

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112818\
 Data File : BF111060.D
 Acq On : 28 Nov 2018 22:01
 Operator : JU/SJ
 Sample : J6051-02RE 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-02RE

Manual Integrations
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Quant Time: Nov 29 03:37:44 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 27 15:32:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	10826	20.00	ng	0.00
21) Naphthalene-d8	8.23	136	45955	20.00	ng	0.00
39) Acenaphthene-d10	9.97	164	18288	20.00	ng	0.00
64) Phenanthrene-d10	11.47	188	28178	20.00	ng	0.00
76) Chrysene-d12	14.13	240	25738	20.00	ng	0.00
87) Perylene-d12	15.66	264	20522	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	32593	49.93	ng	0.03
7) Phenol-d6	6.59	99	44728	52.57	ng	0.02
23) Nitrobenzene-d5	7.53	82	29517	36.76	ng	0.02
42) 2,4,6-Tribromophenol	10.78	330	7328	40.35	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	49640	39.32	ng	0.00
79) Terphenyl-d14	13.05	244	32383	24.49	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.25	128	17546	8.145	ng	99
49) Acenaphthylene	9.85	152	27956	16.082	ng	94
50) Dimethylphthalate	9.69	163	7181	5.354	ng	# 97
52) Acenaphthene	10.01	154	2786	2.500	ng	97
55) Dibenzofuran	10.20	168	5152	3.169	ng	100
58) Fluorene	10.53	166	11267	8.907	ng	94
71) Phenanthrene	11.50	178	110066	73.752	ng	100
72) Anthracene	11.56	178	36796	24.210	ng	99
73) Carbazole	11.72	167	4425	3.000	ng	95
75) Fluoranthene	12.69	202	175694	114.544	ng	98
78) Pyrene	12.92	202	165265	87.915	ng	98
81) Benzo(a)anthracene	14.12	228	95318	62.728	ng	99
83) Chrysene	14.15	228	81037	54.174	ng	98
86) Indeno(1,2,3-cd)pyrene	17.26	276	33658	31.347	ng	97
88) Benzo(b)fluoranthene	15.20	252	97051m	80.501	ng	
89) Benzo(k)fluoranthene	15.23	252	25683m	20.697	ng	
90) Benzo(a)pyrene	15.60	252	65764	58.603	ng	97
91) Dibenzo(a,h)anthracene	17.25	278	7912m	8.545	ng	
92) Benzo(a,h,i)perylene	17.74	276	30478	34.139	ng	93

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

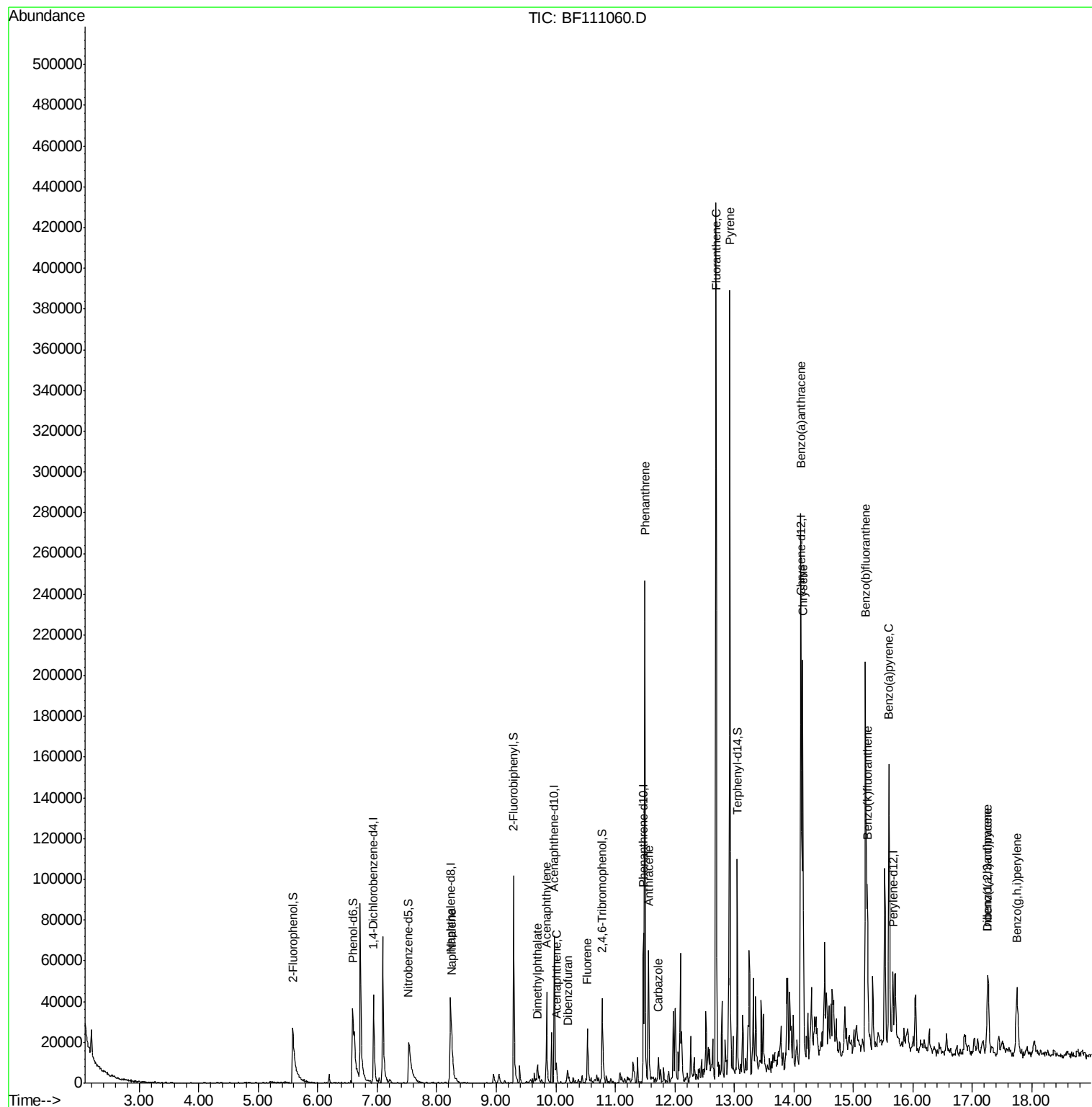
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112818\
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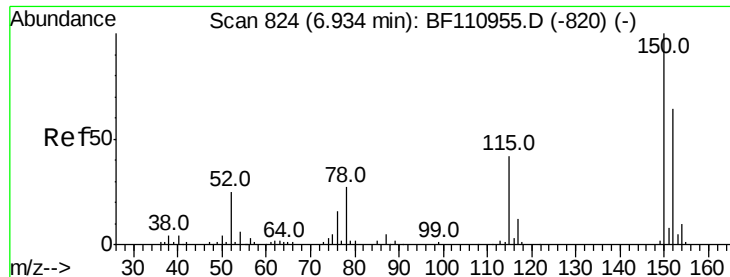
Instrument :
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#1

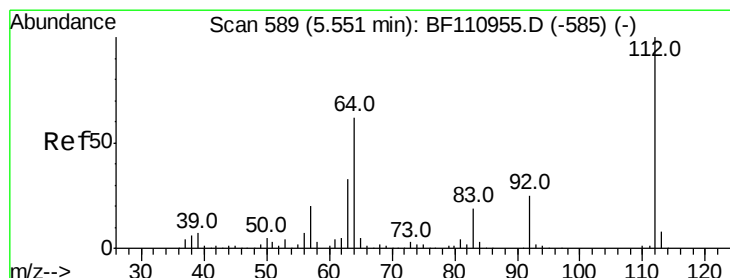
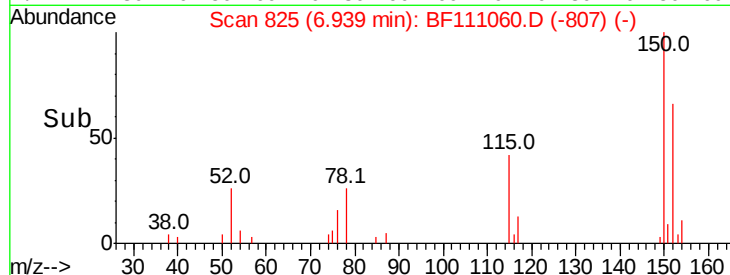
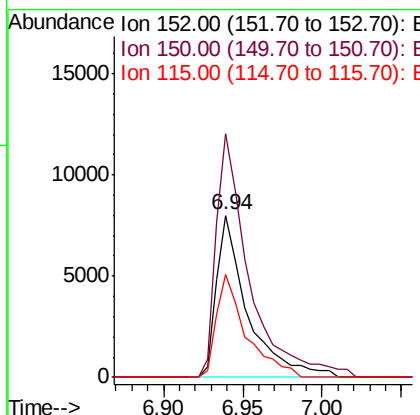
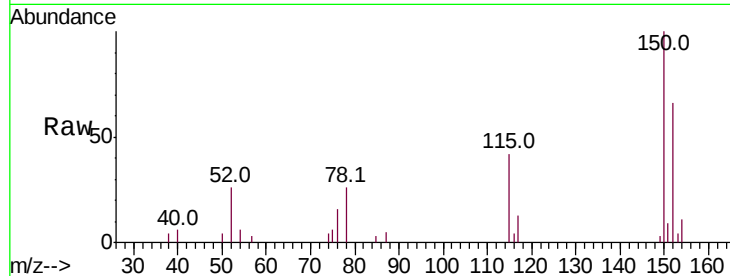
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.94 min Scan# 825
 Delta R.T. 0.01 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Instrument :
 BNA_F
 ClientSampleId :
 SS-02RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.5	122.7	184.1
115	63.4	49.1	73.7

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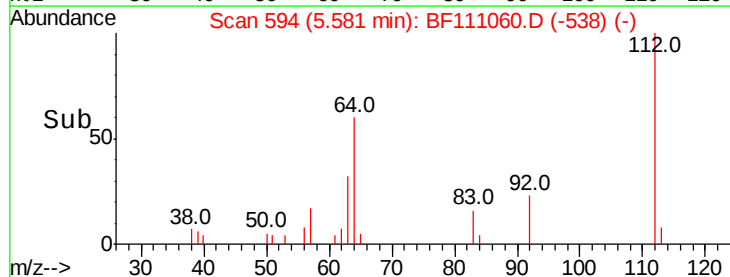
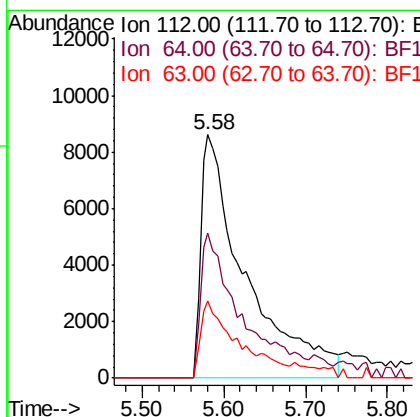
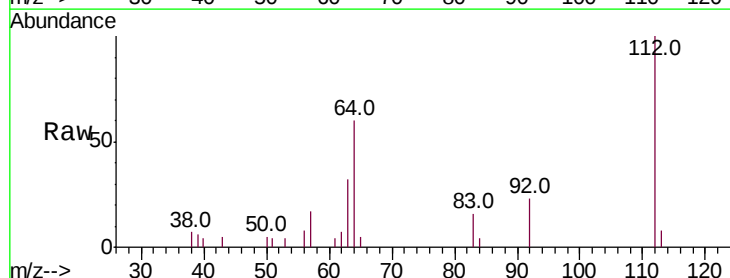
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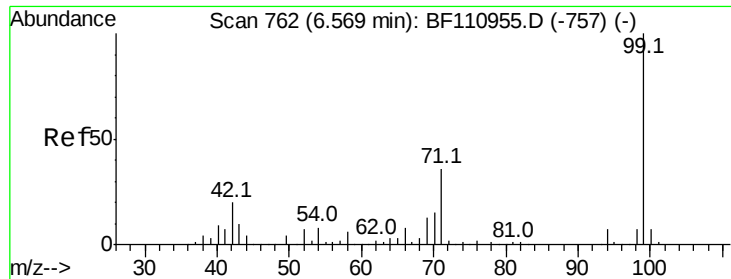


#5

2-Fluorophenol
 Concen: 49.926 ng
 RT: 5.58 min Scan# 594
 Delta R.T. 0.03 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	44.1	66.1
63	31.9	23.7	35.5





#7

Phenol-d6

Concen: 52.575 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.02 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Instrument :

BNA_F

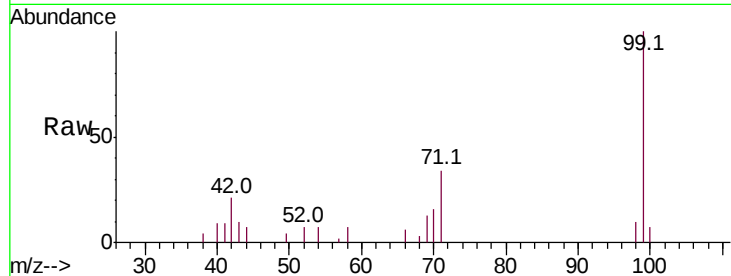
ClientSampleId :

SS-02RE

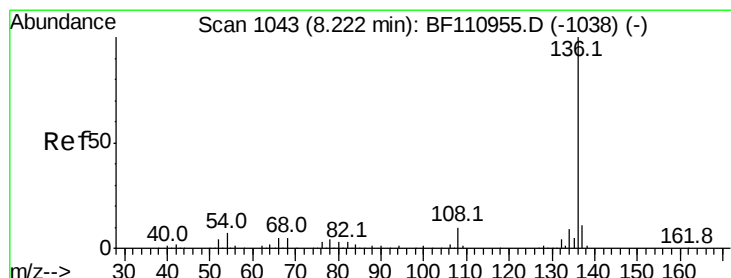
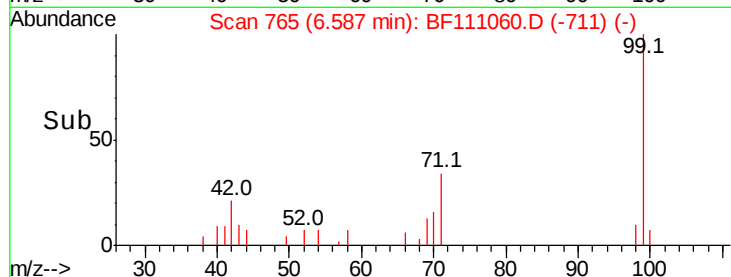
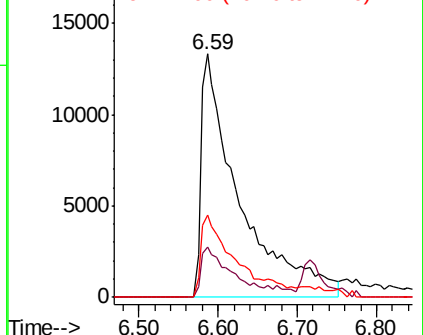
Tot Ion:	99	Resp:	44728
Ion Ratio	Lower	Upper	
99	100		
42	20.9	15.8	23.6
71	33.8	28.0	42.0

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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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.23 min Scan# 1044

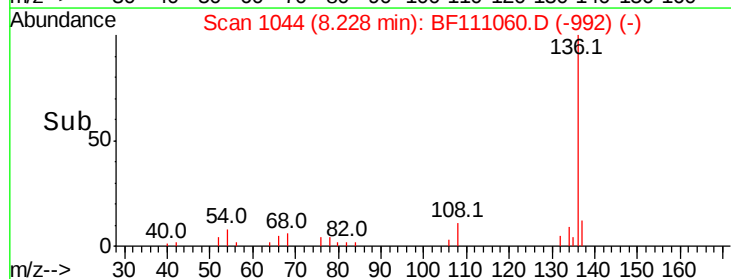
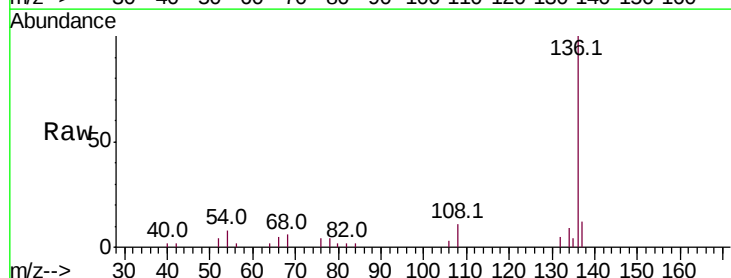
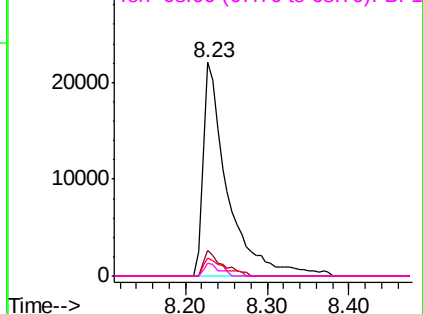
Delta R.T. 0.01 min

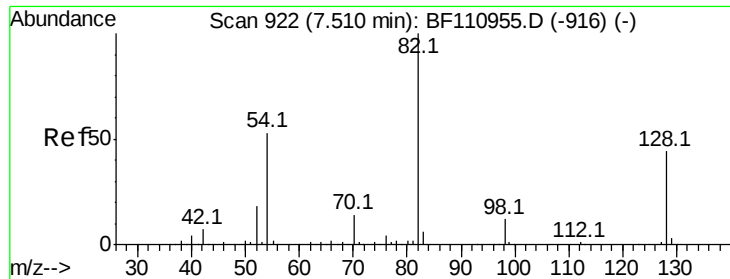
Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Tgt Ion:	136	Resp:	45955
Ion Ratio	Lower	Upper	
136	100		
137	12.1	8.8	13.2
54	8.1	5.4	8.2
68	6.1	4.2	6.2

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





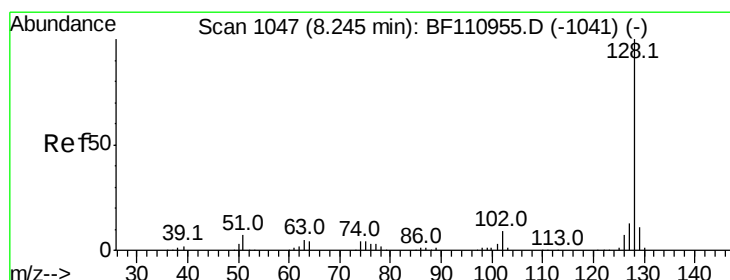
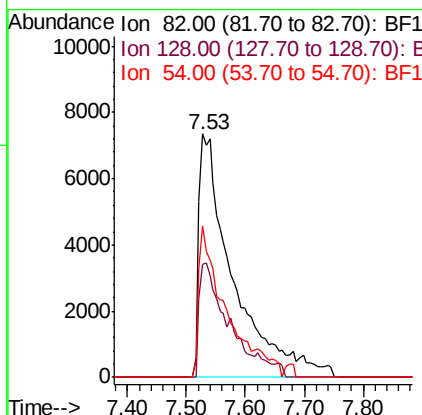
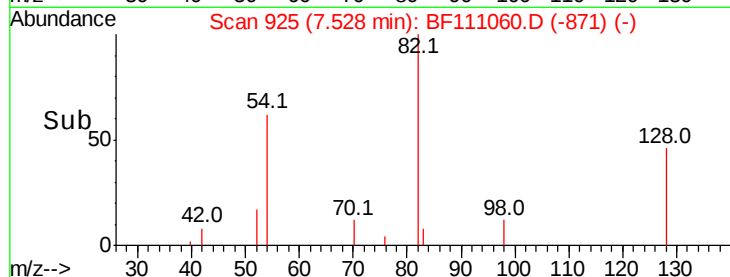
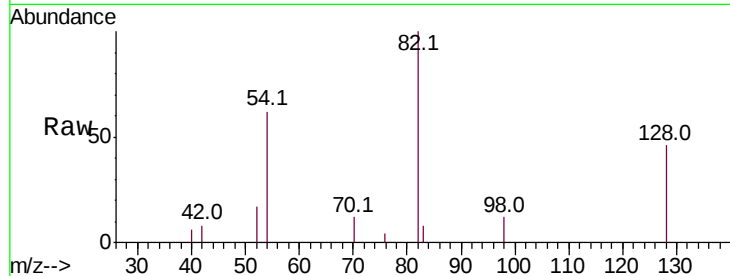
#23
 Nitrobenzene-d5
 Concen: 36.759 ng
 RT: 7.53 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Instrument :
 BNA_F
 ClientSampleId :
 SS-02RE

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.2	34.2	51.2
54	62.0	38.6	58.0

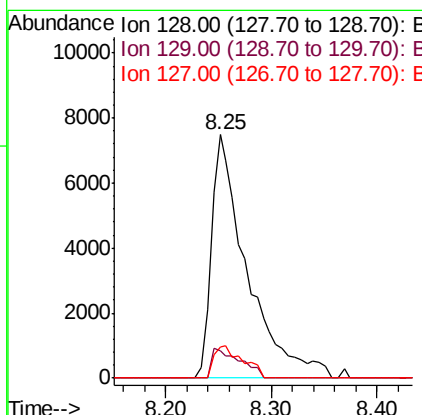
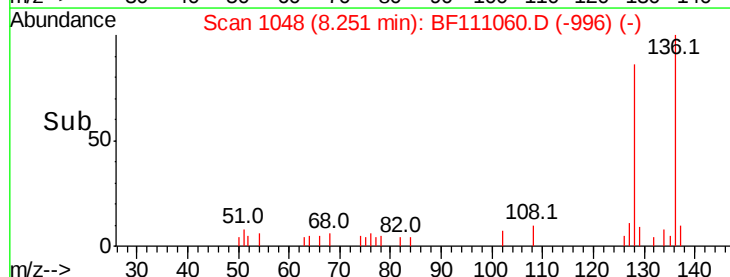
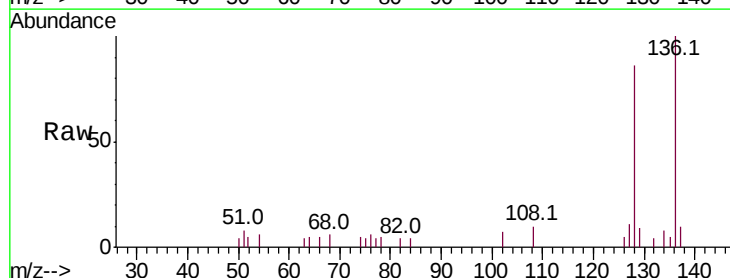
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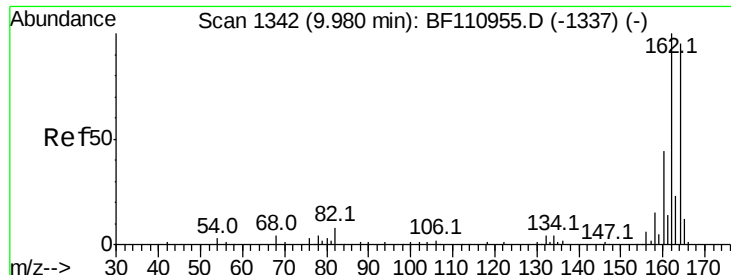
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#31
 Naphthalene
 Concen: 8.145 ng
 RT: 8.25 min Scan# 1048
 Delta R.T. 0.01 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.9	10.8	16.2





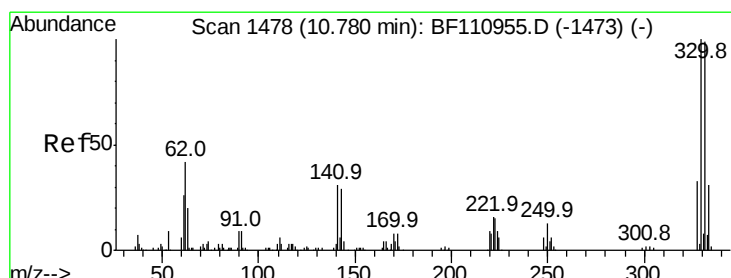
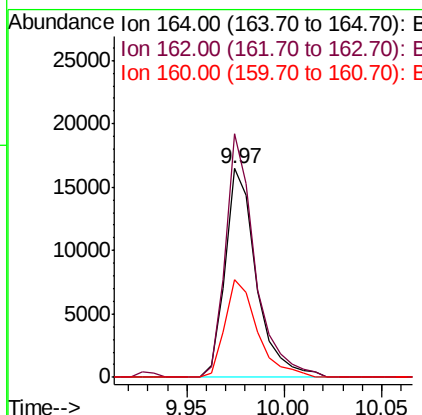
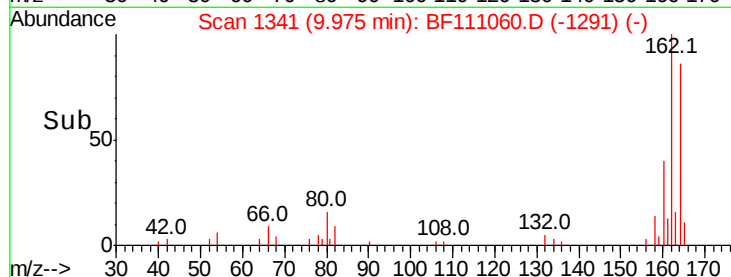
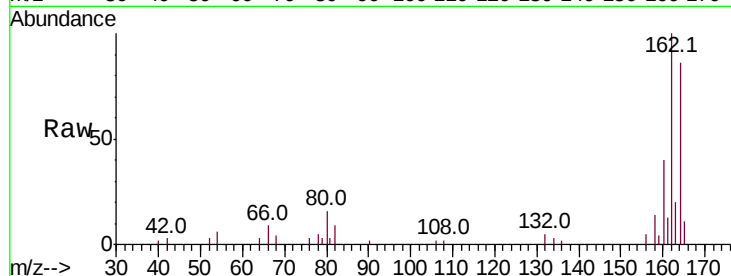
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

Tot Ion	Ratio	Lower	Upper
164	100		
162	116.6	83.0	124.6
160	46.6	37.0	55.6

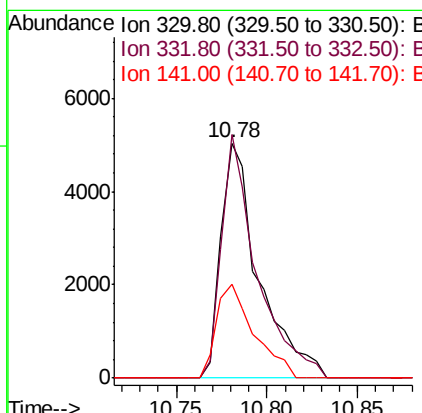
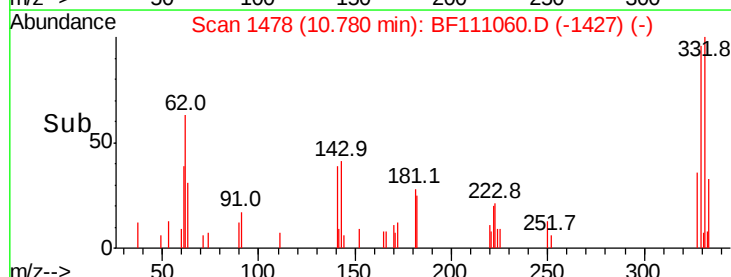
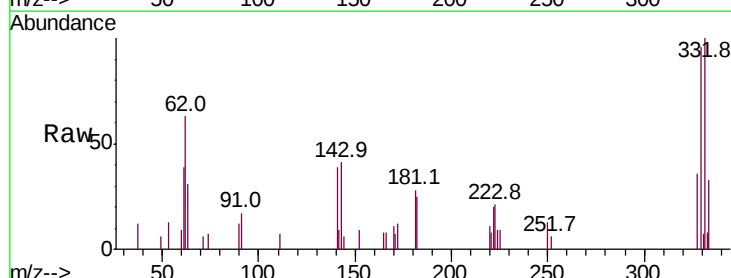
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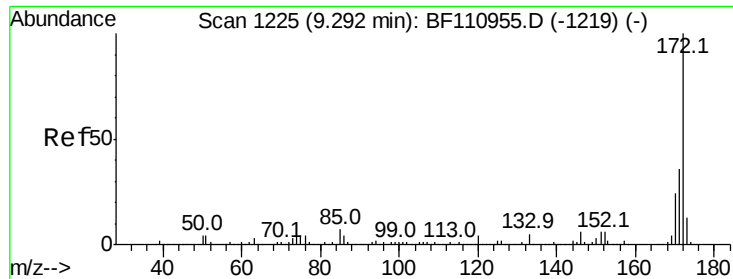
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#42
2,4,6-Tribromophenol
Concen: 40.347 ng
RT: 10.78 min Scan# 1478
Delta R.T. -0.00 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.1	115.7
141	39.7	27.0	40.4





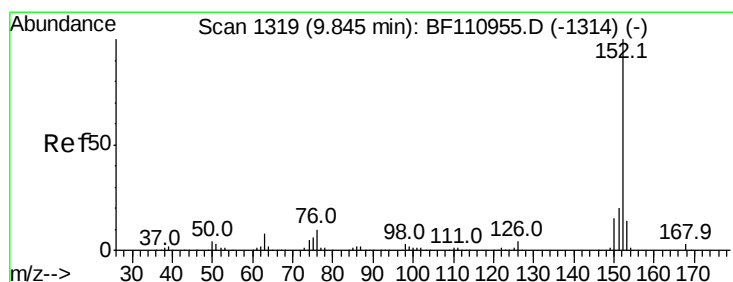
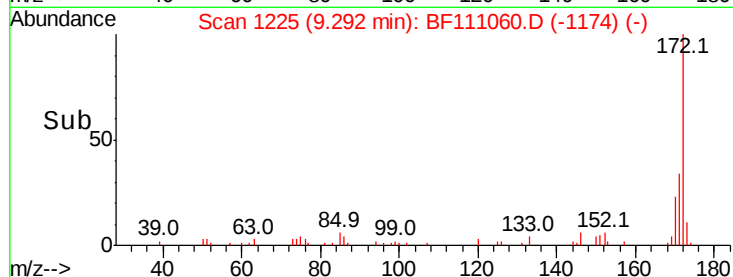
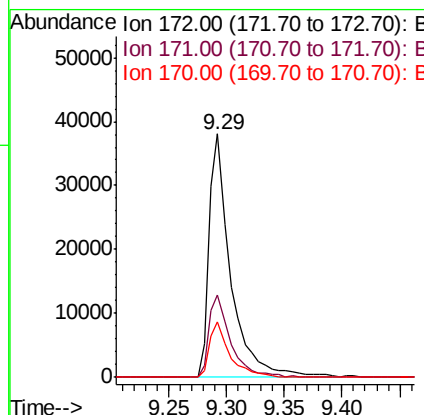
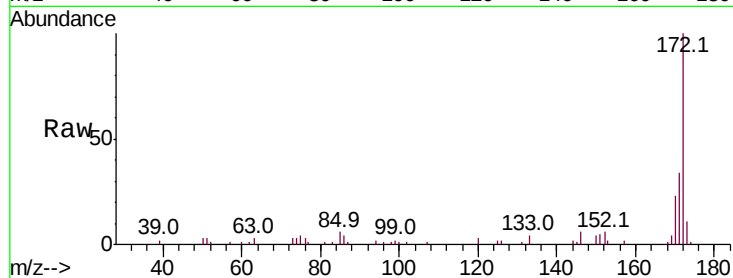
#45
2-Fluorobiphenyl
Concen: 39.325 ng
RT: 9.29 min Scan# 1225
Delta R.T. -0.00 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.6	43.0
170	22.6	19.7	29.5

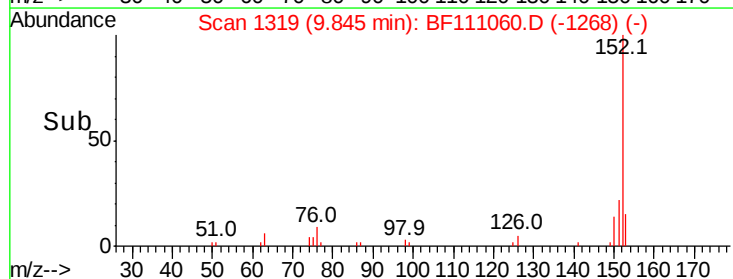
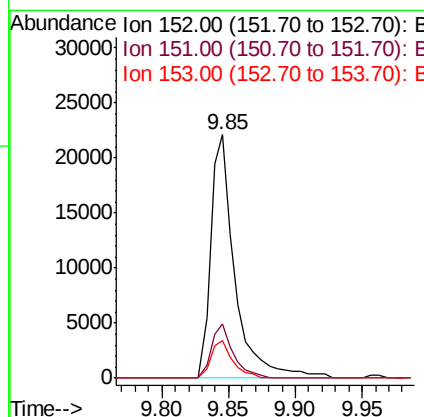
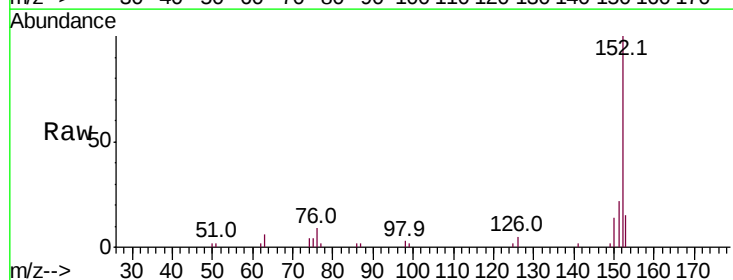
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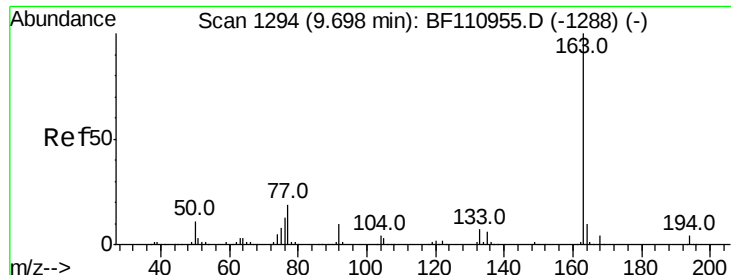
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#49
Acenaphthylene
Concen: 16.082 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.00 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.8	23.8
153	15.4	10.4	15.6





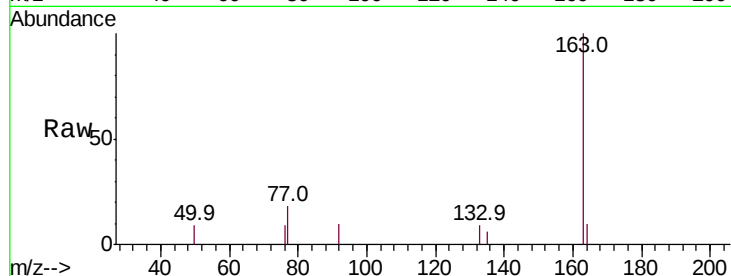
#50
Dimethylphthalate
Concen: 5.354 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

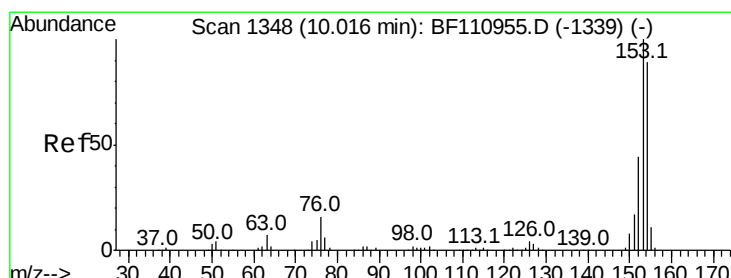
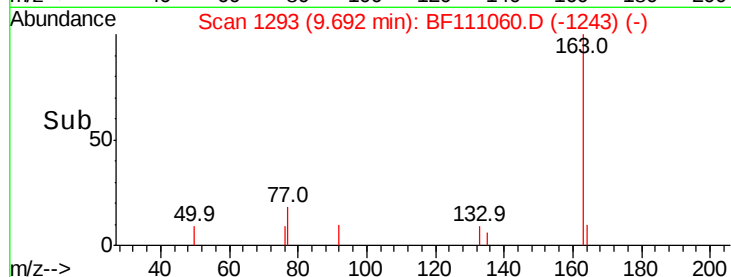
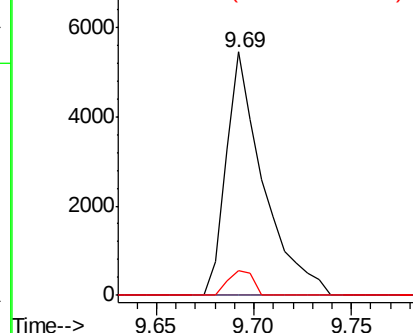
Tot Ion	Ratio	Lower	Upper
163	100		
194	0.0	3.2	4.8#
164	10.1	8.1	12.1

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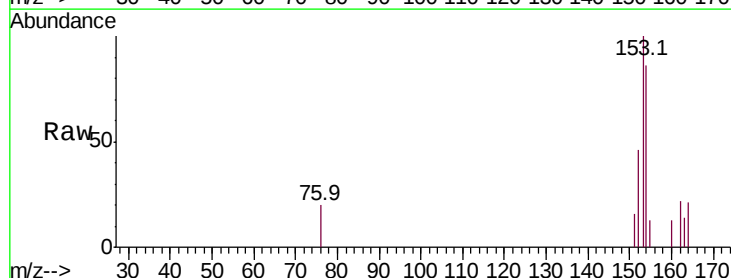


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

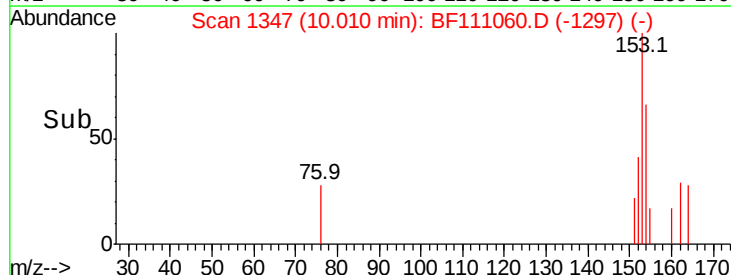
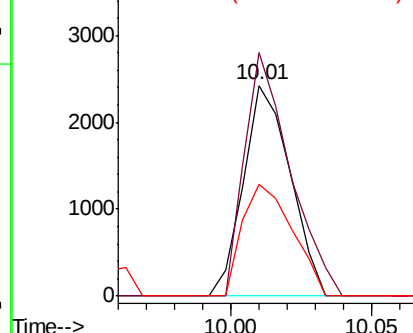


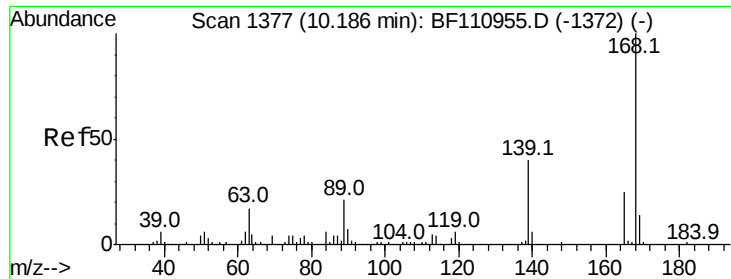
#52
Acenaphthene
Concen: 2.500 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.1	135.1
152	53.0	43.4	65.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 3.169 ng

RT: 10.20 min Scan# 1379

Delta R.T. 0.01 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Instrument :

BNA_F

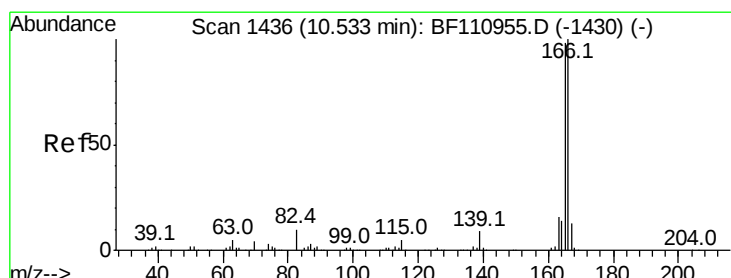
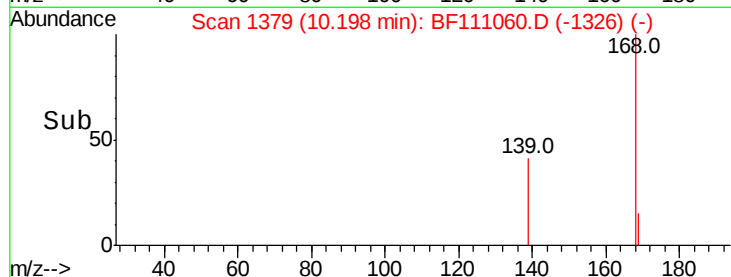
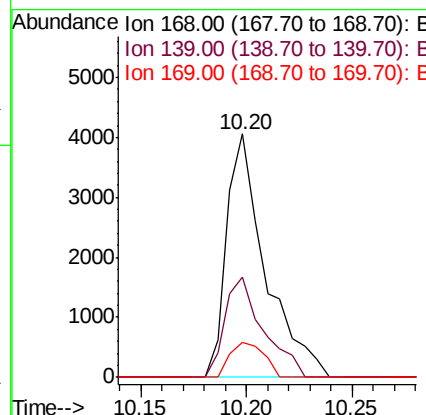
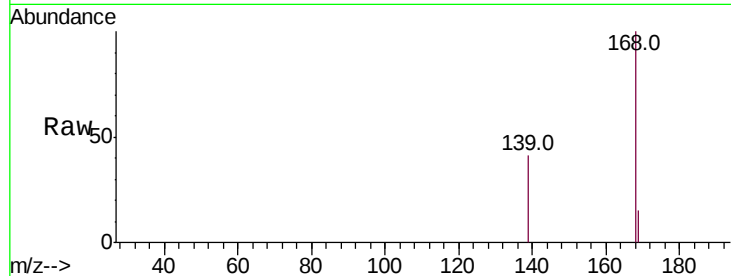
ClientSampled :

SS-02RE

Tot Ion:	168	Resp:	5152
Ion	Ratio	Lower	Upper
168	100		
139	41.2	33.0	49.6
169	14.5	11.3	16.9

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#58

Fluorene

Concen: 8.907 ng

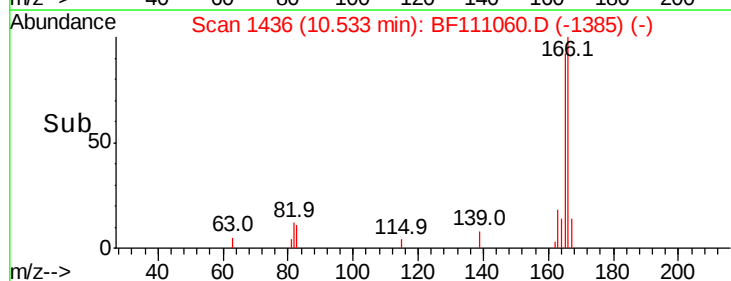
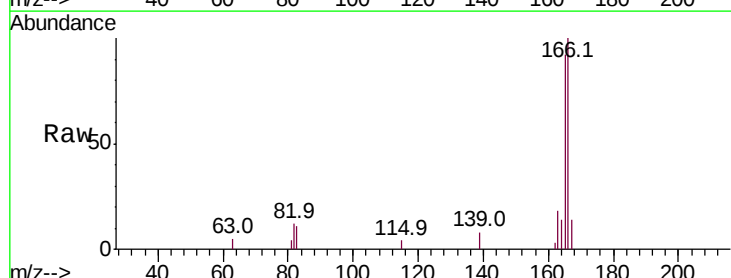
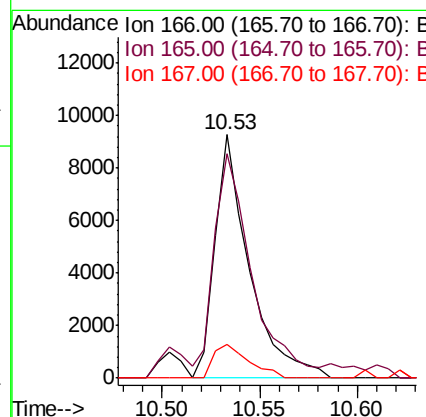
RT: 10.53 min Scan# 1436

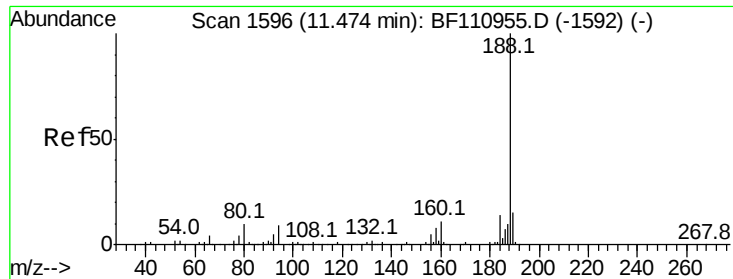
Delta R.T. -0.00 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Tgt Ion:	166	Resp:	11267
Ion	Ratio	Lower	Upper
166	100		
165	92.0	78.6	117.8
167	14.1	10.8	16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Instrument :

BNA_F

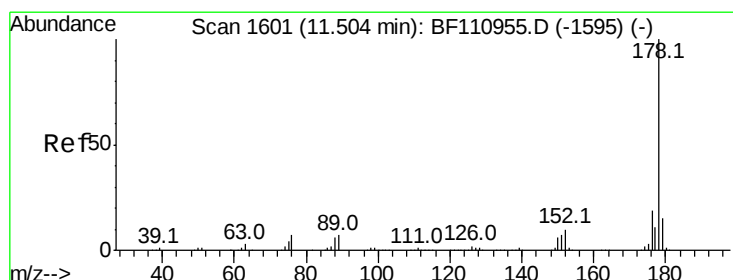
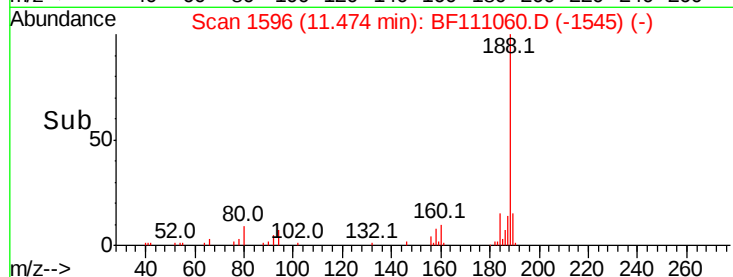
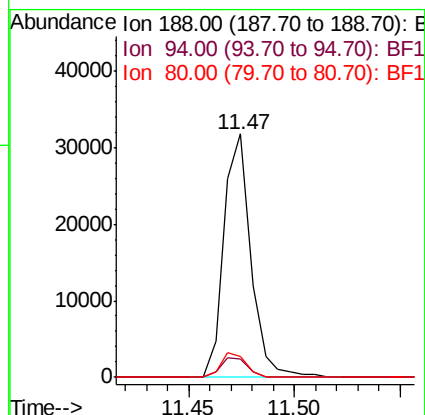
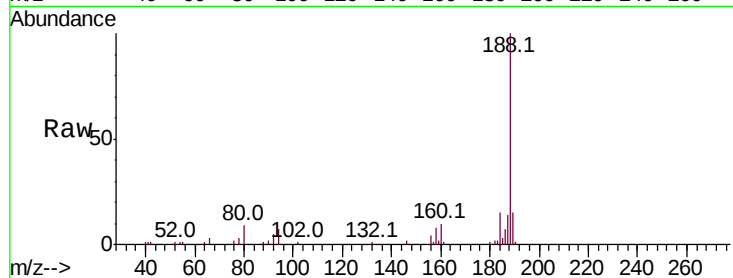
ClientSampleId :

SS-02RE

Tot Ion:	188	Resp:	28178
Ion Ratio	Lower	Upper	
188	100		
94	7.5	7.2	10.8
80	8.7	7.9	11.9

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#71

Phenanthrene

Concen: 73.752 ng

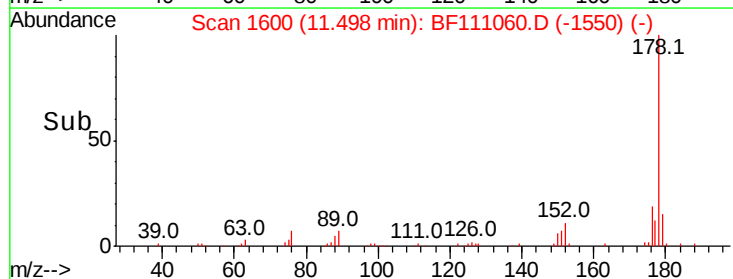
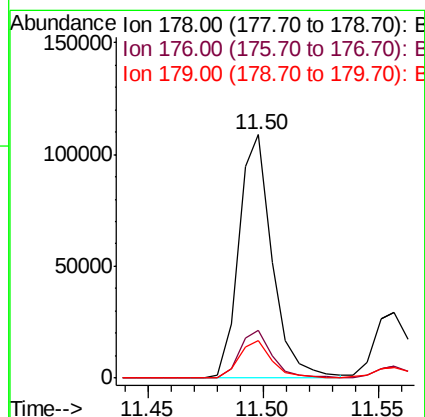
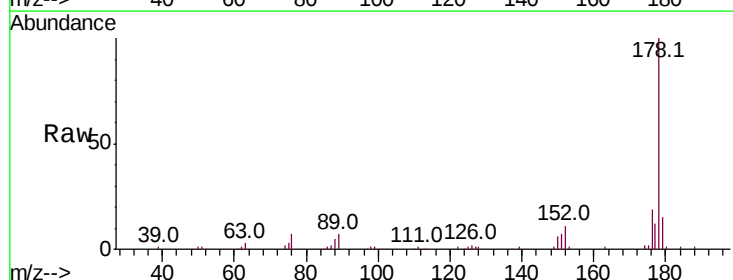
RT: 11.50 min Scan# 1600

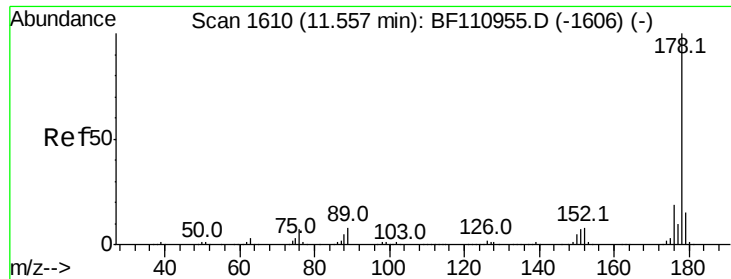
Delta R.T. -0.01 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Tgt Ion:	178	Resp:	110066
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.5	23.3
179	15.2	12.5	18.7





#72

Anthracene

Concen: 24.210 ng

RT: 11.56 min Scan# 1610

Delta R.T. -0.00 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Instrument :

BNA_F

ClientSampleId :

SS-02RE

Tot Ion:178 Resp: 36796

Ion Ratio Lower Upper

178 100

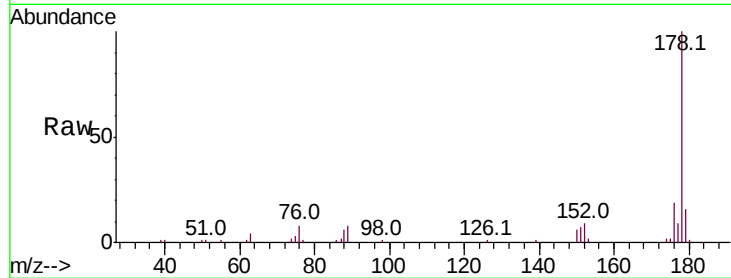
176 18.6 15.4 23.2

179 16.3 12.6 18.8

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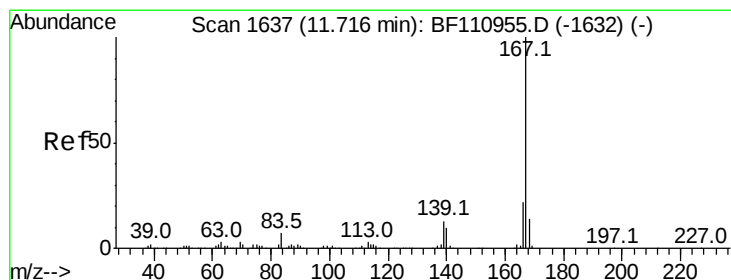
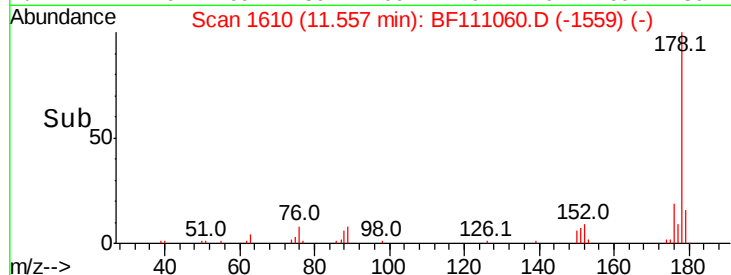
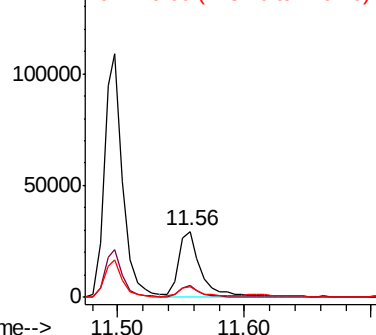


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.000 ng

RT: 11.72 min Scan# 1638

Delta R.T. 0.01 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

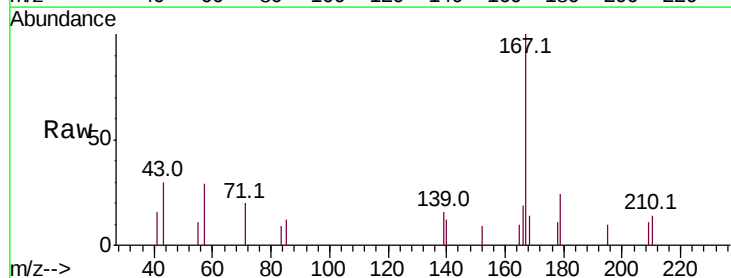
Tgt Ion:167 Resp: 4425

Ion Ratio Lower Upper

167 100

166 19.3 17.4 26.0

139 15.6 10.9 16.3

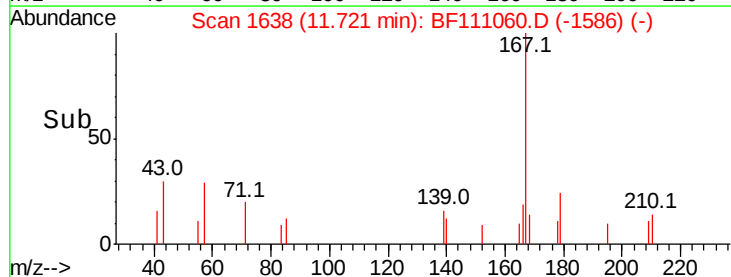
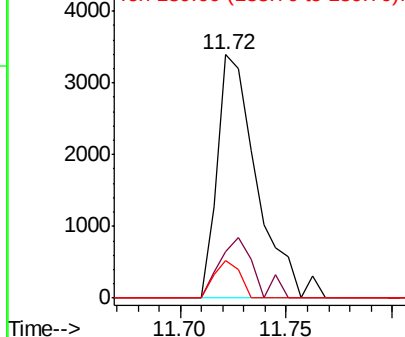


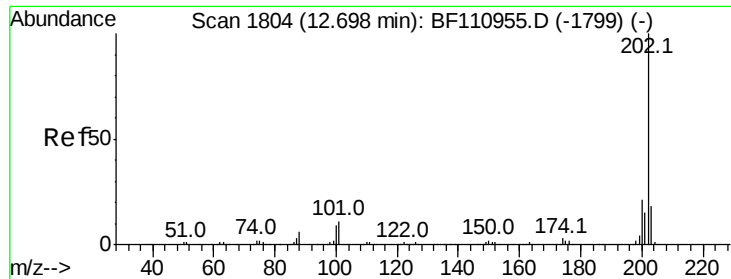
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 114.544 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Instrument :

BNA_F

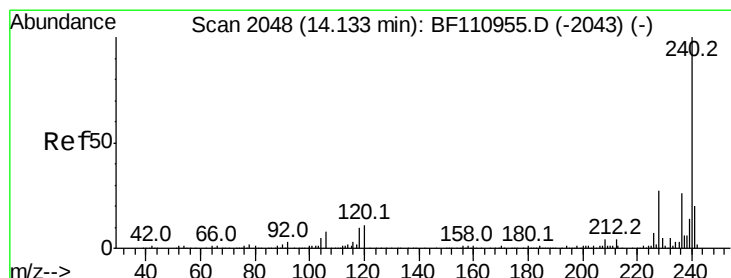
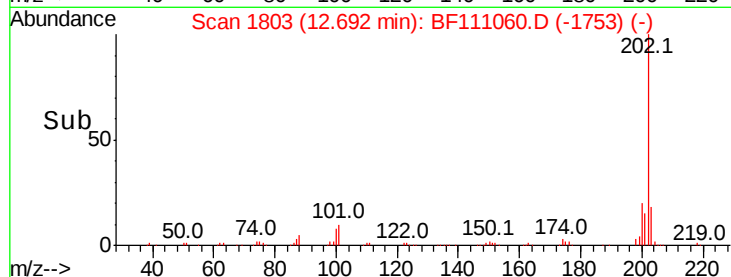
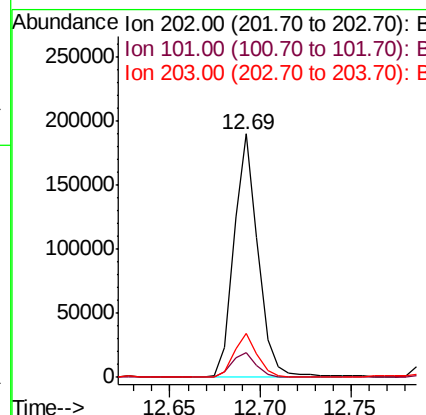
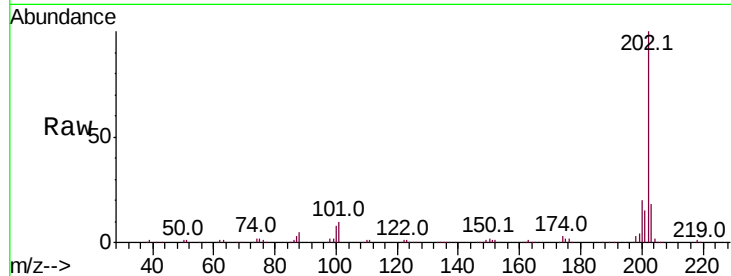
ClientSampled :

SS-02RE

Tot Ion	Ratio	Resp	Lower	Upper
202	100	175694		
101	10.1	0.0	31.4	
203	18.1	0.0	37.7	

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#76

Chrysene-d12

Concen: 20.000 ng

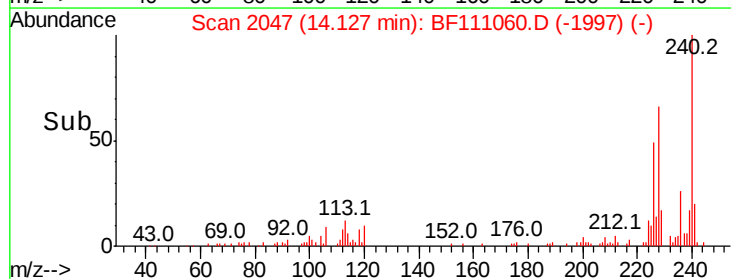
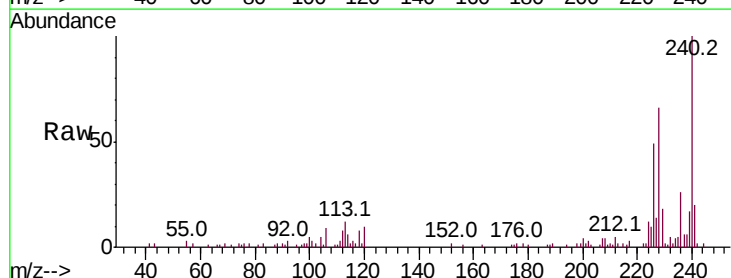
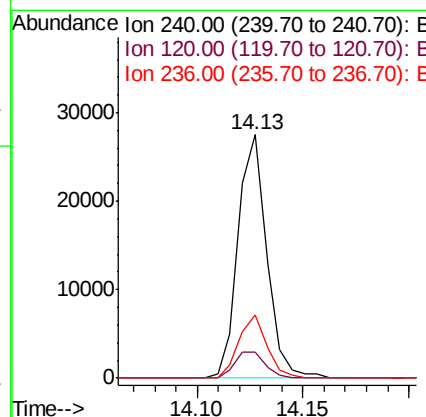
RT: 14.13 min Scan# 2047

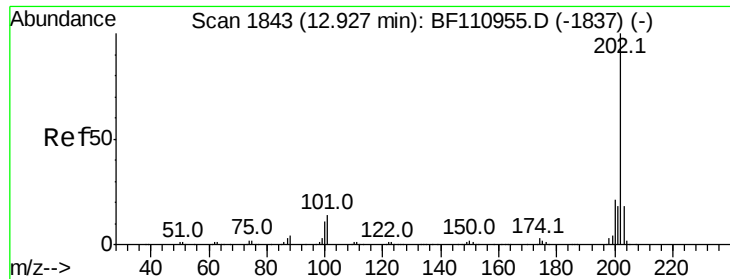
Delta R.T. -0.01 min

Lab File: BF111060.D

Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	25738		
120	10.5	8.3	12.5	
236	25.7	21.2	31.8	





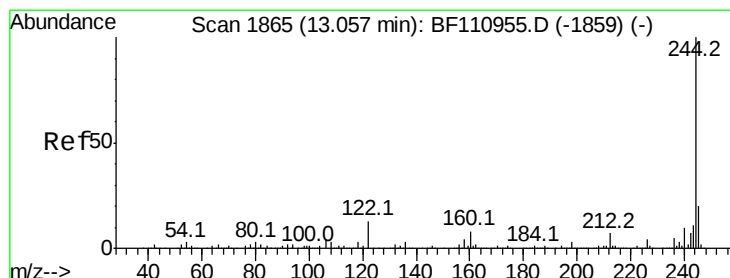
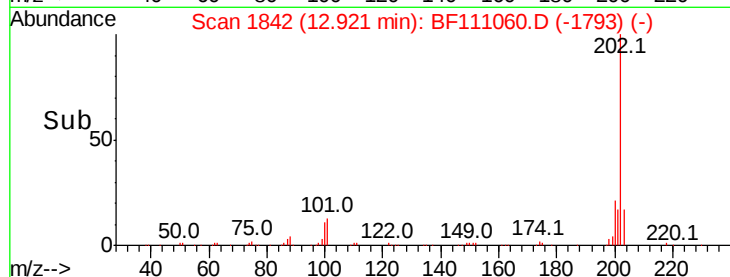
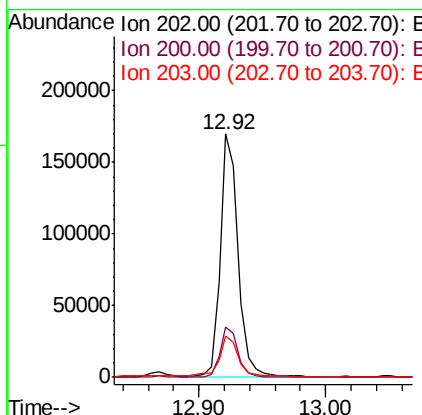
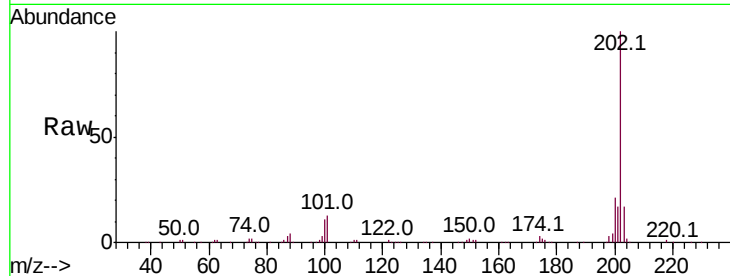
#78
Pvrene
Concen: 87.915 ng
RT: 12.92 min Scan# 1842
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.8	26.6
203	17.1	14.2	21.4

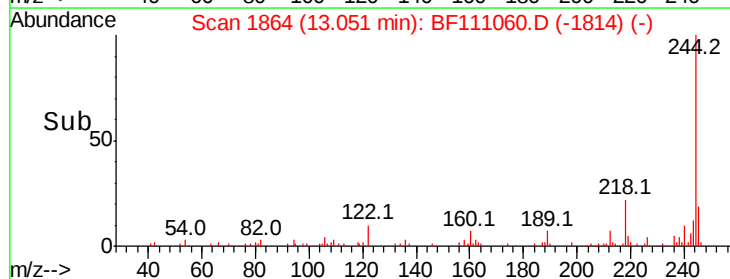
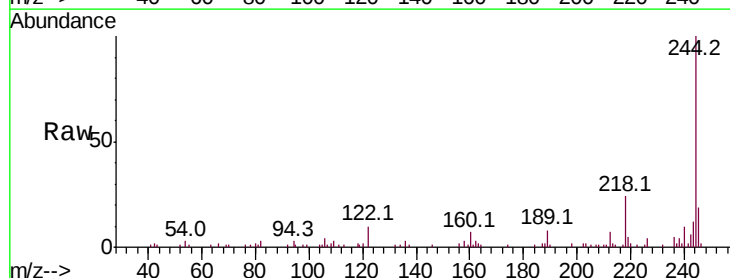
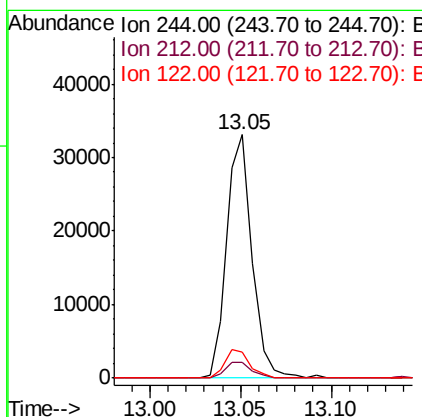
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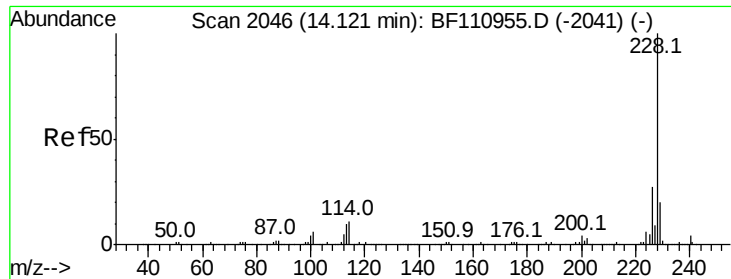
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#79
Terphenyl-d14
Concen: 24.492 ng
RT: 13.05 min Scan# 1864
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.8	8.8
122	10.5	8.7	13.1





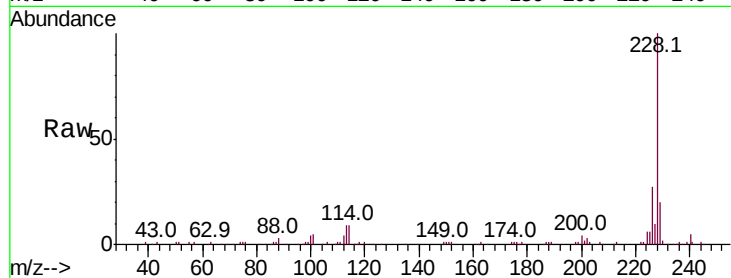
#81
Benzo(a)anthracene
Concen: 62.728 ng
RT: 14.12 min Scan# 2045
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

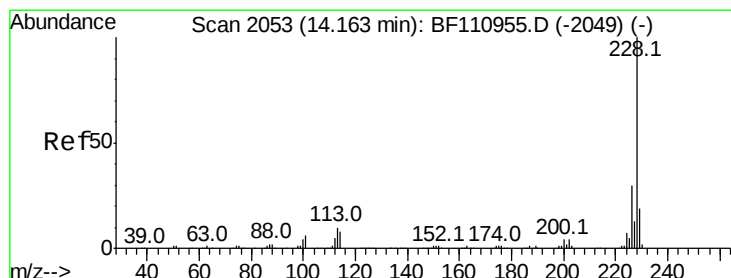
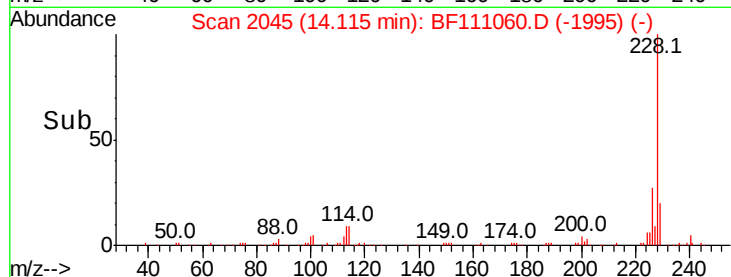
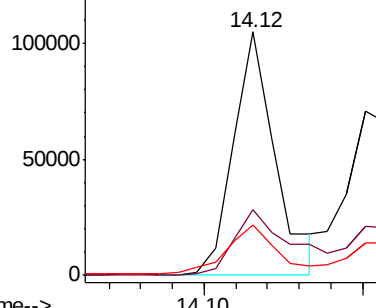
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.1	33.1
229	20.5	15.6	23.4

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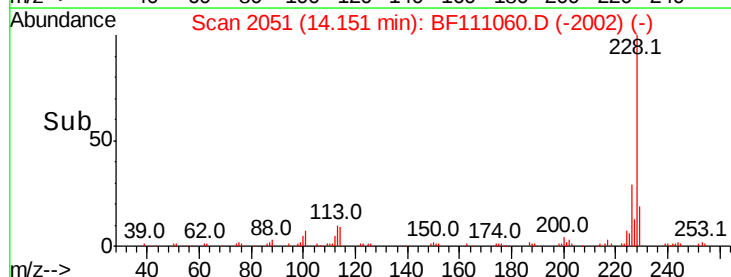
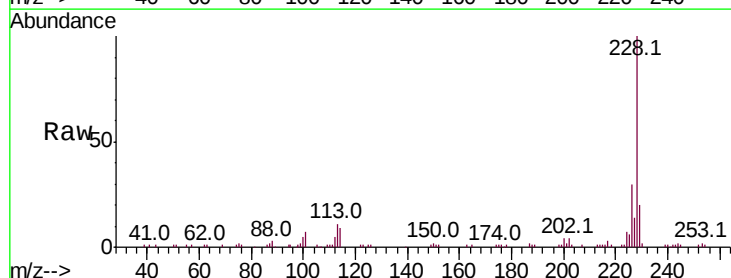
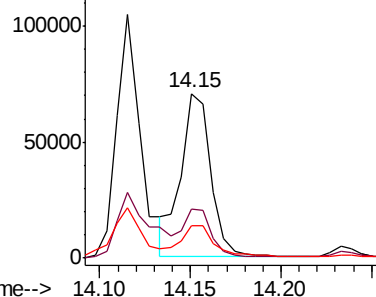
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

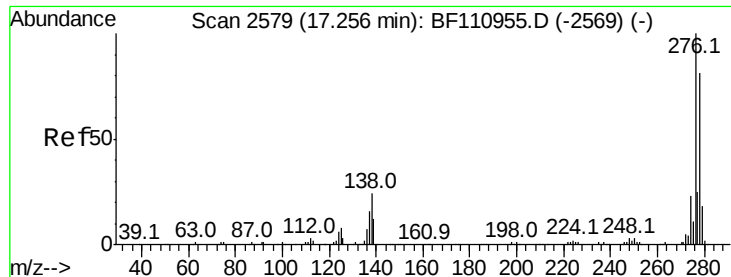


#83
Chrysene
Concen: 54.174 ng
RT: 14.15 min Scan# 2051
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.7	37.1
229	19.9	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





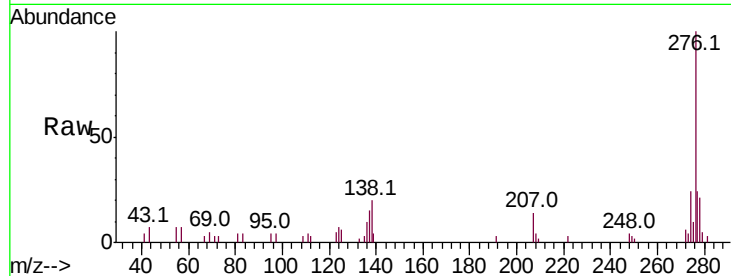
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 31.347 ng
 RT: 17.26 min Scan# 2579
 Delta R.T. 0.01 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Instrument :
 BNA_F
 ClientSampleId :
 SS-02RE

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.5	27.7
277	24.4	20.0	30.0

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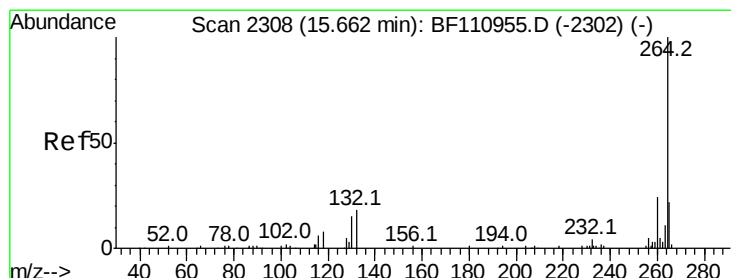
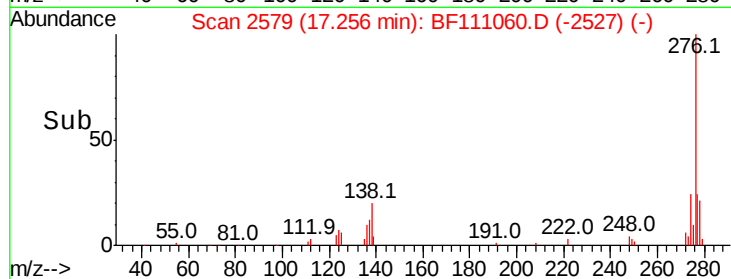
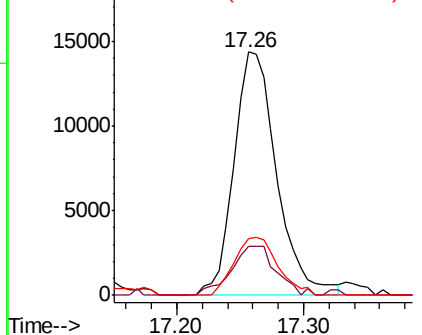


Abundance

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: 15.66 min Scan# 2308
 Delta R.T. -0.01 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

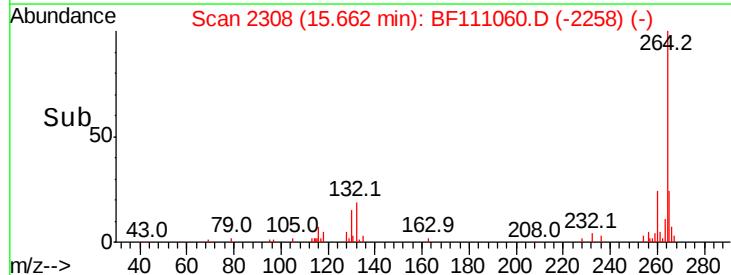
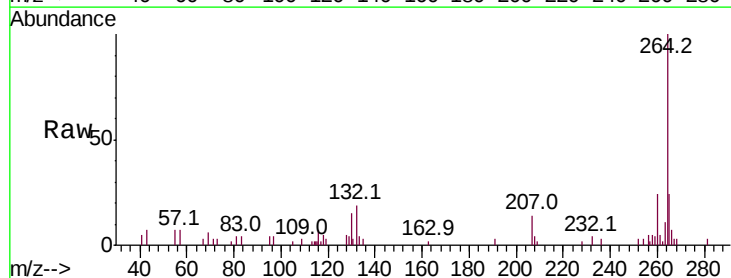
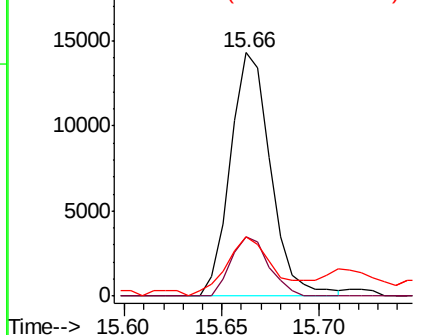
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	24.2	16.7	25.1

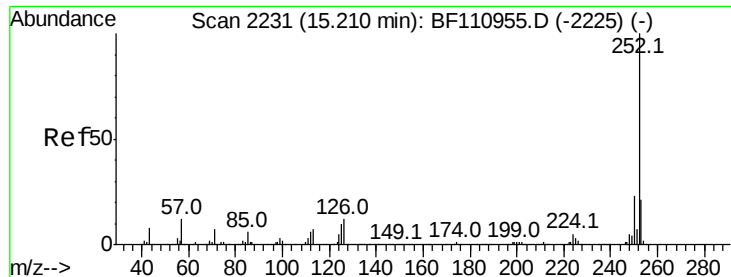
Abundance

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





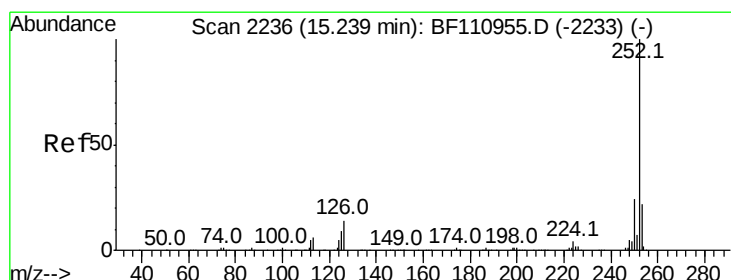
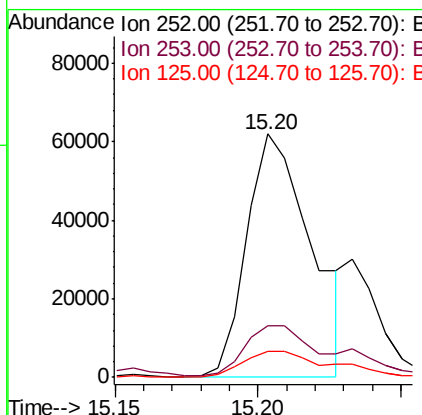
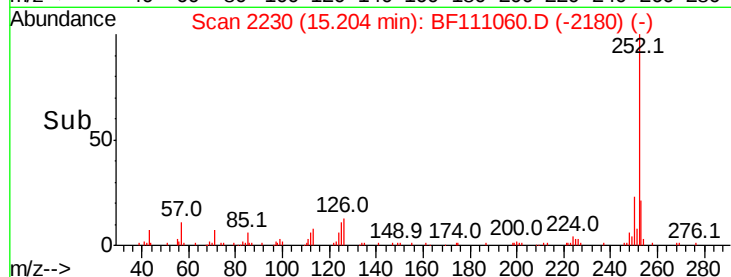
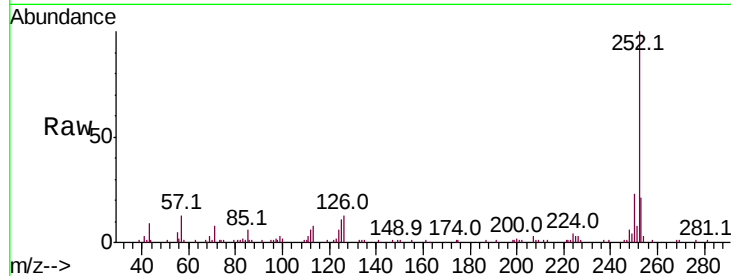
#88
Benzo(b)fluoranthene
Concen: 80.501 ng m
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.2	25.8
125	10.6	8.2	12.4

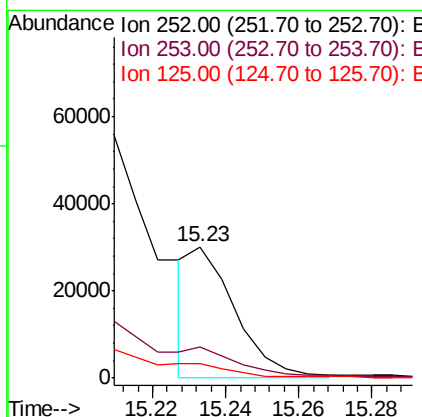
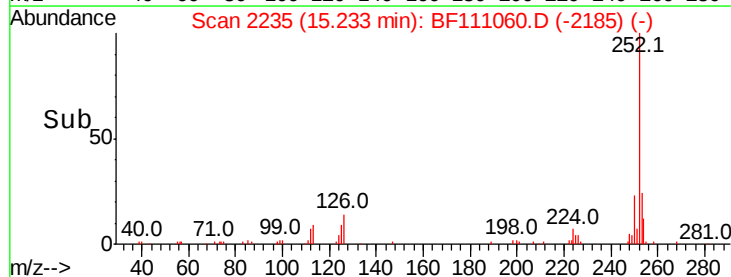
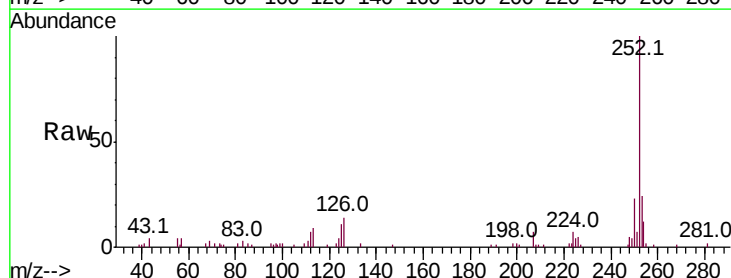
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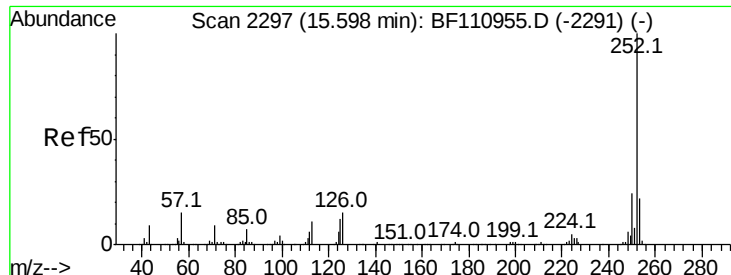
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#89
Benzo(k)fluoranthene
Concen: 20.697 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.2	25.8
125	10.6	7.4	11.0





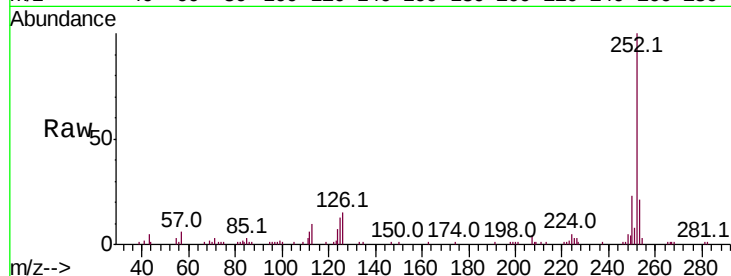
#90
Benzo(a)pyrene
Concen: 58.603 ng
RT: 15.60 min Scan# 2297
Delta R.T. -0.01 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

Instrument :
BNA_F
ClientSampleId :
SS-02RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.2	27.4
125	12.7	9.0	13.6

Manual Integrations
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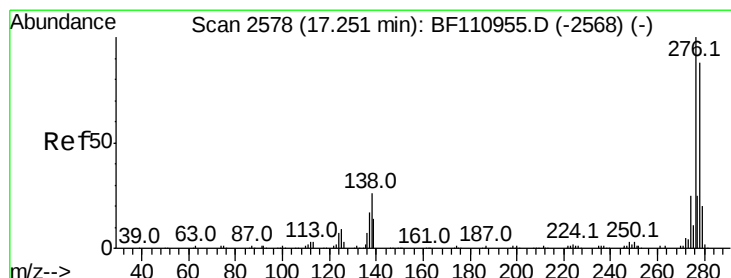
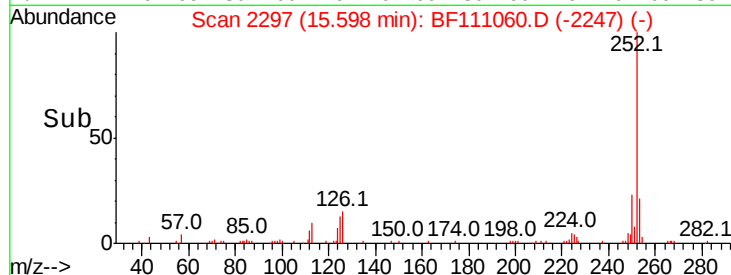
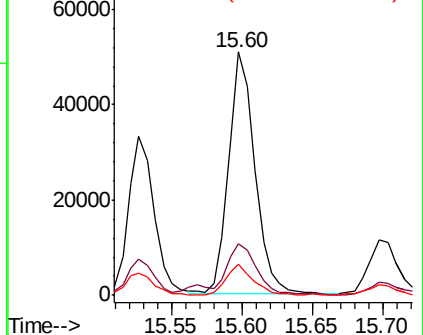


Abundance

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: 8.545 ng m
RT: 17.25 min Scan# 2578
Delta R.T. -0.00 min
Lab File: BF111060.D
Acq: 28 Nov 2018 22:01

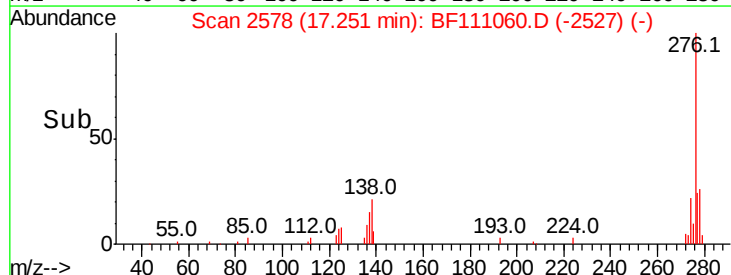
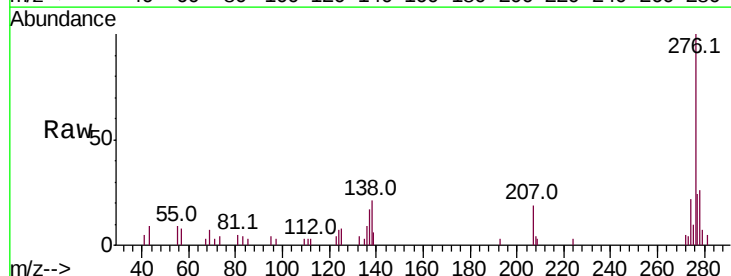
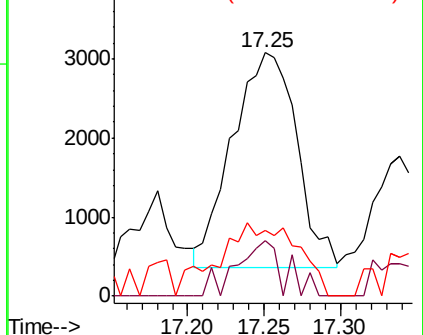
Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.0	12.7	19.1#
279	26.8	19.0	28.4

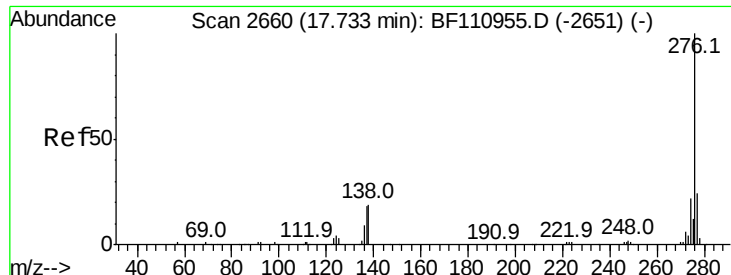
Abundance

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





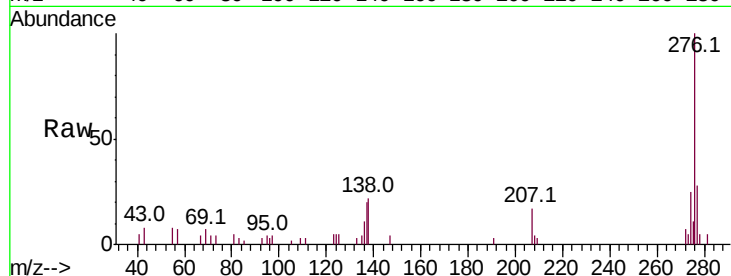
#92
 Benzo(a,h,i)perylene
 Concen: 34.139 ng
 RT: 17.74 min Scan# 2662
 Delta R.T. 0.01 min
 Lab File: BF111060.D
 Acq: 28 Nov 2018 22:01

Instrument :
 BNA_F
 ClientSampleId :
 SS-02RE

Tot Ion:	276	Resp:	30478
Ion Ratio	Lower	Upper	
276	100		
277	27.8	18.8	28.2
138	22.0	16.0	24.0

Manual Integrations
 APPROVED

mohammad
 11/29/2018 1:58:44 PM



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

