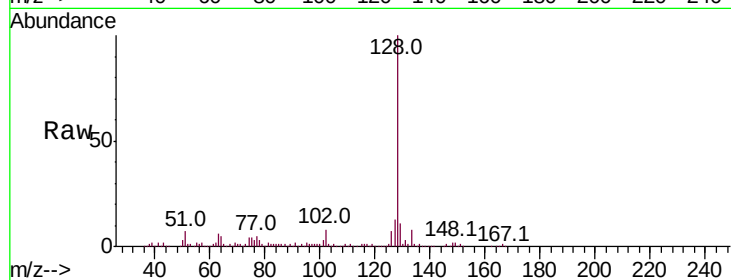
Tot Ion:128 Resp: 391981

Ion Ratio Lower Upper

128 100

129 11.3 10.2 15.2

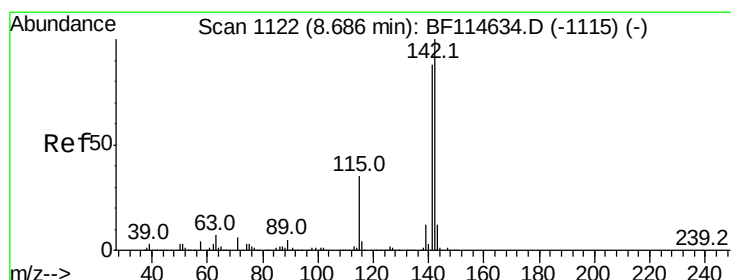
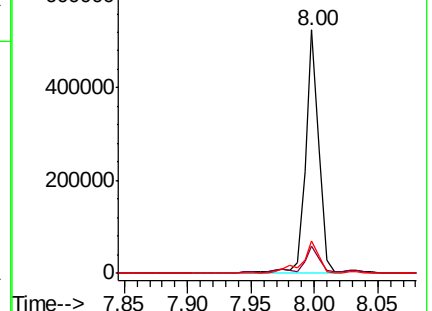
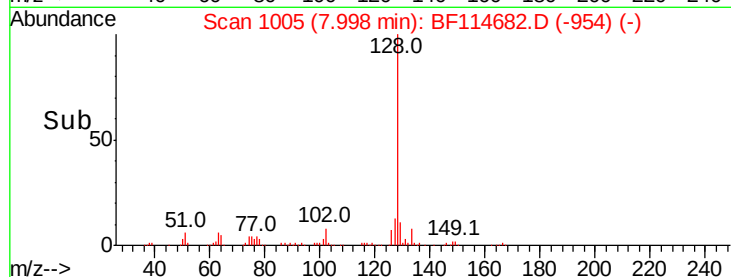
127 13.1 11.9 17.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 4.845 ng

RT: 8.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

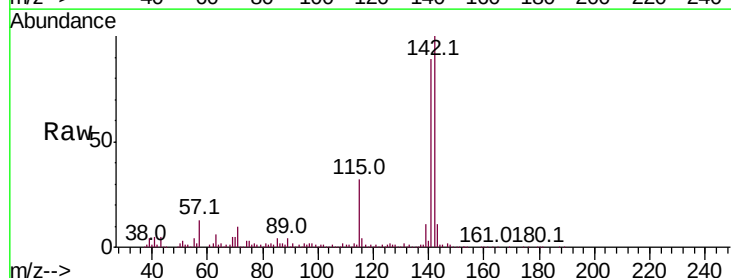
Tgt Ion:142 Resp: 208064

Ion Ratio Lower Upper

142 100

141 88.8 70.3 105.5

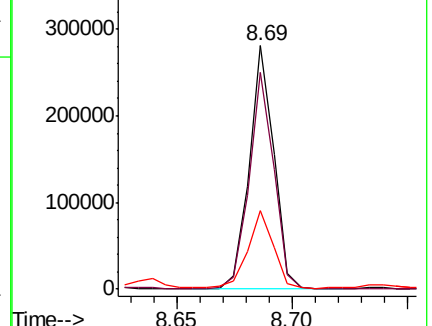
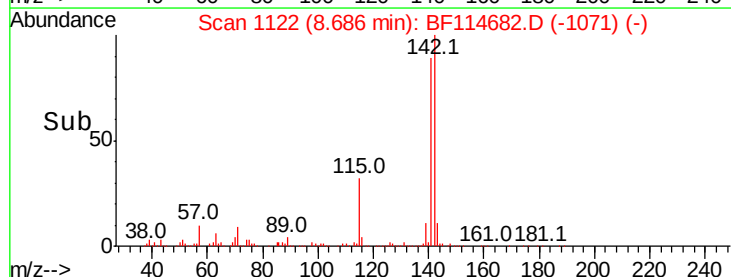
115 32.1 28.0 42.0

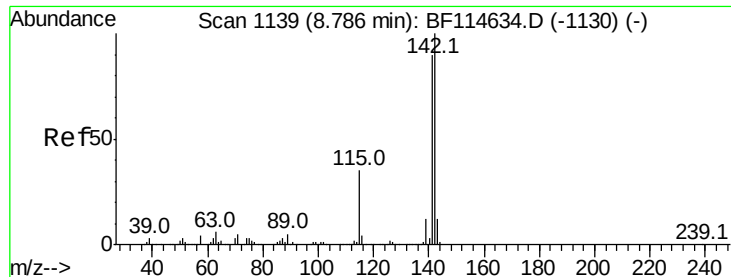


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

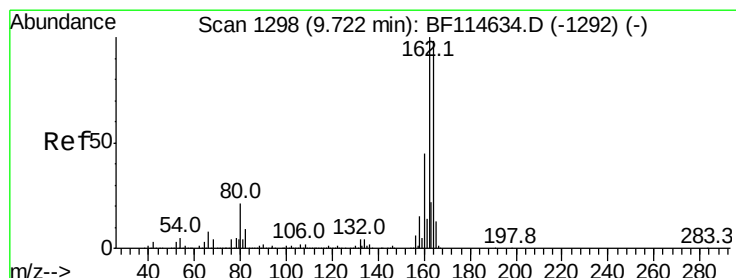
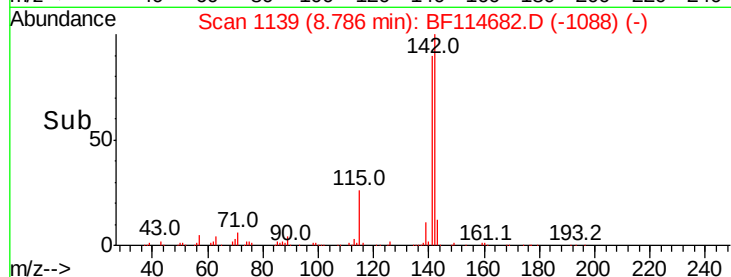
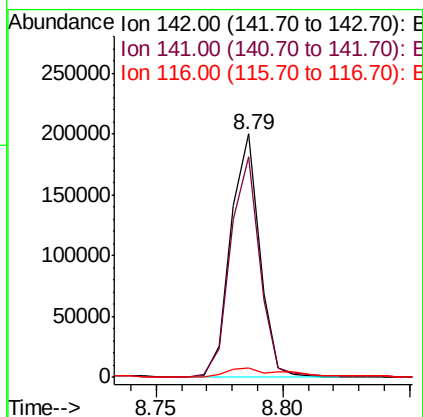
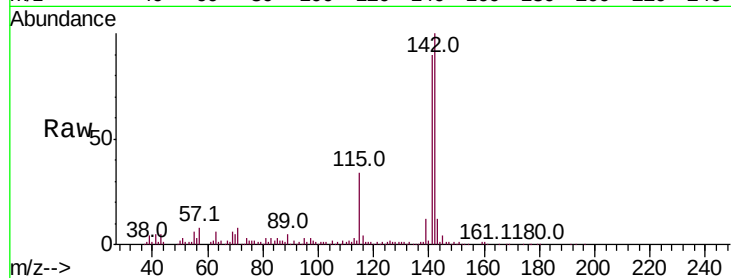




#38
1-Methylnaphthalene
Concen: 3.872 ng
RT: 8.79 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

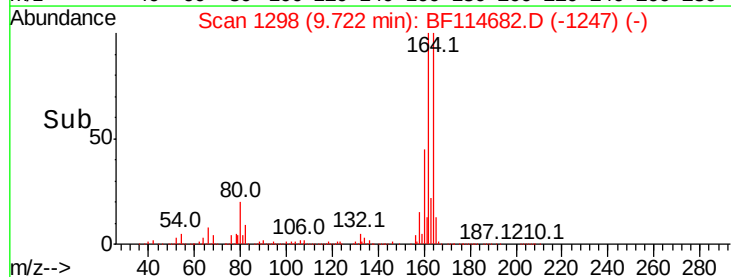
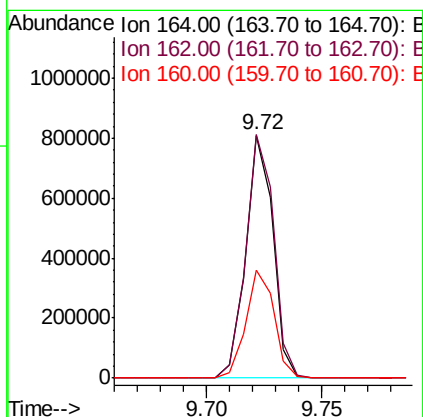
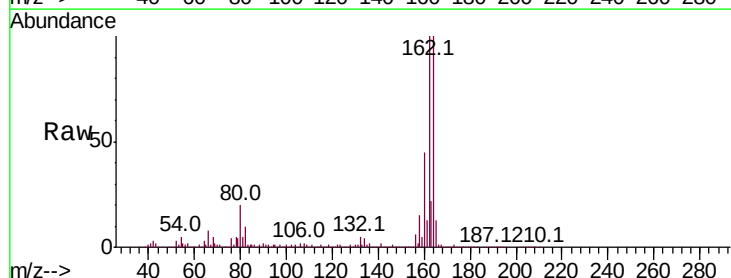
Instrument :
BNA_F
ClientSampled :

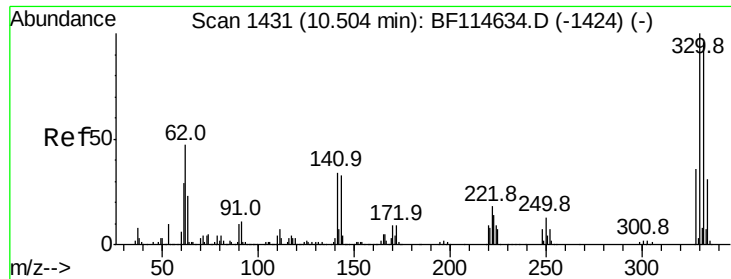
Tot Ion:142 Resp: 157536
Ion Ratio Lower Upper
142 100
141 90.4 72.3 108.5
116 3.8 3.0 4.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion:164 Resp: 666370
Ion Ratio Lower Upper
164 100
162 100.4 81.4 122.2
160 44.7 36.6 54.8

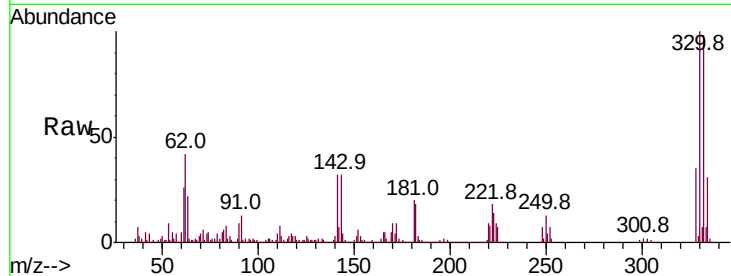




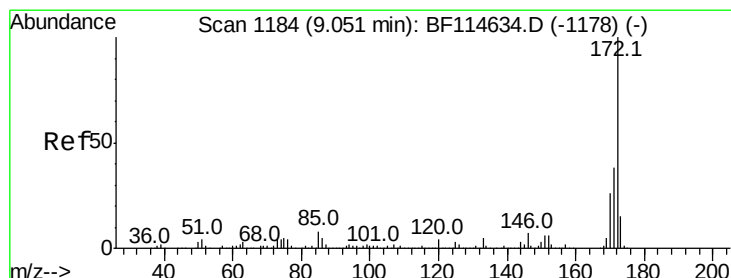
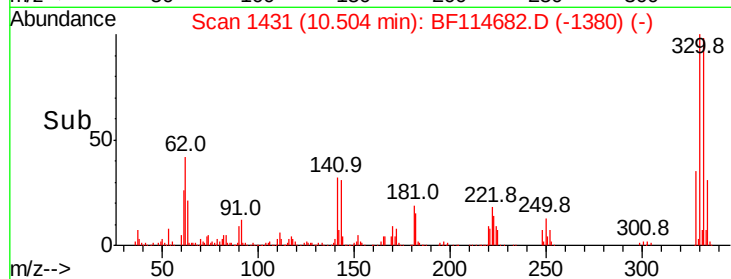
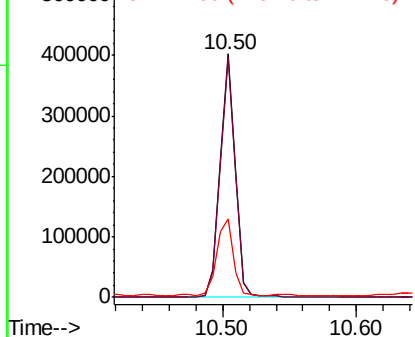
#42
 2,4,6-Tribromophenol
 Concen: 51.656 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.00 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	75.8	113.8
141	34.6	27.8	41.8

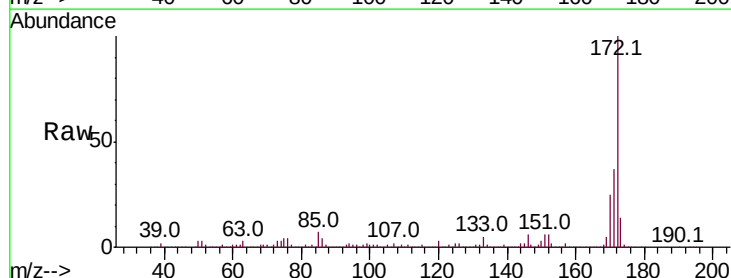


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

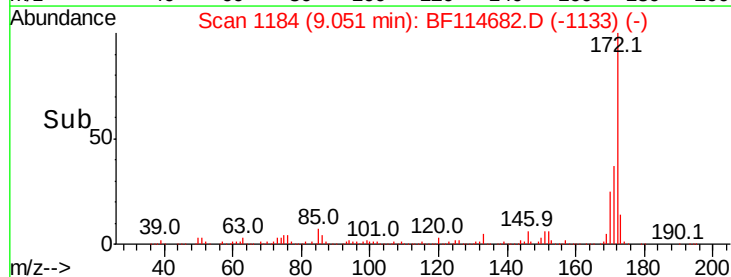
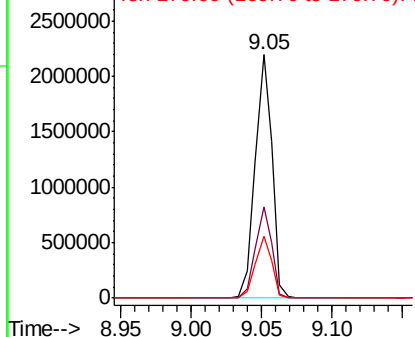


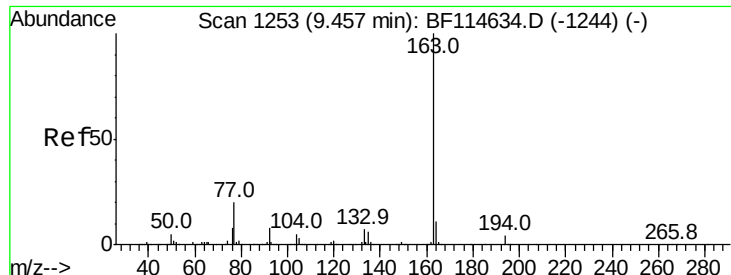
#45
 2-Fluorobiphenyl
 Concen: 44.632 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.5	30.6	45.8
170	25.4	20.7	31.1



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

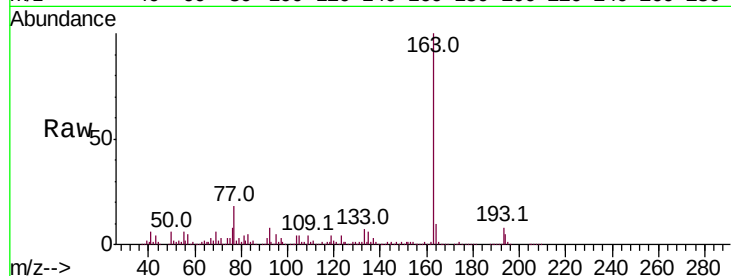




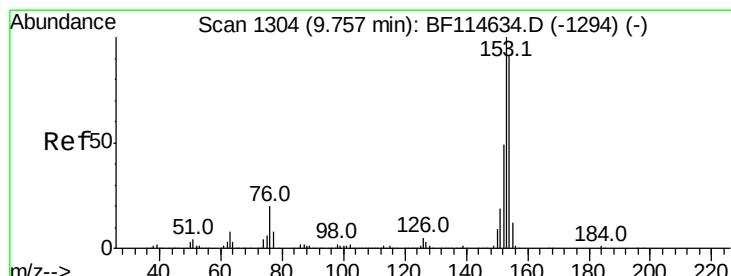
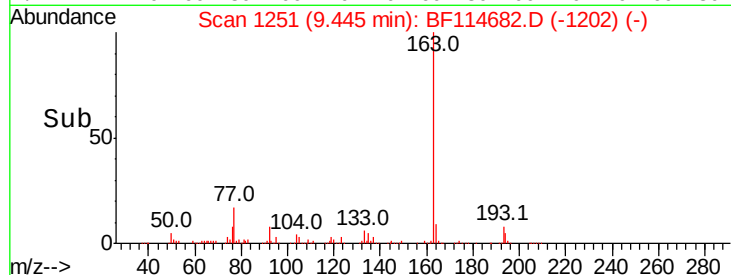
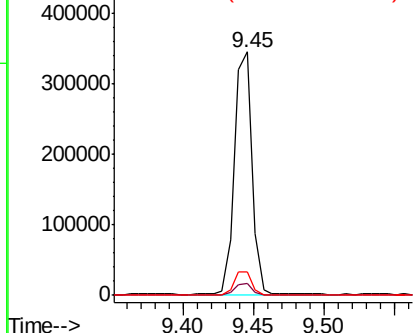
#50
Dimethylphthalate
Concen: 6.420 ng
RT: 9.45 min Scan# 1251
Delta R.T. -0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 298113
Ion Ratio Lower Upper
163 100
194 5.1 3.4 5.0#
164 9.6 8.6 13.0

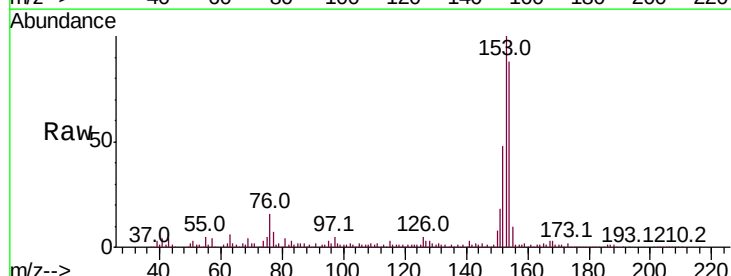


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

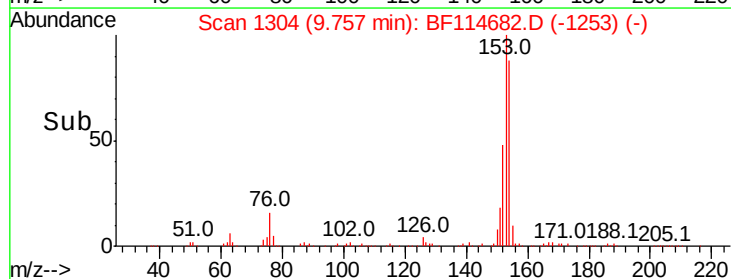
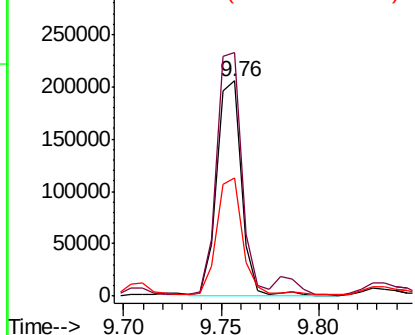


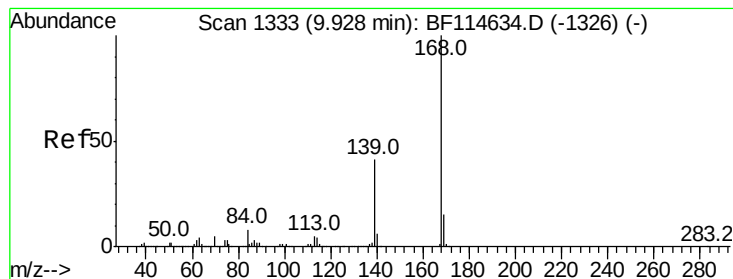
#52
Acenaphthene
Concen: 4.702 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion:154 Resp: 180758
Ion Ratio Lower Upper
154 100
153 113.2 88.4 132.6
152 54.9 43.4 65.0



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





#55

Dibenzenofuran

Concen: 4.487 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

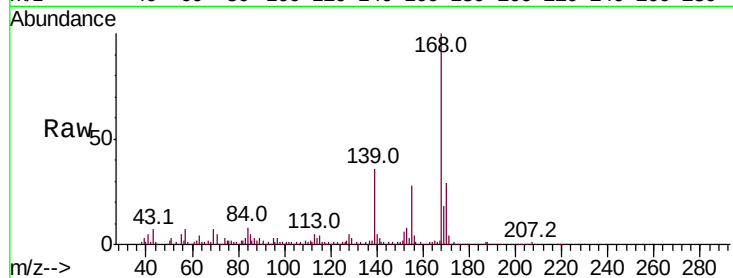
Tot Ion:168 Resp: 245566

Ion Ratio Lower Upper

168 100

139 35.5 32.6 48.8

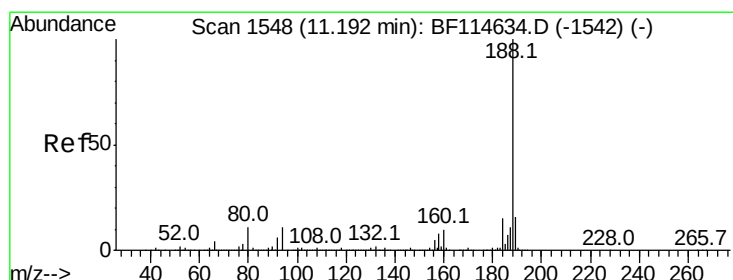
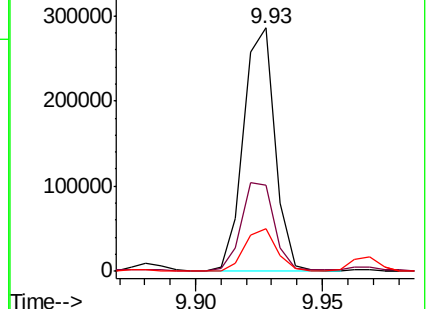
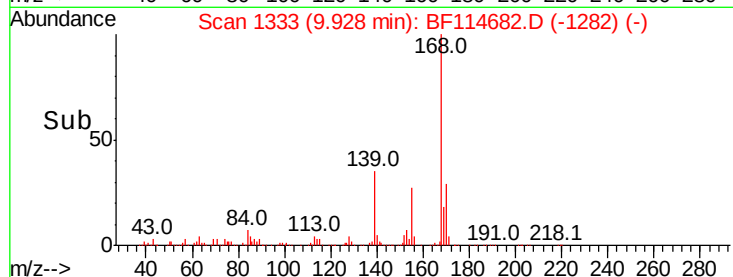
169 17.7 11.8 17.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

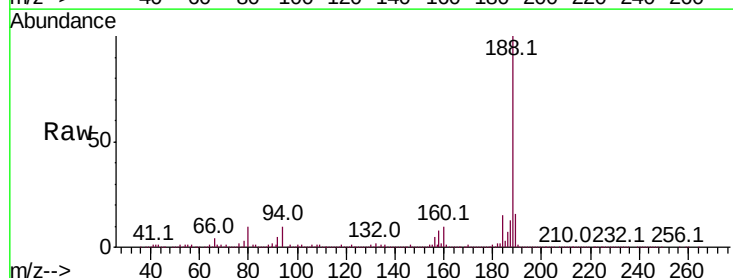
Tgt Ion:188 Resp: 1149992

Ion Ratio Lower Upper

188 100

94 9.9 8.6 13.0

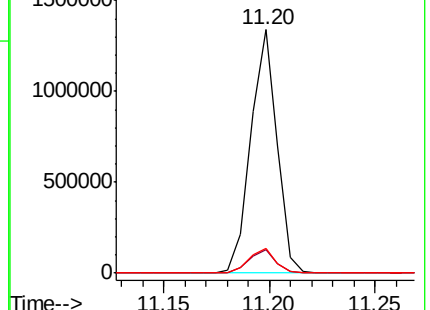
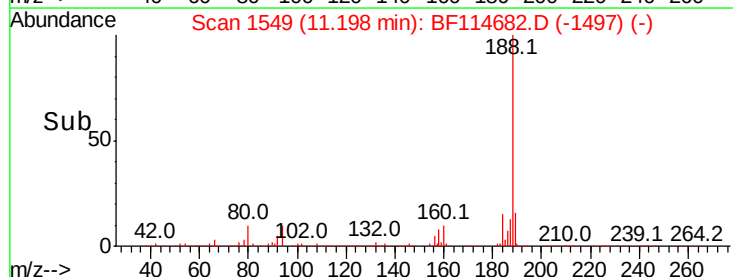
80 10.0 9.0 13.6

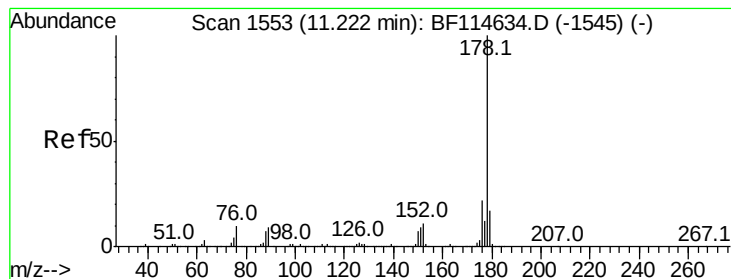


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 18.507 ng

RT: 11.22 min Scan# 1553

Delta R.T. 0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

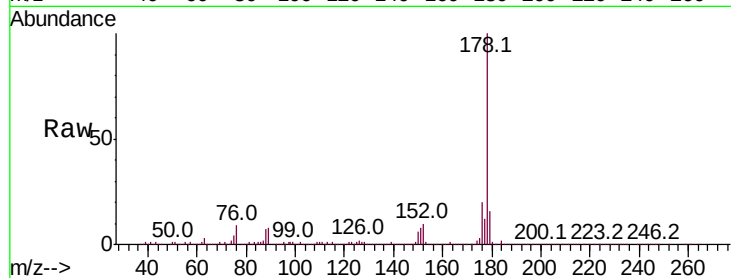
Tot Ion:178 Resp: 1085669

Ion Ratio Lower Upper

178 100

176 20.0 17.2 25.8

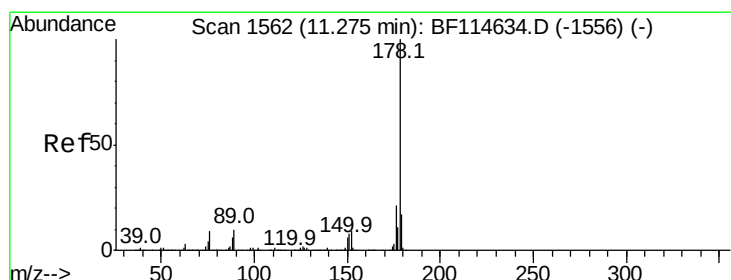
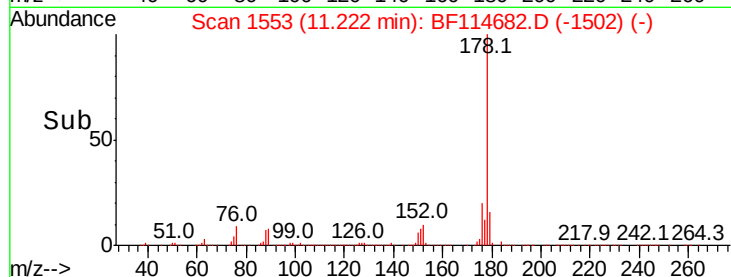
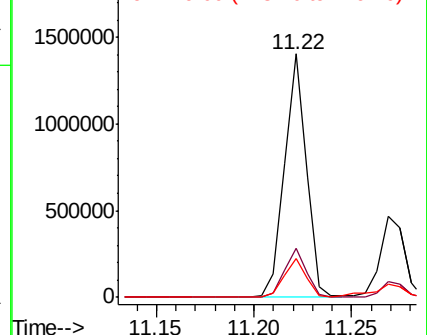
179 16.1 13.9 20.9



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: 6.587 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

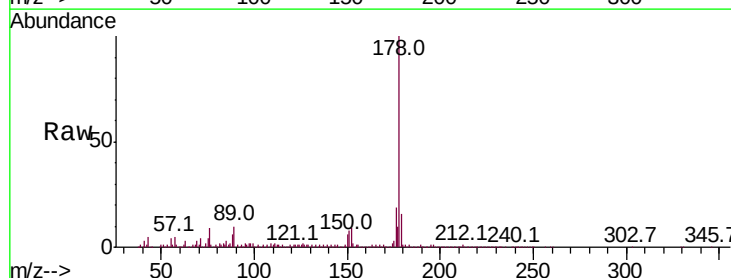
Tgt Ion:178 Resp: 391067

Ion Ratio Lower Upper

178 100

176 19.3 16.6 24.8

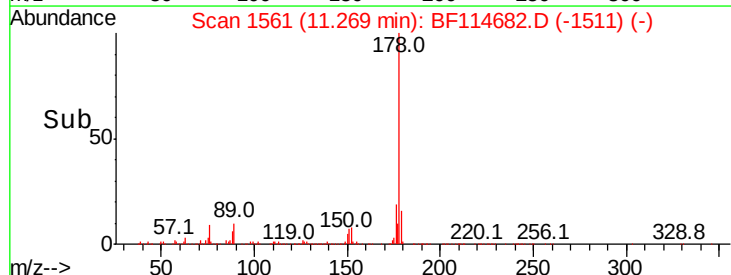
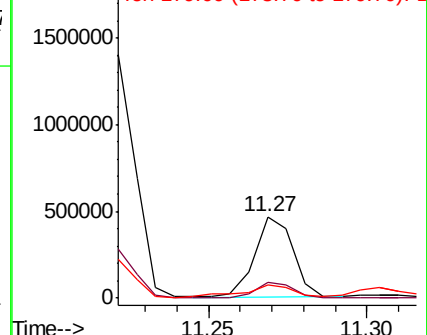
179 15.9 13.4 20.0

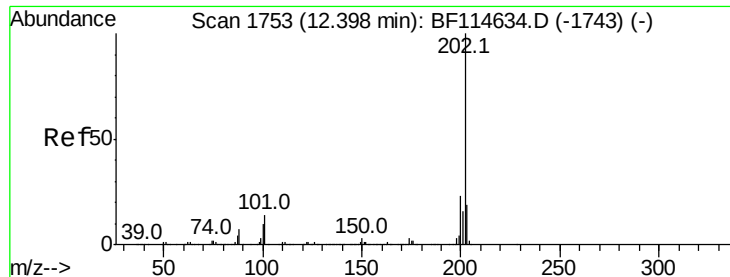


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 29.071 ng

RT: 12.40 min Scan# 1754

Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampled :

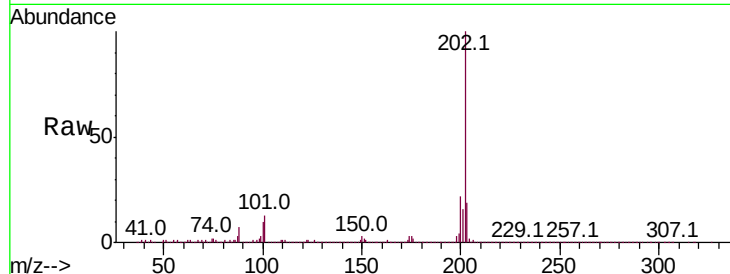
Tot Ion:202 Resp: 1765872

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.9

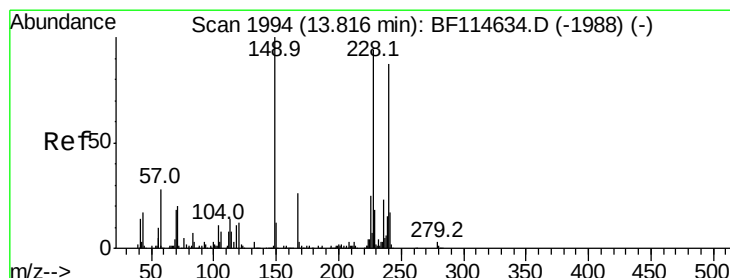
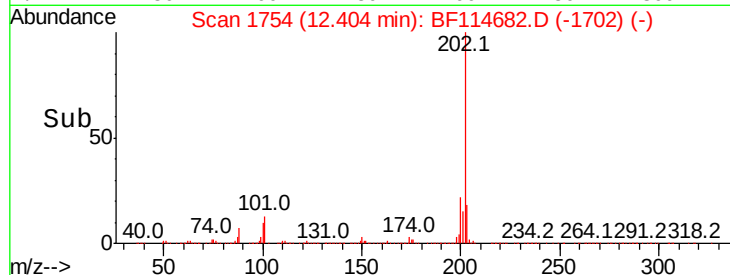
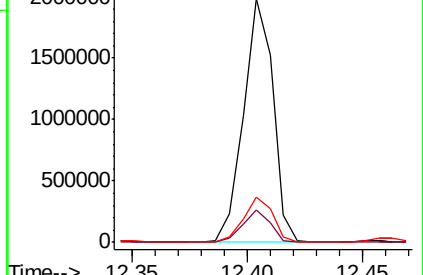
203 18.6 0.0 39.1



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: 13.82 min Scan# 1995

Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

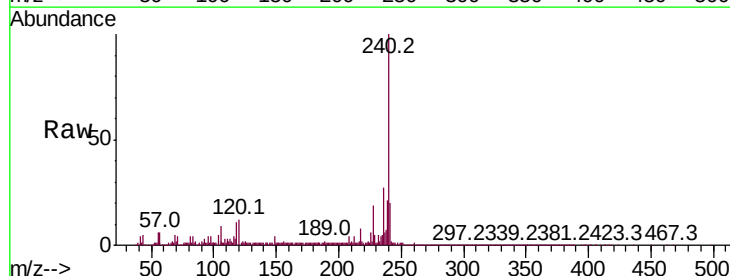
Tgt Ion:240 Resp: 737407

Ion Ratio Lower Upper

240 100

120 12.5 11.2 16.8

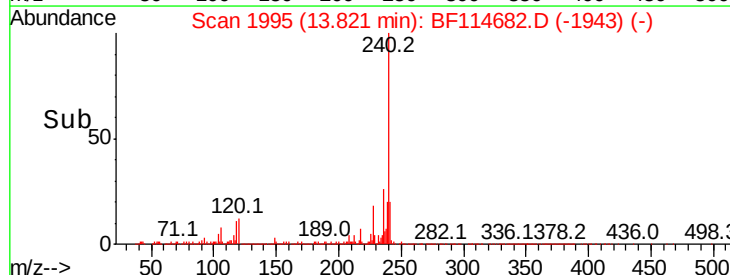
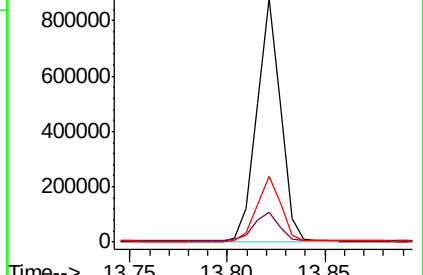
236 26.9 21.2 31.8

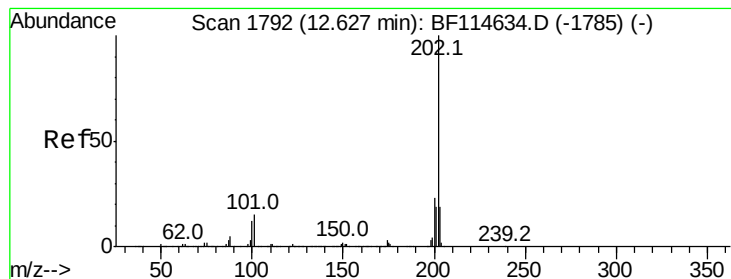


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 25.968 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

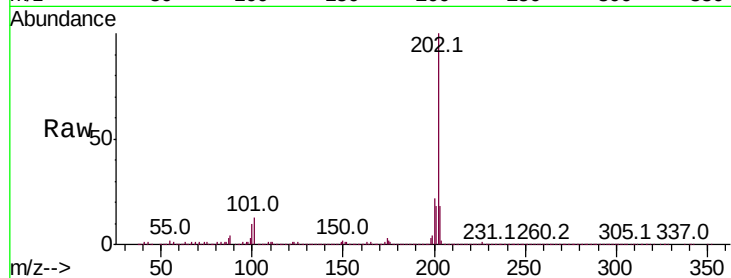
Tot Ion:202 Resp: 1619839

Ion	Ratio	Lower	Upper
202	100		
200	22.1	18.6	28.0
203	18.4	15.4	23.2

202 100

200 22.1 18.6 28.0

203 18.4 15.4 23.2

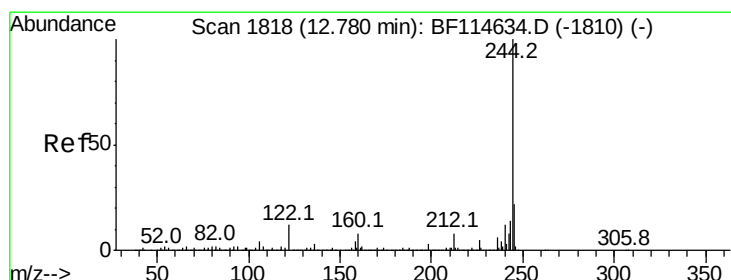
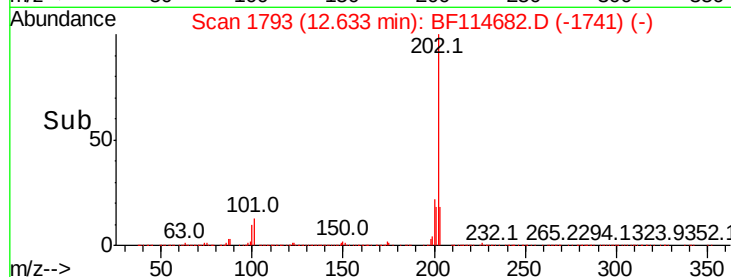
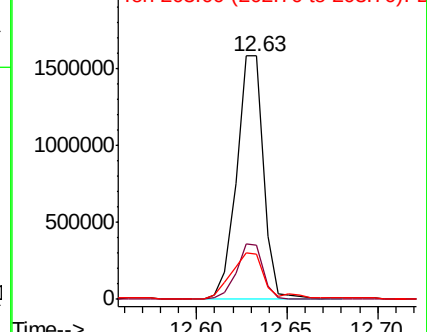


Abundance

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: 43.140 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

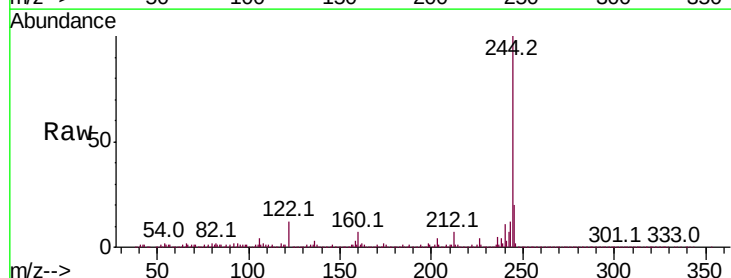
Tgt Ion:244 Resp: 1691976

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.1	9.1
122	12.1	9.8	14.8

244 100

212 7.0 6.1 9.1

122 12.1 9.8 14.8

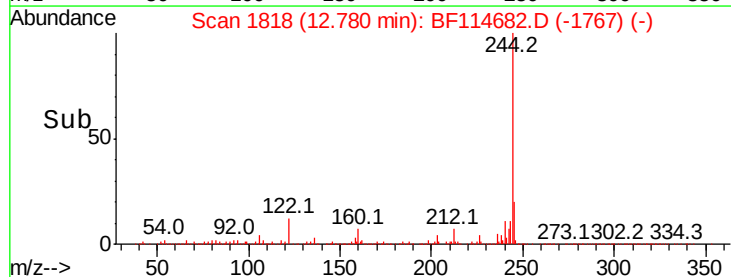
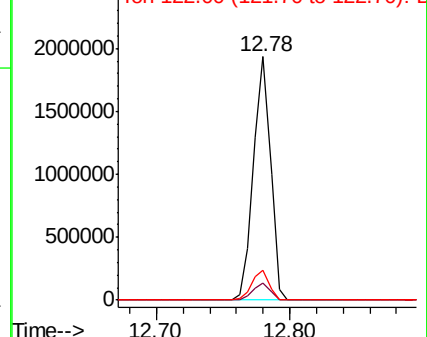


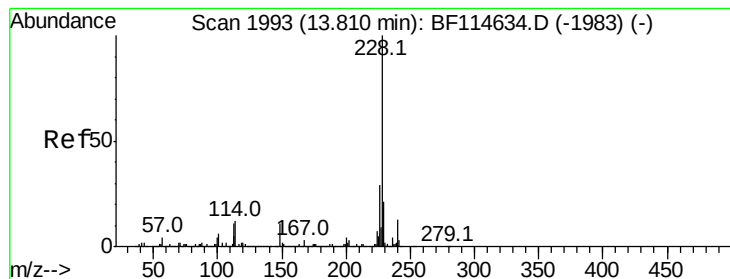
Abundance

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: 11.450 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

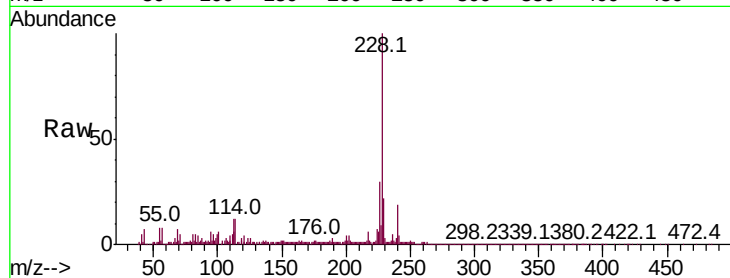
Tot Ion:228 Resp: 648812

Ion Ratio Lower Upper

228 100

226 30.3 23.0 34.6

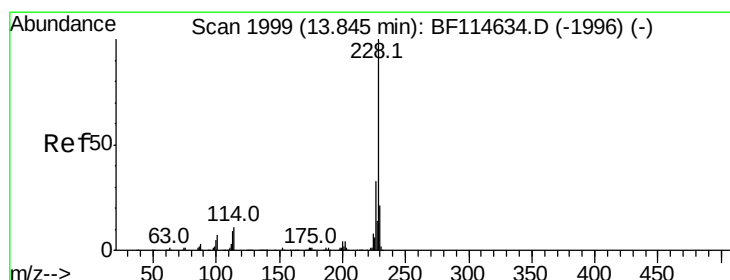
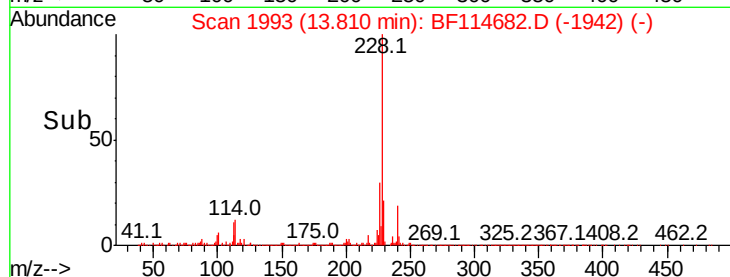
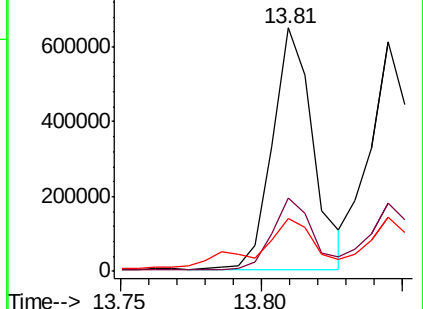
229 21.8 17.0 25.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 10.845 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

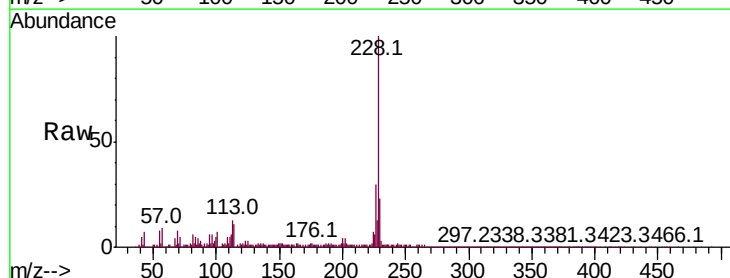
Tgt Ion:228 Resp: 587138

Ion Ratio Lower Upper

228 100

226 29.9 26.4 39.6

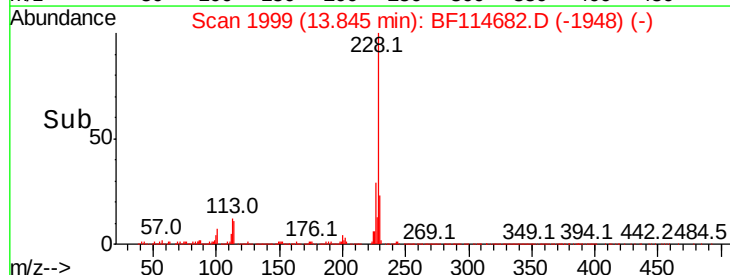
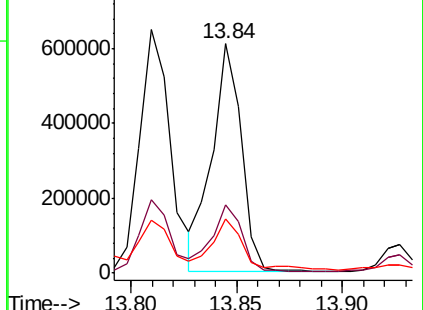
229 23.4 17.1 25.7

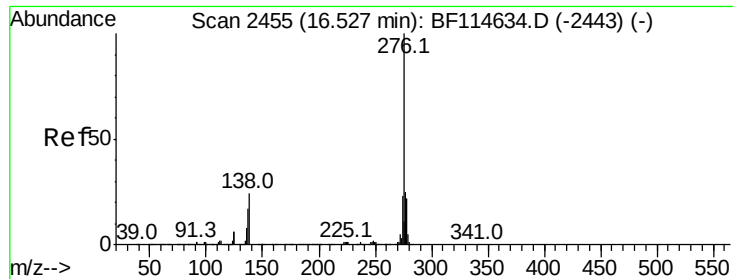


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

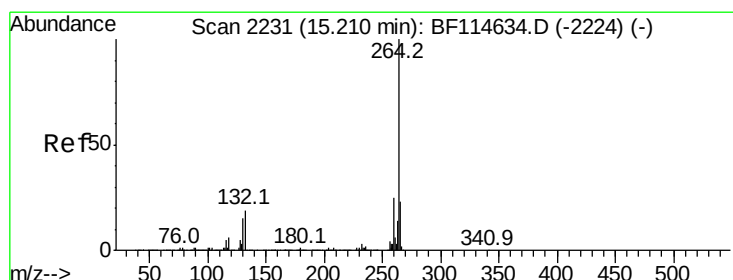
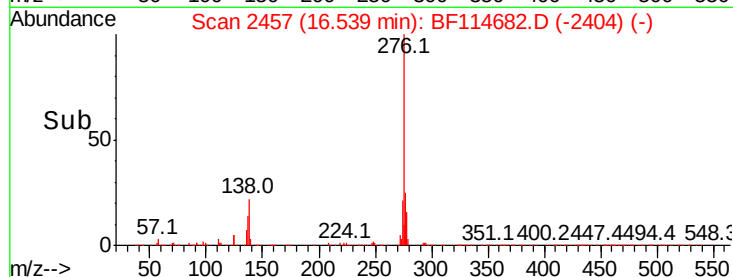
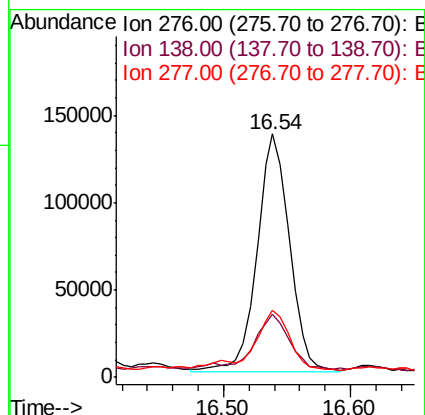
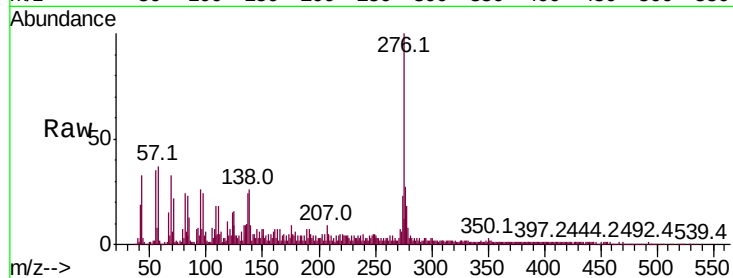




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.469 ng
 RT: 16.54 min Scan# 2457
 Delta R.T. 0.01 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

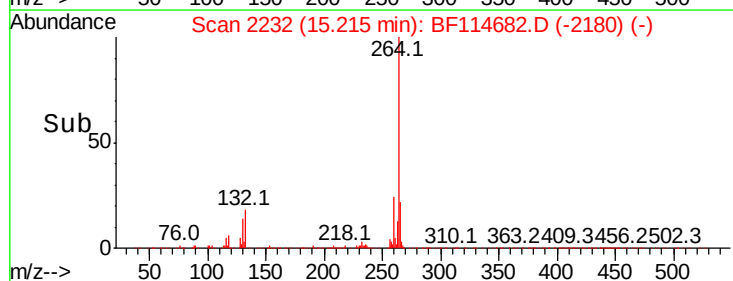
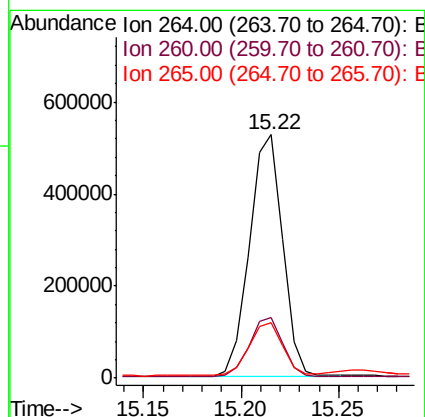
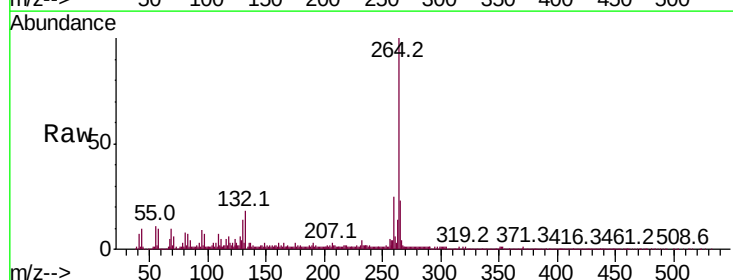
Instrument :
 BNA_F
 ClientSampleId :

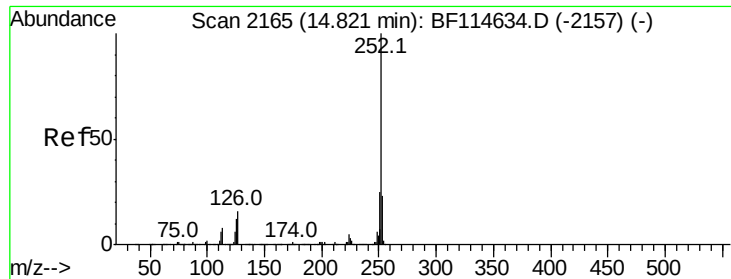
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.4	23.0	34.6
277	24.9	20.5	30.7



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.22 min Scan# 2232
 Delta R.T. 0.01 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.7	29.5
265	22.9	18.1	27.1

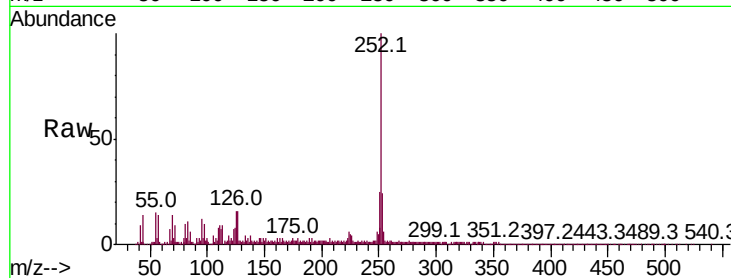




#88
Benzo(b)fluoranthene
Concen: 20.291 ng
RT: 14.82 min Scan# 2165
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.7	28.1
125	16.5	9.4	14.2#

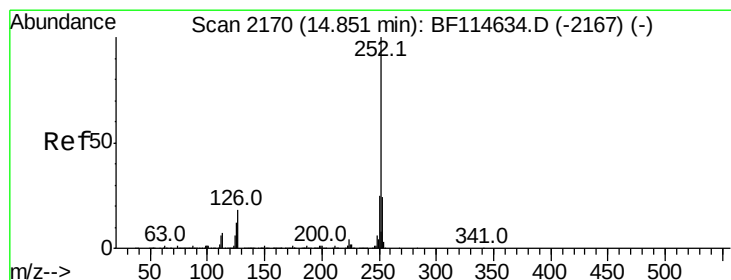
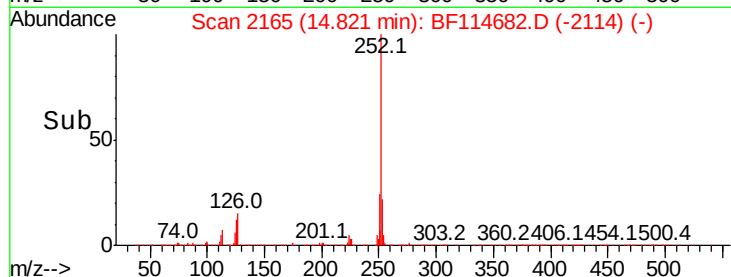
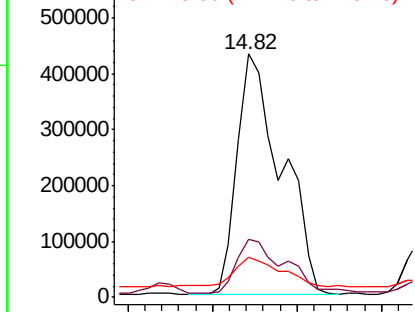


Abundance

Ion 252.00 (251.70 to 252.70): E

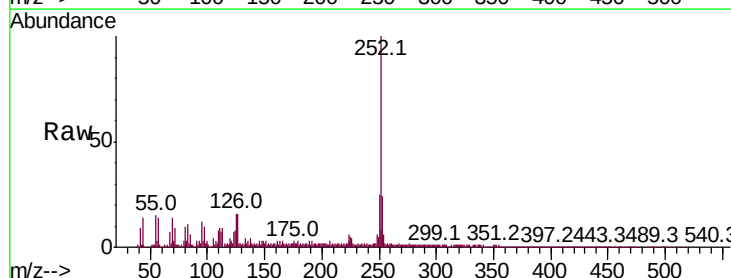
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 23.345 ng
RT: 14.82 min Scan# 2165
Delta R.T. -0.03 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.9	28.3
125	16.5	9.5	14.3#

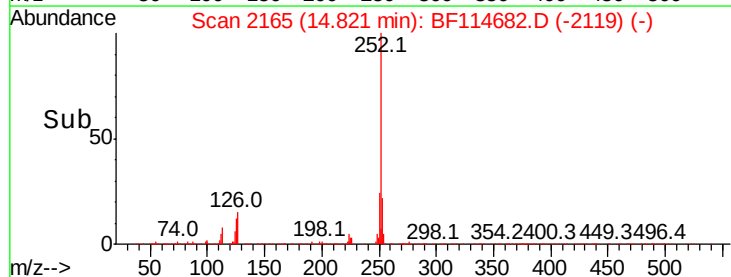
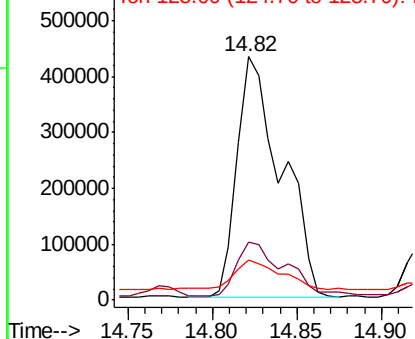


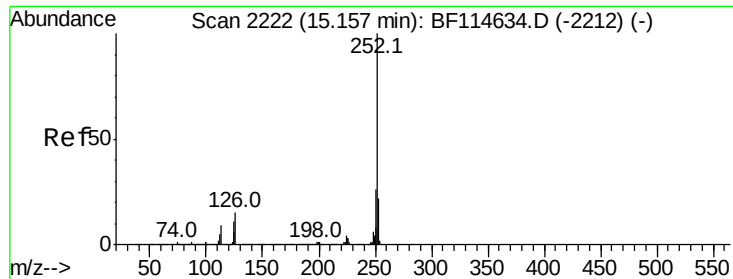
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

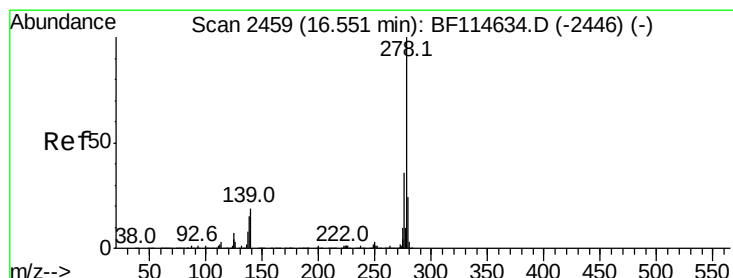
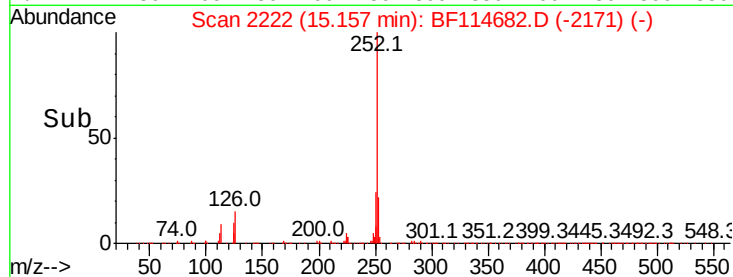
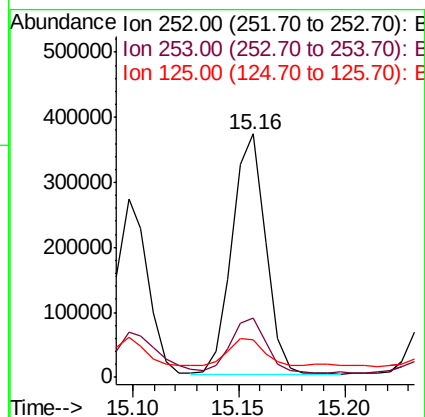
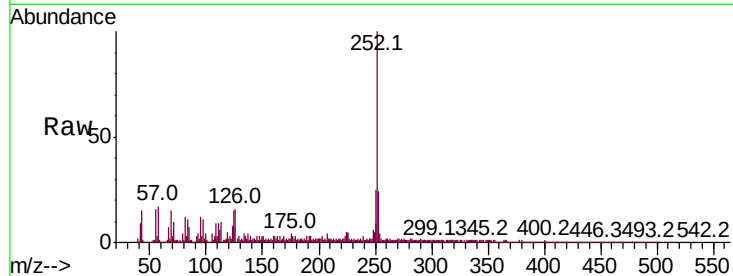




#90
Benzo(a)pyrene
Concen: 11.831 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

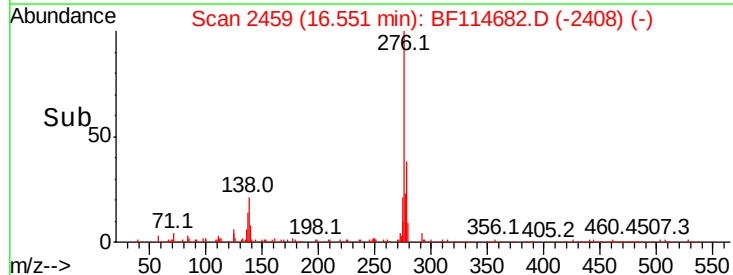
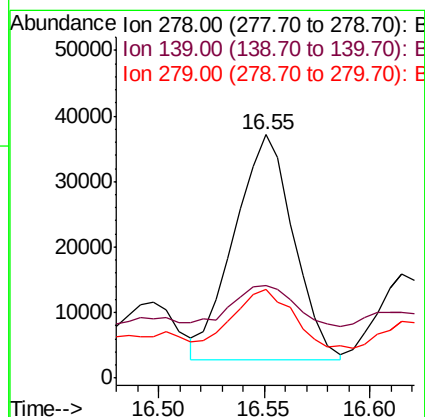
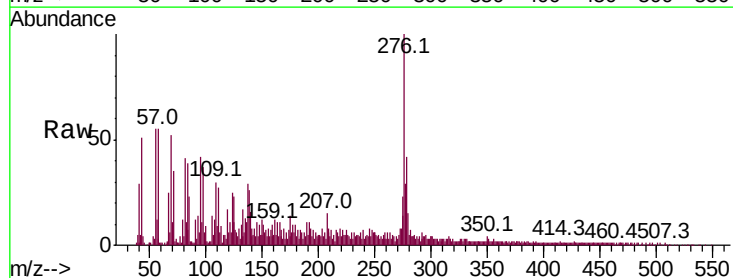
Instrument :
BNA_F
ClientSampled :

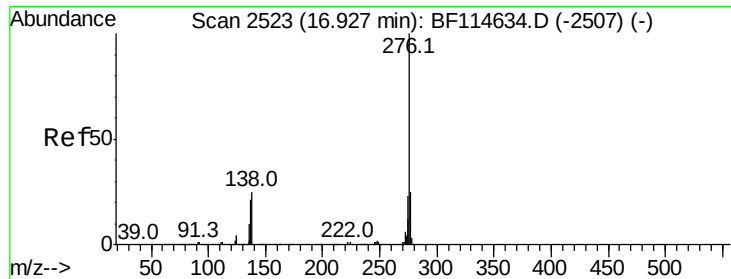
Tot Ion:252 Resp: 404234
Ion Ratio Lower Upper
252 100
253 24.4 18.0 27.0
125 15.3 9.2 13.8#



#91
Dibenzo(a,h)anthracene
Concen: 2.207 ng
RT: 16.55 min Scan# 2459
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion:278 Resp: 66646
Ion Ratio Lower Upper
278 100
139 38.2 14.9 22.3#
279 36.6 19.5 29.3#

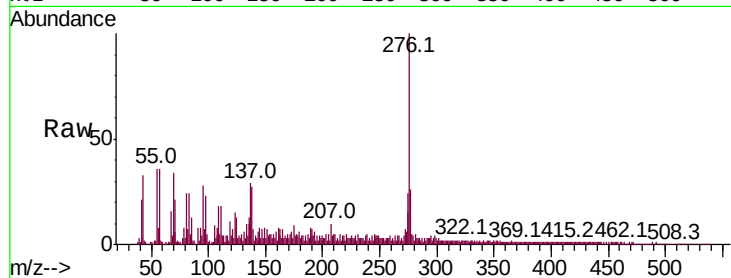




#92
 Benzo(a,h,i)perylene
 Concen: 7.869 ng
 RT: 16.94 min Scan# 2525
 Delta R.T. 0.01 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.4	19.7	29.5
138	26.8	19.8	29.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

