

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
 Data File : BF115901.D
 Acq On : 1 Aug 2019 12:19
 Operator : HP/JU
 Sample : K4021-09
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 13:45:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	140703	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	562485	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	299952	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	502509	20.00	ng	0.00
76) Chrysene-d12	14.03	240	363558	20.00	ng	0.00
87) Perylene-d12	15.50	264	418851	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	621079	73.89	ng	0.00
7) Phenol-d6	6.49	99	820654	77.39	ng	0.00
23) Nitrobenzene-d5	7.41	82	497384	51.04	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	200048	68.79	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	831191	51.90	ng	0.00
79) Terphenyl-d14	12.96	244	859948	49.84	ng	0.00

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.41	70	65698	9.998	ng	# 79
25) Isophorone	7.41	82	497379	26.693	ng	# 66
50) Dimethylphthalate	9.60	163	139590	6.835	ng	98
51) 2,6-Dinitrotoluene	9.89	165	39537	8.908	ng	# 28
57) 2,4-Dinitrotoluene	9.89	165	39537	6.691	ng	# 24
67) 4-Bromophenyl-phenylether	10.68	248	12169	2.262	ng	# 1
71) Phenanthrene	11.40	178	265327	10.328	ng	99
75) Fluoranthene	12.60	202	304420	11.319	ng	98
78) Pyrene	12.82	202	276417	10.086	ng	98
81) Benzo(a)anthracene	14.02	228	139076	5.985	ng	98
83) Chrysene	14.05	228	133333	5.910	ng	98
86) Indeno(1,2,3-cd)pyrene	16.98	276	112298	5.927	ng	99
88) Benzo(b)fluoranthene	15.07	252	234841	9.697	ng	# 97
89) Benzo(k)fluoranthene	15.07	252	234841	9.956	ng	99
90) Benzo(a)pyrene	15.44	252	128530	5.937	ng	99
91) Dibenzo(a,h)anthracene	16.99	278	62666	3.344	ng	# 91
92) Benzo(a,h,i)perylene	17.42	276	110092	5.982	ng	99

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

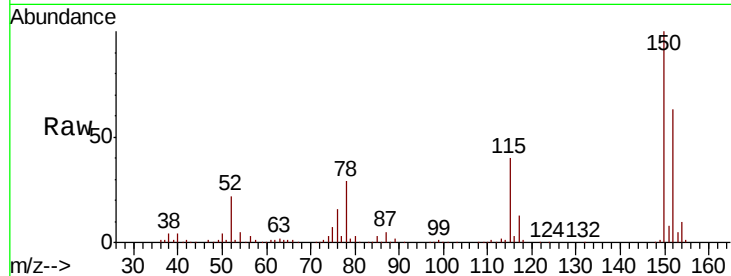


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	127.4	191.0
115	63.2	51.8	77.8

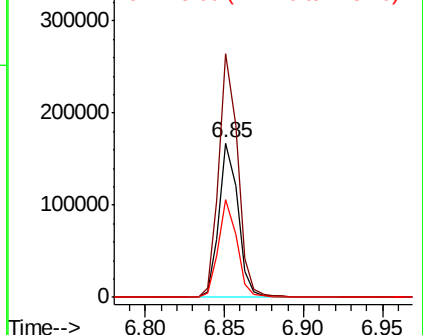
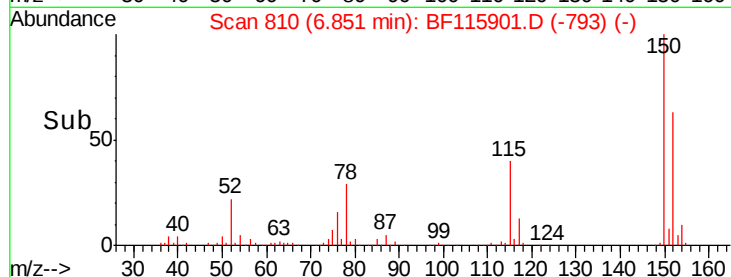


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

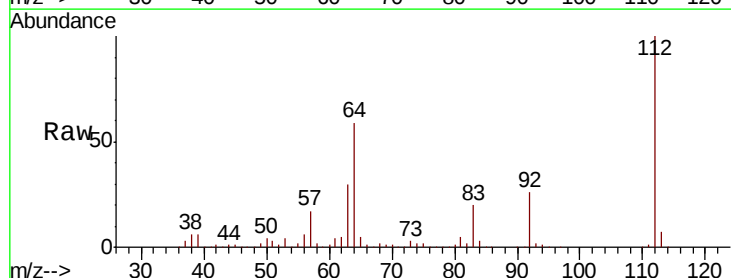
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 73.895 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	46.8	70.2
63	30.1	24.2	36.2

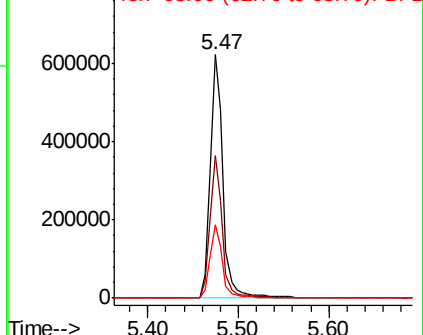
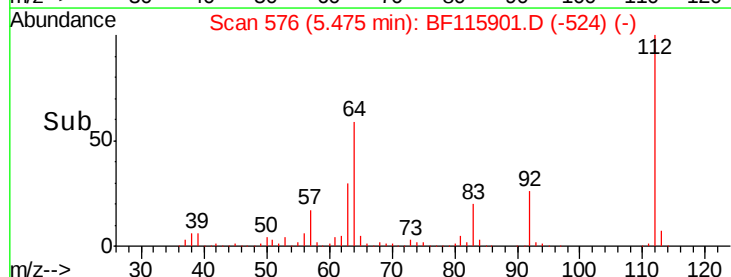


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 77.389 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Instrument :

BNA_F

ClientSampled :

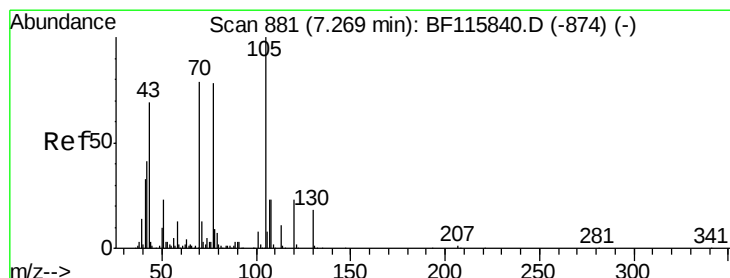
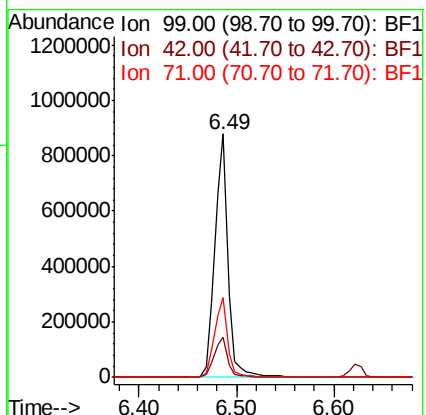
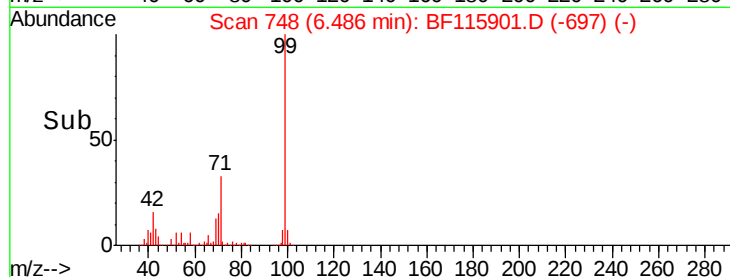
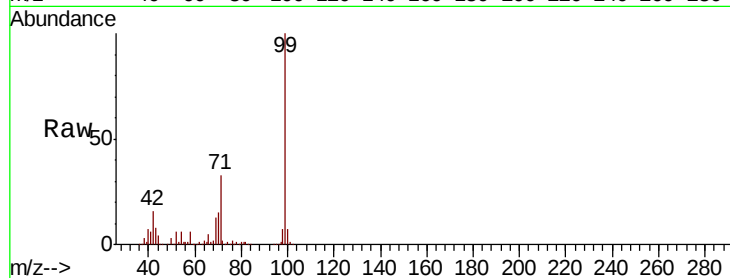
Tot Ion: 99 Resp: 820654

Ion Ratio Lower Upper

99 100

42 16.5 13.8 20.6

71 32.9 27.1 40.7



#19

n-Nitroso-di-n-propylamine

Concen: 9.998 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Tgt Ion: 70 Resp: 65698

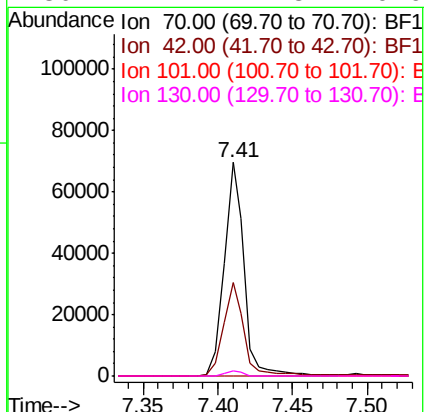
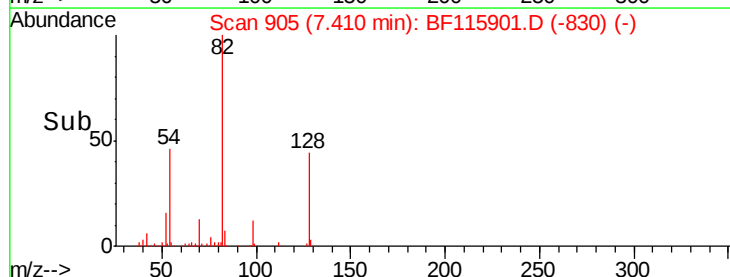
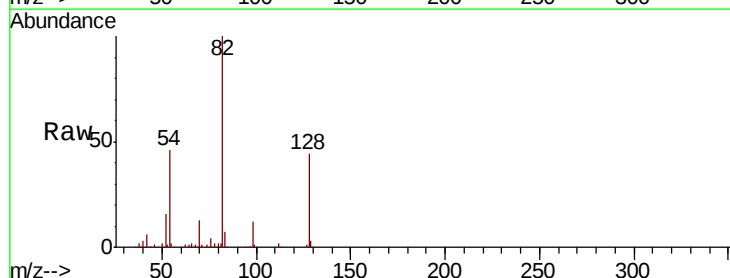
Ion Ratio Lower Upper

70 100

42 44.0 41.8 62.8

101 0.0 7.7 11.5#

130 2.1 17.8 26.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 562485

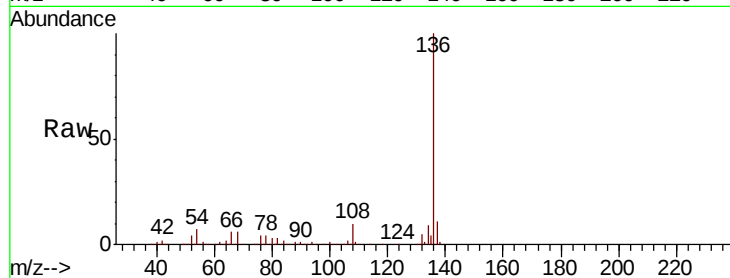
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 7.0 6.1 9.1

68 6.1 5.4 8.2

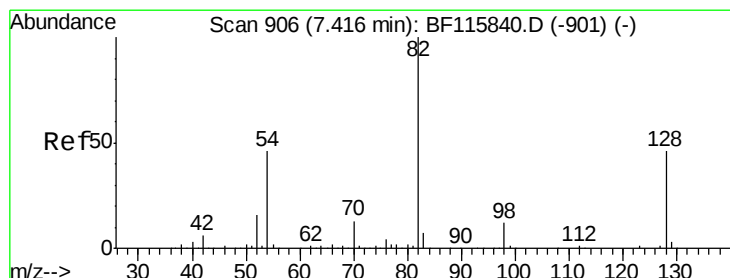
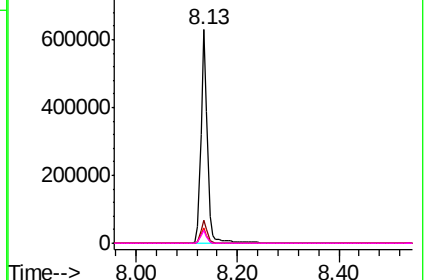
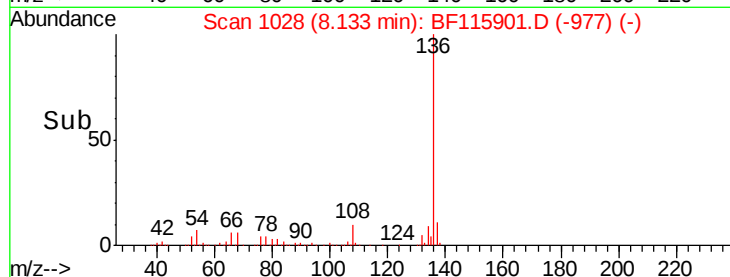


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 51.042 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.01 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

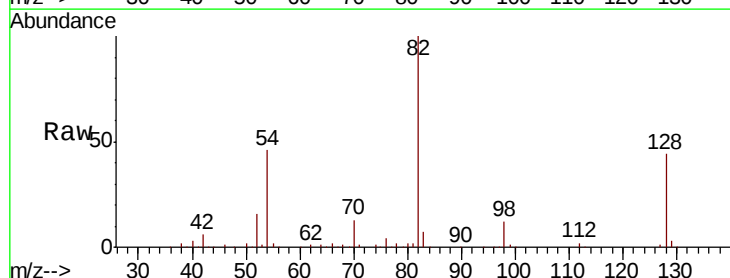
Tgt Ion: 82 Resp: 497384

Ion Ratio Lower Upper

82 100

128 43.8 36.6 55.0

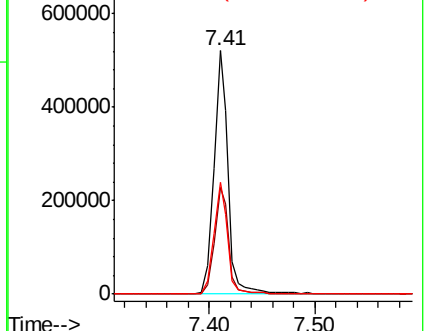
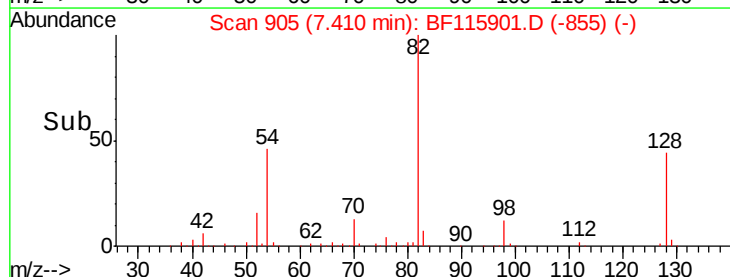
54 46.0 36.6 55.0



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 26.693 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Instrument :

BNA_F

ClientSampleId :

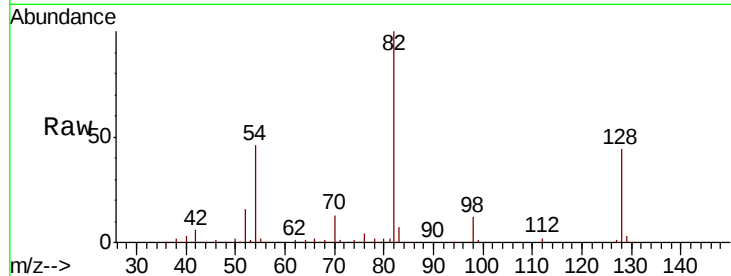
Tot Ion: 82 Resp: 497379

Ion Ratio Lower Upper

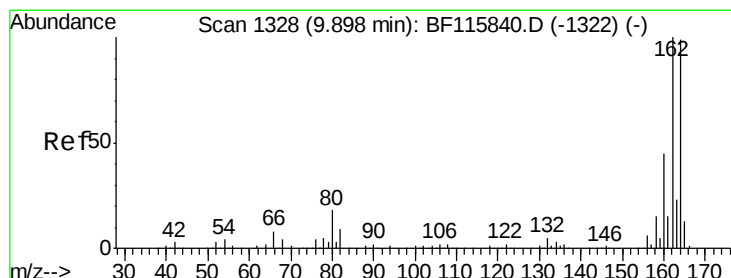
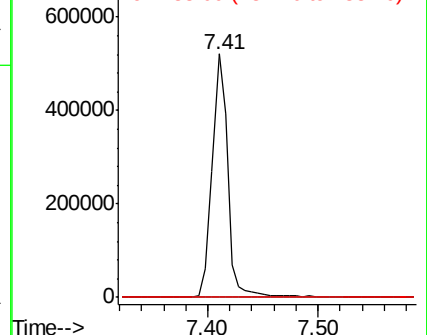
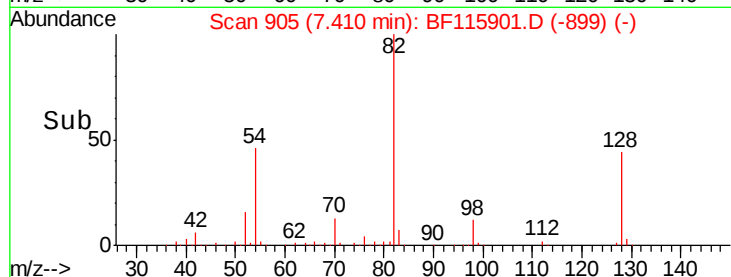
82 100

95 0.0 5.5 8.3#

138 0.0 13.9 20.9#



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: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

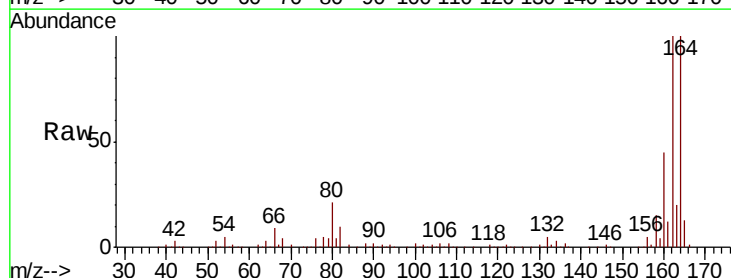
Tgt Ion: 164 Resp: 299952

Ion Ratio Lower Upper

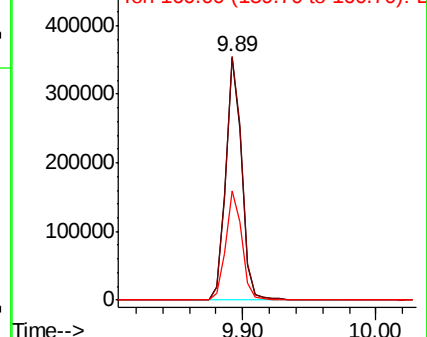
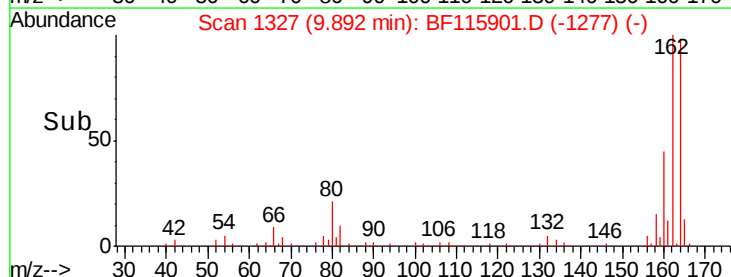
164 100

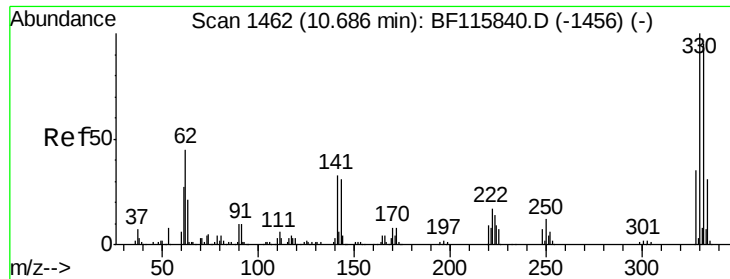
162 100.3 80.8 121.2

160 45.2 36.2 54.4



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: 68.790 ng

RT: 10.69 min Scan# 1462

Delta R.T. -0.00 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Instrument :

BNA_F

ClientSampleId :

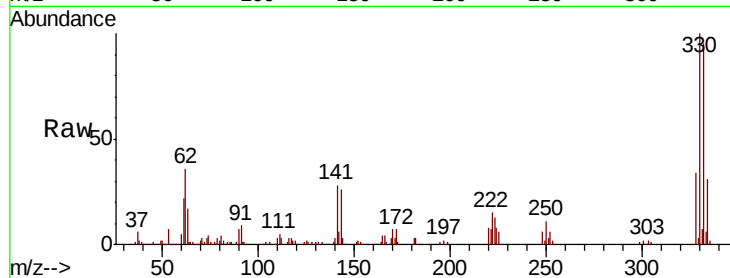
Tot Ion:330 Resp: 200048

Ion Ratio Lower Upper

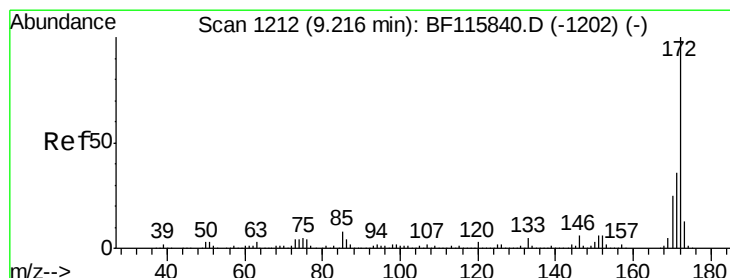
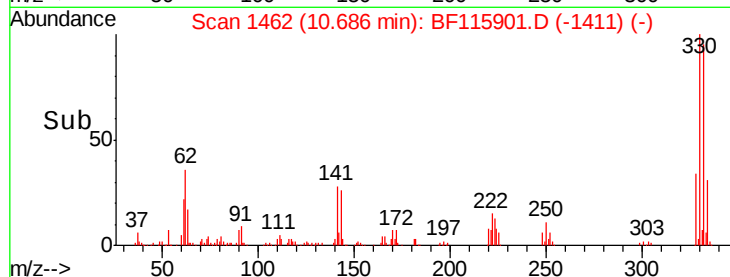
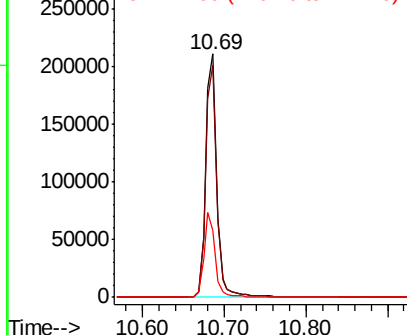
330 100

332 95.5 77.7 116.5

141 35.0 28.1 42.1



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: 51.904 ng

RT: 9.21 min Scan# 1211

Delta R.T. -0.01 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

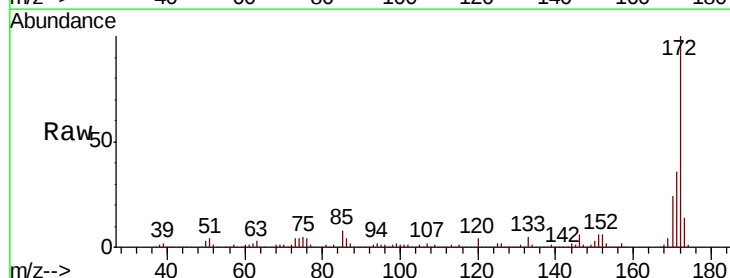
Tgt Ion:172 Resp: 831191

Ion Ratio Lower Upper

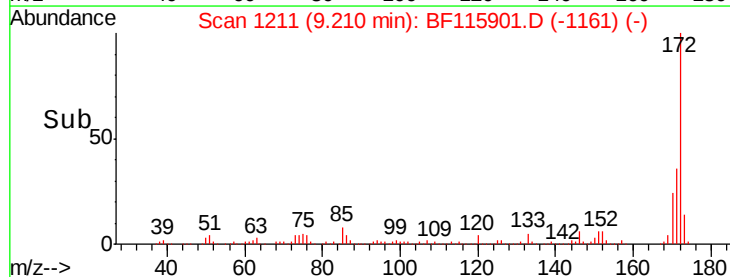
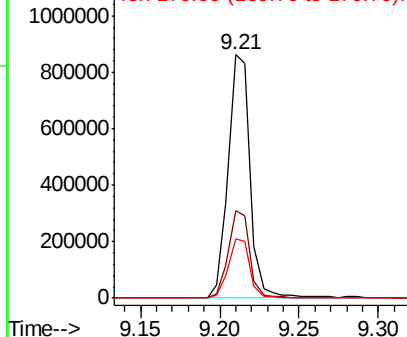
172 100

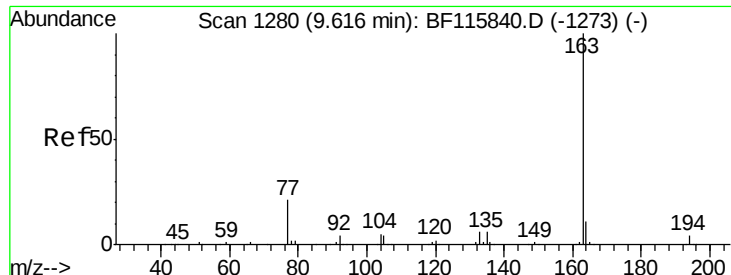
171 36.1 29.1 43.7

170 24.3 20.1 30.1



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

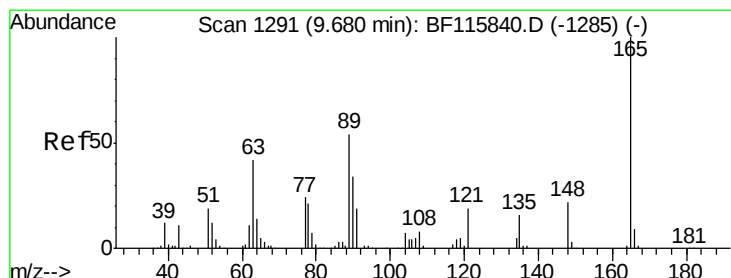
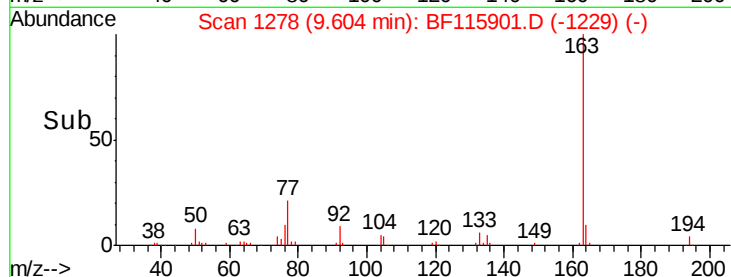
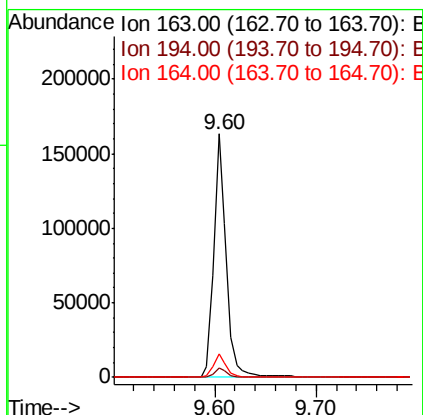
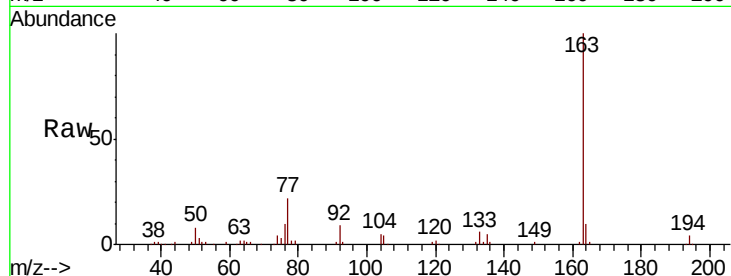




#50
Dimethylphthalate
Concen: 6.835 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

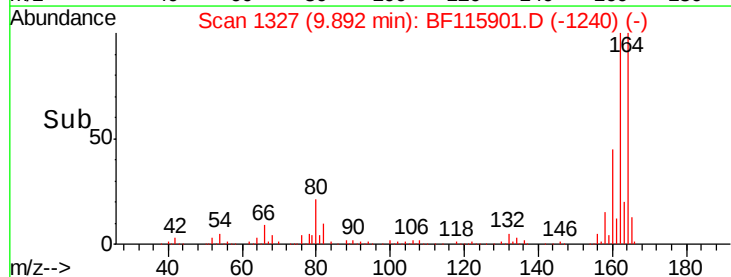
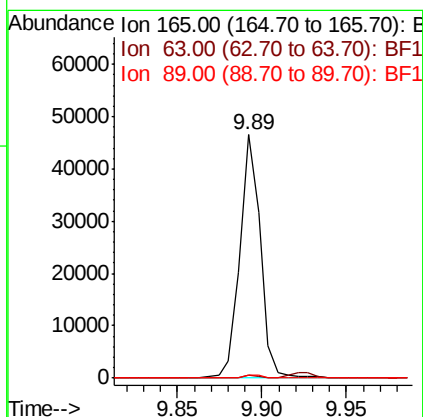
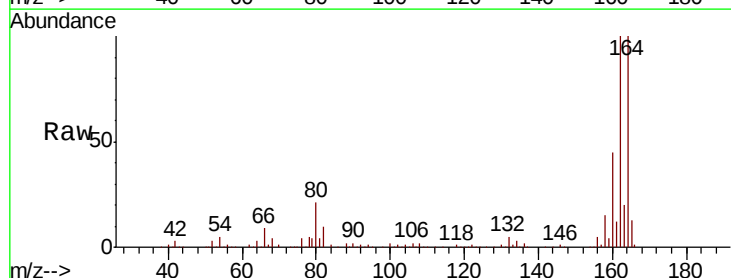
Instrument :
BNA_F
ClientSampleId :

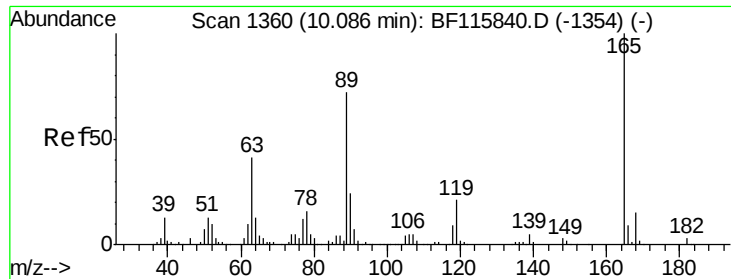
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	9.7	8.4	12.6



#51
2,6-Dinitrotoluene
Concen: 8.908 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.21 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	39.4	59.2#
89	1.3	43.0	64.6#

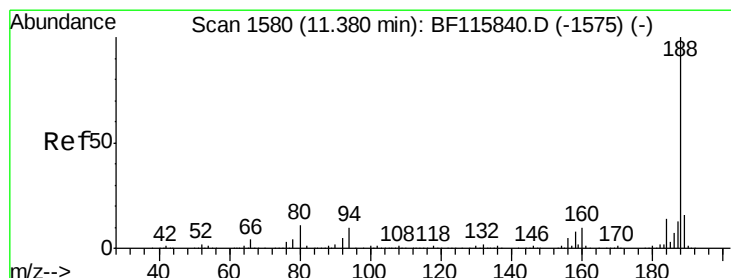
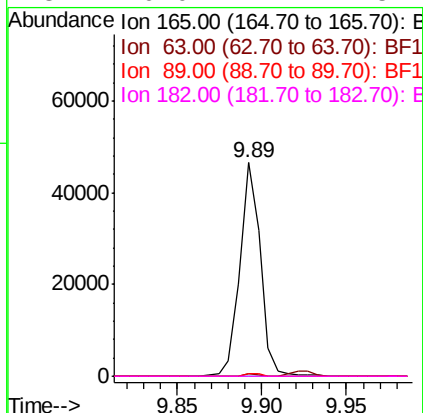
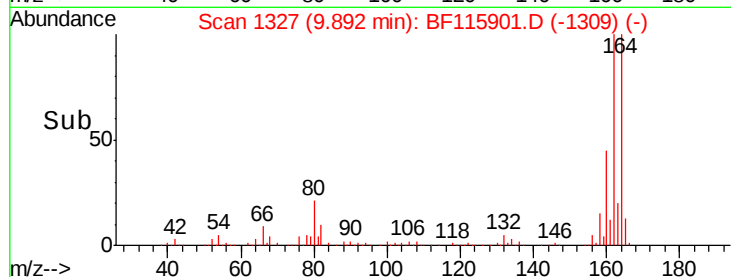
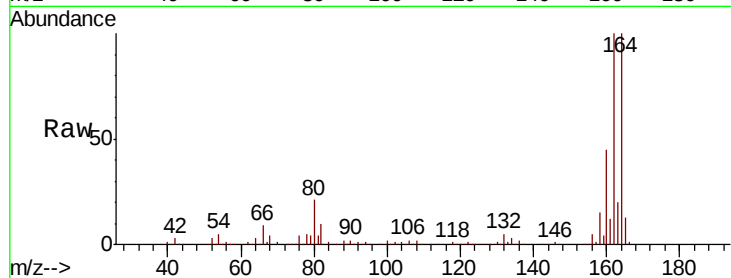




#57
 2,4-Dinitrotoluene
 Concen: 6.691 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.19 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

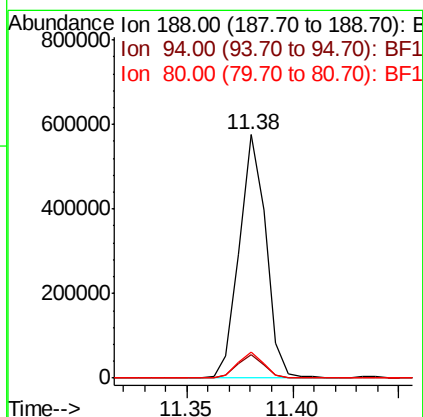
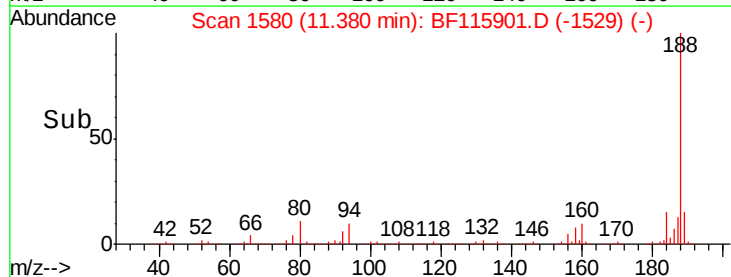
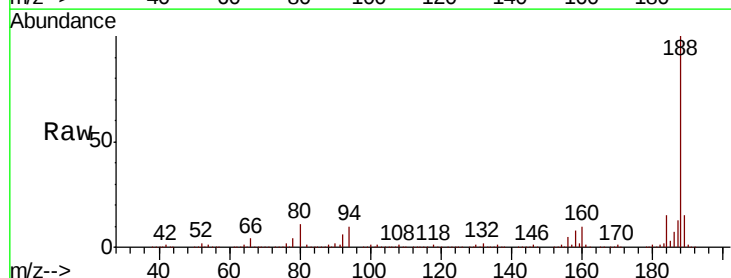
Instrument :
 BNA_F
 ClientSampleId :

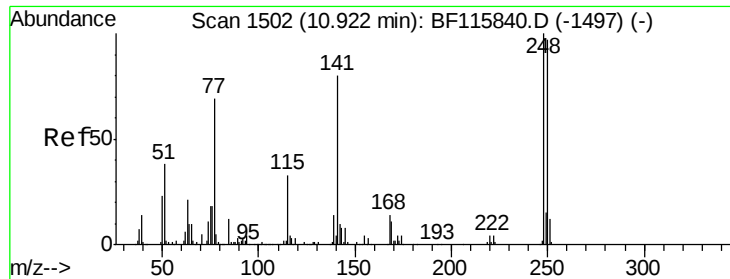
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	33.2	49.8#
89	1.3	57.3	85.9#
182	0.0	2.1	3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.0	12.0
80	10.8	8.6	12.8

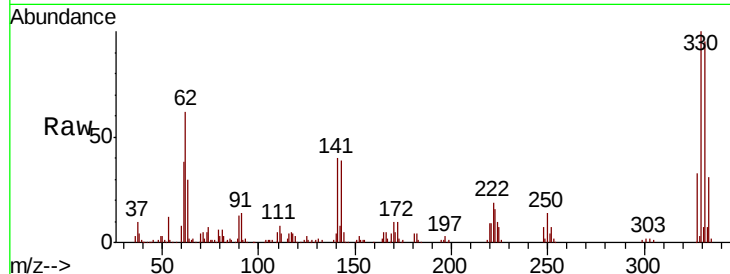




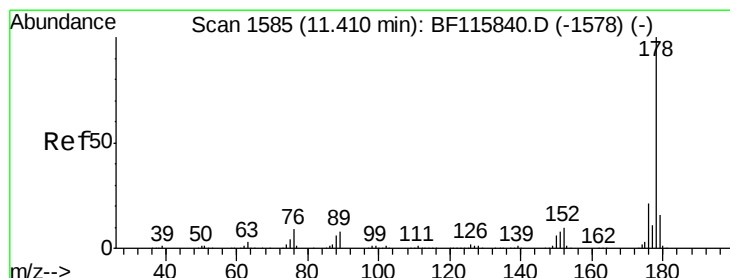
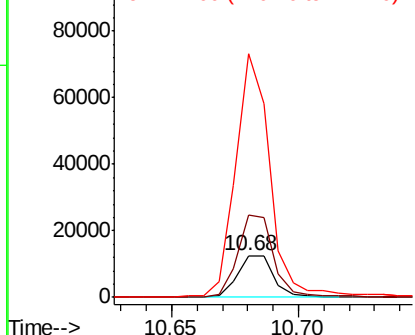
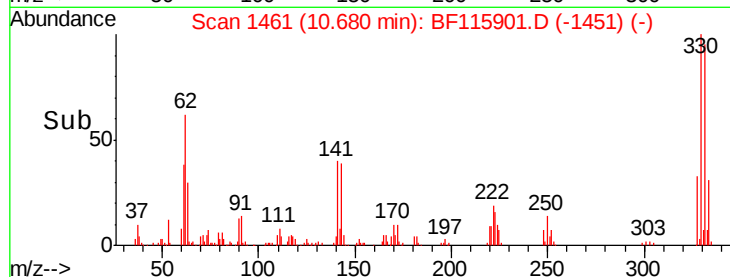
#67
 4-Bromophenyl-phenylether
 Concen: 2.262 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.24 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 12169
 Ion Ratio Lower Upper
 248 100
 250 198.4 77.8 116.6#
 141 586.7 64.3 96.5#

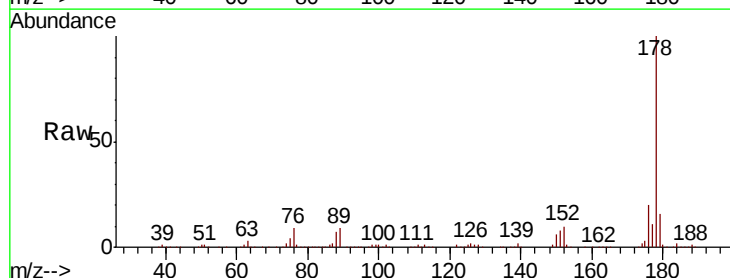


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

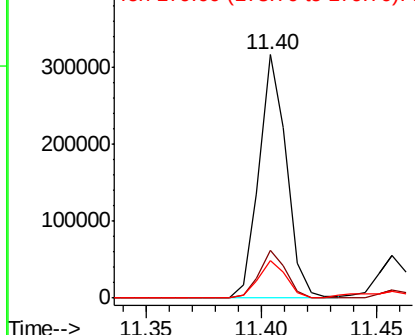
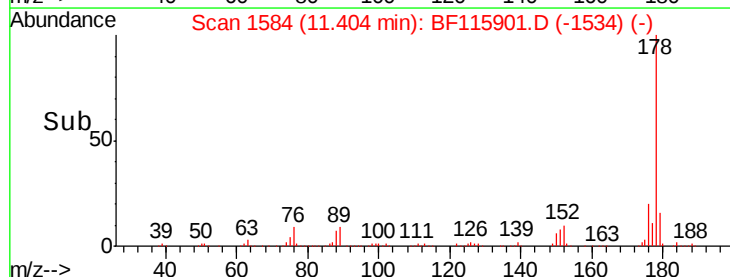


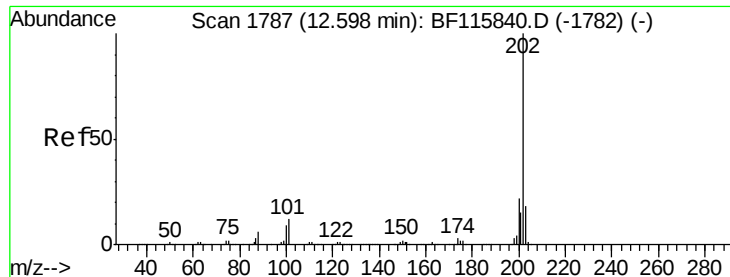
#71
 Phenanthrene
 Concen: 10.328 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Tgt Ion:178 Resp: 265327
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.5 24.7
 179 15.6 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 11.319 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.00 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

Instrument :

BNA_F

ClientSampleId :

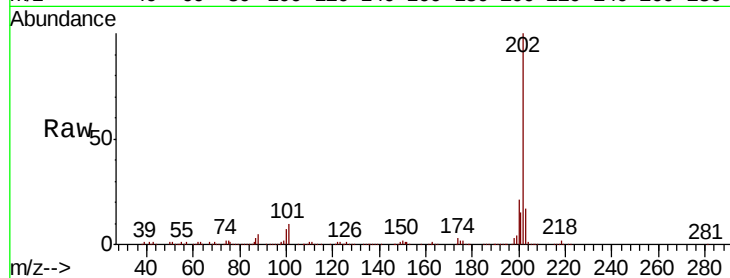
Tot Ion:202 Resp: 304420

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.5

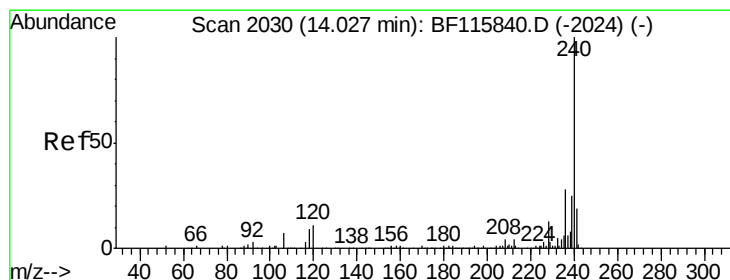
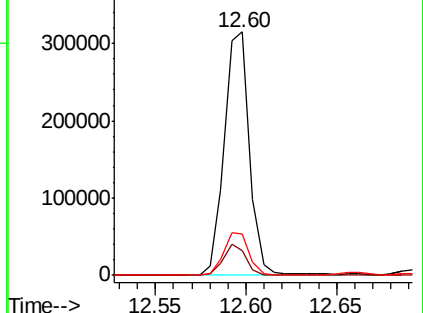
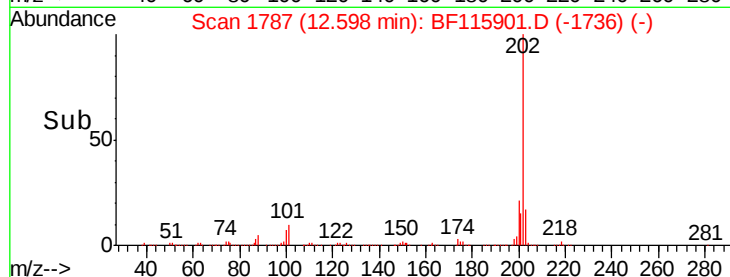
203 17.1 0.0 37.9



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. -0.00 min

Lab File: BF115901.D

Acq: 1 Aug 2019 12:19

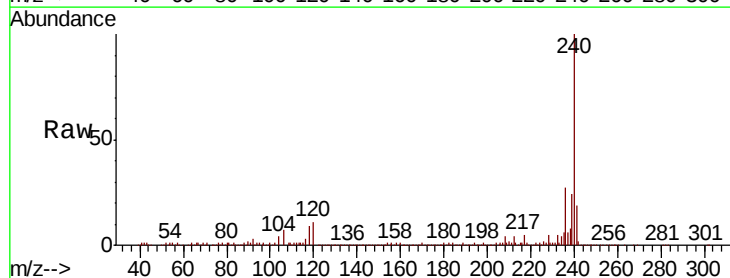
Tgt Ion:240 Resp: 363558

Ion Ratio Lower Upper

240 100

120 10.6 8.5 12.7

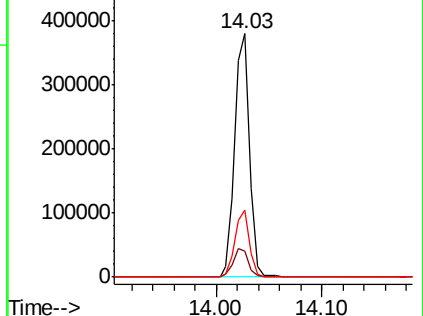
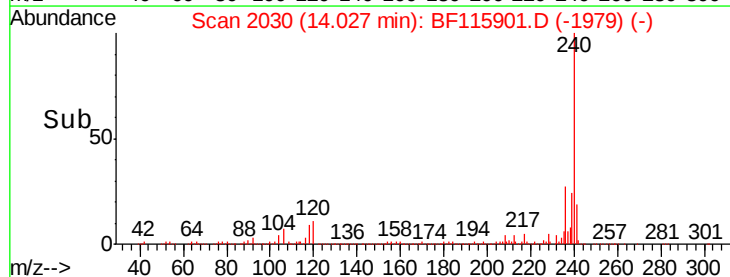
236 27.4 22.2 33.2

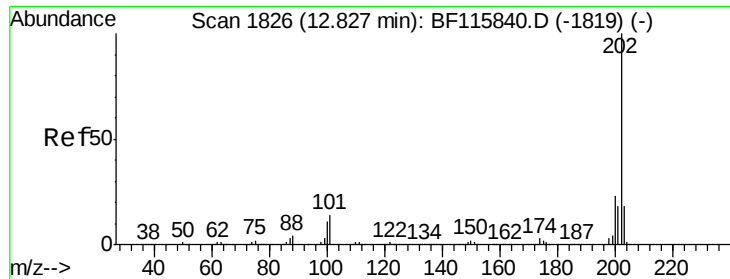


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

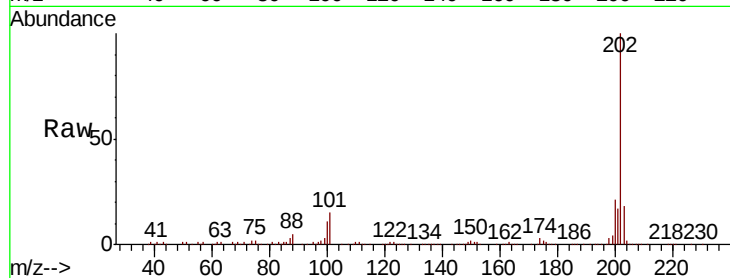




#78
Pvrene
Concen: 10.086 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	18.2	27.2
203	17.9	14.3	21.5

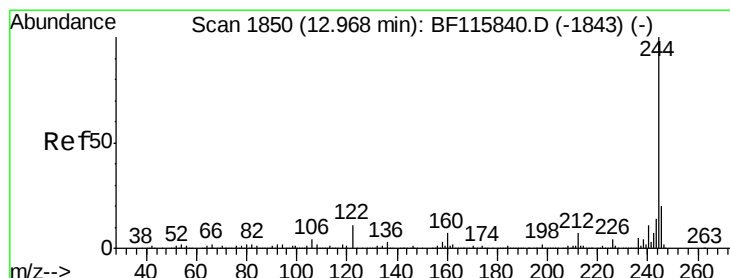
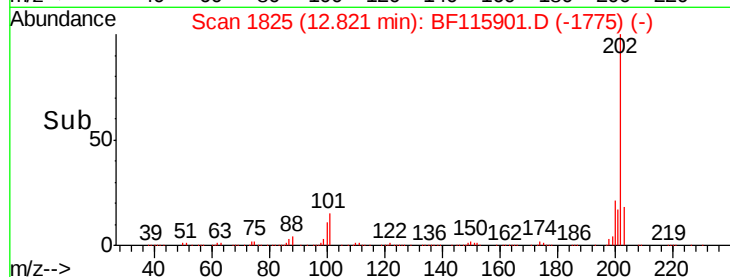
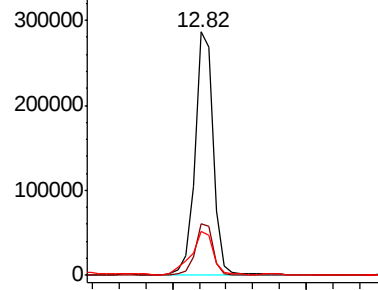


Abundance

Ion 202.00 (201.70 to 202.70): E

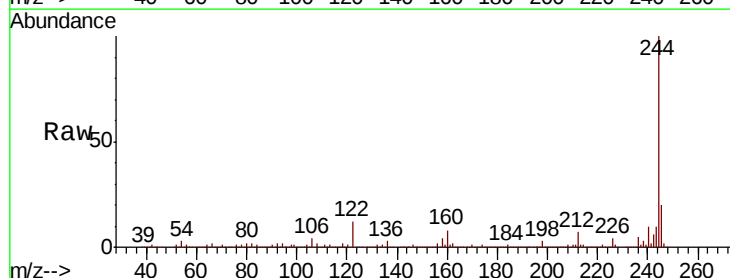
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 49.842 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	12.2	8.6	13.0

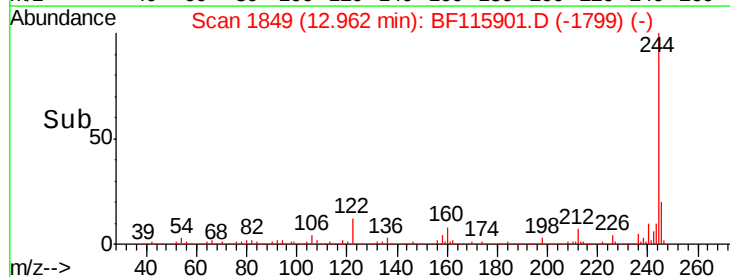
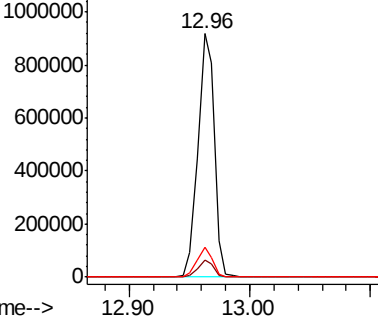


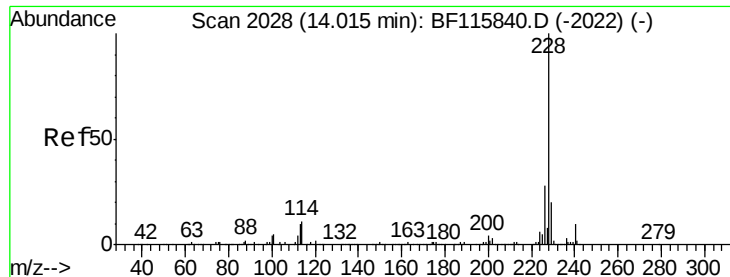
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

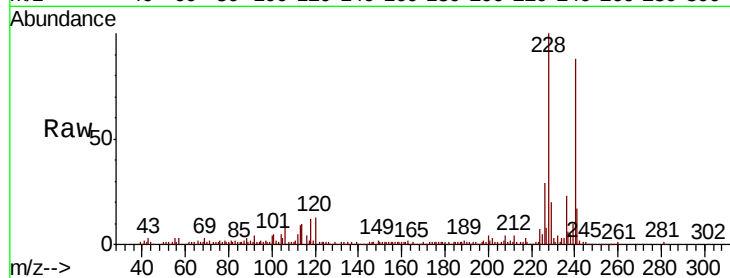




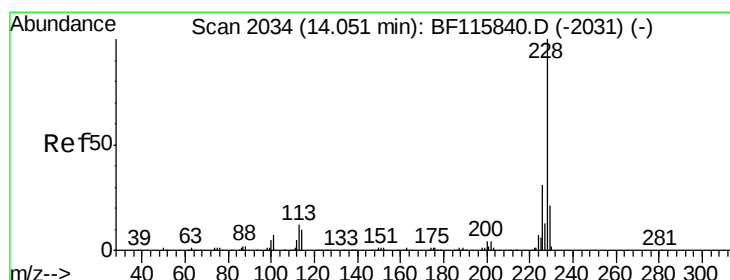
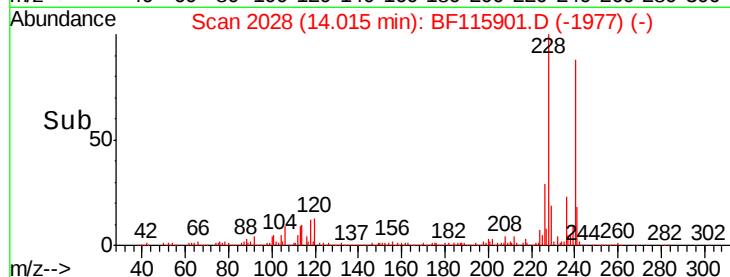
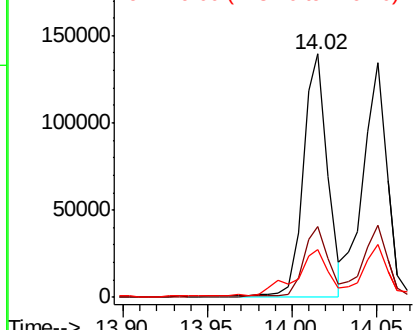
#81
Benzo(a)anthracene
Concen: 5.985 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.00 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 139076
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 19.7 16.1 24.1

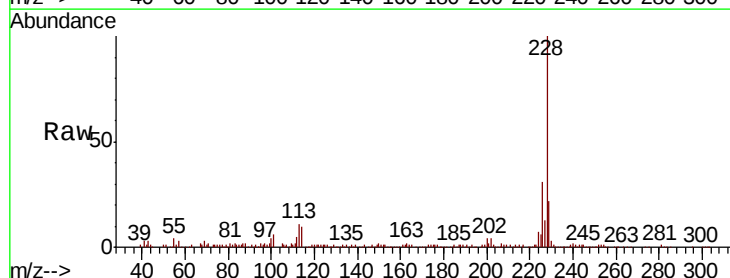


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

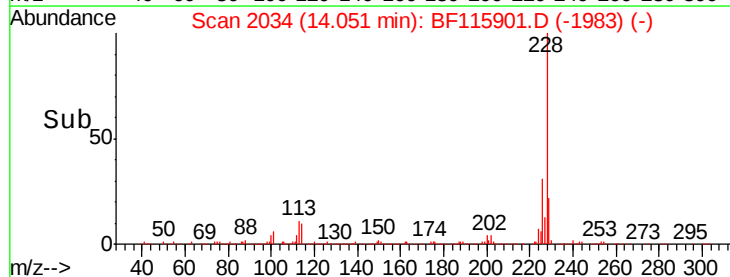
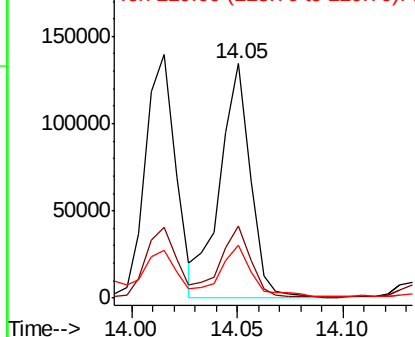


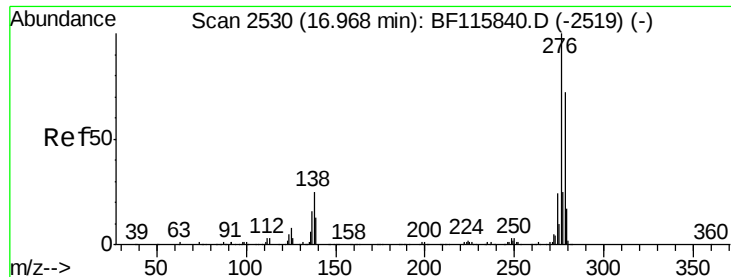
#83
Chrysene
Concen: 5.910 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.00 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion:228 Resp: 133333
Ion Ratio Lower Upper
228 100
226 31.0 24.8 37.2
229 22.3 16.4 24.6



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

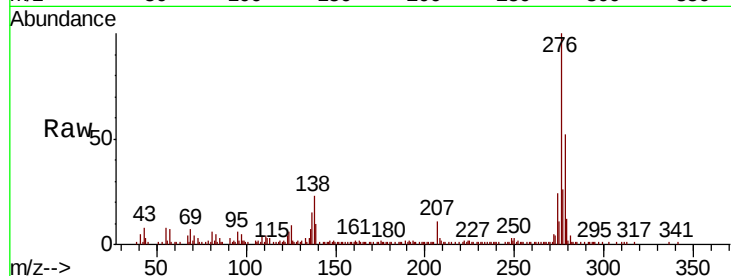




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.927 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. 0.01 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.0	19.6	29.4
277	24.8	20.1	30.1

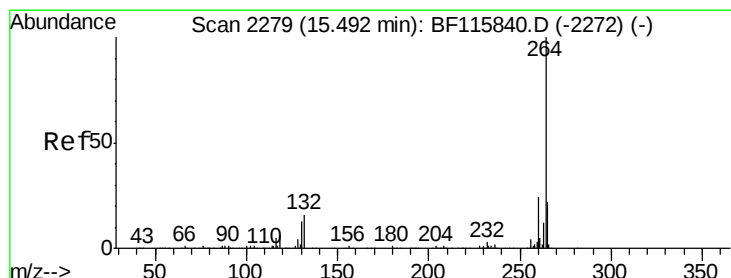
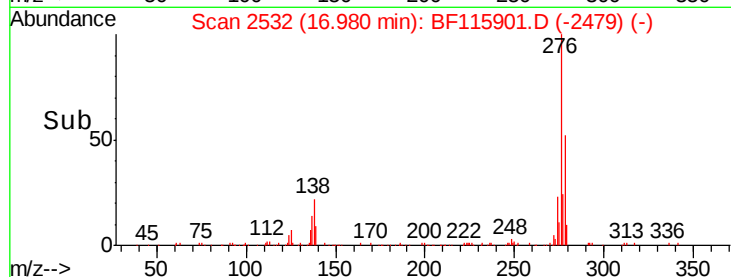
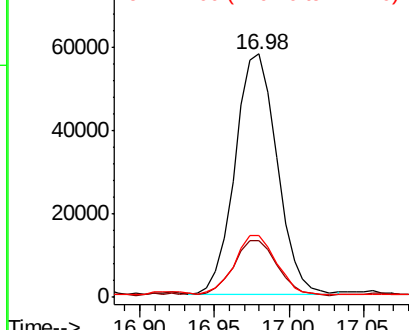


Abundance

Ion 276.00 (275.70 to 276.70): E

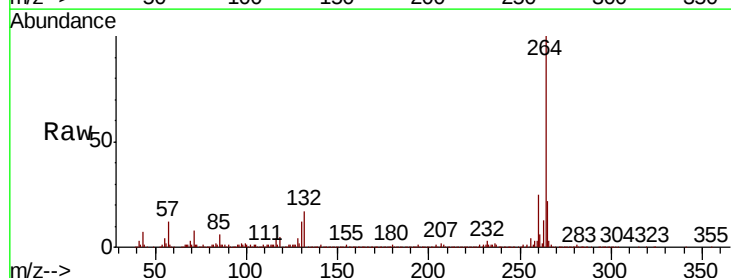
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2281
 Delta R.T. 0.01 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.4	29.2
265	22.1	17.5	26.3

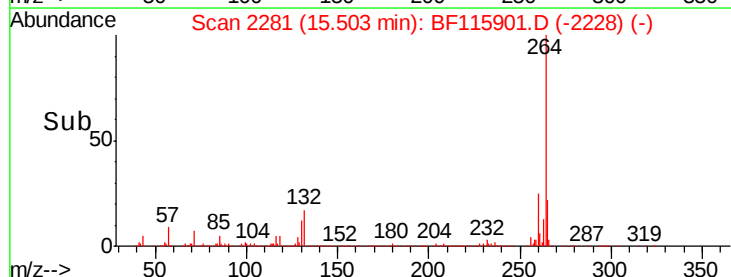
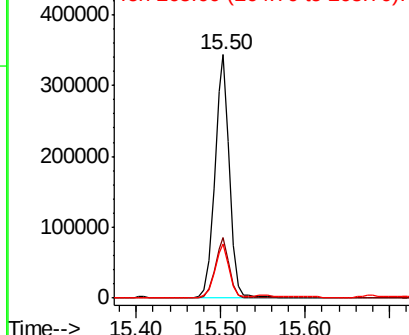


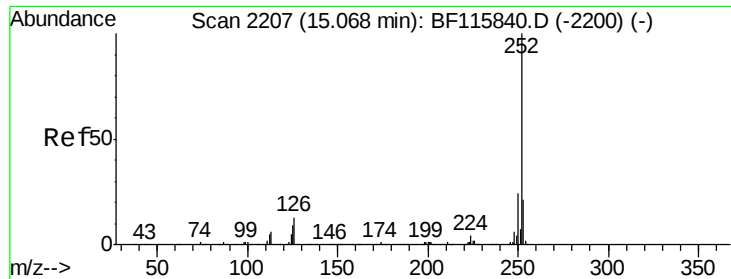
Abundance

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

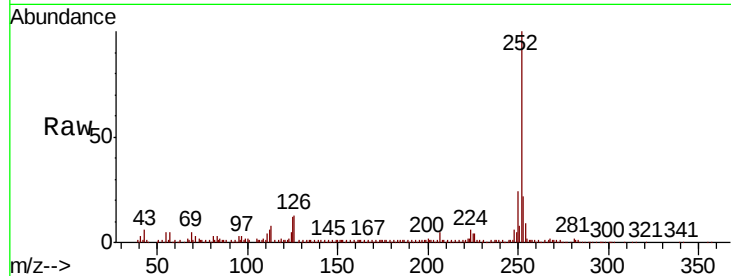




#88
Benzo(b)fluoranthene
Concen: 9.697 ng
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	11.5	7.4	11.0

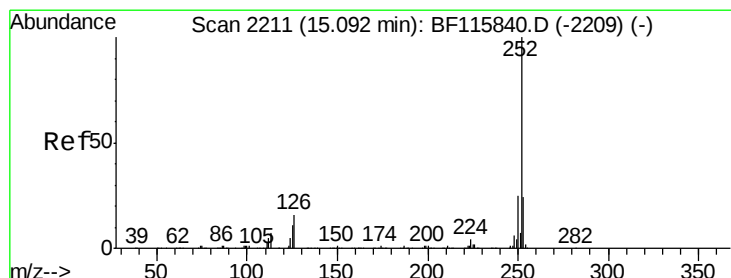
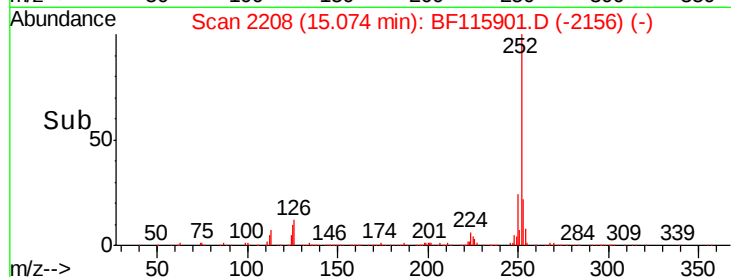
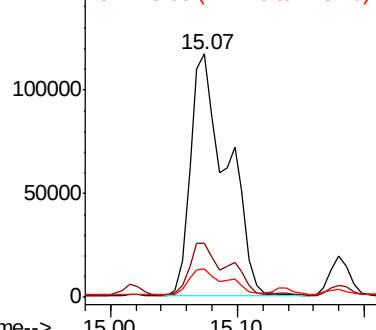


Abundance

Ion 252.00 (251.70 to 252.70): E

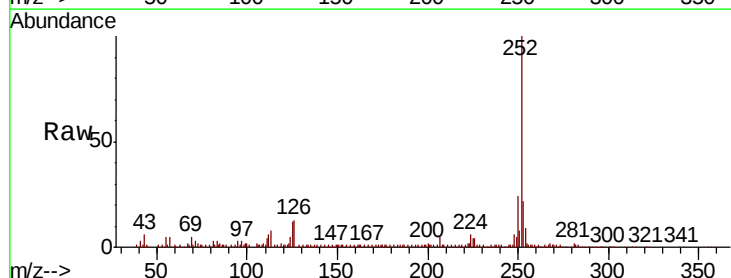
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 9.956 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.02 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	11.5	8.9	13.3

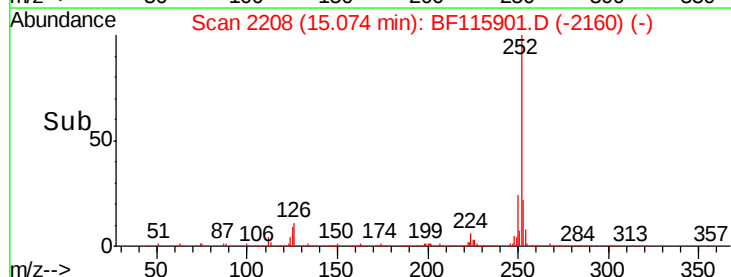
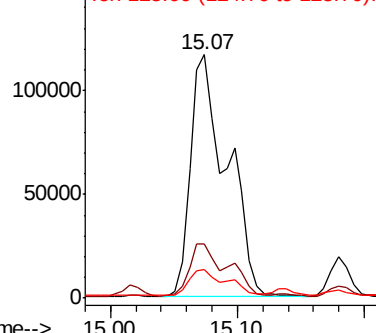


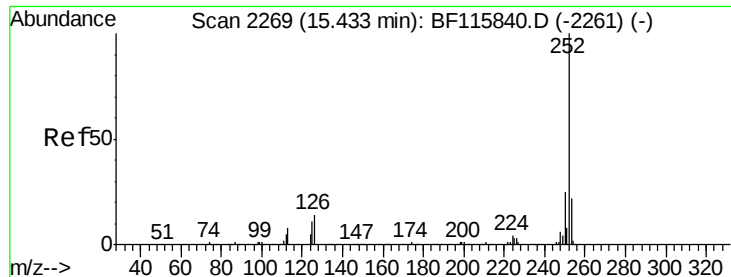
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

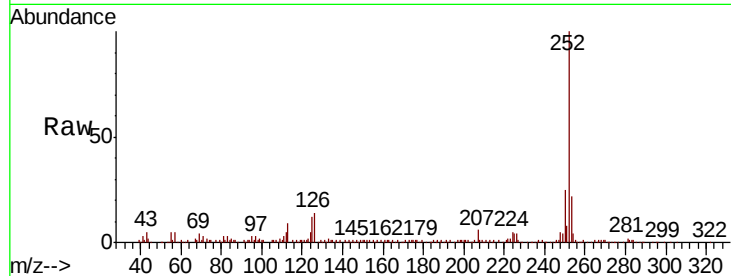




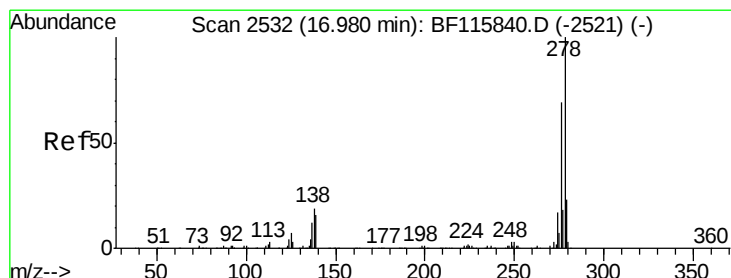
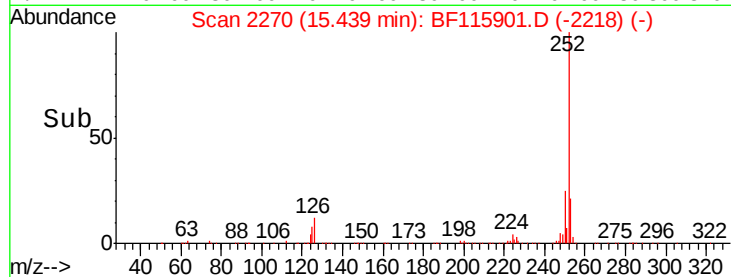
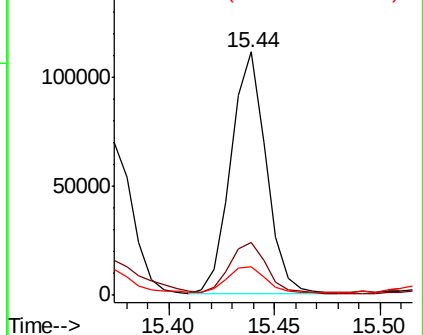
#90
Benzo(a)pyrene
Concen: 5.937 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	11.8	8.8	13.2

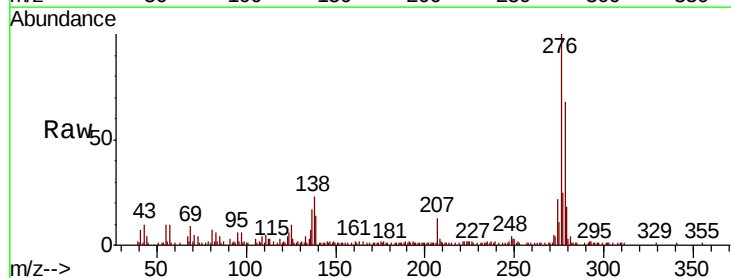


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

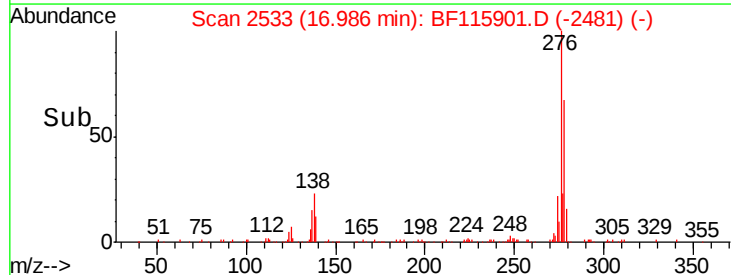
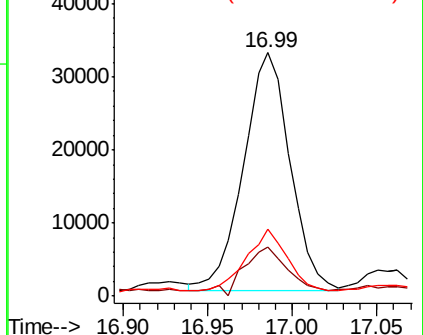


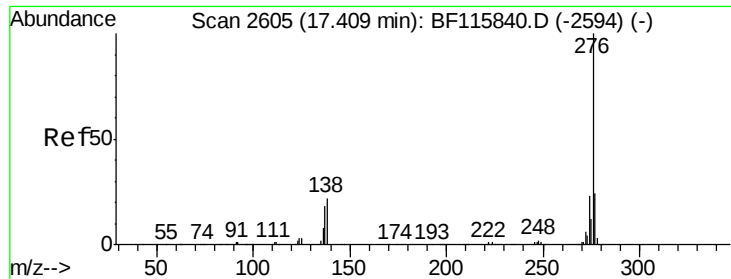
#91
Dibenzo(a,h)anthracene
Concen: 3.344 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF115901.D
Acq: 1 Aug 2019 12:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.3	12.6	19.0#
279	27.3	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

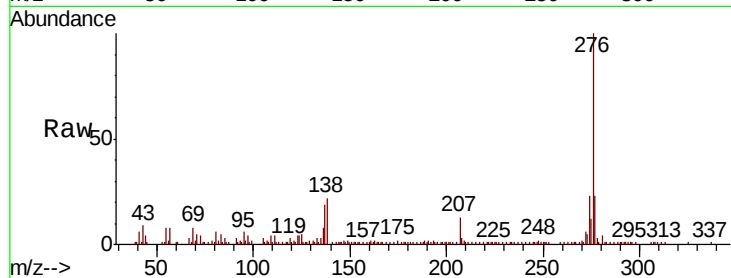




#92
 Benzo(a,h,i)perylene
 Concen: 5.982 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.01 min
 Lab File: BF115901.D
 Acq: 1 Aug 2019 12:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.5	29.3
138	22.4	17.8	26.8



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

