

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114684.D
 Acq On : 31 May 2019 2:05
 Operator : HP/JU
 Sample : K3041-11DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-DDL

Quant Time: May 31 07:52:40 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	386693	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	1427675	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	633260	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1132392	20.00	ng	0.00
76) Chrysene-d12	13.82	240	744055	20.00	ng	0.00
87) Perylene-d12	15.21	264	613901	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1359498	61.73	ng	0.00
7) Phenol-d6	6.33	99	1640765	61.82	ng	0.00
23) Nitrobenzene-d5	7.25	82	960999	42.00	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	324123	53.72	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	1432258	32.63	ng	0.00
79) Terphenyl-d14	12.78	244	1252902	31.66	ng	0.00

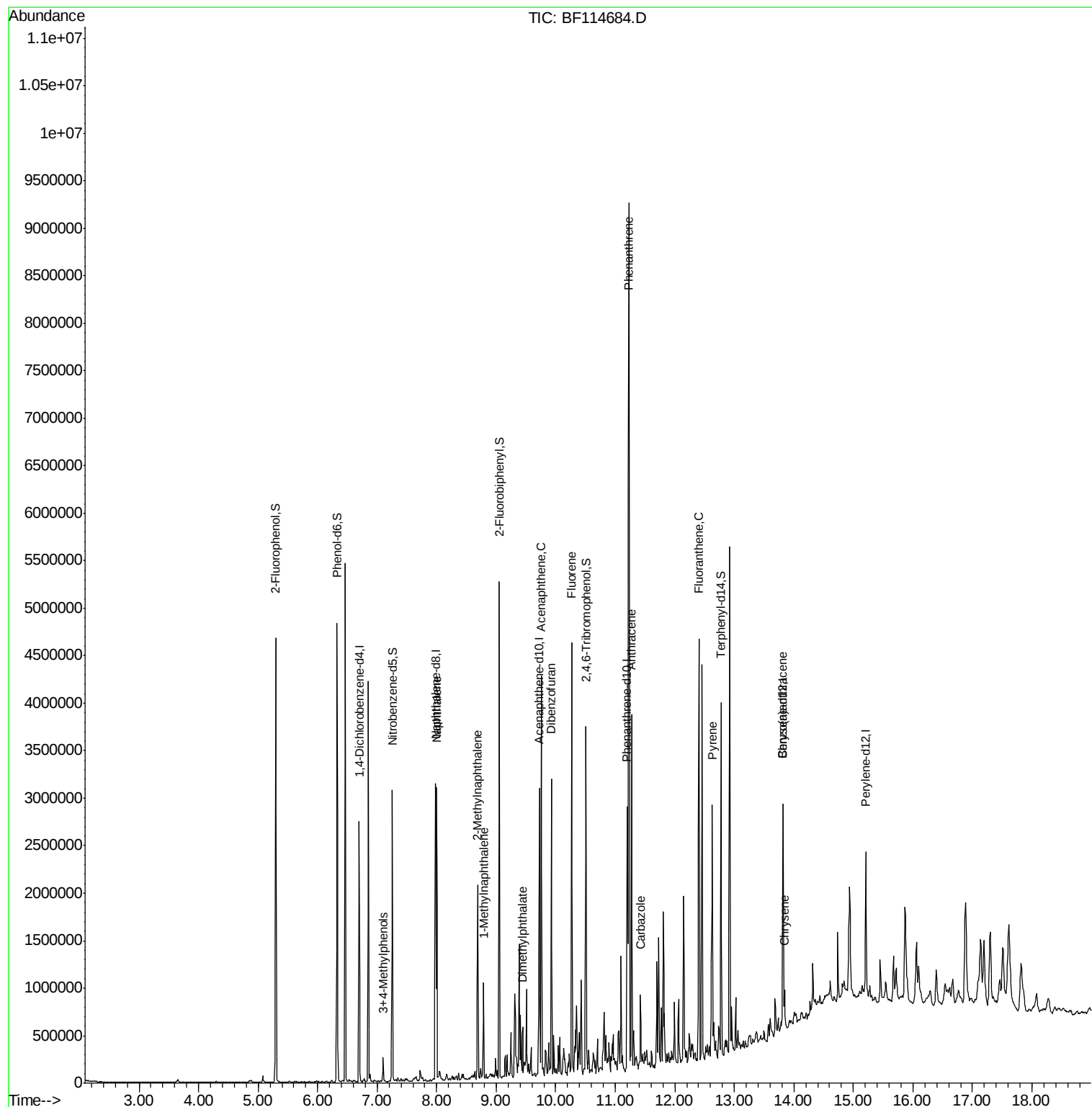
Target Compounds				Qvalue		
20) 3+4-Methylphenols	7.10	107	52575	2.078	ng	# 56
31) Naphthalene	8.00	128	1193557	18.150	ng	97
37) 2-Methylnaphthalene	8.69	142	516611	11.824	ng	98
38) 1-Methylnaphthalene	8.79	142	238767	5.768	ng	99
50) Dimethylphthalate	9.45	163	199458	4.520	ng	97
52) Acenaphthene	9.76	154	800475	21.911	ng	99
55) Dibenzofuran	9.93	168	976838	18.784	ng	97
58) Fluorene	10.27	166	1144426	30.138	ng	100
71) Phenanthrene	11.23	178	3780782	65.451	ng	98
72) Anthracene	11.27	178	1196983	20.474	ng	98
73) Carbazole	11.42	167	283490	5.517	ng	95
75) Fluoranthene	12.40	202	1684002	28.154	ng	98
78) Pvrene	12.63	202	1117783	17.759	ng	98
81) Benzo(a)anthracene	13.81	228	182131	3.185	ng	98
83) Chrysene	13.85	228	159691	2.923	ng	93

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

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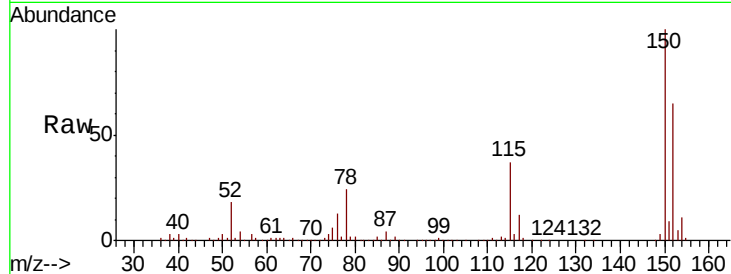


#1

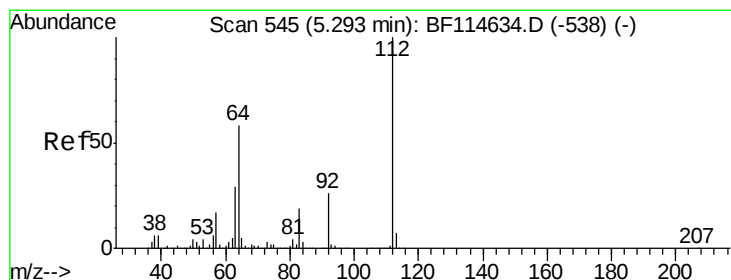
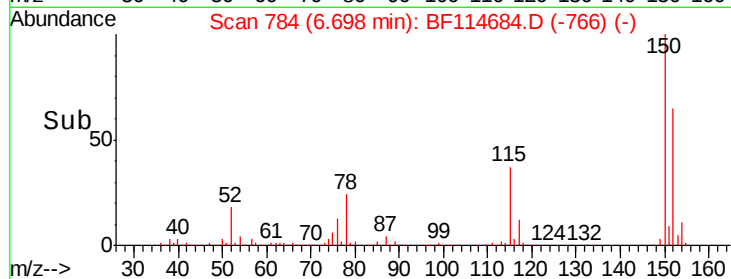
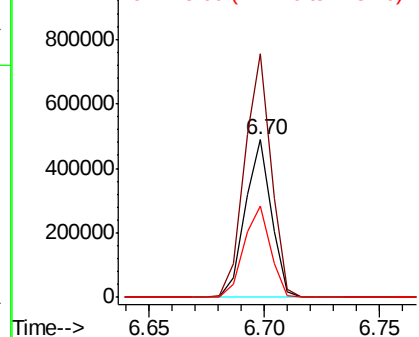
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.70 min Scan# 784
 Delta R.T. 0.01 min
 Lab File: BF114684.D
 Acq: 31 May 2019 2:05

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-DDL

Tot Ion:152 Resp: 386693
 Ion Ratio Lower Upper
 152 100
 150 154.5 124.4 186.6
 115 57.7 48.7 73.1



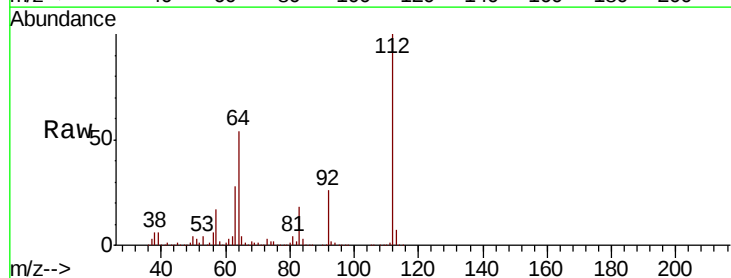
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



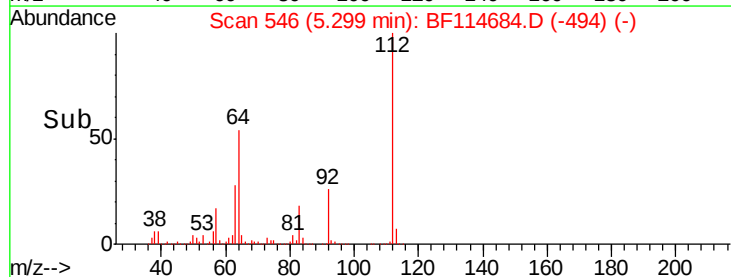
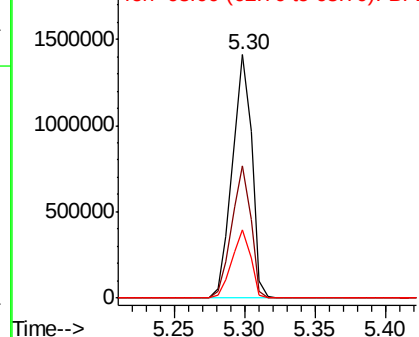
#5

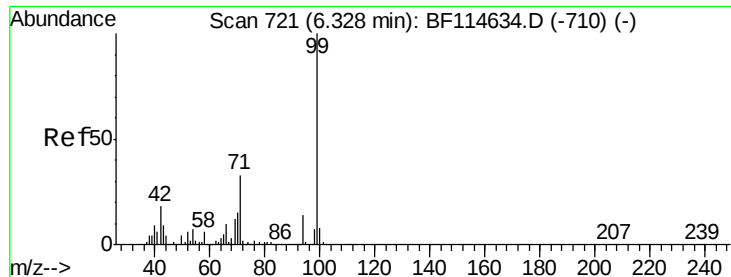
2-Fluorophenol
 Concen: 61.726 ng
 RT: 5.30 min Scan# 546
 Delta R.T. 0.01 min
 Lab File: BF114684.D
 Acq: 31 May 2019 2:05

Tgt Ion:112 Resp: 1359498
 Ion Ratio Lower Upper
 112 100
 64 54.3 46.1 69.1
 63 28.2 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: 61.821 ng

RT: 6.33 min Scan# 721

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

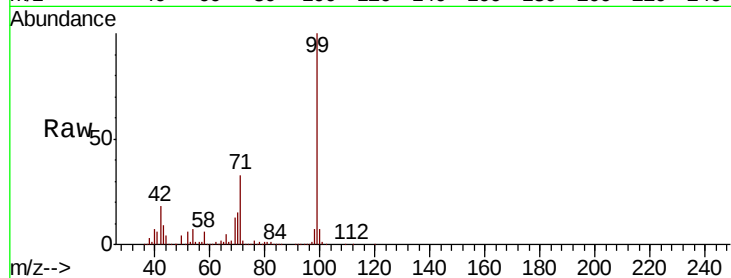
BNA_F

ClientSampleId :

TP-2-DDL

Tot Ion: 99 Resp: 1640765

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.7	22.1
71	33.4	26.6	40.0

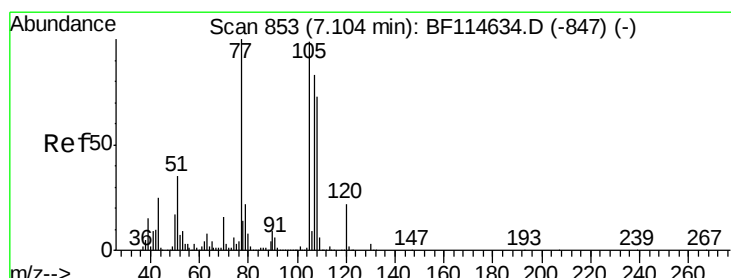
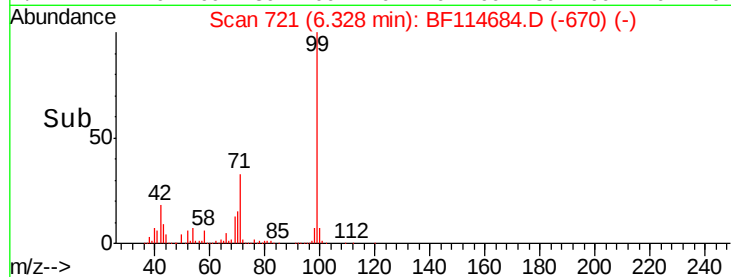


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#20

3+4-Methylphenols

Concen: 2.078 ng

RT: 7.10 min Scan# 852

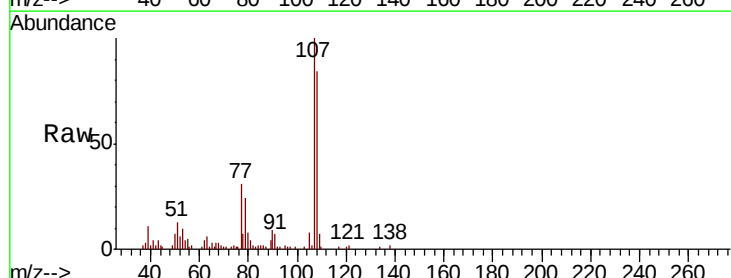
Delta R.T. -0.01 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Tgt Ion:107 Resp: 52575

Ion	Ratio	Lower	Upper
107	100		
108	83.9	68.6	108.6
77	31.1	100.5	140.5#
79	23.5	7.0	47.0



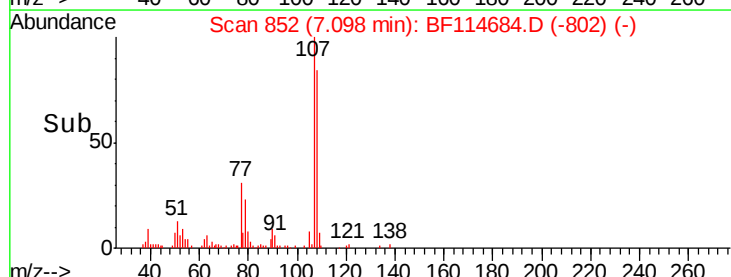
Abundance

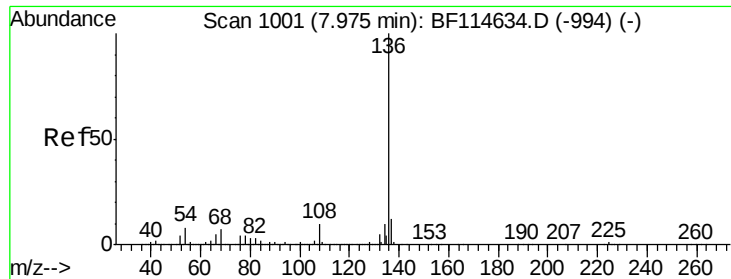
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1

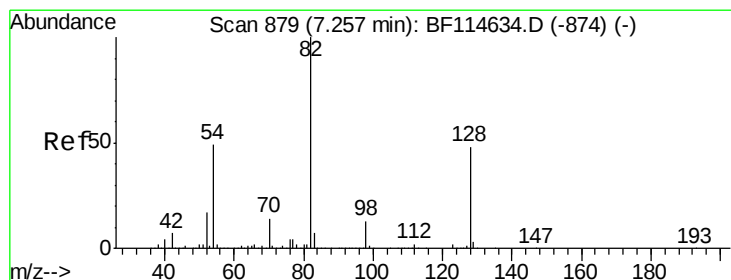
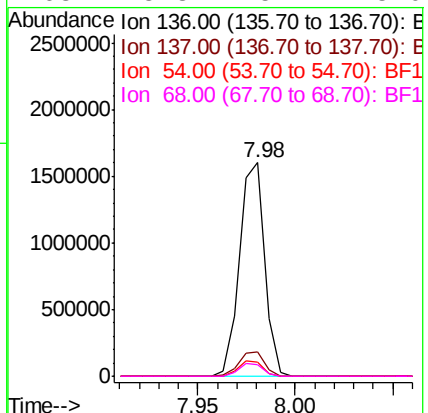
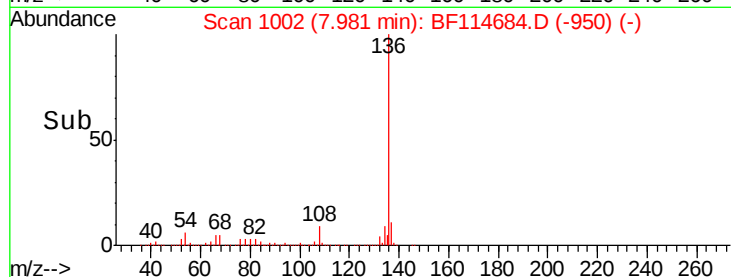
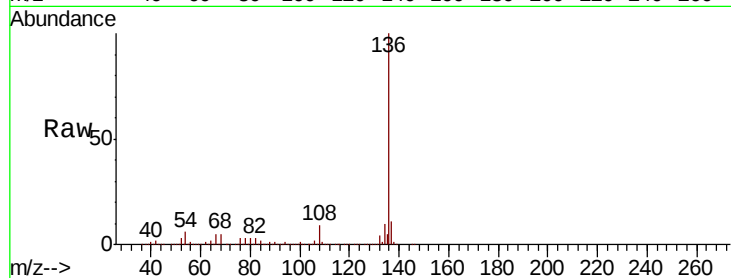




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.98 min Scan# 1002
Delta R.T. 0.01 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

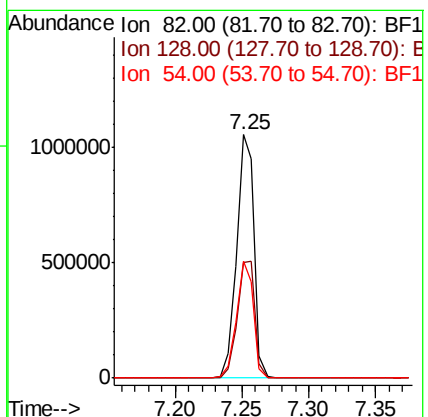
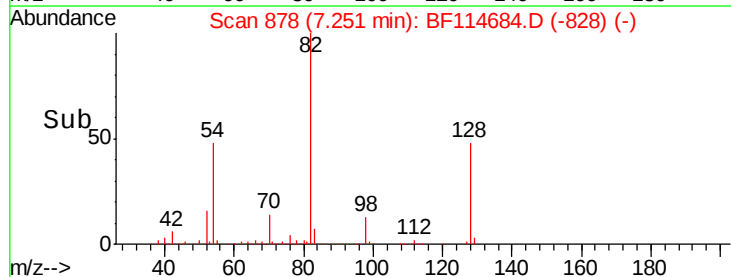
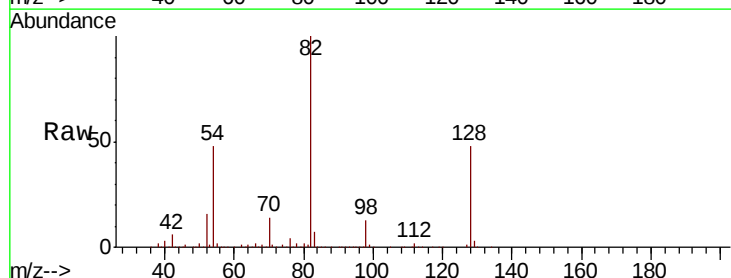
Instrument :
BNA_F
ClientSampleId :
TP-2-DDL

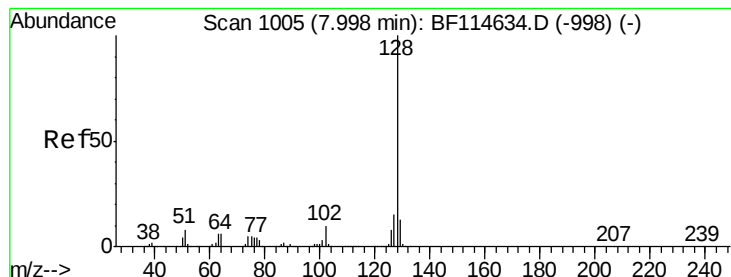
Tot Ion:136 Resp: 1427675
Ion Ratio Lower Upper
136 100
137 11.3 9.3 13.9
54 6.4 6.3 9.5
68 5.3 5.4 8.0#



#23
Nitrobenzene-d5
Concen: 41.995 ng
RT: 7.25 min Scan# 878
Delta R.T. -0.01 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

Tgt Ion: 82 Resp: 960999
Ion Ratio Lower Upper
82 100
128 47.7 38.5 57.7
54 47.9 39.1 58.7





#31

Naphthalene

Concen: 18.150 ng

RT: 8.00 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

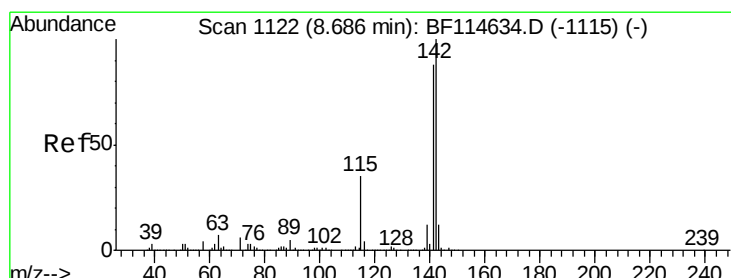
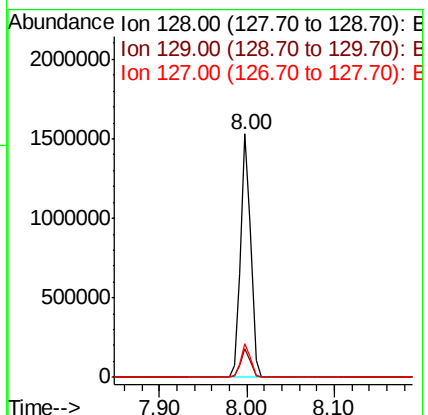
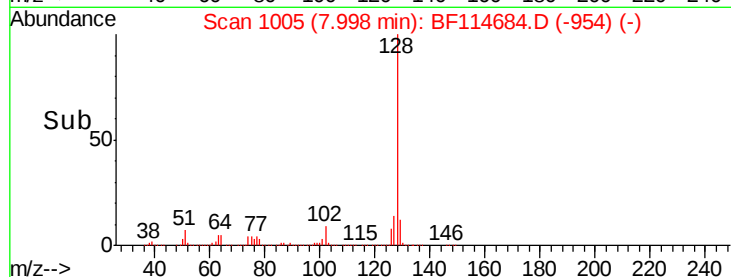
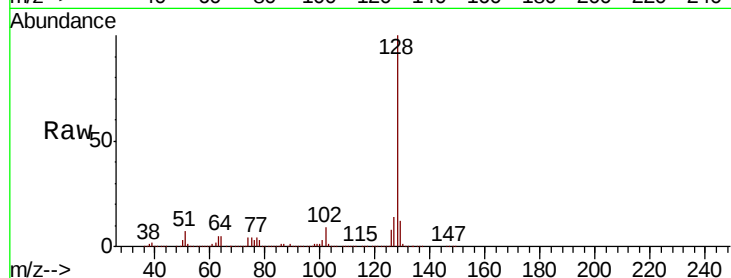
BNA_F

ClientSampleId :

TP-2-DDL

Tot Ion:128 Resp: 1193557

Ion	Ratio	Lower	Upper
128	100		
129	11.5	10.2	15.2
127	13.6	11.9	17.9



#37

2-Methylnaphthalene

Concen: 11.824 ng

RT: 8.69 min Scan# 1122

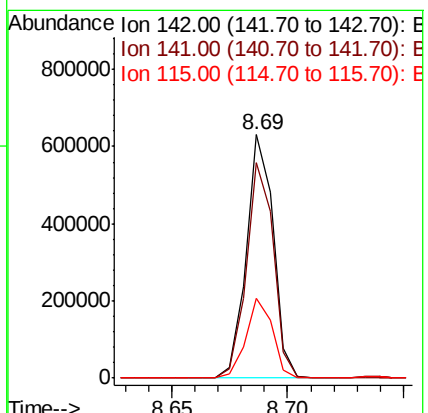
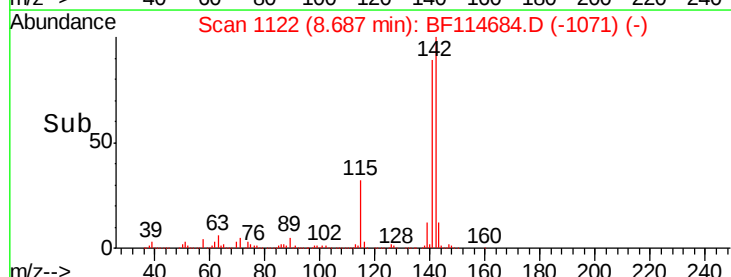
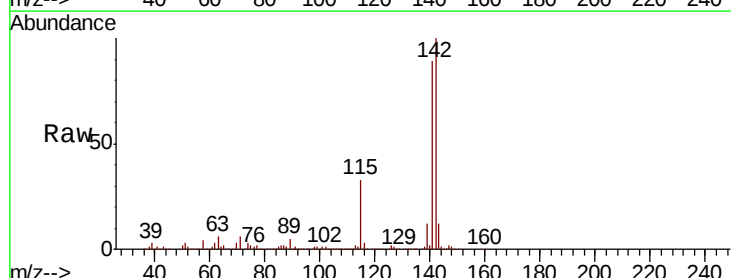
Delta R.T. 0.00 min

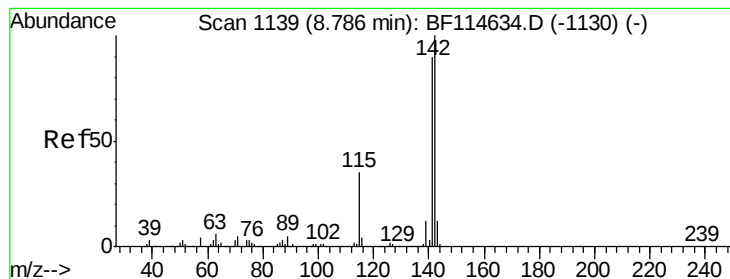
Lab File: BF114684.D

Acq: 31 May 2019 2:05

Tgt Ion:142 Resp: 516611

Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.3	105.5
115	32.5	28.0	42.0





#38

1-Methylnaphthalene

Concen: 5.768 ng

RT: 8.79 min Scan# 1139

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

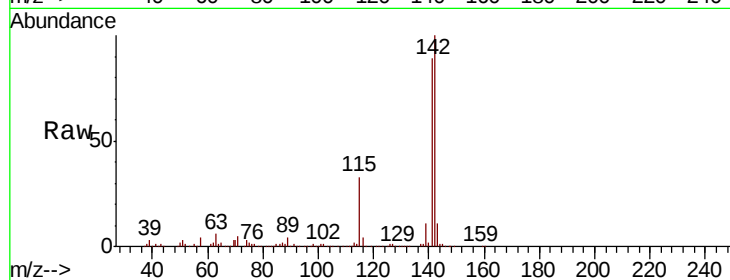
Tot Ion:142 Resp: 238767

Ion Ratio Lower Upper

142 100

141 89.4 72.3 108.5

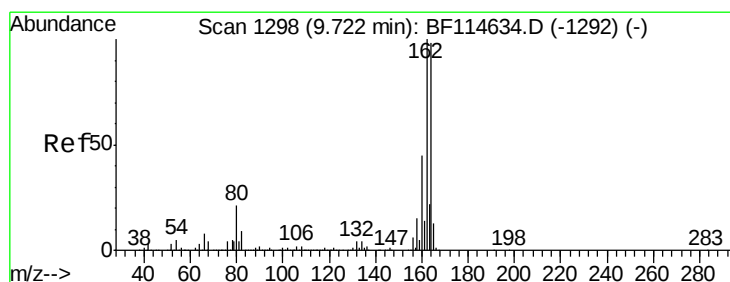
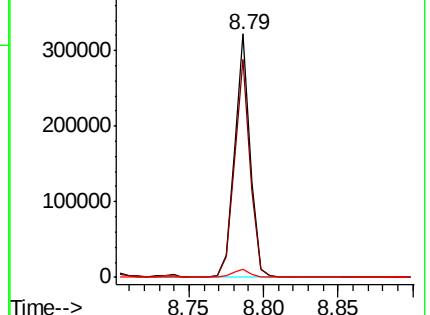
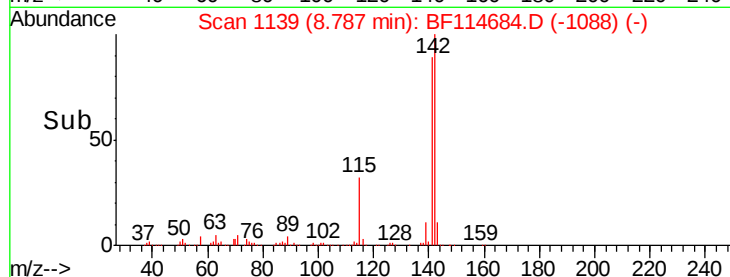
116 3.5 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1298

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

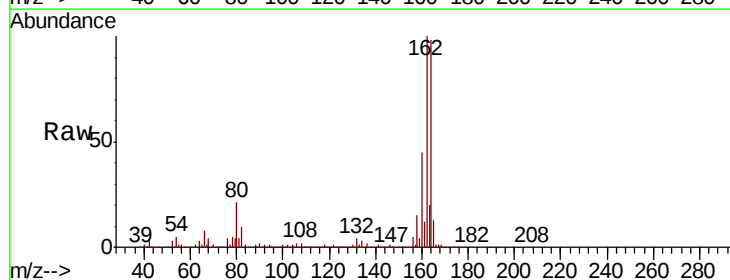
Tgt Ion:164 Resp: 633260

Ion Ratio Lower Upper

164 100

162 102.1 81.4 122.2

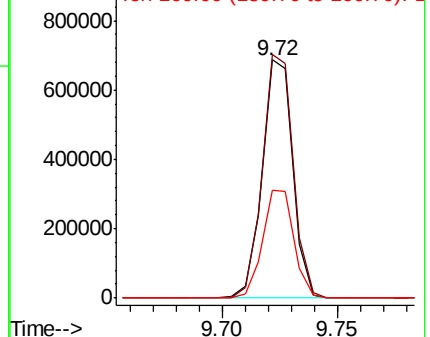
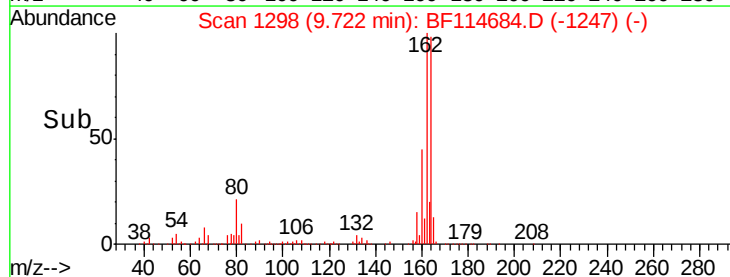
160 45.5 36.6 54.8

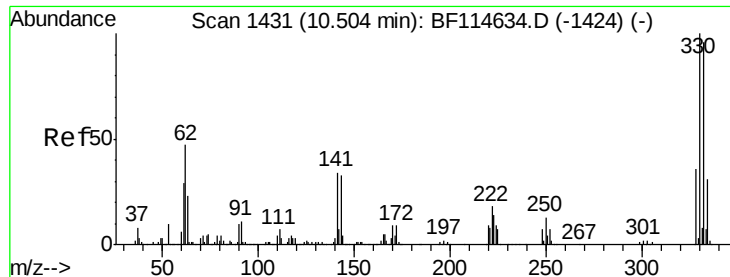


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

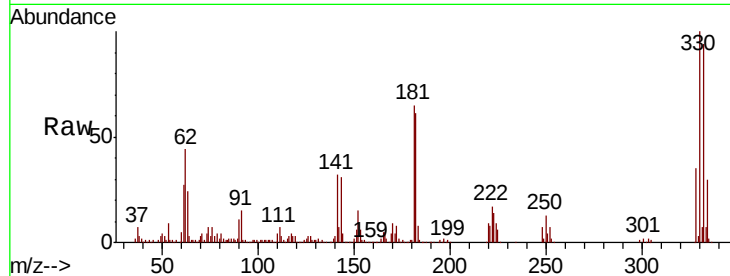




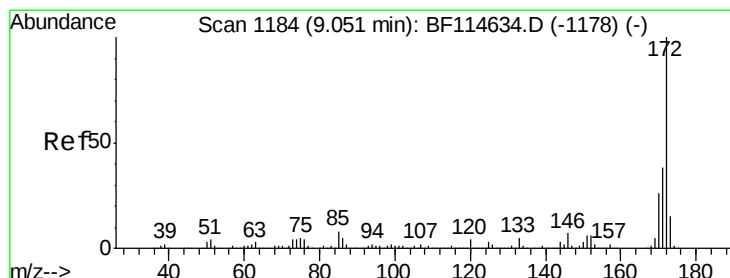
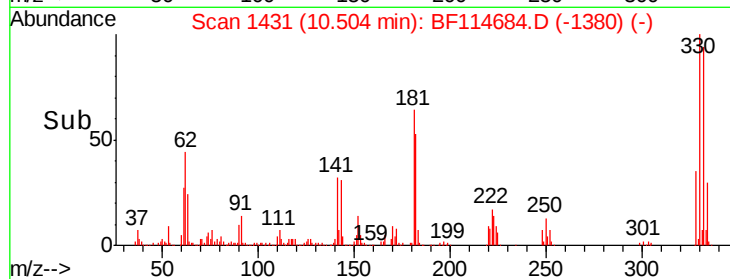
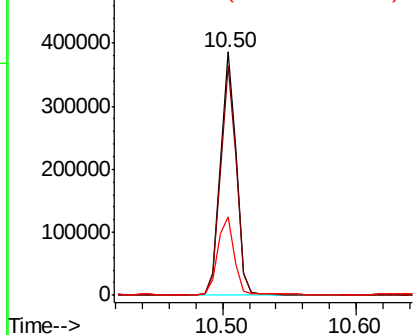
#42
 2,4,6-Tribromophenol
 Concen: 53.716 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. 0.00 min
 Lab File: BF114684.D
 Acq: 31 May 2019 2:05

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-DDL

Tot Ion:330 Resp: 324123
 Ion Ratio Lower Upper
 330 100
 332 95.1 75.8 113.8
 141 34.3 27.8 41.8

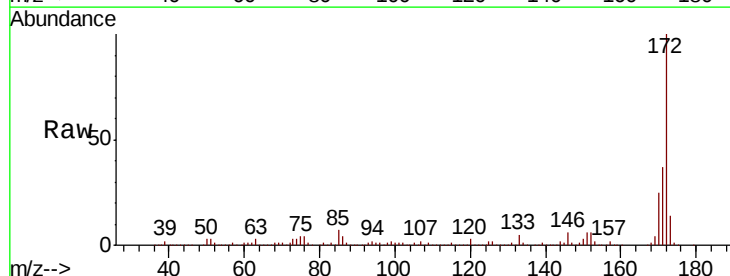


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

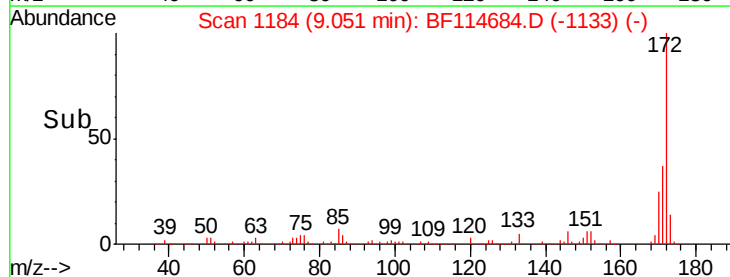
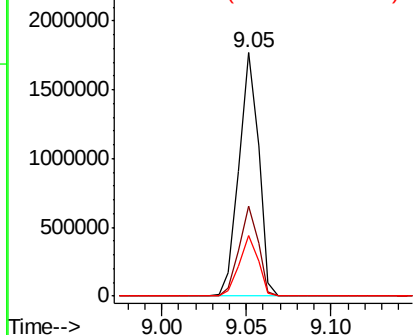


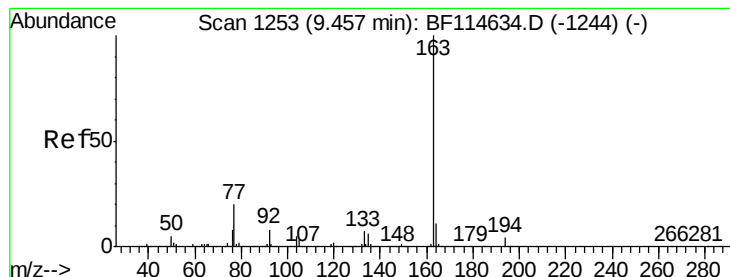
#45
 2-Fluorobiphenyl
 Concen: 32.626 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: BF114684.D
 Acq: 31 May 2019 2:05

Tgt Ion:172 Resp: 1432258
 Ion Ratio Lower Upper
 172 100
 171 36.8 30.6 45.8
 170 25.0 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: 4.520 ng

RT: 9.45 min Scan# 1251

Delta R.T. -0.01 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

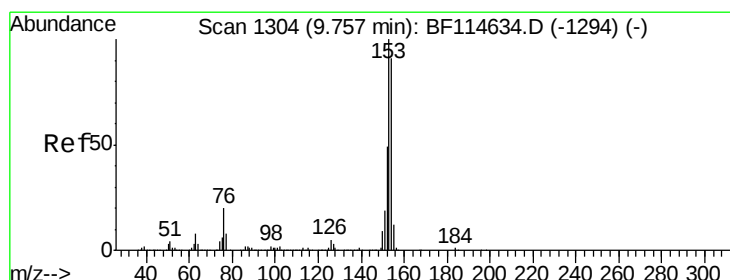
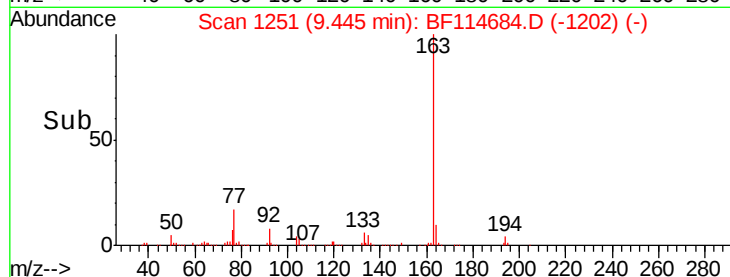
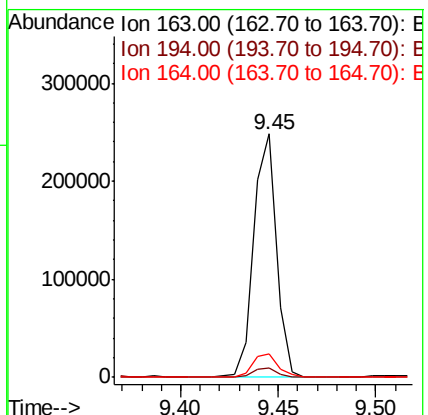
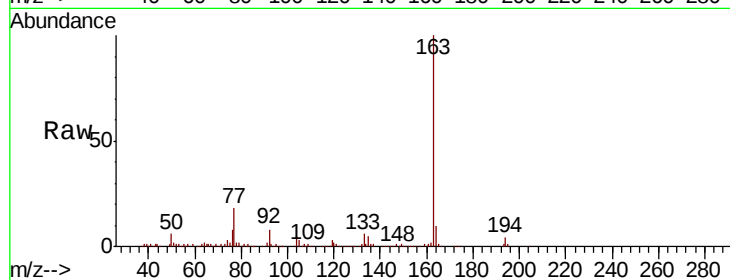
Tot Ion:163 Resp: 199458

Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.0

164 9.6 8.6 13.0



#52

Acenaphthene

Concen: 21.911 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

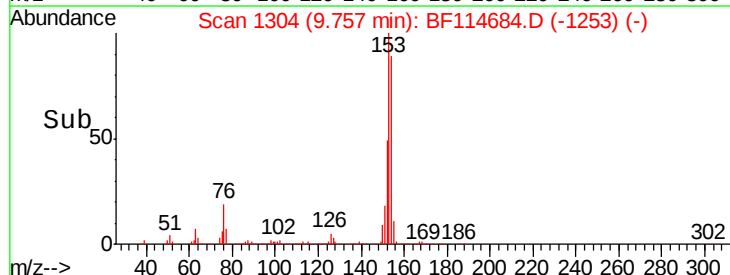
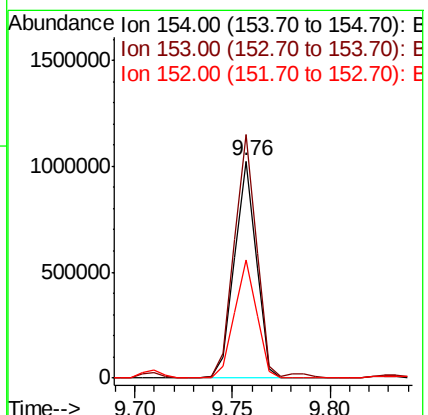
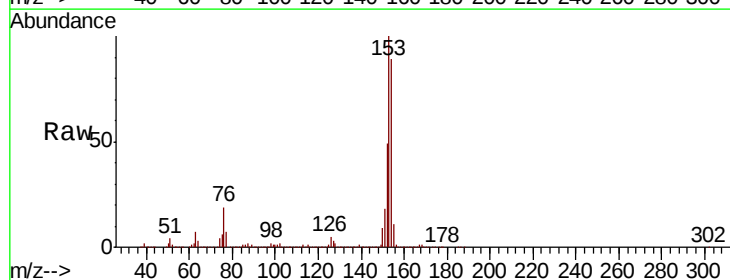
Tgt Ion:154 Resp: 800475

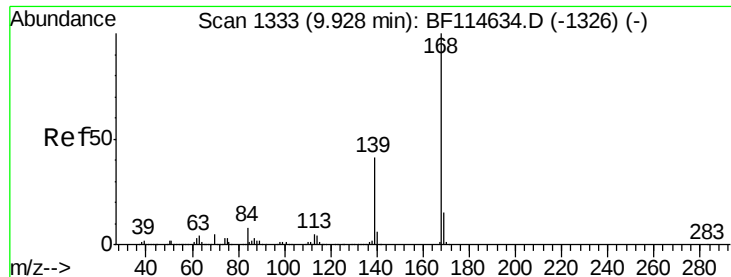
Ion Ratio Lower Upper

154 100

153 112.3 88.4 132.6

152 54.7 43.4 65.0

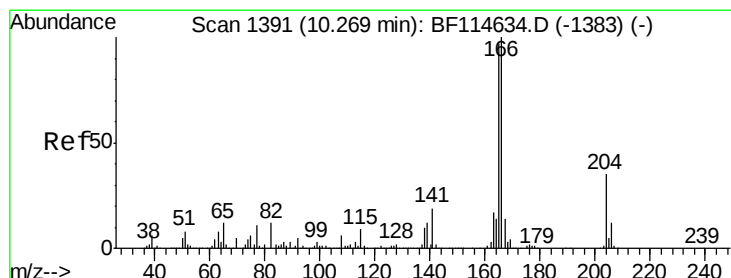
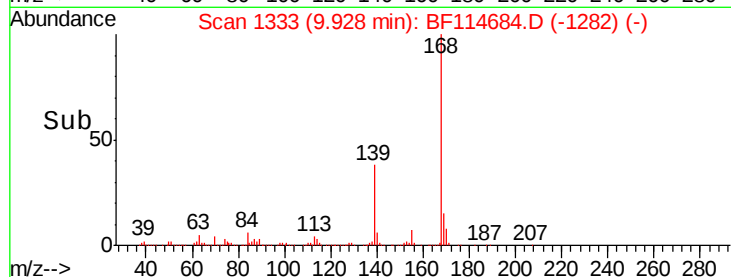
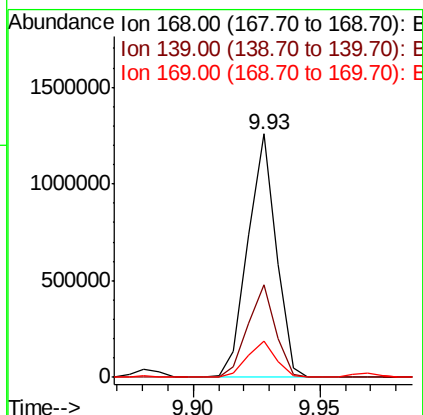
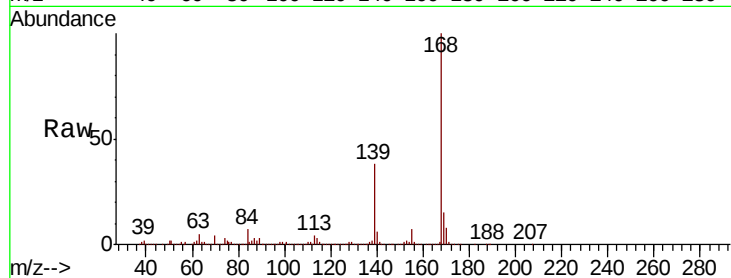




#55
Dibenzenofuran
Concen: 18.784 ng
RT: 9.93 min Scan# 1333
Delta R.T. 0.00 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

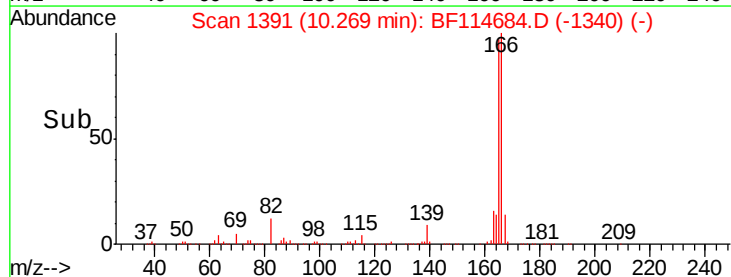
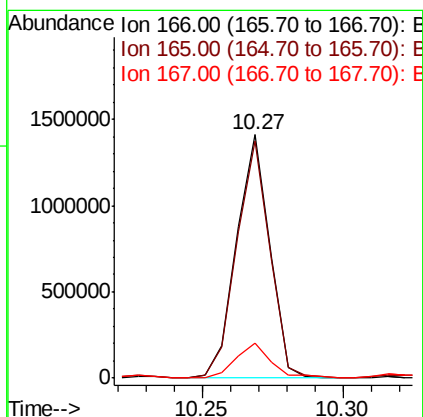
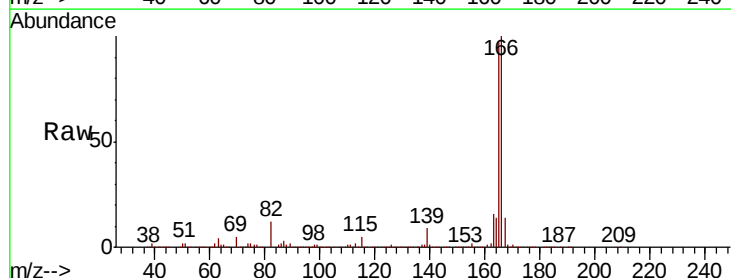
Instrument :
BNA_F
ClientSampleId :
TP-2-DDL

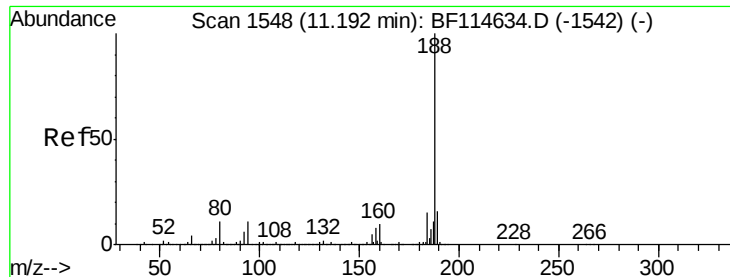
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.9	32.6	48.8
169	15.1	11.8	17.8



#58
Fluorene
Concen: 30.138 ng
RT: 10.27 min Scan# 1391
Delta R.T. 0.00 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.3	77.6	116.4
167	14.2	11.2	16.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.01 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

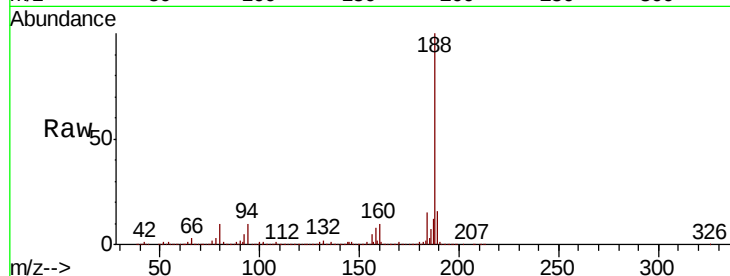
Tot Ion:188 Resp: 1132392

Ion Ratio Lower Upper

188 100

94 9.6 8.6 13.0

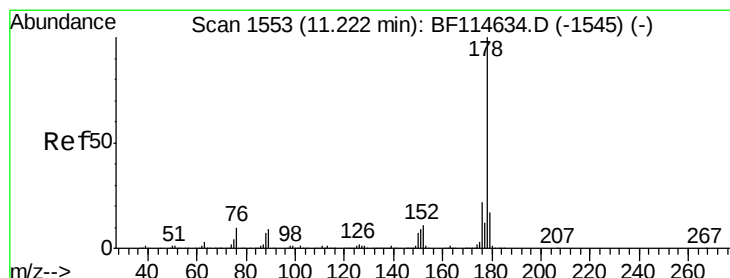
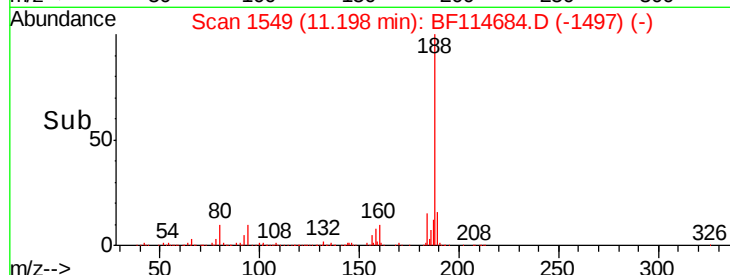
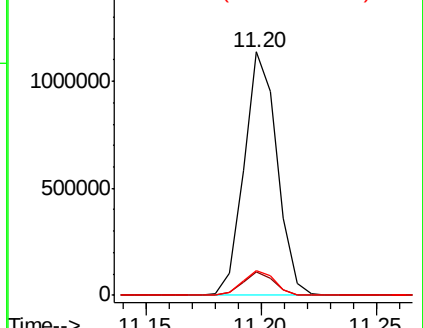
80 10.3 9.0 13.6



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: 65.451 ng

RT: 11.23 min Scan# 1554

Delta R.T. 0.01 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

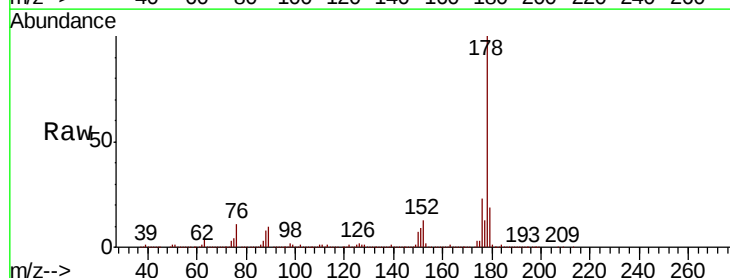
Tgt Ion:178 Resp: 3780782

Ion Ratio Lower Upper

178 100

176 22.5 17.2 25.8

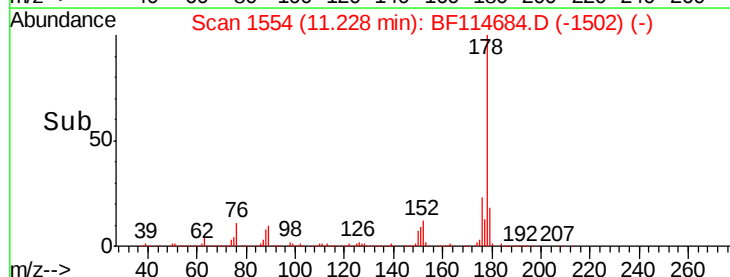
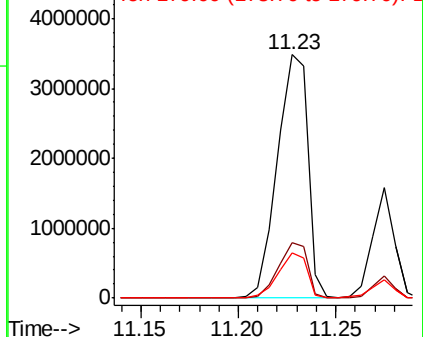
179 18.6 13.9 20.9

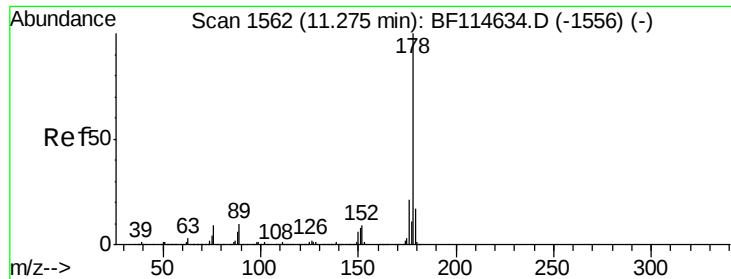


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 20.474 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

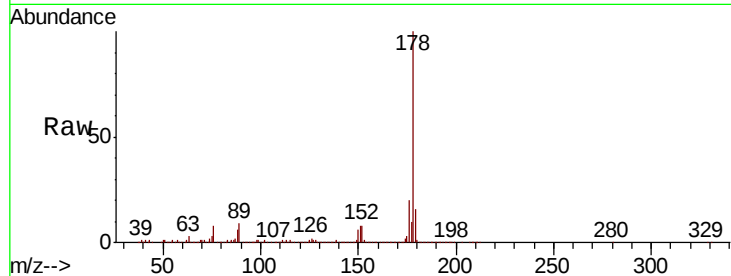
Tot Ion:178 Resp: 1196983

Ion Ratio Lower Upper

178 100

176 19.5 16.6 24.8

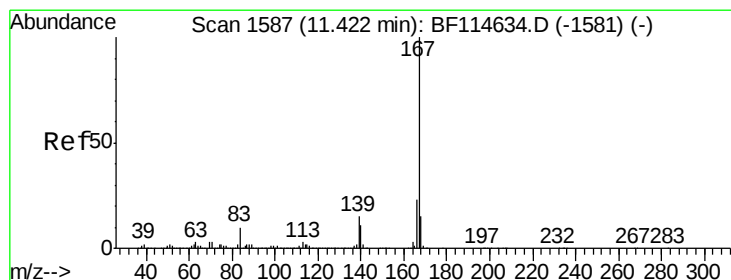
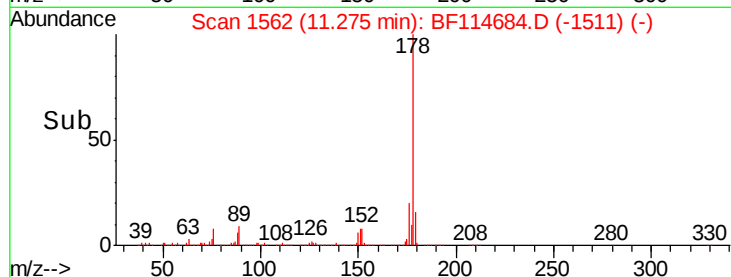
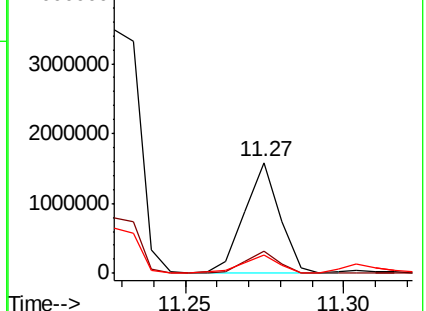
179 16.3 13.4 20.0



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



#73

Carbazole

Concen: 5.517 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

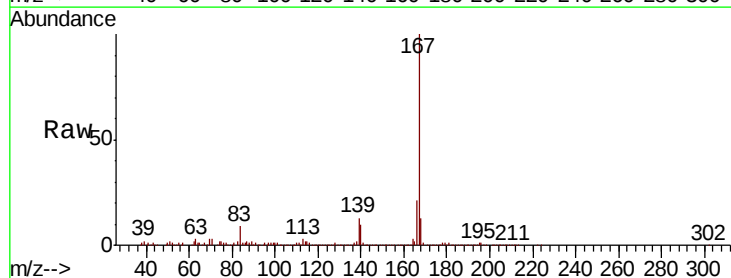
Tgt Ion:167 Resp: 283490

Ion Ratio Lower Upper

167 100

166 21.4 18.7 28.1

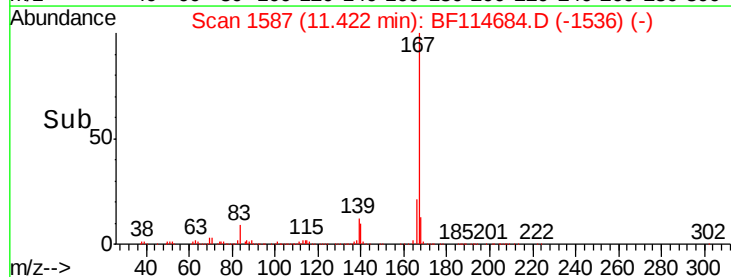
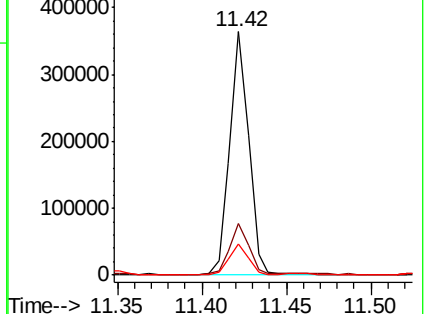
139 12.6 11.8 17.8

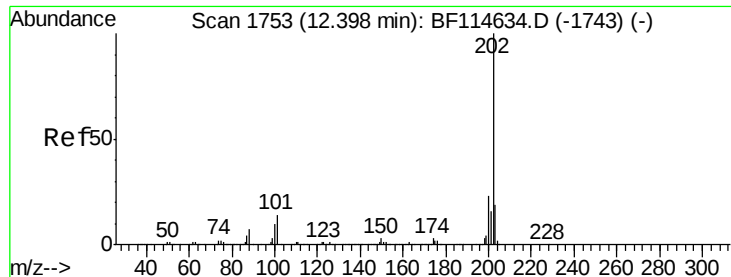


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 28.154 ng

RT: 12.40 min Scan# 1754

Delta R.T. 0.01 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

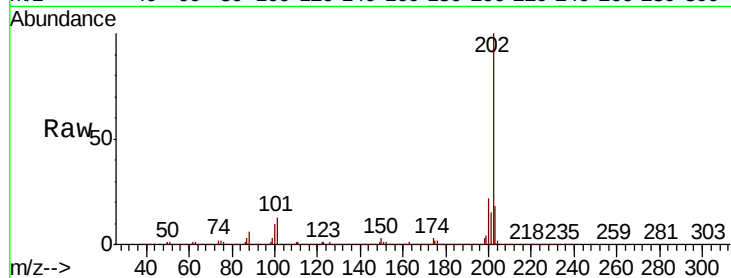
Tot Ion:202 Resp: 1684002

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.9

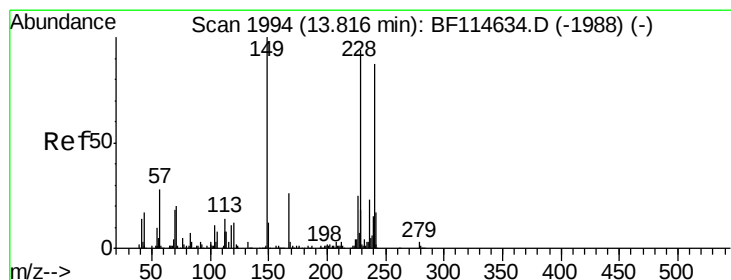
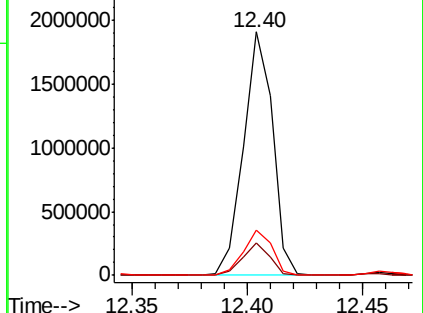
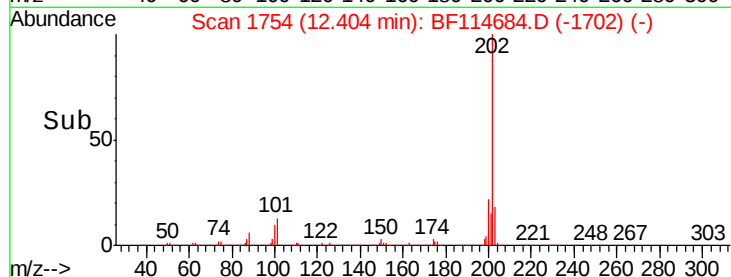
203 18.5 0.0 39.1



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: BF114684.D

Acq: 31 May 2019 2:05

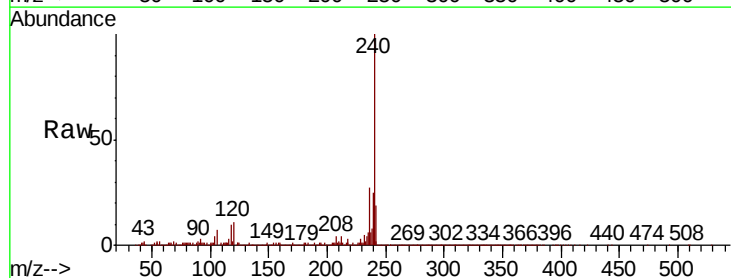
Tgt Ion:240 Resp: 744055

Ion Ratio Lower Upper

240 100

120 11.2 11.2 16.8#

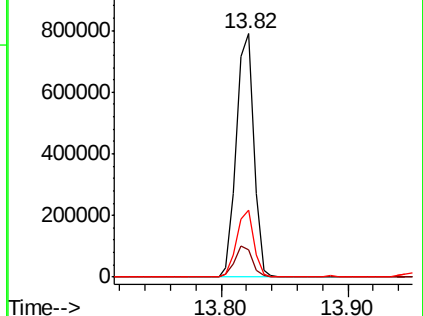
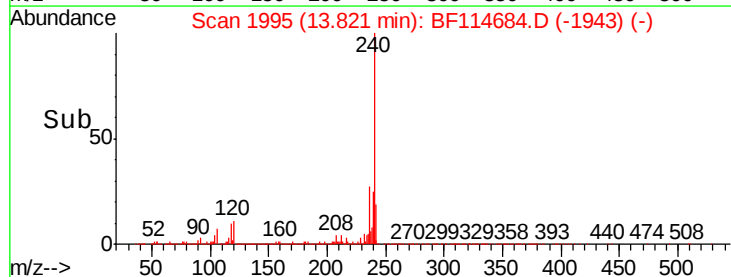
236 27.4 21.2 31.8

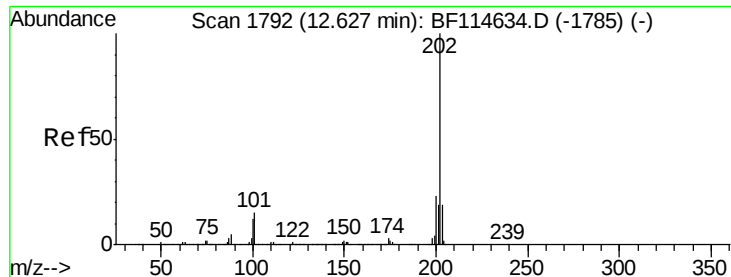


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

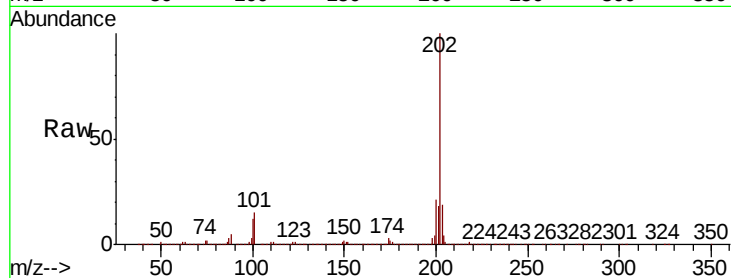




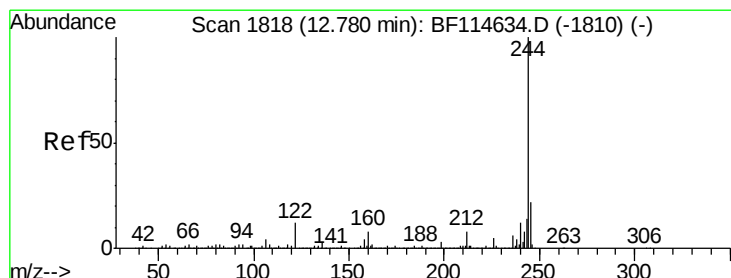
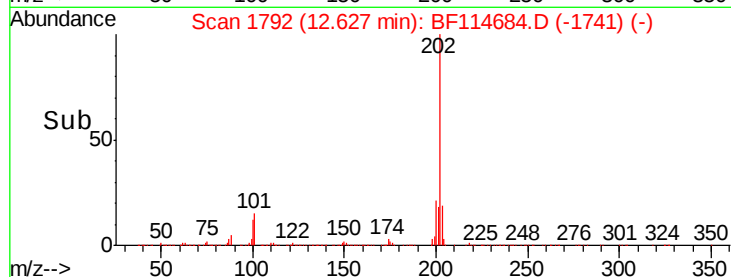
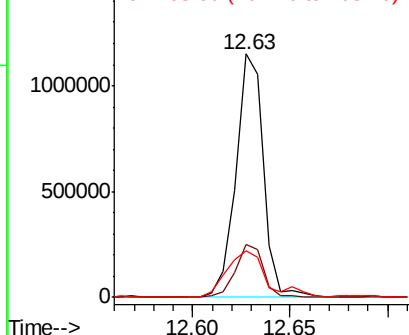
#78
Pvrene
Concen: 17.759 ng
RT: 12.63 min Scan# 1792
Delta R.T. 0.00 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

Instrument :
BNA_F
ClientSampleId :
TP-2-DDL

Tot Ion:202 Resp: 1117783
Ion Ratio Lower Upper
202 100
200 21.5 18.6 28.0
203 19.2 15.4 23.2

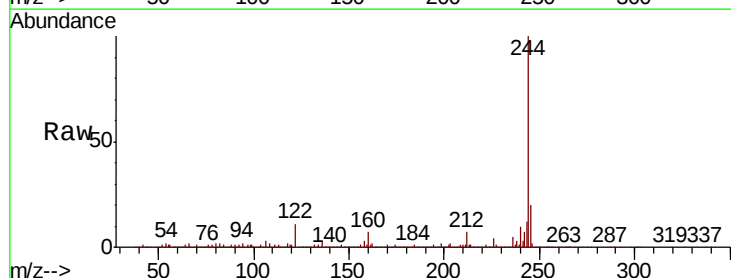


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

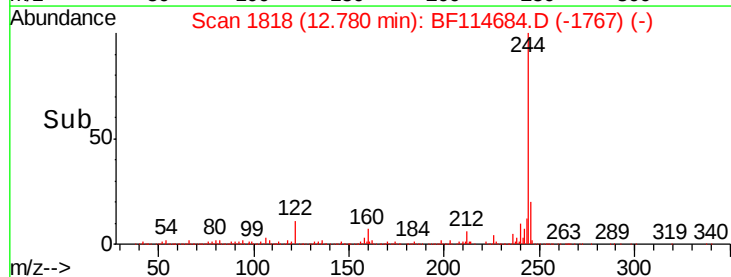
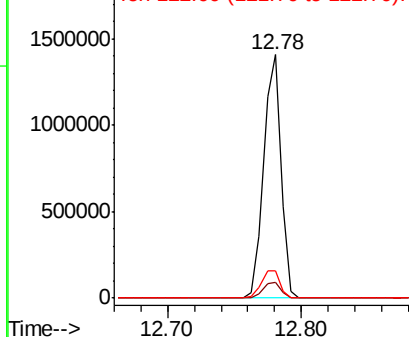


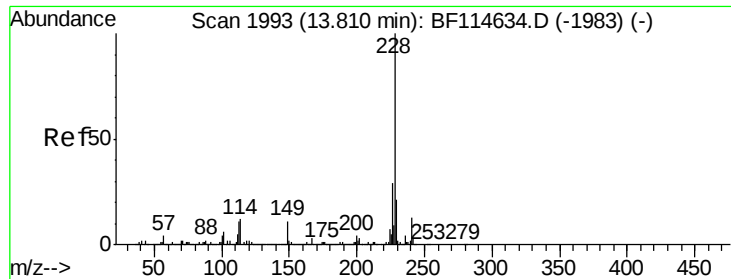
#79
Terphenyl-d14
Concen: 31.660 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.00 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

Tgt Ion:244 Resp: 1252902
Ion Ratio Lower Upper
244 100
212 6.5 6.1 9.1
122 11.0 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: 3.185 ng

RT: 13.81 min Scan# 1993

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

Instrument :

BNA_F

ClientSampleId :

TP-2-DDL

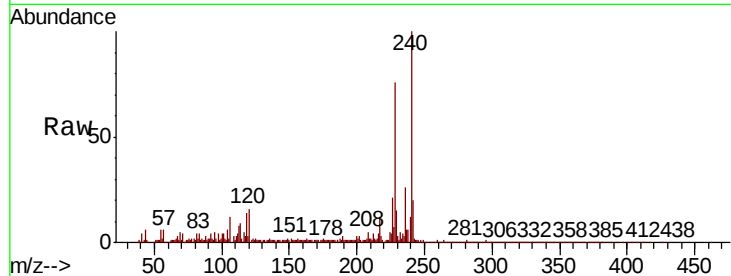
Tot Ion:228 Resp: 182131

Ion Ratio Lower Upper

228 100

226 28.1 23.0 34.6

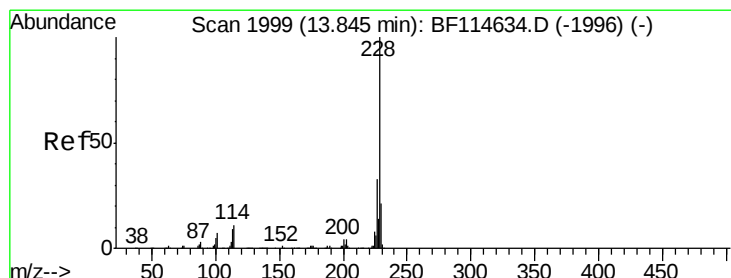
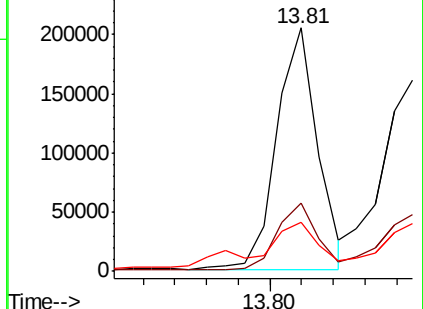
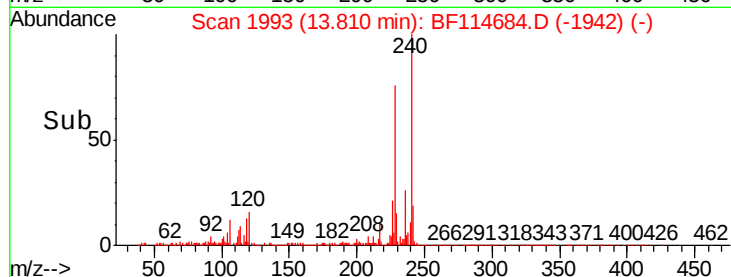
229 20.3 17.0 25.4



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: 2.923 ng

RT: 13.85 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BF114684.D

Acq: 31 May 2019 2:05

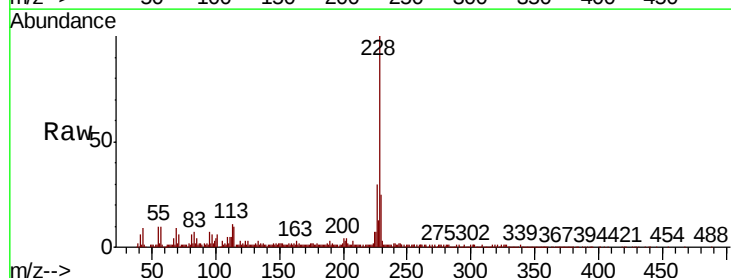
Tgt Ion:228 Resp: 159691

Ion Ratio Lower Upper

228 100

226 29.5 26.4 39.6

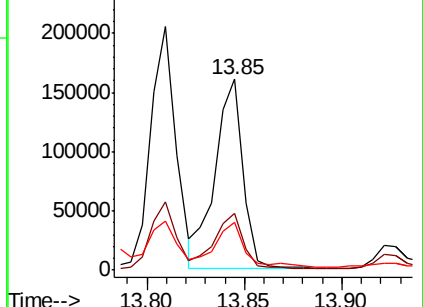
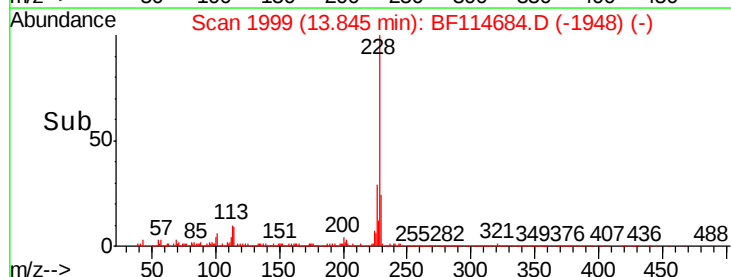
229 24.8 17.1 25.7

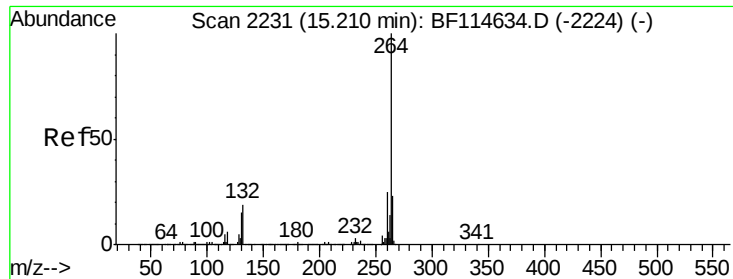


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

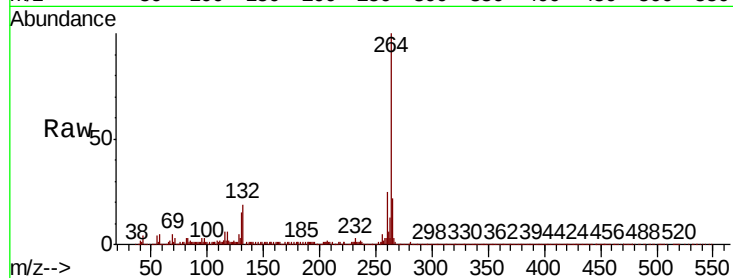




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BF114684.D
Acq: 31 May 2019 2:05

Instrument :
BNA_F
ClientSampleId :
TP-2-DDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.7	29.5
265	22.5	18.1	27.1



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

