

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
 Data File : BF120036.D
 Acq On : 16 Apr 2020 15:14
 Operator : MA/SJ
 Sample : L2230-59 5X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-11-19

Quant Time: Apr 17 01:22:37 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

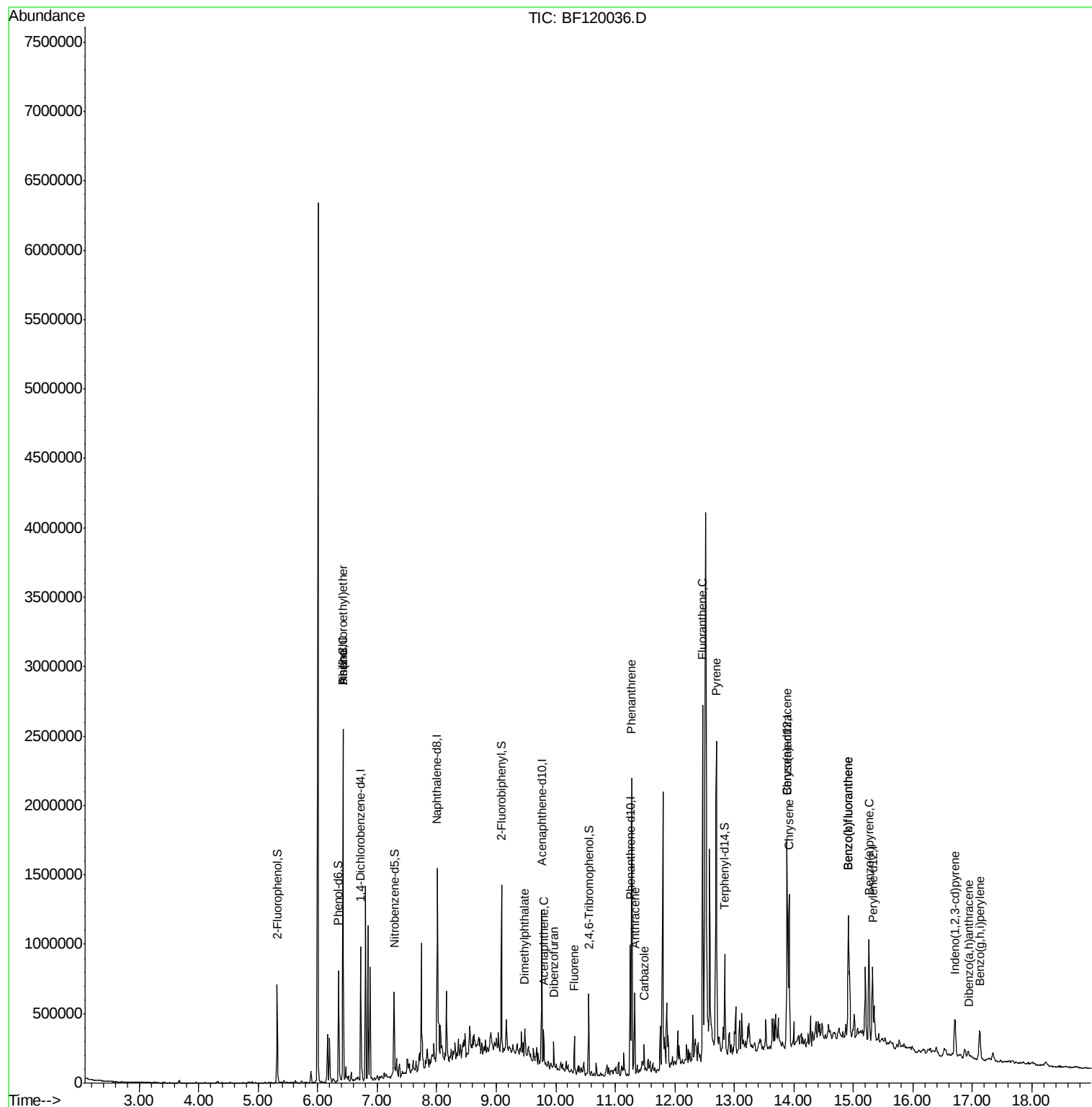
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	127825	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	510693	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	231090	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	332676	20.00	ng	0.00
76) Chrysene-d12	13.89	240	240052	20.00	ng	0.00
87) Perylene-d12	15.32	264	232875	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	195501	26.43	ng	0.00
7) Phenol-d6	6.35	99	238823	25.06	ng	-0.01
23) Nitrobenzene-d5	7.29	82	162744	16.49	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	48294	17.07	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	320656	19.70	ng	0.00
79) Terphenyl-d14	12.84	244	214812	15.06	ng	-0.01
Target Compounds						
6) Aniline	6.43	93	487027	38.933	ng	# 47
9) Benzaldehyde	6.17	77	14619	Below Cal		# 22
10) Phenol	6.43	94	64159	5.934	ng	# 61
11) bis(2-Chloroethyl)ether	6.43	93	487027	58.337	ng	# 17
50) Dimethylphthalate	9.49	163	55969	3.131	ng	# 96
52) Acenaphthene	9.80	154	46459	3.048	ng	# 96
55) Dibenzofuran	9.97	168	48416	2.315	ng	# 96
58) Fluorene	10.31	166	66821	3.994	ng	# 97
71) Phenanthrene	11.28	178	835324	47.179	ng	# 99
72) Anthracene	11.33	178	206730	11.430	ng	# 98
73) Carbazole	11.48	167	58603	3.426	ng	# 98
75) Fluoranthene	12.47	202	994180	52.041	ng	# 99
78) Pylene	12.70	202	933258	46.117	ng	# 99
81) Benzo(a)anthracene	13.89	228	486004	30.775	ng	# 99
83) Chrysene	13.92	228	446966	27.855	ng	# 98
86) Indeno(1,2,3-cd)pyrene	16.70	276	181354	12.821	ng	# 96
88) Benzo(b)fluoranthene	14.92	252	663660	39.616	ng	# 98
89) Benzo(k)fluoranthene	14.92	252	663660	45.914	ng	# 98
90) Benzo(a)pyrene	15.26	252	352670	25.038	ng	# 99
91) Dibenz(a,h)anthracene	16.93	278	37660	3.018	ng	# 96
92) Benzo(g,h,i)perylene	17.12	276	160013	12.992	ng	# 97

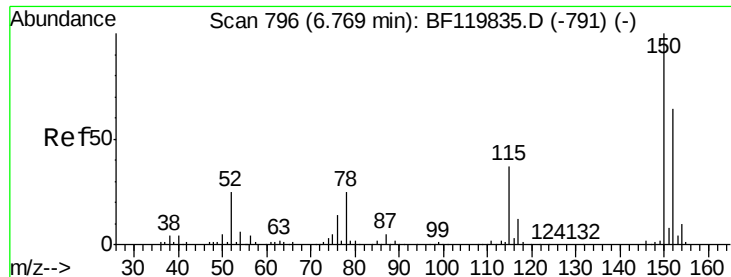
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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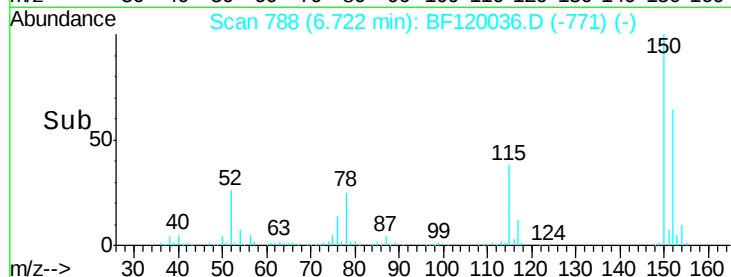
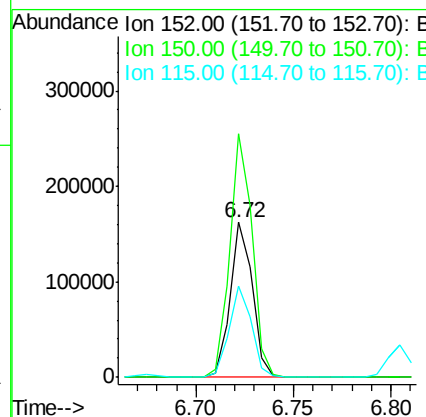
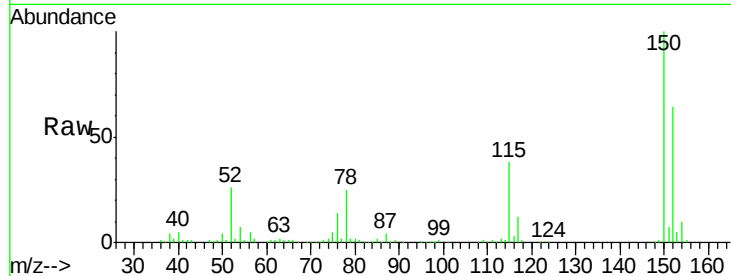


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Instrument :
BNA_F
ClientSampleId :
TP-11-19

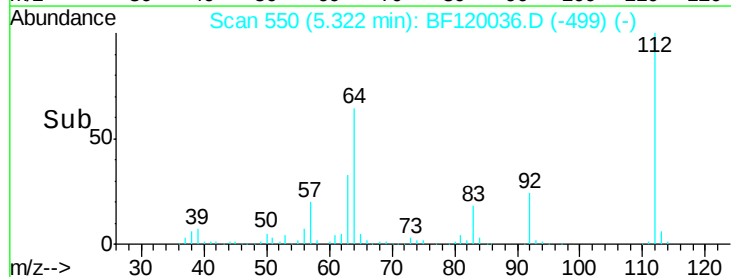
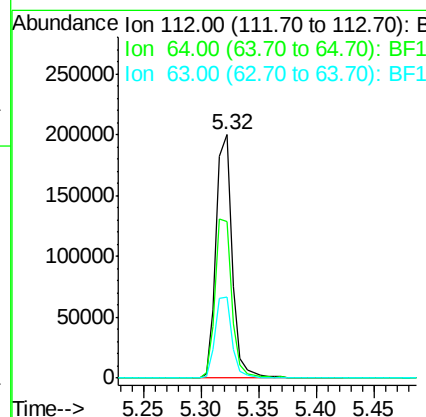
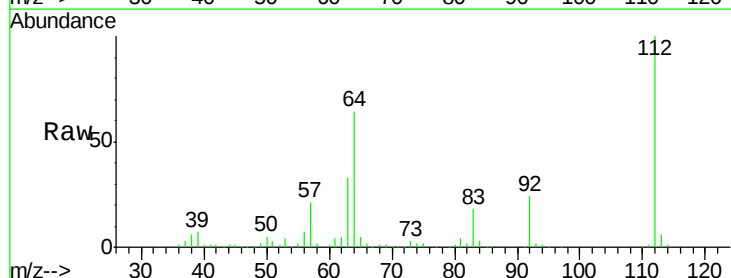
Tot Ion:152 Resp: 127825
Ion Ratio Lower Upper
152 100
150 156.9 124.8 187.2
115 59.0 46.5 69.7

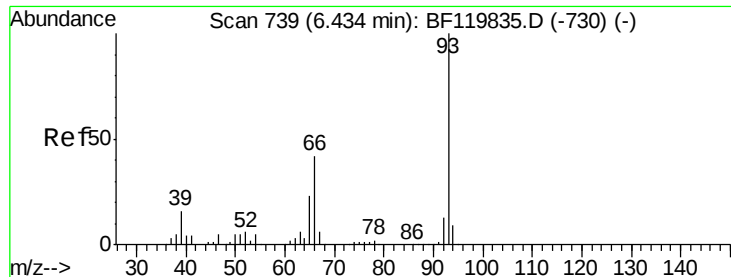


#5

2-Fluorophenol
Concen: 26.432 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion:112 Resp: 195501
Ion Ratio Lower Upper
112 100
64 64.2 55.5 83.3
63 33.3 29.1 43.7





#6

Aniline

Concen: 38.933 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.04 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampleId :

TP-11-19

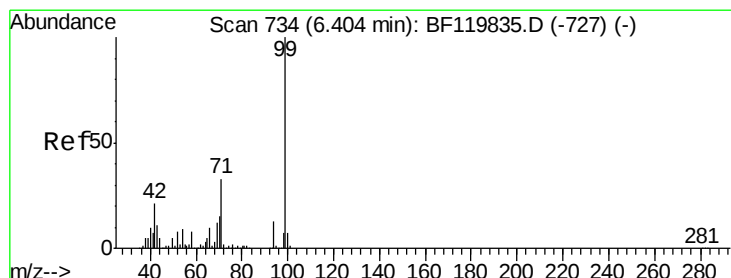
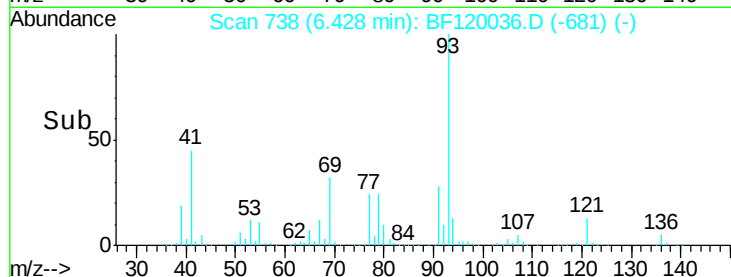
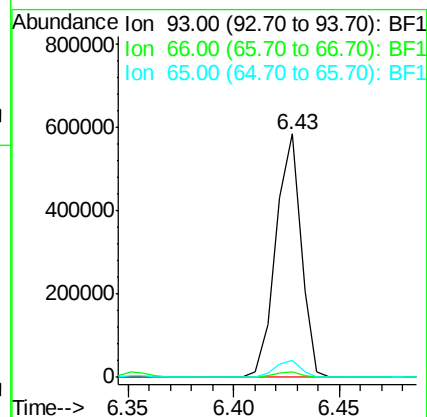
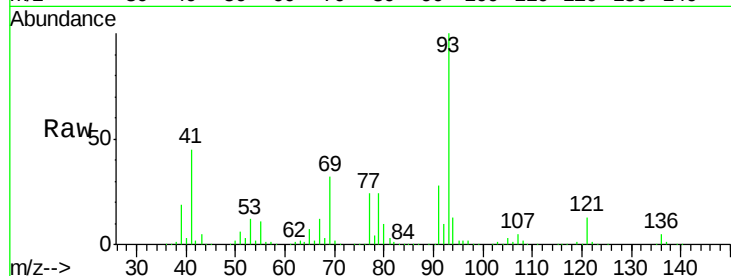
Tot Ion: 93 Resp: 487027

Ion Ratio Lower Upper

93 100

66 2.2 34.2 51.2#

65 6.8 18.3 27.5#



#7

Phenol-d6

Concen: 25.058 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

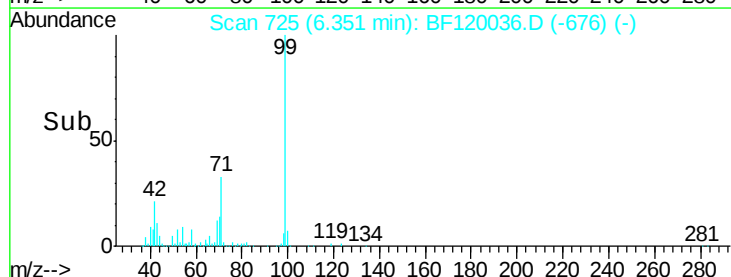
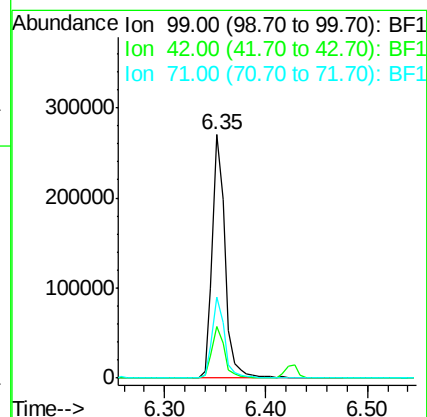
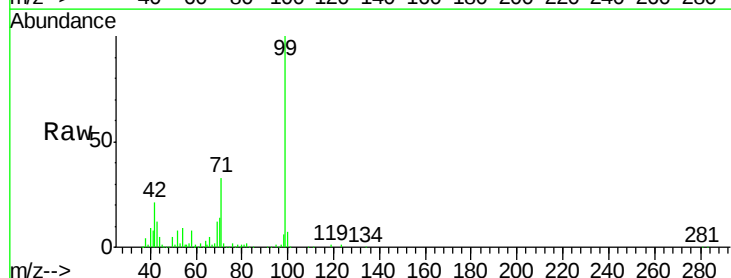
Tgt Ion: 99 Resp: 238823

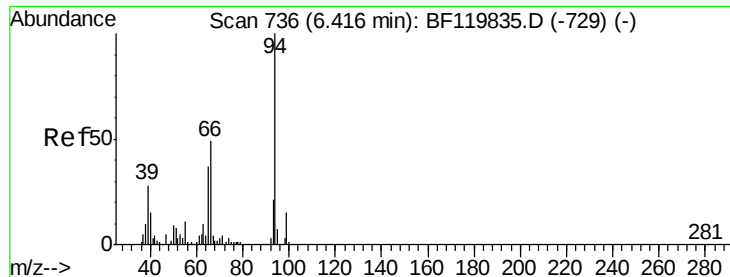
Ion Ratio Lower Upper

99 100

42 21.3 16.9 25.3

71 33.1 26.3 39.5





#10

Phenol

Concen: 5.934 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.05 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampled :

TP-11-19

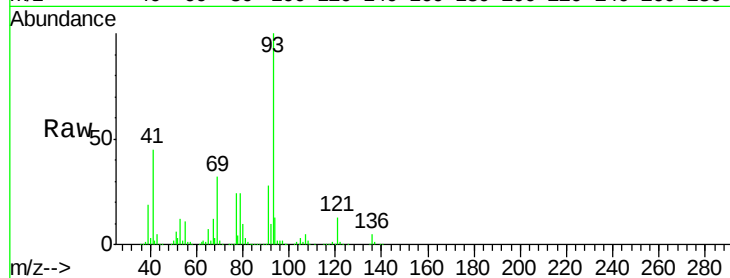
Tot Ion: 94 Resp: 64159

Ion Ratio Lower Upper

94 100

65 53.0 16.6 56.6

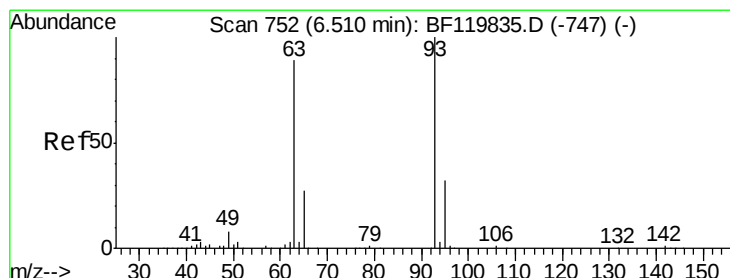
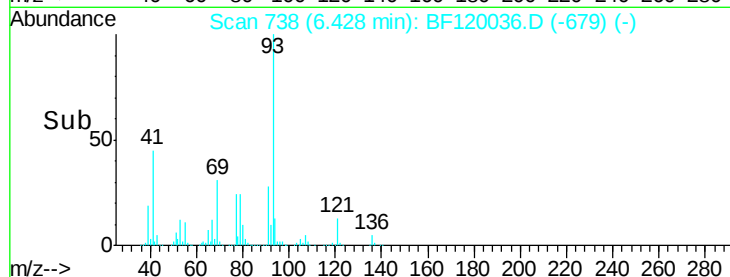
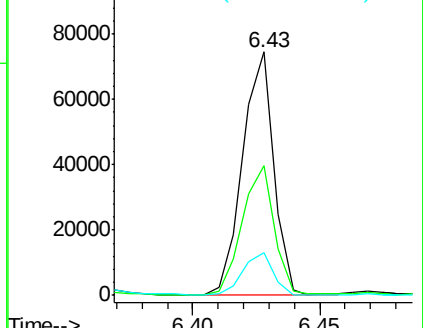
66 17.3 29.3 69.3#



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#11

bis(2-Chloroethyl)ether

Concen: 58.337 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.04 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

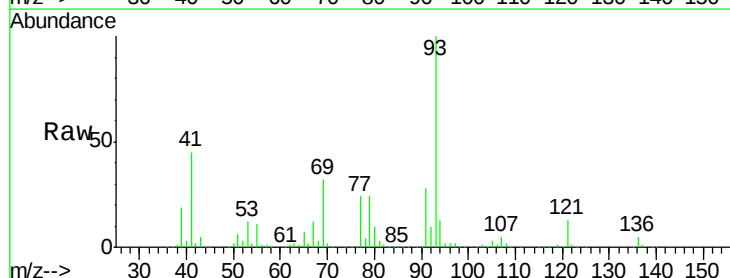
Tgt Ion: 93 Resp: 487027

Ion Ratio Lower Upper

93 100

63 2.0 69.1 109.1#

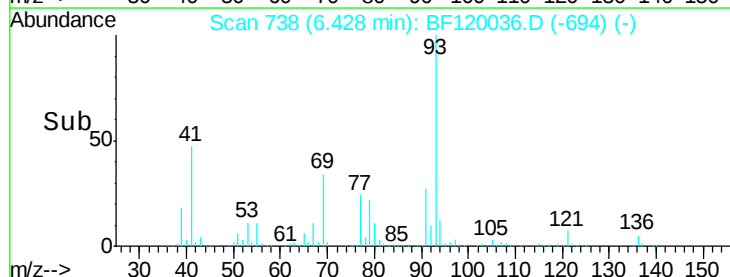
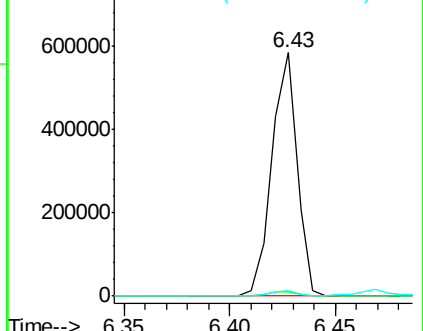
95 2.3 12.3 52.3#

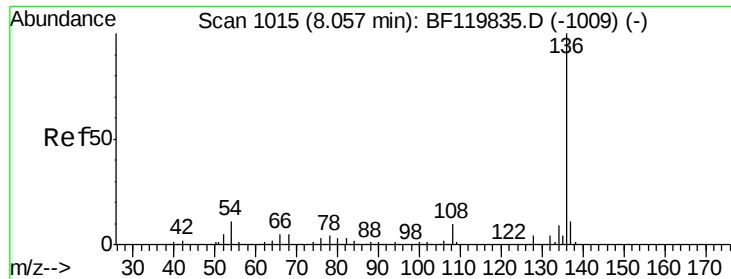


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

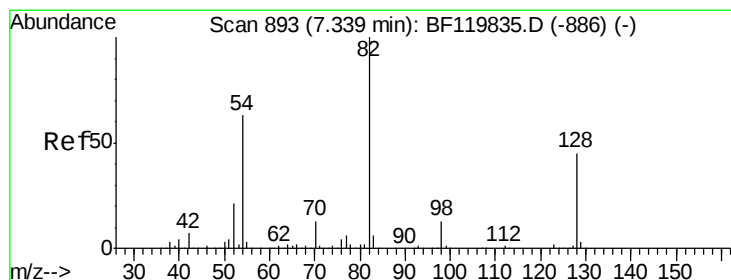
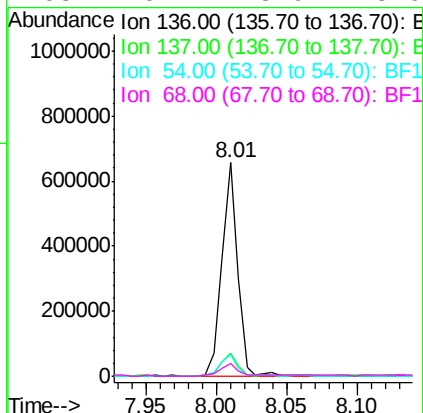
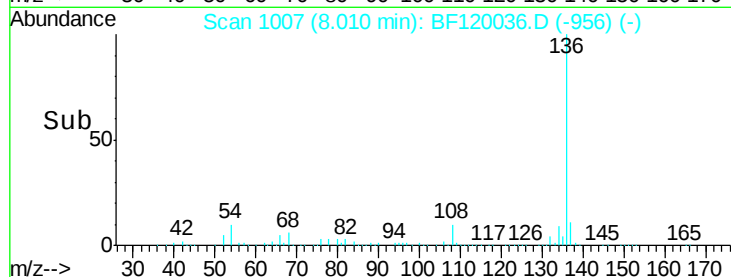
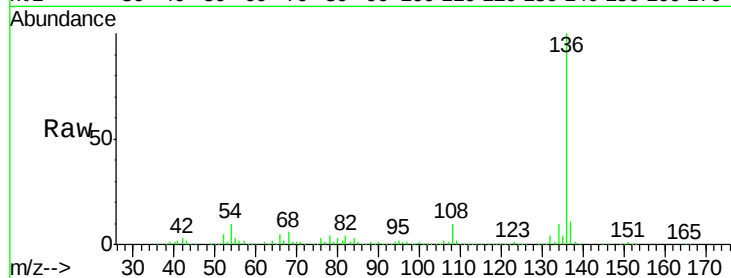




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

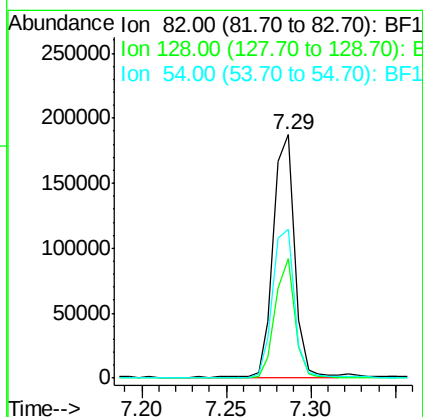
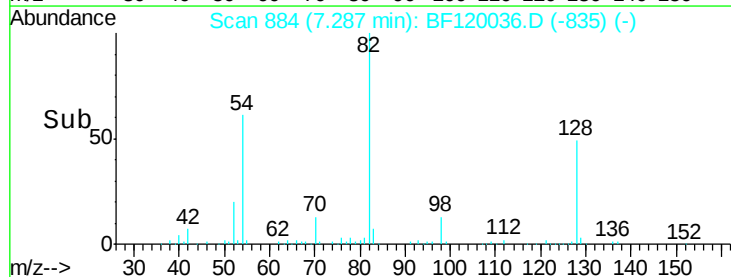
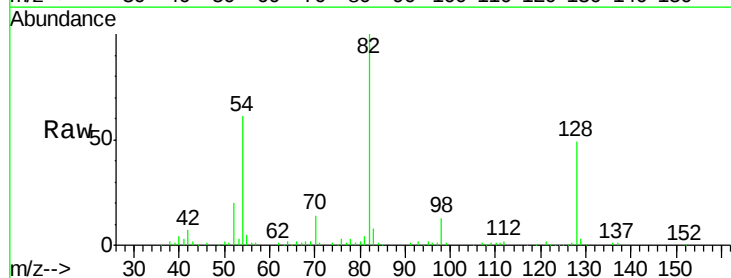
Instrument :
BNA_F
ClientSampleId :
TP-11-19

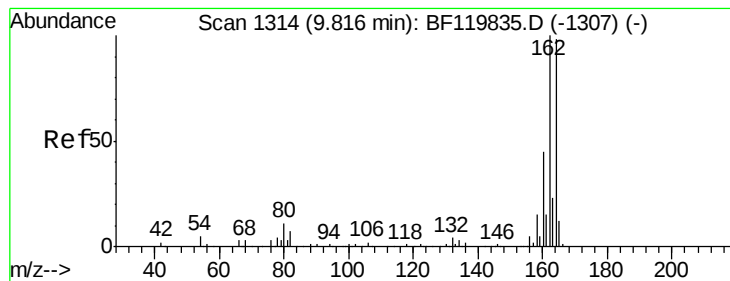
Tot Ion:136	Resp:	510693
Ion	Ratio	Lower Upper
136	100	
137	10.7	8.7 13.1
54	10.3	8.5 12.7
68	6.1	3.9 5.9#



#23
Nitrobenzene-d5
Concen: 16.486 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion: 82	Resp:	162744
Ion	Ratio	Lower Upper
82	100	
128	49.0	36.2 54.4
54	61.2	50.4 75.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.00 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampleId :

TP-11-19

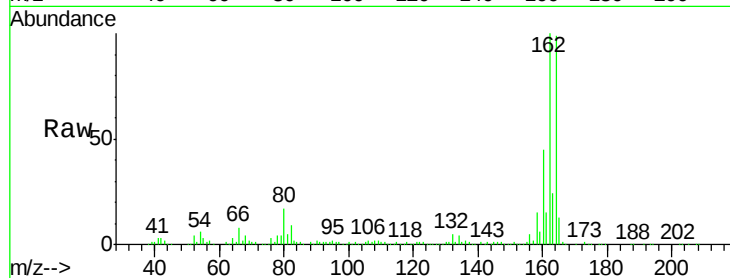
Tot Ion:164 Resp: 231090

Ion Ratio Lower Upper

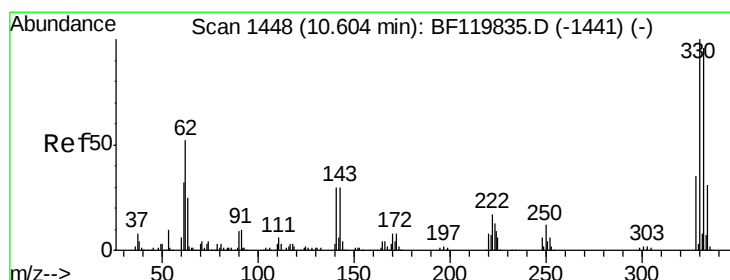
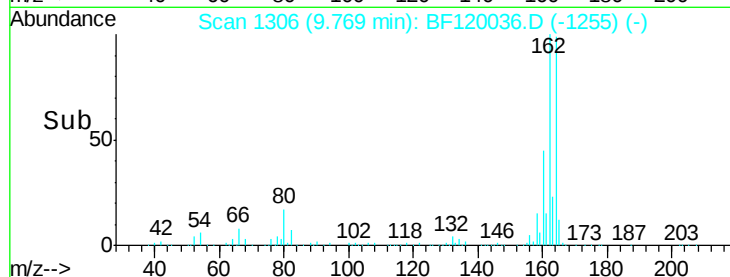
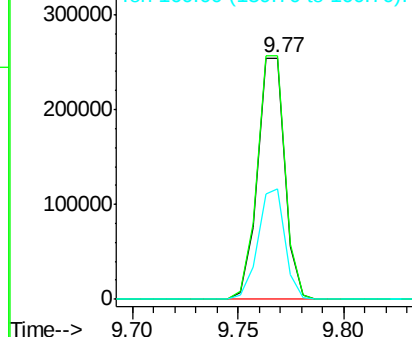
164 100

162 100.8 81.9 122.9

160 45.6 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: 17.069 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

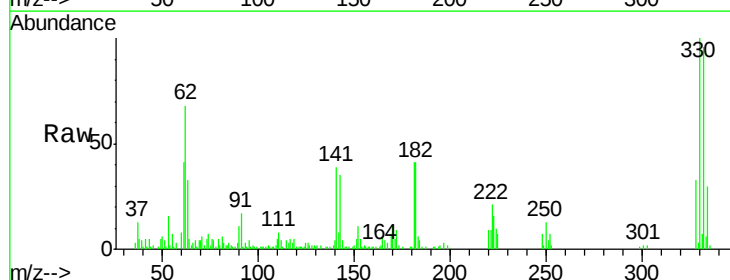
Tgt Ion:330 Resp: 48294

Ion Ratio Lower Upper

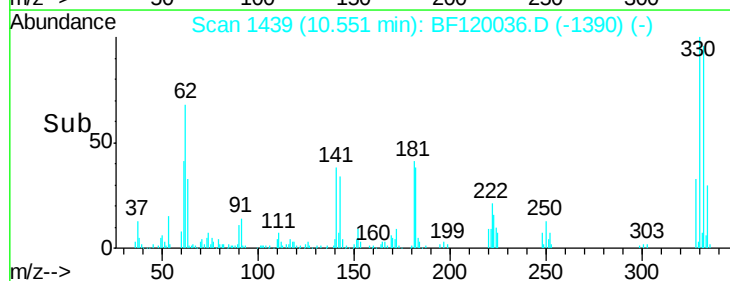
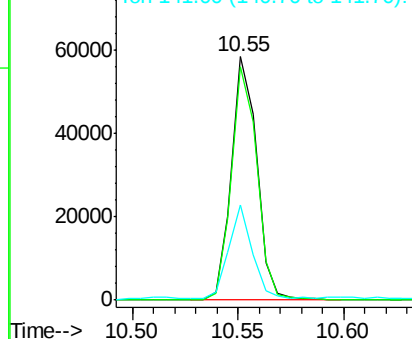
330 100

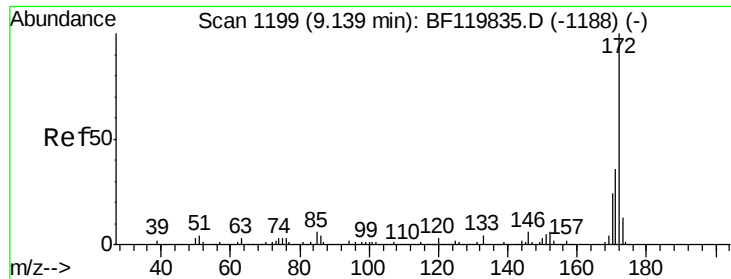
332 96.7 76.8 115.2

141 35.9 25.1 37.7



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

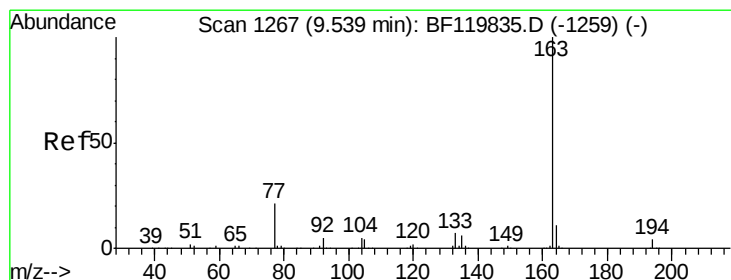
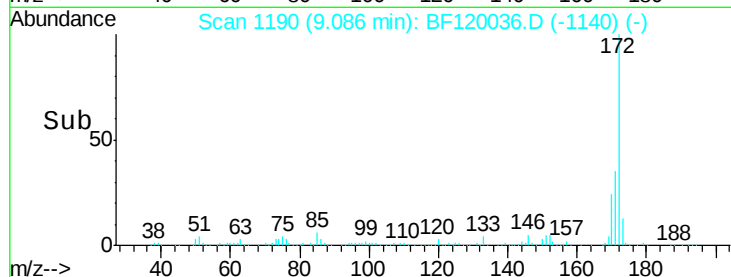
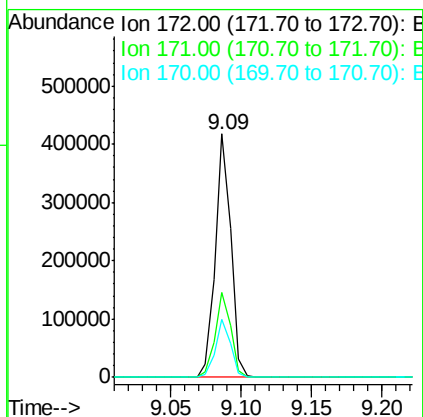
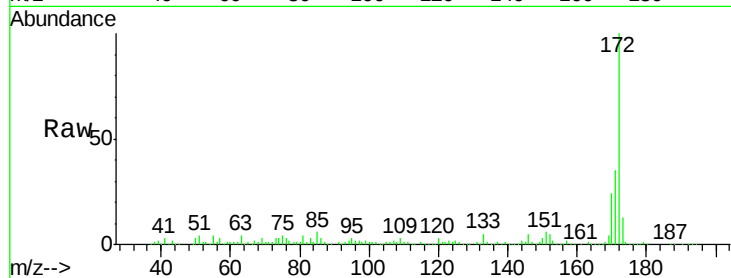




#45
2-Fluorobiphenyl
Concen: 19.701 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

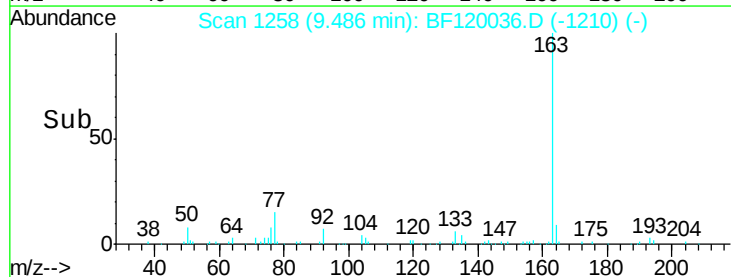
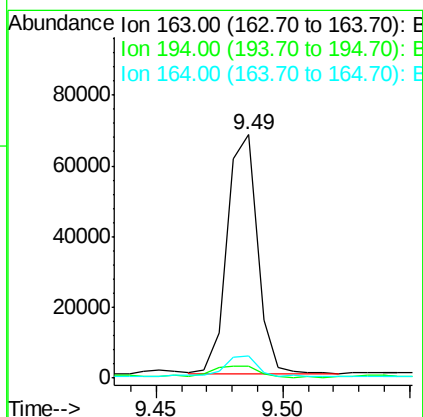
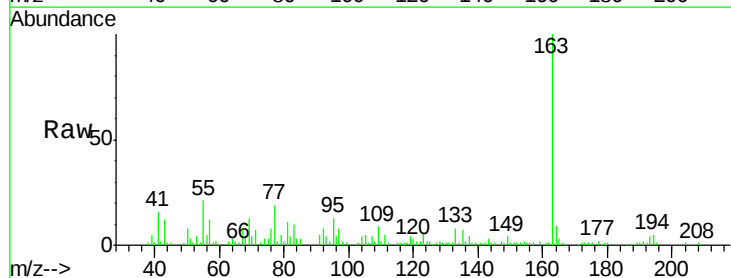
Instrument :
BNA_F
ClientSampled :
TP-11-19

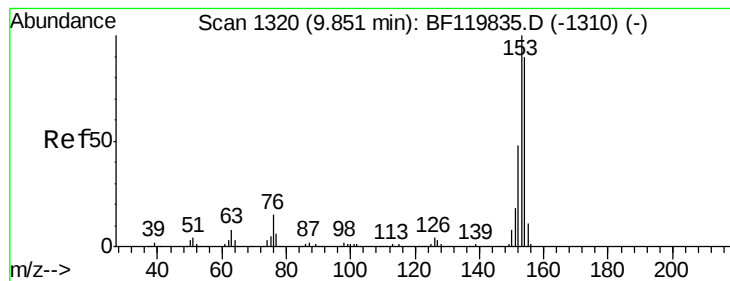
Tot Ion:172 Resp: 320656
Ion Ratio Lower Upper
172 100
171 34.8 28.9 43.3
170 23.7 19.4 29.2



#50
Dimethylphthalate
Concen: 3.131 ng
RT: 9.49 min Scan# 1258
Delta R.T. -0.02 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion:163 Resp: 55969
Ion Ratio Lower Upper
163 100
194 4.7 3.0 4.4#
164 9.1 8.4 12.6





#52

Acenaphthene

Concen: 3.048 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampleId :

TP-11-19

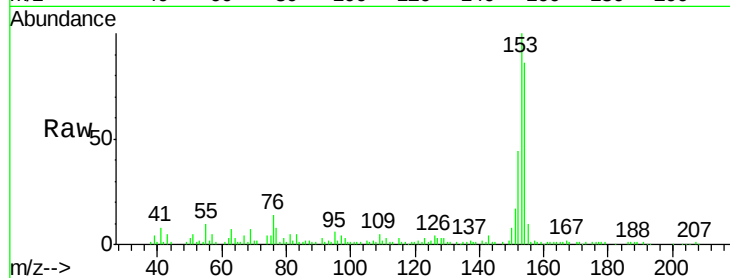
Tot Ion:154 Resp: 46459

Ion Ratio Lower Upper

154 100

153 116.7 88.8 133.2

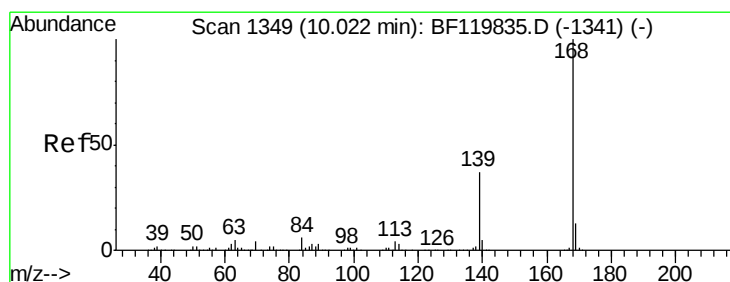
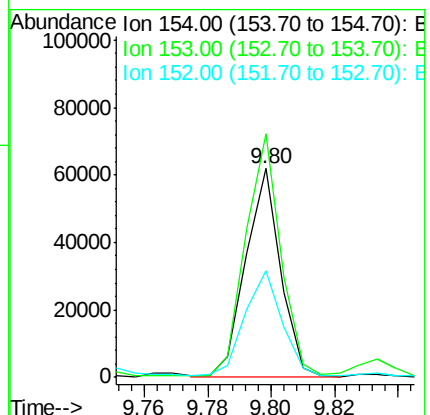
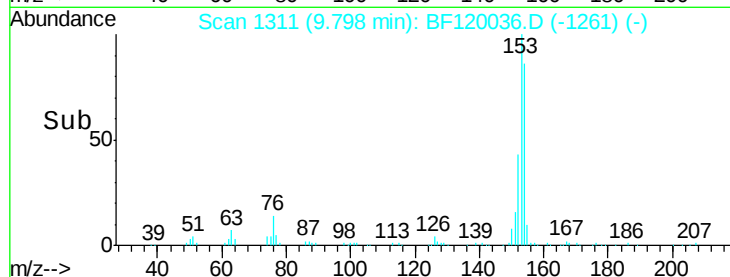
152 51.3 42.4 63.6



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

Dibenzofuran

Concen: 2.315 ng

RT: 9.97 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

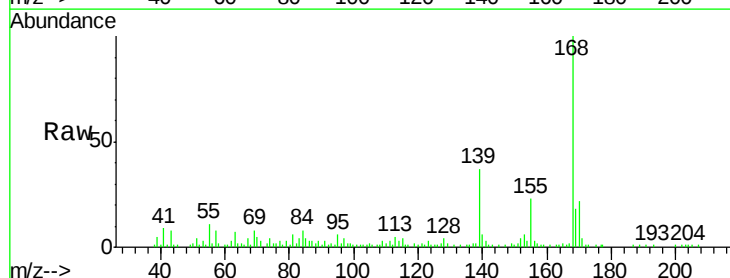
Tgt Ion:168 Resp: 48416

Ion Ratio Lower Upper

168 100

139 36.8 29.8 44.6

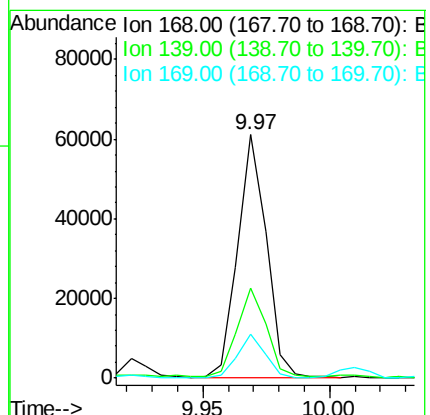
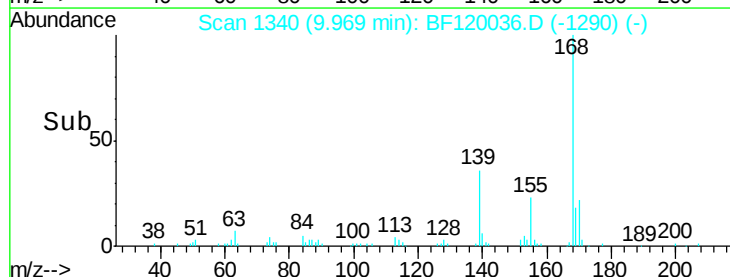
169 17.9 10.6 15.8#

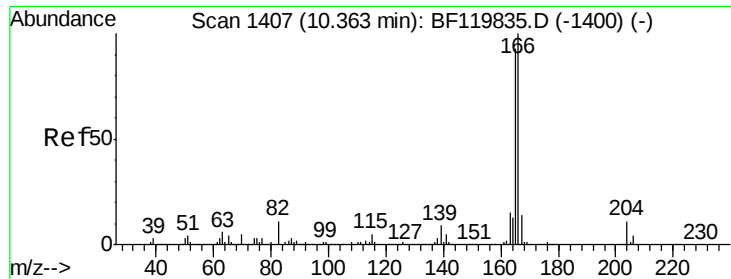


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

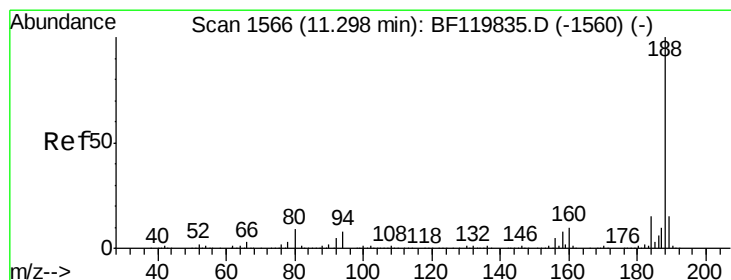
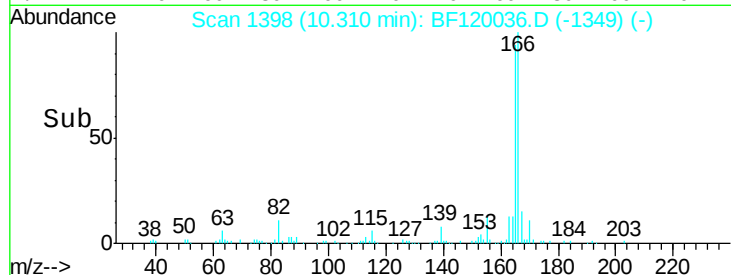
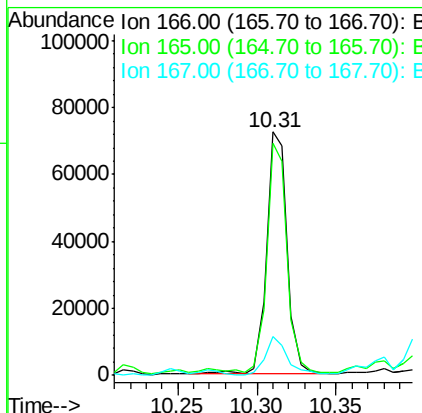
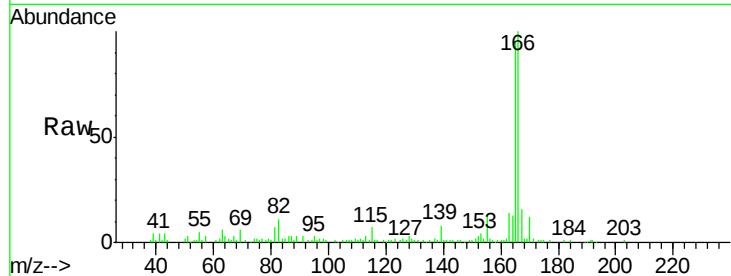




#58
 Fluorene
 Concen: 3.994 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

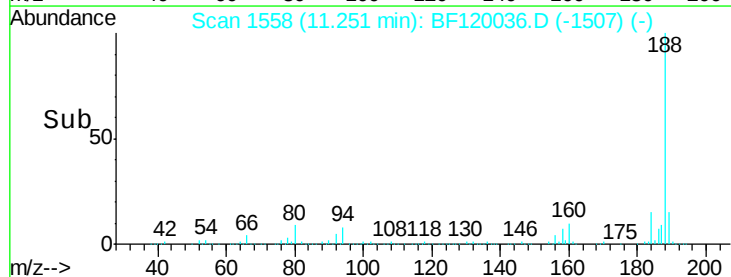
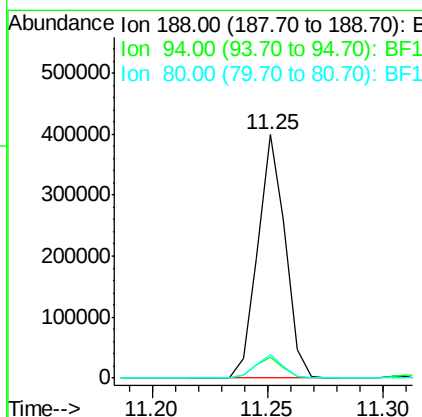
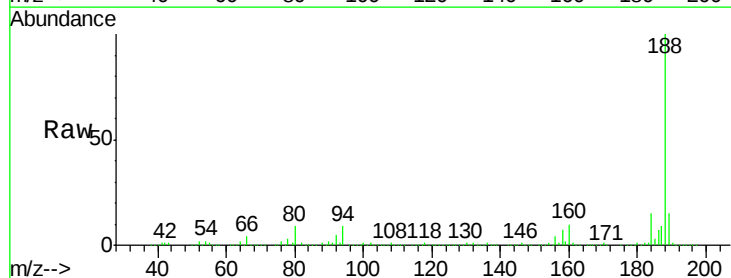
Instrument :
 BNA_F
 ClientSampleId :
 TP-11-19

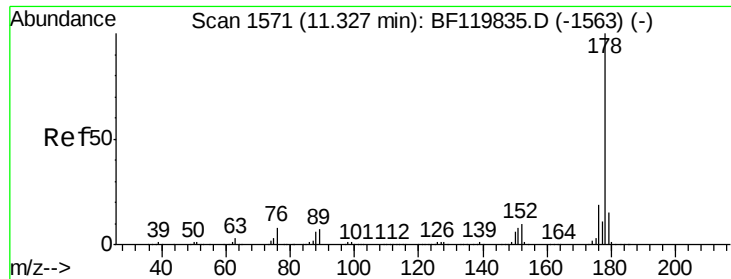
Tot Ion:166 Resp: 66821
 Ion Ratio Lower Upper
 166 100
 165 95.3 74.2 111.2
 167 16.2 10.8 16.2



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

Tgt Ion:188 Resp: 332676
 Ion Ratio Lower Upper
 188 100
 94 8.7 6.7 10.1
 80 9.4 7.4 11.2

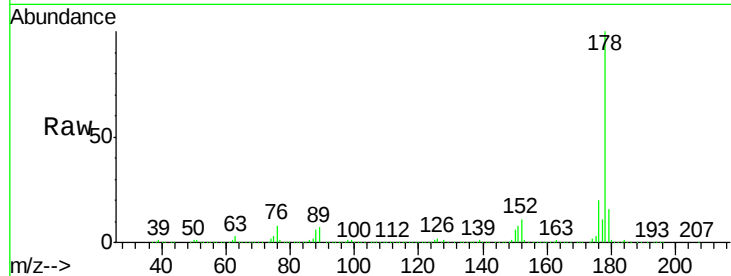




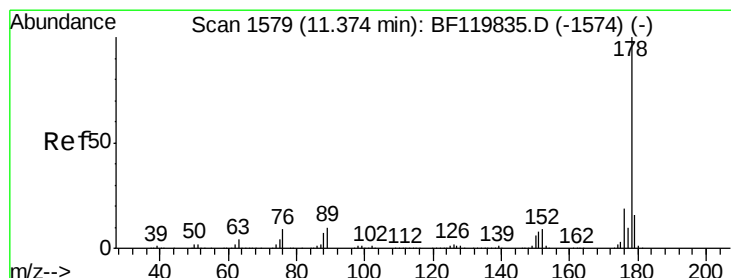
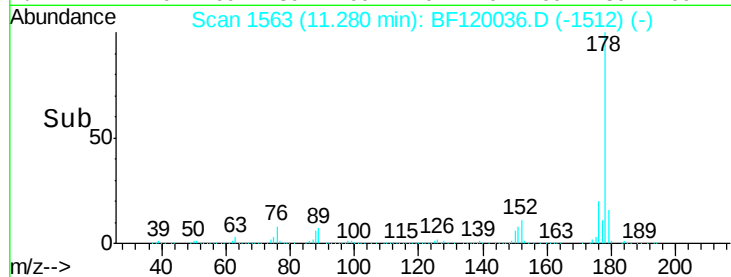
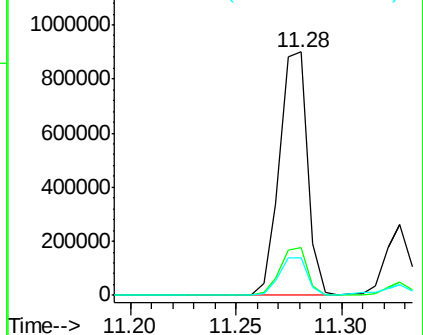
#71
Phenanthrene
Concen: 47.179 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.00 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Instrument :
BNA_F
ClientSampleId :
TP-11-19

Tot Ion:178 Resp: 835324
Ion Ratio Lower Upper
178 100
176 19.8 15.1 22.7
179 15.6 12.2 18.4

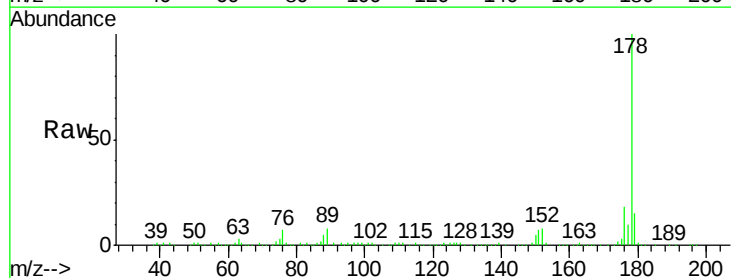


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

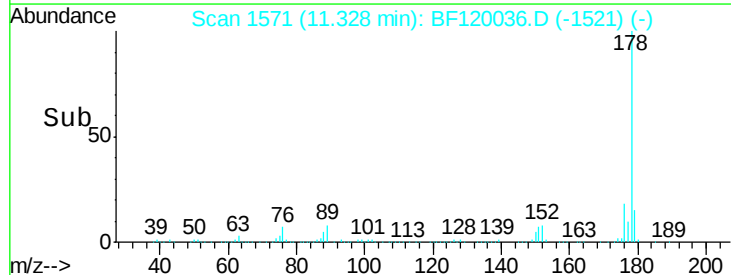
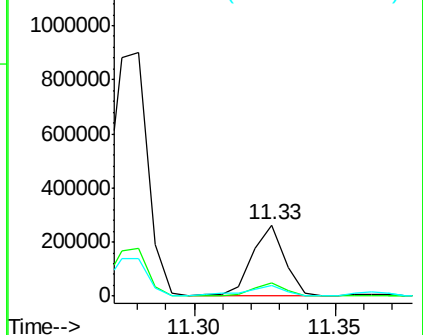


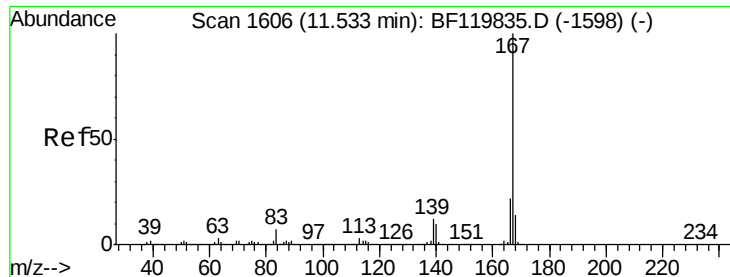
#72
Anthracene
Concen: 11.430 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion:178 Resp: 206730
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.2
179 15.2 12.8 19.2



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

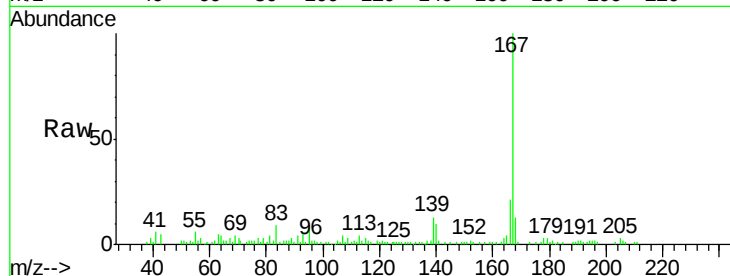




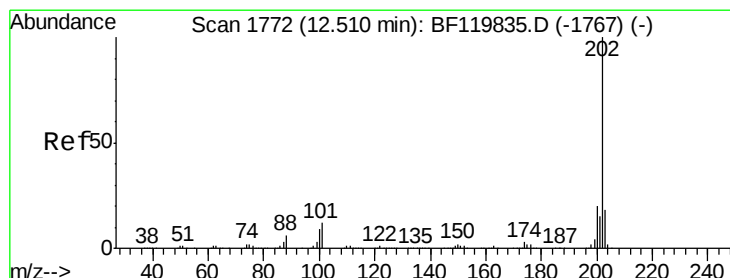
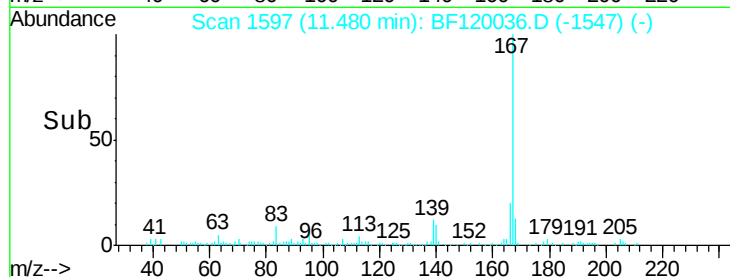
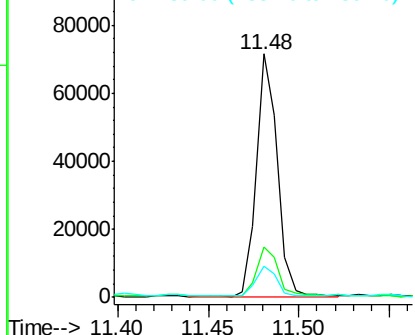
#73
 Carbazole
 Concen: 3.426 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

Instrument :
 BNA_F
 ClientSampleId :
 TP-11-19

Tot Ion:167 Resp: 58603
 Ion Ratio Lower Upper
 167 100
 166 20.7 17.4 26.0
 139 12.8 9.8 14.8

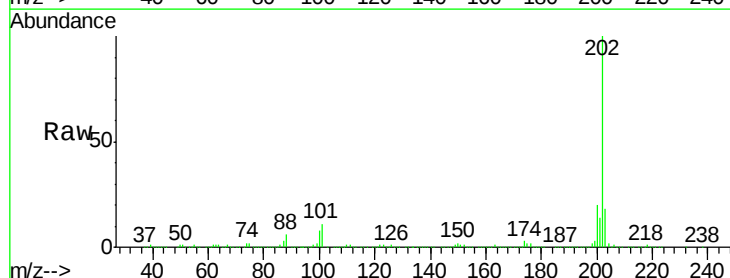


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

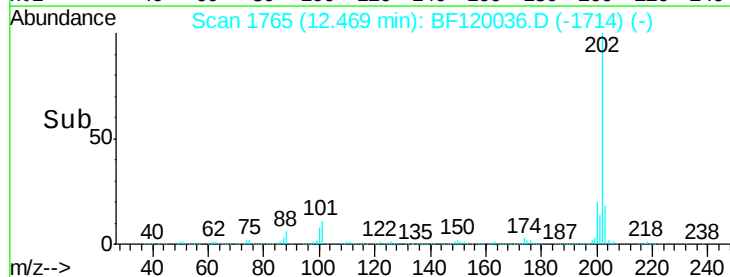
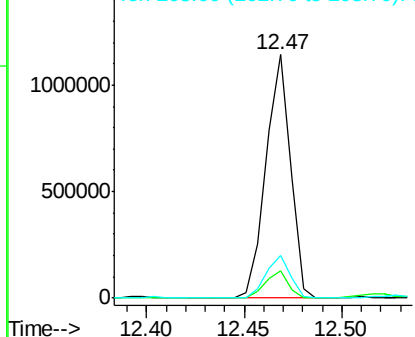


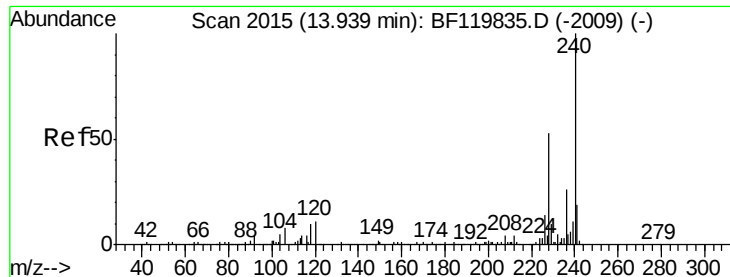
#75
 Fluoranthene
 Concen: 52.041 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.00 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

Tgt Ion:202 Resp: 994180
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 32.3
 203 17.7 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

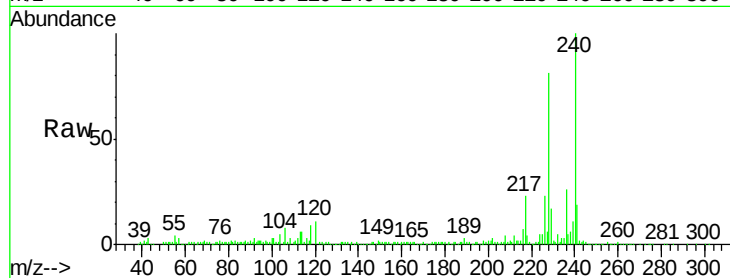




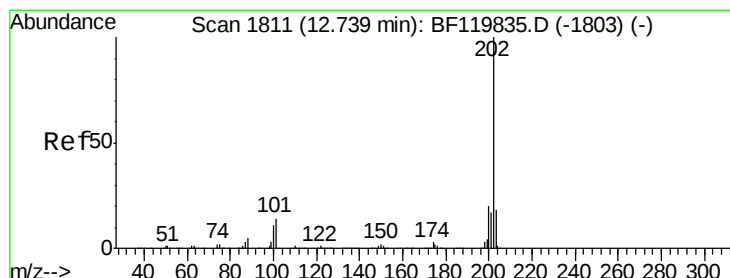
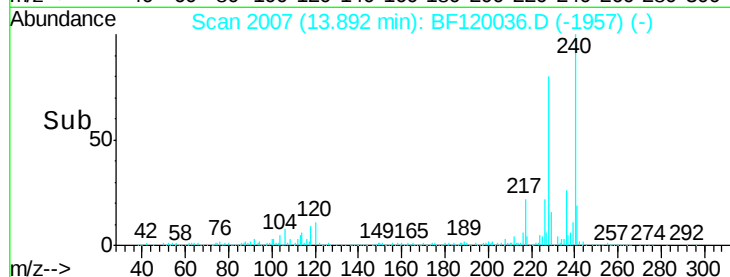
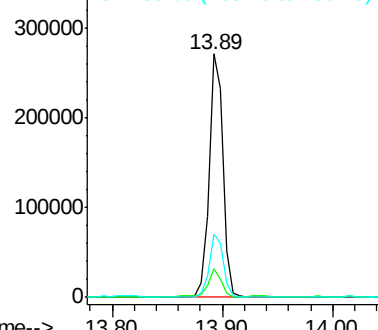
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. -0.01 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

Instrument :
 BNA_F
 ClientSampleId :
 TP-11-19

Tot Ion:240 Resp: 240052
 Ion Ratio Lower Upper
 240 100
 120 11.5 9.0 13.6
 236 25.7 20.7 31.1

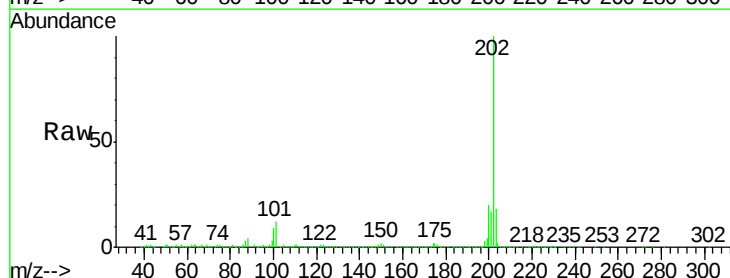


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

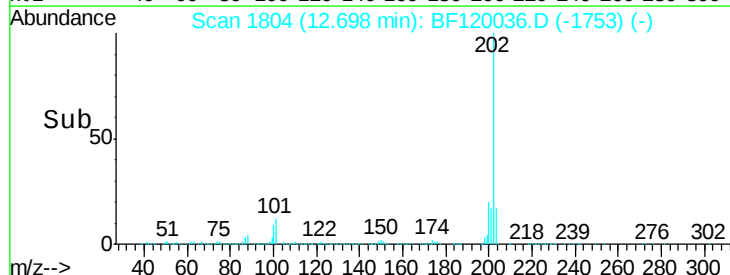
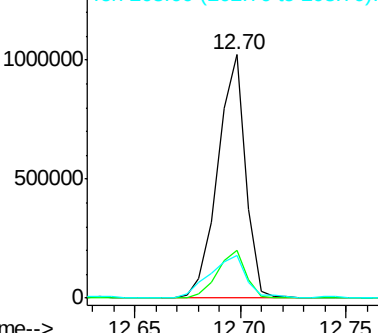


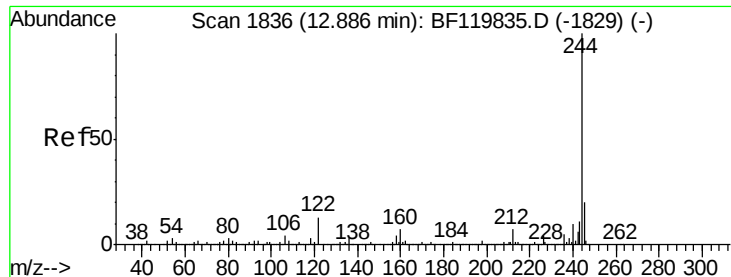
#78
 Pyrene
 Concen: 46.117 ng
 RT: 12.70 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: BF120036.D
 Acq: 16 Apr 2020 15:14

Tgt Ion:202 Resp: 933258
 Ion Ratio Lower Upper
 202 100
 200 19.8 16.2 24.2
 203 17.6 14.1 21.1



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: 15.057 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampleId :

TP-11-19

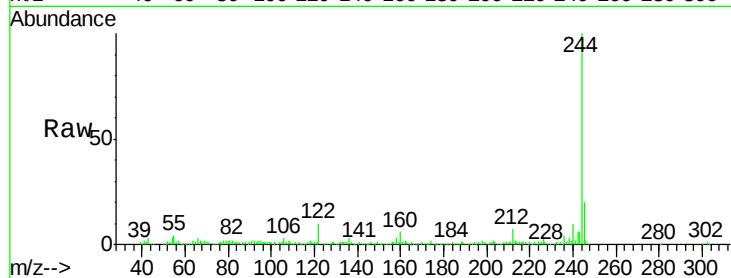
Tot Ion:244 Resp: 214812

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

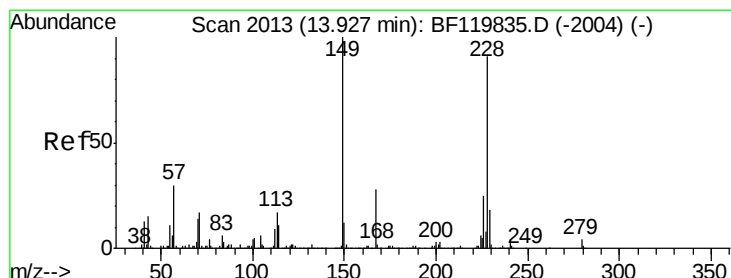
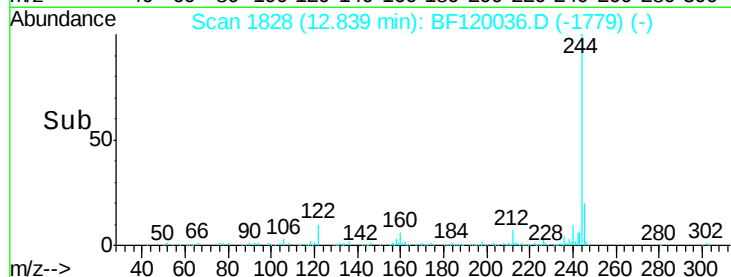
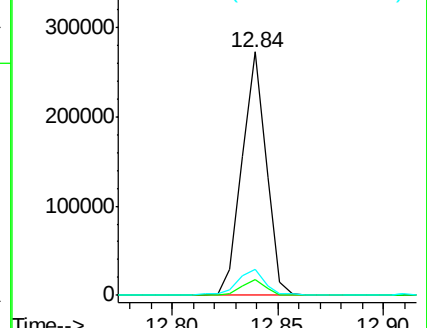
122 10.5 10.3 15.5



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: 30.775 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.00 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

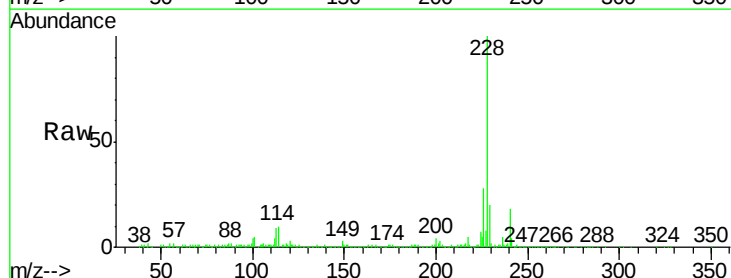
Tgt Ion:228 Resp: 486004

Ion Ratio Lower Upper

228 100

226 27.6 21.9 32.9

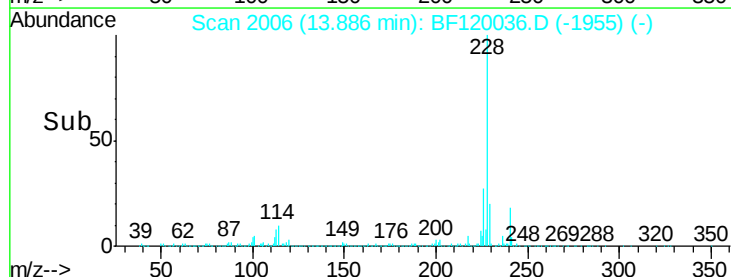
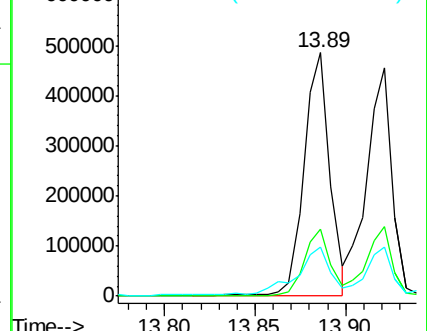
229 20.4 15.9 23.9

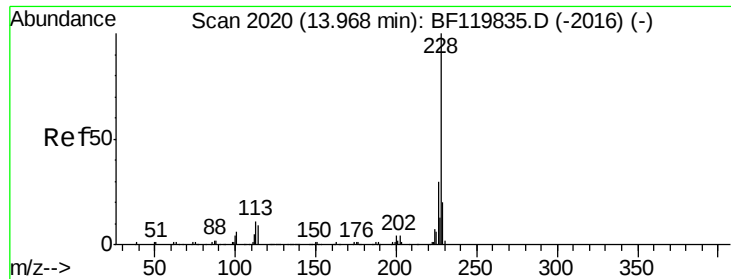


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

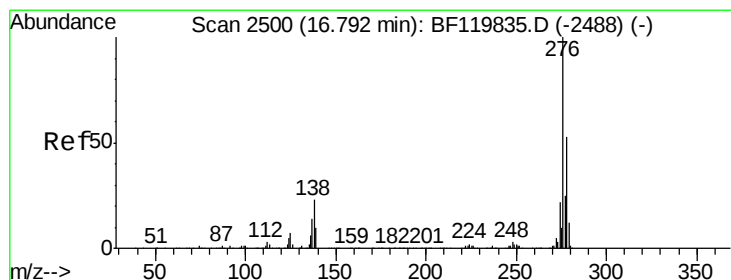
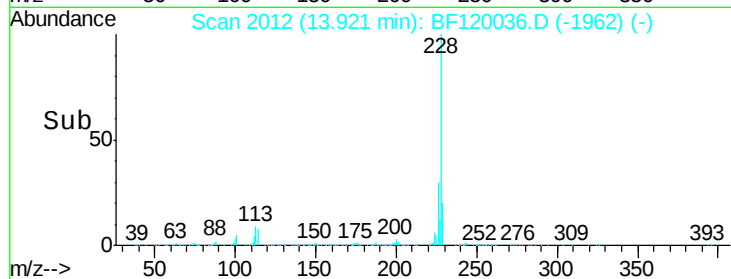
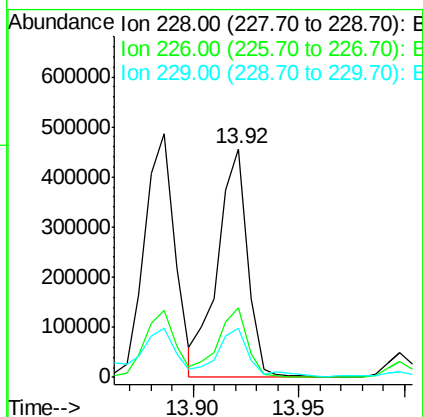
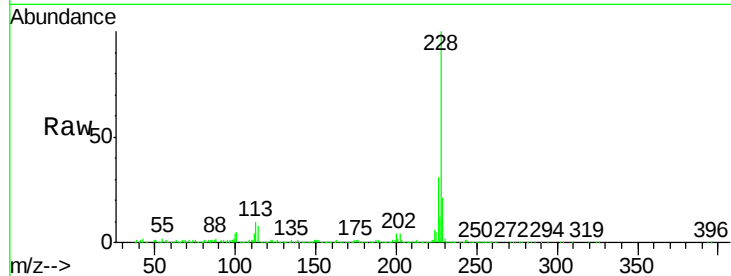




#83
Chrysene
Concen: 27.855 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

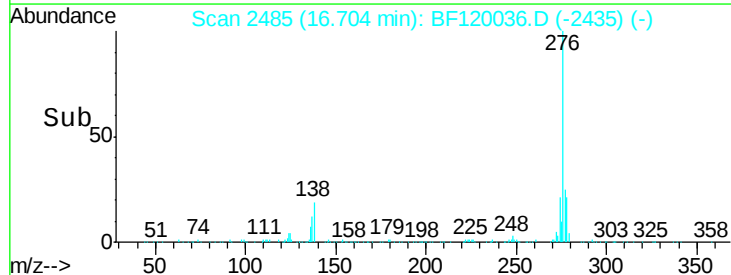
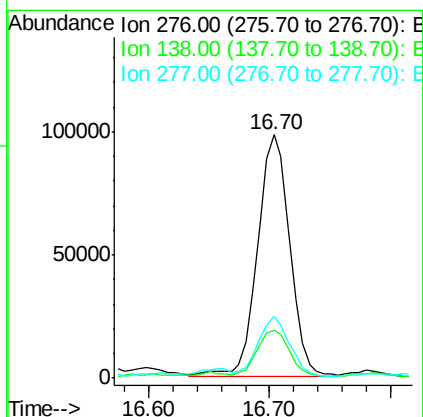
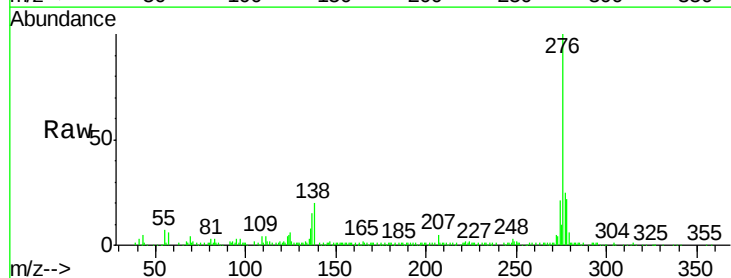
Instrument :
BNA_F
ClientSampleId :
TP-11-19

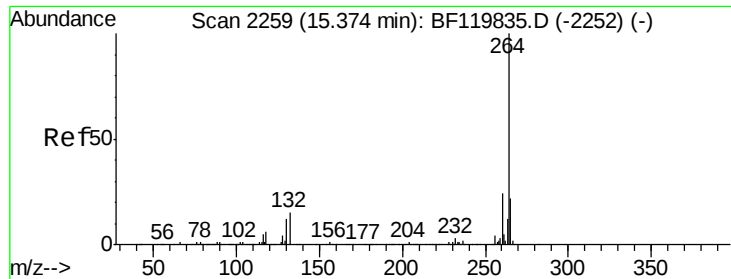
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.2	36.2
229	21.2	15.9	23.9



#86
Indeno(1,2,3-cd)pyrene
Concen: 12.821 ng
RT: 16.70 min Scan# 2485
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.8	18.0	27.0
277	23.8	20.1	30.1





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.32 min Scan# 2250

Delta R.T. 0.00 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

Instrument :

BNA_F

ClientSampleId :

TP-11-19

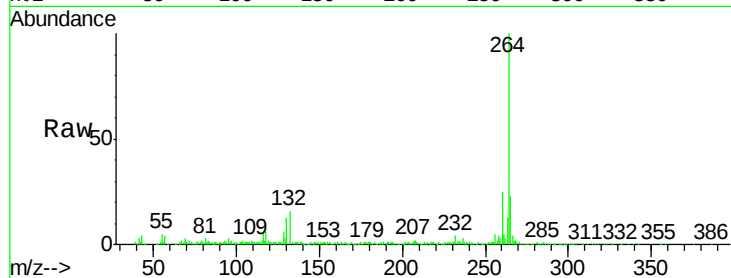
Tot Ion:264 Resp: 232875

Ion Ratio Lower Upper

264 100

260 24.9 19.3 28.9

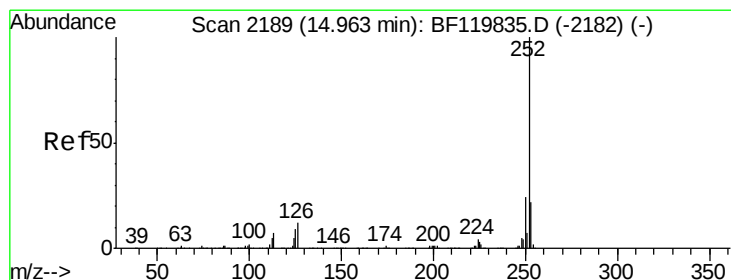
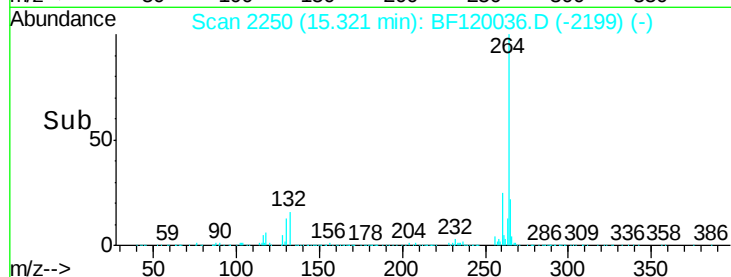
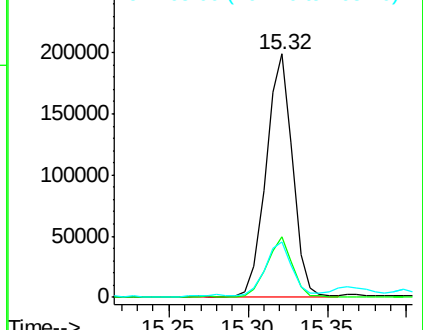
265 22.6 17.6 26.4



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: 39.616 ng

RT: 14.92 min Scan# 2181

Delta R.T. 0.00 min

Lab File: BF120036.D

Acq: 16 Apr 2020 15:14

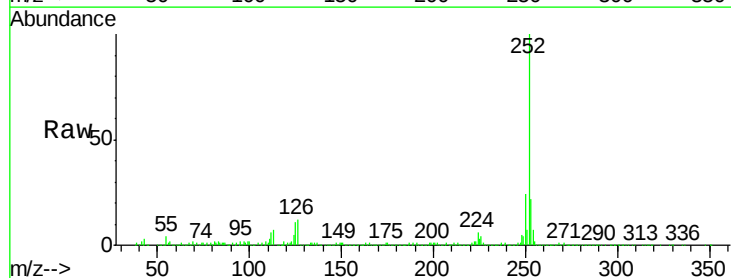
Tgt Ion:252 Resp: 663660

Ion Ratio Lower Upper

252 100

253 21.6 17.7 26.5

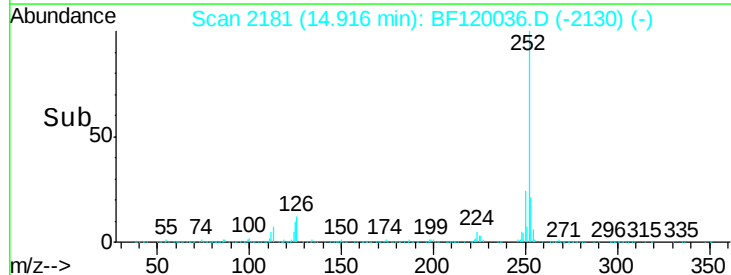
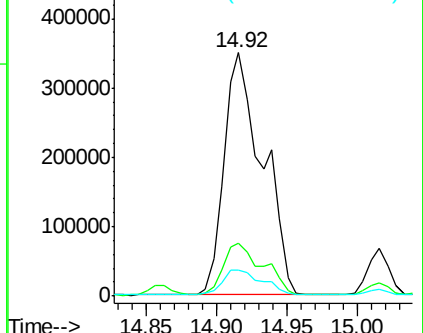
125 10.6 7.4 11.2

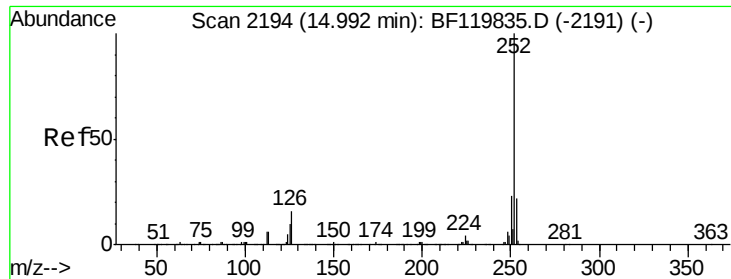


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

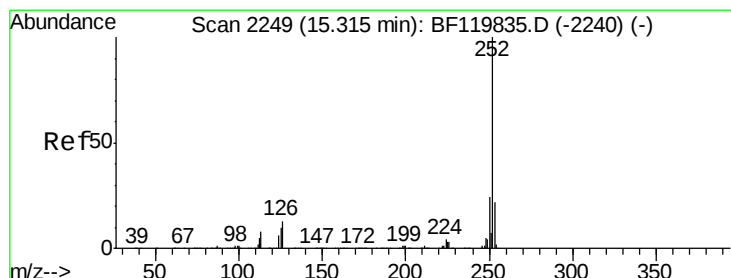
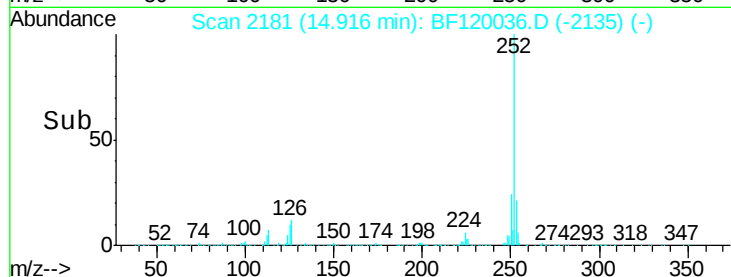
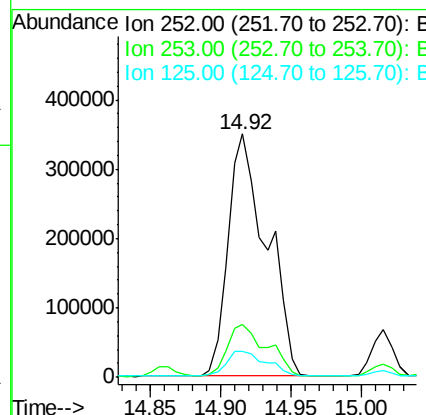
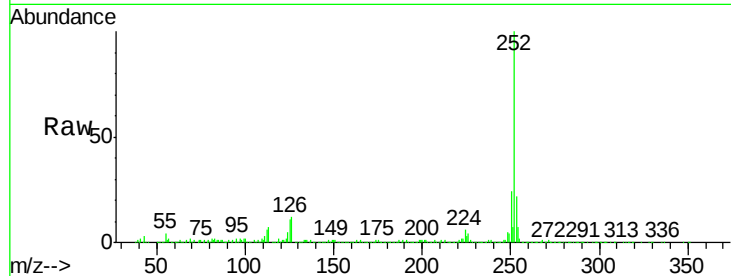




#89
Benzo(k)fluoranthene
Concen: 45.914 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.03 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

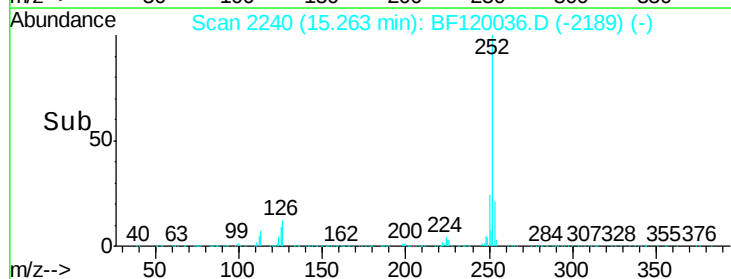
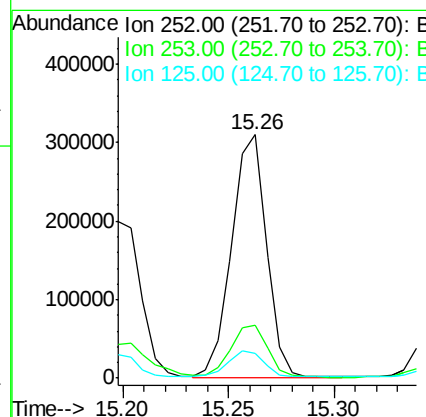
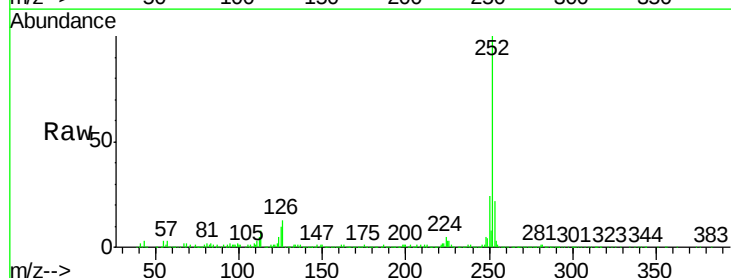
Instrument :
BNA_F
ClientSampleId :
TP-11-19

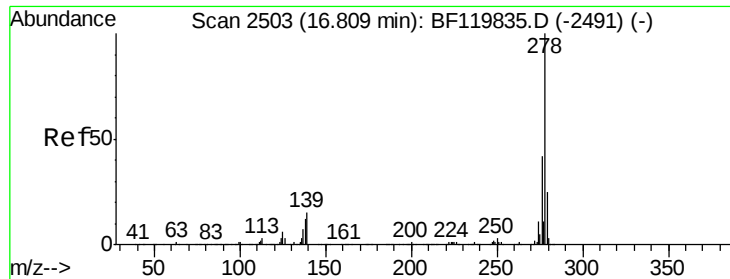
Tot Ion:252 Resp: 663660
Ion Ratio Lower Upper
252 100
253 21.6 17.8 26.8
125 10.6 7.7 11.5



#90
Benzo(a)pyrene
Concen: 25.038 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.00 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion:252 Resp: 352670
Ion Ratio Lower Upper
252 100
253 21.6 17.4 26.2
125 10.1 8.3 12.5

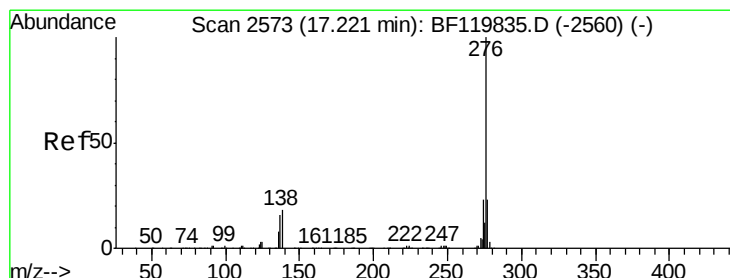
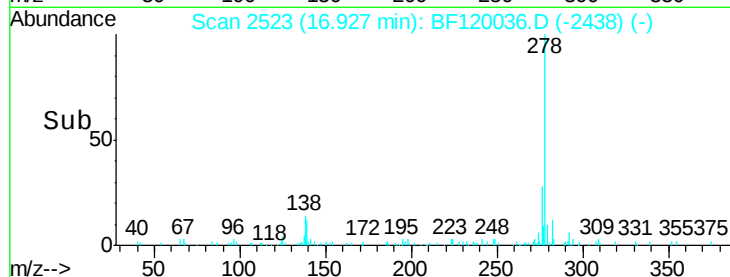
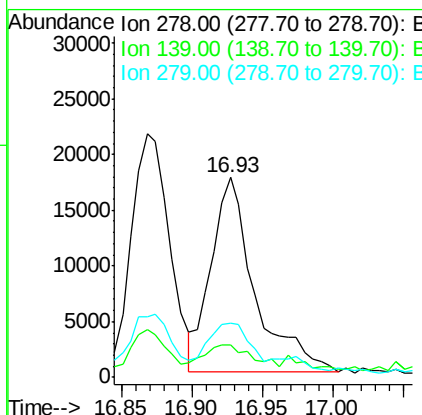
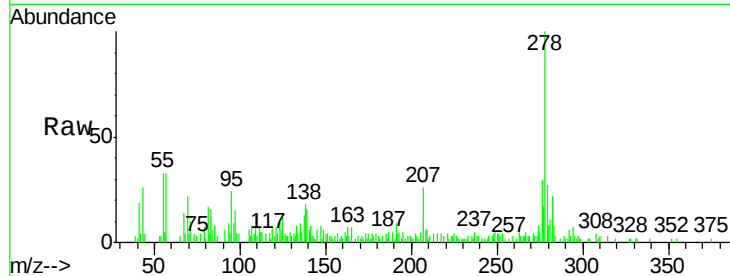




#91
Dibenzo(a,h)anthracene
Concen: 3.018 ng
RT: 16.93 min Scan# 2523
Delta R.T. 0.20 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Instrument :
BNA_F
ClientSampleId :
TP-11-19

Tot Ion:278 Resp: 37660
Ion Ratio Lower Upper
278 100
139 16.0 11.6 17.4
279 26.9 19.7 29.5



#92
Benzo(g,h,i)perylene
Concen: 12.992 ng
RT: 17.12 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BF120036.D
Acq: 16 Apr 2020 15:14

Tgt Ion:276 Resp: 160013
Ion Ratio Lower Upper
276 100
277 25.0 18.5 27.7
138 19.6 14.6 22.0

