

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082319\
 Data File : BF116498.D
 Acq On : 24 Aug 2019 00:53
 Operator : HP/JU
 Sample : K4385-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

Quant Time: Aug 24 03:37:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

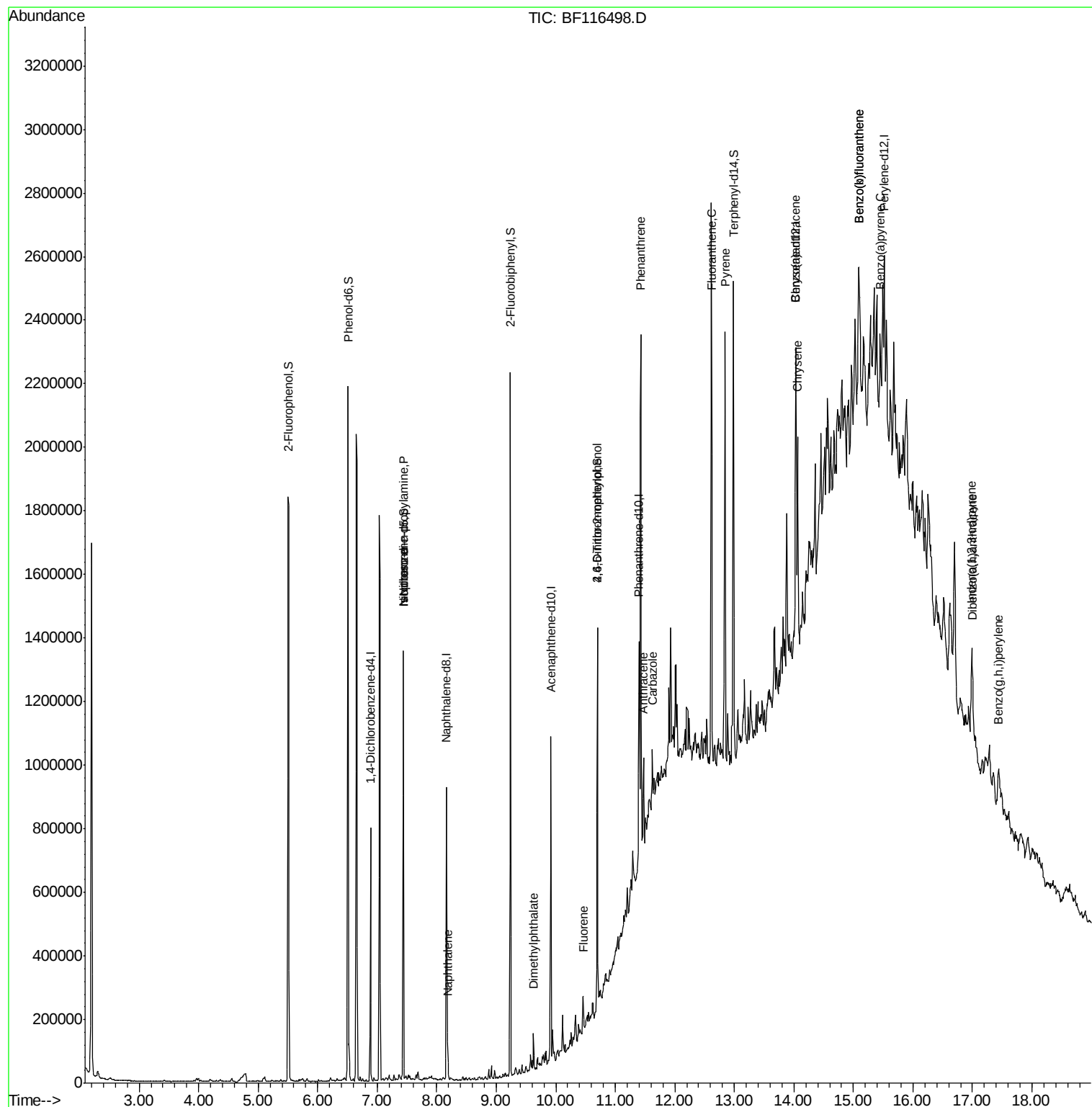
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	106839	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	390334	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	176493	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	258038	20.00	ng	0.00
76) Chrysene-d12	14.04	240	189488	20.00	ng	0.00
87) Perylene-d12	15.52	264	200780	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	534838	73.15	ng	0.01
7) Phenol-d6	6.51	99	696267	77.66	ng	0.00
23) Nitrobenzene-d5	7.44	82	398897	55.91	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	110119	72.66	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	642960	58.67	ng	0.00
79) Terphenyl-d14	12.99	244	489607	48.26	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	54178	8.856	ng	# 78
25) Isophorone	7.44	82	397077	28.242	ng	# 67
31) Naphthalene	8.19	128	40675	2.154	ng	98
50) Dimethylphthalate	9.63	163	33901	2.753	ng	# 99
58) Fluorene	10.46	166	26421	2.375	ng	94
65) 4,6-Dinitro-2-methylphenol	10.70	198	130	7.110	ng	# 1
71) Phenanthrene	11.43	178	604756	43.022	ng	100
72) Anthracene	11.47	178	100311	7.102	ng	99
73) Carbazole	11.62	167	45440	3.584	ng	95
75) Fluoranthene	12.62	202	656898	45.201	ng	98
78) Pyrene	12.84	202	553557	36.530	ng	98
81) Benzo(a)anthracene	14.03	228	277743	22.631	ng	98
83) Chrysene	14.06	228	234273	18.834	ng	97
86) Indeno(1,2,3-cd)pyrene	16.99	276	80778	7.581	ng	97
88) Benzo(b)fluoranthene	15.09	252	316396	25.509	ng	# 92
89) Benzo(k)fluoranthene	15.09	252	316396	28.157	ng	# 91
90) Benzo(a)pyrene	15.45	252	152795	13.939	ng	# 85
91) Dibenzo(a,h)anthracene	17.00	278	24975	2.773	ng	# 70
92) Benzo(g,h,i)perylene	17.44	276	72720	8.468	ng	92

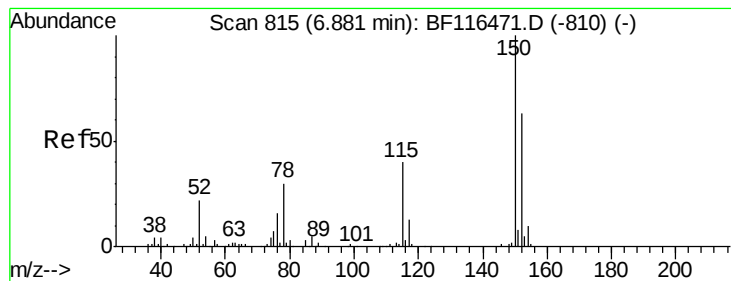
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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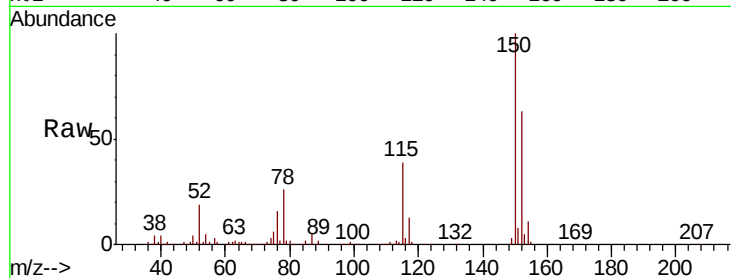


#1

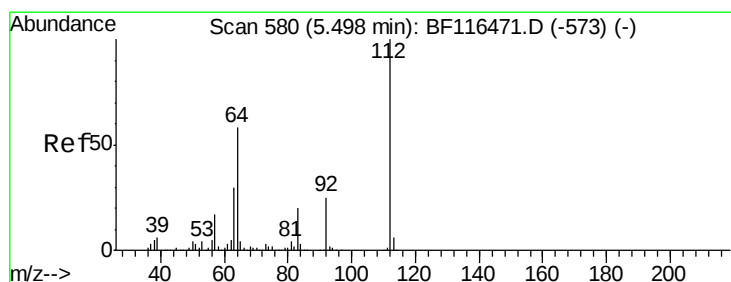
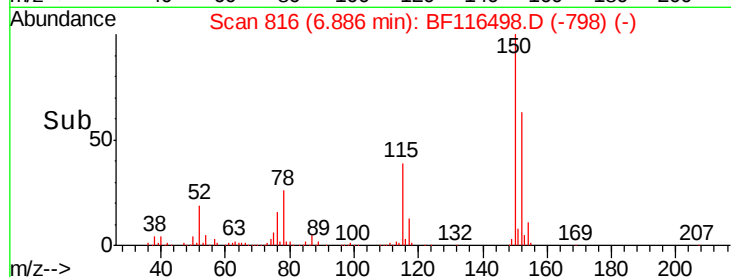
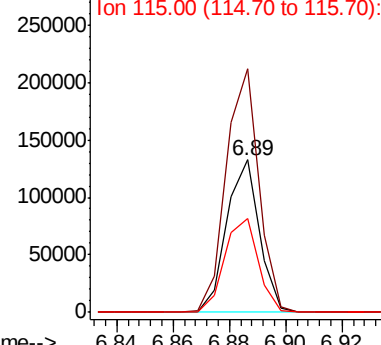
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Instrument :
BNA_F
ClientSampleId :
T8-A1-A4-(0-2)

Tgt Ion:152 Resp: 106839
Ion Ratio Lower Upper
152 100
150 159.8 126.7 190.1
115 61.9 50.9 76.3



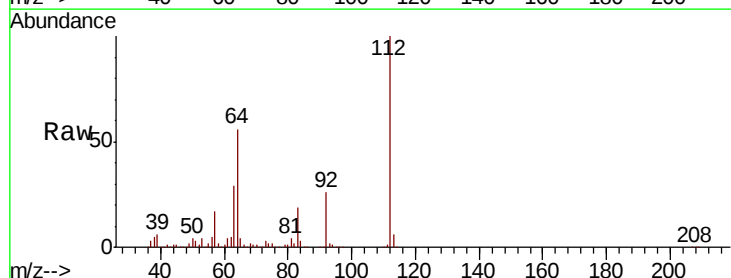
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



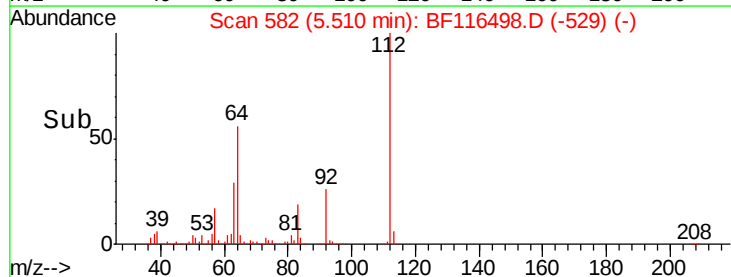
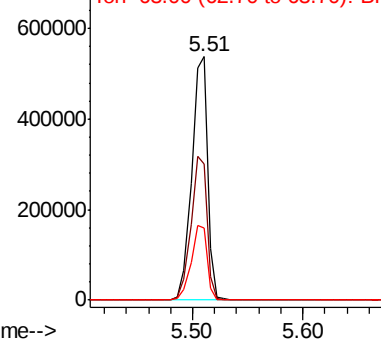
#5

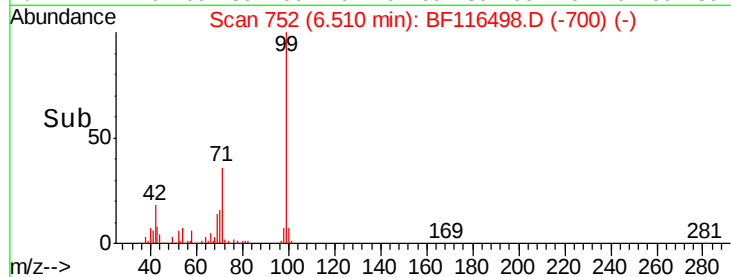
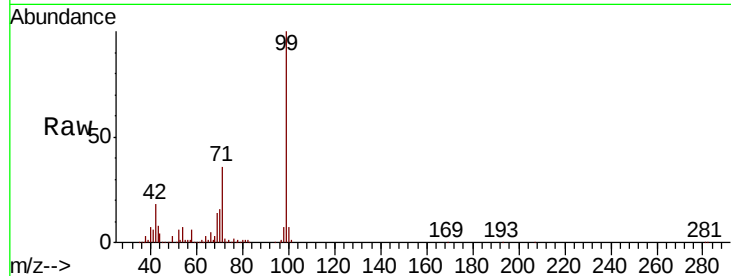
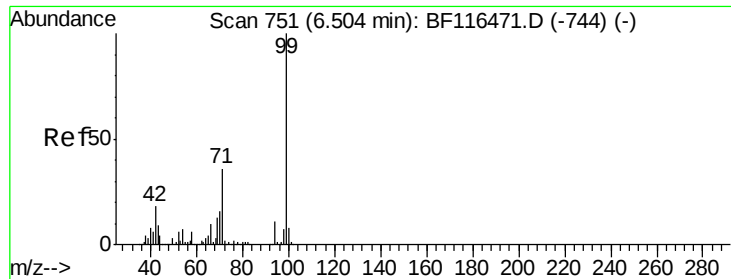
2-Fluorophenol
Concen: 73.145 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Tgt Ion:112 Resp: 534838
Ion Ratio Lower Upper
112 100
64 55.7 46.3 69.5
63 29.4 24.2 36.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 77.660 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

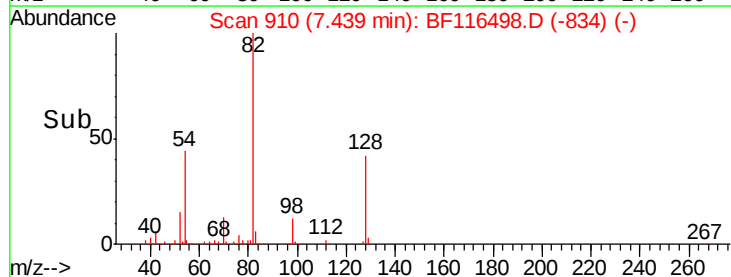
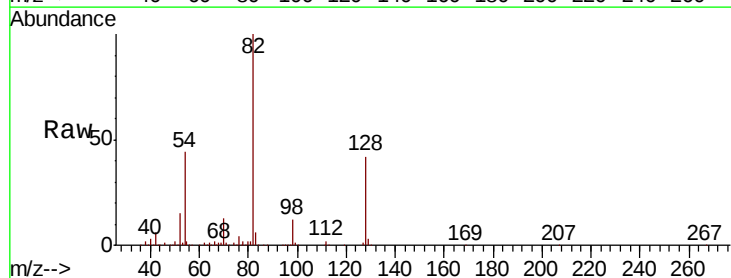
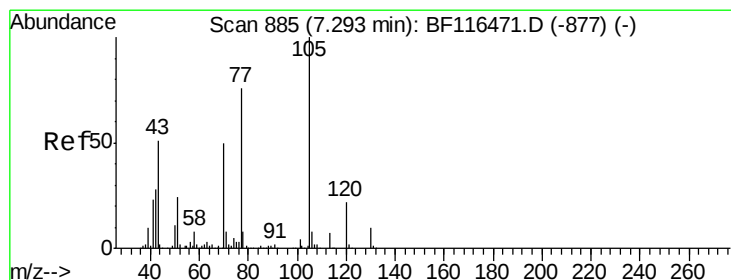
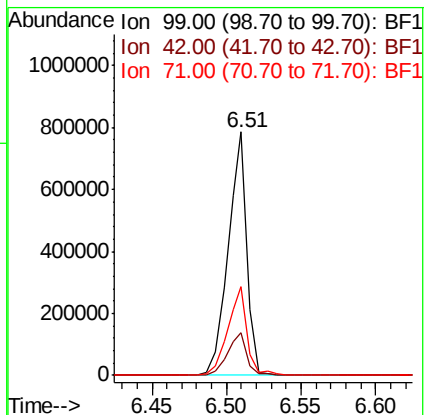
Tgt Ion: 99 Resp: 696267

Ion Ratio Lower Upper

99 100

42 17.6 14.6 21.8

71 36.5 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 8.856 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Tgt Ion: 70 Resp: 54178

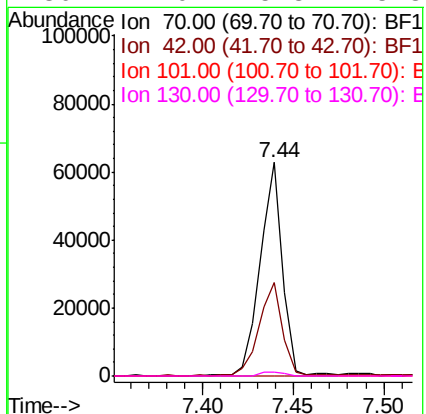
Ion Ratio Lower Upper

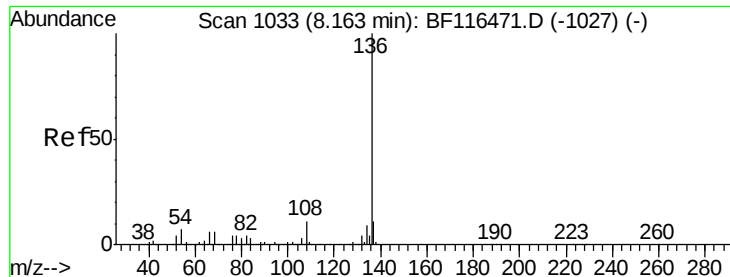
70 100

42 44.1 44.4 66.6#

101 0.0 7.1 10.7#

130 2.0 15.8 23.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

Tgt Ion:136 Resp: 390334

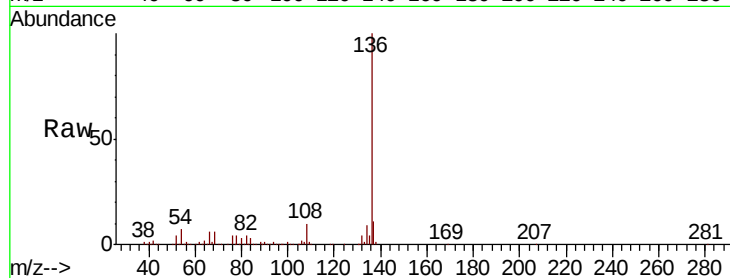
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 7.1 5.8 8.6

68 6.2 5.1 7.7

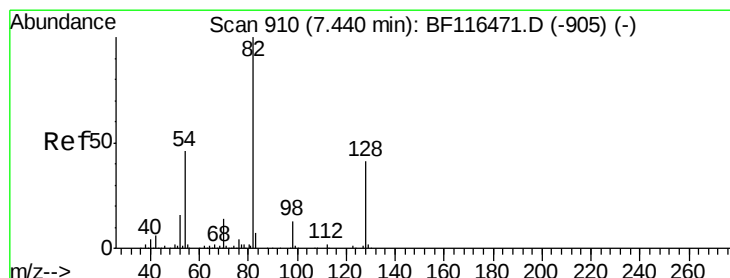
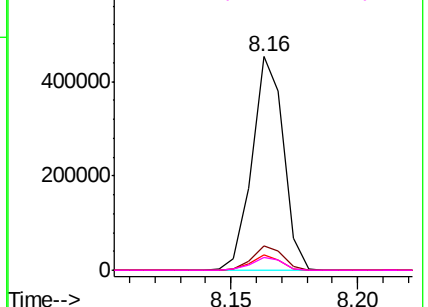
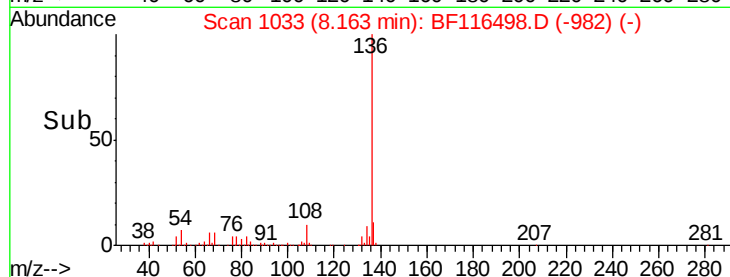


Abundance Ion 136.00 (135.70 to 136.70): E

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: 55.910 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

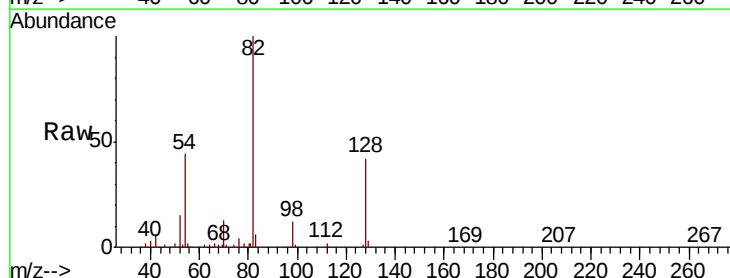
Tgt Ion: 82 Resp: 398897

Ion Ratio Lower Upper

82 100

128 41.7 32.2 48.4

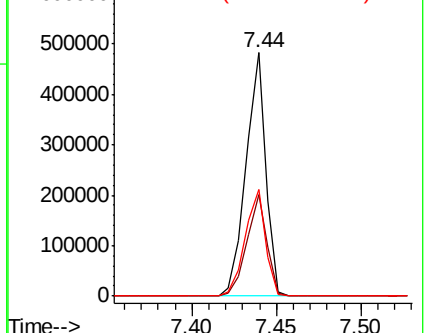
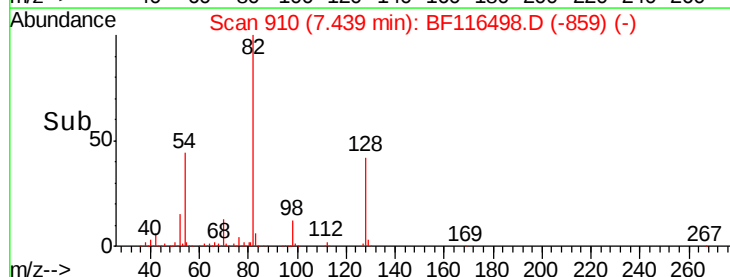
54 44.0 36.5 54.7

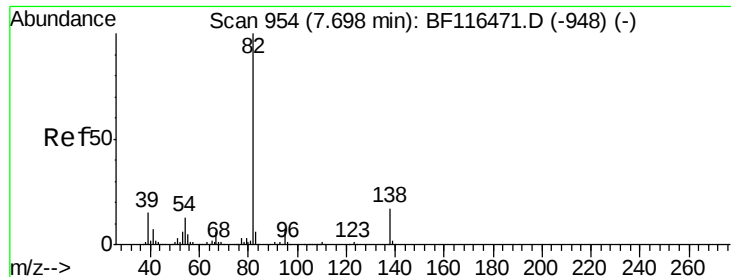


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 28.242 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

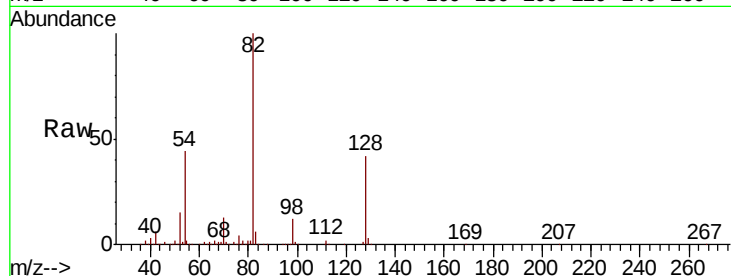
Tgt Ion: 82 Resp: 397077

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

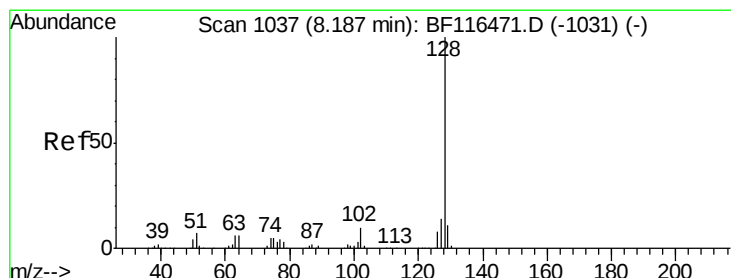
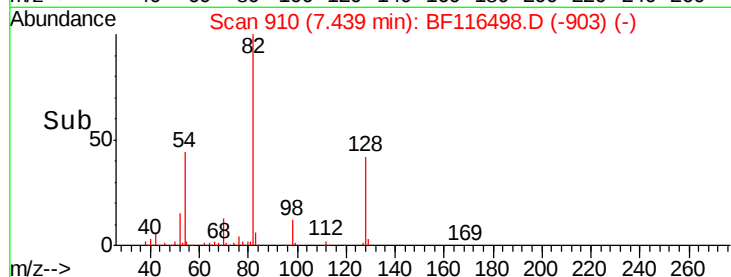
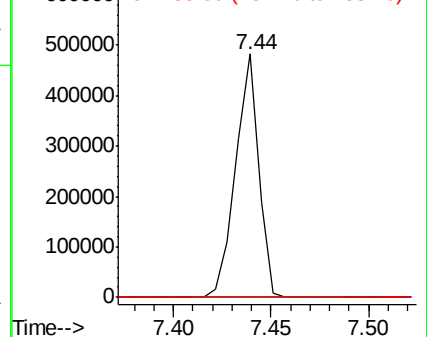
138 0.0 13.3 19.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 2.154 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

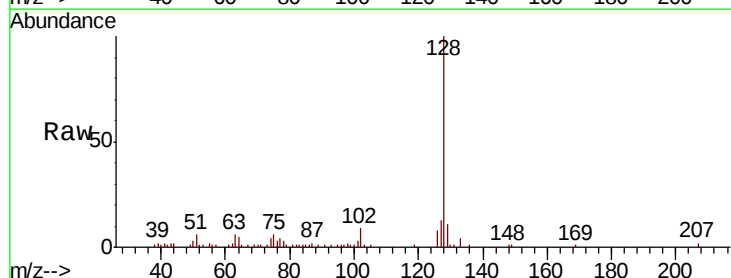
Tgt Ion: 128 Resp: 40675

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

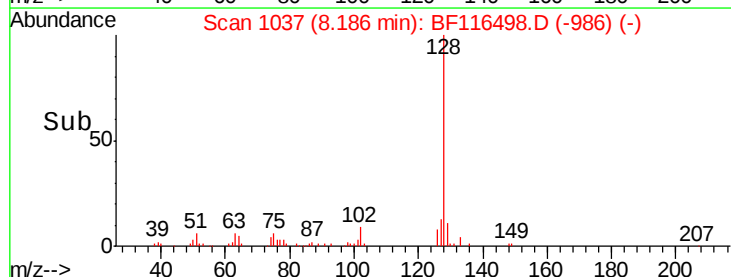
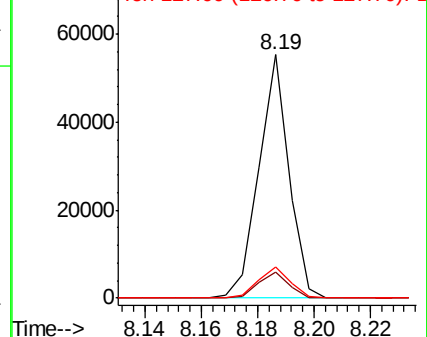
127 12.9 10.9 16.3

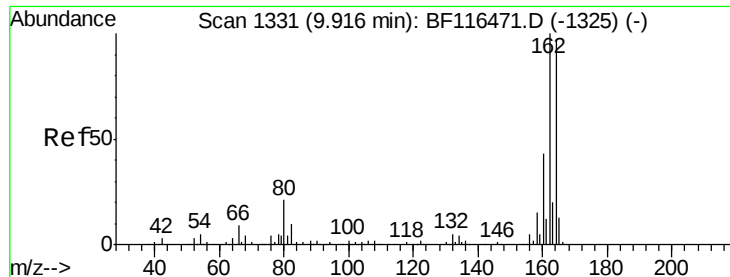


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

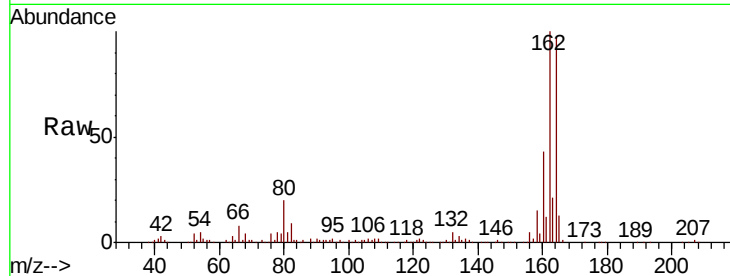




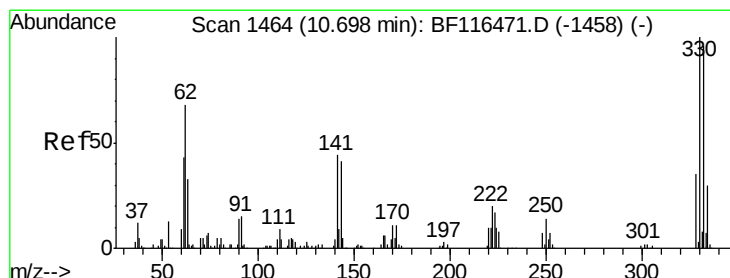
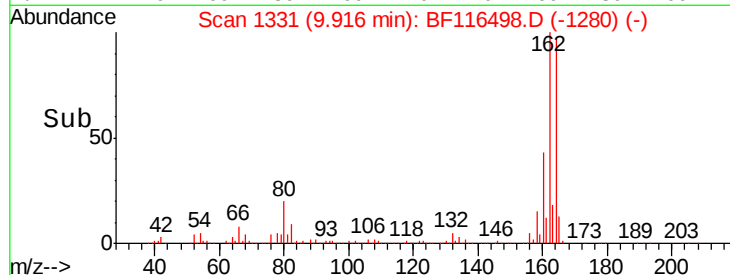
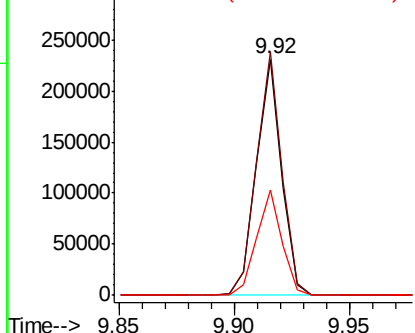
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.00 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Instrument :
BNA_F
ClientSampleId :
T8-A1-A4-(0-2)

Tgt Ion:164 Resp: 176493
Ion Ratio Lower Upper
164 100
162 103.0 82.6 123.8
160 44.7 35.8 53.8

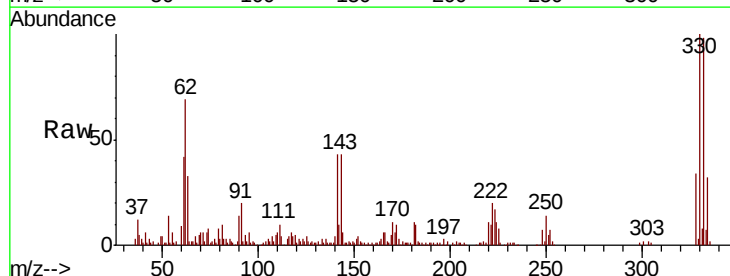


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

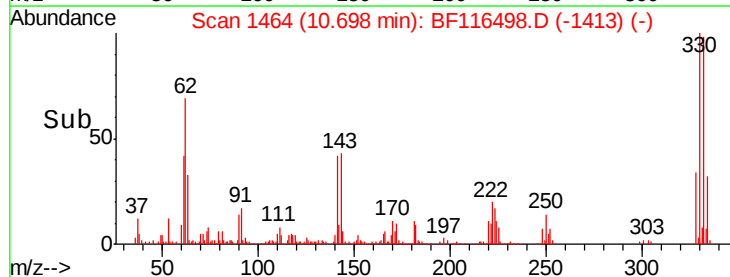
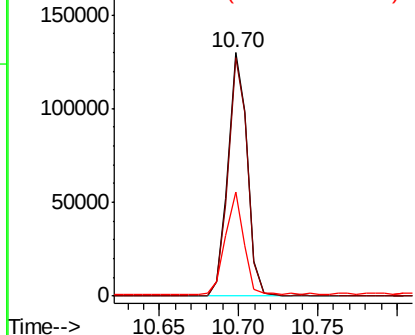


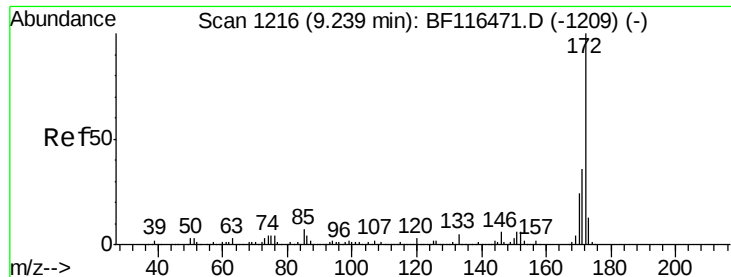
#42
2,4,6-Tribromophenol
Concen: 72.662 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.00 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Tgt Ion:330 Resp: 110119
Ion Ratio Lower Upper
330 100
332 97.2 77.2 115.8
141 41.4 33.3 49.9



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

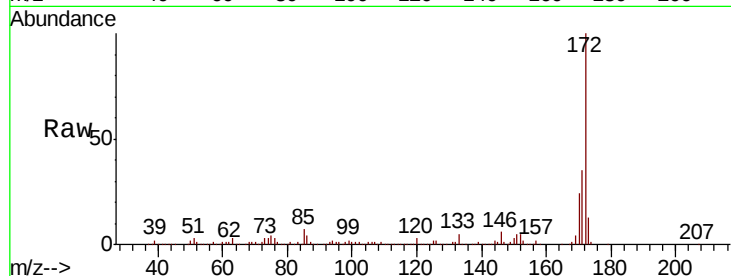




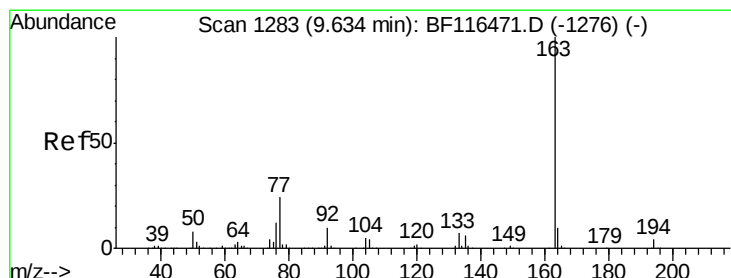
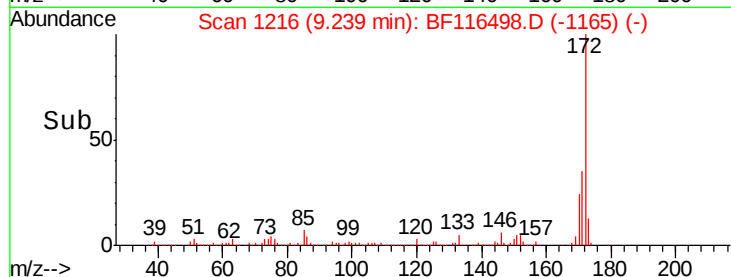
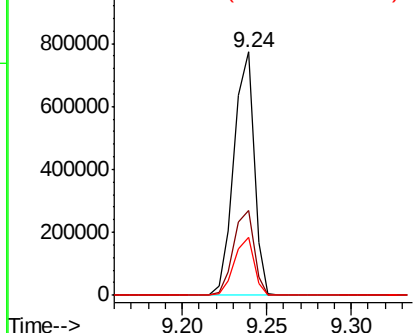
#45
 2-Fluorobiphenyl
 Concen: 58.667 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

Tgt Ion:	172	Resp:	642960
Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.9	43.3
170	23.7	19.4	29.0

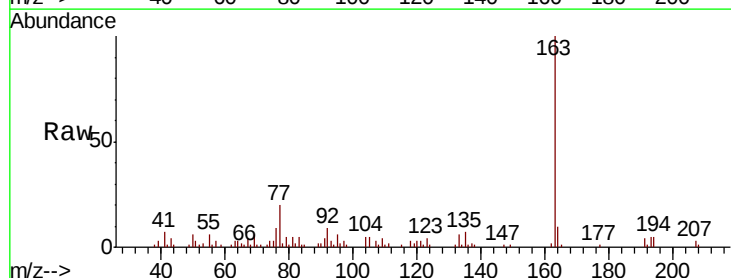


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

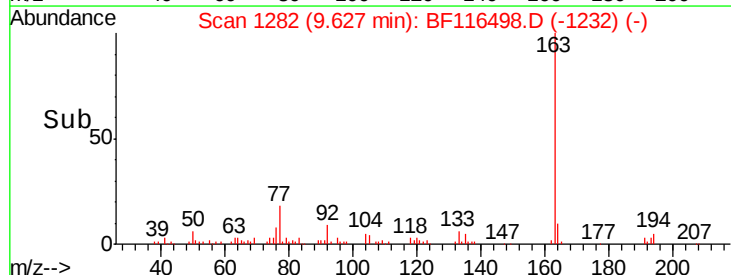
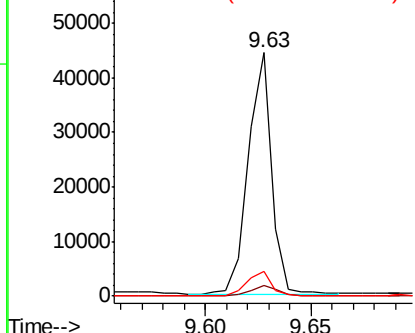


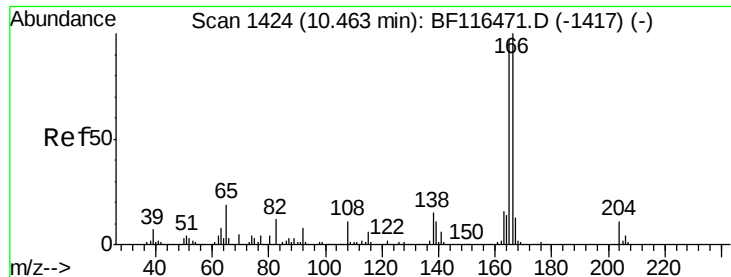
#50
 Dimethylphthalate
 Concen: 2.753 ng
 RT: 9.63 min Scan# 1282
 Delta R.T. -0.01 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Tgt Ion:	163	Resp:	33901
Ion	Ratio	Lower	Upper
163	100		
194	4.5	2.9	4.3#
164	10.1	8.2	12.2



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





#58

Fluorene

Concen: 2.375 ng

RT: 10.46 min Scan# 1424

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

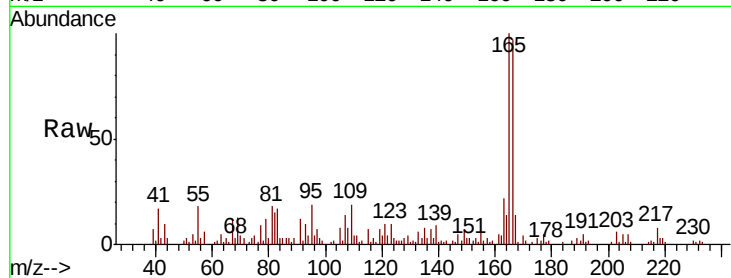
Tgt Ion:166 Resp: 26421

Ion Ratio Lower Upper

166 100

165 102.8 77.4 116.0

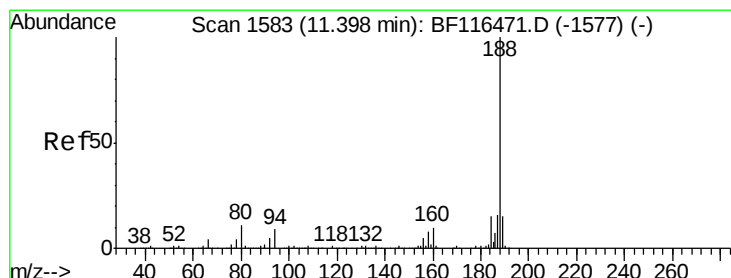
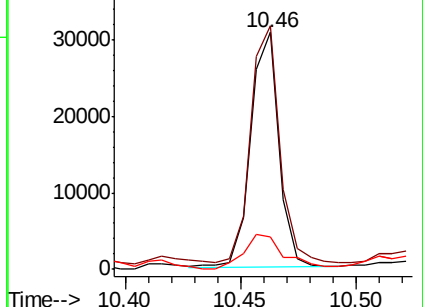
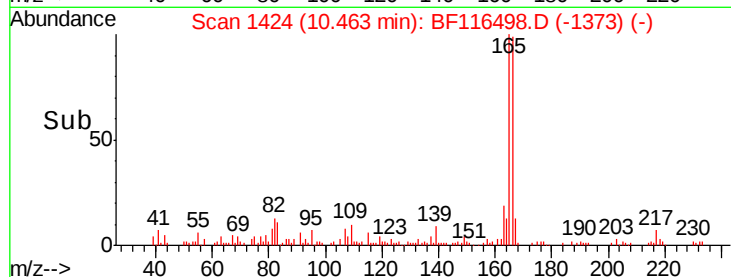
167 13.9 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

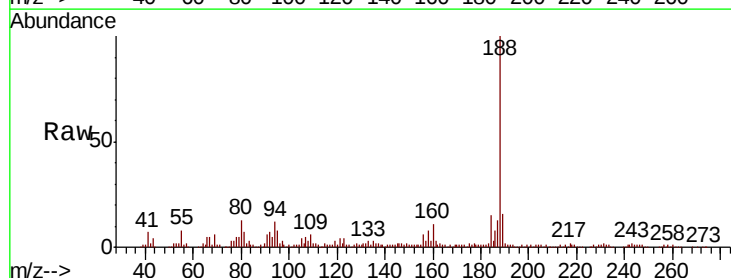
Tgt Ion:188 Resp: 258038

Ion Ratio Lower Upper

188 100

94 11.8 7.4 11.2#

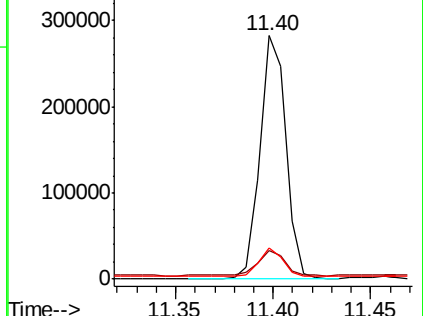
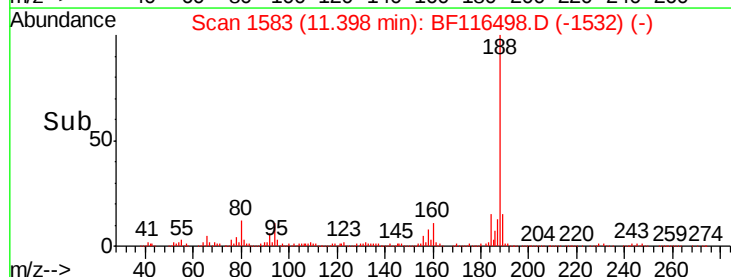
80 12.9 8.6 12.8#

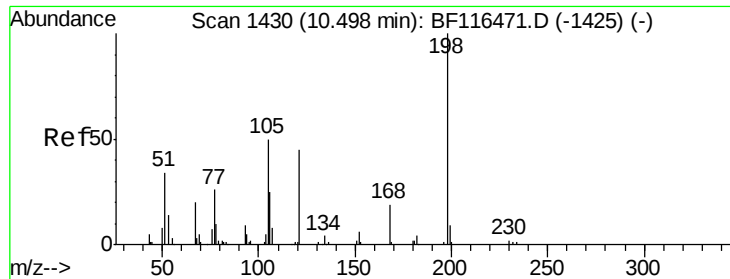


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

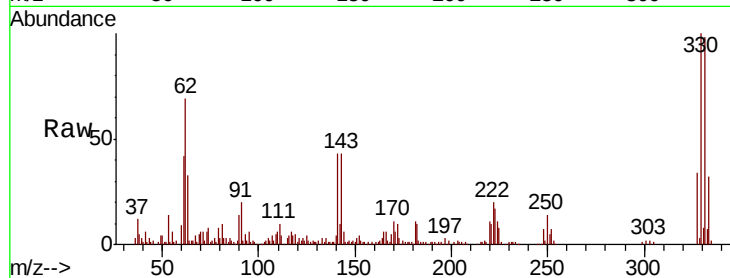




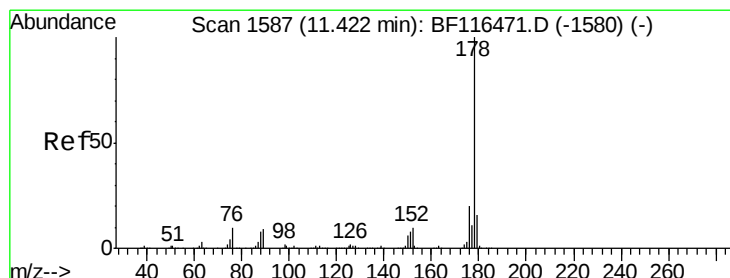
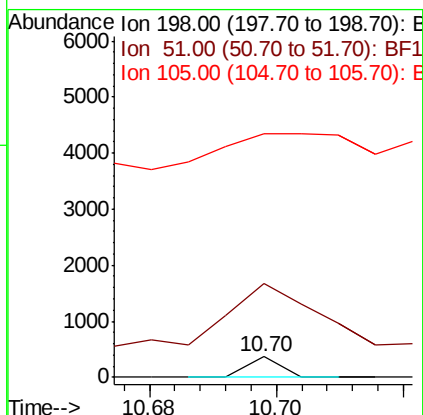
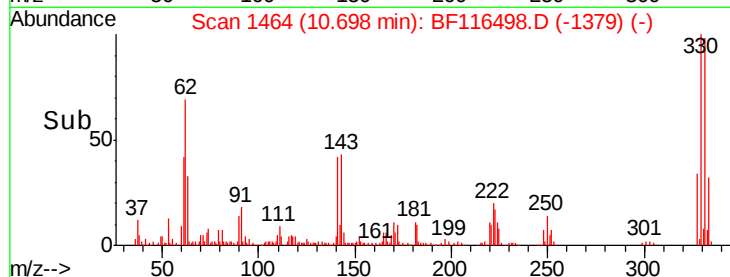
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.110 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.20 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

Tgt Ion:198 Resp: 130
 Ion Ratio Lower Upper
 198 100
 51 452.4 30.4 70.4#
 105 1178.8 32.8 72.8#

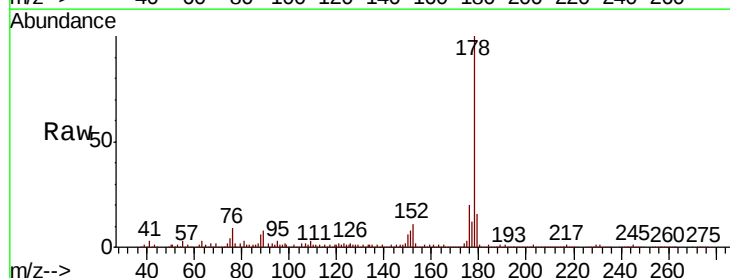


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

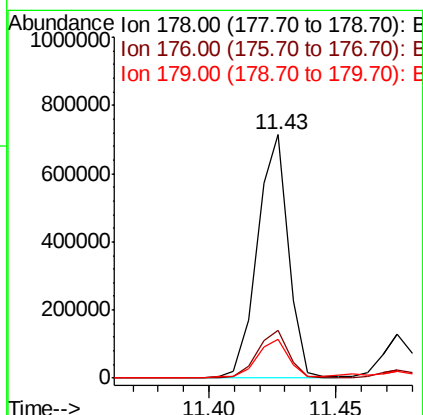
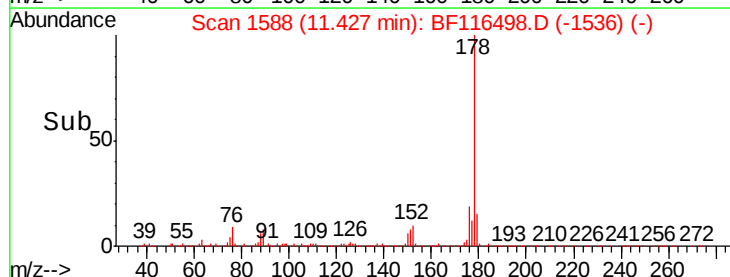


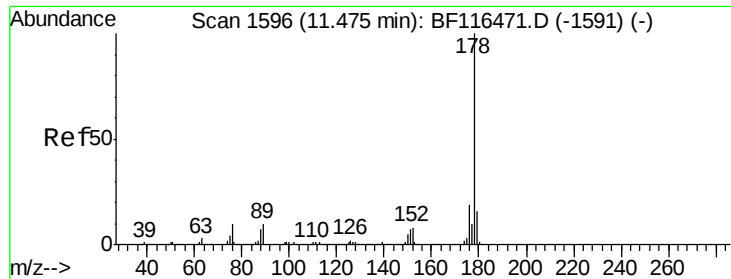
#71
 Phenanthrene
 Concen: 43.022 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. 0.01 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Tgt Ion:178 Resp: 604756
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.6
 179 15.7 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





#72

Anthracene

Concen: 7.102 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

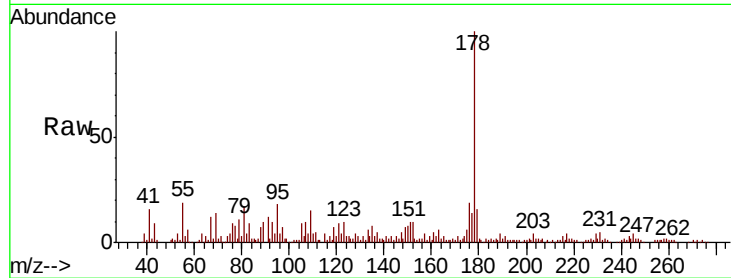
Tgt Ion:178 Resp: 100311

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 16.2 12.5 18.7

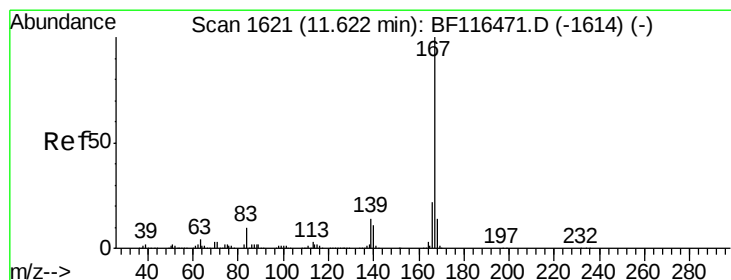
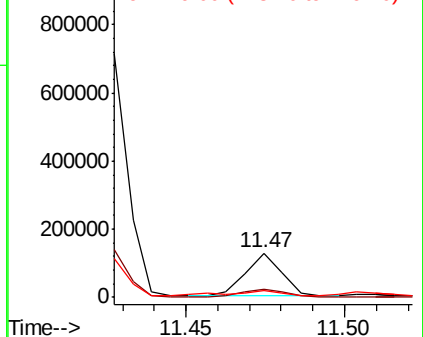
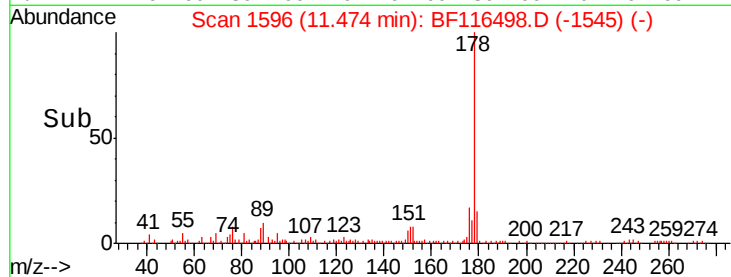


Abundance

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: 3.584 ng

RT: 11.62 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

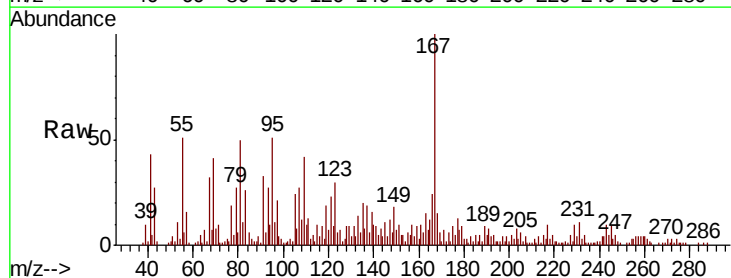
Tgt Ion:167 Resp: 45440

Ion Ratio Lower Upper

167 100

166 24.3 17.8 26.6

139 15.5 10.9 16.3

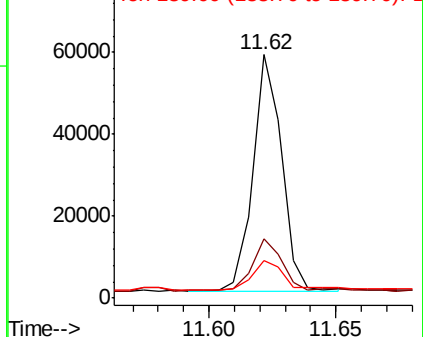
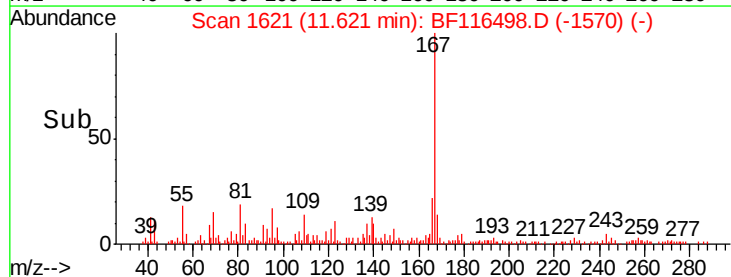


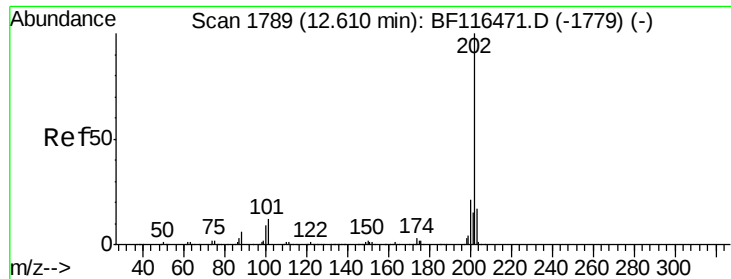
Abundance

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: 45.201 ng

RT: 12.62 min Scan# 1790

Delta R.T. 0.01 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

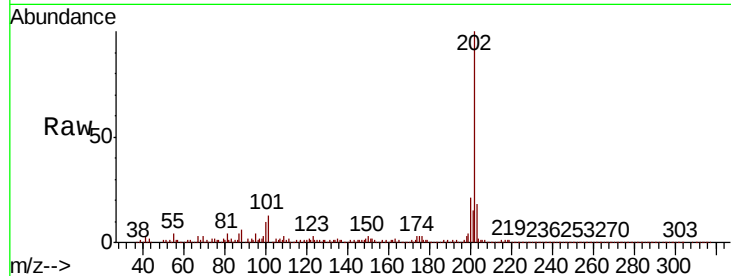
Tgt Ion:202 Resp: 656898

Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.5

203 18.3 0.0 37.5

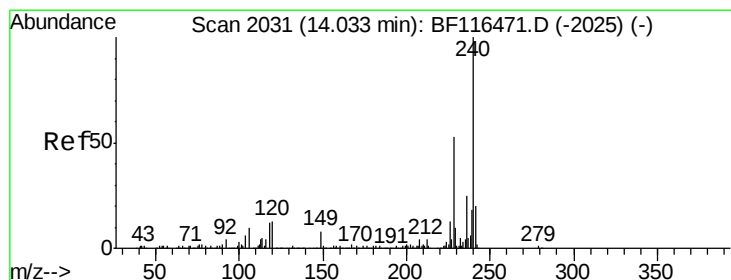
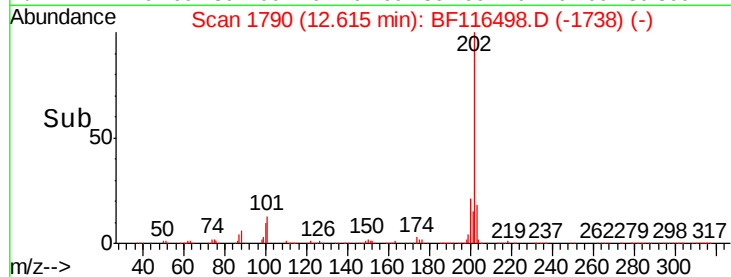
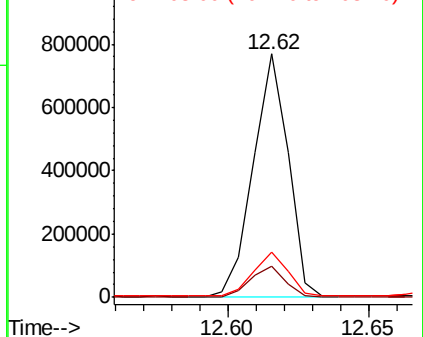


Abundance

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: 14.04 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

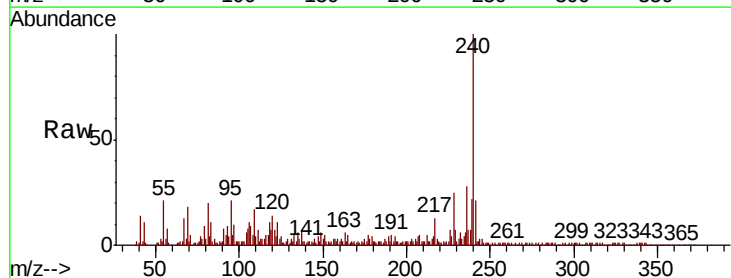
Tgt Ion:240 Resp: 189488

Ion Ratio Lower Upper

240 100

120 13.8 10.5 15.7

236 27.5 20.2 30.2

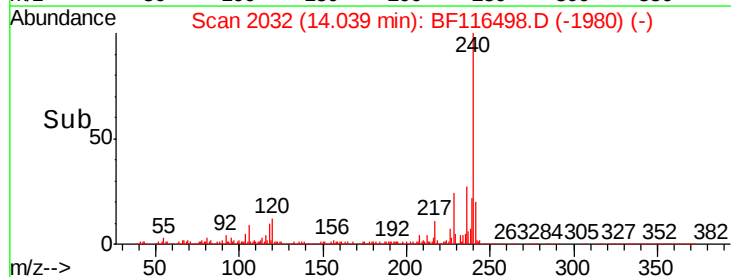
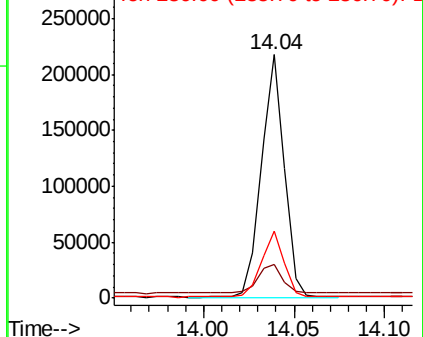


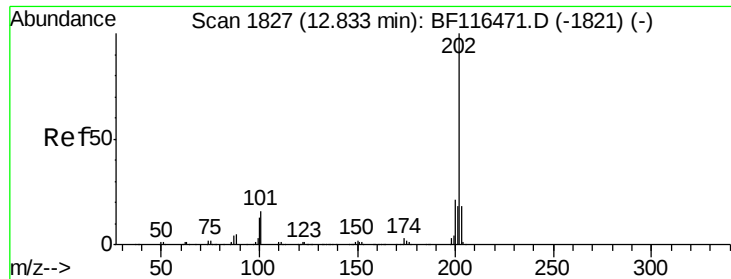
Abundance

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

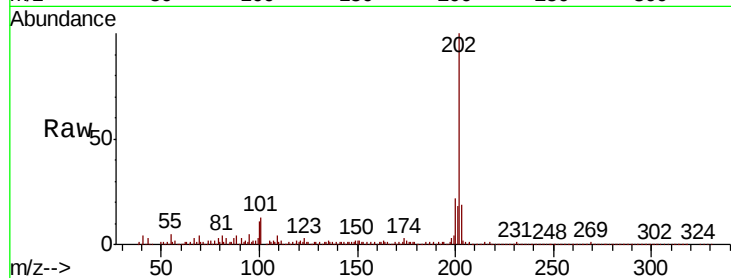




#78
 Pyrene
 Concen: 36.530 ng
 RT: 12.84 min Scan# 1829
 Delta R.T. 0.01 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.0	25.4
203	18.8	14.2	21.4

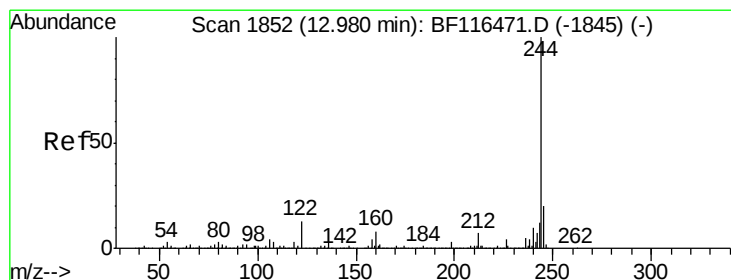
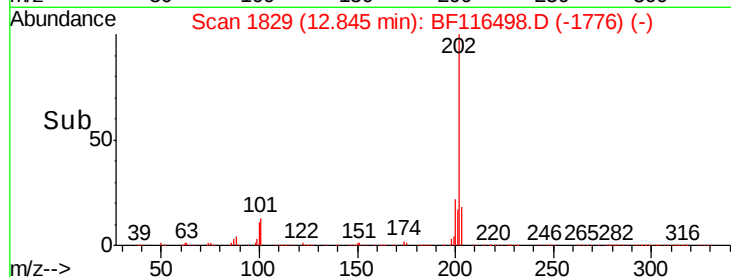
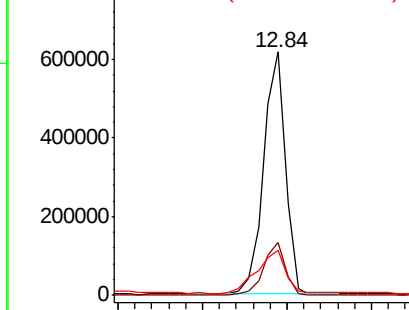


Abundance

Ion 202.00 (201.70 to 202.70): E

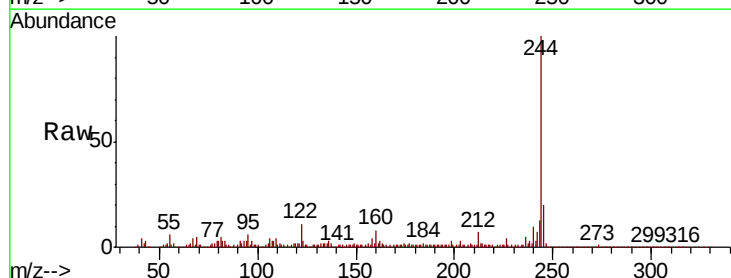
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
 Terphenyl-d14
 Concen: 48.264 ng
 RT: 12.99 min Scan# 1853
 Delta R.T. 0.01 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	11.2	10.2	15.4

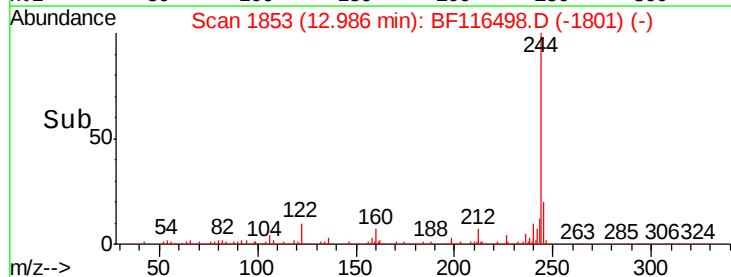
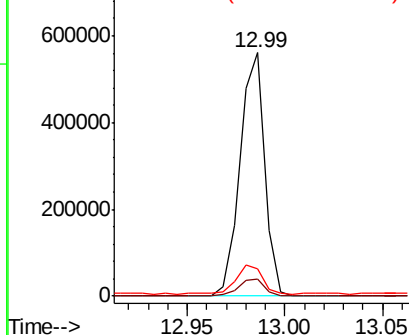


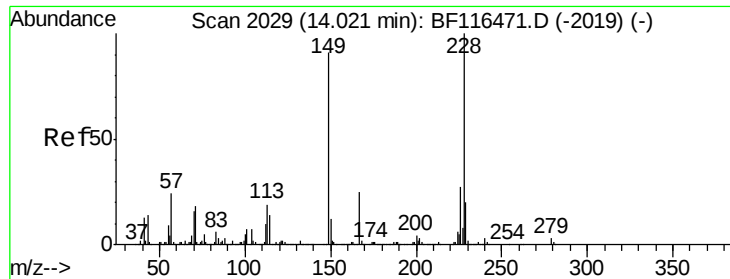
Abundance

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

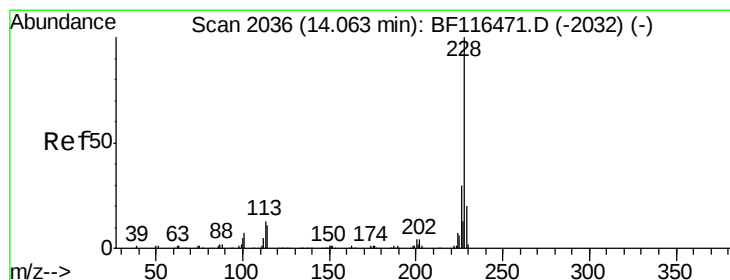
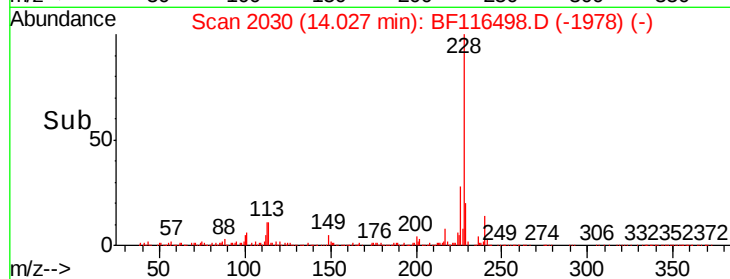
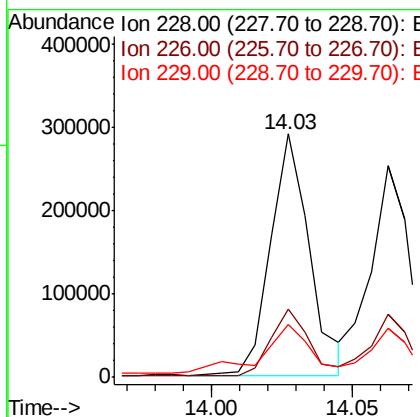
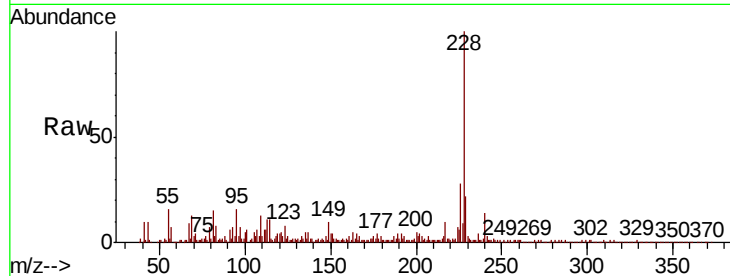




#81
Benzo(a)anthracene
Concen: 22.631 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.01 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

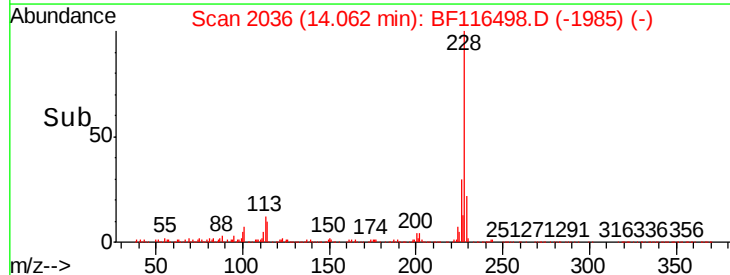
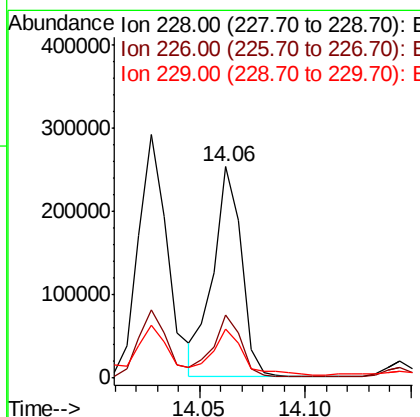
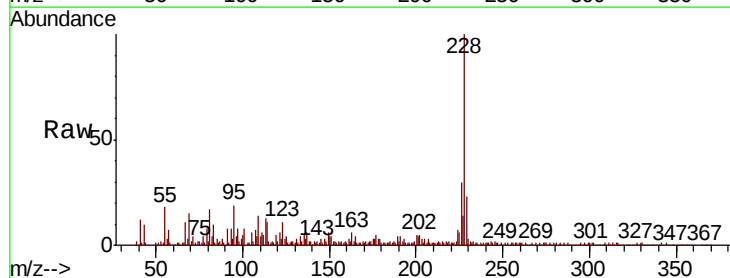
Instrument :
BNA_F
ClientSampleId :
T8-A1-A4-(0-2)

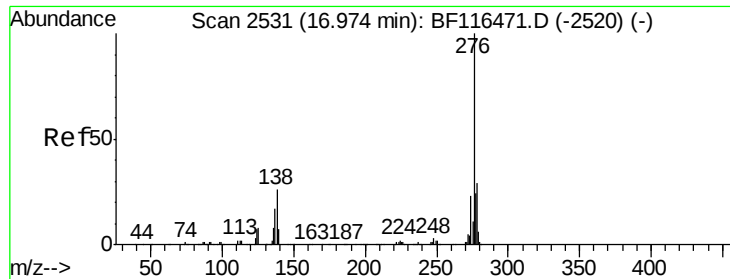
Tgt Ion:228 Resp: 277743
Ion Ratio Lower Upper
228 100
226 27.8 21.8 32.6
229 21.5 15.9 23.9



#83
Chrysene
Concen: 18.834 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.00 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Tgt Ion:228 Resp: 234273
Ion Ratio Lower Upper
228 100
226 30.0 24.2 36.2
229 23.2 15.8 23.6

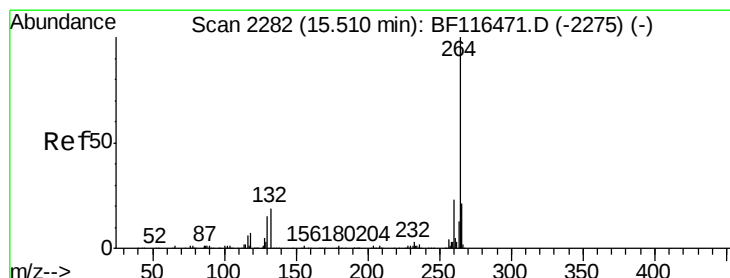
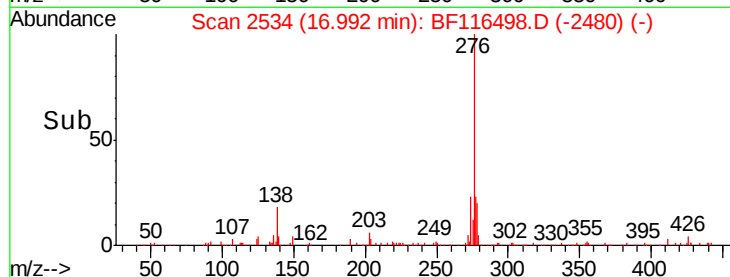
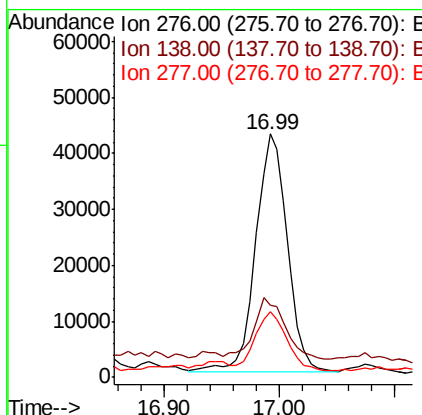
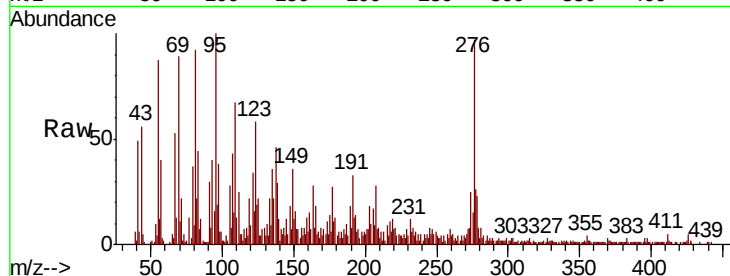




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.581 ng
 RT: 16.99 min Scan# 2534
 Delta R.T. 0.02 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

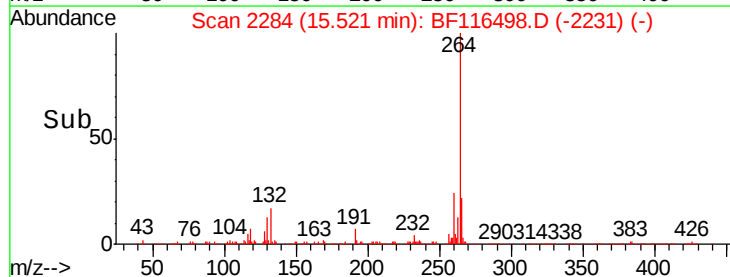
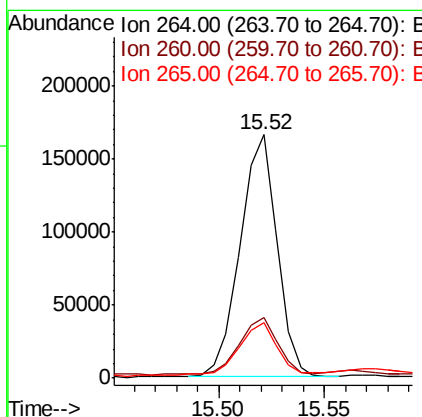
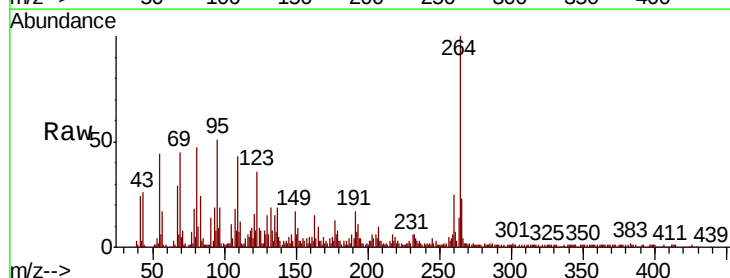
Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

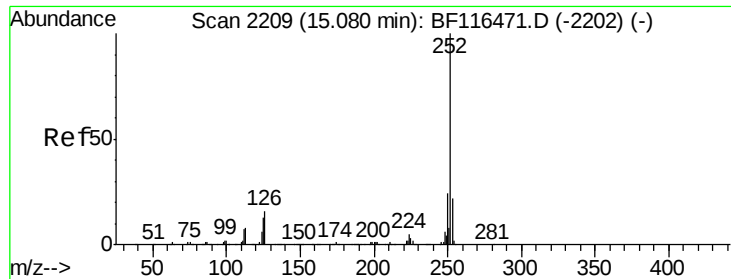
Tgt Ion:	276	Resp:	80778
Ion	Ratio	Lower	Upper
276	100		
138	25.3	22.9	34.3
277	24.8	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.52 min Scan# 2284
 Delta R.T. 0.01 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Tgt Ion:	264	Resp:	200780
Ion	Ratio	Lower	Upper
264	100		
260	25.1	18.8	28.2
265	22.8	17.1	25.7

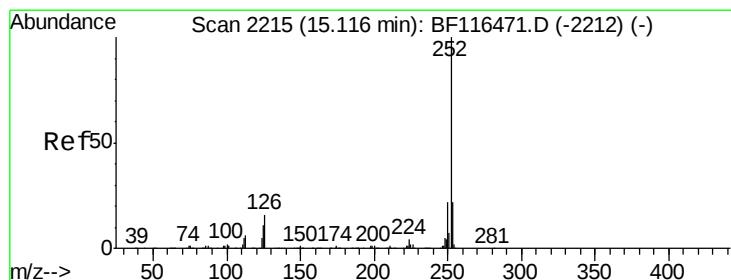
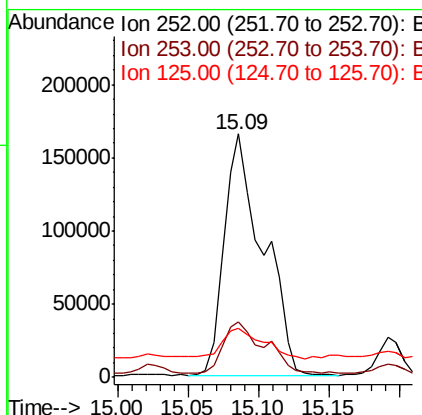
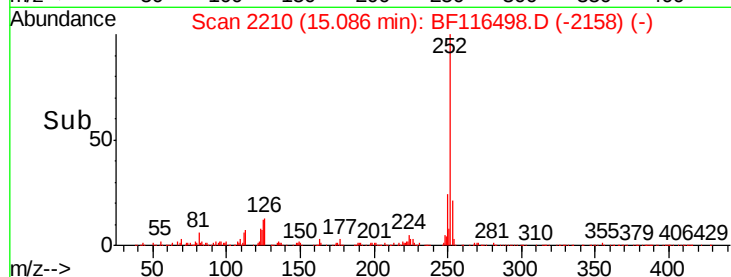
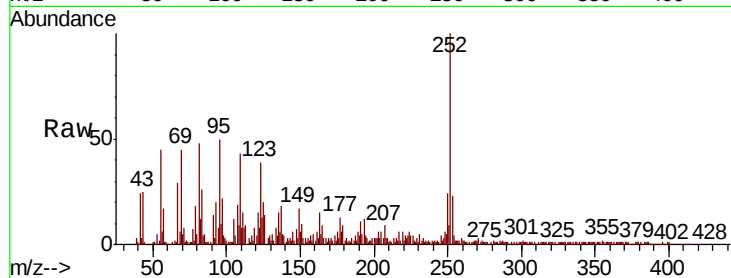




#88
Benzo(b)fluoranthene
Concen: 25.509 ng
RT: 15.09 min Scan# 2210
Delta R.T. 0.01 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

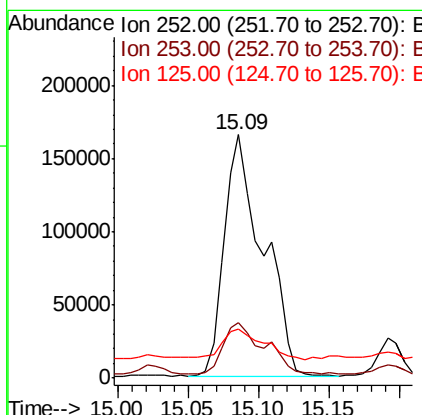
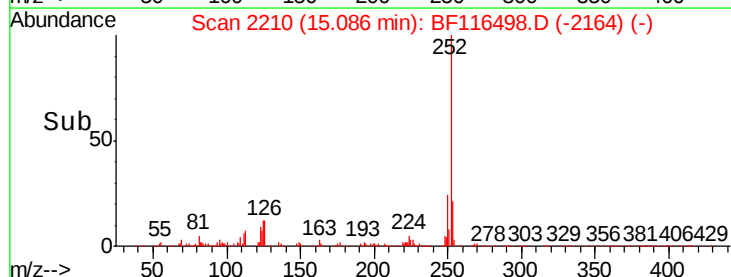
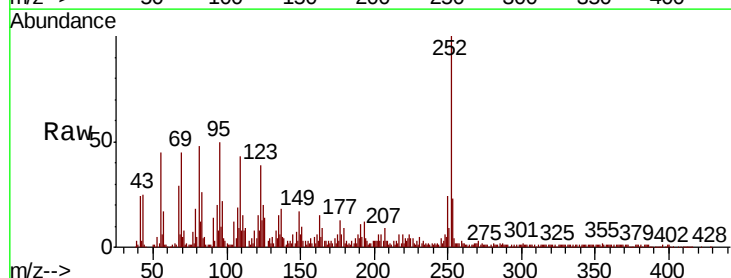
Instrument :
BNA_F
ClientSampleId :
T8-A1-A4-(0-2)

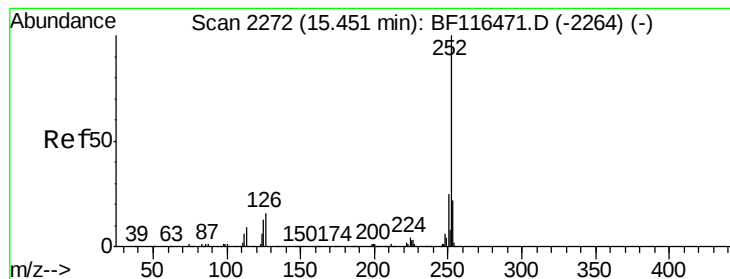
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	20.0	10.1	15.1#



#89
Benzo(k)fluoranthene
Concen: 28.157 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.03 min
Lab File: BF116498.D
Acq: 24 Aug 2019 00:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	20.0	9.1	13.7#





#90

Benzo(a)pyrene

Concen: 13.939 ng

RT: 15.45 min Scan# 2272

Delta R.T. -0.00 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

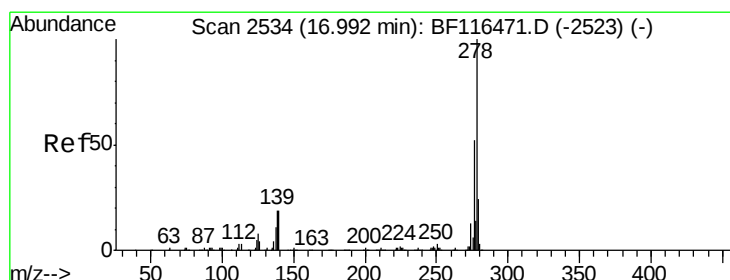
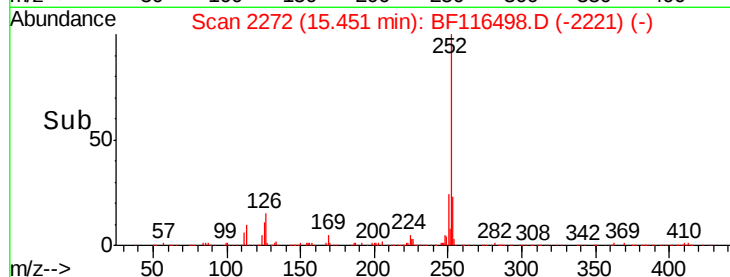
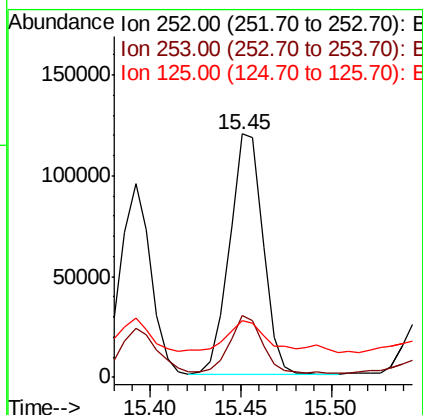
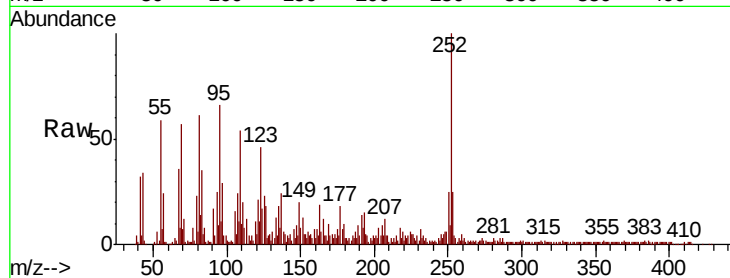
Instrument :

BNA_F

ClientSampleId :

T8-A1-A4-(0-2)

Tgt Ion:	252	Resp:	152795
Ion Ratio	Lower	Upper	
252	100		
253	25.5	17.2	25.8
125	23.1	10.2	15.4#



#91

Dibenzo(a,h)anthracene

Concen: 2.773 ng

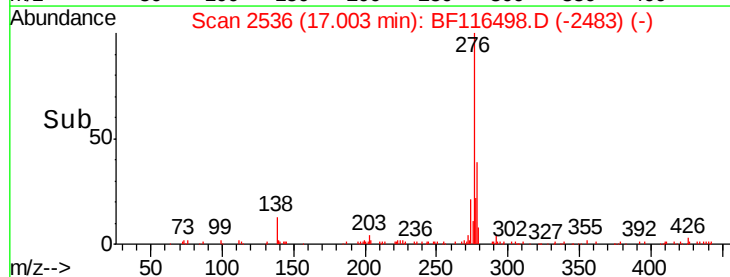
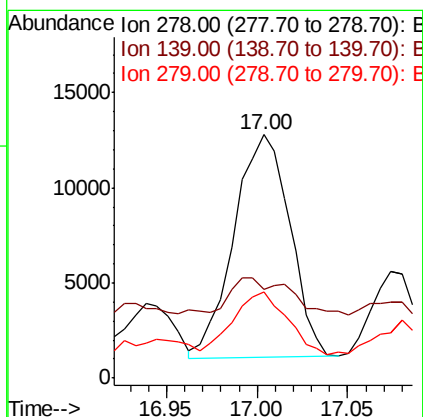
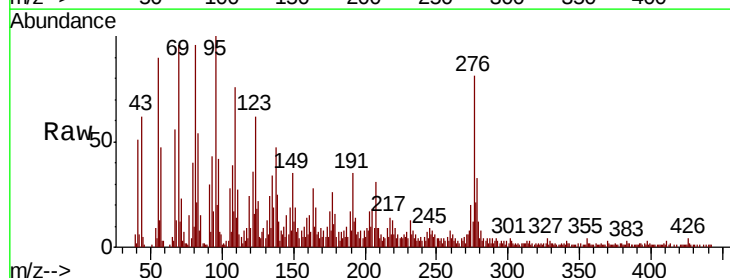
RT: 17.00 min Scan# 2536

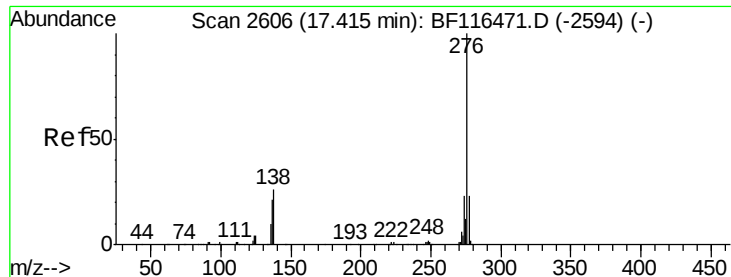
Delta R.T. 0.01 min

Lab File: BF116498.D

Acq: 24 Aug 2019 00:53

Tgt Ion:	278	Resp:	24975
Ion Ratio	Lower	Upper	
278	100		
139	36.6	15.3	22.9#
279	35.2	19.0	28.6#





#92
 Benzo(g,h,i)perylene
 Concen: 8.468 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. 0.02 min
 Lab File: BF116498.D
 Acq: 24 Aug 2019 00:53

Instrument :
 BNA_F
 ClientSampleId :
 T8-A1-A4-(0-2)

Tgt Ion: 276 Resp: 72720
 Ion Ratio Lower Upper
 276 100
 277 26.4 18.7 28.1
 138 30.9 20.8 31.2

