

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF100319\
 Data File : BF117336.D
 Acq On : 4 Oct 2019 00:11
 Operator : JU
 Sample : K5165-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NBP-2019

Quant Time: Oct 04 03:22:11 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

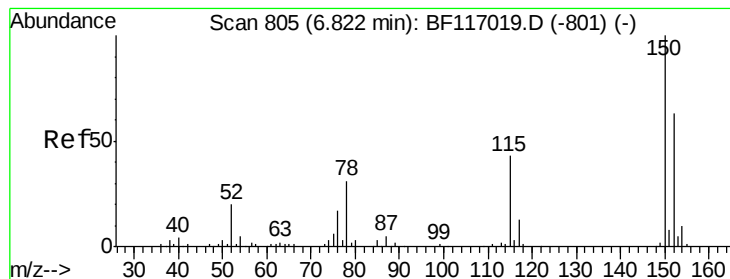
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	46762	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	156403	20.00	ng	-0.01
39) Acenaphthene-d10	9.84	164	57718	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	92780	20.00	ng	0.00
76) Chrysene-d12	13.97	240	85038	20.00	ng	0.00
87) Perylene-d12	15.43	264	64209	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	265891	88.77	ng	0.00
7) Phenol-d6	6.46	99	374664	96.79	ng	0.00
23) Nitrobenzene-d5	7.37	82	220311	74.01	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	45871	95.09	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	327922	88.83	ng	-0.01
79) Terphenyl-d14	12.91	244	303761	66.77	ng	0.00

Target Compounds				Qvalue		
9) Benzaldehyde	6.46	77	269	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.37	70	29115	12.352	ng	# 81
25) Isophorone	7.37	82	220310	41.801	ng	# 66
50) Dimethylphthalate	9.56	163	28720	7.028	ng	99
51) 2,6-Dinitrotoluene	9.84	165	7501	9.012	ng	# 24
57) 2,4-Dinitrotoluene	9.84	165	7501	6.943	ng	# 18
67) 4-Bromophenyl-phenylether	10.63	248	3059	3.228	ng	# 1
71) Phenanthrene	11.35	178	65108	12.355	ng	98
72) Anthracene	11.35	178	65108	12.102	ng	99
75) Fluoranthene	12.54	202	142606	26.336	ng	99
78) Pyrene	12.77	202	129203	18.108	ng	95
81) Benzo(a)anthracene	13.96	228	67605	11.899	ng	98
83) Chrysene	14.00	228	61313	11.065	ng	95
84) Bis(2-ethylhexyl)phthalate	13.94	149	11158	2.567	ng	# 96
86) Indeno(1,2,3-cd)pyrene	16.89	276	24062	5.952	ng	# 90
88) Benzo(b)fluoranthene	15.01	252	80549	20.710	ng	# 90
89) Benzo(k)fluoranthene	15.01	252	80549	21.863	ng	# 90
90) Benzo(a)pyrene	15.37	252	38376	11.244	ng	# 96
91) Dibenzo(a,h)anthracene	16.89	278	5937	2.184	ng	# 64
92) Benzo(g,h,i)perylene	17.33	276	24237	8.946	ng	94

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

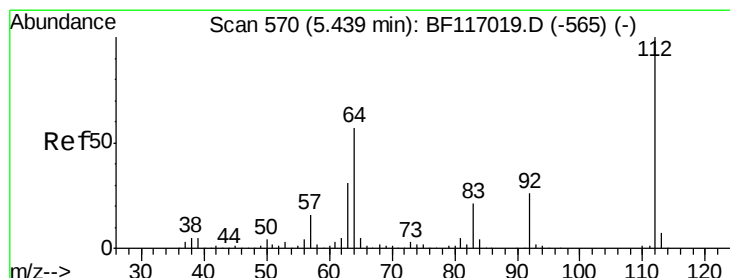
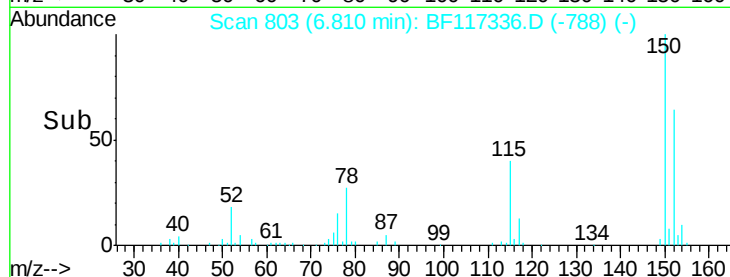
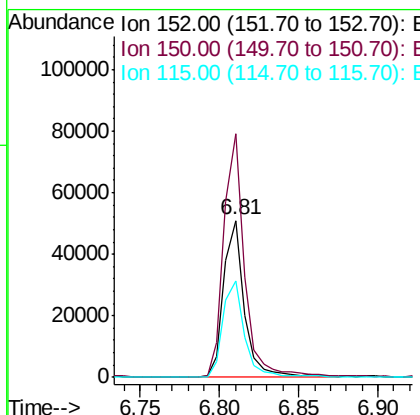
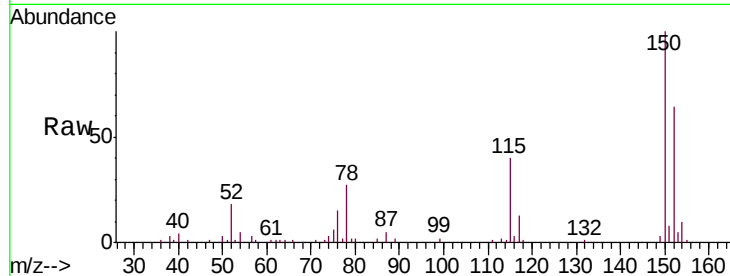
Data Path : Z:\SV0ASRV\HPCHEM1\BNA_F\DATA\BF100319\
Data File : BF117336.D
Acq On : 4 Oct 2019 00:11
Operator : JU
Sample : K5165-01
Misc :
ALS Vial : 22 Sample Multiplier: 1



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

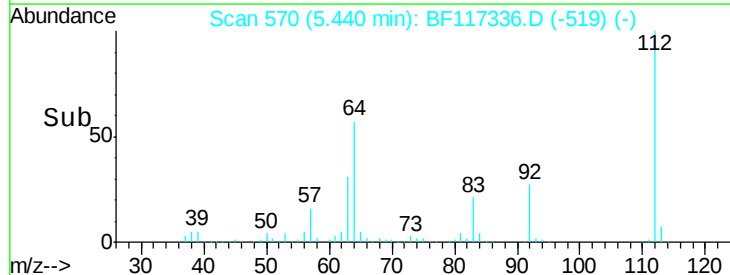
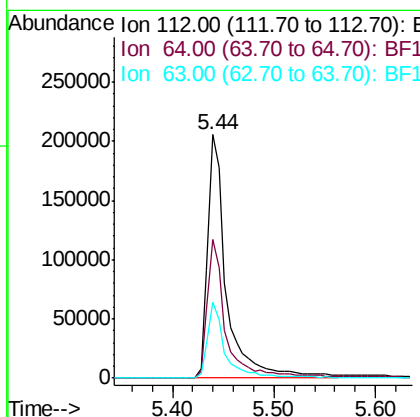
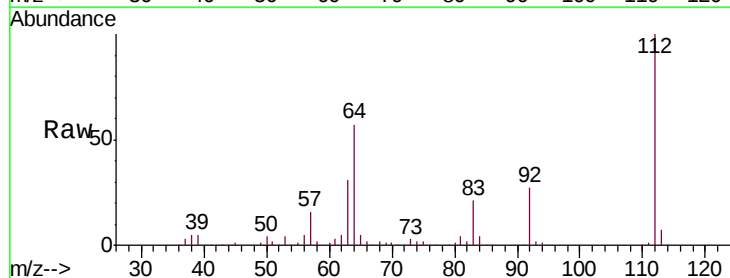
Instrument :
 BNA_F
 ClientSampleId :
 NBP-2019

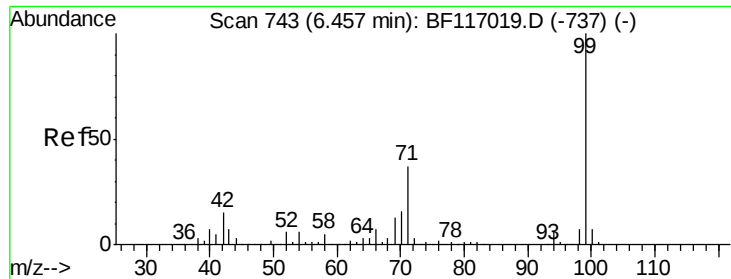
Tgt Ion:152 Resp: 46762
 Ion Ratio Lower Upper
 152 100
 150 155.2 127.5 191.3
 115 61.4 55.0 82.4



#5
 2-Fluorophenol
 Concen: 88.773 ng
 RT: 5.44 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

Tgt Ion:112 Resp: 265891
 Ion Ratio Lower Upper
 112 100
 64 57.1 45.7 68.5
 63 31.4 24.9 37.3





#7

Phenol-d6

Concen: 96.791 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

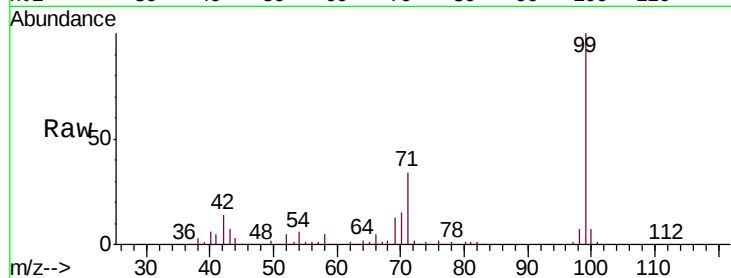
Tgt Ion: 99 Resp: 374664

Ion Ratio Lower Upper

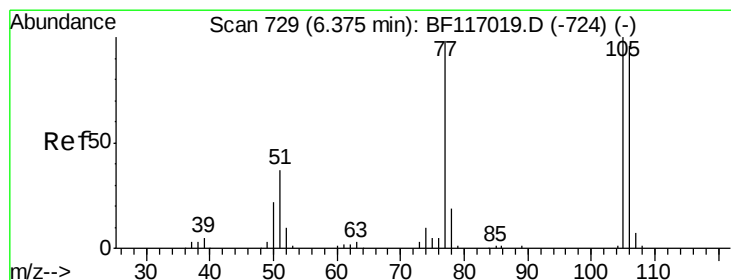
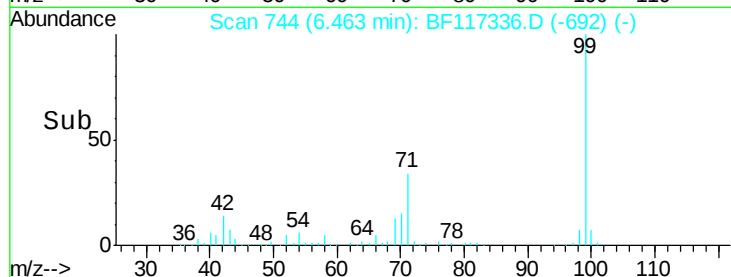
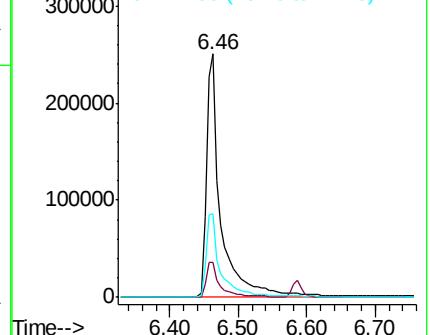
99 100

42 14.4 12.2 18.2

71 34.3 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: 6.46 min Scan# 744

Delta R.T. 0.09 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

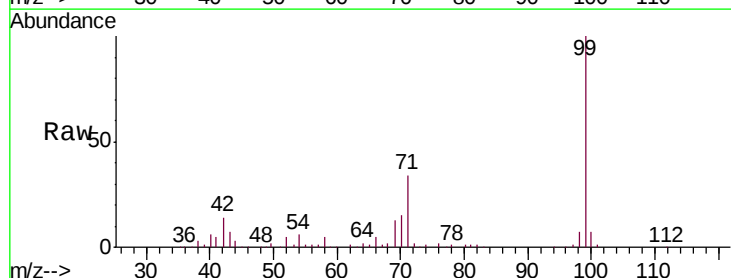
Tgt Ion: 77 Resp: 269

Ion Ratio Lower Upper

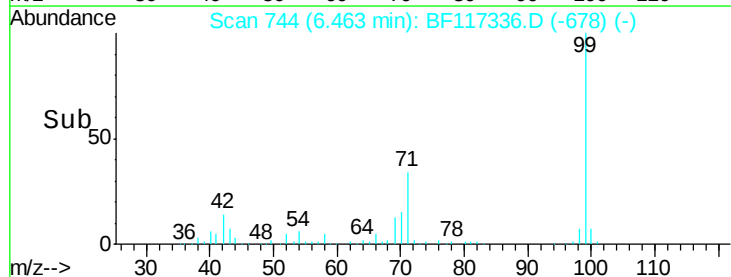
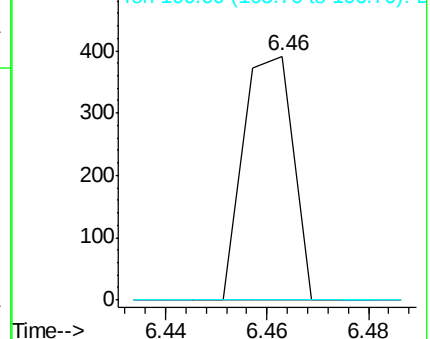
77 100

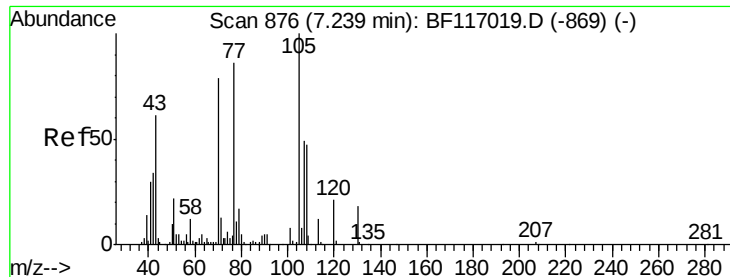
105 0.0 81.8 121.8#

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

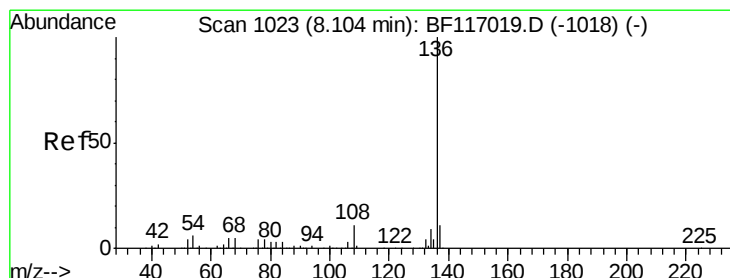
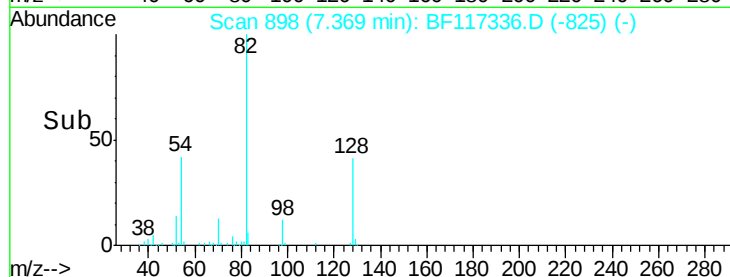
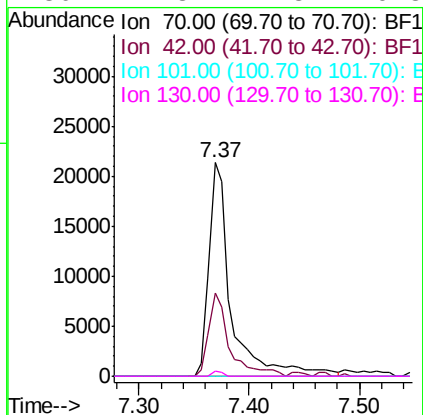
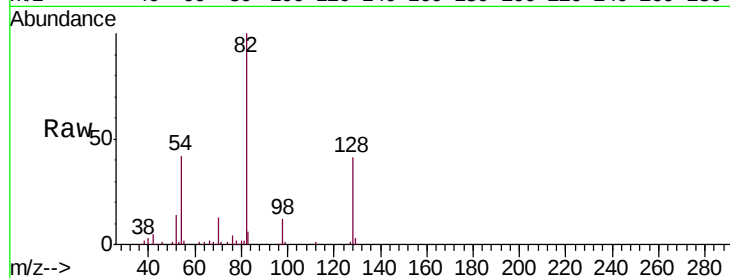




#19
n-Nitroso-di-n-propylamine
Concen: 12.352 ng
RT: 7.37 min Scan# 898
Delta R.T. 0.13 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

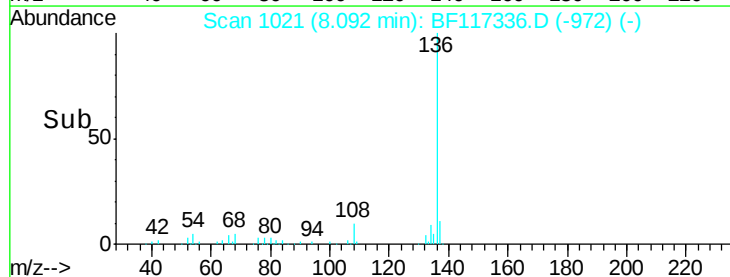
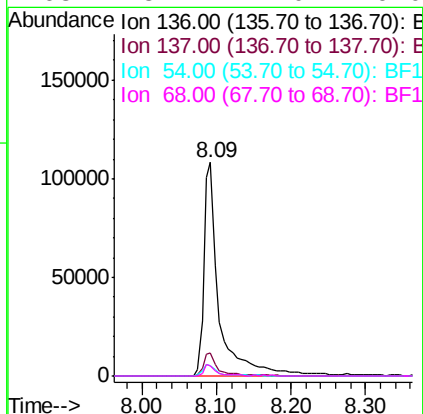
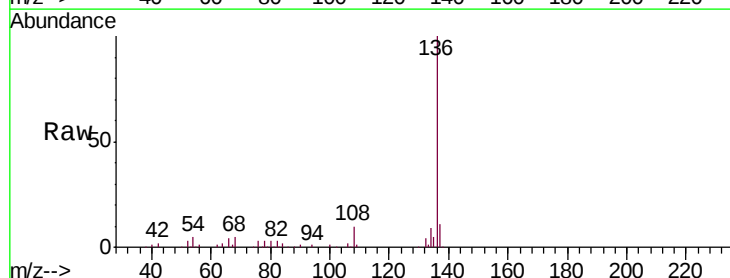
Instrument :
BNA_F
ClientSampleId :
NBP-2019

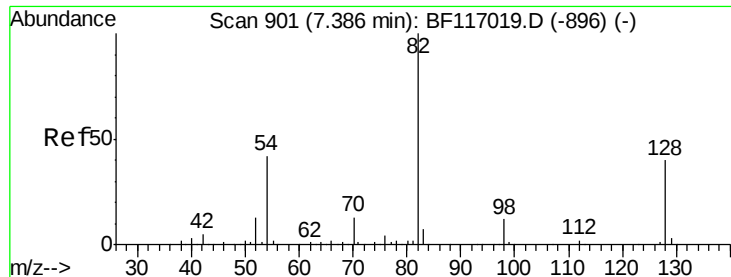
Tgt Ion: 70 Resp: 29115
Ion Ratio Lower Upper
70 100
42 39.0 34.0 51.0
101 0.0 7.8 11.6#
130 2.3 17.8 26.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

Tgt Ion: 136 Resp: 156403
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.4
54 5.0 4.5 6.7
68 5.1 4.0 6.0

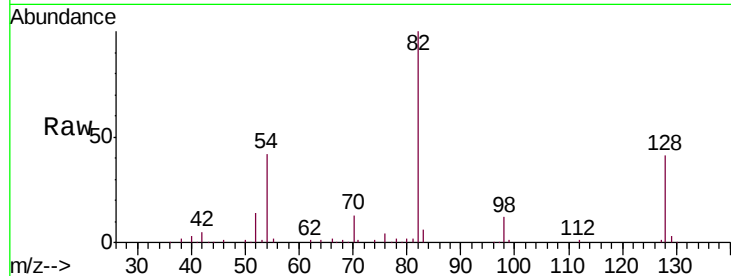




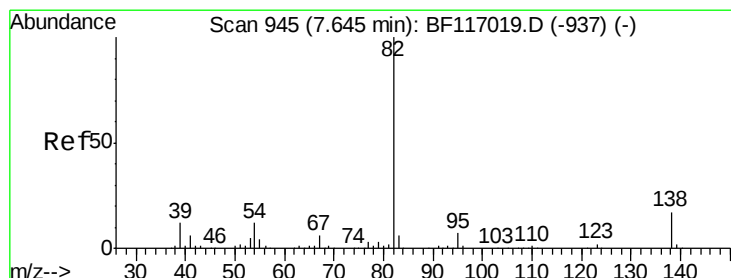
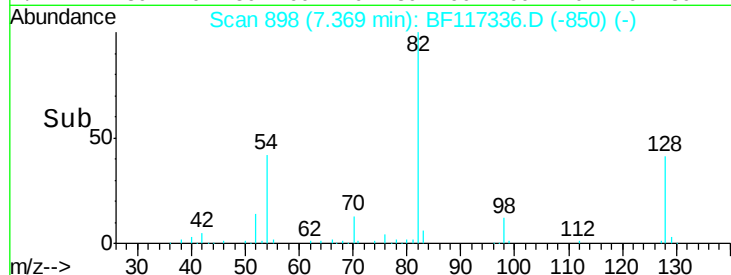
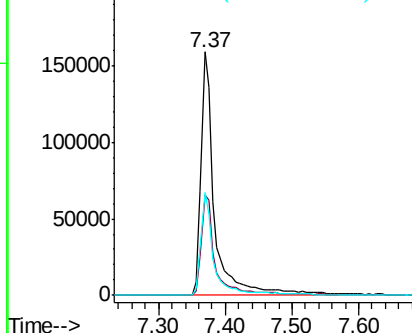
#23
 Nitrobenzene-d5
 Concen: 74.012 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.02 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

Instrument :
 BNA_F
 ClientSampleId :
 NBP-2019

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.0	32.3	48.5
54	42.3	33.3	49.9

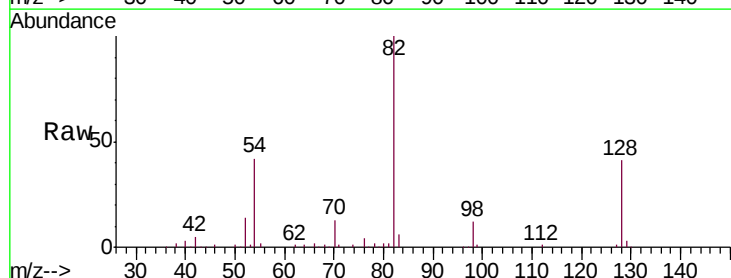


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

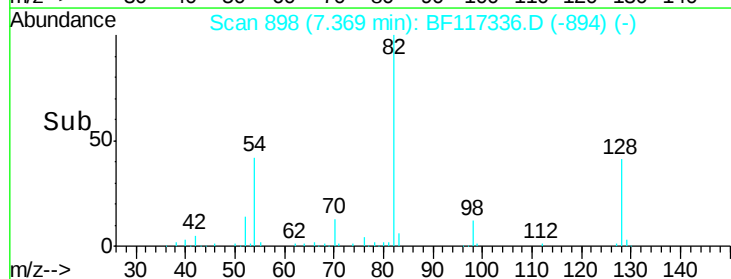
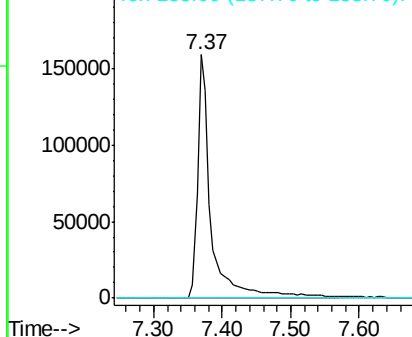


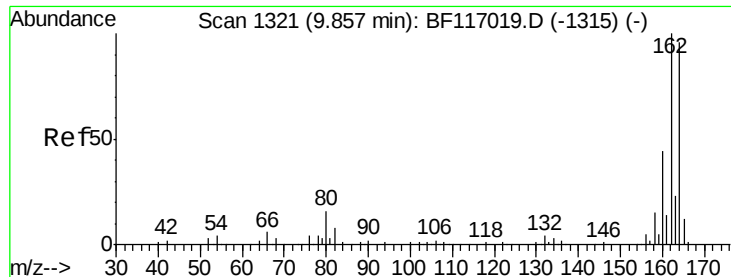
#25
 Isophorone
 Concen: 41.801 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.28 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

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



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.02 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

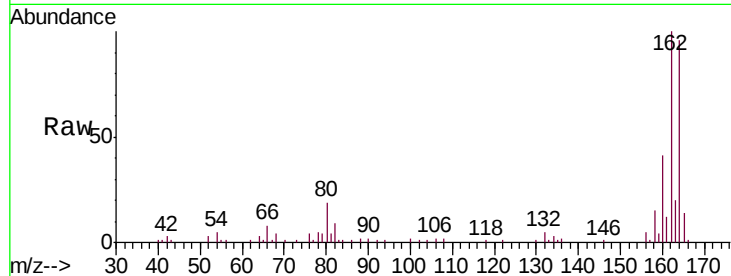
Tgt Ion:164 Resp: 57718

Ion Ratio Lower Upper

164 100

162 104.0 83.4 125.2

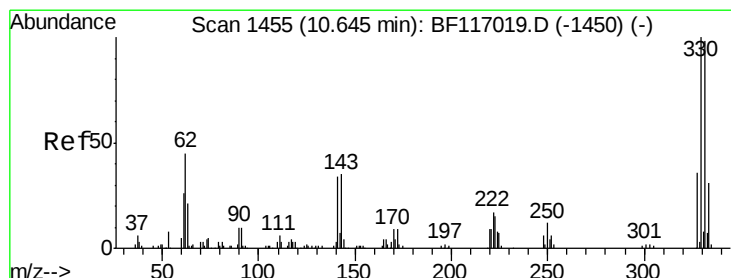
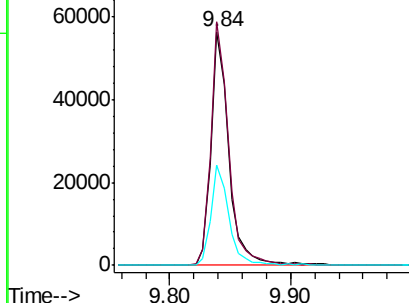
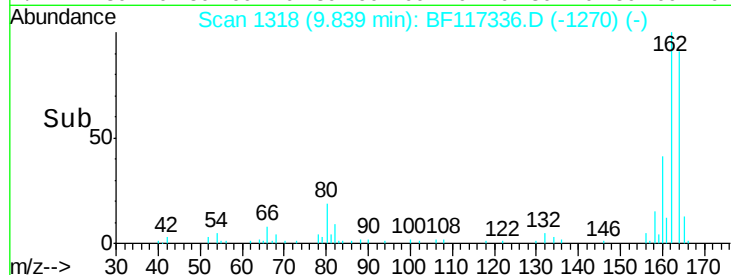
160 42.7 36.4 54.6



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: 95.091 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

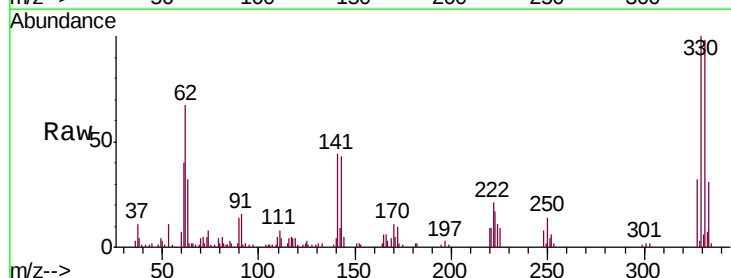
Tgt Ion:330 Resp: 45871

Ion Ratio Lower Upper

330 100

332 98.8 78.0 117.0

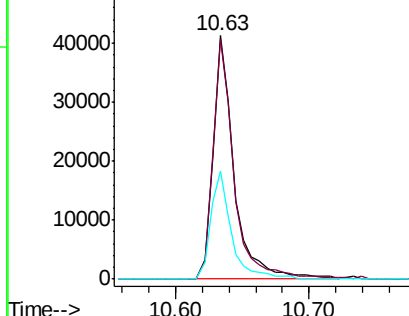
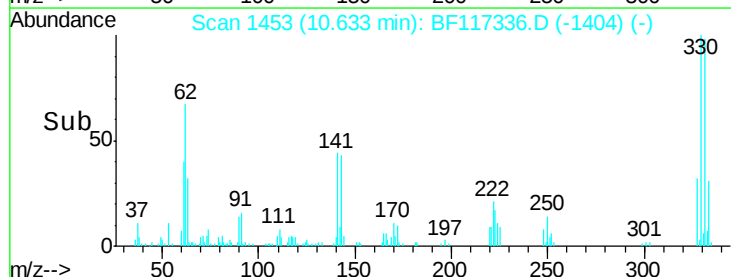
141 43.4 35.8 53.6

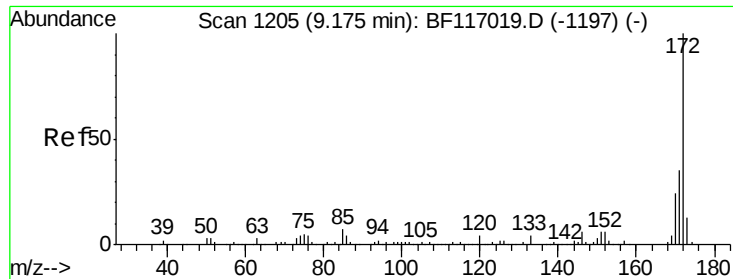


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

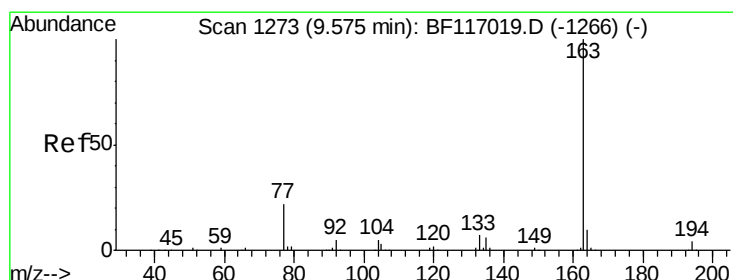
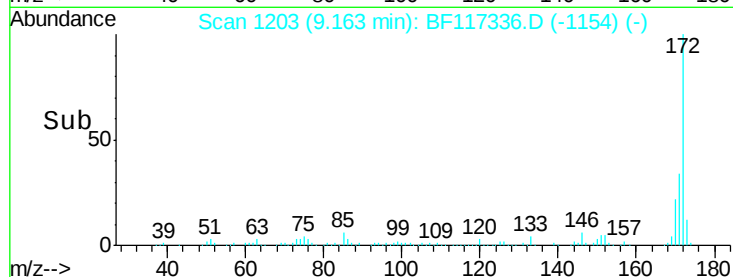
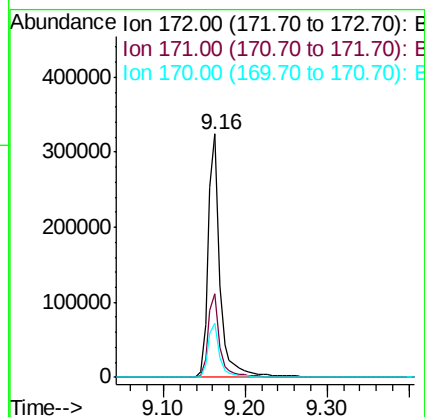
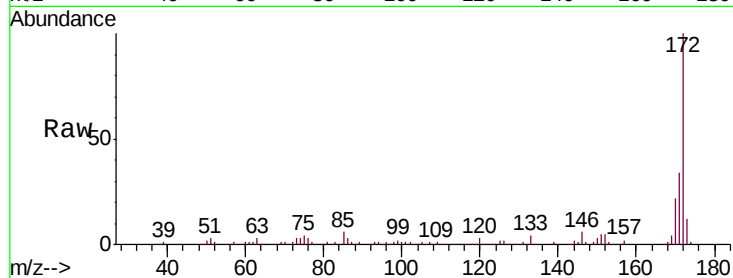




#45
2-Fluorobiphenyl
Concen: 88.834 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

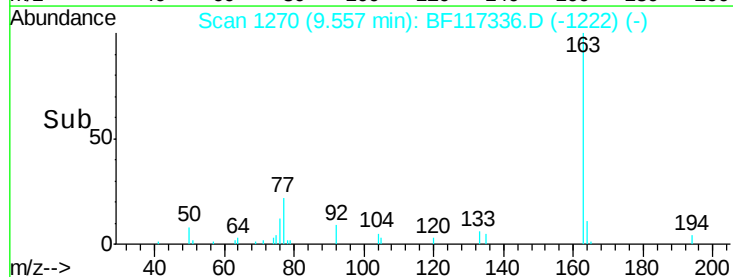
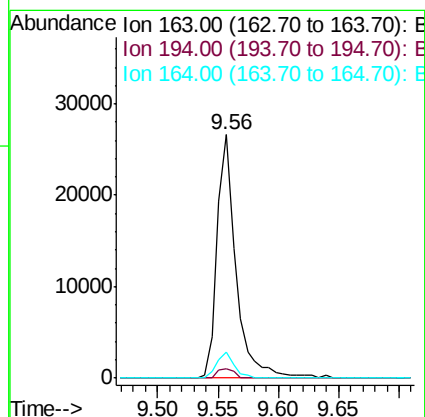
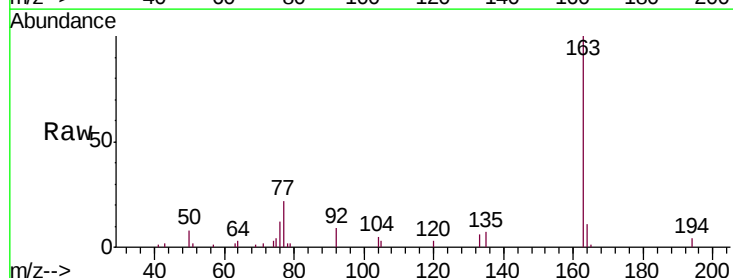
Instrument :
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NBP-2019

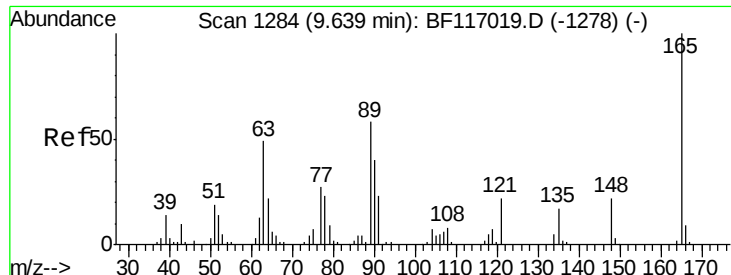
Tgt Ion:172 Resp: 327922
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.2
170 22.1 18.9 28.3



#50
Dimethylphthalate
Concen: 7.028 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

Tgt Ion:163 Resp: 28720
Ion Ratio Lower Upper
163 100
194 3.9 2.9 4.3
164 10.9 8.2 12.4

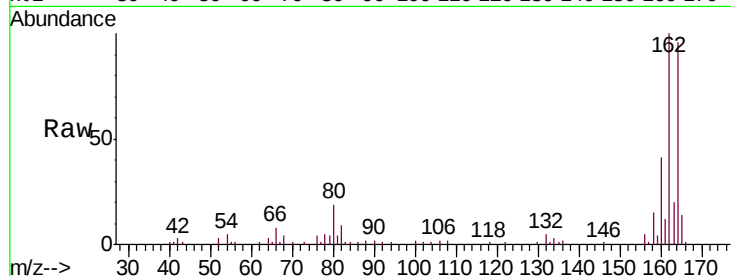




#51
 2,6-Dinitrotoluene
 Concen: 9.012 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.20 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

Instrument :
 BNA_F
 ClientSampleId :
 NBP-2019

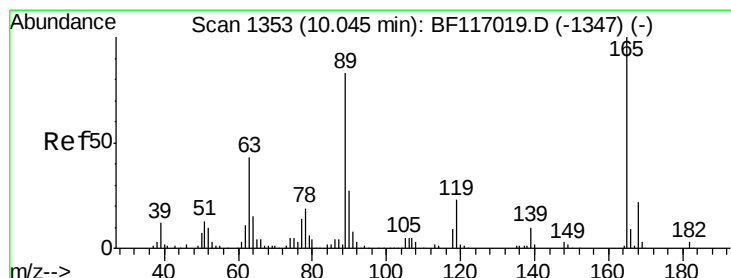
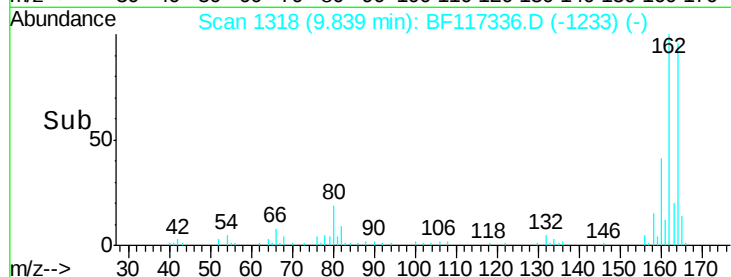
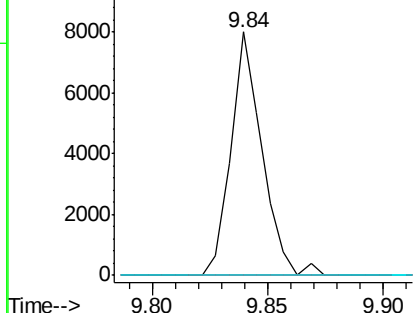
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	41.8	62.8#
89	0.0	46.5	69.7#



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



#57
 2,4-Dinitrotoluene
 Concen: 6.943 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.21 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

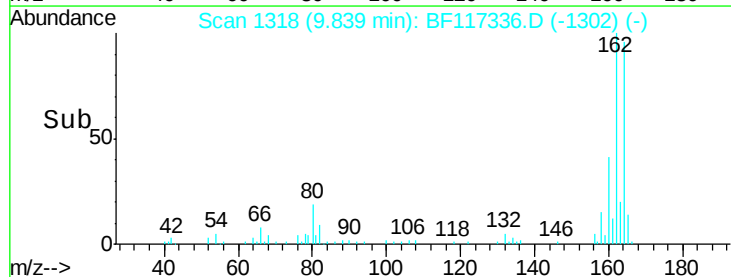
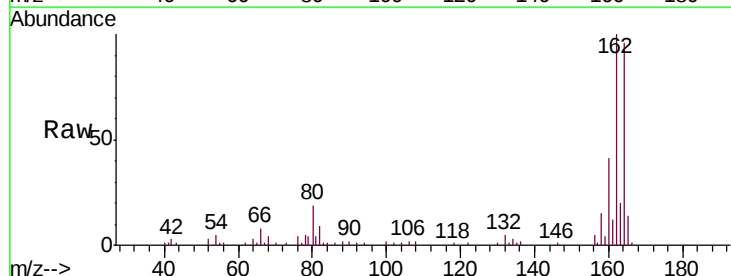
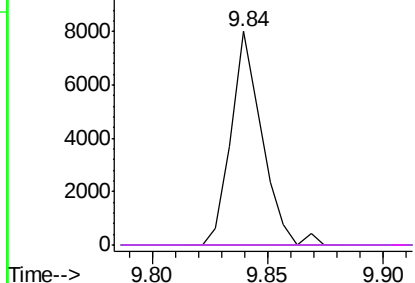
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	35.0	52.4#
89	0.0	66.1	99.1#
182	0.0	2.0	3.0#

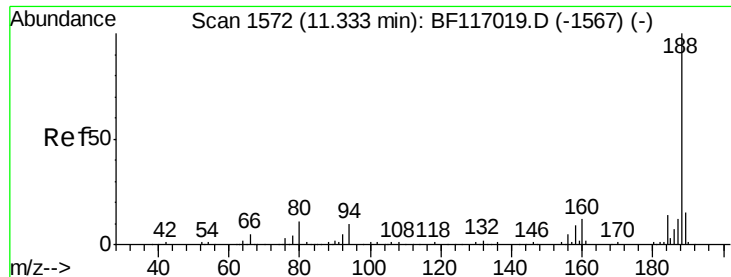
Abundance Ion 165.00 (164.70 to 165.70): E

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

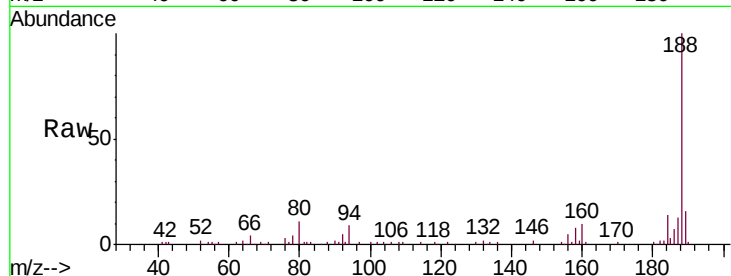
Tgt Ion:188 Resp: 92780

Ion Ratio Lower Upper

188 100

94 9.2 8.2 12.2

80 10.6 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

120000

100000

80000

60000

40000

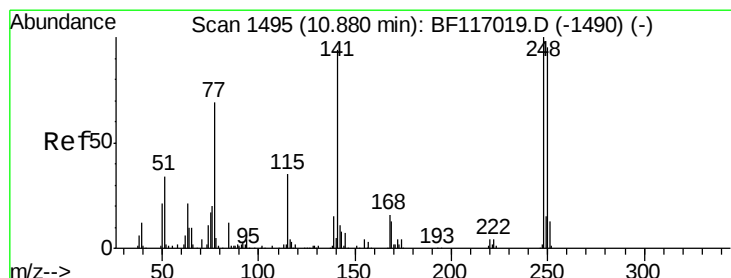
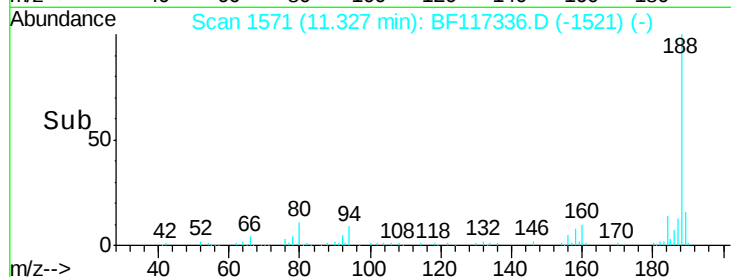
20000

0

11.33

11.40

Time-->



#67

4-Bromophenyl-phenylether

Concen: 3.228 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.25 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

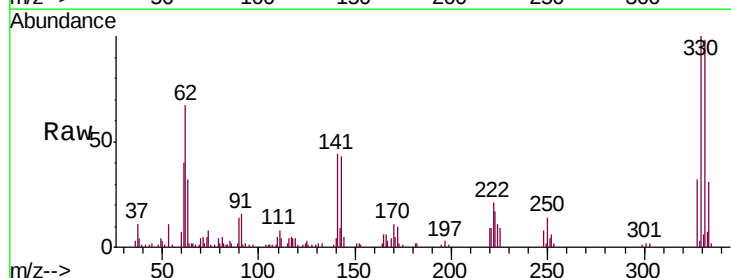
Tgt Ion:248 Resp: 3059

Ion Ratio Lower Upper

248 100

250 183.5 76.2 114.4#

141 569.8 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

25000

20000

15000

10000

5000

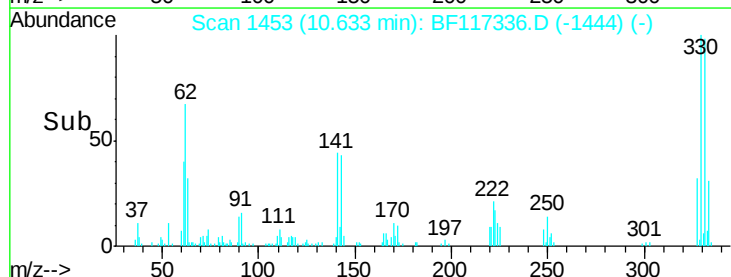
0

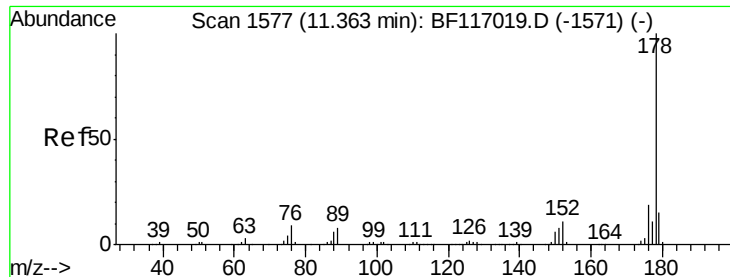
10.63

10.60

10.65

Time-->

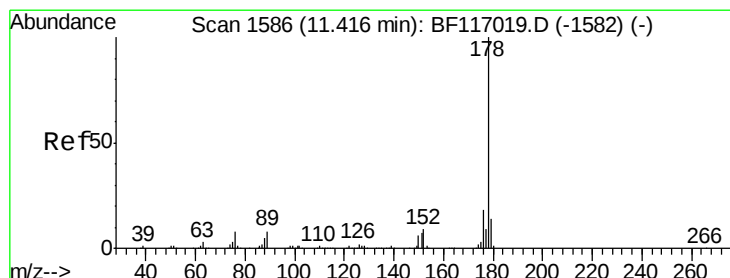
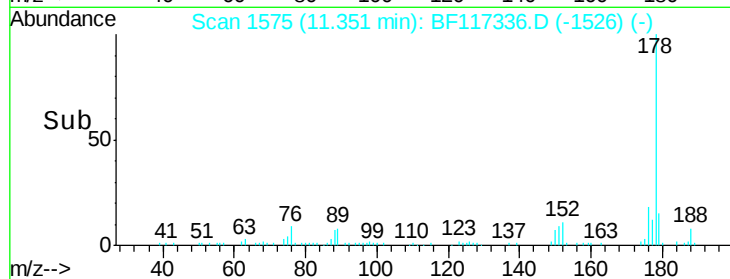
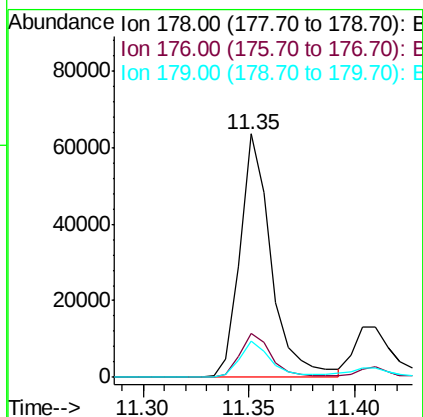
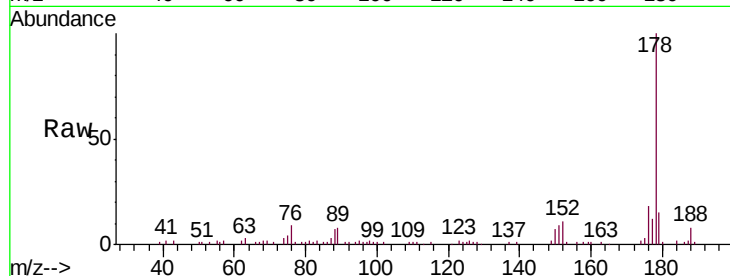




#71
 Phenanthrene
 Concen: 12.355 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

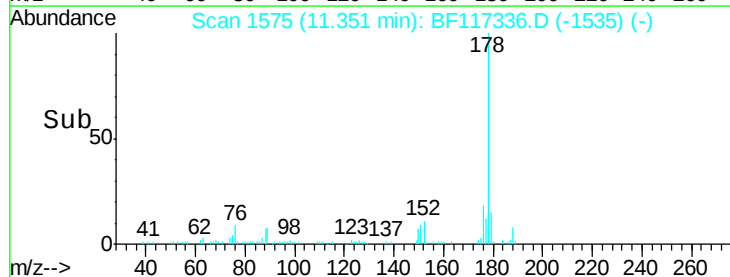
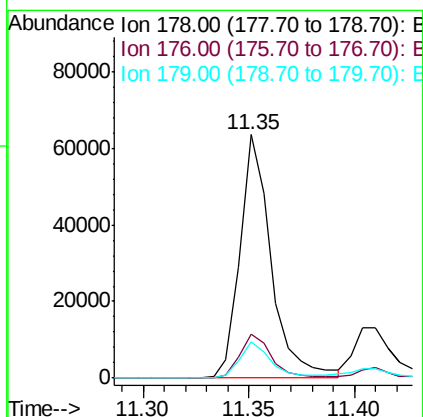
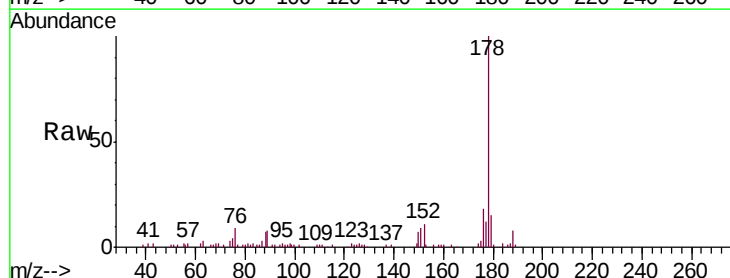
Instrument :
 BNA_F
 ClientSampleId :
 NBP-2019

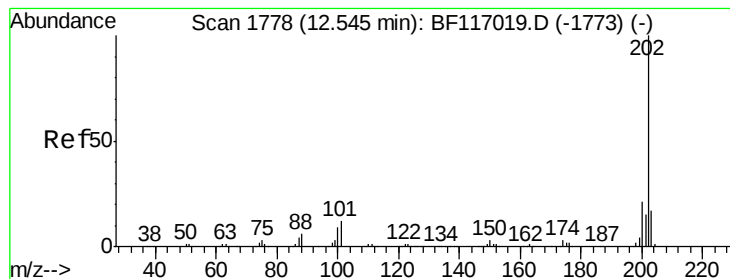
Tgt Ion:178 Resp: 65108
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.4 23.2
 179 15.1 12.4 18.6



#72
 Anthracene
 Concen: 12.102 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.06 min
 Lab File: BF117336.D
 Acq: 4 Oct 2019 00:11

Tgt Ion:178 Resp: 65108
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 21.8
 179 15.1 11.6 17.4





#75

Fluoranthene

Concen: 26.336 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

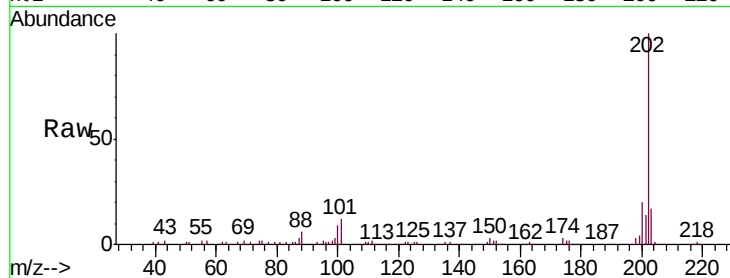
Tgt Ion:202 Resp: 142606

Ion Ratio Lower Upper

202 100

101 11.5 0.0 32.3

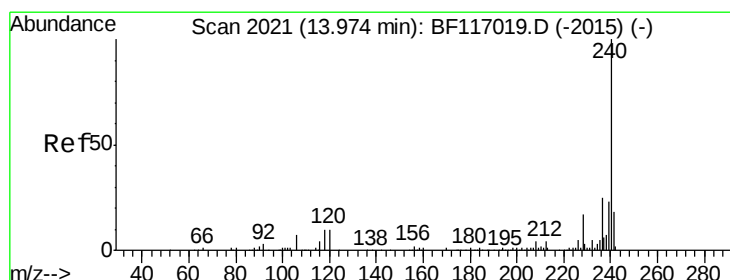
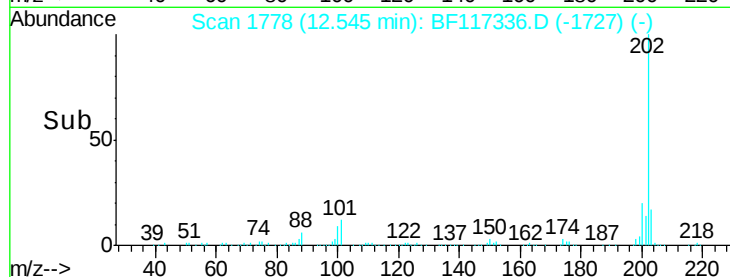
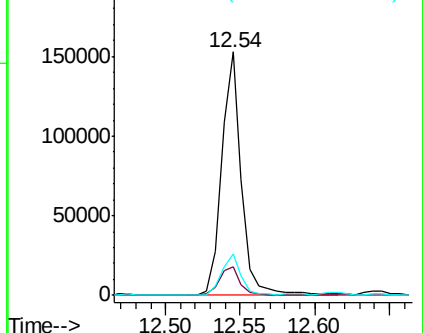
203 17.1 0.0 37.1



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# 2021

Delta R.T. 0.00 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

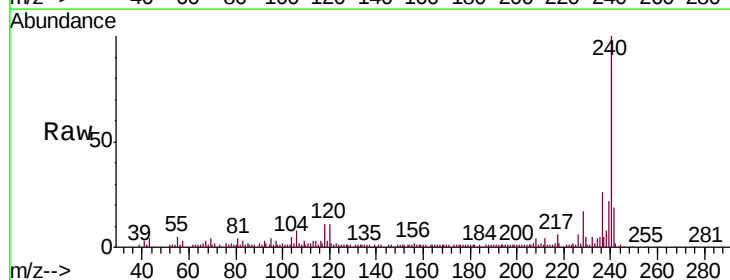
Tgt Ion:240 Resp: 85038

Ion Ratio Lower Upper

240 100

120 11.3 8.3 12.5

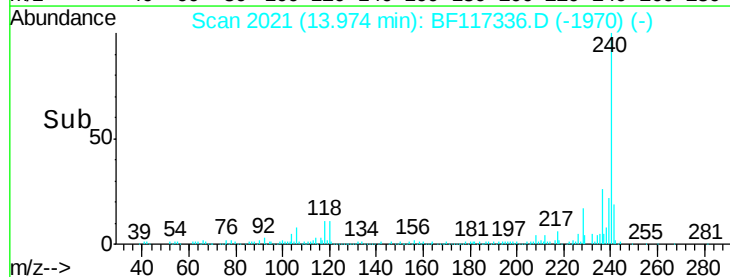
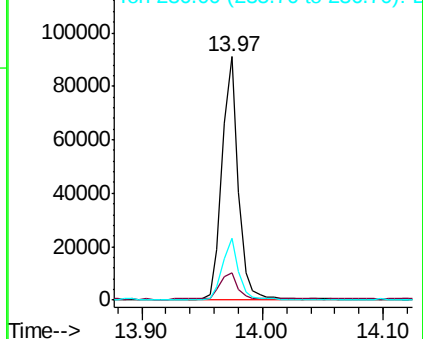
236 25.6 20.3 30.5

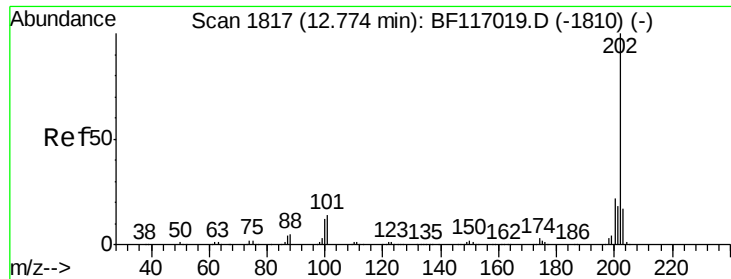


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 18.108 ng

RT: 12.77 min Scan# 1817

Delta R.T. 0.00 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

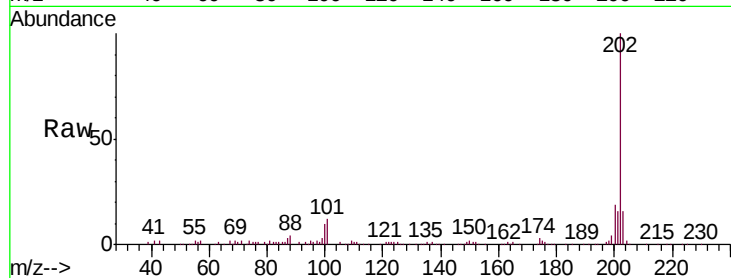
Tgt Ion:202 Resp: 129203

Ion Ratio Lower Upper

202 100

200 18.6 17.2 25.8

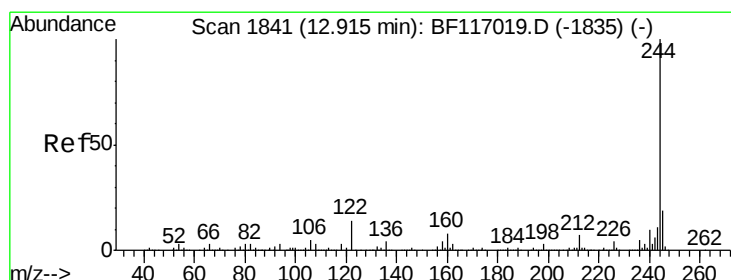
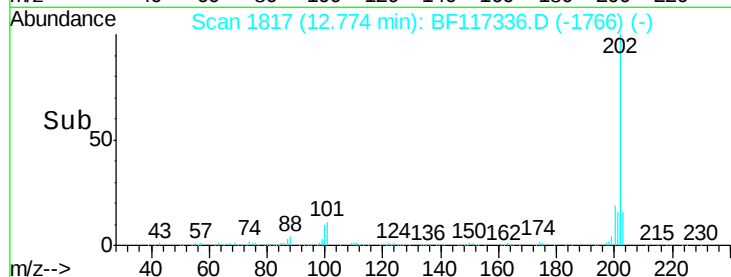
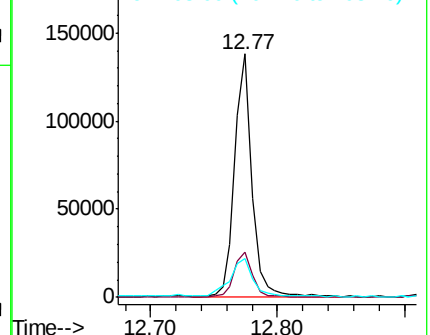
203 16.1 14.0 21.0



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: 66.770 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

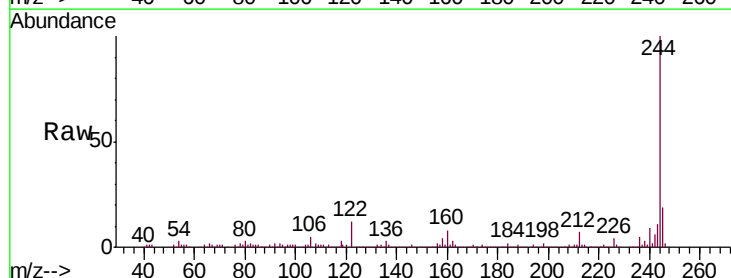
Tgt Ion:244 Resp: 303761

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

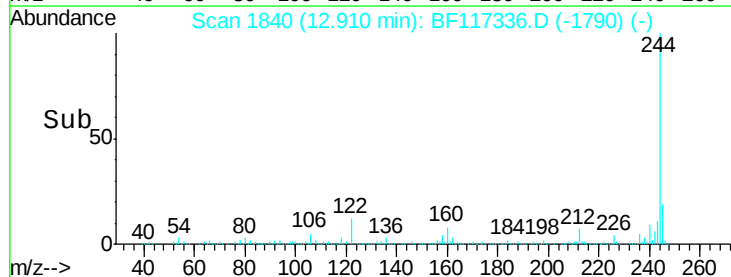
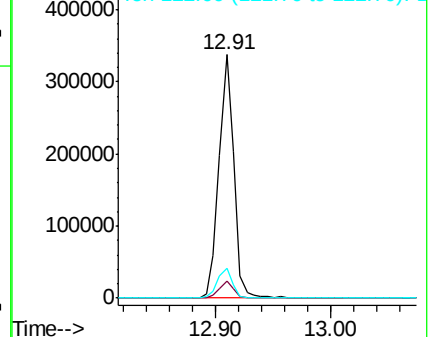
122 12.4 11.3 16.9

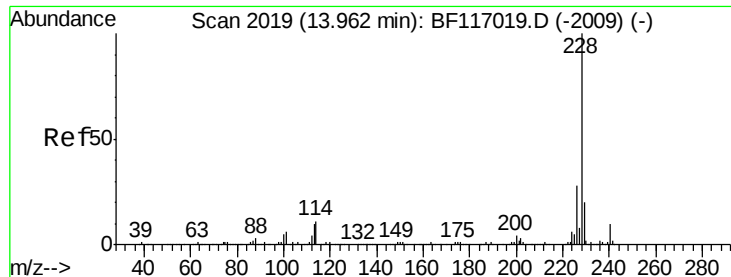


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

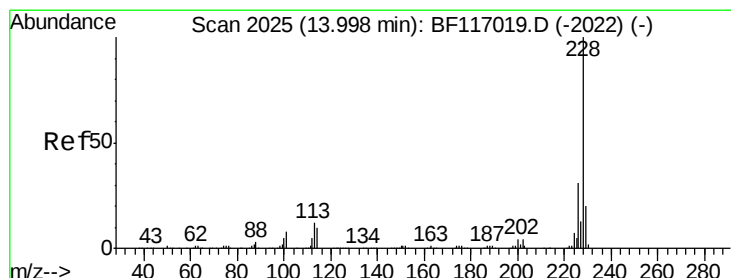
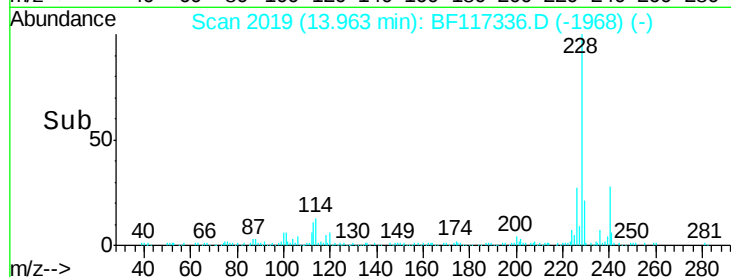
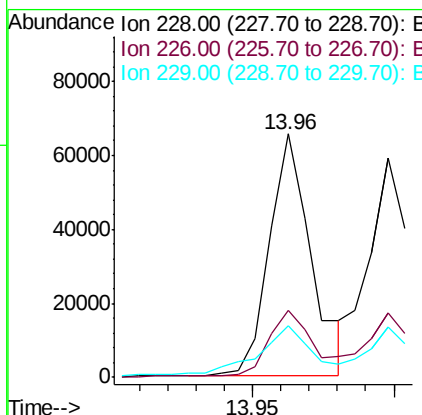
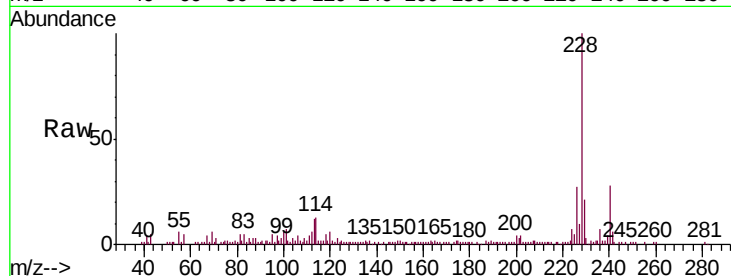




#81
Benzo(a)anthracene
Concen: 11.899 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.00 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

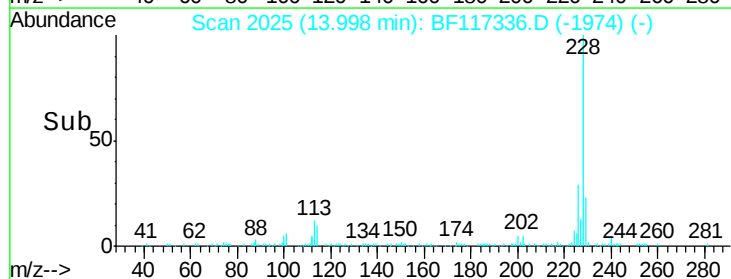
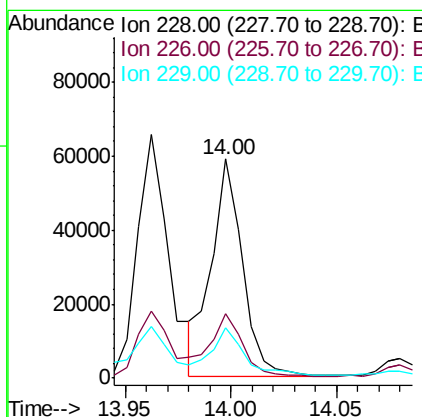
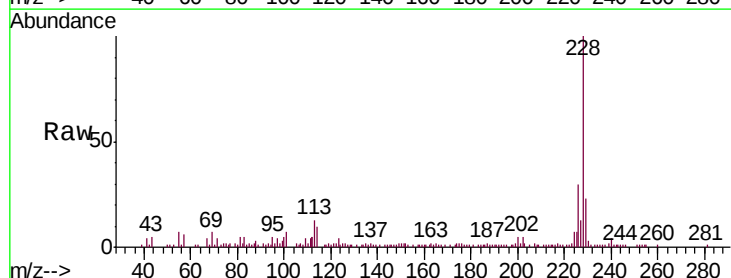
Instrument :
BNA_F
ClientSampleId :
NBP-2019

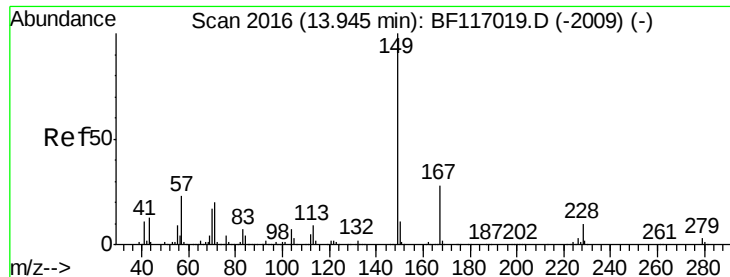
Tgt Ion:228 Resp: 67605
Ion Ratio Lower Upper
228 100
226 27.3 22.3 33.5
229 21.3 15.9 23.9



#83
Chrysene
Concen: 11.065 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.00 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

Tgt Ion:228 Resp: 61313
Ion Ratio Lower Upper
228 100
226 29.5 24.8 37.2
229 23.3 15.8 23.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.567 ng

RT: 13.94 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

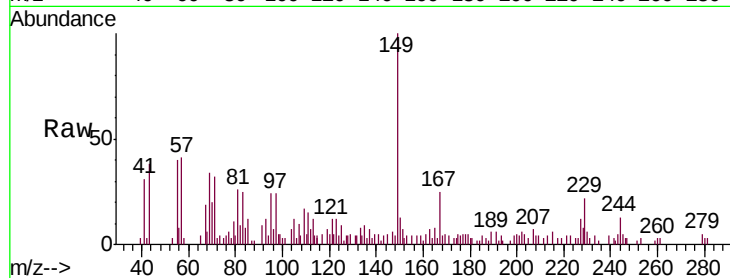
Tgt Ion:149 Resp: 11158

Ion Ratio Lower Upper

149 100

167 25.4 22.2 33.2

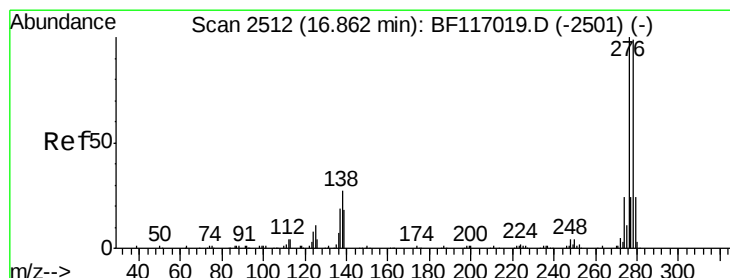
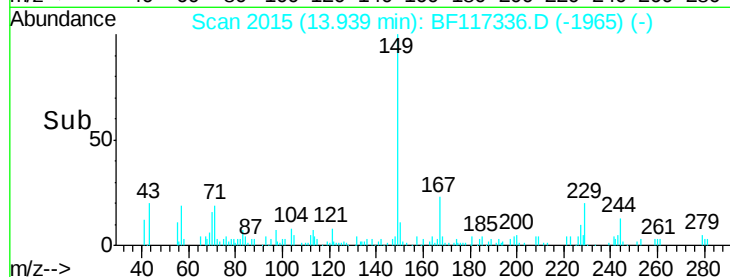
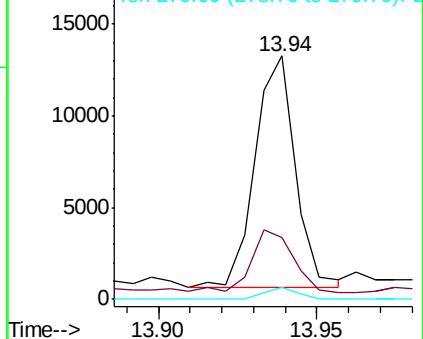
279 4.8 2.8 4.2#



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: 5.952 ng

RT: 16.89 min Scan# 2517

Delta R.T. 0.03 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

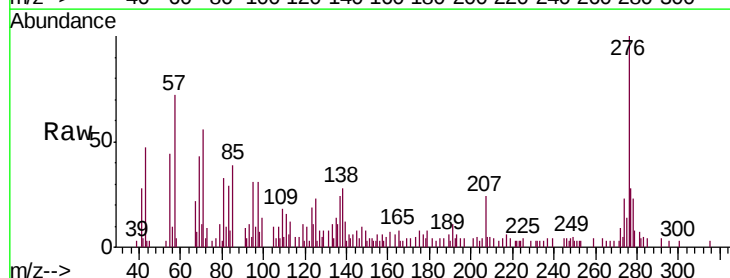
Tgt Ion:276 Resp: 24062

Ion Ratio Lower Upper

276 100

138 23.0 20.7 31.1

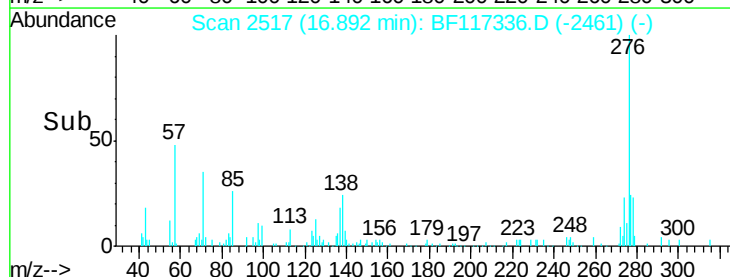
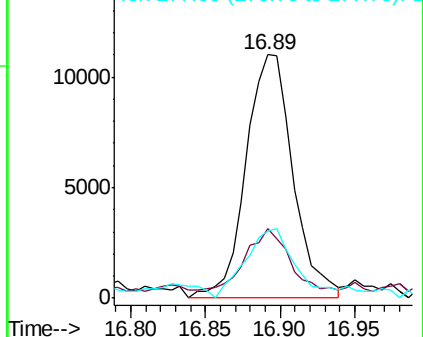
277 32.3 19.8 29.8#

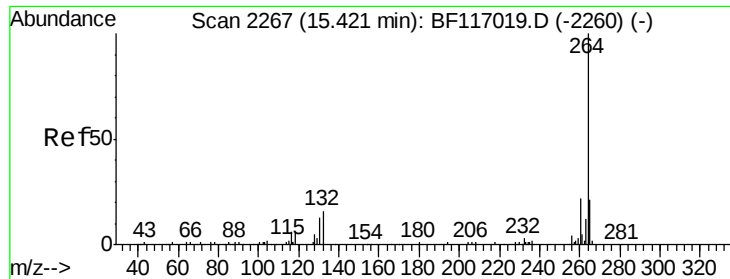


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2269

Delta R.T. 0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

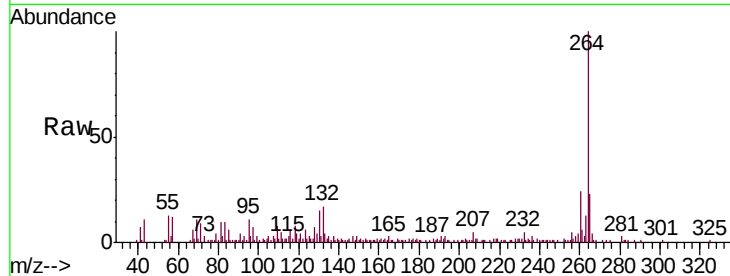
Tgt Ion:264 Resp: 64209

Ion Ratio Lower Upper

264 100

260 23.7 17.6 26.4

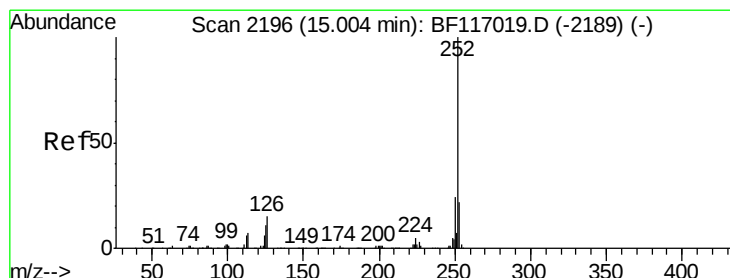
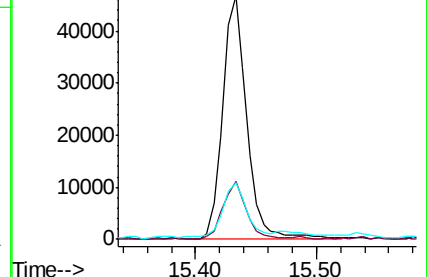
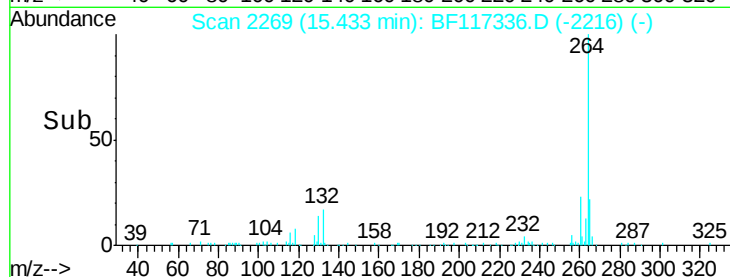
265 23.1 16.6 24.8



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: 20.710 ng

RT: 15.01 min Scan# 2197

Delta R.T. 0.01 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

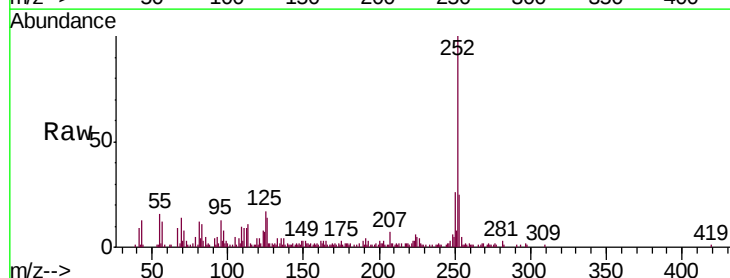
Tgt Ion:252 Resp: 80549

Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

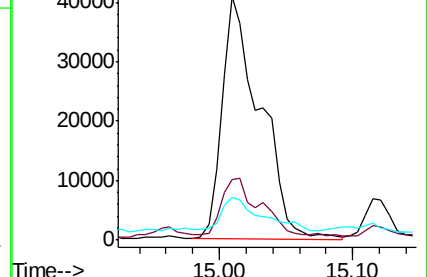
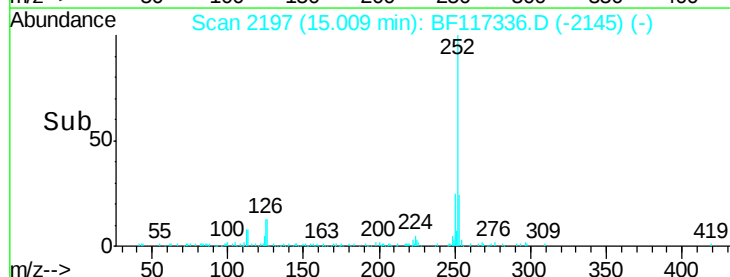
125 17.3 8.6 12.8#

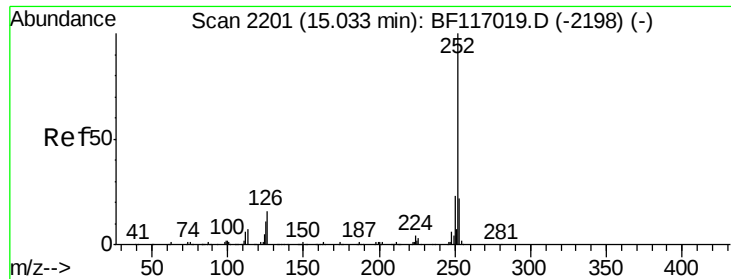


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

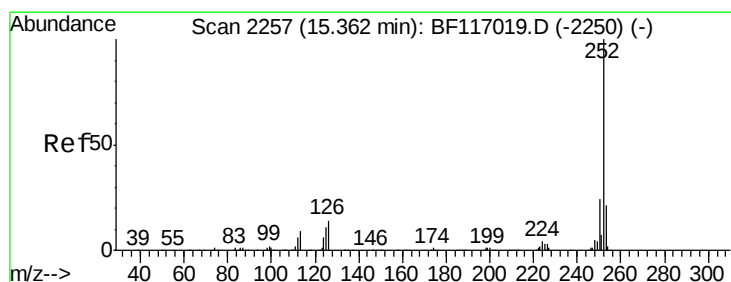
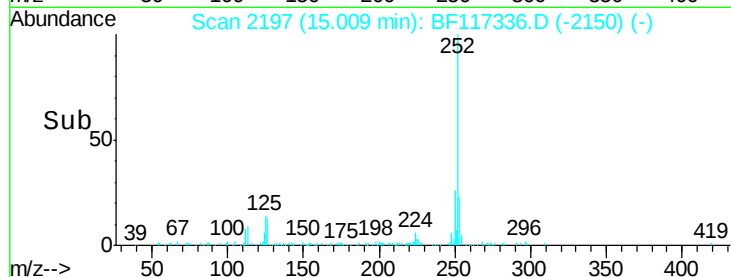
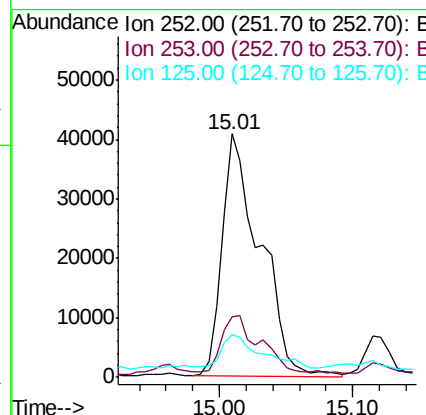
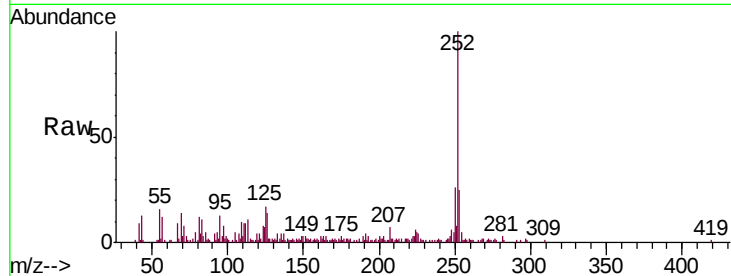




#89
Benzo(k)fluoranthene
Concen: 21.863 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.02 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

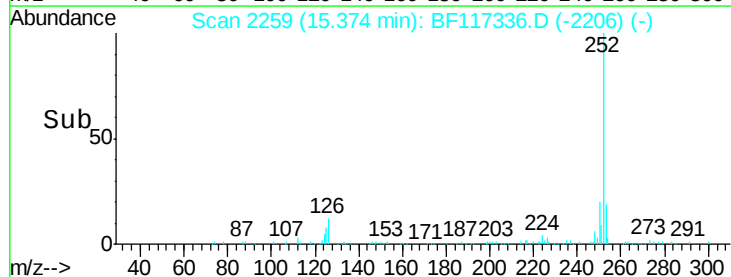
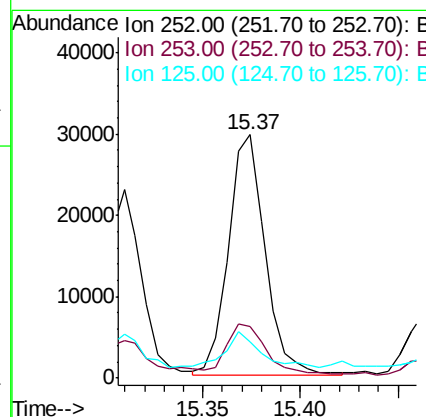
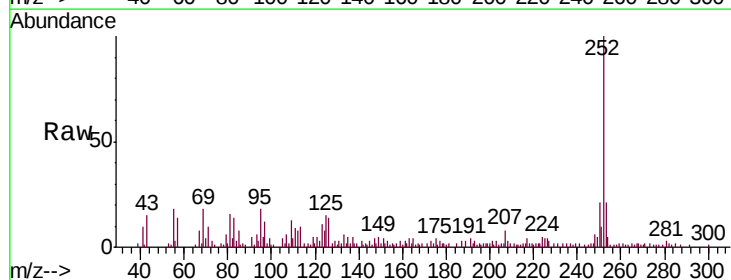
Instrument :
BNA_F
ClientSampleId :
NBP-2019

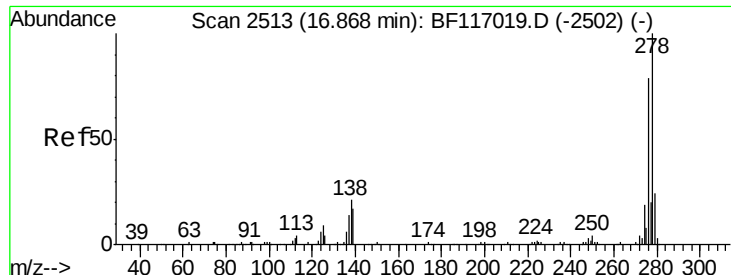
Tgt Ion:252 Resp: 80549
Ion Ratio Lower Upper
252 100
253 24.8 17.4 26.2
125 17.3 8.8 13.2#



#90
Benzo(a)pyrene
Concen: 11.244 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF117336.D
Acq: 4 Oct 2019 00:11

Tgt Ion:252 Resp: 38376
Ion Ratio Lower Upper
252 100
253 21.2 16.6 25.0
125 14.7 8.9 13.3#





#91

Dibenzo(a,h)anthracene

Concen: 2.184 ng

RT: 16.89 min Scan# 2516

Delta R.T. 0.02 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

Instrument :

BNA_F

ClientSampleId :

NBP-2019

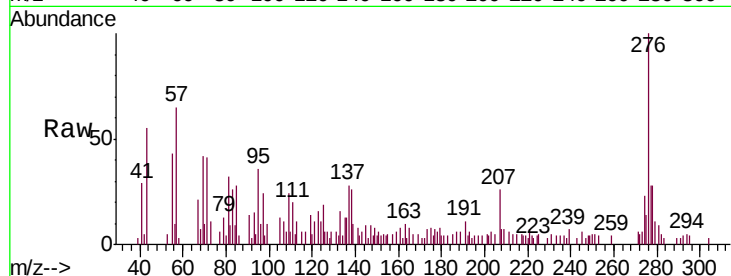
Tgt Ion:278 Resp: 5937

Ion Ratio Lower Upper

278 100

139 34.9 13.5 20.3#

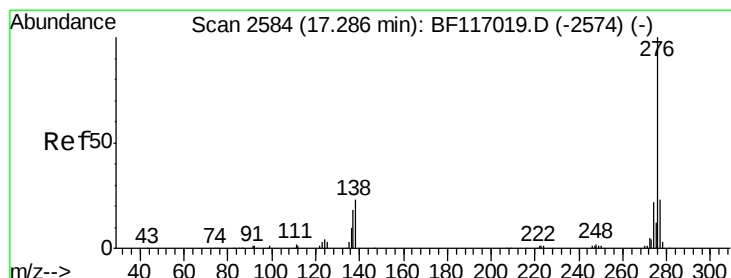
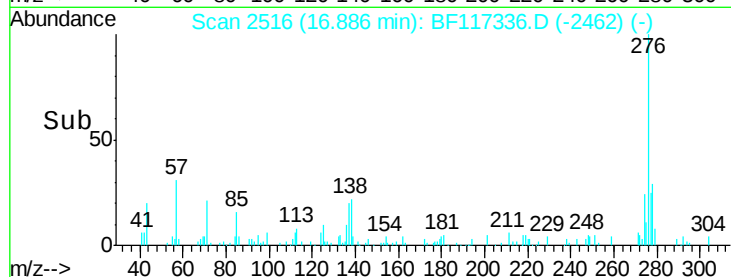
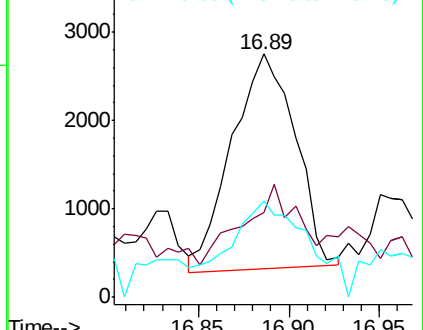
279 39.5 18.8 28.2#



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: 8.946 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.05 min

Lab File: BF117336.D

Acq: 4 Oct 2019 00:11

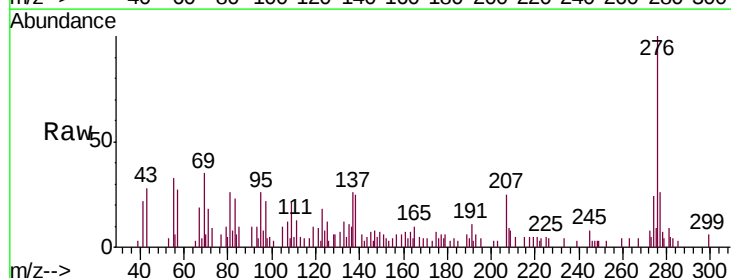
Tgt Ion:276 Resp: 24237

Ion Ratio Lower Upper

276 100

277 26.3 18.6 27.8

138 25.1 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

