

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\
 Data File : BF116560.D
 Acq On : 26 Aug 2019 6:50
 Operator : HP/JU
 Sample : K4509-10
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 26 08:42:53 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	6.88	152	137934	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	518536	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	230490	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	313479	20.00	ng	0.00
76) Chrysene-d12	14.03	240	222218	20.00	ng	0.00
87) Perylene-d12	15.50	264	188987	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	565407	59.89	ng	0.00
7) Phenol-d6	6.51	99	750920	64.87	ng	0.00
23) Nitrobenzene-d5	7.44	82	438327	46.25	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	73796	37.29	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	754293	52.70	ng	0.00
79) Terphenyl-d14	12.98	244	518722	43.60	ng	0.00

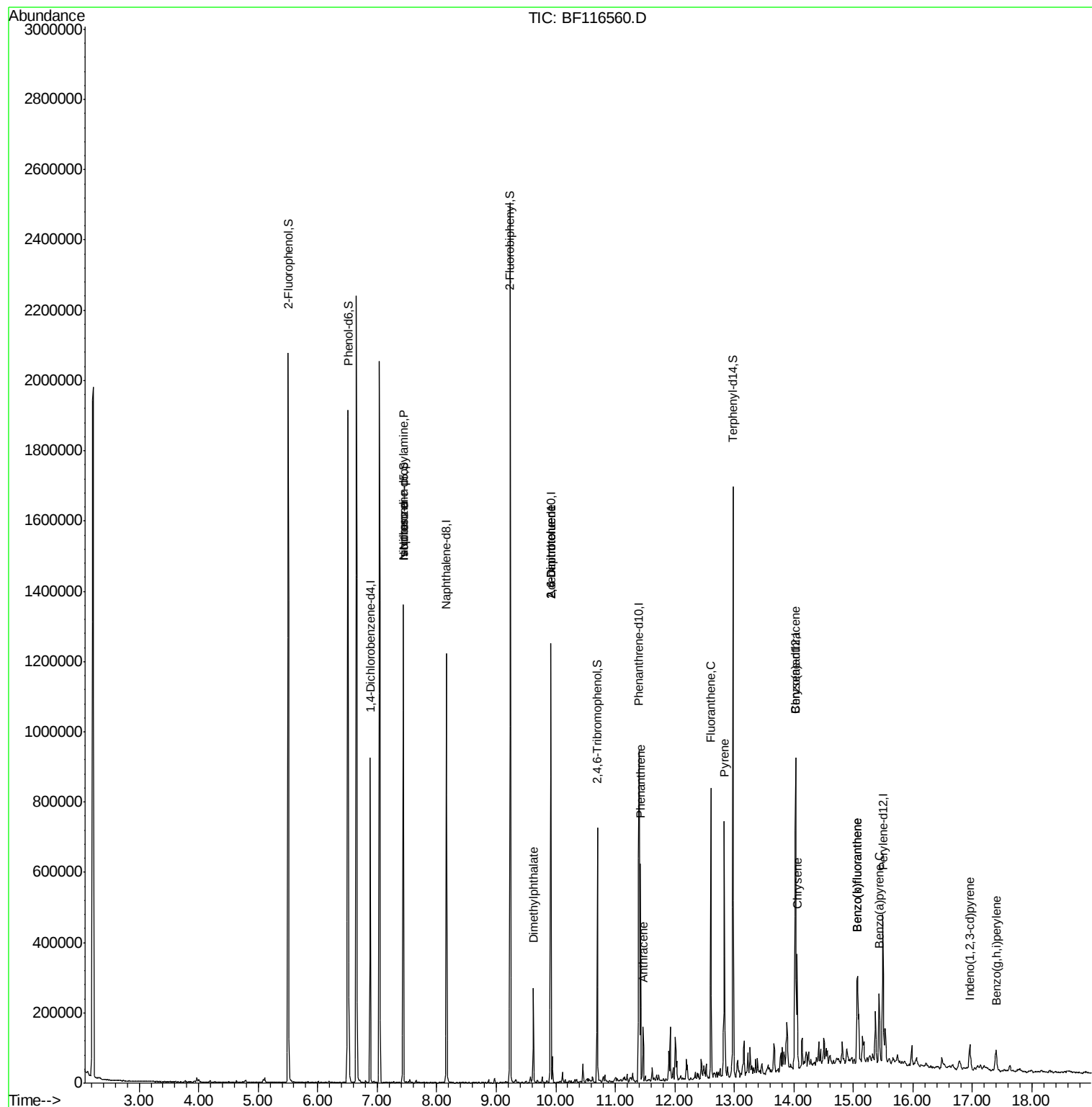
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	59913	7.586	ng	# 77
25) Isophorone	7.44	82	436372	23.363	ng	# 67
50) Dimethylphthalate	9.62	163	97939	6.090	ng	99
51) 2,6-Dinitrotoluene	9.92	165	30225	9.182	ng	# 25
57) 2,4-Dinitrotoluene	9.92	165	30225	7.216	ng	# 21
71) Phenanthrene	11.42	178	207229	12.135	ng	99
72) Anthracene	11.47	178	47589	2.773	ng	99
75) Fluoranthene	12.61	202	329872	18.684	ng	99
78) Pyrene	12.83	202	291373	16.396	ng	99
81) Benzo(a)anthracene	14.02	228	146937	10.209	ng	99
83) Chrysene	14.06	228	131315	9.002	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	49893	3.993	ng	93
88) Benzo(b)fluoranthene	15.07	252	184272	15.784	ng	99
89) Benzo(k)fluoranthene	15.07	252	184272	17.422	ng	99
90) Benzo(a)pyrene	15.43	252	93186	9.031	ng	98
92) Benzo(g,h,i)perylene	17.40	276	44972	5.564	ng	94

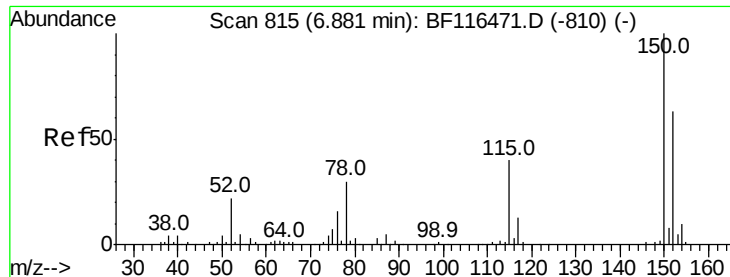
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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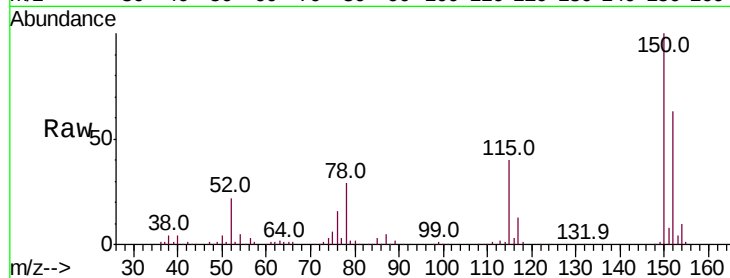


#1

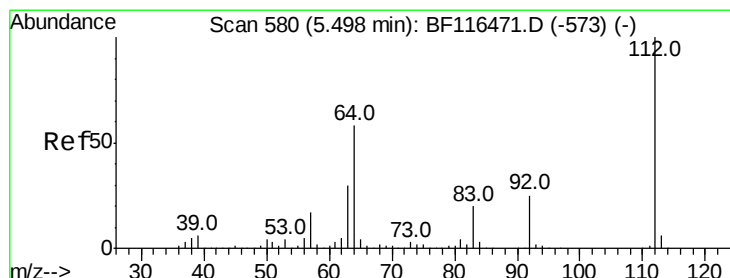
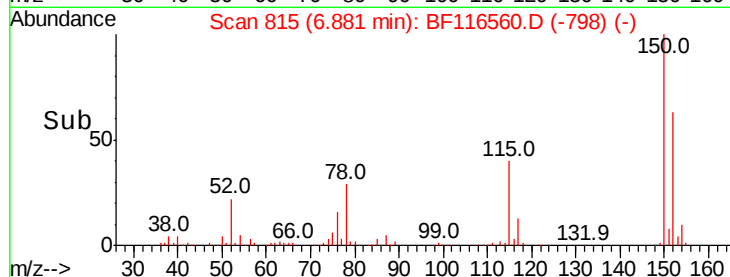
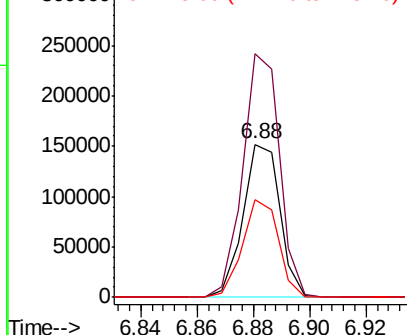
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 137934
Ion Ratio Lower Upper
152 100
150 159.1 126.7 190.1
115 64.0 50.9 76.3



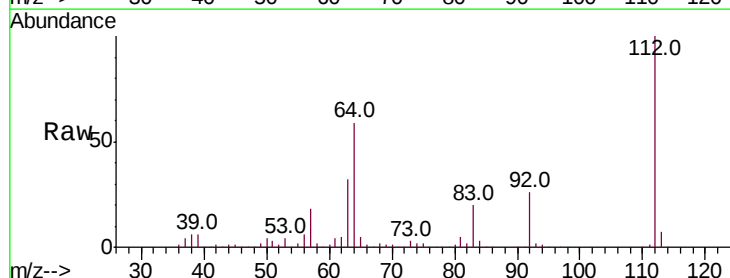
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



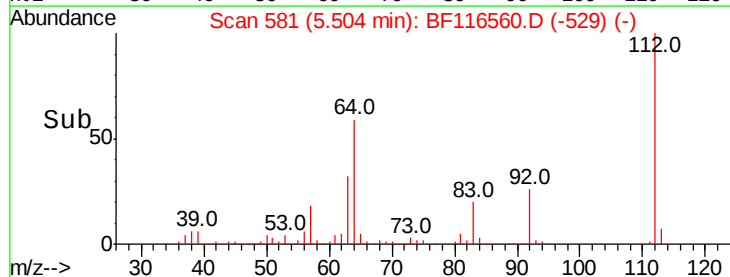
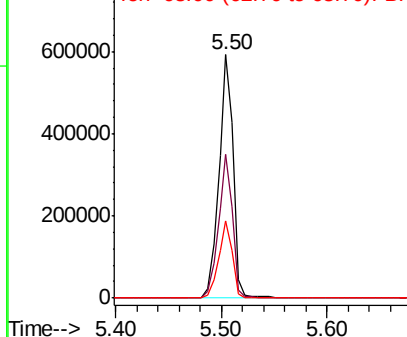
#5

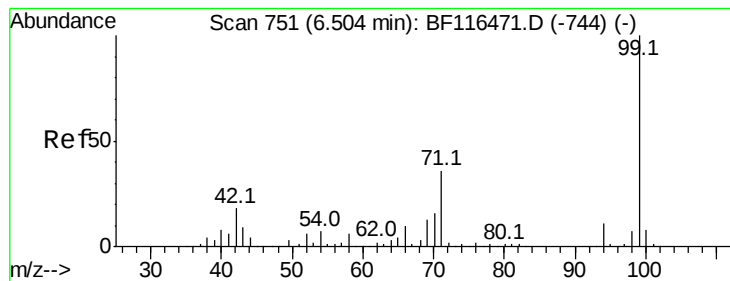
2-Fluorophenol
Concen: 59.894 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Tgt Ion:112 Resp: 565407
Ion Ratio Lower Upper
112 100
64 59.0 46.3 69.5
63 31.7 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: 64.874 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Instrument :

BNA_F

ClientSampleId :

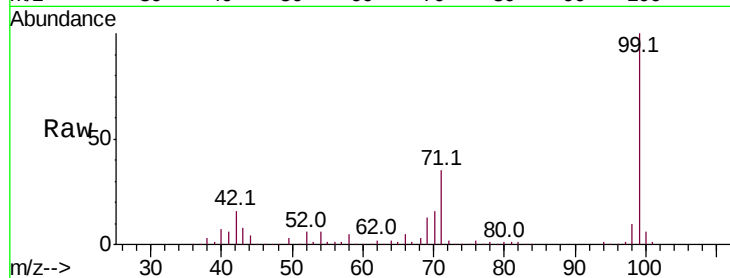
Tot Ion: 99 Resp: 750920

Ion Ratio Lower Upper

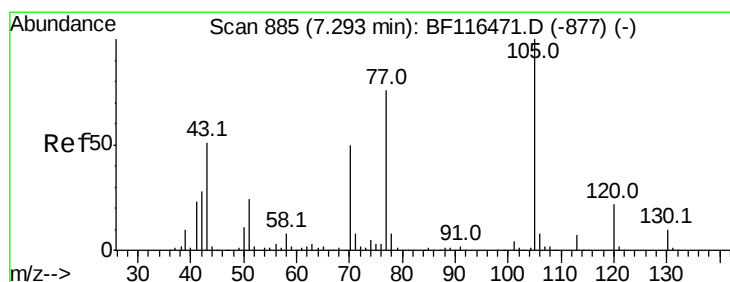
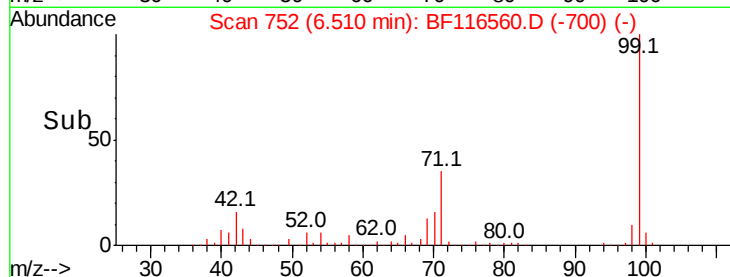
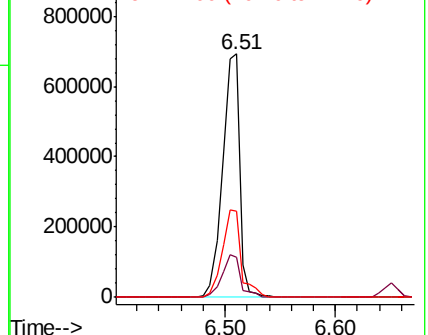
99 100

42 16.3 14.6 21.8

71 35.1 28.5 42.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 7.586 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Tgt Ion: 70 Resp: 59913

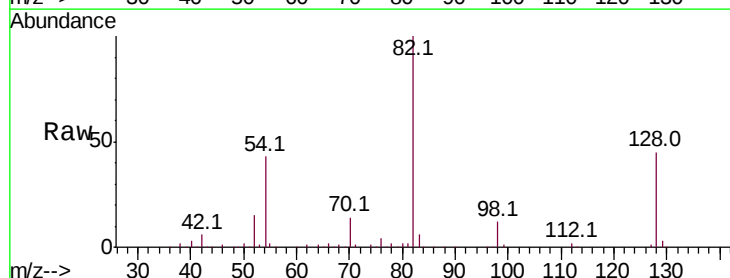
Ion Ratio Lower Upper

70 100

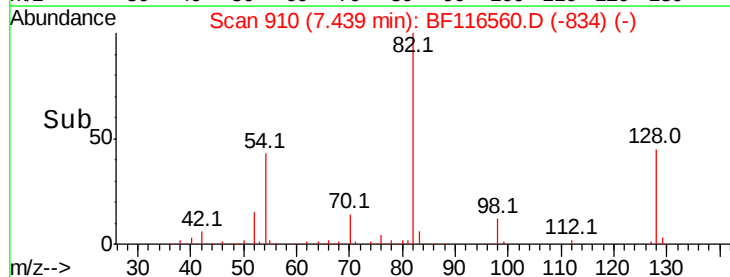
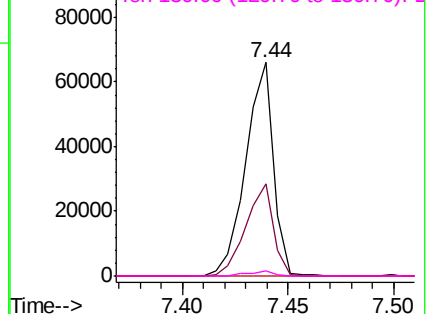
42 43.0 44.4 66.6#

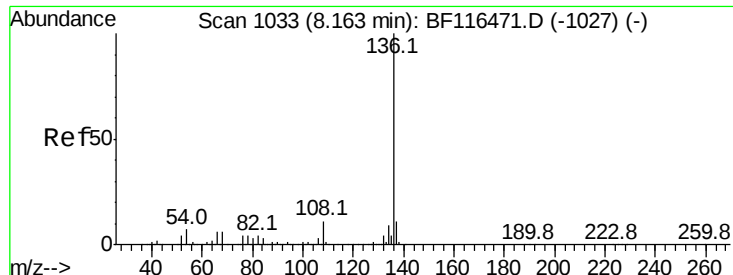
101 0.0 7.1 10.7#

130 2.3 15.8 23.8#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1

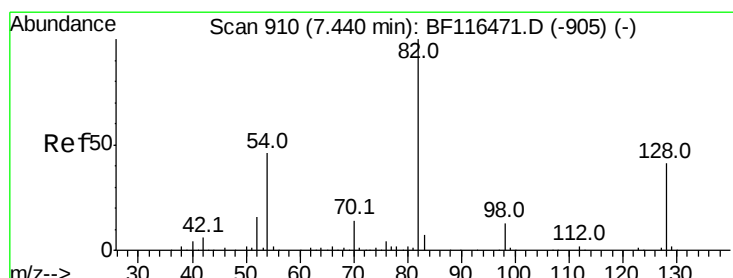
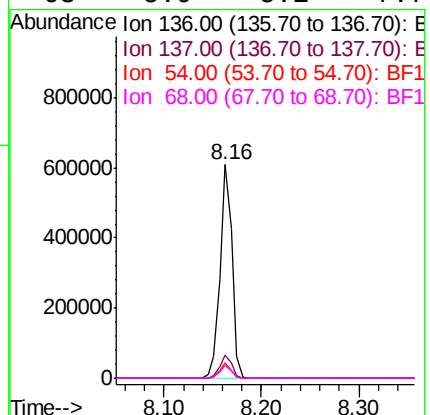
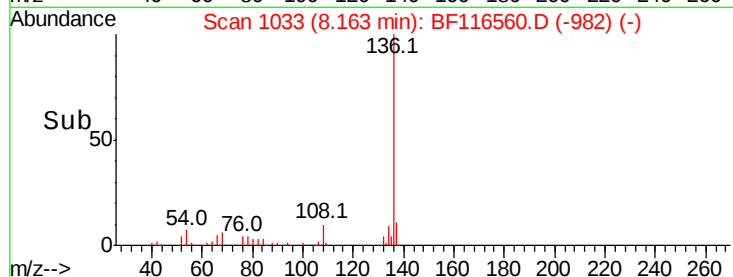
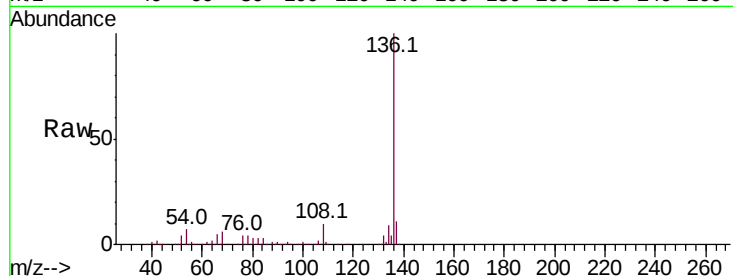




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

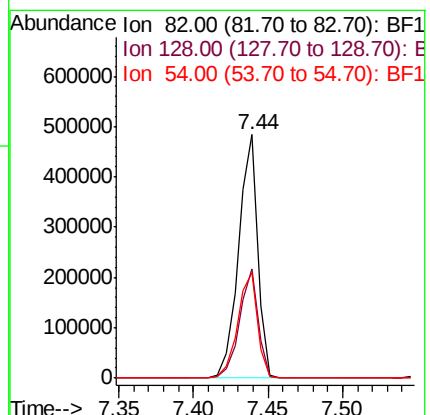
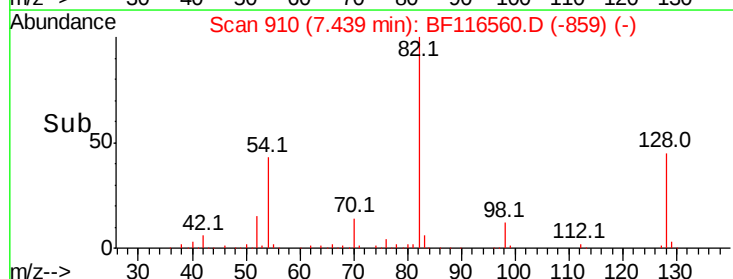
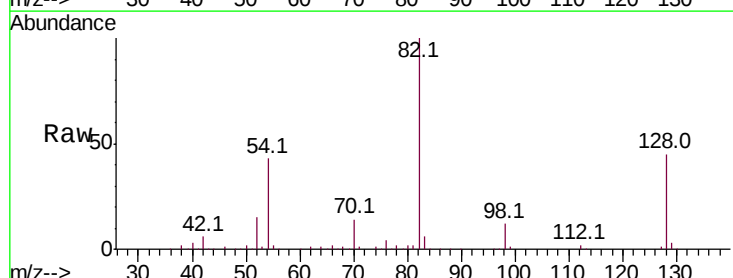
Instrument :
BNA_F
ClientSampleId :

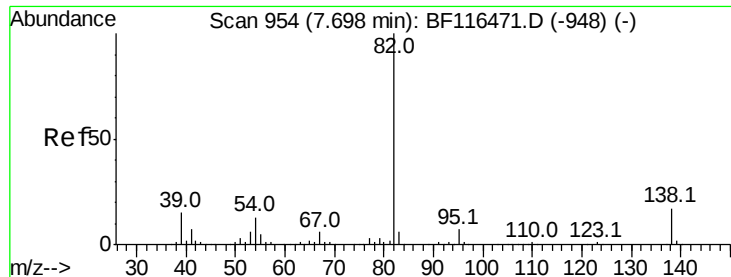
Tot Ion:136	Resp:	518536
Ion Ratio	Lower	Upper
136	100	
137	10.8	9.0 13.4
54	7.1	5.8 8.6
68	5.9	5.1 7.7



#23
Nitrobenzene-d5
Concen: 46.247 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Tgt Ion: 82	Resp:	438327
Ion Ratio	Lower	Upper
82	100	
128	45.1	32.2 48.4
54	43.5	36.5 54.7





#25

Isophorone

Concen: 23.363 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Instrument :

BNA_F

ClientSampleId :

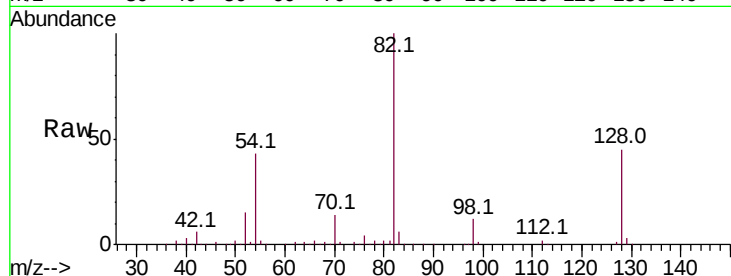
Tot Ion: 82 Resp: 436372

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

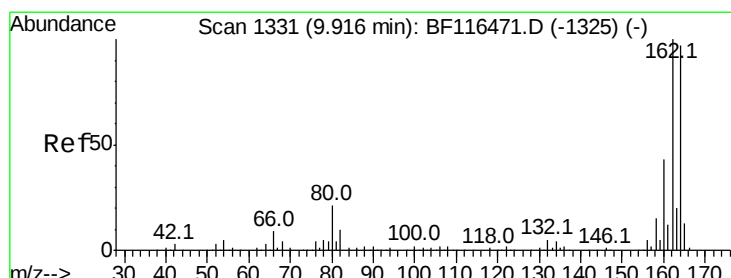
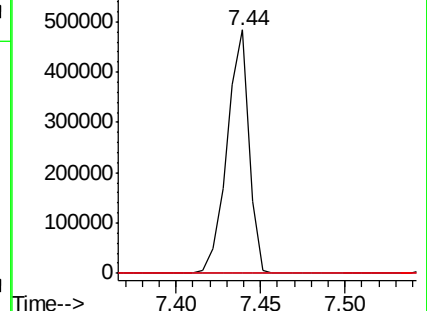
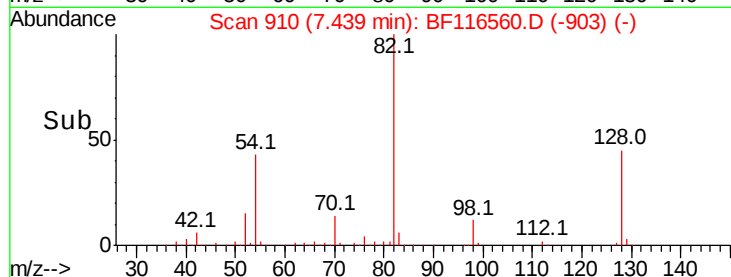
138 0.0 13.3 19.9#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

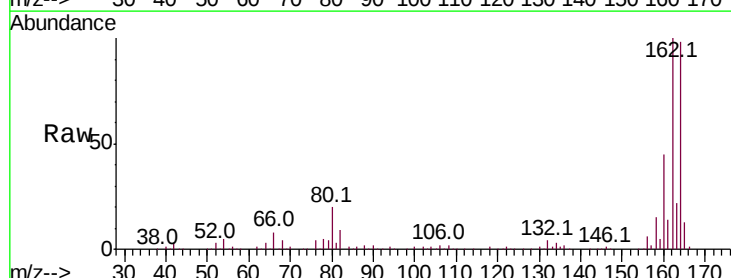
Tgt Ion:164 Resp: 230490

Ion Ratio Lower Upper

164 100

162 102.4 82.6 123.8

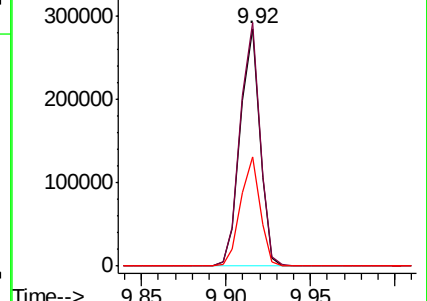
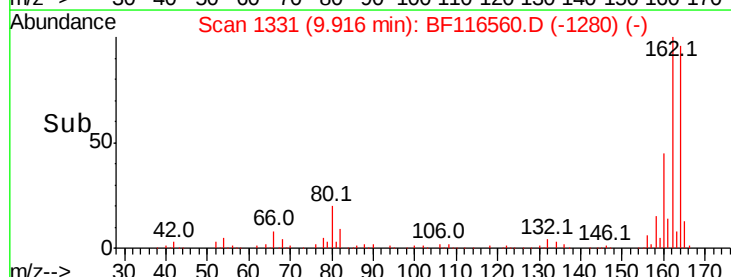
160 45.9 35.8 53.8

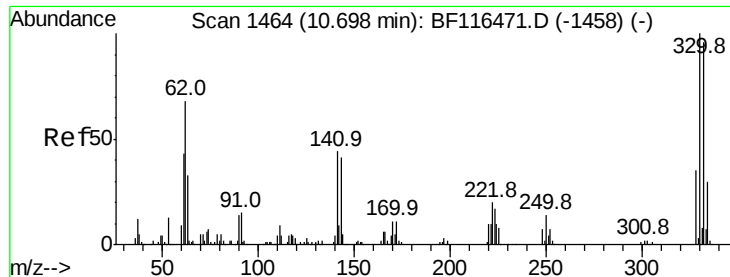


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

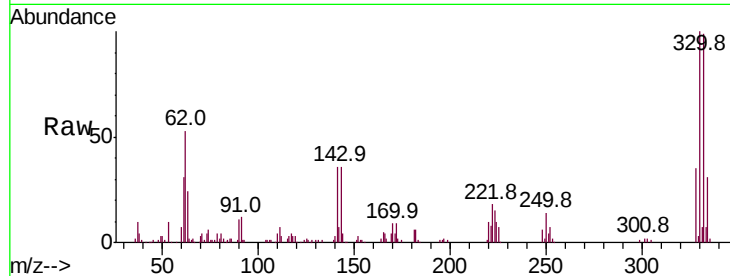




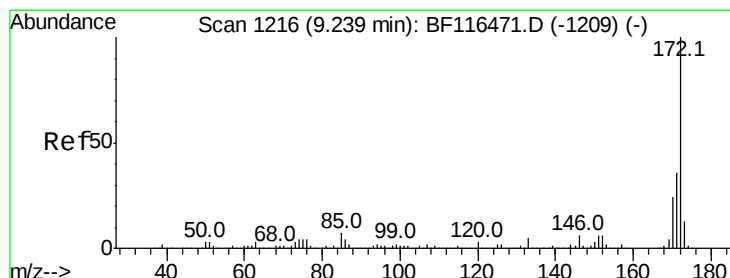
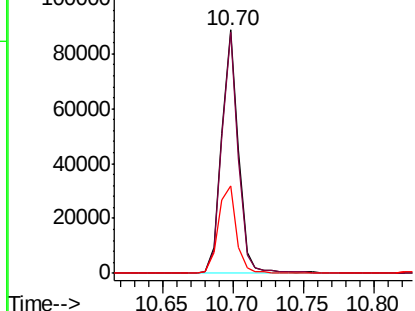
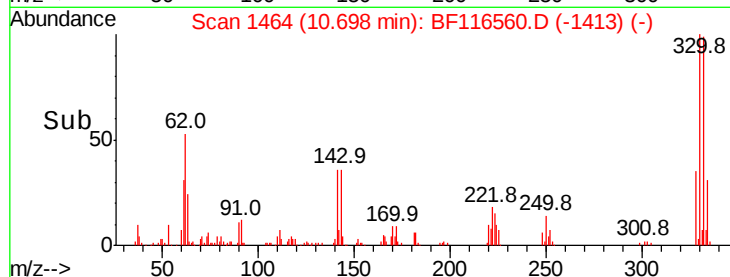
#42
 2,4,6-Tribromophenol
 Concen: 37.287 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.00 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.2	115.8
141	38.5	33.3	49.9

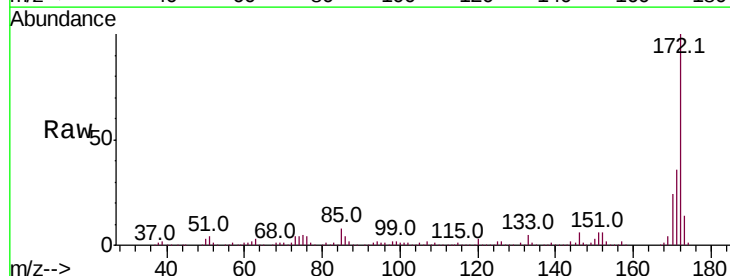


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

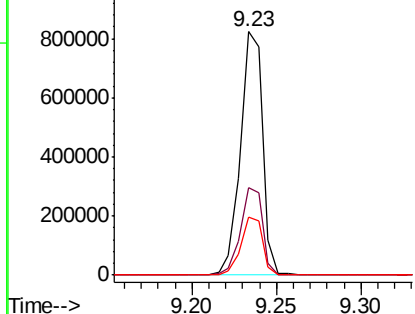
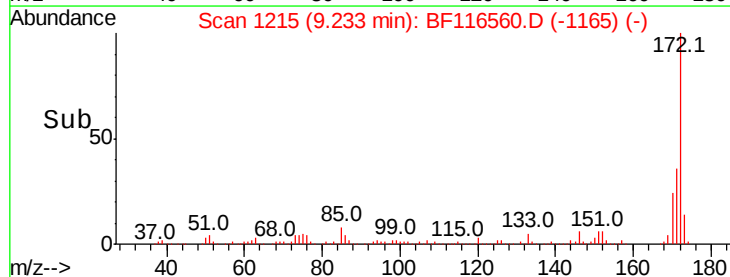


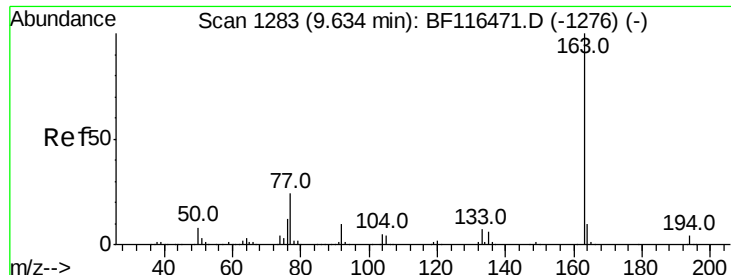
#45
 2-Fluorobiphenyl
 Concen: 52.702 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.9	43.3
170	23.6	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

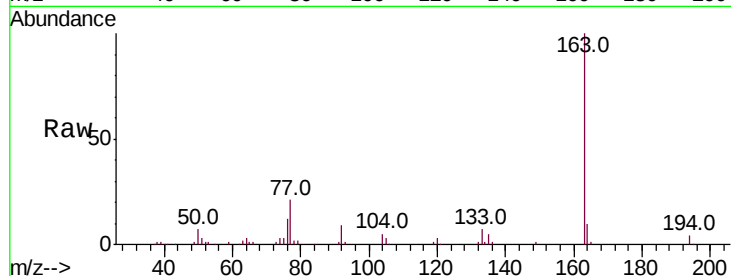




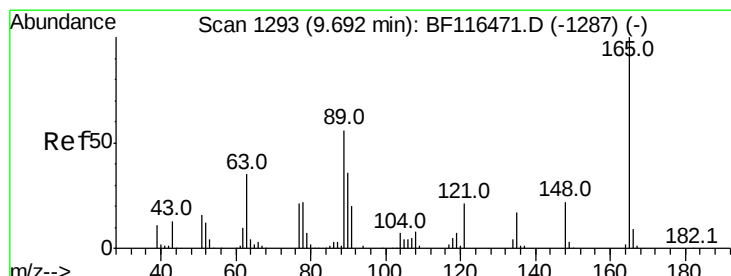
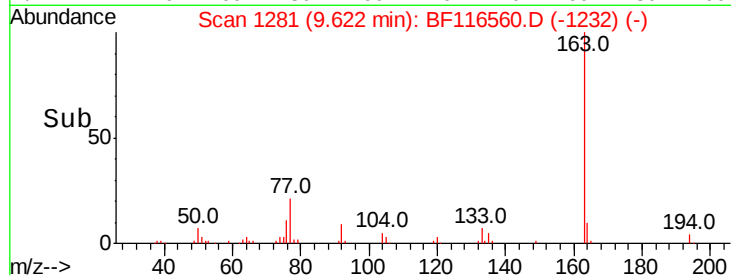
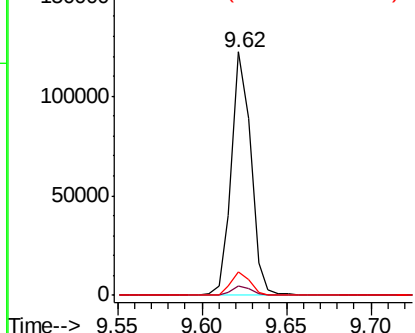
#50
Dimethylphthalate
Concen: 6.090 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.9	4.3
164	9.8	8.2	12.2

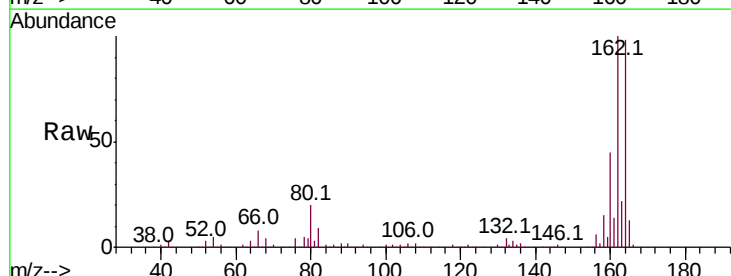


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

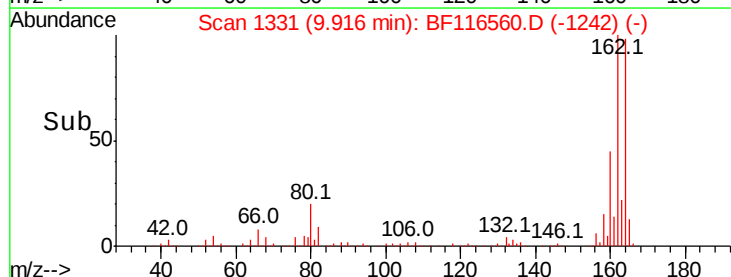
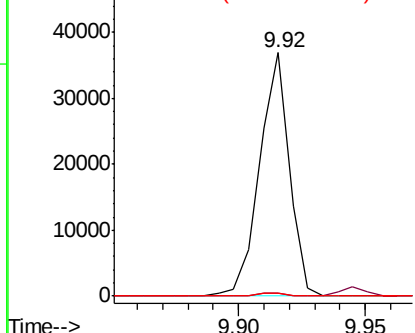


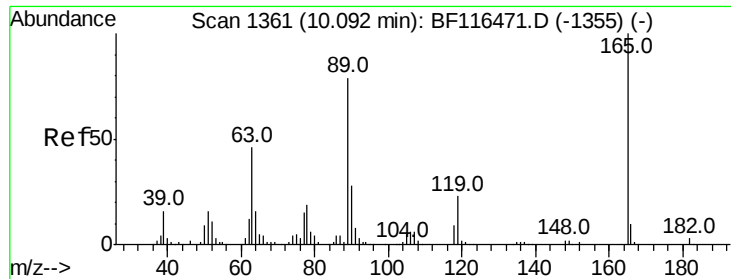
#51
2,6-Dinitrotoluene
Concen: 9.182 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.22 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	43.7	65.5#
89	1.5	45.1	67.7#



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

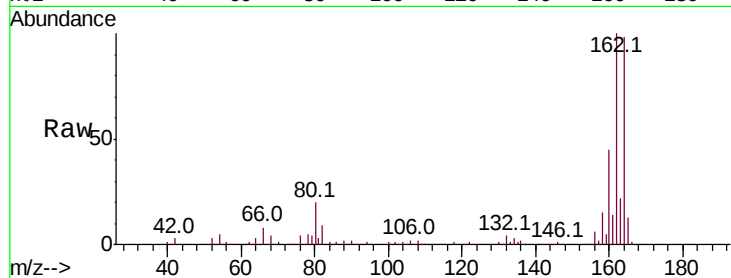




#57
 2,4-Dinitrotoluene
 Concen: 7.216 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.18 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	36.9	55.3#
89	1.5	63.4	95.0#
182	0.0	2.1	3.1#

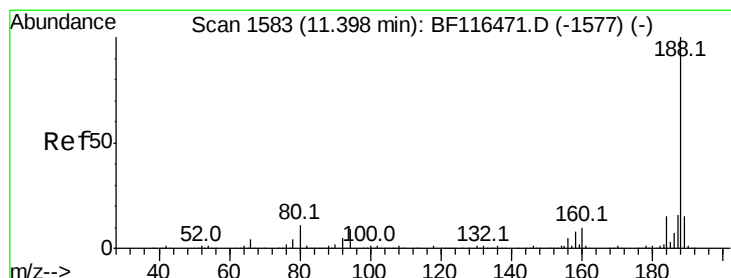
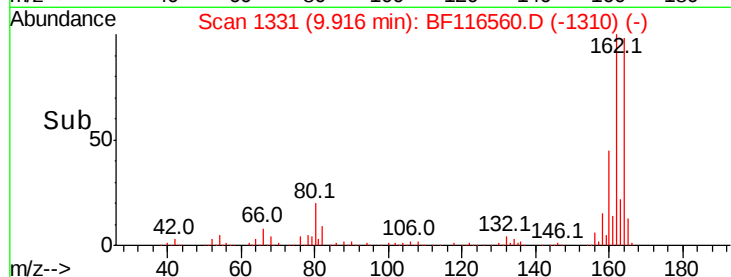
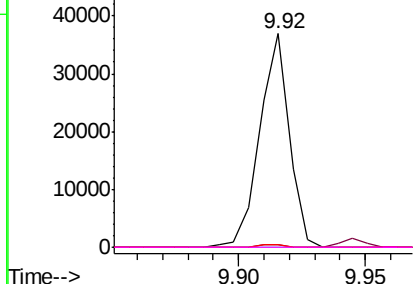


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

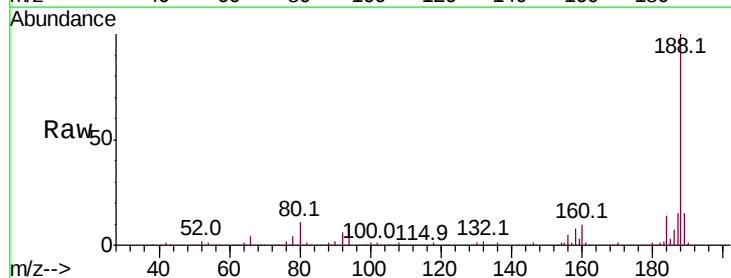
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

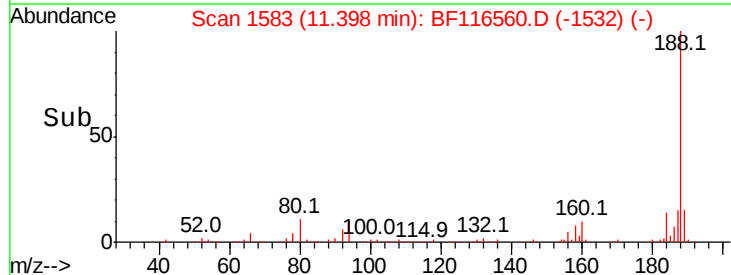
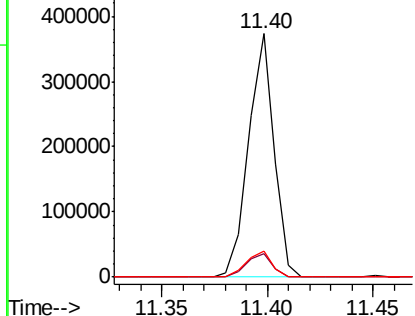
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.7	8.6	12.8

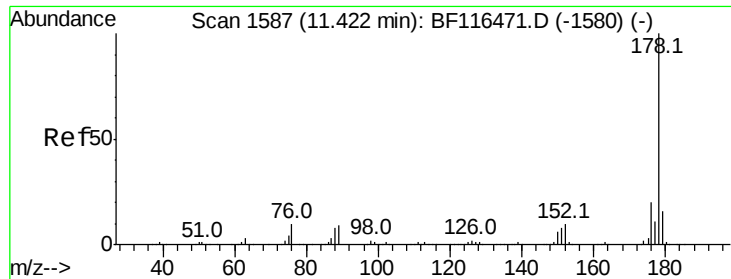


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

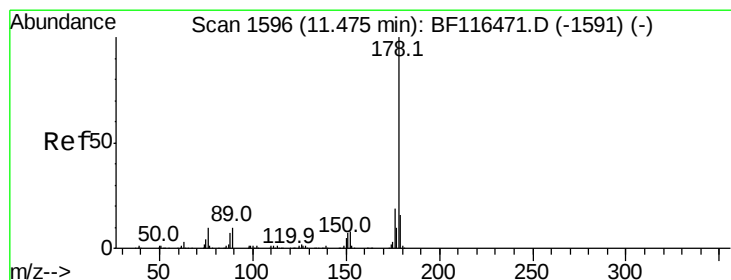
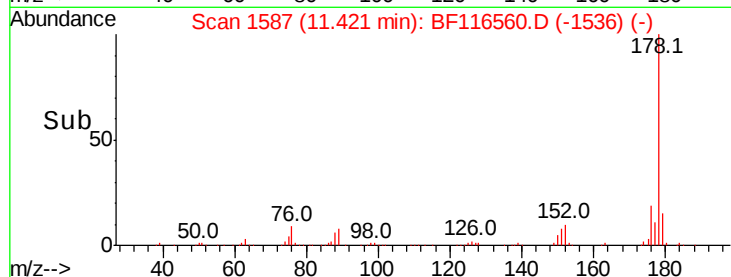
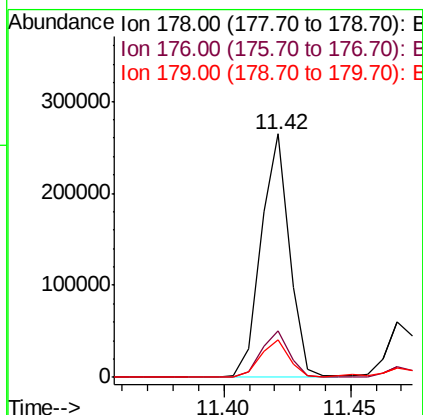
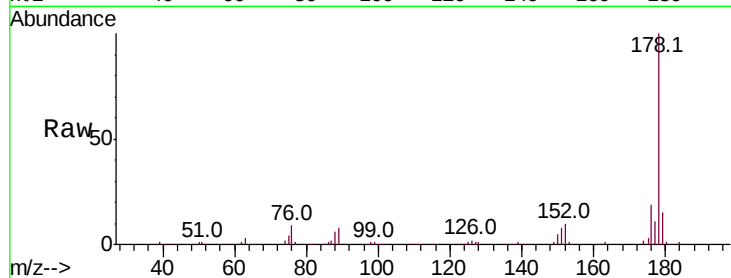




#71
 Phenanthrene
 Concen: 12.135 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

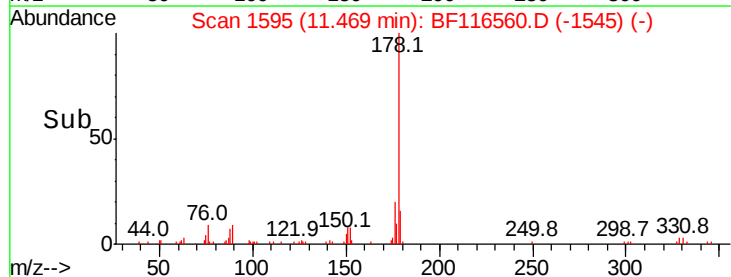
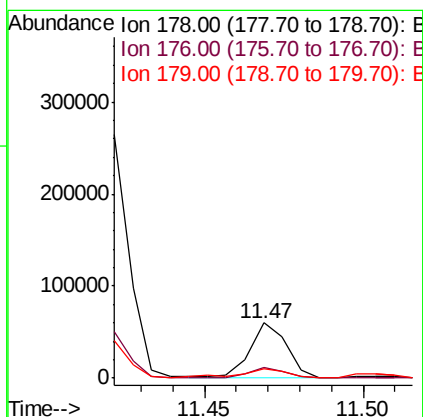
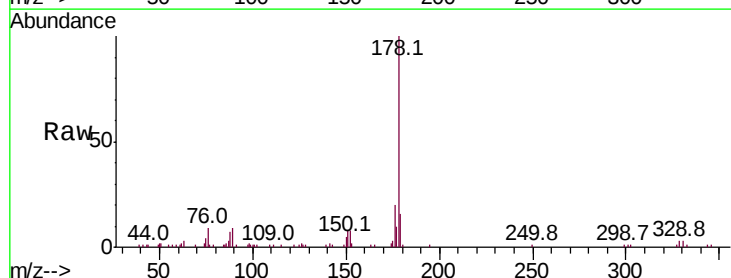
Instrument :
 BNA_F
 ClientSampleId :

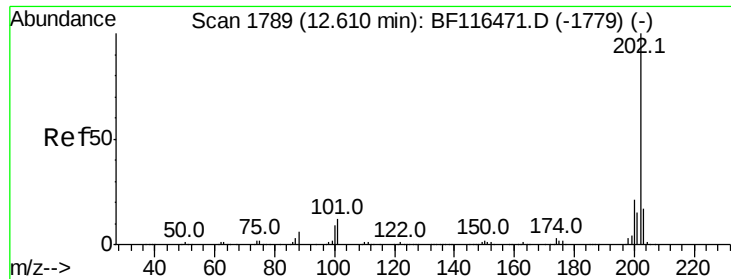
Tot Ion:178 Resp: 207229
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.6
 179 15.5 12.8 19.2



#72
 Anthracene
 Concen: 2.773 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Tgt Ion:178 Resp: 47589
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.2 22.8
 179 16.1 12.5 18.7





#75

Fluoranthene

Concen: 18.684 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.00 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Instrument :

BNA_F

ClientSampleId :

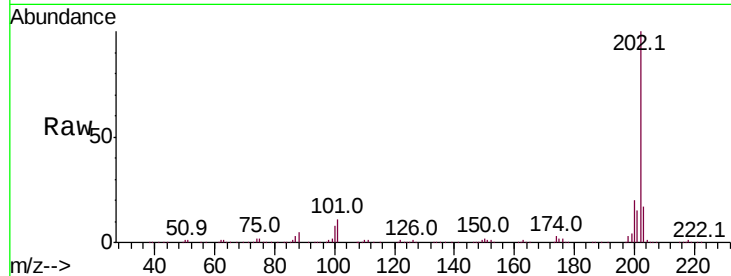
Tot Ion:202 Resp: 329872

Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.5

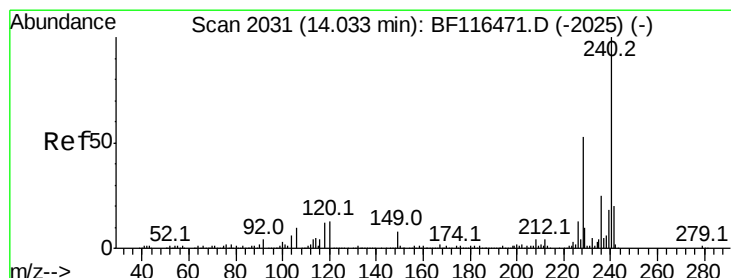
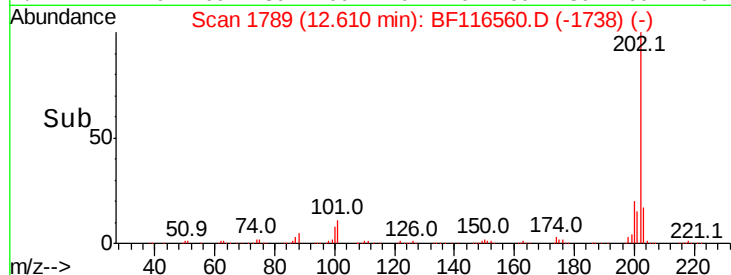
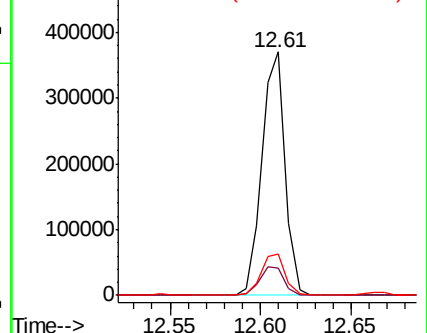
203 16.9 0.0 37.5



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: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

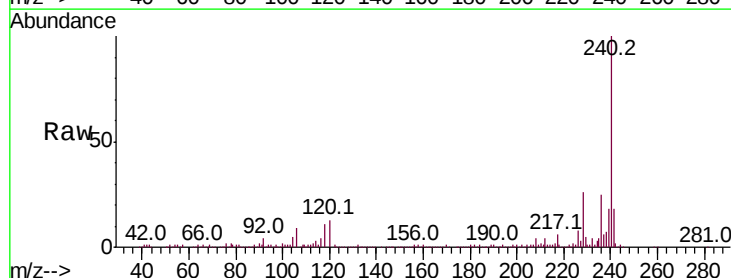
Tgt Ion:240 Resp: 222218

Ion Ratio Lower Upper

240 100

120 12.9 10.5 15.7

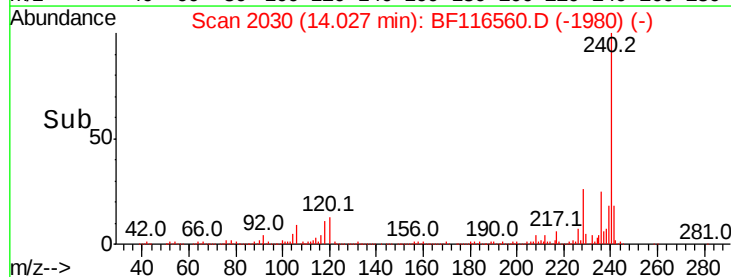
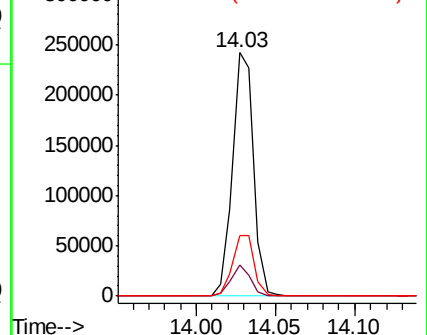
236 24.9 20.2 30.2

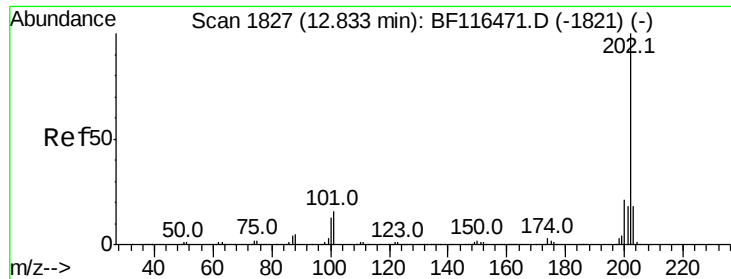


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

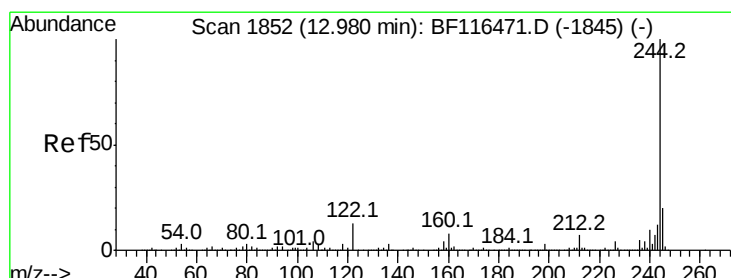
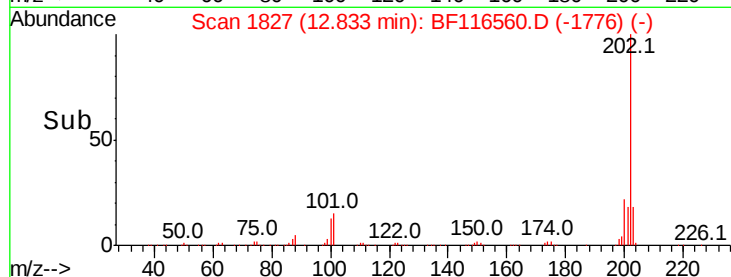
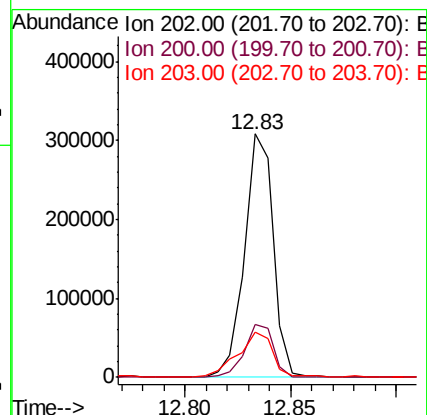
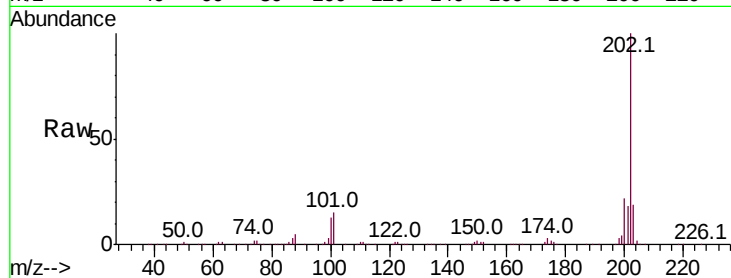




#78
Pvrene
Concen: 16.396 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.00 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

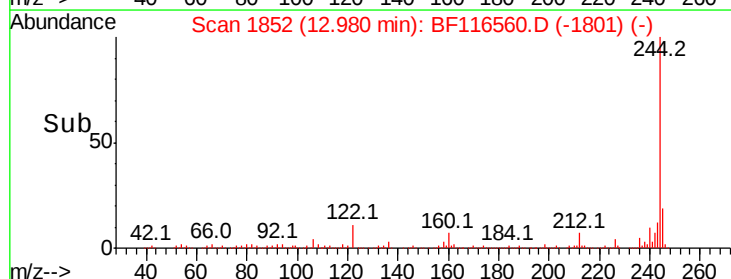
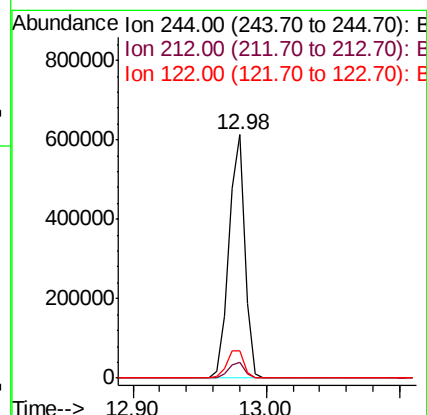
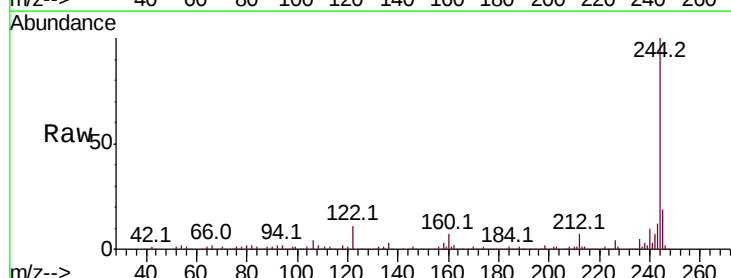
Instrument :
BNA_F
ClientSampleId :

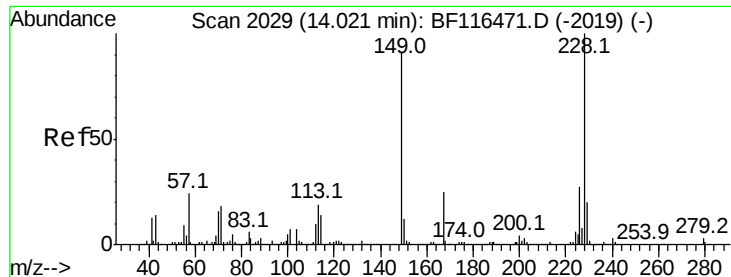
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.0	25.4
203	18.6	14.2	21.4



#79
Terphenyl-d14
Concen: 43.602 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.00 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	11.4	10.2	15.4





#81

Benzo(a)anthracene

Concen: 10.209 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Instrument :

BNA_F

ClientSampleId :

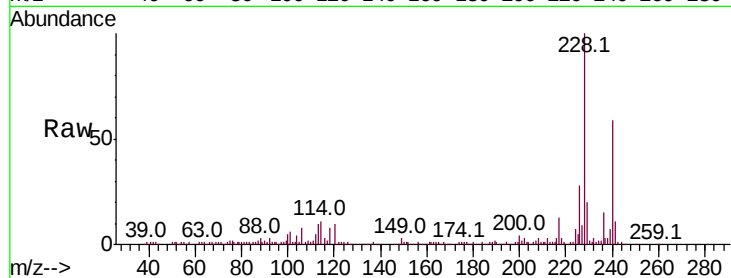
Tot Ion:228 Resp: 146937

Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.6

229 20.4 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

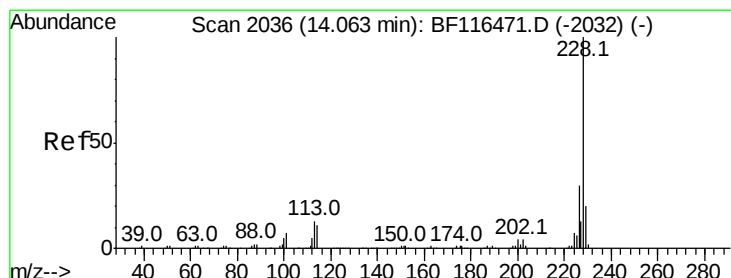
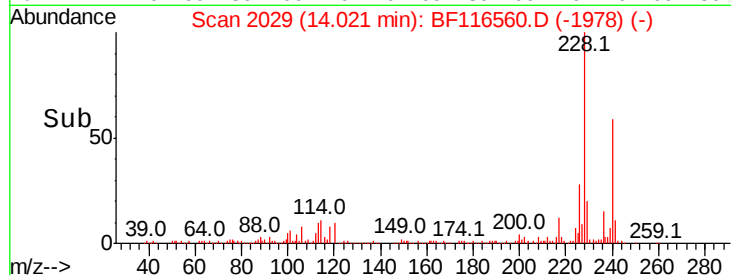
14.02

100000

50000

0

Time-->



#83

Chrysene

Concen: 9.002 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

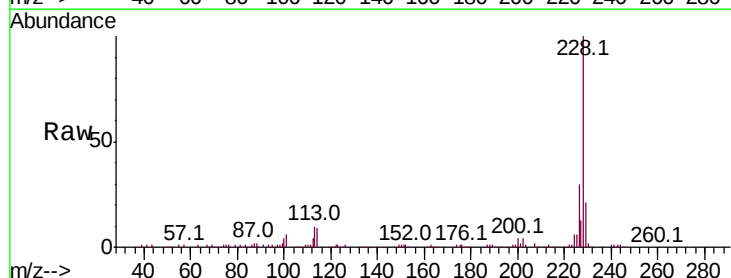
Tgt Ion:228 Resp: 131315

Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.2

229 21.3 15.8 23.6



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

14.06

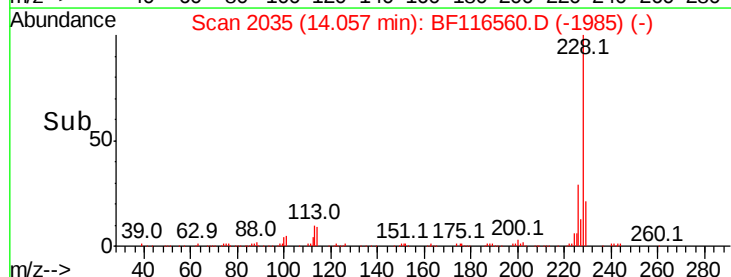
150000

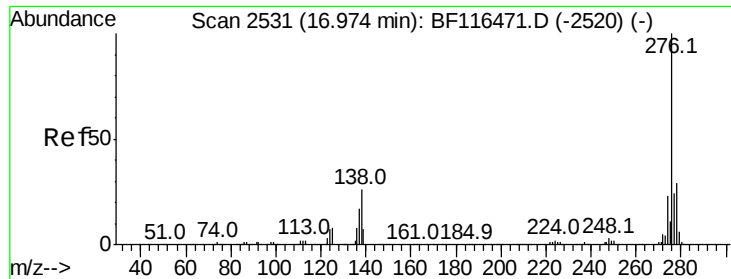
100000

50000

0

Time-->

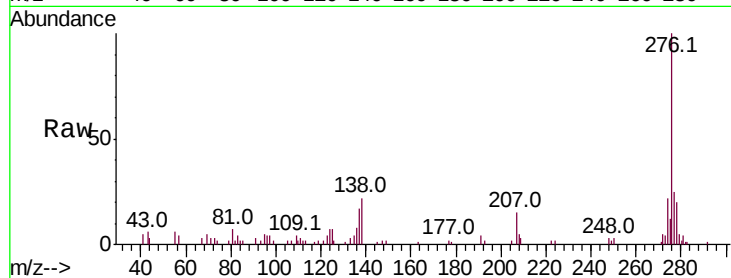




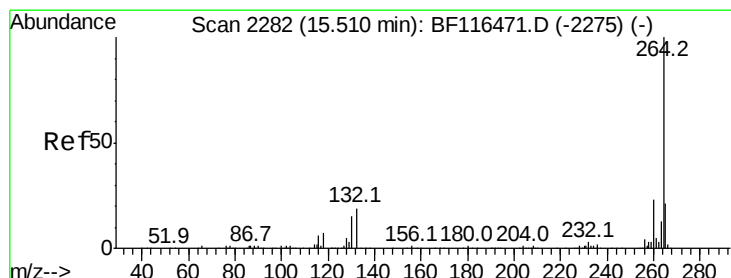
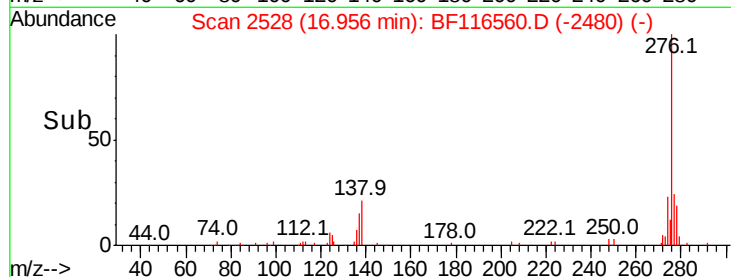
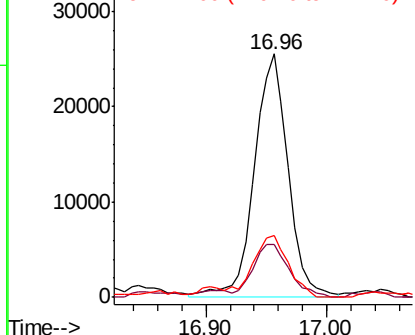
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.993 ng
 RT: 16.96 min Scan# 2528
 Delta R.T. -0.02 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	49893
Ion	Ratio	Lower	Upper
276	100		
138	23.5	22.9	34.3
277	26.7	19.9	29.9

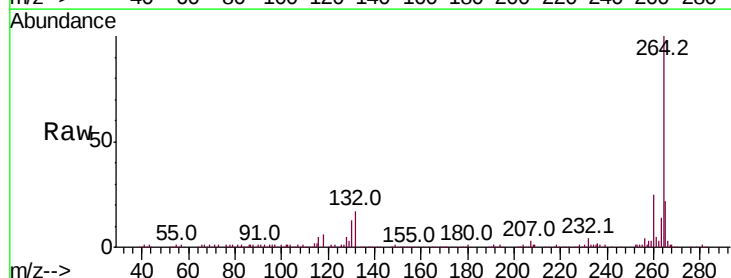


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

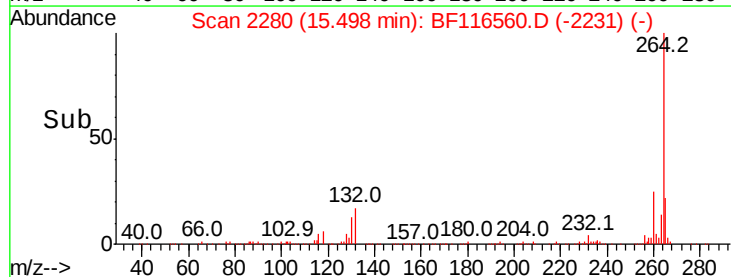
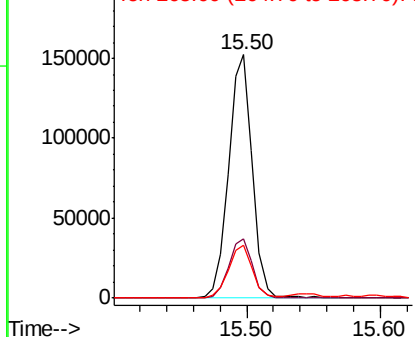


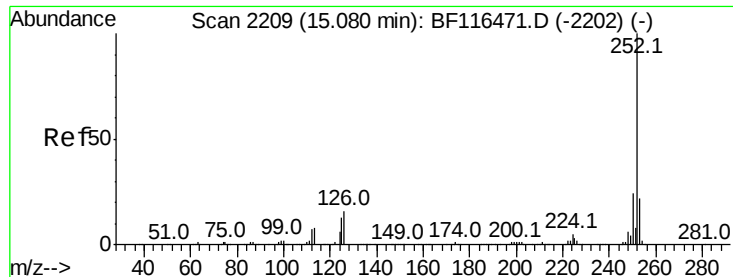
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF116560.D
 Acq: 26 Aug 2019 6:50

Tgt Ion:	264	Resp:	188987
Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.8	28.2
265	21.6	17.1	25.7



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

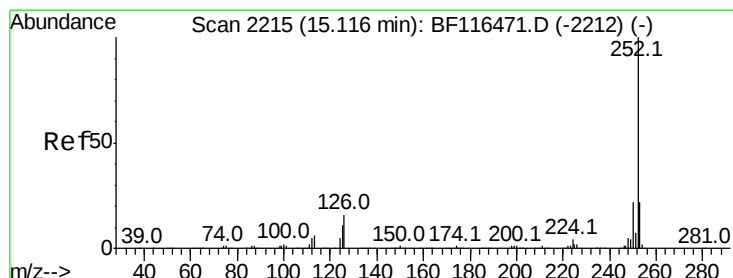
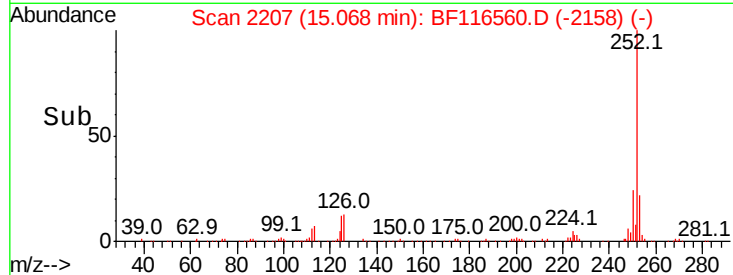
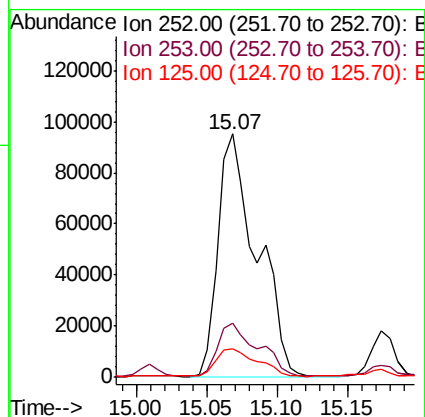
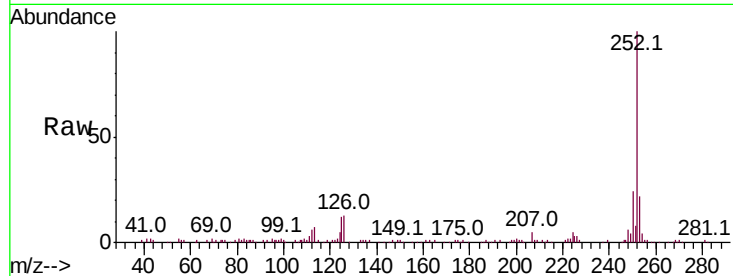




#88
Benzo(b)fluoranthene
Concen: 15.784 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

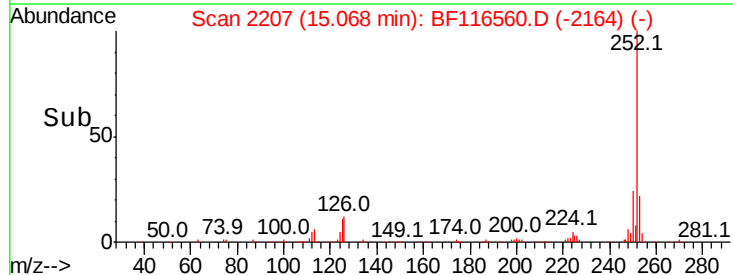
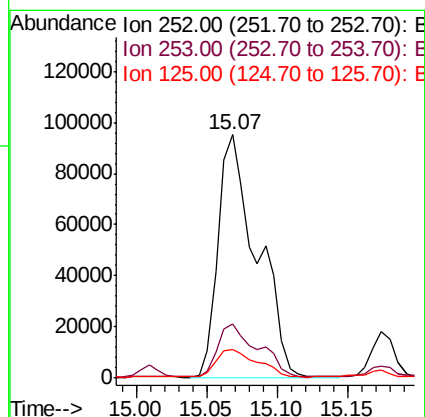
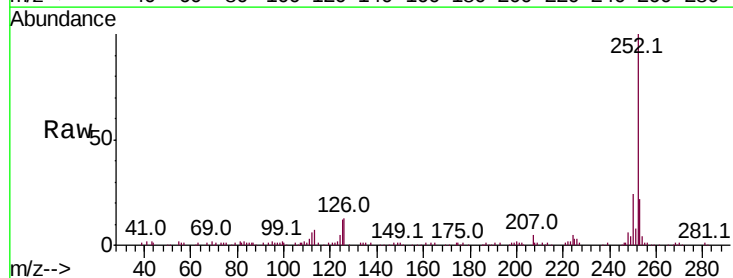
Instrument :
BNA_F
ClientSampleId :

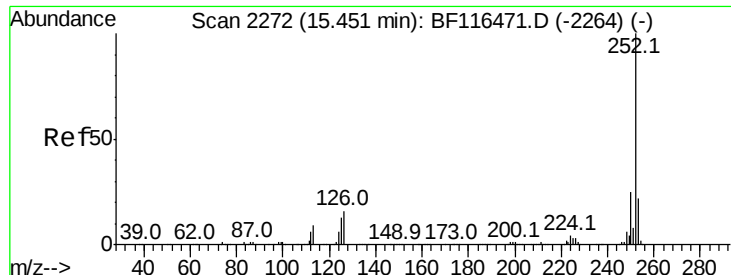
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.9	10.1	15.1



#89
Benzo(k)fluoranthene
Concen: 17.422 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.05 min
Lab File: BF116560.D
Acq: 26 Aug 2019 6:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2
125	11.9	9.1	13.7





#90

Benzo(a)pyrene

Concen: 9.031 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.02 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

Instrument :

BNA_F

ClientSampled :

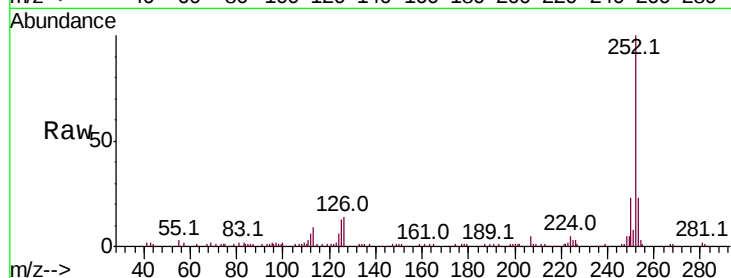
Tot Ion:252 Resp: 93186

Ion Ratio Lower Upper

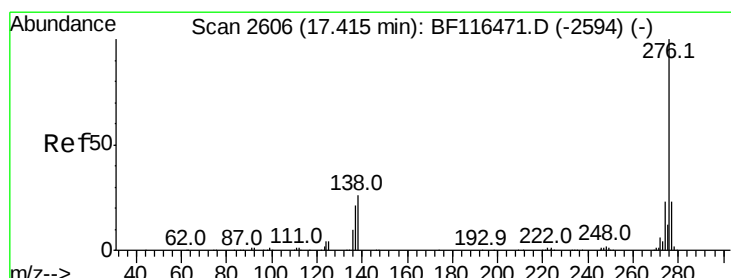
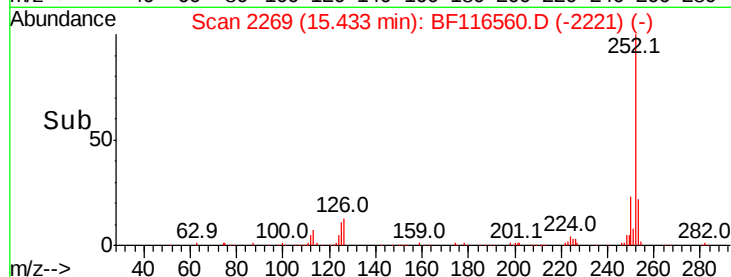
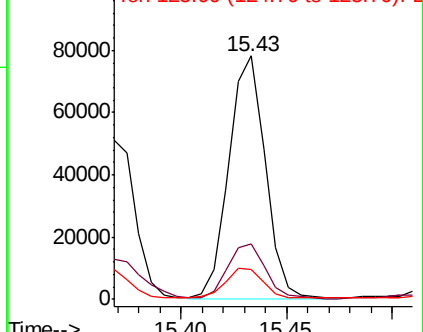
252 100

253 22.8 17.2 25.8

125 12.5 10.2 15.4



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



#92

Benzo(g,h,i)perylene

Concen: 5.564 ng

RT: 17.40 min Scan# 2603

Delta R.T. -0.02 min

Lab File: BF116560.D

Acq: 26 Aug 2019 6:50

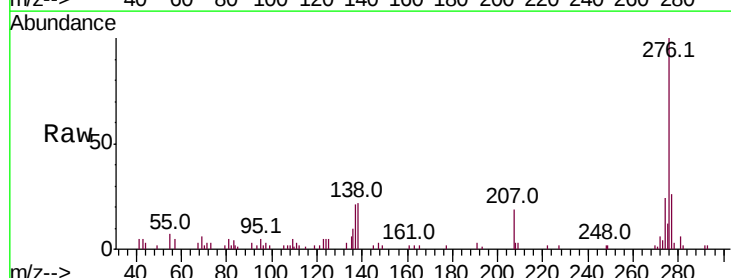
Tgt Ion:276 Resp: 44972

Ion Ratio Lower Upper

276 100

277 25.7 18.7 28.1

138 22.2 20.8 31.2



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

