

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
 Data File : BF118008.D
 Acq On : 26 Nov 2019 15:43
 Operator : JU
 Sample : K5672-01DL 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 26 16:12:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 05:38:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	154445	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	482589	20.00	ng	0.00
39) Acenaphthene-d10	9.95	164	215785	20.00	ng	0.00
64) Phenanthrene-d10	11.44	188	330921	20.00	ng	0.00
76) Chrysene-d12	14.09	240	248812	20.00	ng	0.00
87) Perylene-d12	15.59	264	209764	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	16174	1.85	ng	0.00
7) Phenol-d6	6.51	99	22384	2.13	ng	-0.01
23) Nitrobenzene-d5	7.45	82	9577	1.18	ng	-0.01
42) 2,4,6-Tribromophenol	10.73	330	3062	1.34	ng	0.00
45) 2-Fluorobiphenyl	9.26	172	21923	1.82	ng	0.00
79) Terphenyl-d14	13.03	244	18389	1.35	ng	0.00

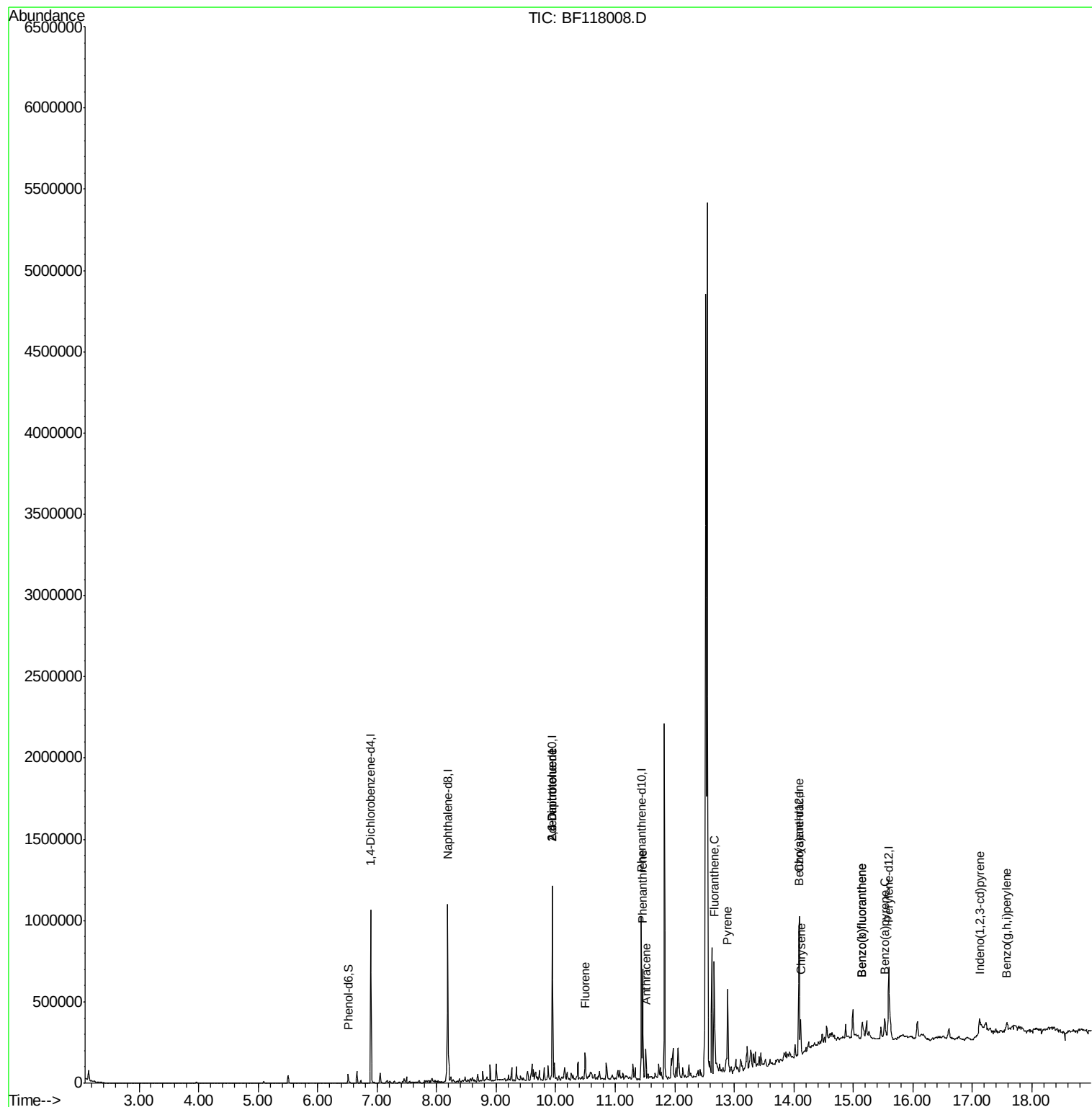
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.66	77	485	Below Cal		# 66
51) 2,6-Dinitrotoluene	9.95	165	28092	8.494	ng	# 23
57) 2,4-Dinitrotoluene	9.95	165	28092	6.678	ng	# 24
58) Fluorene	10.49	166	41441	3.140	ng	97
71) Phenanthrene	11.46	178	223940	13.460	ng	96
72) Anthracene	11.52	178	72098	4.371	ng	96
75) Fluoranthene	12.66	202	191959	6.178	ng	98
78) Pyrene	12.89	202	208331	10.361	ng	98
81) Benzo(a)anthracene	14.08	228	92027	5.597	ng	97
83) Chrysene	14.12	228	75958	4.768	ng	96
86) Indeno(1,2,3-cd)pyrene	17.12	276	28614	2.110	ng	95
88) Benzo(b)fluoranthene	15.15	252	82953	6.087	ng	# 94
89) Benzo(k)fluoranthene	15.15	252	82953	6.460	ng	# 92
90) Benzo(a)pyrene	15.53	252	50710	4.231	ng	# 93
92) Benzo(a,h,i)perylene	17.57	276	30054	2.925	ng	# 89

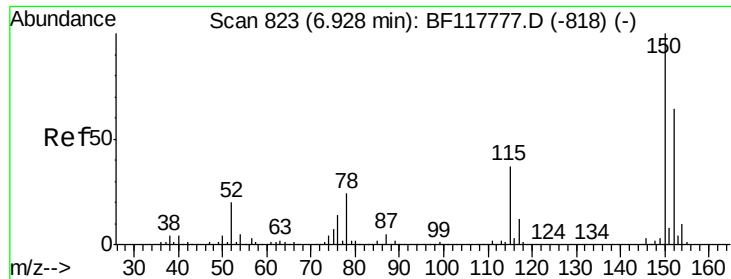
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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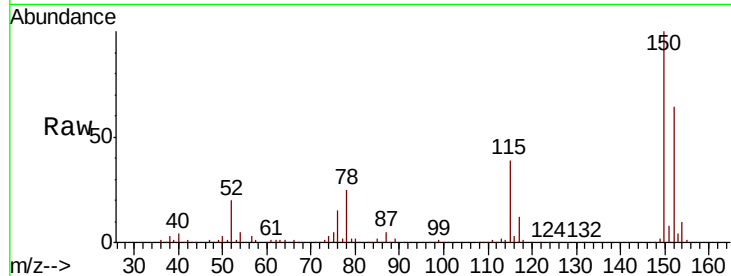


#1

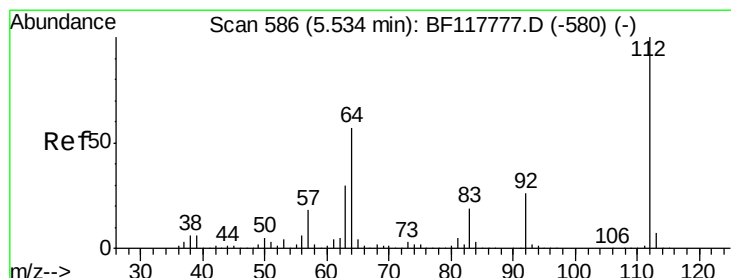
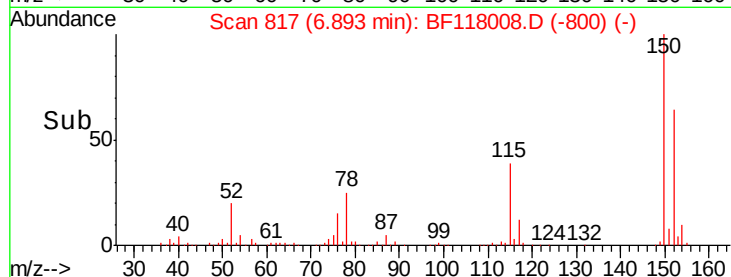
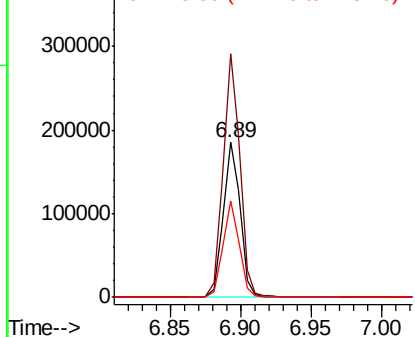
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 154445
Ion Ratio Lower Upper
152 100
150 157.0 125.3 187.9
115 61.9 47.0 70.4



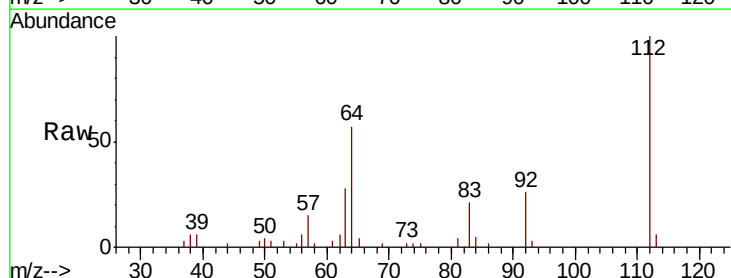
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



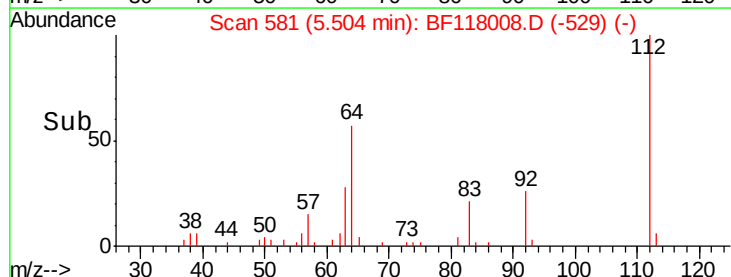
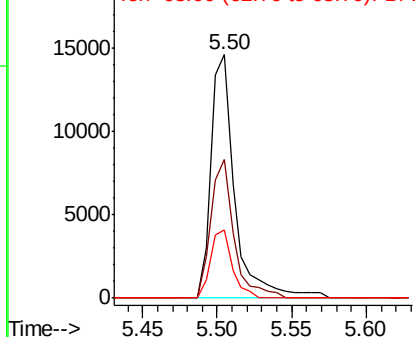
#5

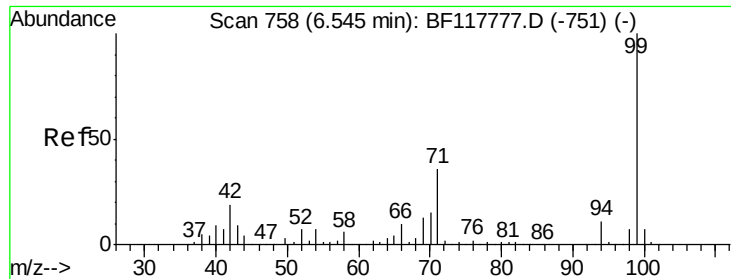
2-Fluorophenol
Concen: 1.854 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Tgt Ion:112 Resp: 16174
Ion Ratio Lower Upper
112 100
64 56.8 45.6 68.4
63 27.8 24.1 36.1



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: 2.127 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

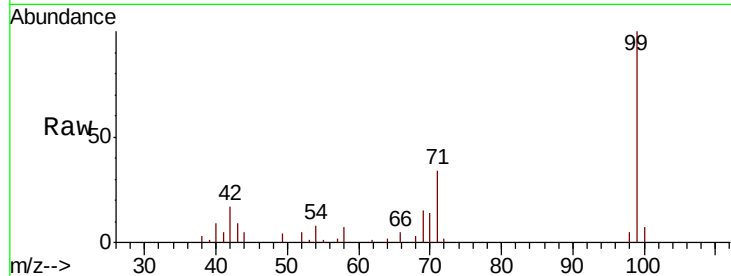
Tot Ion: 99 Resp: 22384

Ion Ratio Lower Upper

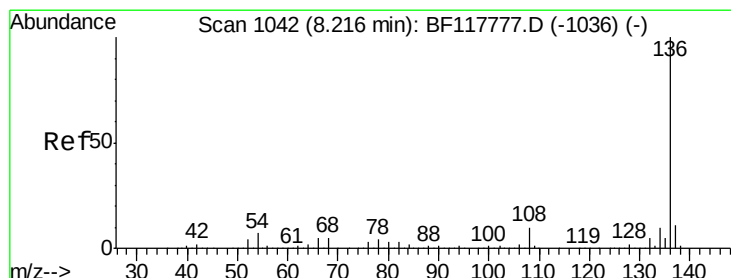
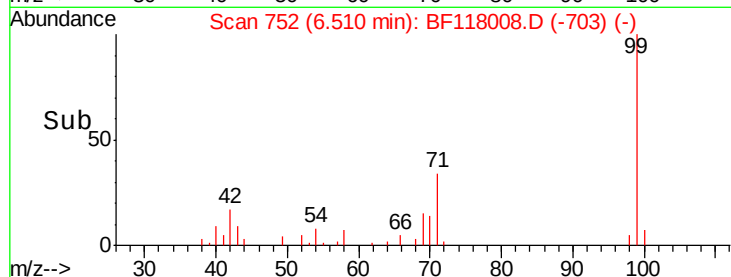
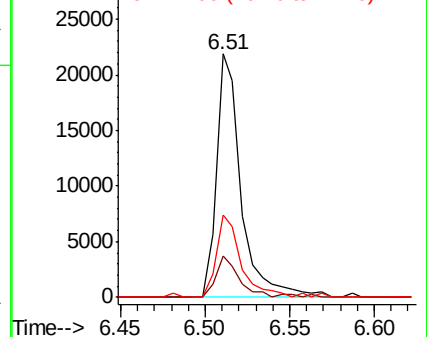
99 100

42 16.9 14.9 22.3

71 33.7 28.6 43.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Tgt Ion: 136 Resp: 482589

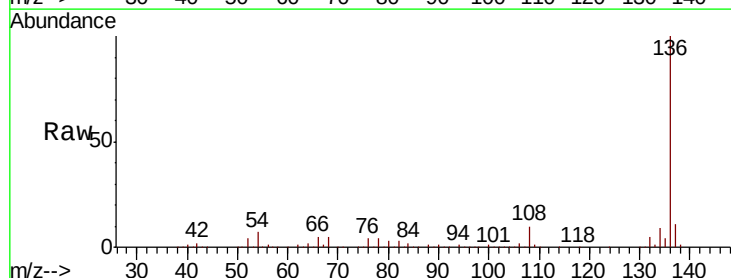
Ion Ratio Lower Upper

136 100

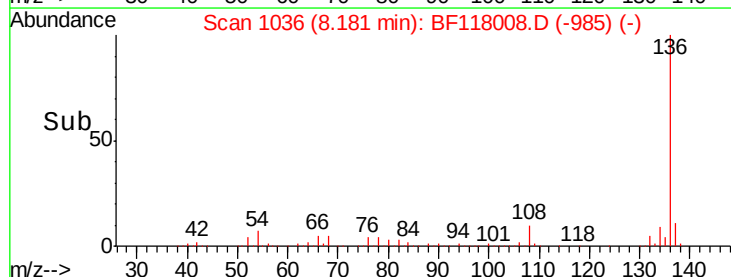
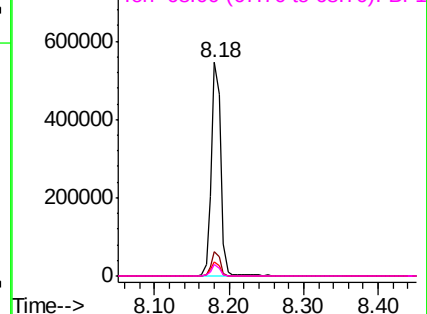
137 11.3 9.0 13.4

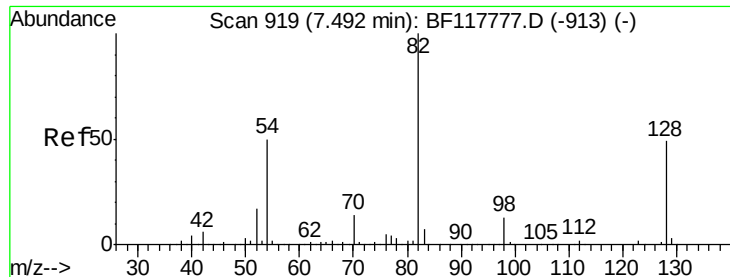
54 6.8 5.4 8.2

68 5.4 4.3 6.5



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

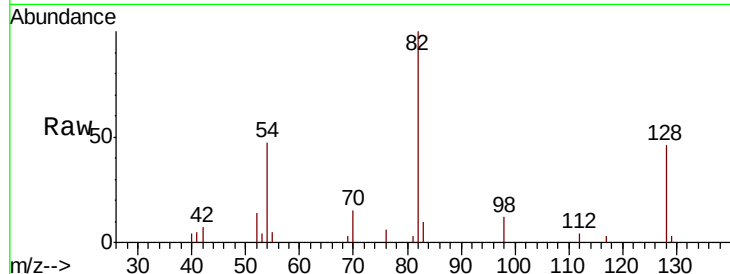




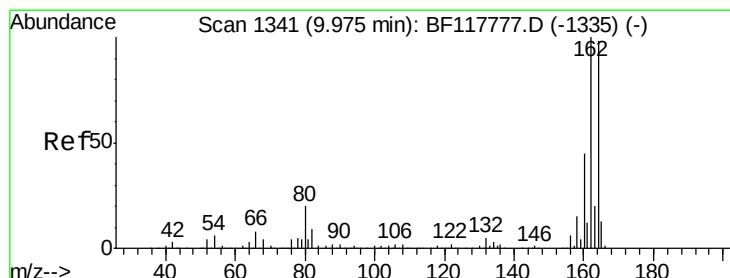
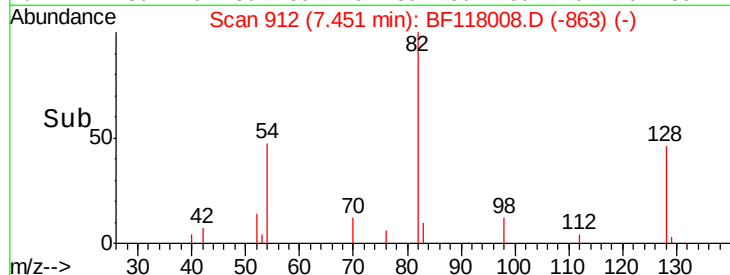
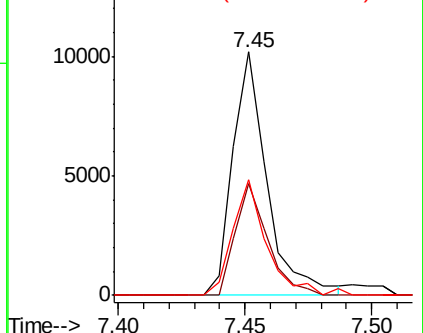
#23
 Nitrobenzene-d5
 Concen: 1.180 ng
 RT: 7.45 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: BF118008.D
 Acq: 26 Nov 2019 15:43

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	9577
Ion Ratio	Lower	Upper	
82	100		
128	45.8	38.9	58.3
54	47.4	39.8	59.6

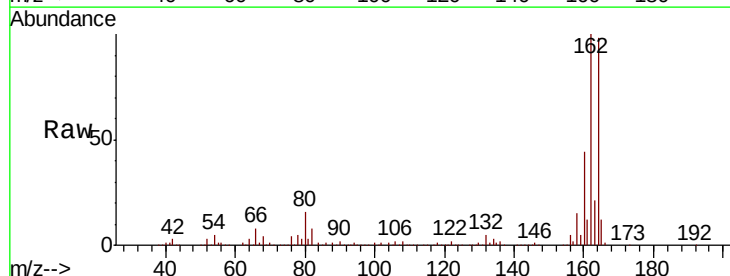


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

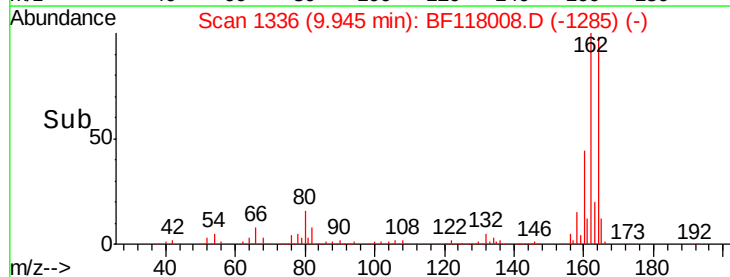
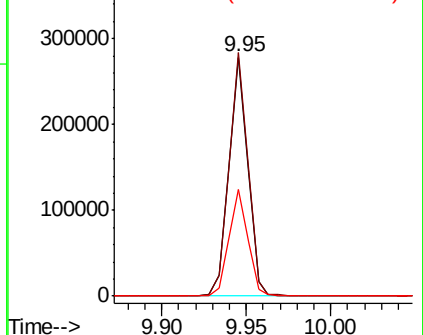


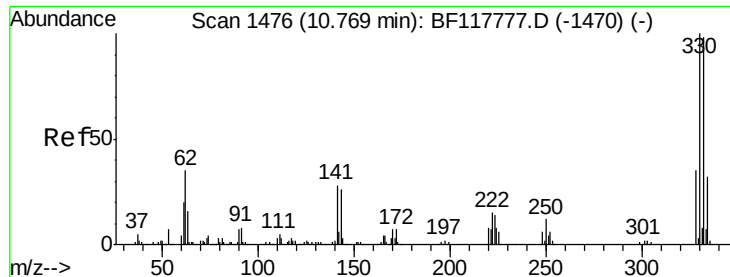
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.95 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: BF118008.D
 Acq: 26 Nov 2019 15:43

Tgt Ion	164	Resp	215785
Ion Ratio	Lower	Upper	
164	100		
162	102.0	81.3	121.9
160	44.9	36.6	55.0



Abundance Ion 164.00 (163.70 to 164.70): BF1
 Ion 162.00 (161.70 to 162.70): BF1
 Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 1.340 ng

RT: 10.73 min Scan# 1470

Delta R.T. -0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampled :

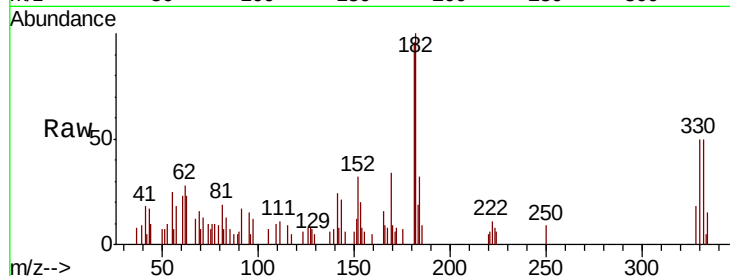
Tot Ion:330 Resp: 3062

Ion Ratio Lower Upper

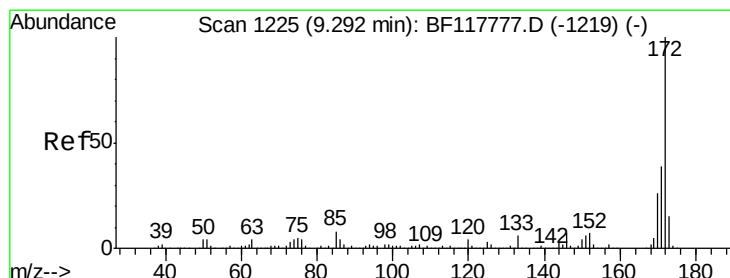
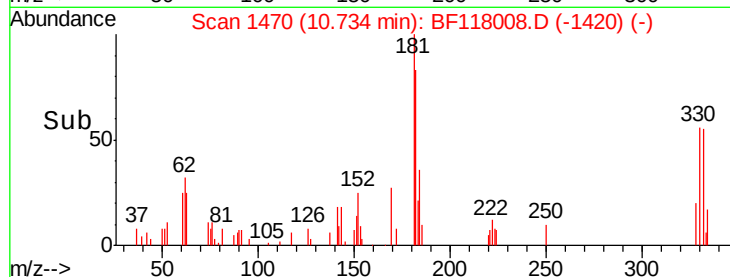
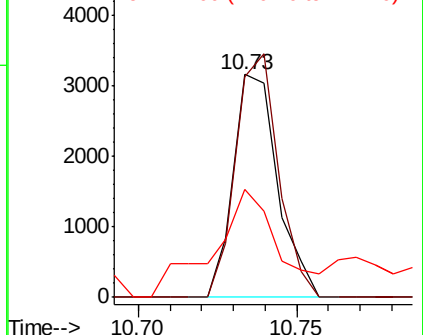
330 100

332 105.3 76.7 115.1

141 71.9 27.7 41.5#



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: 1.823 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

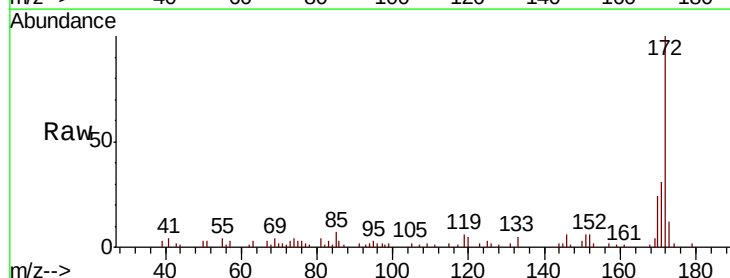
Tgt Ion:172 Resp: 21923

Ion Ratio Lower Upper

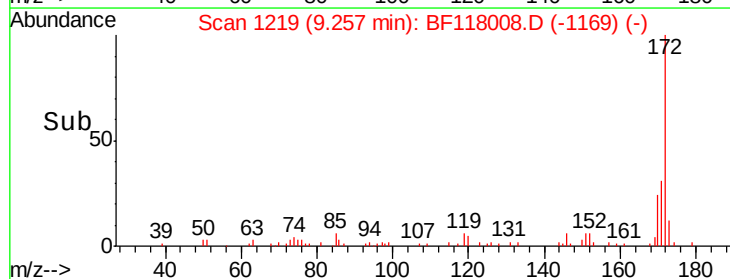
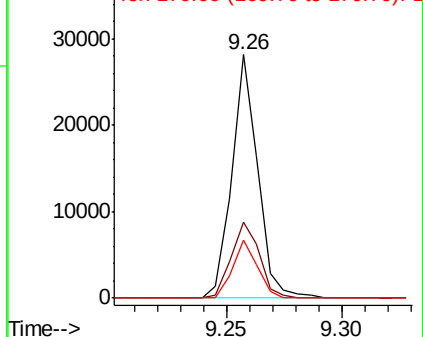
172 100

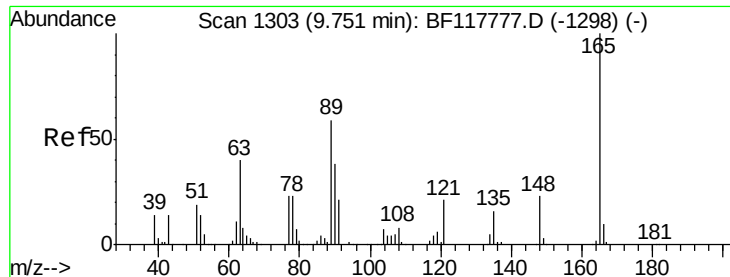
171 31.0 30.9 46.3

170 23.7 21.0 31.4



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





#51

2,6-Dinitrotoluene

Concen: 8.494 ng

RT: 9.95 min Scan# 1336

Delta R.T. 0.22 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

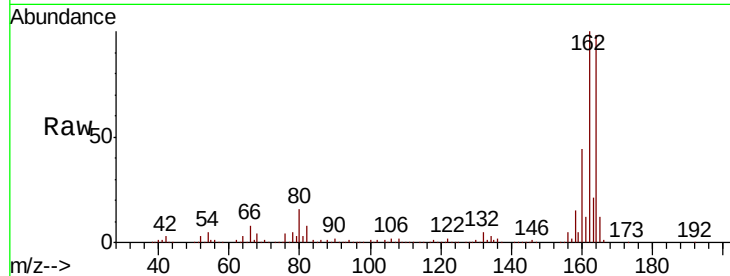
Tot Ion:165 Resp: 28092

Ion Ratio Lower Upper

165 100

63 1.0 46.0 69.0#

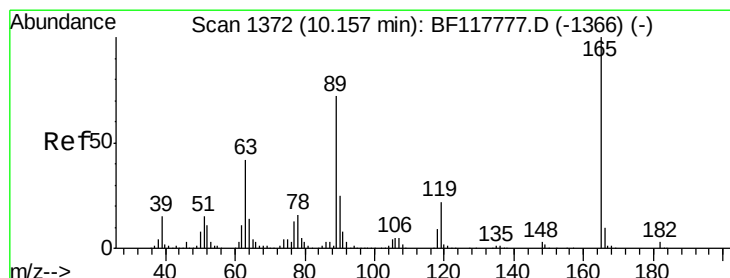
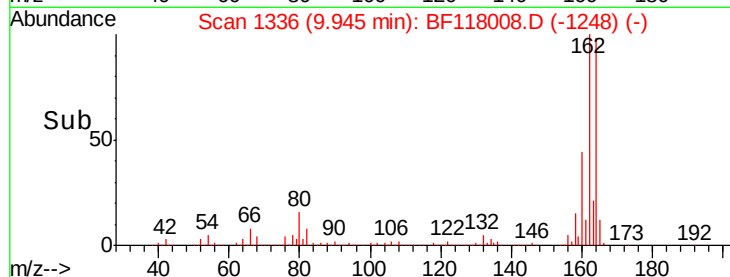
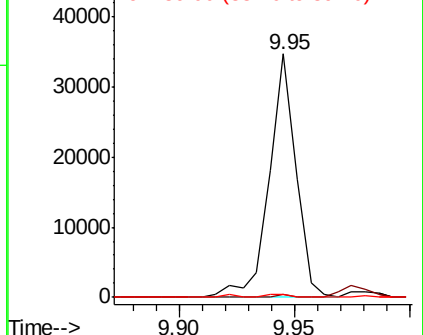
89 1.5 47.7 71.5#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.678 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.19 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Tgt Ion:165 Resp: 28092

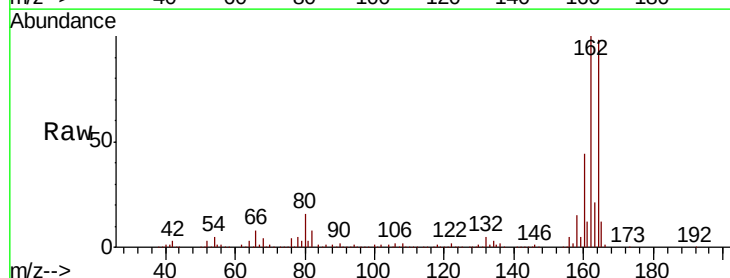
Ion Ratio Lower Upper

165 100

63 1.0 33.7 50.5#

89 1.5 57.3 85.9#

182 0.0 2.3 3.5#

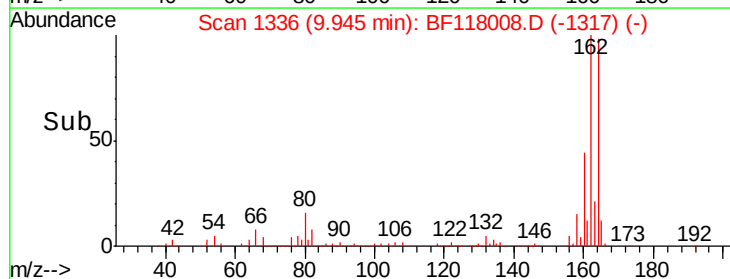
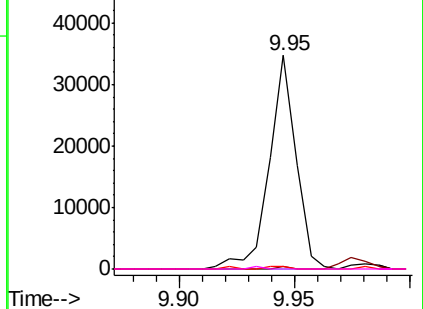


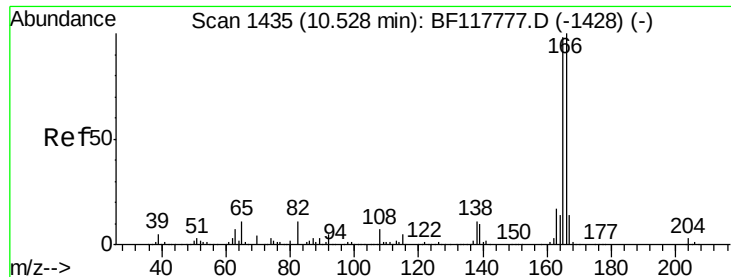
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

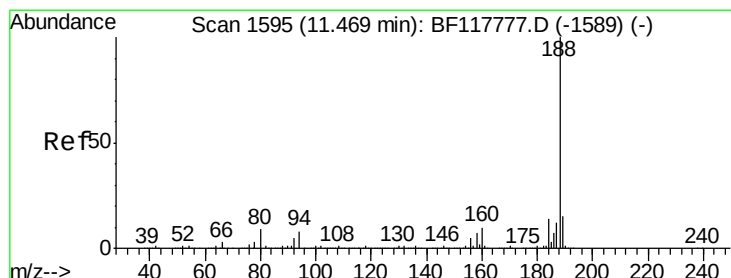
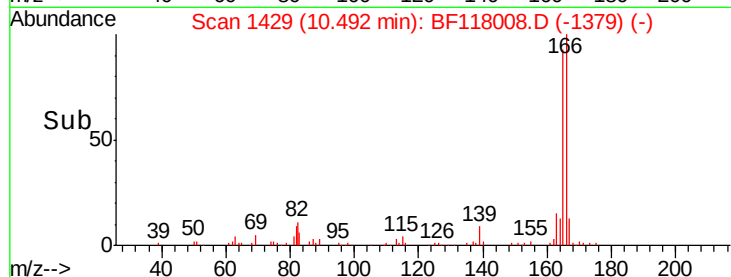
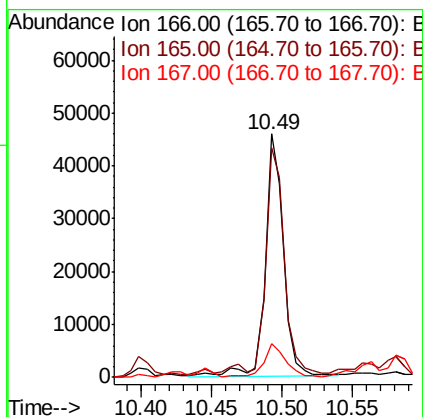
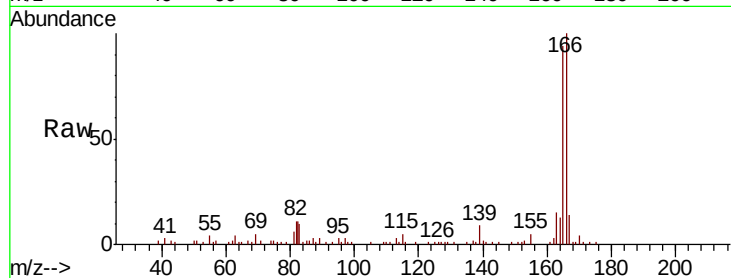




#58
 Fluorene
 Concen: 3.140 ng
 RT: 10.49 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: BF118008.D
 Acq: 26 Nov 2019 15:43

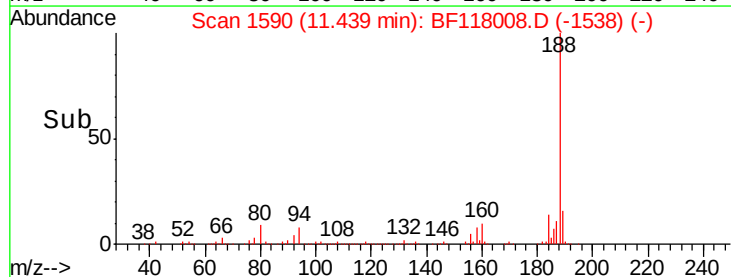
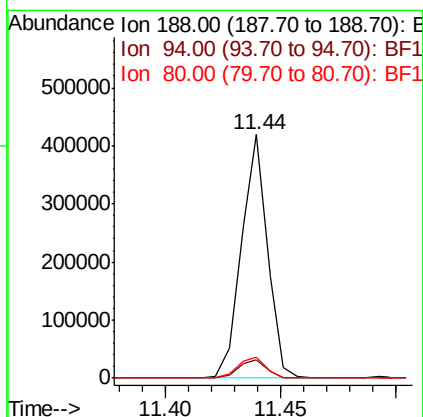
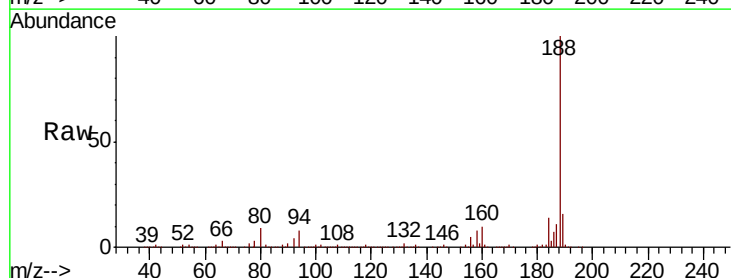
Instrument :
 BNA_F
 ClientSampleId :

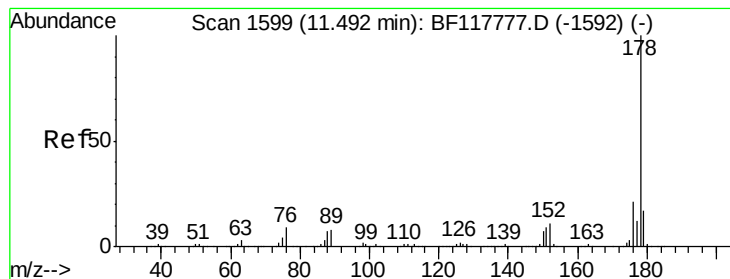
Tot Ion:166 Resp: 41441
 Ion Ratio Lower Upper
 166 100
 165 94.3 78.4 117.6
 167 13.9 11.0 16.4



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: BF118008.D
 Acq: 26 Nov 2019 15:43

Tgt Ion:188 Resp: 330921
 Ion Ratio Lower Upper
 188 100
 94 7.6 6.6 10.0
 80 8.7 7.2 10.8





#71

Phenanthrene

Concen: 13.460 ng

RT: 11.46 min Scan# 1594

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

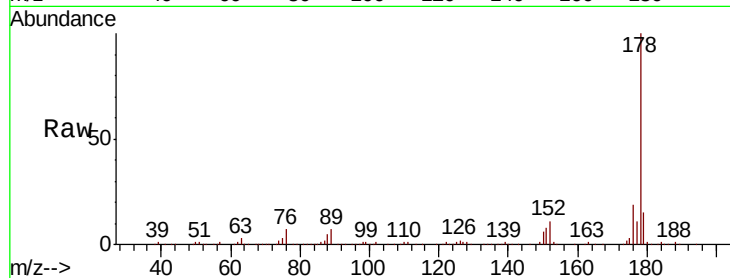
Tot Ion:178 Resp: 223940

Ion Ratio Lower Upper

178 100

176 18.8 16.6 25.0

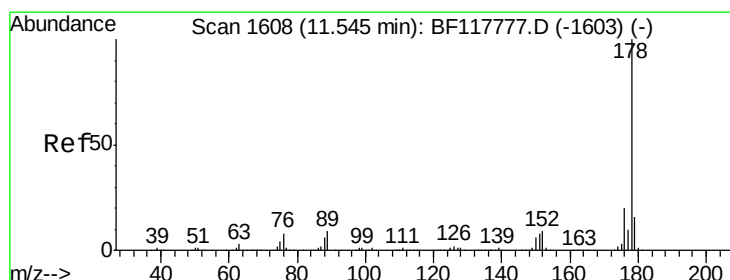
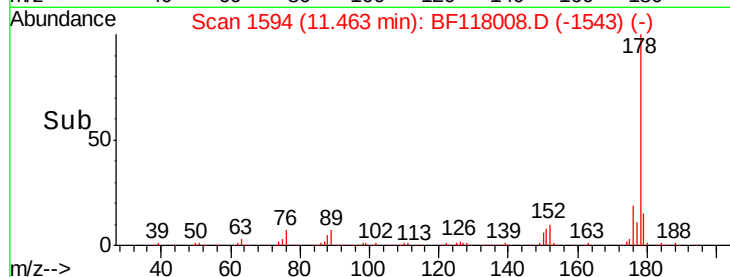
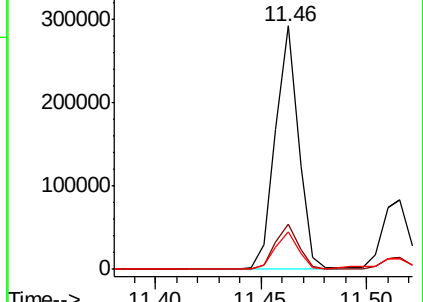
179 15.5 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 4.371 ng

RT: 11.52 min Scan# 1603

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

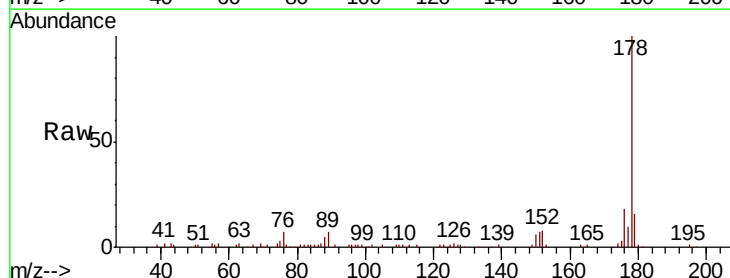
Tgt Ion:178 Resp: 72098

Ion Ratio Lower Upper

178 100

176 17.6 16.1 24.1

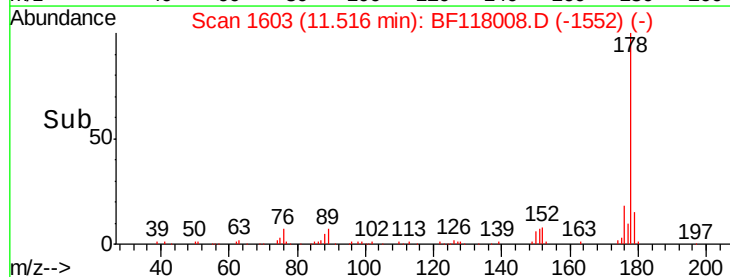
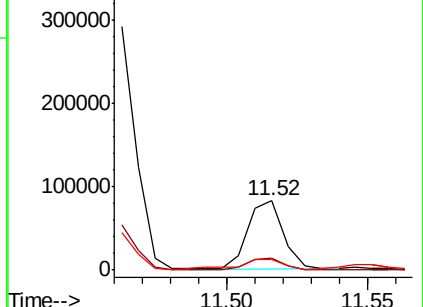
179 15.6 13.0 19.4

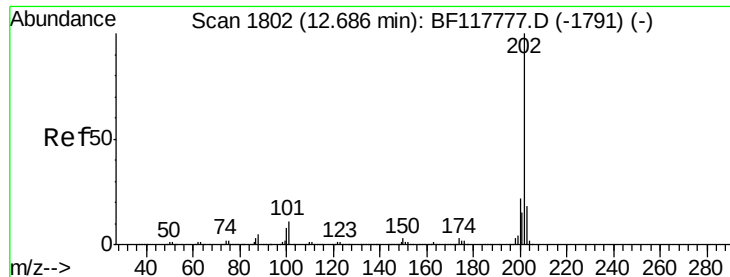


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 6.178 ng

RT: 12.66 min Scan# 1797

Delta R.T. 0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

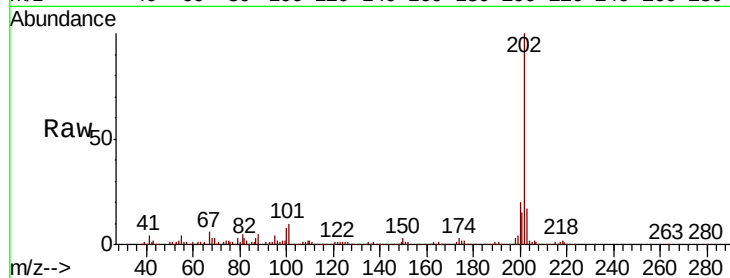
Tot Ion:202 Resp: 191959

Ion Ratio Lower Upper

202 100

101 10.3 0.0 31.1

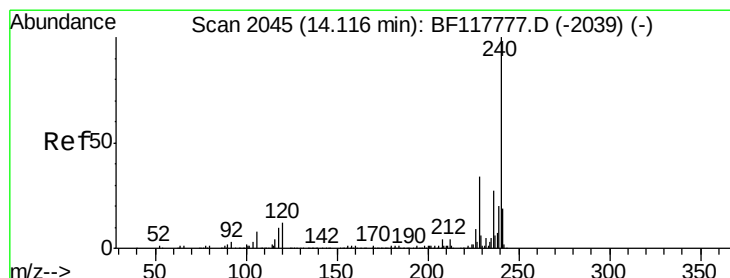
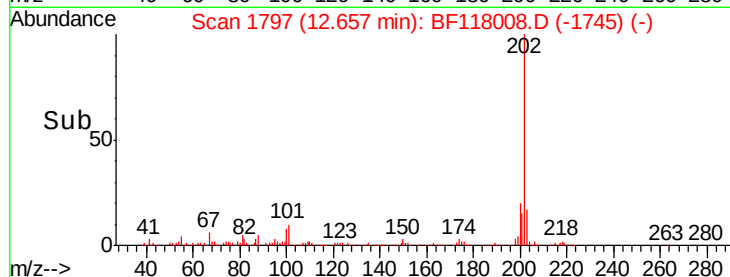
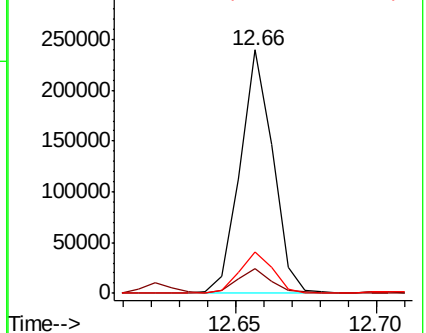
203 17.2 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.09 min Scan# 2041

Delta R.T. 0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

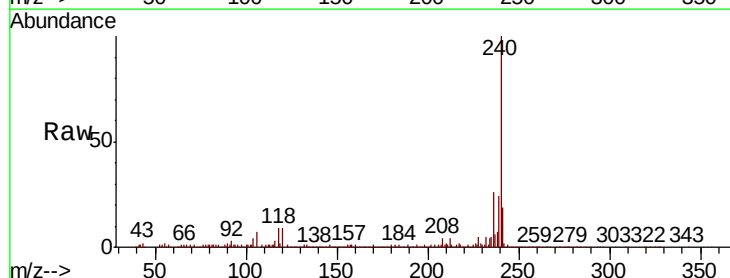
Tgt Ion:240 Resp: 248812

Ion Ratio Lower Upper

240 100

120 9.4 9.5 14.3#

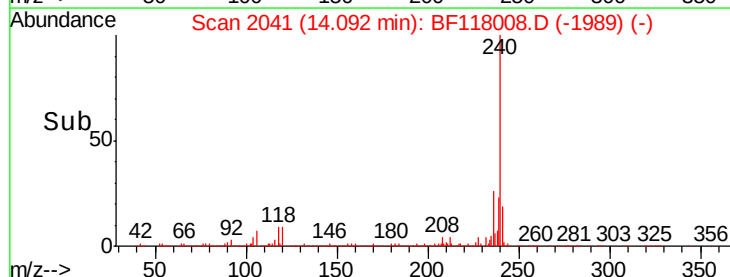
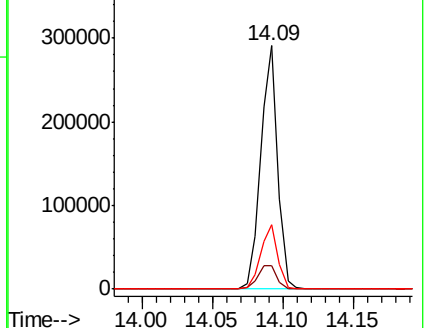
236 26.4 21.3 31.9

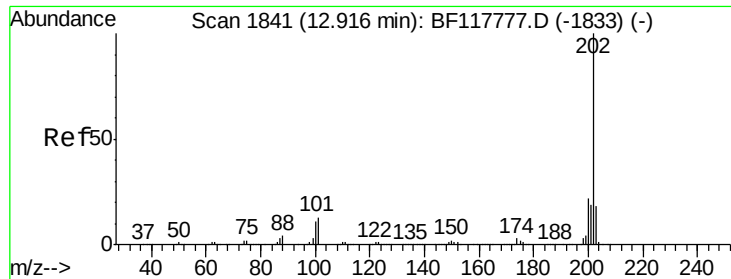


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 10.361 ng

RT: 12.89 min Scan# 1836

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

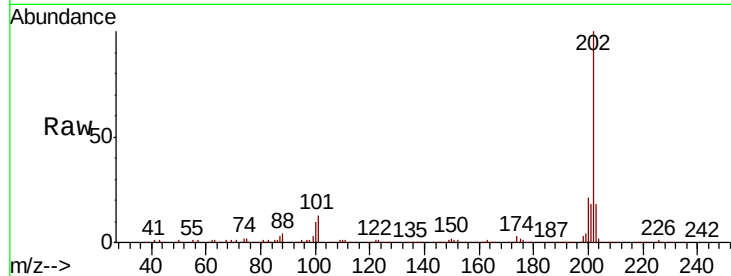
Tot Ion:202 Resp: 208331

Ion Ratio Lower Upper

202 100

200 21.3 17.8 26.8

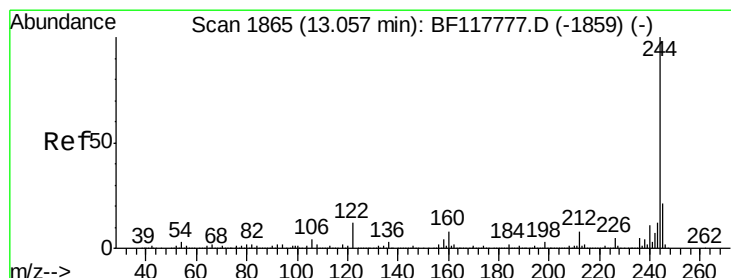
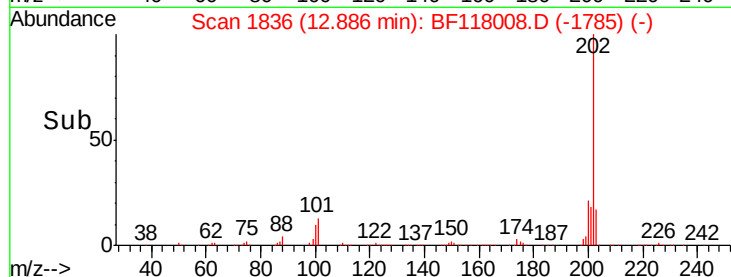
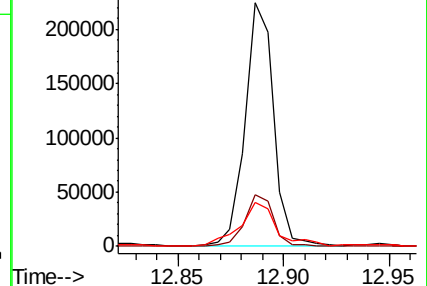
203 17.8 14.6 22.0



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: 1.351 ng

RT: 13.03 min Scan# 1860

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

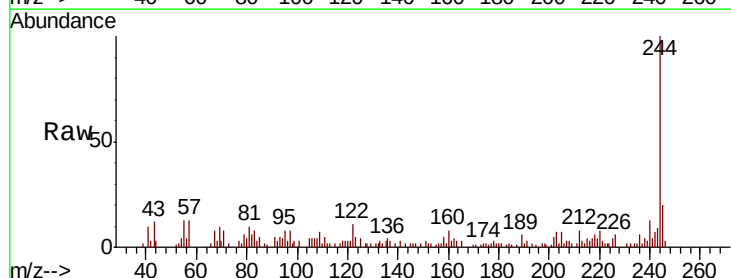
Tgt Ion:244 Resp: 18389

Ion Ratio Lower Upper

244 100

212 8.4 6.3 9.5

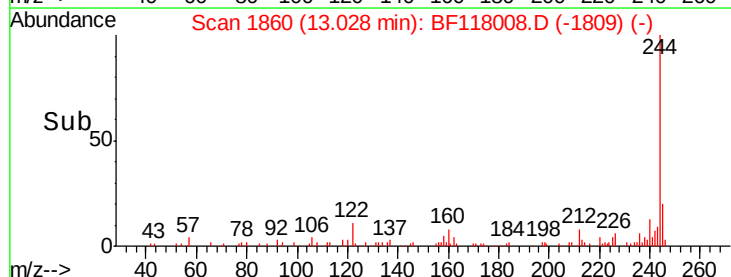
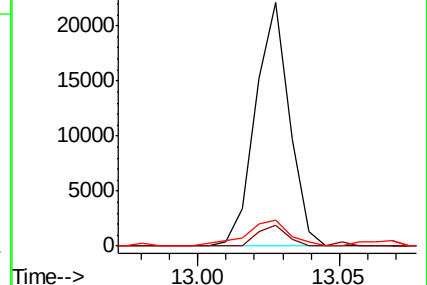
122 10.8 9.4 14.2

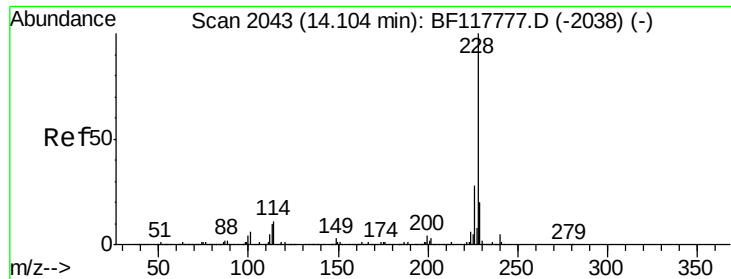


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 5.597 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

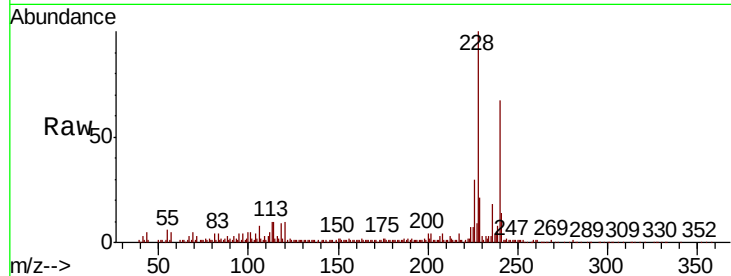
Tot Ion:228 Resp: 92027

Ion Ratio Lower Upper

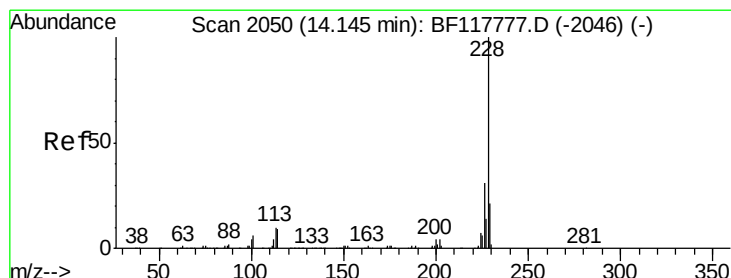
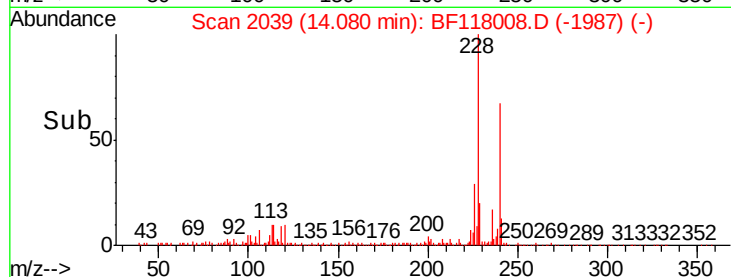
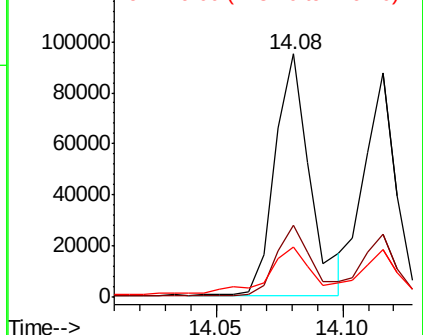
228 100

226 29.8 22.2 33.2

229 20.9 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: 4.768 ng

RT: 14.12 min Scan# 2045

Delta R.T. 0.00 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

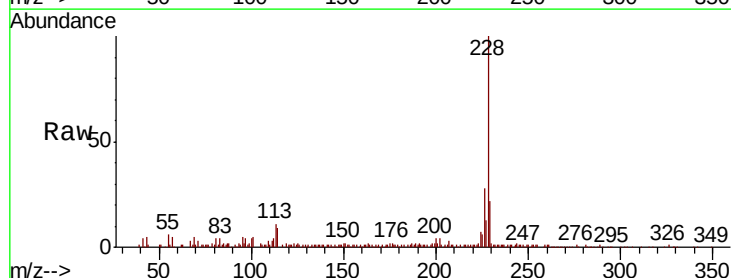
Tgt Ion:228 Resp: 75958

Ion Ratio Lower Upper

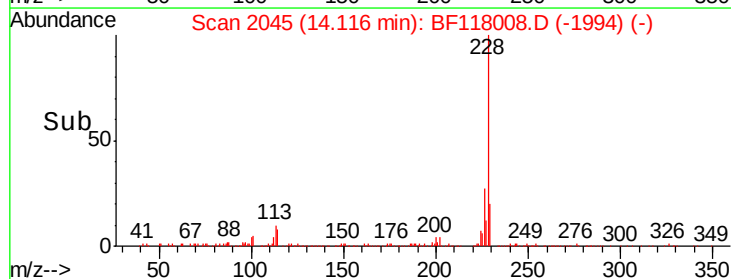
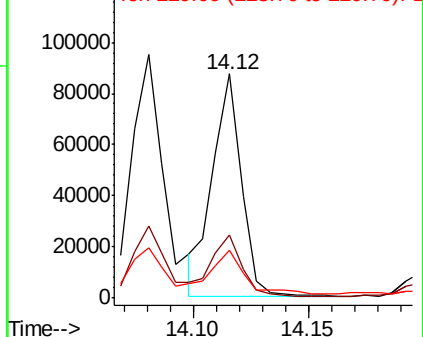
228 100

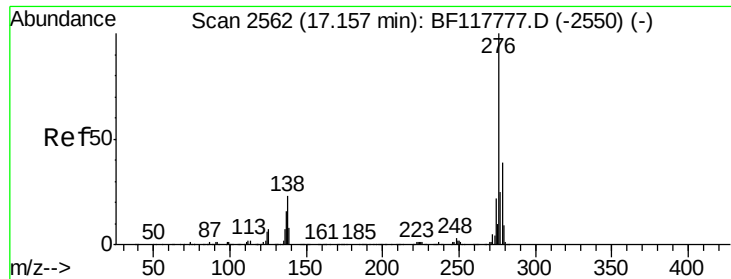
226 28.3 25.0 37.4

229 21.5 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

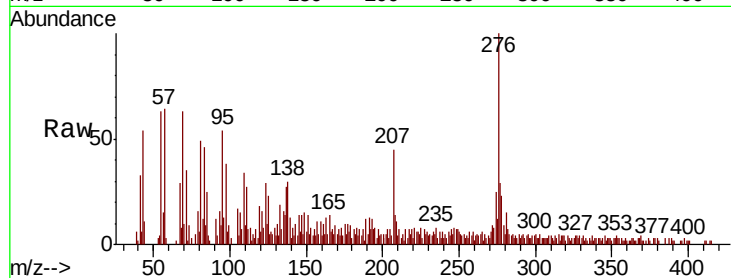




#86
Indeno(1,2,3-cd)pyrene
Concen: 2.110 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.02 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.6	20.9	31.3
277	23.8	20.3	30.5

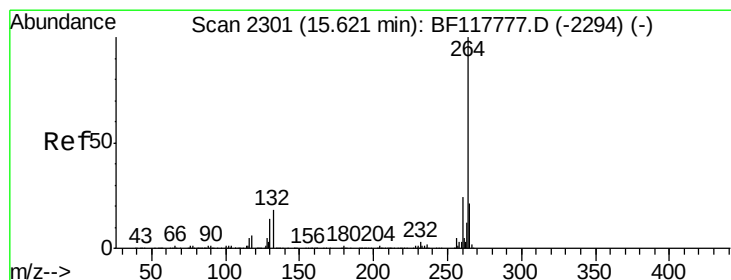
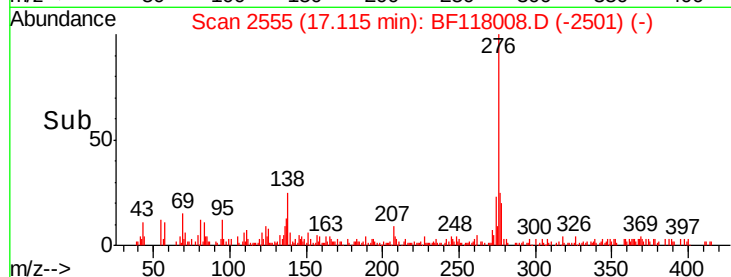
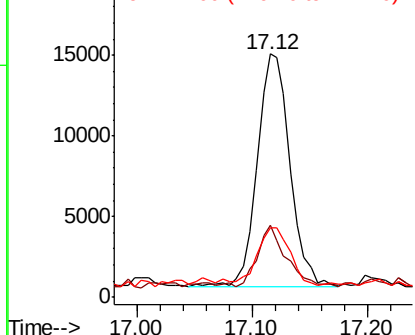


Abundance

Ion 276.00 (275.70 to 276.70): E

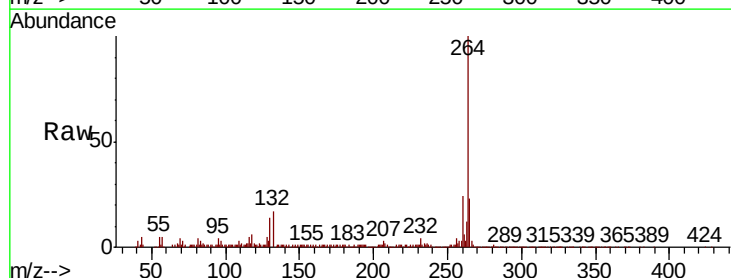
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.59 min Scan# 2296
Delta R.T. 0.01 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.0
265	22.6	17.1	25.7

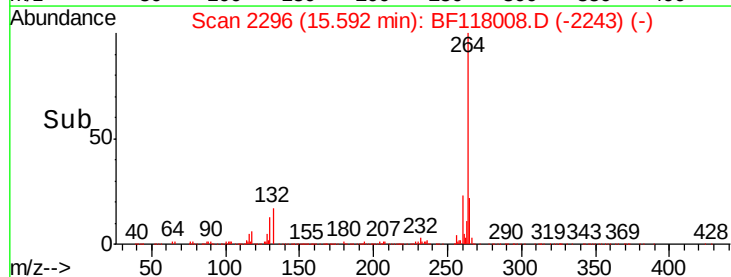
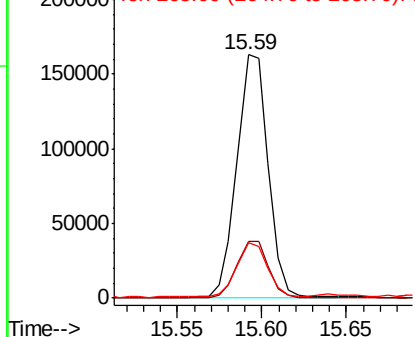


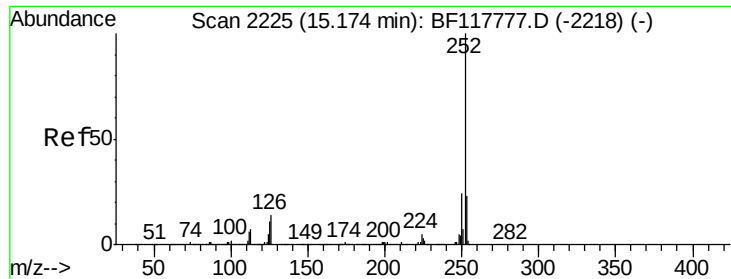
Abundance

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

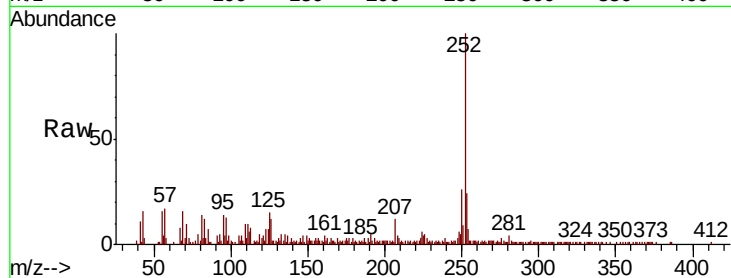




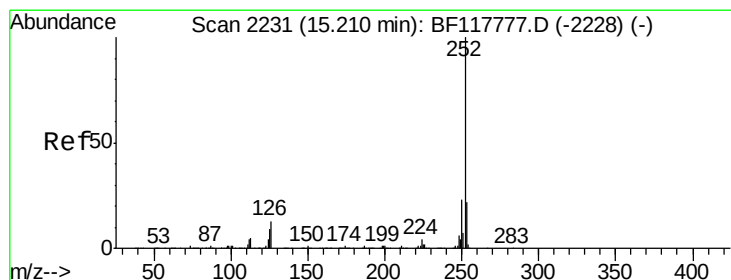
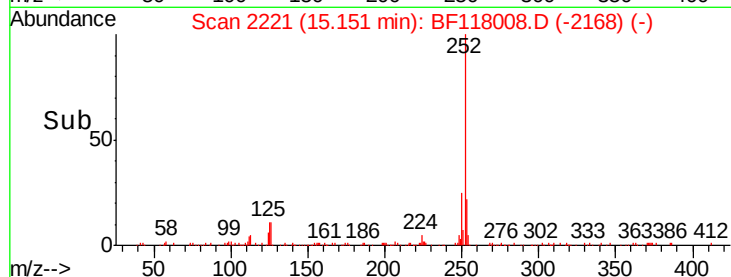
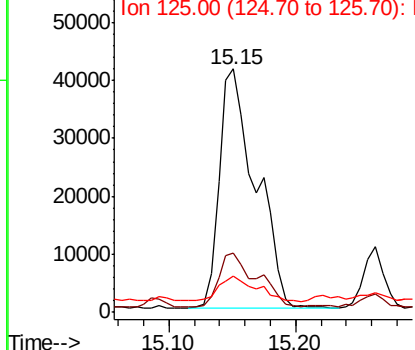
#88
Benzo(b)fluoranthene
Concen: 6.087 ng
RT: 15.15 min Scan# 2221
Delta R.T. 0.01 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.0	27.0
125	14.9	8.6	13.0

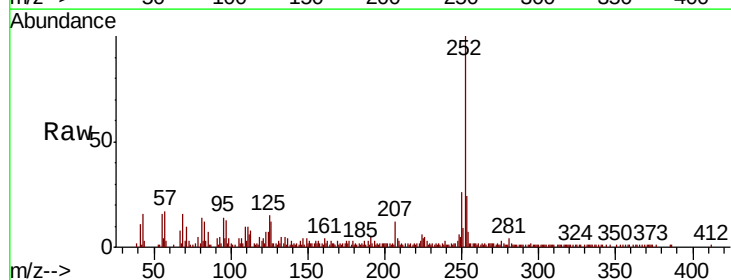


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

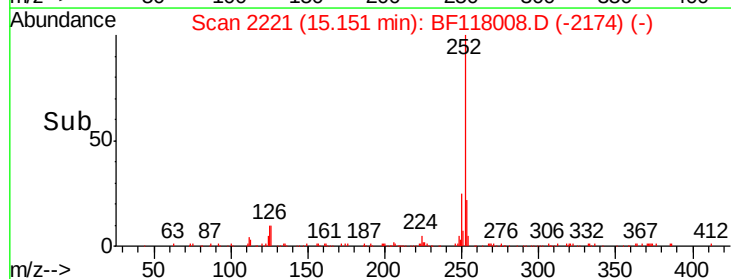
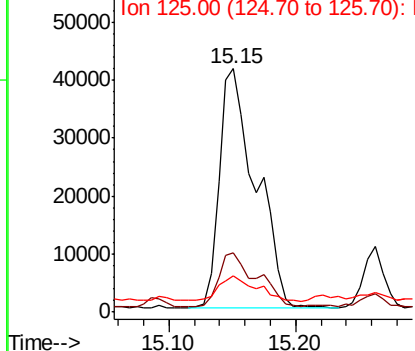


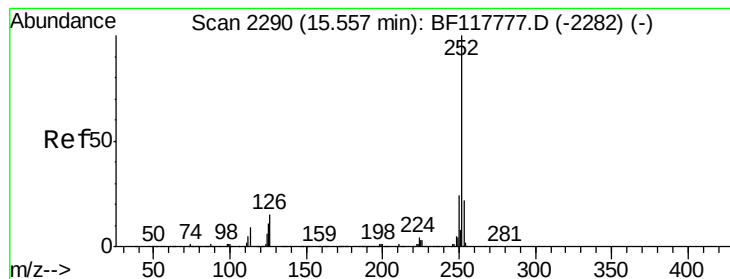
#89
Benzo(k)fluoranthene
Concen: 6.460 ng
RT: 15.15 min Scan# 2221
Delta R.T. -0.02 min
Lab File: BF118008.D
Acq: 26 Nov 2019 15:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	14.9	7.9	11.9



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: 4.231 ng

RT: 15.53 min Scan# 2285

Delta R.T. 0.01 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

Instrument :

BNA_F

ClientSampleId :

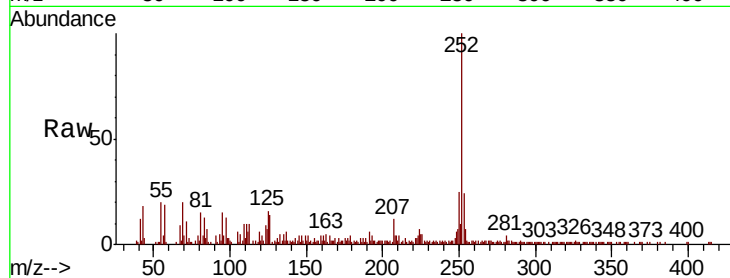
Tot Ion:252 Resp: 50710

Ion Ratio Lower Upper

252 100

253 24.3 17.8 26.6

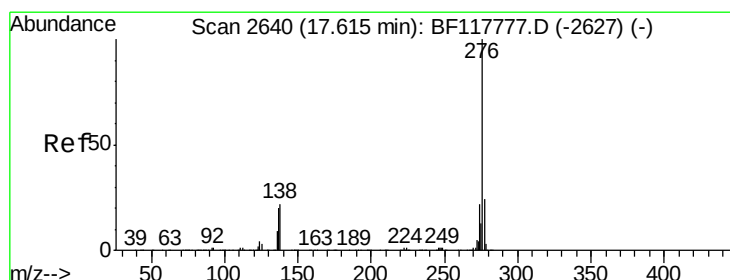
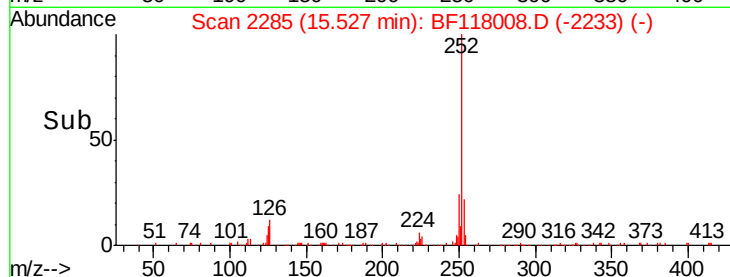
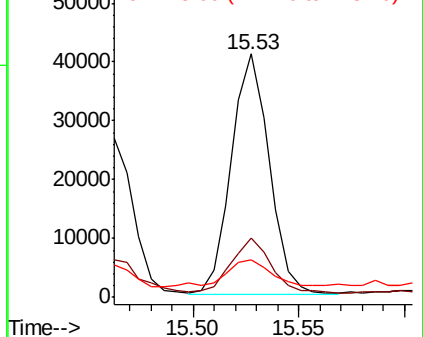
125 15.7 9.2 13.8#



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



#92

Benzo(g,h,i)perylene

Concen: 2.925 ng

RT: 17.57 min Scan# 2633

Delta R.T. 0.02 min

Lab File: BF118008.D

Acq: 26 Nov 2019 15:43

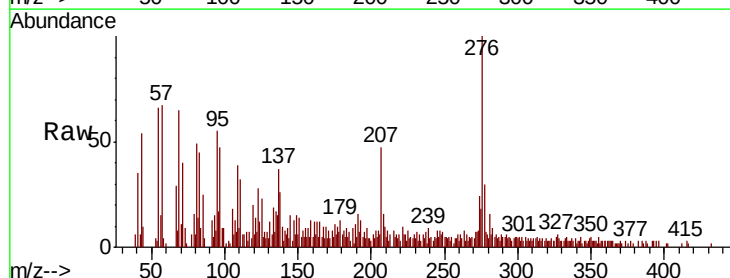
Tgt Ion:276 Resp: 30054

Ion Ratio Lower Upper

276 100

277 29.9 18.9 28.3#

138 25.8 17.4 26.2



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

