

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091319\
 Data File : BF117040.D
 Acq On : 13 Sep 2019 23:19
 Operator : HP/JU
 Sample : K4852-19RE
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 14 00:20:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	66276	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	269913	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	139552	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	215308	20.00	ng	0.00
76) Chrysene-d12	13.97	240	135310	20.00	ng	0.00
87) Perylene-d12	15.42	264	154619	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	368703	86.85	ng	0.00
7) Phenol-d6	6.45	99	512543	93.42	ng	0.00
23) Nitrobenzene-d5	7.38	82	317088	61.73	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	108860	93.34	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	542973	60.84	ng	0.00
79) Terphenyl-d14	12.92	244	437138	60.39	ng	0.00

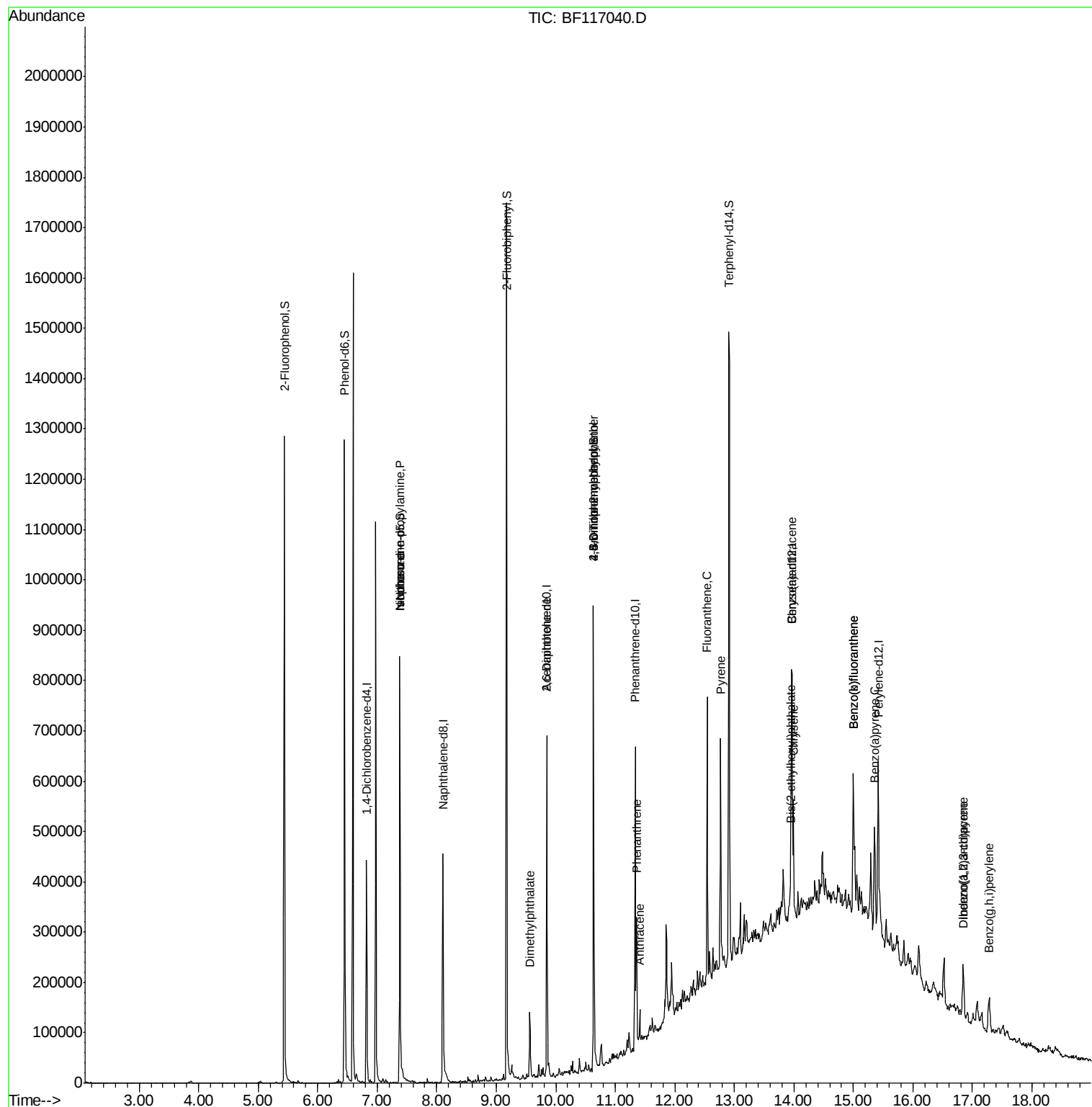
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.45	77	728	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.38	70	40839	12.225	ng	# 79
25) Isophorone	7.38	82	317086	34.862	ng	# 66
50) Dimethylphthalate	9.56	163	49949	5.055	ng	99
51) 2,6-Dinitrotoluene	9.85	165	17546	8.719	ng	# 26
65) 4,6-Dinitro-2-methylphenol	10.64	198	109	6.997	ng	# 1
67) 4-Bromophenyl-phenylether	10.63	248	7334	3.335	ng	# 1
71) Phenanthrene	11.36	178	95552	7.813	ng	100
72) Anthracene	11.41	178	38968	3.121	ng	97
75) Fluoranthene	12.55	202	230161	18.317	ng	97
78) Pyrene	12.77	202	205604	18.109	ng	99
81) Benzo(a)anthracene	13.96	228	109423	12.104	ng	98
83) Chrysene	13.99	228	89549	10.156	ng	98
84) Bis(2-ethylhexyl)phthalate	13.94	149	31455	4.547	ng	98
86) Indeno(1,2,3-cd)pyrene	16.84	276	66225	10.295	ng	# 93
88) Benzo(b)fluoranthene	15.00	252	175110	18.697	ng	# 95
89) Benzo(k)fluoranthene	15.00	252	175110	19.737	ng	# 95
90) Benzo(a)pyrene	15.36	252	95914	11.670	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	16341	2.496	ng	# 82
92) Benzo(a,h,i)perylene	17.28	276	59610	9.137	ng	99

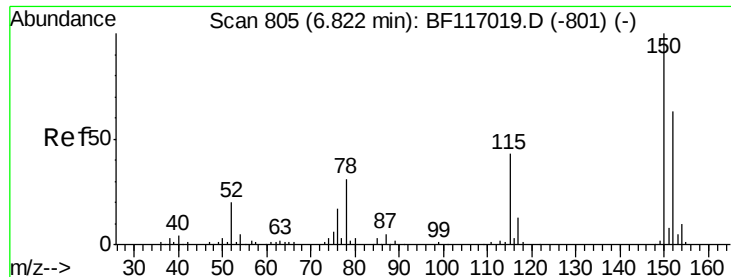
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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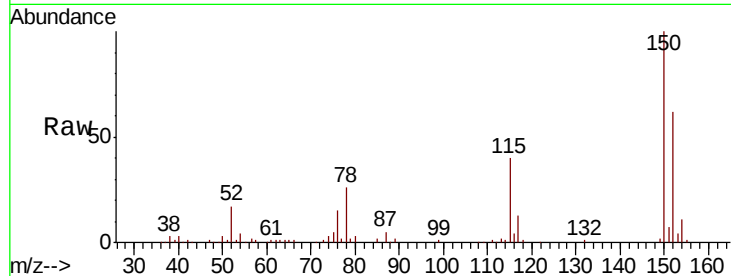


#1

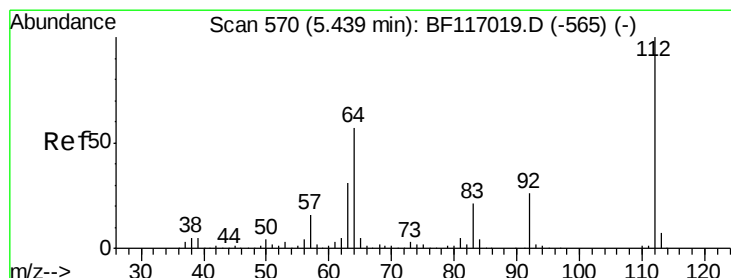
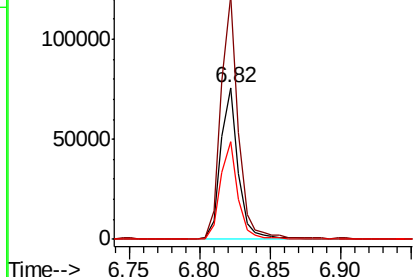
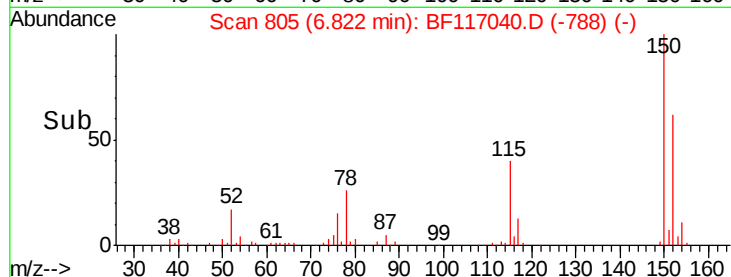
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 66276
Ion Ratio Lower Upper
152 100
150 160.4 127.5 191.3
115 64.0 55.0 82.4



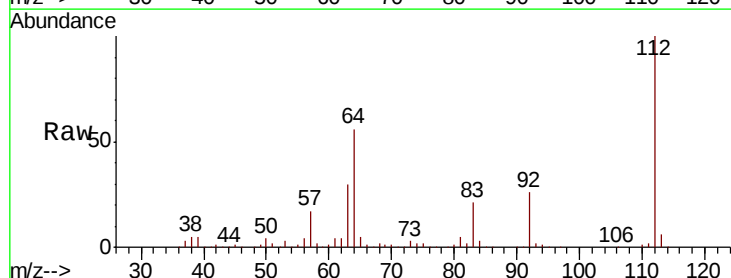
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



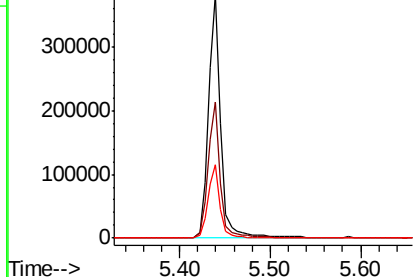
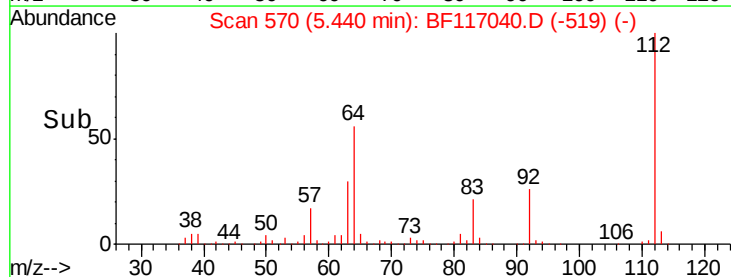
#5

2-Fluorophenol
Concen: 86.854 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion:112 Resp: 368703
Ion Ratio Lower Upper
112 100
64 56.0 45.7 68.5
63 30.2 24.9 37.3



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: 93.425 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampleId :

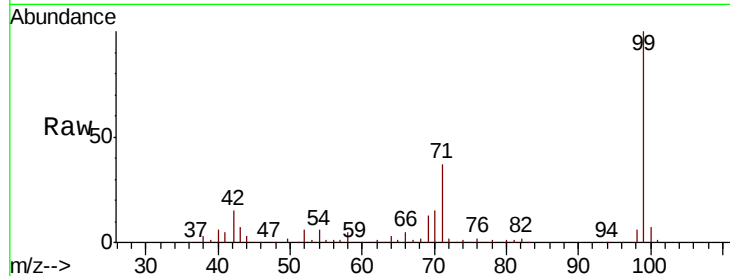
Tot Ion: 99 Resp: 512543

Ion Ratio Lower Upper

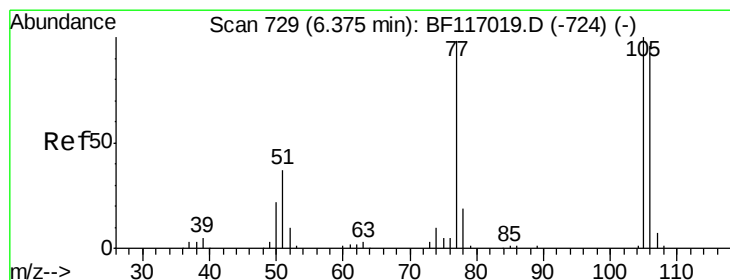
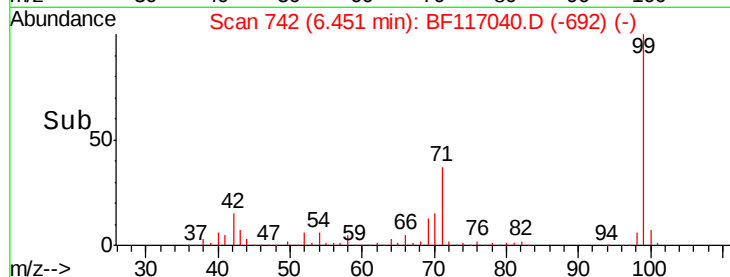
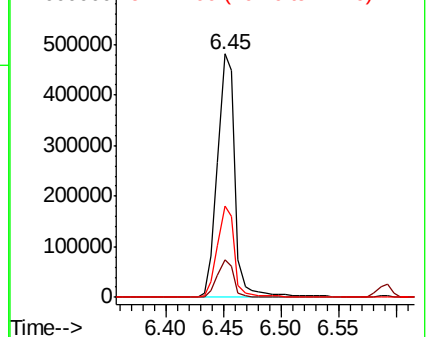
99 100

42 15.2 12.2 18.2

71 37.5 29.8 44.8



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



#9

Benzaldehyde

Concen: Below Cal

RT: 6.45 min Scan# 742

Delta R.T. 0.08 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

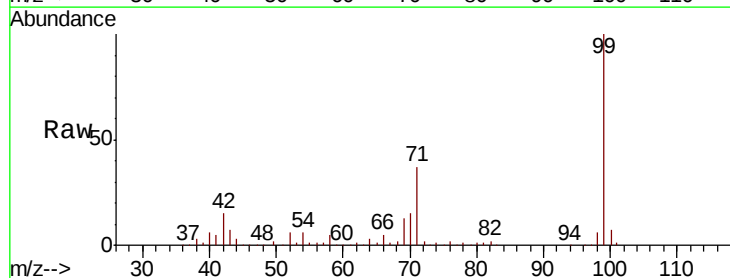
Tgt Ion: 77 Resp: 728

Ion Ratio Lower Upper

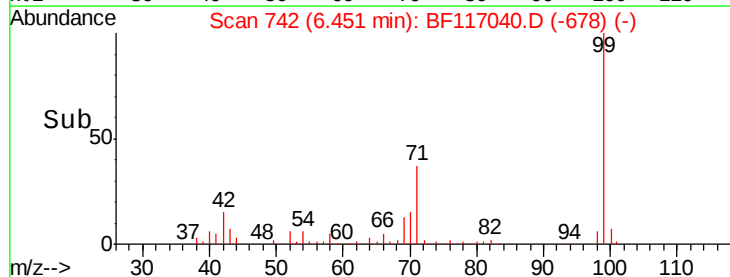
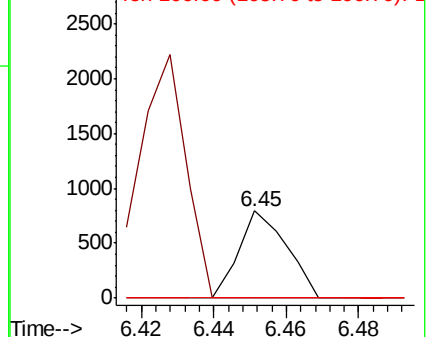
77 100

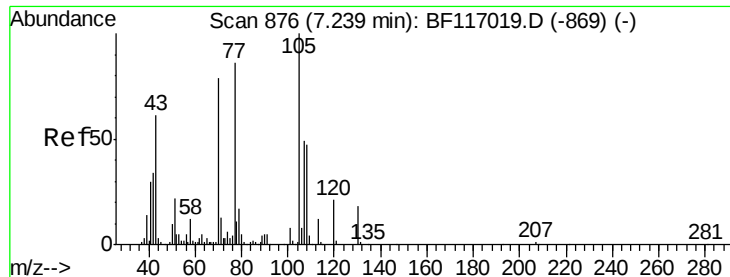
105 0.0 81.8 121.8#

106 0.0 77.3 117.3#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E

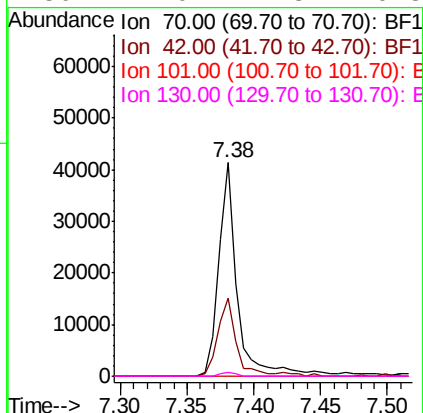
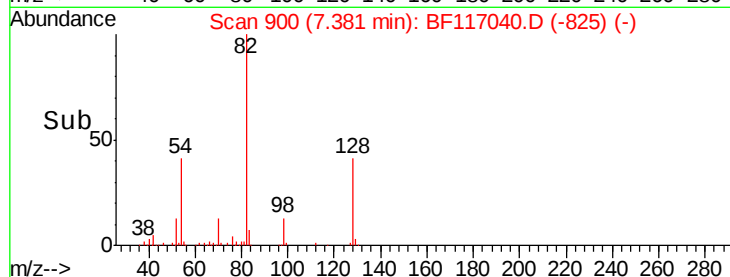
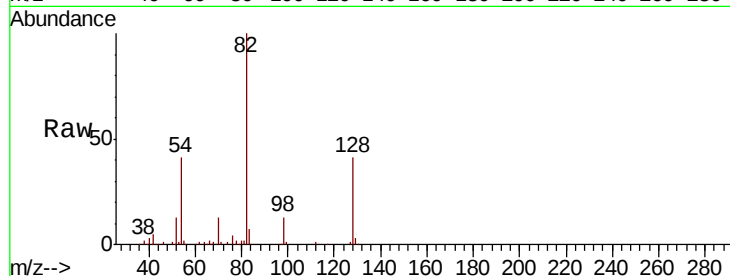




#19
n-Nitroso-di-n-propylamine
Concen: 12.225 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.14 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

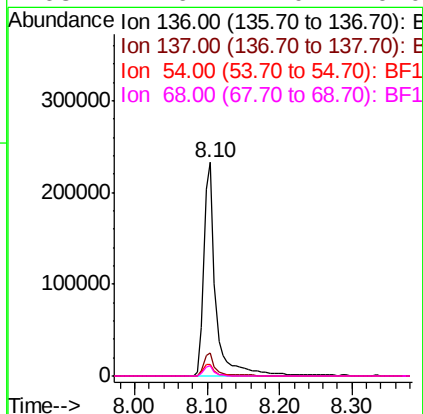
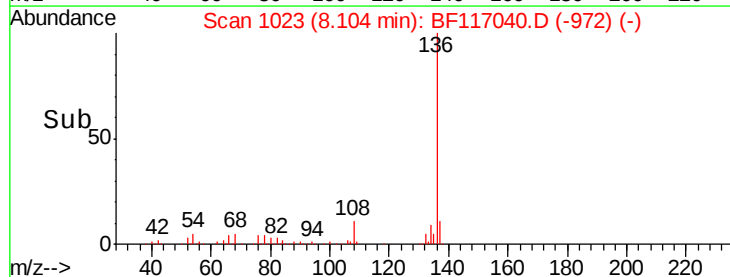
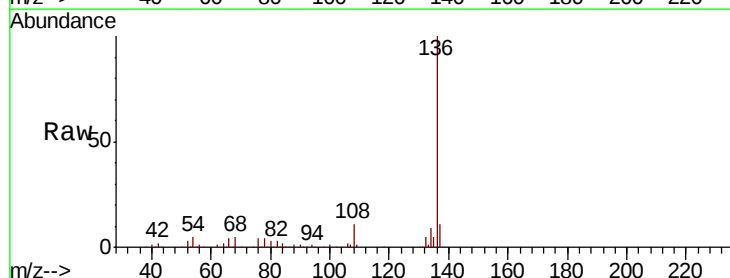
Instrument :
BNA_F
ClientSampleId :

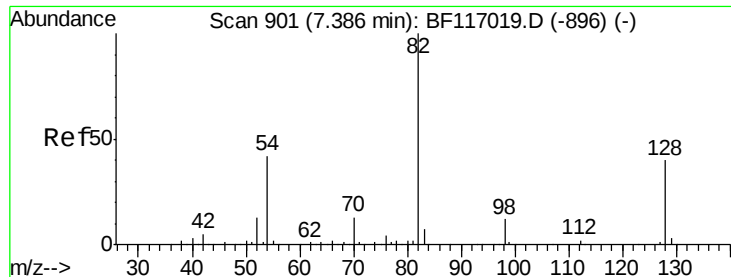
Tot Ion: 70 Resp: 40839
Ion Ratio Lower Upper
70 100
42 36.5 34.0 51.0
101 0.0 7.8 11.6#
130 2.0 17.8 26.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1023
Delta R.T. 0.00 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion: 136 Resp: 269913
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 5.4 4.5 6.7
68 4.6 4.0 6.0

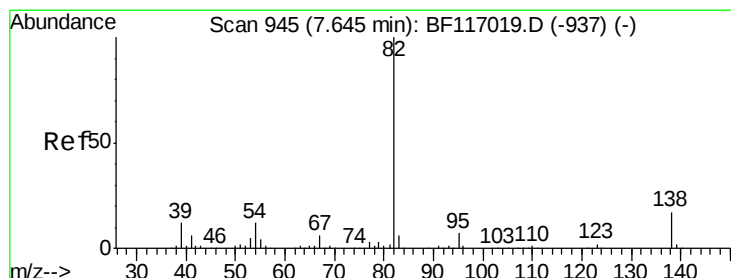
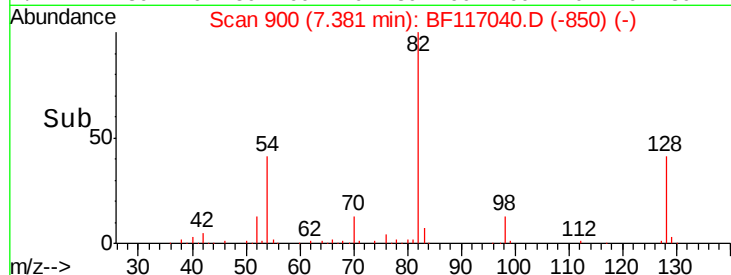
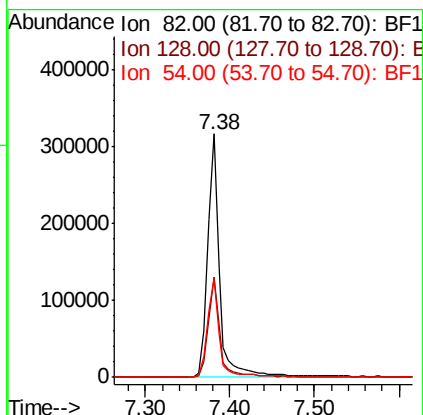
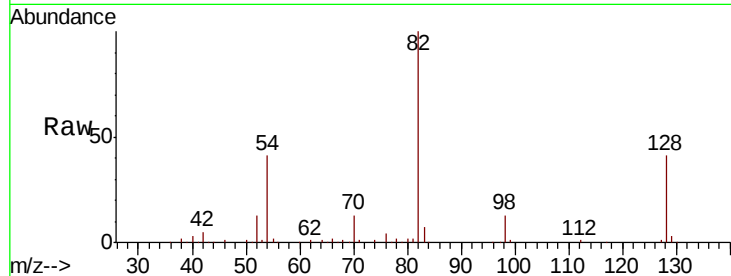




#23
 Nitrobenzene-d5
 Concen: 61.726 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

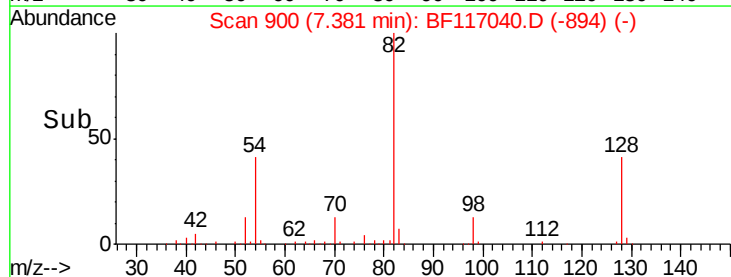
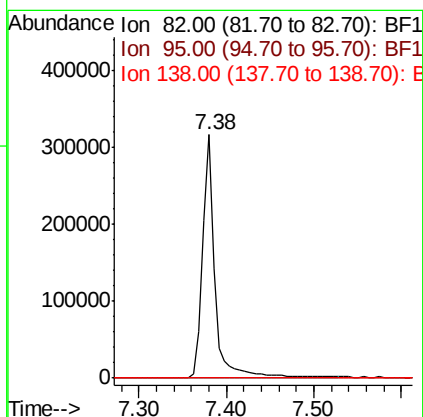
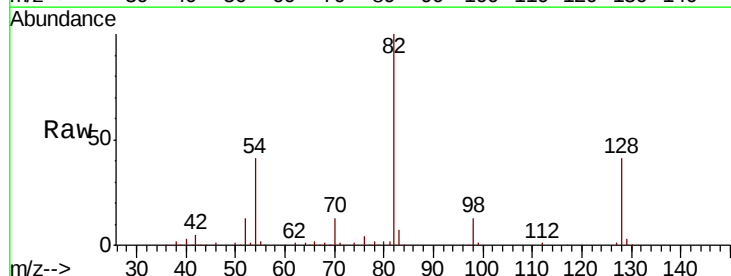
Instrument :
 BNA_F
 ClientSampleId :

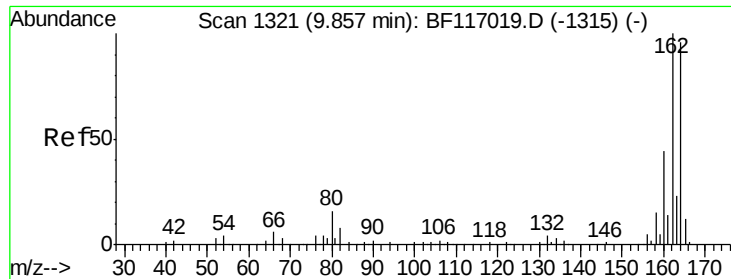
Tot Ion	82	Resp	317088
Ion Ratio	Lower	Upper	
82	100		
128	41.4	32.3	48.5
54	40.7	33.3	49.9



#25
 Isophorone
 Concen: 34.862 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.26 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

Tgt Ion	82	Resp	317086
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.8	8.6#
138	0.0	13.5	20.3#

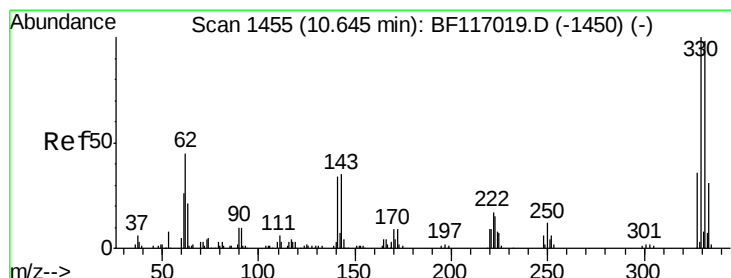
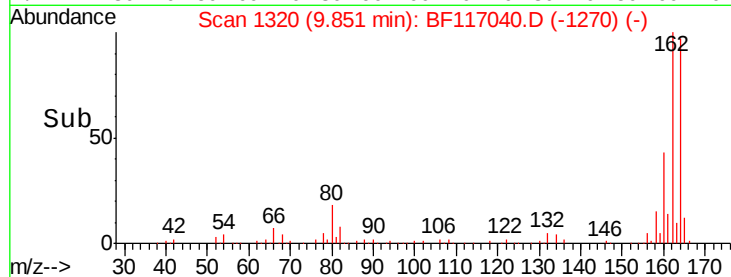
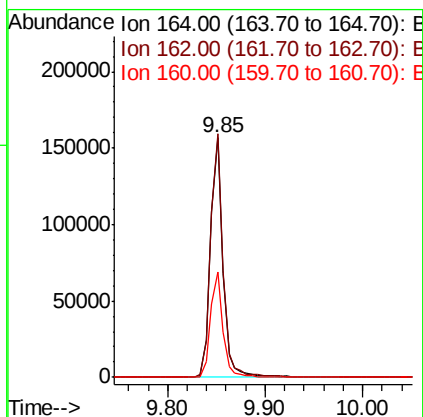
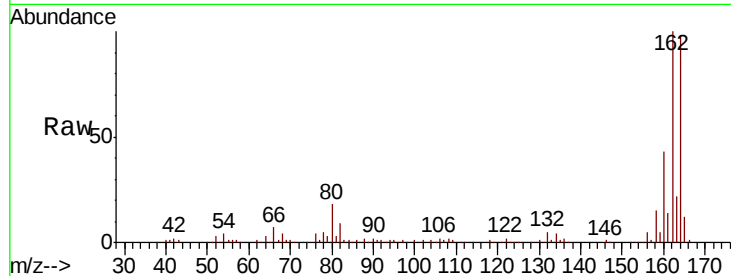




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

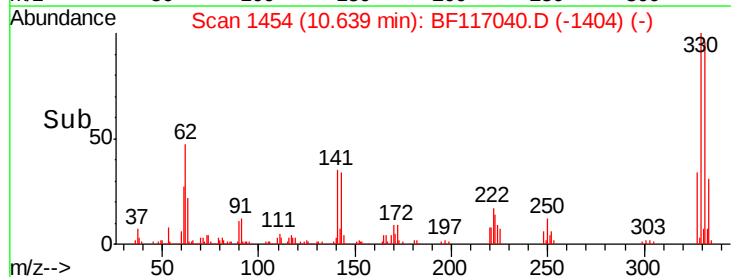
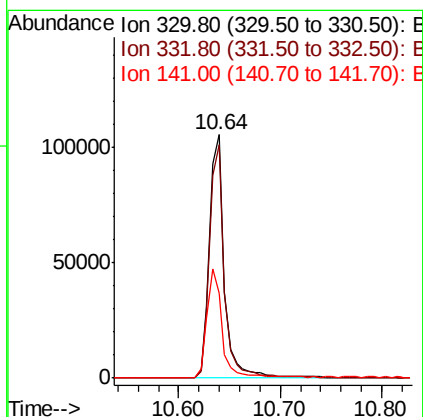
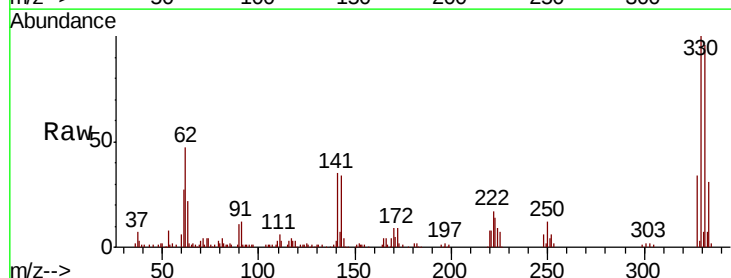
Instrument :
BNA_F
ClientSampleId :

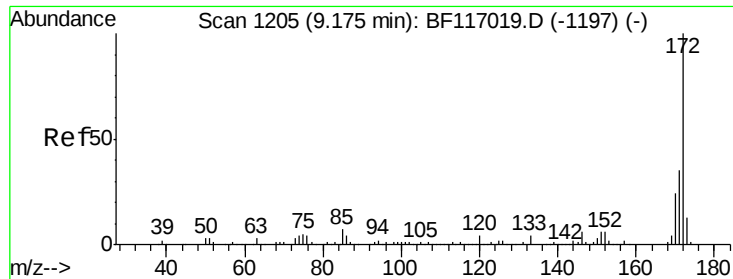
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	83.4	125.2
160	44.2	36.4	54.6



#42
2,4,6-Tribromophenol
Concen: 93.335 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	78.0	117.0
141	45.3	35.8	53.6

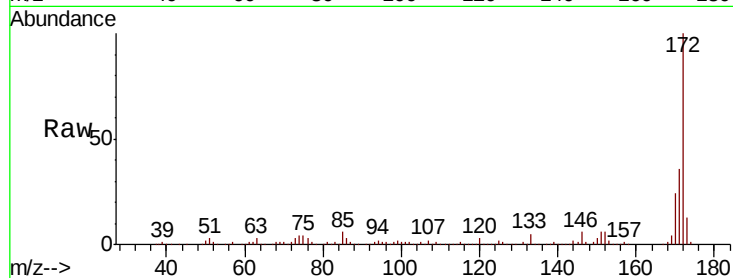




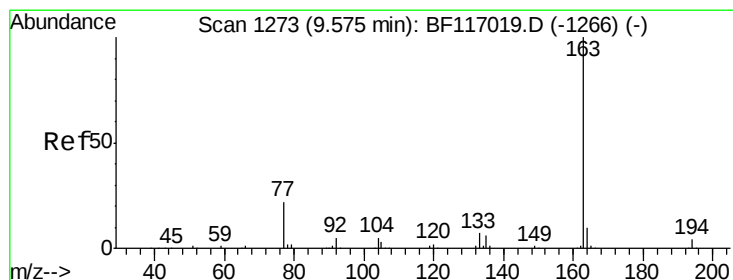
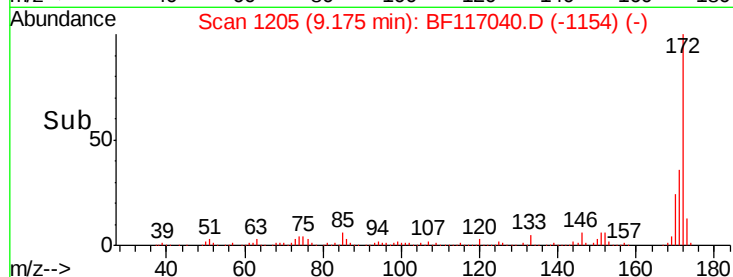
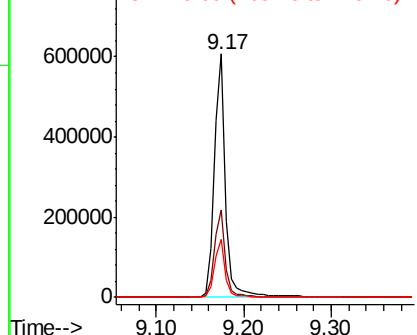
#45
 2-Fluorobiphenyl
 Concen: 60.836 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 542973
 Ion Ratio Lower Upper
 172 100
 171 35.7 28.2 42.2
 170 24.1 18.9 28.3

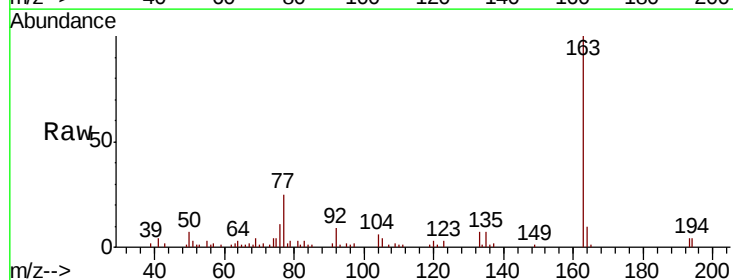


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

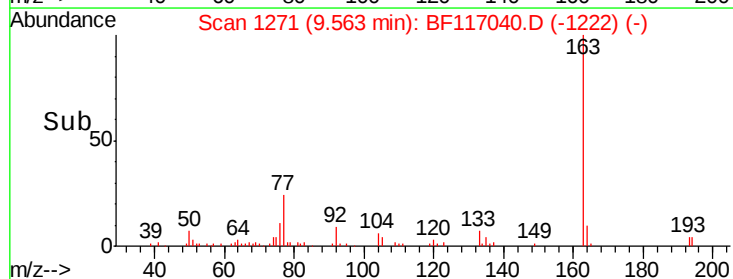
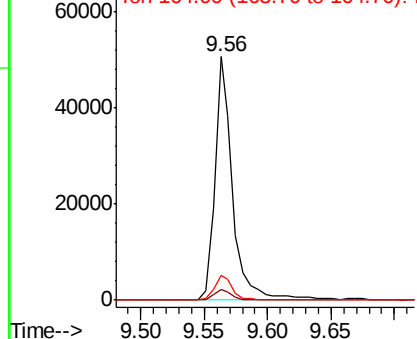


#50
 Dimethylphthalate
 Concen: 5.055 ng
 RT: 9.56 min Scan# 1271
 Delta R.T. -0.01 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

Tgt Ion:163 Resp: 49949
 Ion Ratio Lower Upper
 163 100
 194 4.1 2.9 4.3
 164 10.4 8.2 12.4



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

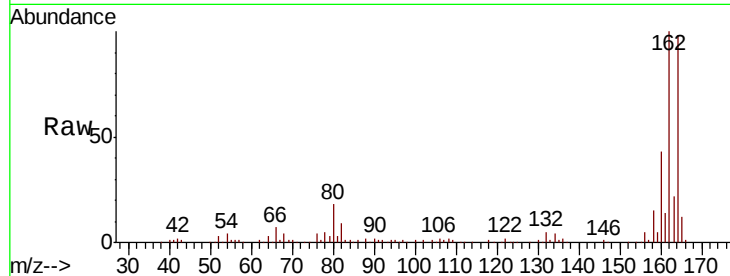




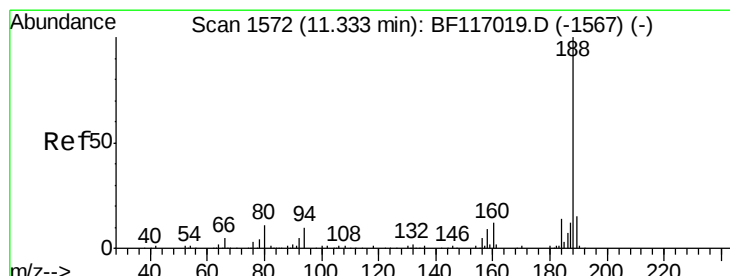
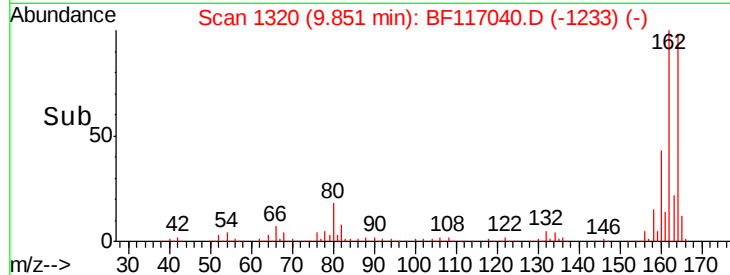
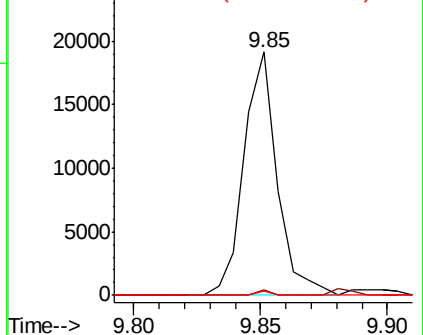
#51
 2,6-Dinitrotoluene
 Concen: 8.719 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.21 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	2.2	41.8	62.8#
89	1.9	46.5	69.7#

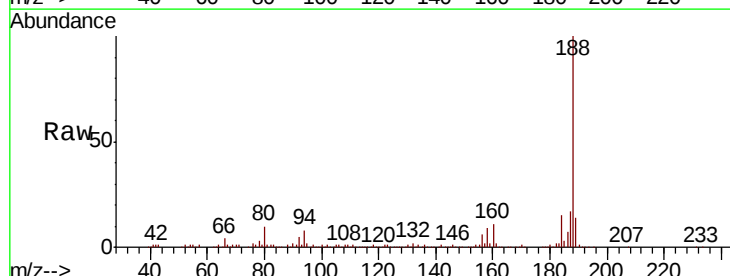


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

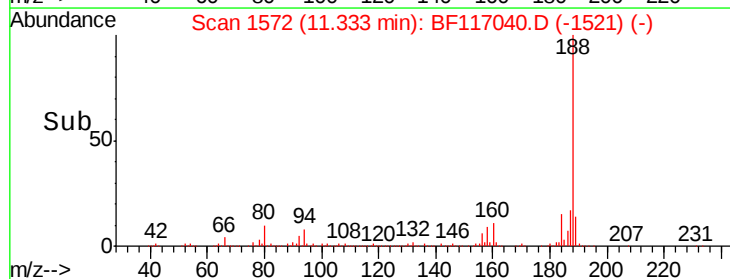
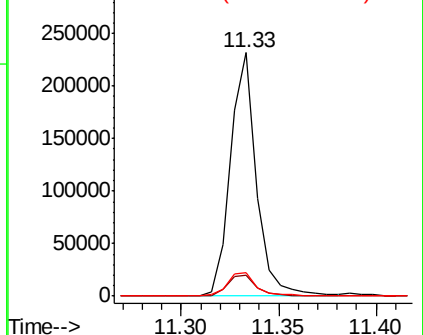


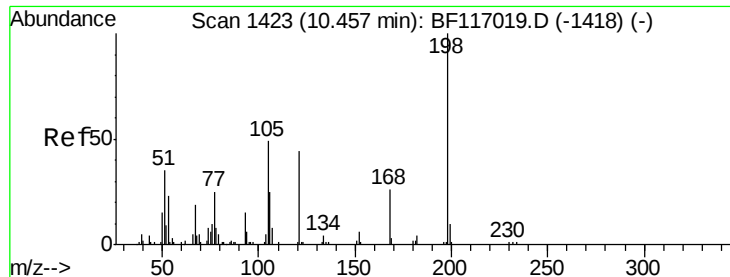
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF117040.D
 Acq: 13 Sep 2019 23:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.4	8.2	12.2
80	9.6	9.0	13.6



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 6.997 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.18 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampled :

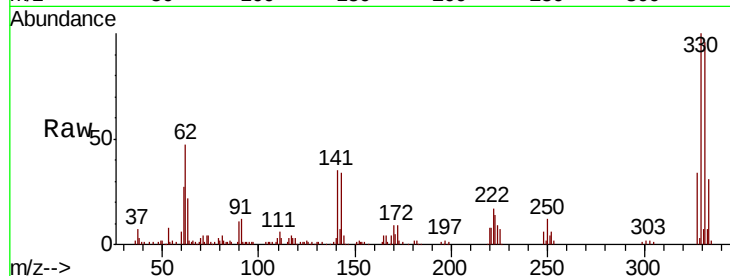
Tot Ion:198 Resp: 109

Ion Ratio Lower Upper

198 100

51 166.0 18.7 58.7#

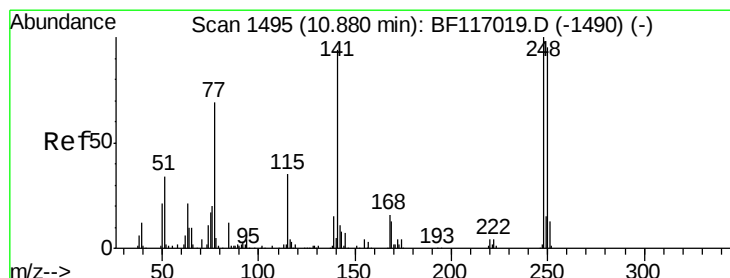
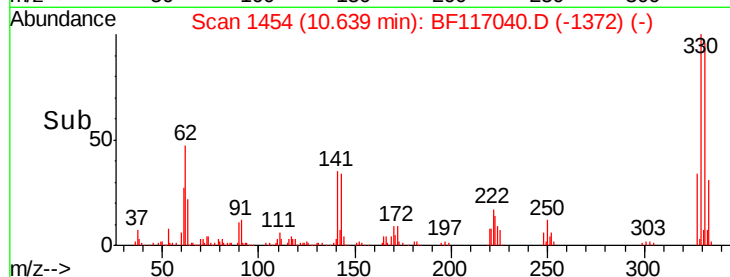
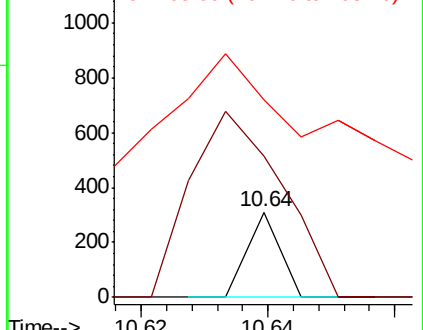
105 232.4 30.2 70.2#



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



#67

4-Bromophenyl-phenylether

Concen: 3.335 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.25 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

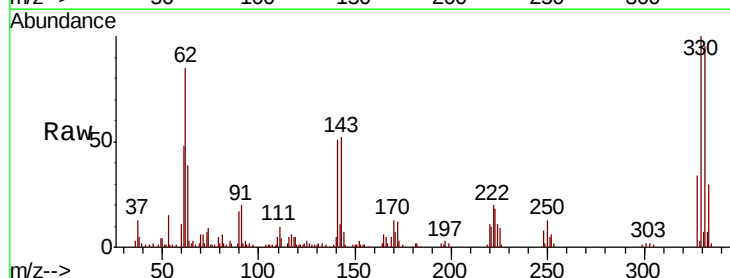
Tgt Ion:248 Resp: 7334

Ion Ratio Lower Upper

248 100

250 168.2 76.2 114.4#

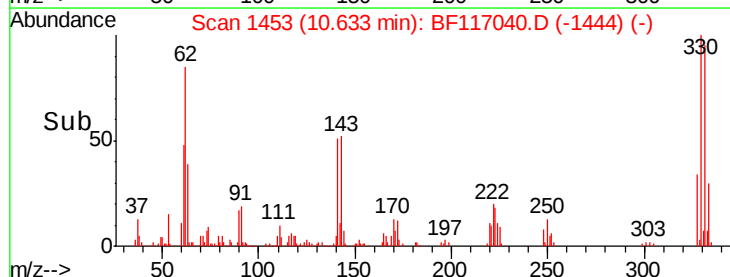
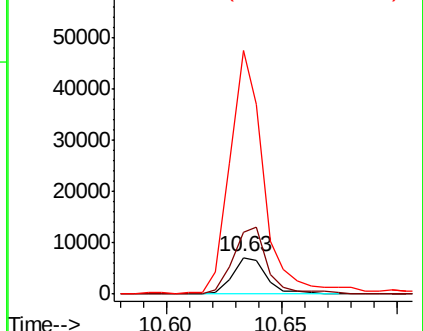
141 665.9 75.0 112.4#

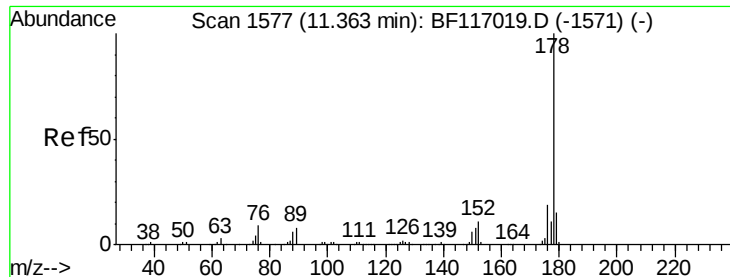


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

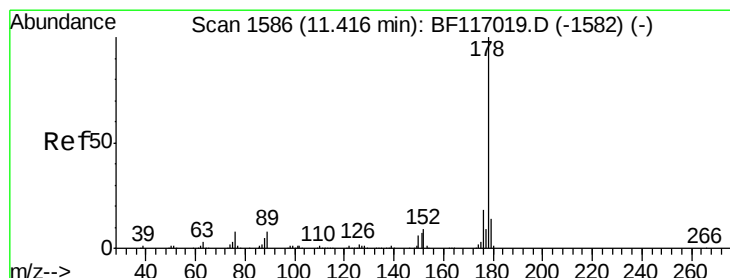
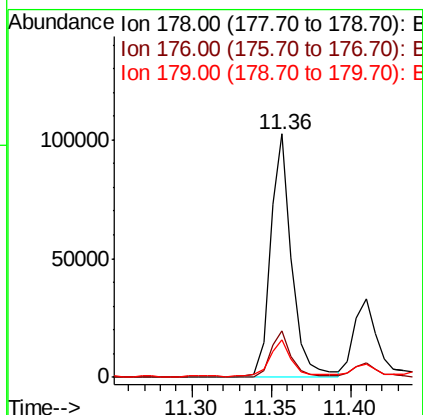
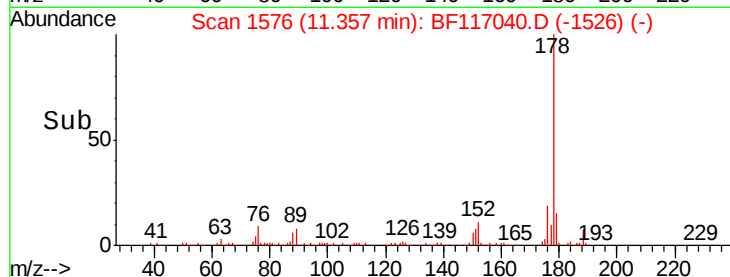
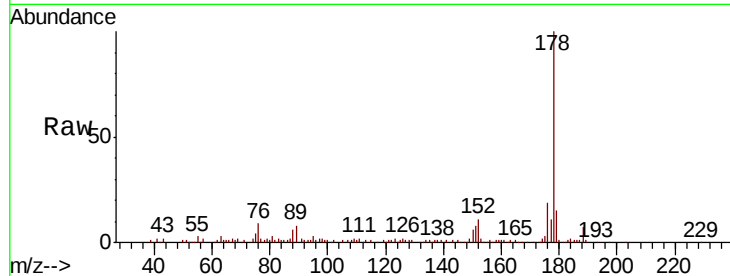




#71
Phenanthrene
Concen: 7.813 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

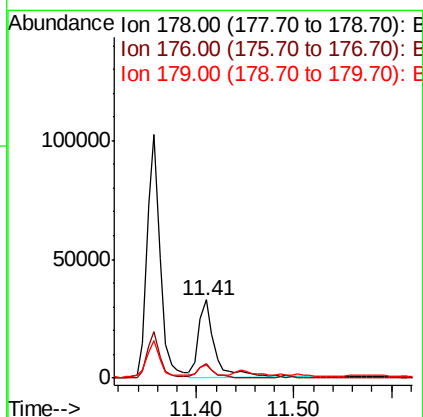
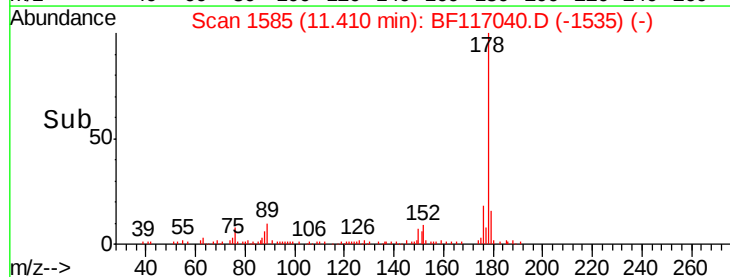
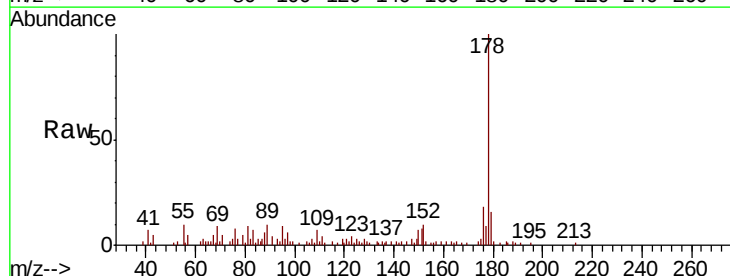
Instrument :
BNA_F
ClientSampleId :

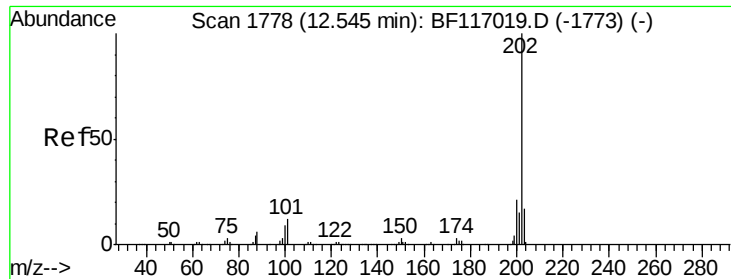
Tot Ion:178 Resp: 95552
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.4 18.6



#72
Anthracene
Concen: 3.121 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion:178 Resp: 38968
Ion Ratio Lower Upper
178 100
176 17.8 14.6 21.8
179 16.5 11.6 17.4





#75

Fluoranthene

Concen: 18.317 ng

RT: 12.55 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampleId :

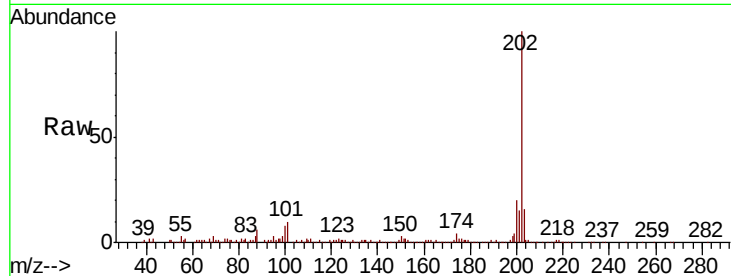
Tot Ion:202 Resp: 230161

Ion Ratio Lower Upper

202 100

101 10.1 0.0 32.3

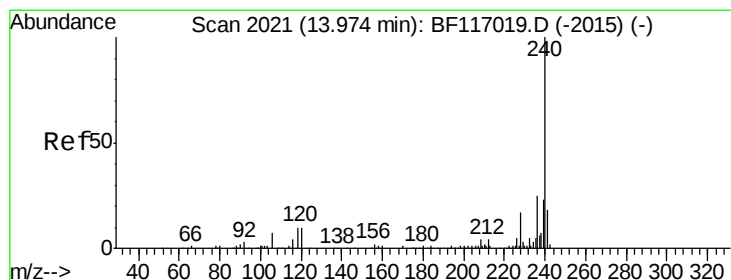
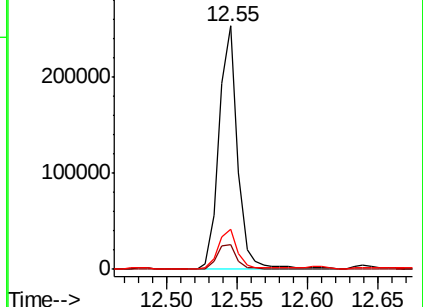
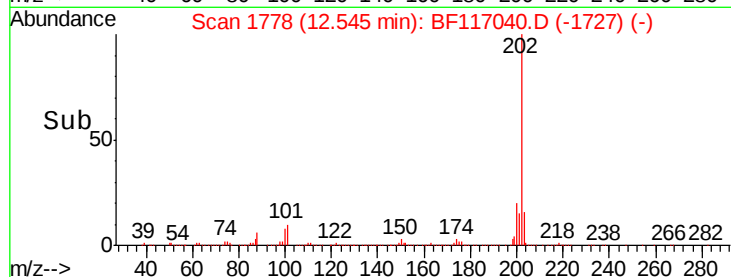
203 16.3 0.0 37.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

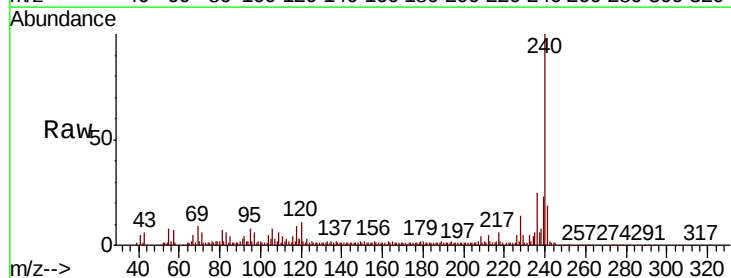
Tgt Ion:240 Resp: 135310

Ion Ratio Lower Upper

240 100

120 10.7 8.3 12.5

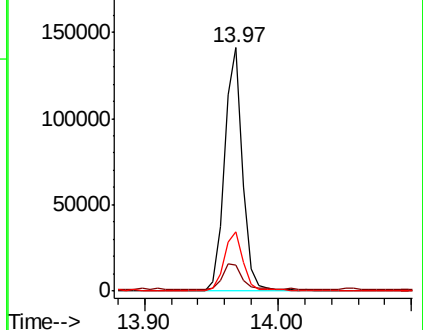
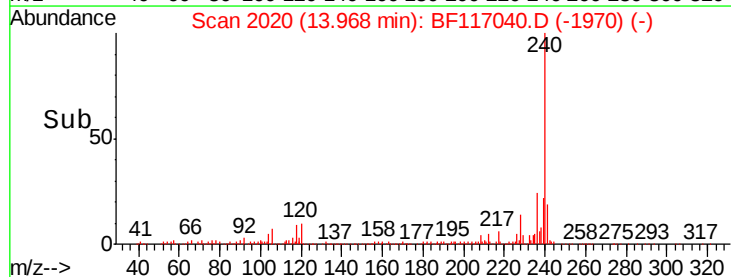
236 24.6 20.3 30.5

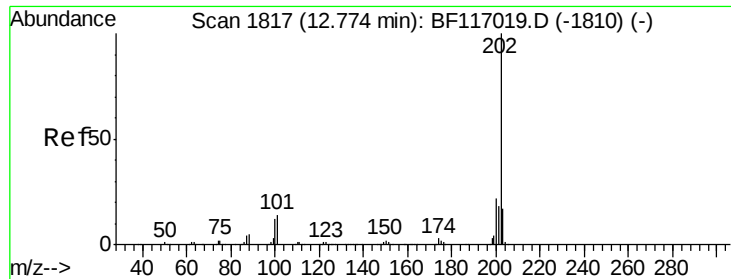


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 18.109 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampleId :

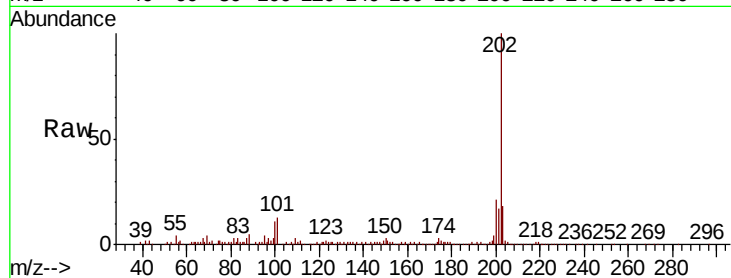
Tot Ion:202 Resp: 205604

Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

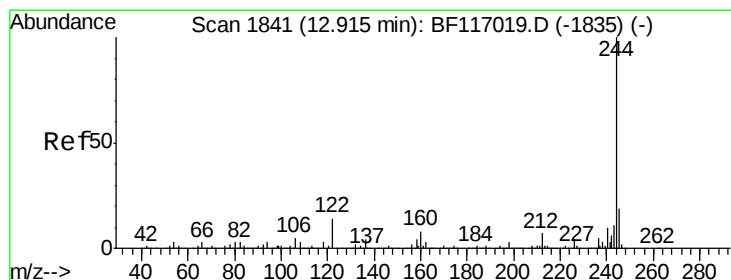
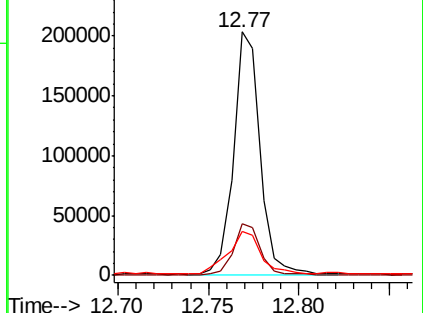
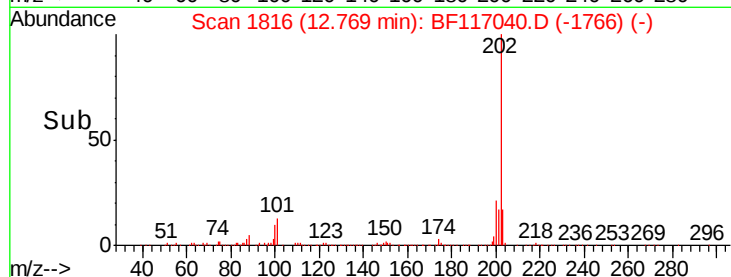
203 18.2 14.0 21.0



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: 60.388 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

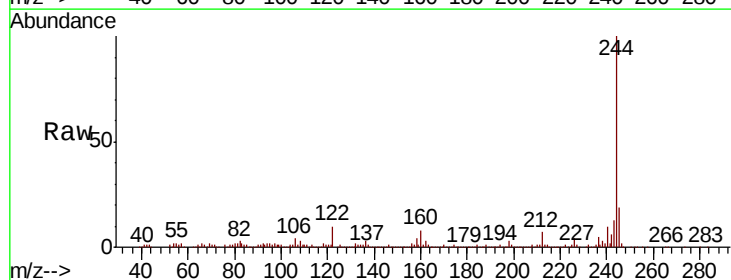
Tgt Ion:244 Resp: 437138

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

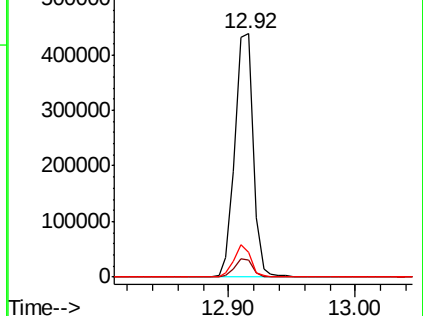
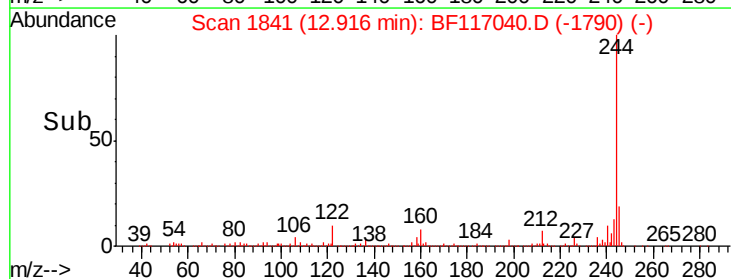
122 10.0 11.3 16.9#

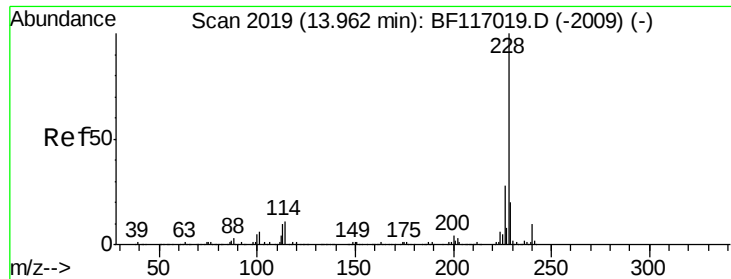


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 12.104 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampleId :

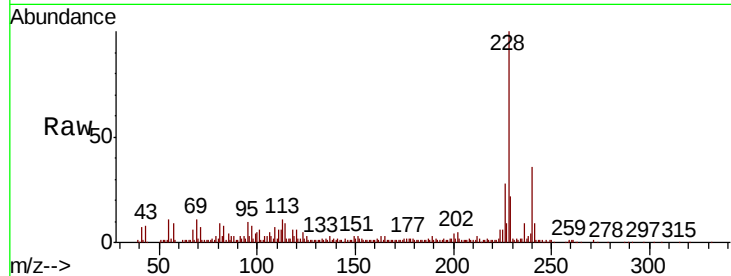
Tot Ion:228 Resp: 109423

Ion Ratio Lower Upper

228 100

226 27.8 22.3 33.5

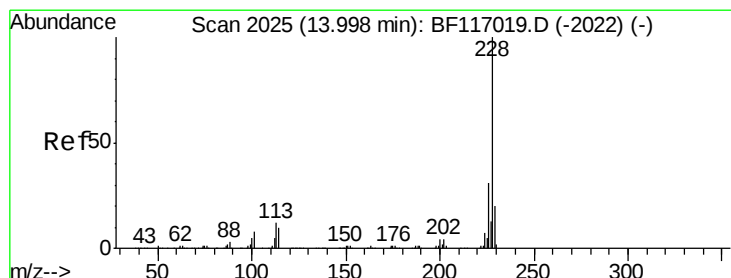
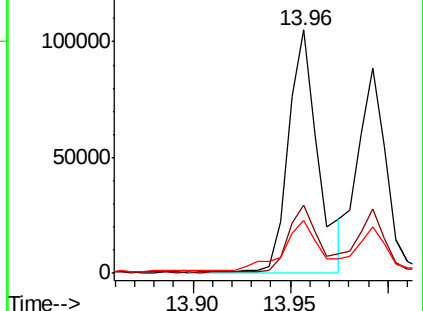
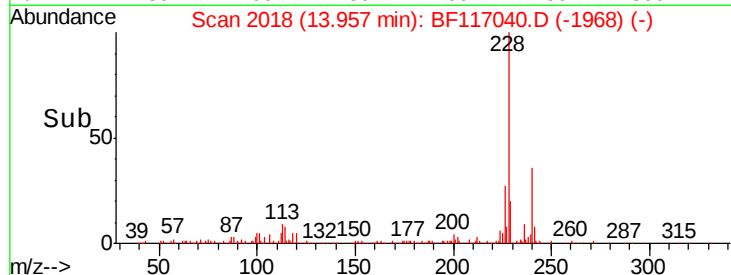
229 21.5 15.9 23.9



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: 10.156 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

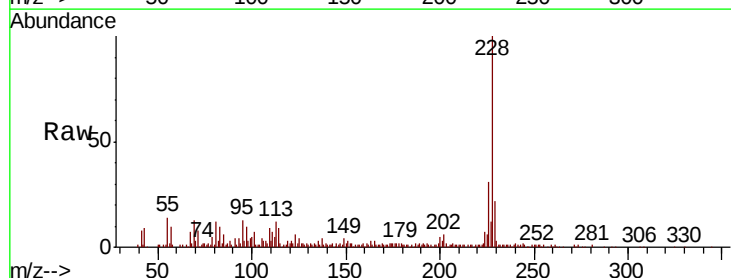
Tgt Ion:228 Resp: 89549

Ion Ratio Lower Upper

228 100

226 31.1 24.8 37.2

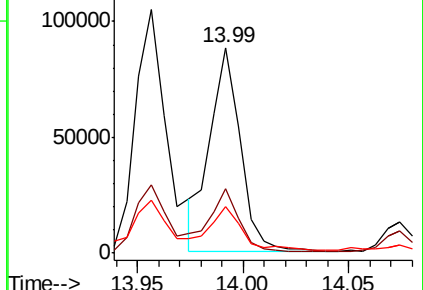
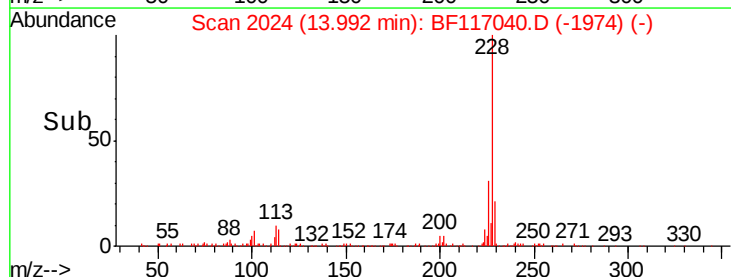
229 22.5 15.8 23.8

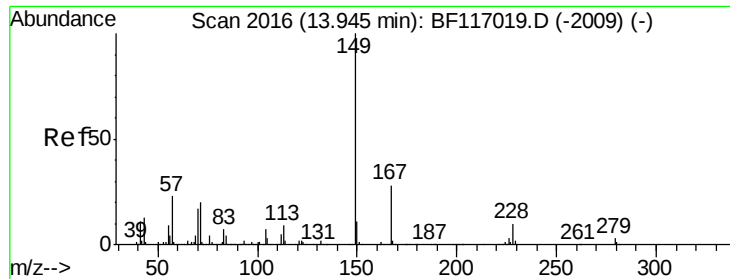


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.547 ng

RT: 13.94 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

Instrument :

BNA_F

ClientSampleId :

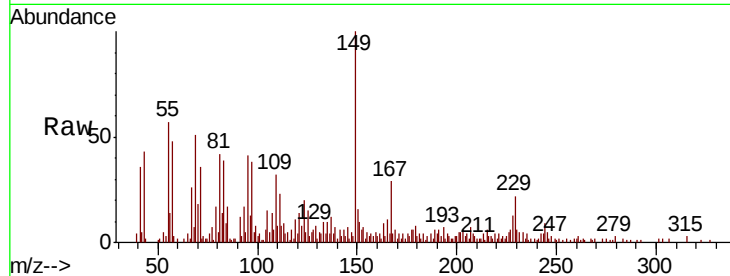
Tot Ion:149 Resp: 31455

Ion Ratio Lower Upper

149 100

167 29.1 22.2 33.2

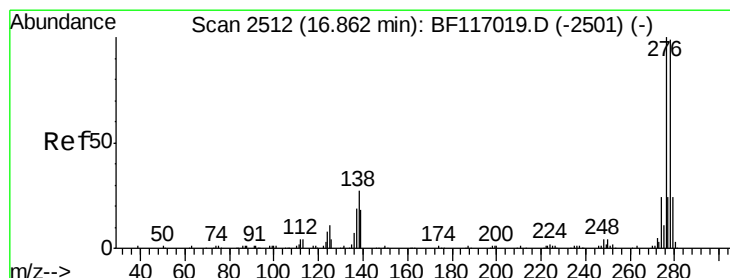
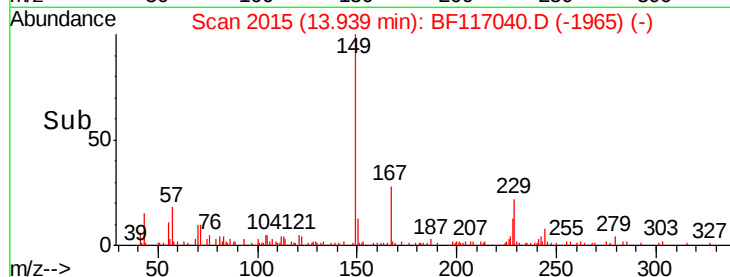
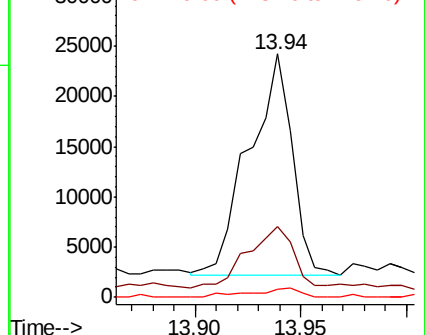
279 3.3 2.8 4.2



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 10.295 ng

RT: 16.84 min Scan# 2509

Delta R.T. -0.02 min

Lab File: BF117040.D

Acq: 13 Sep 2019 23:19

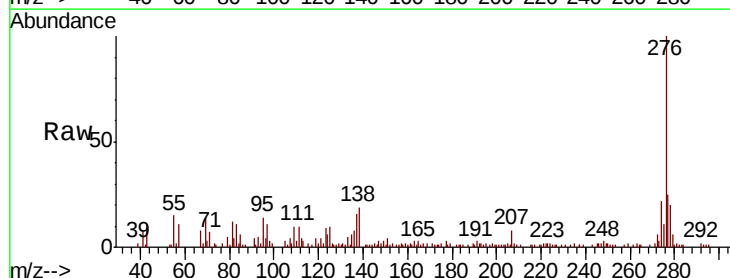
Tgt Ion:276 Resp: 66225

Ion Ratio Lower Upper

276 100

138 19.6 20.7 31.1#

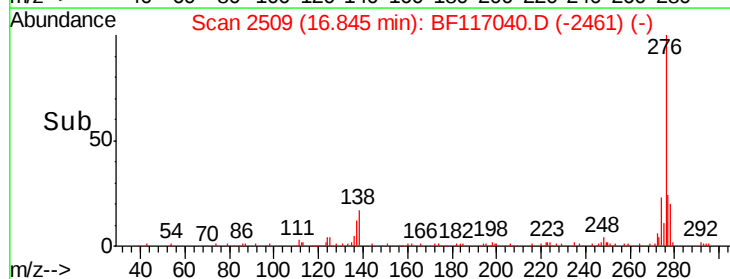
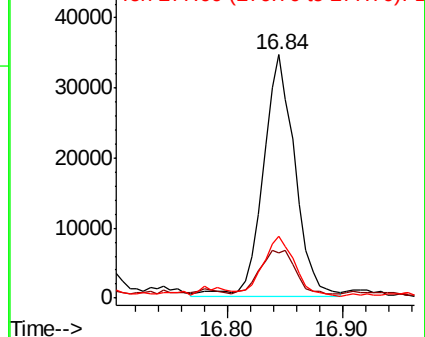
277 24.5 19.8 29.8

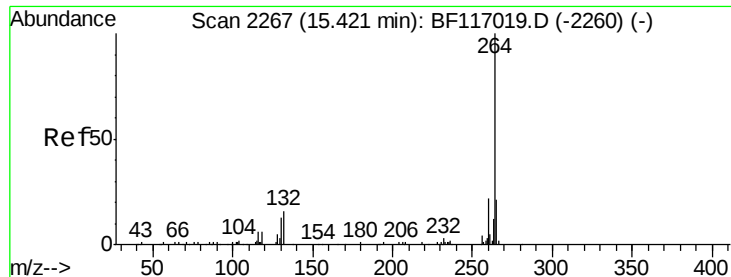


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

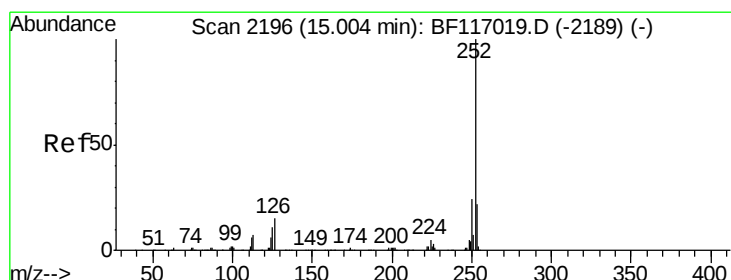
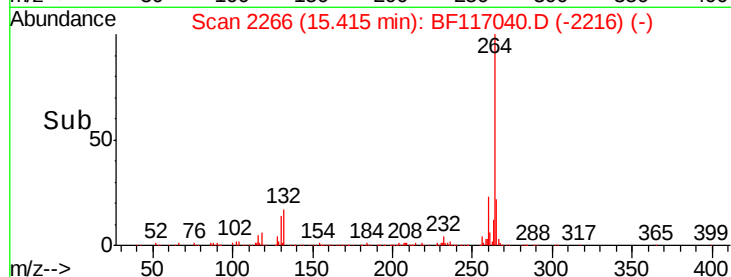
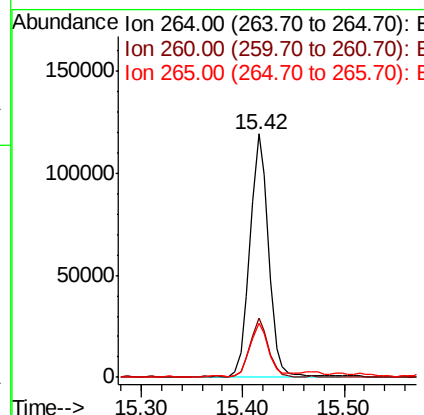
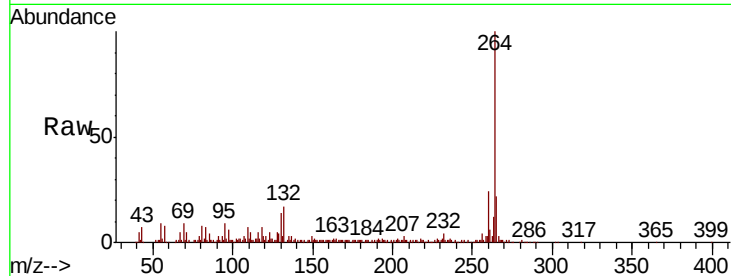




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

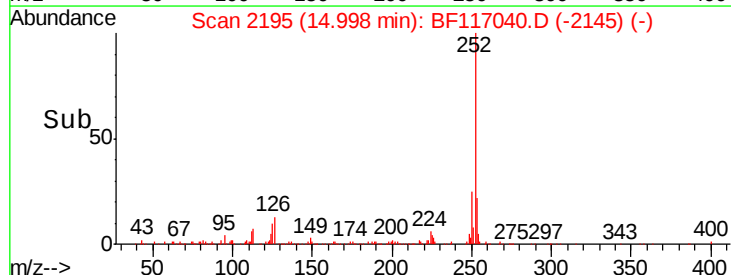
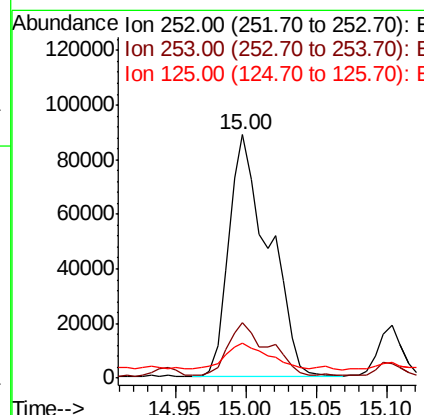
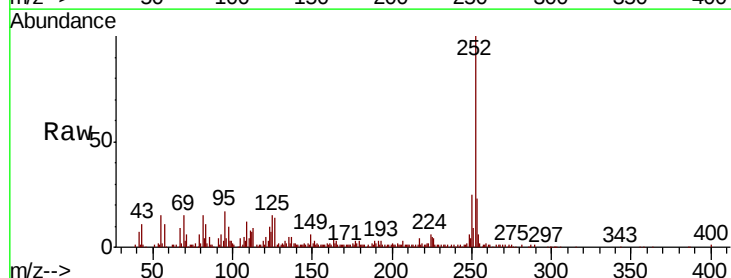
Instrument :
BNA_F
ClientSampleId :

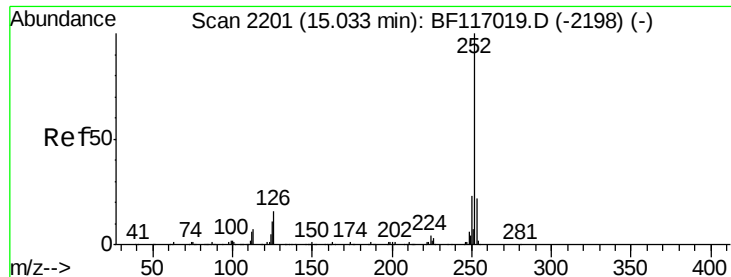
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	17.6	26.4
265	22.1	16.6	24.8



#88
Benzo(b)fluoranthene
Concen: 18.697 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	14.6	8.6	12.8#

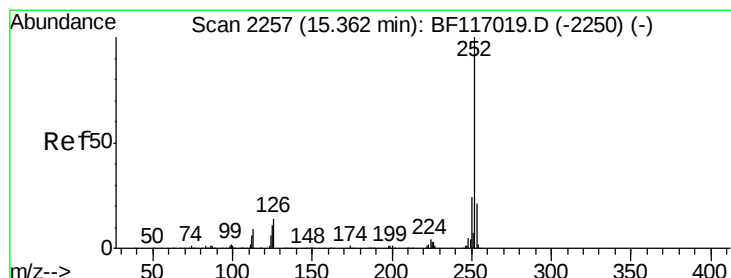
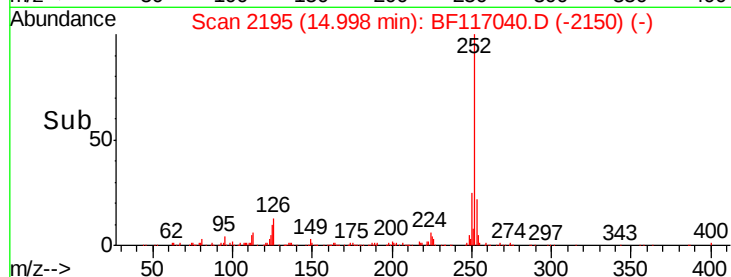
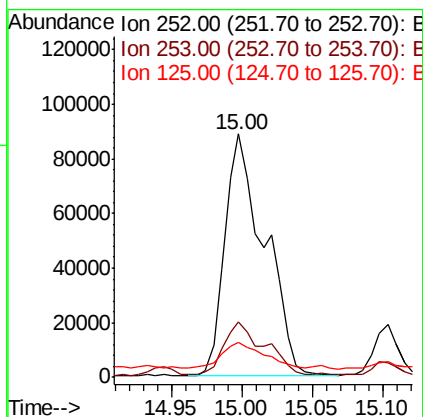
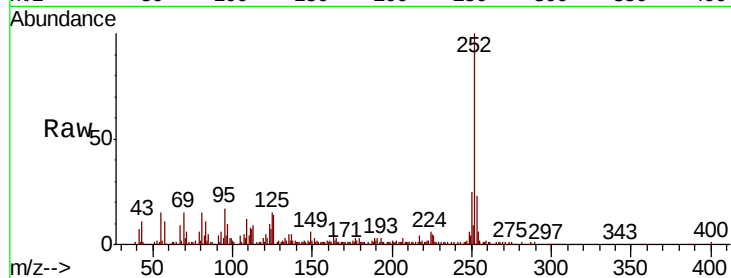




#89
Benzo(k)fluoranthene
Concen: 19.737 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.04 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

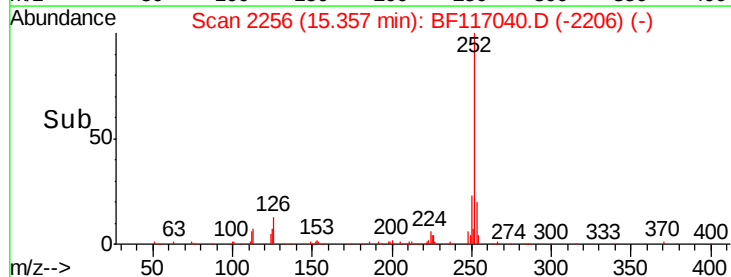
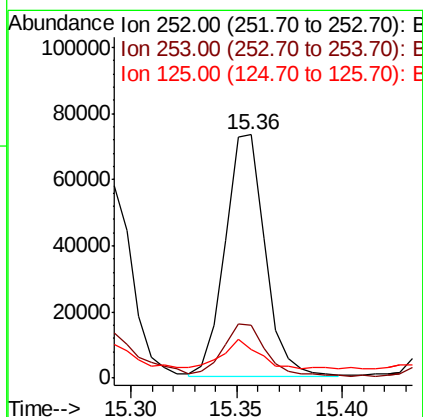
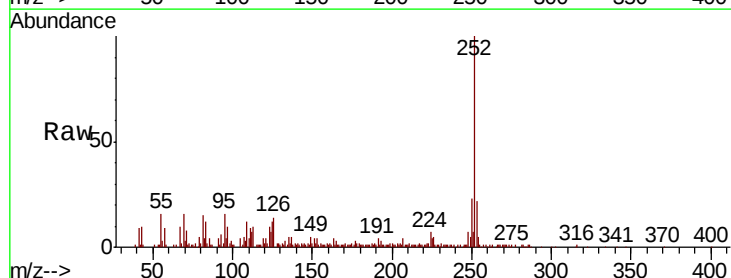
Instrument :
BNA_F
ClientSampleId :

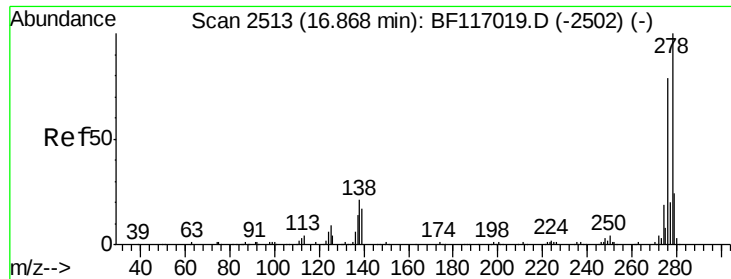
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.2
125	14.6	8.8	13.2



#90
Benzo(a)pyrene
Concen: 11.670 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	16.6	25.0
125	11.7	8.9	13.3

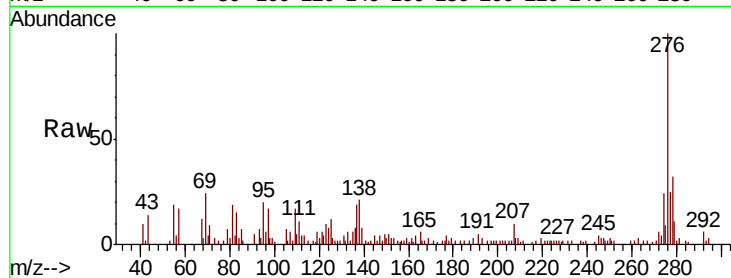




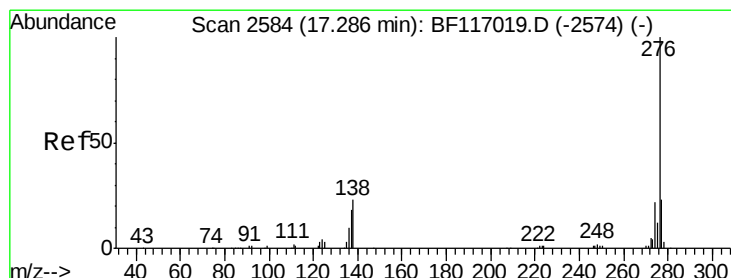
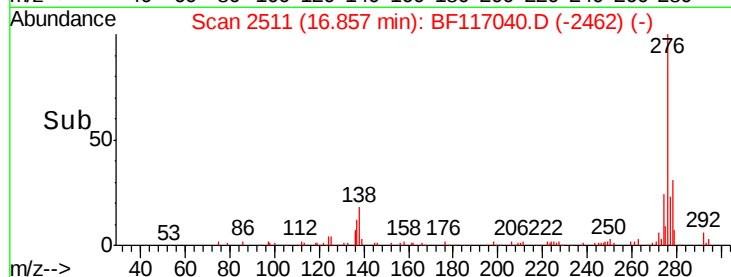
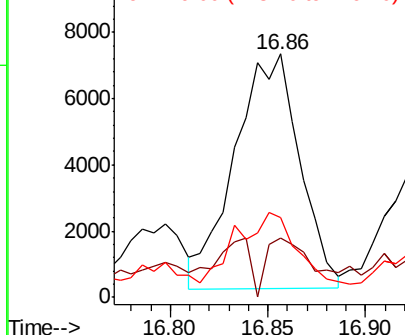
#91
Dibenzo(a,h)anthracene
Concen: 2.496 ng
RT: 16.86 min Scan# 2511
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Instrument :
BNA_F
ClientSampled :

Tot Ion:278 Resp: 16341
Ion Ratio Lower Upper
278 100
139 24.4 13.5 20.3#
279 32.5 18.8 28.2#

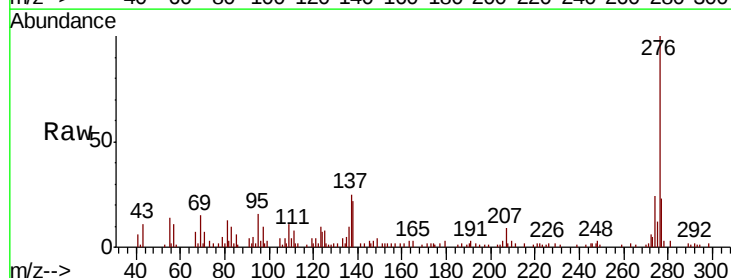


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 9.137 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.01 min
Lab File: BF117040.D
Acq: 13 Sep 2019 23:19

Tgt Ion:276 Resp: 59610
Ion Ratio Lower Upper
276 100
277 23.2 18.6 27.8
138 21.8 18.0 27.0



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

