

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
 Data File : BF110931.D
 Acq On : 21 Nov 2018 16:32
 Operator : JU/SJ
 Sample : J5765-03 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018

Manual Integrations
 APPROVED

mohammad
 11/23/2018 11:49:05 AM

Quant Time: Nov 21 22:57:46 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	58102	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	251875	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	114090	20.00	ng	-0.01
64) Phenanthrene-d10	11.48	188	183789	20.00	ng	0.00
76) Chrysene-d12	14.13	240	130950	20.00	ng	0.00
87) Perylene-d12	15.67	264	118623	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	26715	7.47	ng	0.02
7) Phenol-d6	6.58	99	36047	7.88	ng	0.00
23) Nitrobenzene-d5	7.53	82	24567	5.62	ng	0.01
42) 2,4,6-Tribromophenol	10.79	330	7045	6.13	ng	0.00
45) 2-Fluorobiphenyl	9.30	172	48326	6.05	ng	0.00
79) Terphenyl-d14	13.06	244	34578	4.95	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.25	128	130586	11.044	ng	99
37) 2-Methylnaphthalene	8.94	142	48646	6.276	ng	97
38) 1-Methylnaphthalene	9.04	142	46477	6.235	ng	99
49) Acenaphthylene	9.85	152	29970	2.714	ng	96
52) Acenaphthene	10.02	154	75928	10.880	ng	96
55) Dibenzofuran	10.19	168	141729	13.882	ng	98
58) Fluorene	10.53	166	219156	27.946	ng	100
71) Phenanthrene	11.51	178	1076721	109.351	ng	100
72) Anthracene	11.56	178	338406	34.070	ng	98
73) Carbazole	11.72	167	74238	7.783	ng	99
75) Fluoranthene	12.70	202	1110730	112.516	ng	99
78) Pyrene	12.94	202	918862	91.131	ng	99
81) Benzo(a)anthracene	14.13	228	512087	65.426	ng	99
83) Chrysene	14.16	228	408344	54.761	ng	98
86) Indeno(1,2,3-cd)pyrene	17.25	276	159300	29.770	ng	97
88) Benzo(b)fluoranthene	15.22	252	541712m	76.336	ng	
89) Benzo(k)fluoranthene	15.24	252	173380m	24.726	ng	
90) Benzo(a)pyrene	15.61	252	369696	57.338	ng	99
91) Dibenzo(a,h)anthracene	17.25	278	47793m	8.759	ng	
92) Benzo(a,h,i)perylene	17.74	276	140546	25.961	ng	95

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

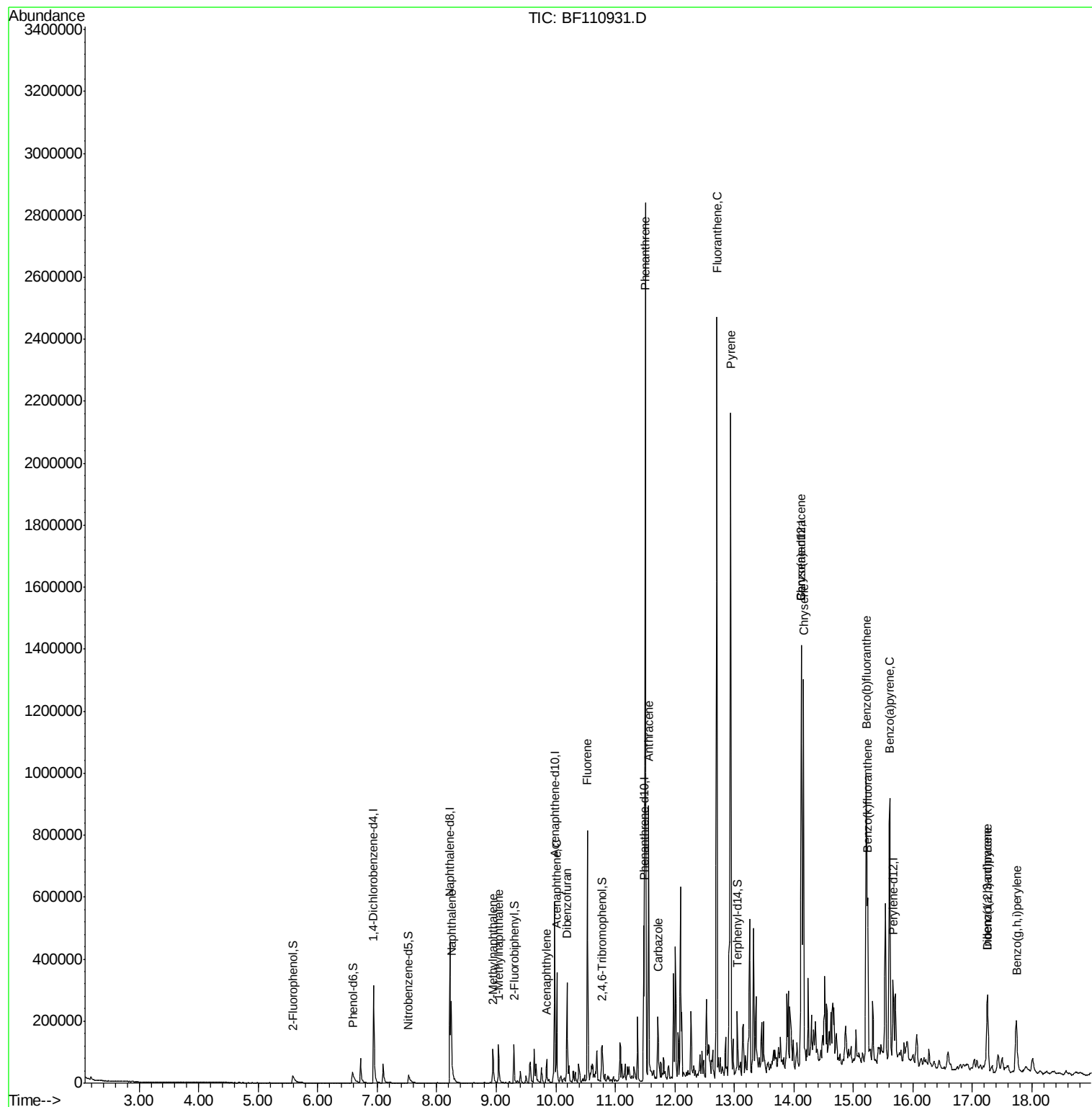
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110931.D
Acq On : 21 Nov 2018 16:32
Operator : JU/SJ
Sample : J5765-03 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

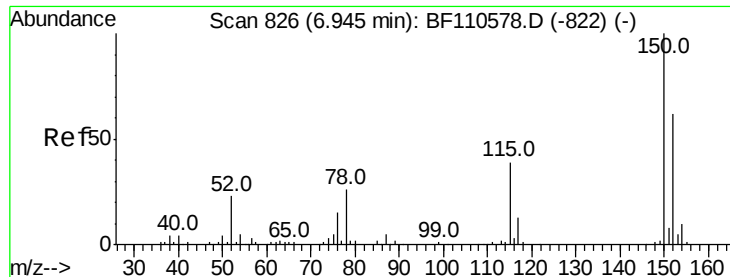
Instrument :
BNA_F
ClientSampleId :
NB-08-112018

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Quant Time: Nov 21 22:57:46 2018
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

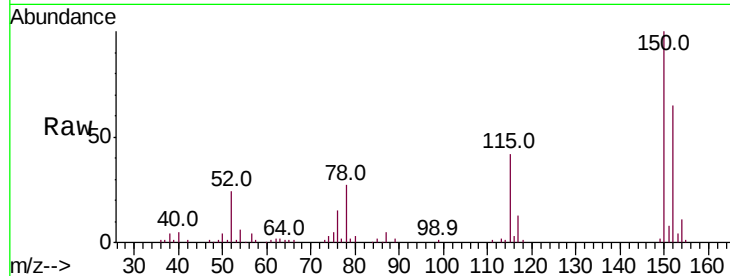
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	122.7	184.1
115	64.0	49.1	73.7

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Abundance

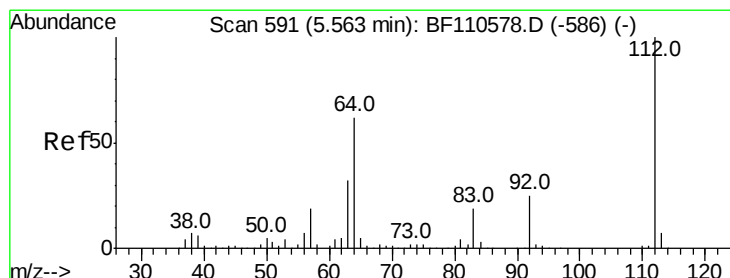
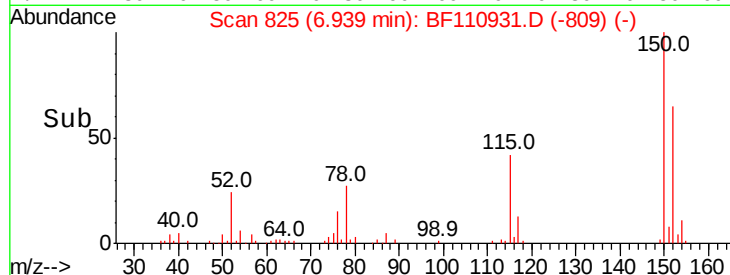
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

6.94

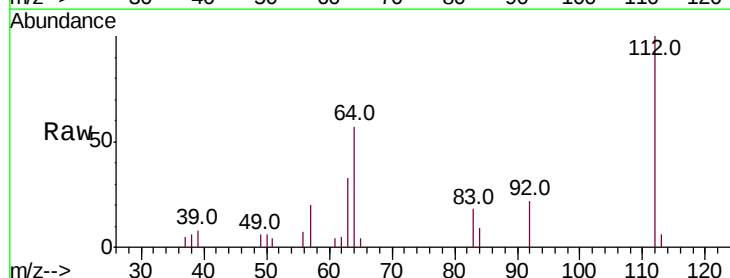
Time-->



#5

2-Fluorophenol
Concen: 7.469 ng
RT: 5.59 min Scan# 595
Delta R.T. 0.02 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	44.1	66.1
63	33.1	23.7	35.5



Abundance

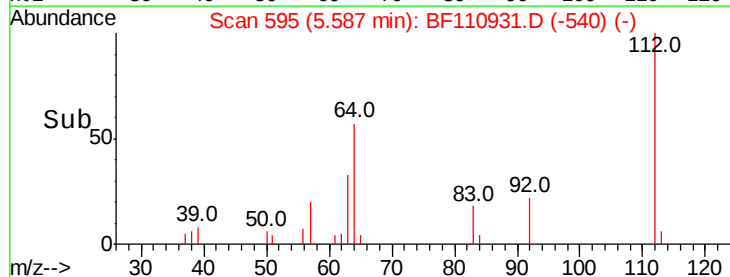
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

5.59

Time-->





#7

Phenol-d6

Concen: 7.881 ng

RT: 6.58 min Scan# 764

Delta R.T. 0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Instrument :

BNA_F

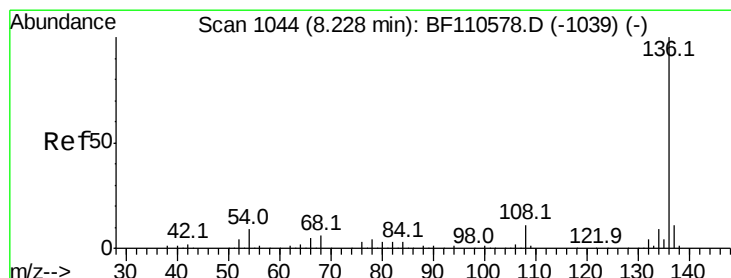
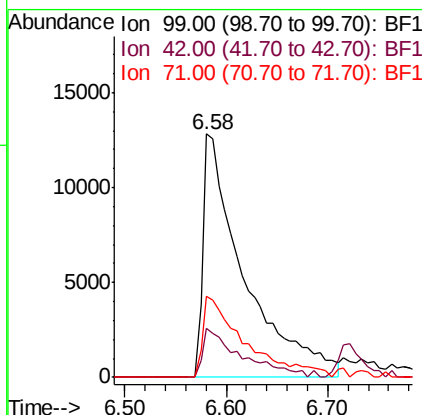
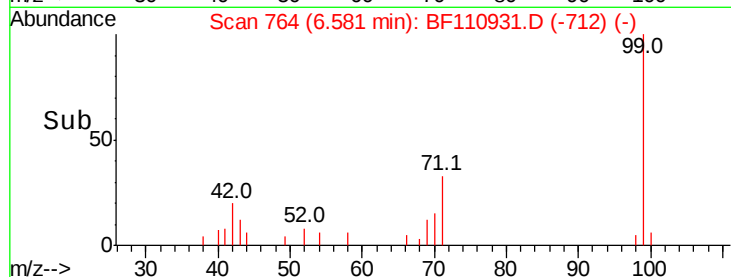
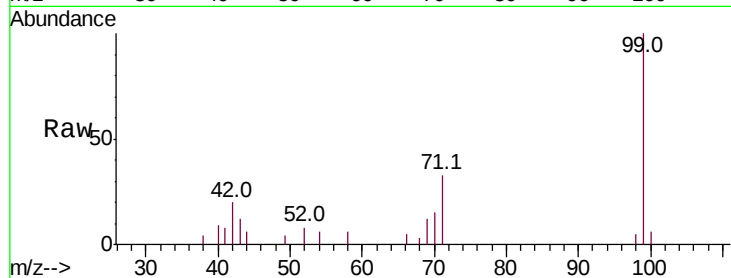
ClientSampleId :

NB-08-112018

Tot Ion:	99	Resp:	36047
Ion	Ratio	Lower	Upper
99	100		
42	20.3	15.8	23.6
71	33.2	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

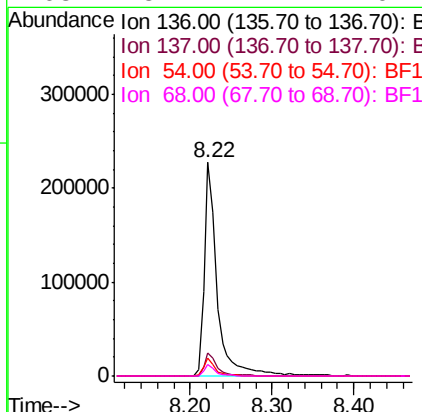
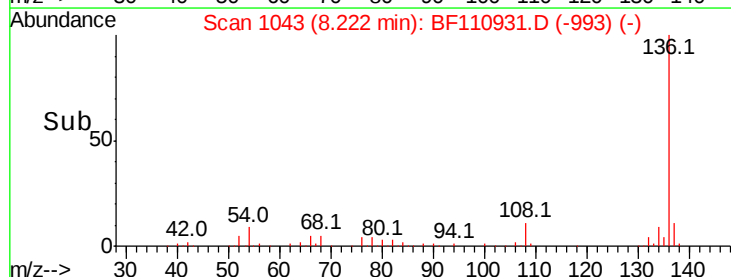
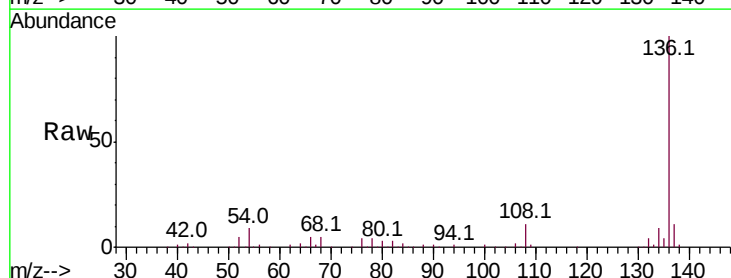
RT: 8.22 min Scan# 1043

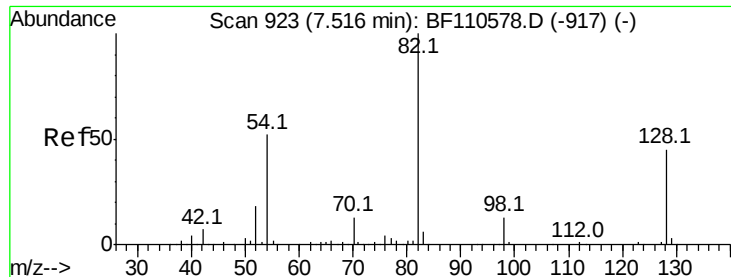
Delta R.T. -0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Tgt Ion:	136	Resp:	251875
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	8.5	5.4	8.2#
68	5.2	4.2	6.2





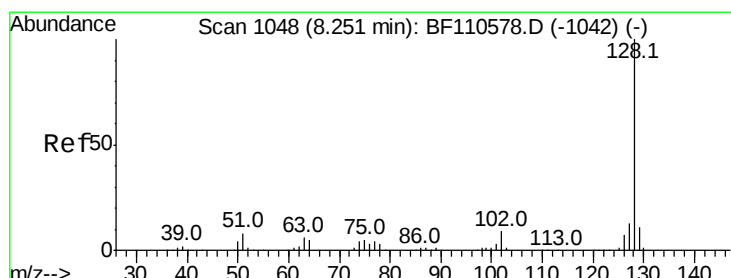
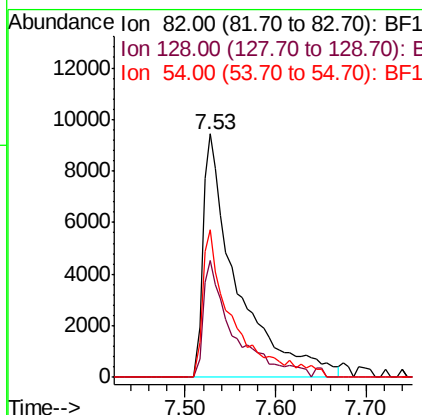
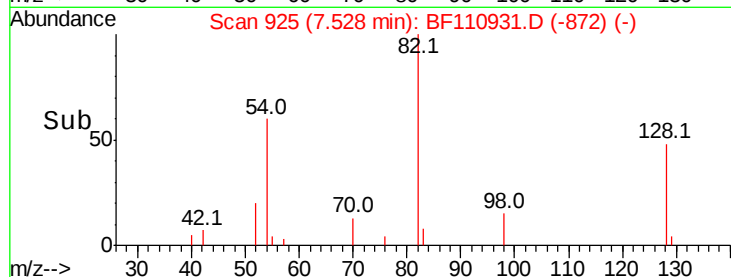
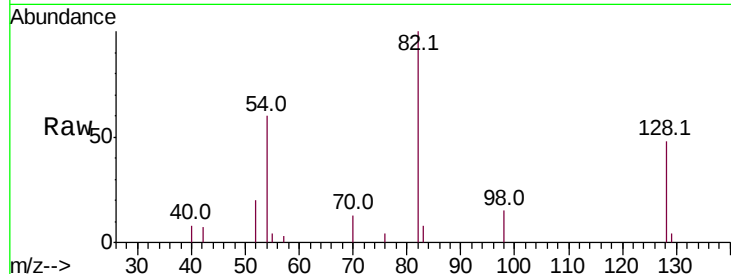
#23
 Nitrobenzene-d5
 Concen: 5.617 ng
 RT: 7.53 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.0	34.2	51.2
54	60.4	38.6	58.0

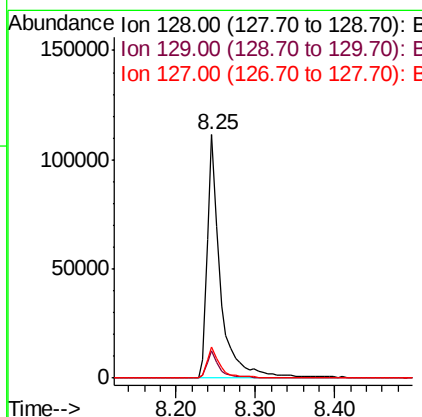
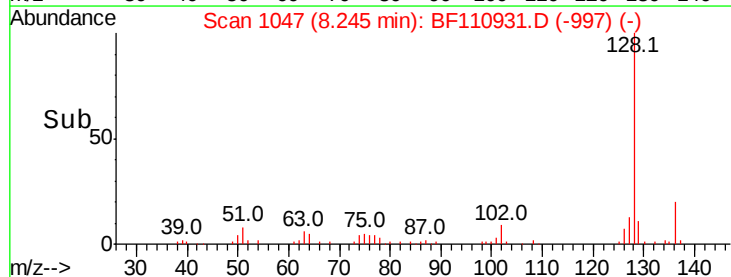
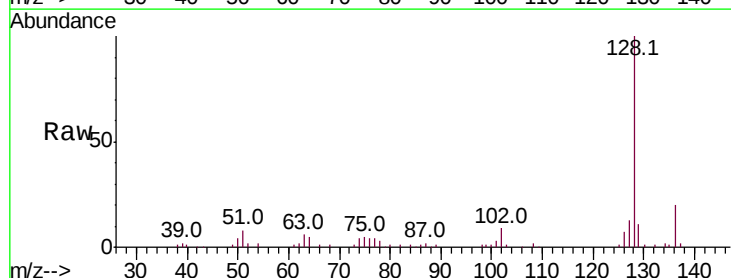
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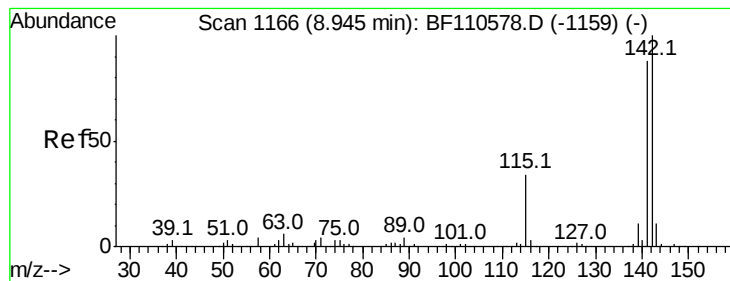
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#31
 Naphthalene
 Concen: 11.044 ng
 RT: 8.25 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	12.8	10.8	16.2





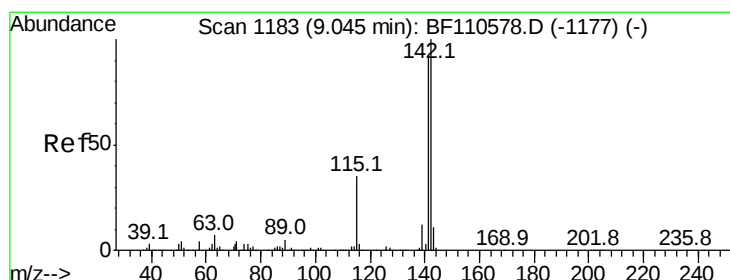
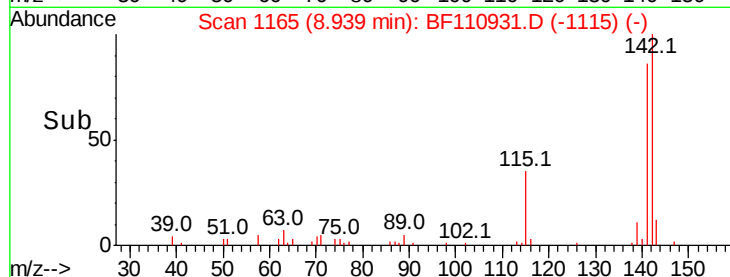
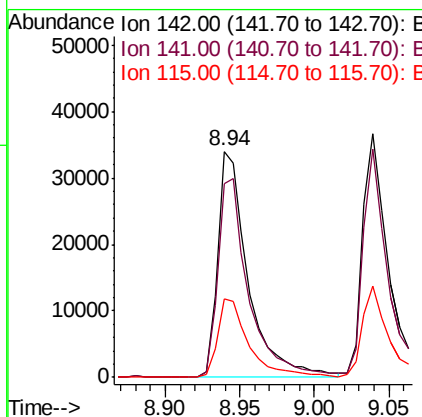
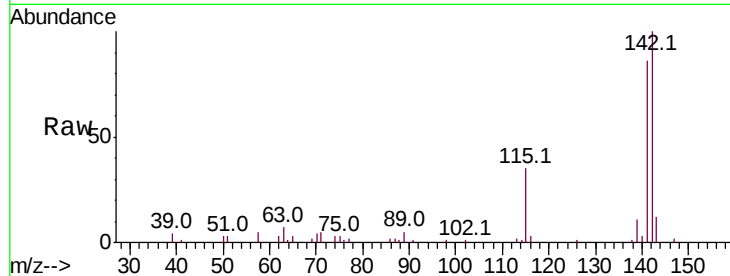
#37
2-Methylnaphthalene
Concen: 6.276 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.8	71.4	107.2
115	34.8	28.7	43.1

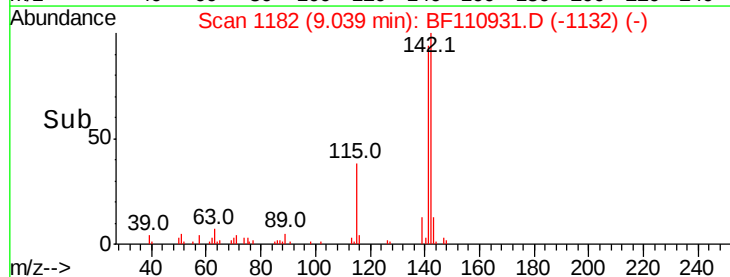
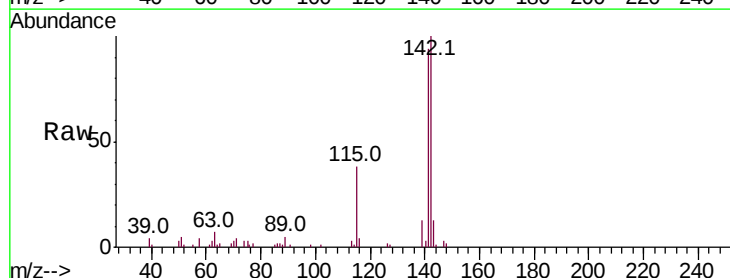
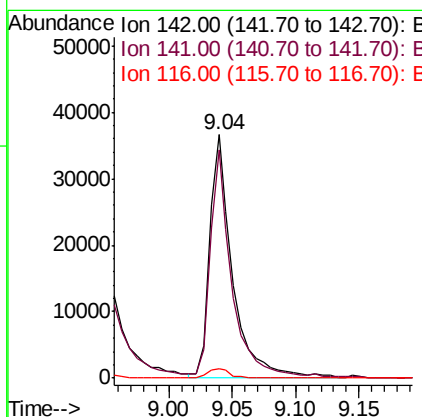
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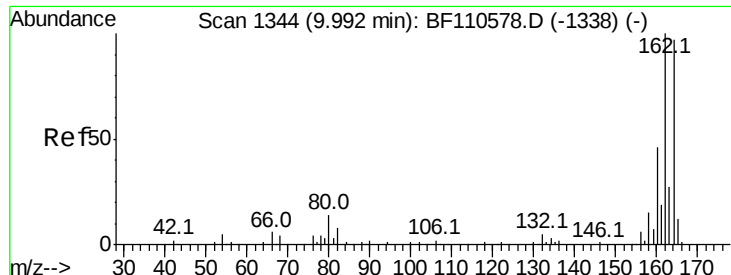
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#38
1-Methylnaphthalene
Concen: 6.235 ng
RT: 9.04 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.6	74.2	111.4
116	3.6	2.6	4.0





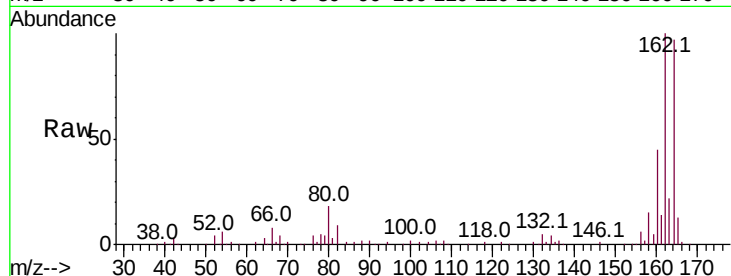
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

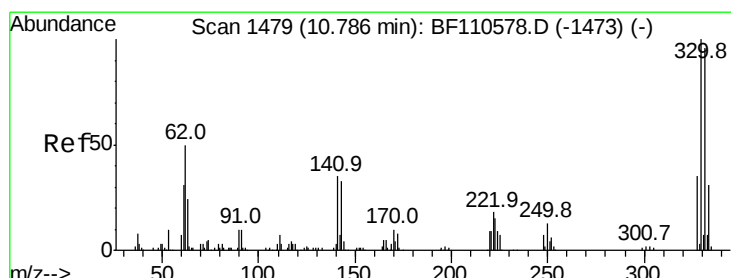
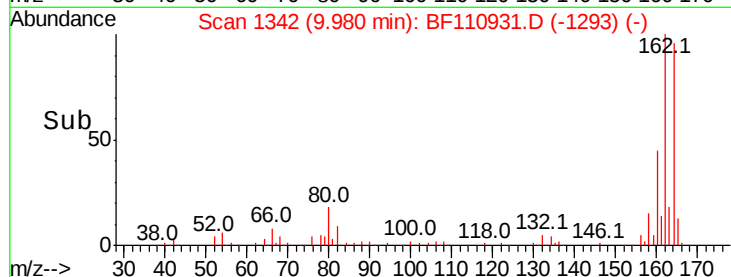
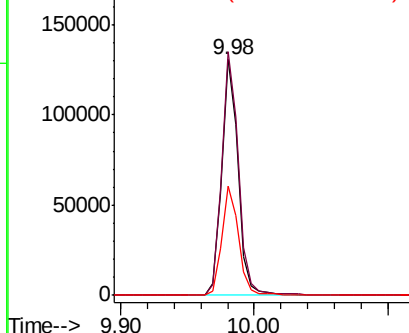
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.3	83.0	124.6
160	46.3	37.0	55.6

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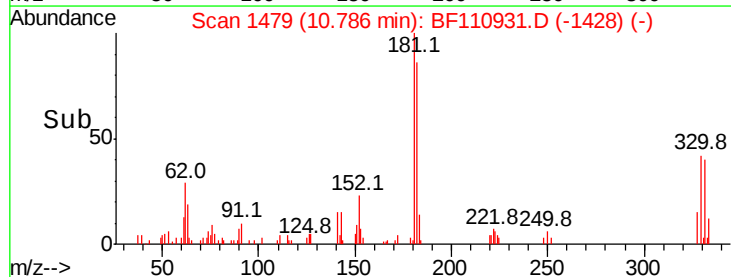
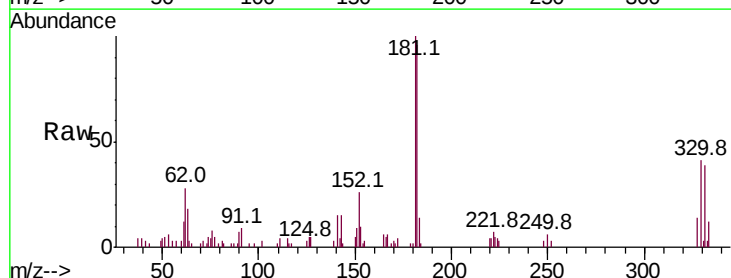
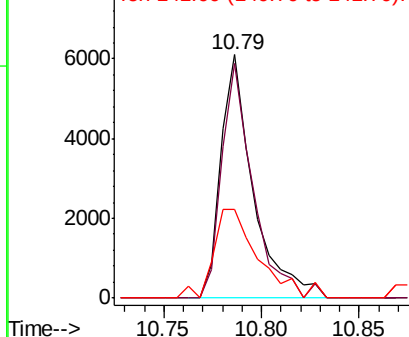
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

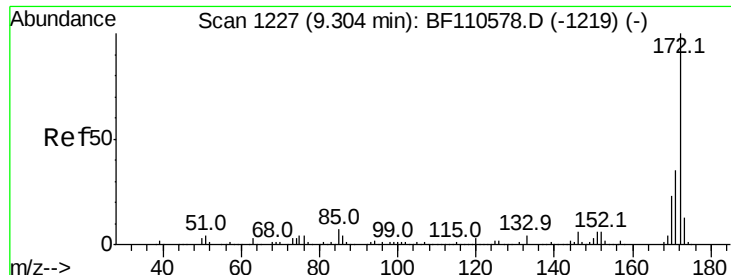


#42
2,4,6-Tribromophenol
Concen: 6.128 ng
RT: 10.79 min Scan# 1479
Delta R.T. 0.00 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.2	77.1	115.7
141	50.9	27.0	40.4#

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





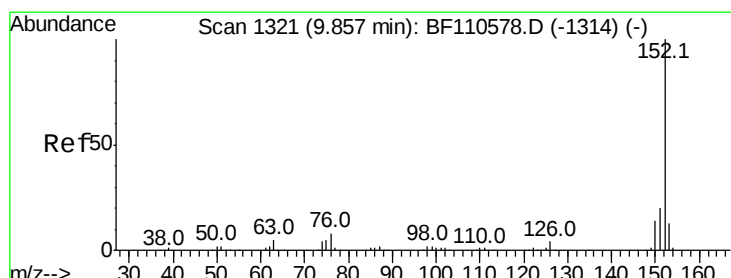
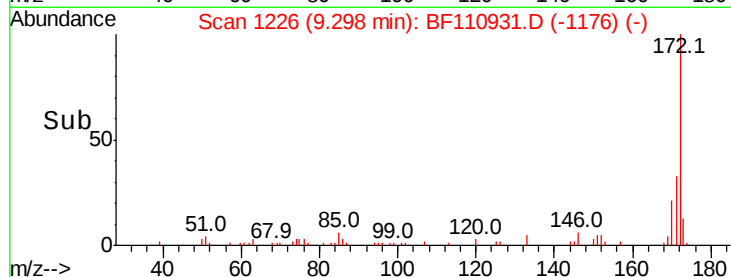
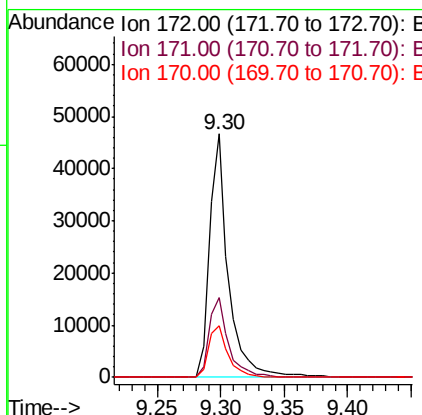
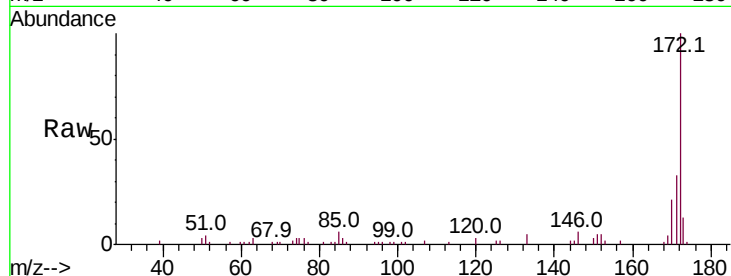
#45
2-Fluorobiphenyl
Concen: 6.049 ng
RT: 9.30 min Scan# 1226
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
172	100		
171	32.6	28.6	43.0
170	21.2	19.7	29.5

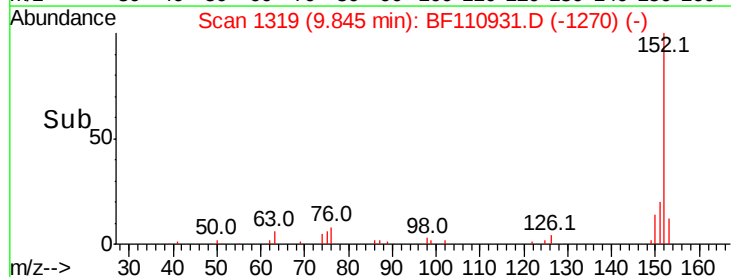
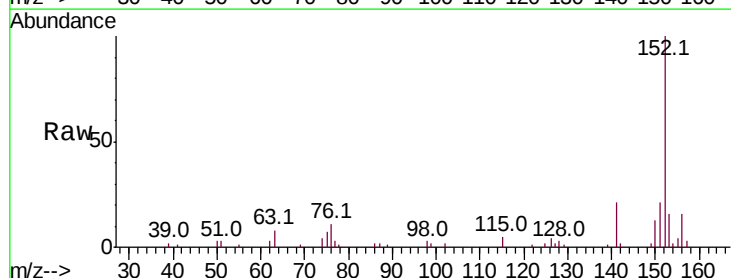
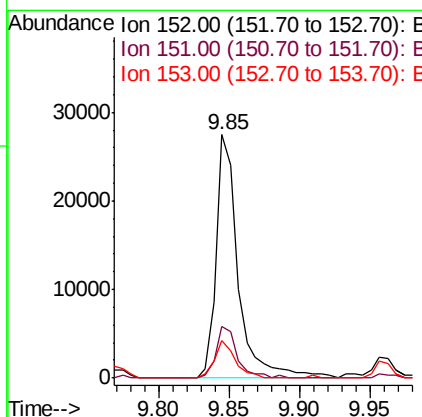
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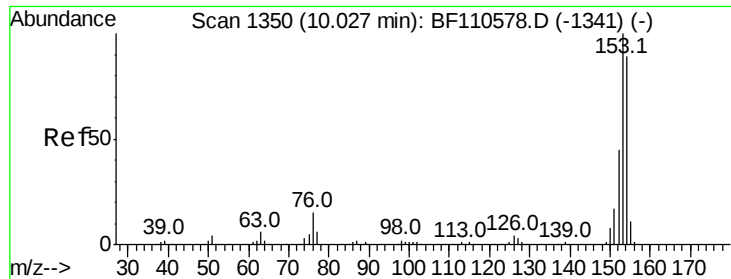
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#49
Acenaphthylene
Concen: 2.714 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.8	23.8
153	15.6	10.4	15.6





#52

Acenaphthene

Concen: 10.880 ng

RT: 10.02 min Scan# 1348

Delta R.T. -0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Instrument :

BNA_F

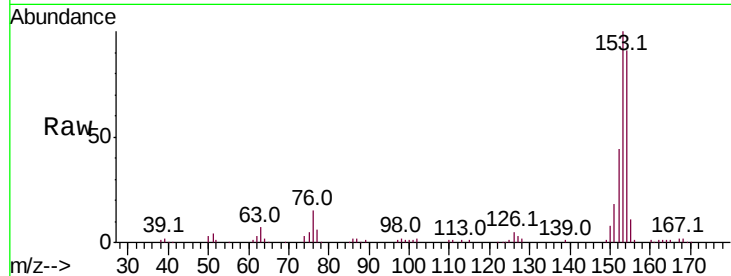
ClientSampleId :

NB-08-112018

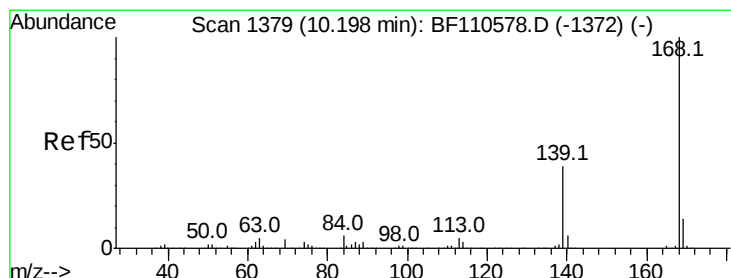
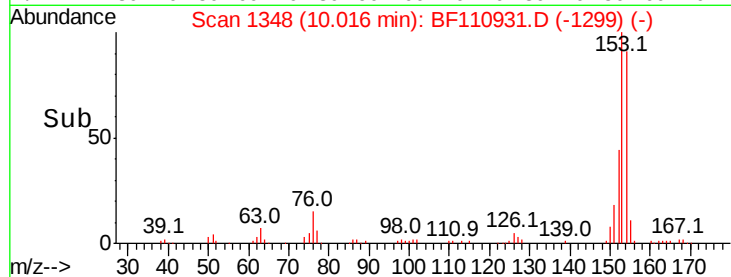
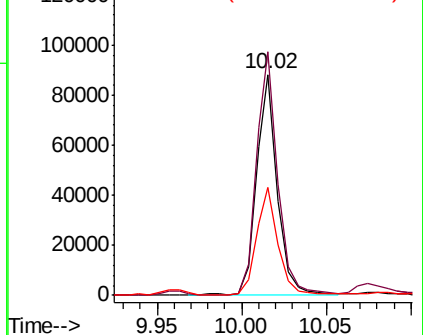
Tot Ion:	154	Resp:	75928
Ion Ratio	Lower	Upper	
154	100		
153	110.2	90.1	135.1
152	48.9	43.4	65.2

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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: 13.882 ng

RT: 10.19 min Scan# 1378

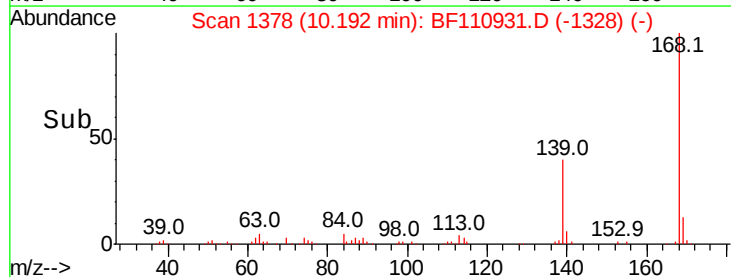
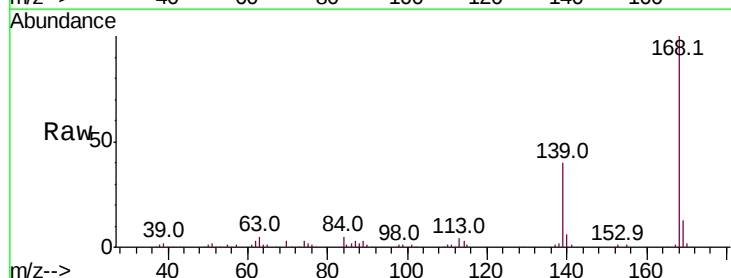
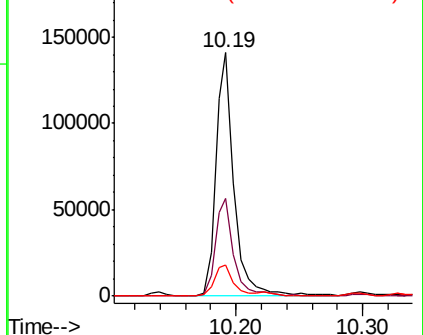
Delta R.T. -0.01 min

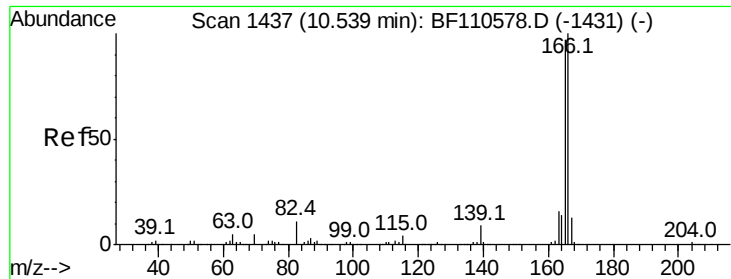
Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Tgt Ion:	168	Resp:	141729
Ion Ratio	Lower	Upper	
168	100		
139	40.2	33.0	49.6
169	12.6	11.3	16.9

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





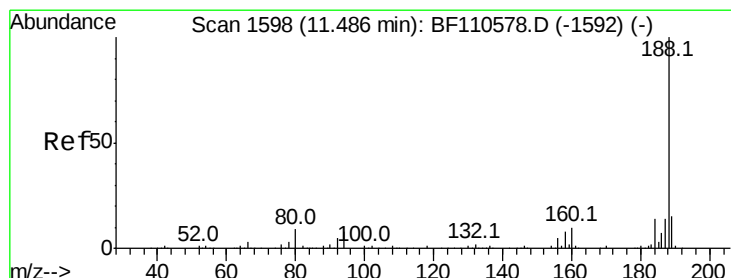
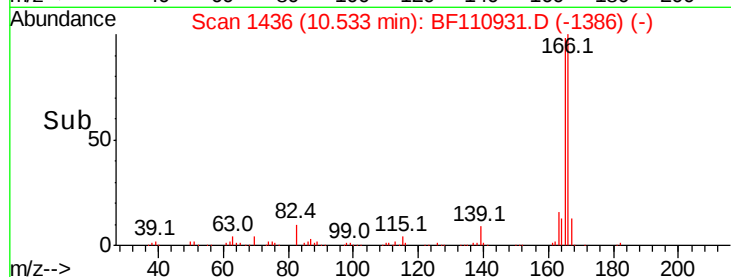
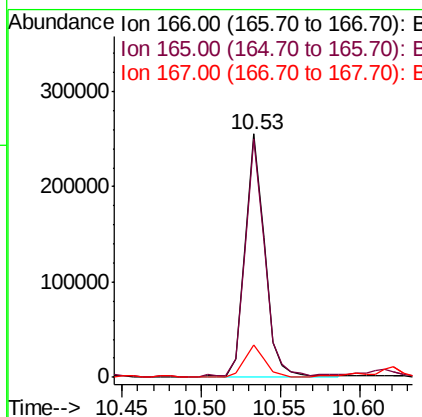
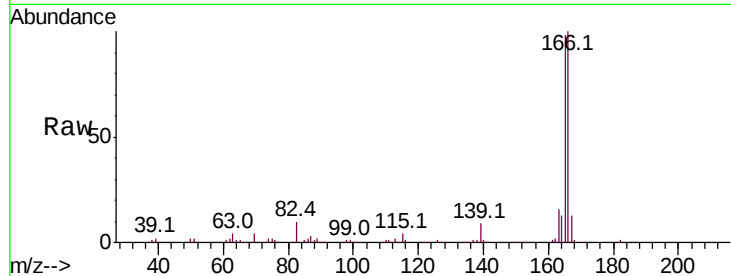
#58
 Fluorene
 Concen: 27.946 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.01 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.6	117.8
167	13.4	10.8	16.2

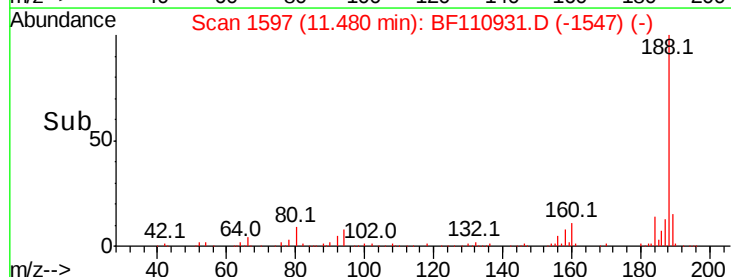
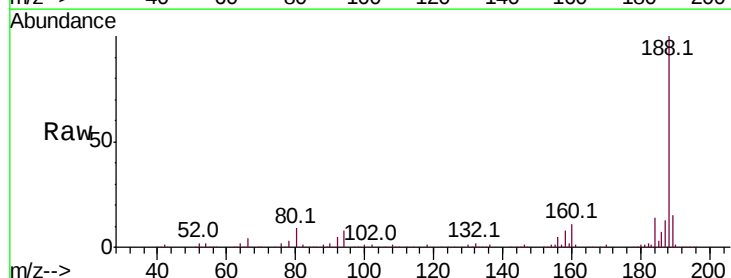
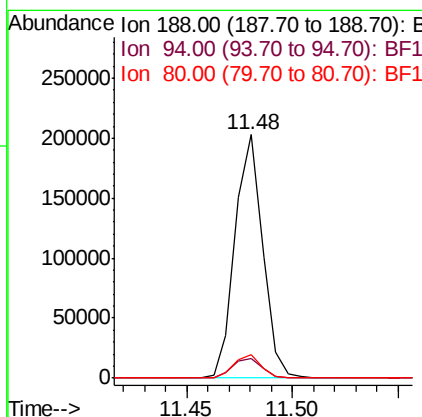
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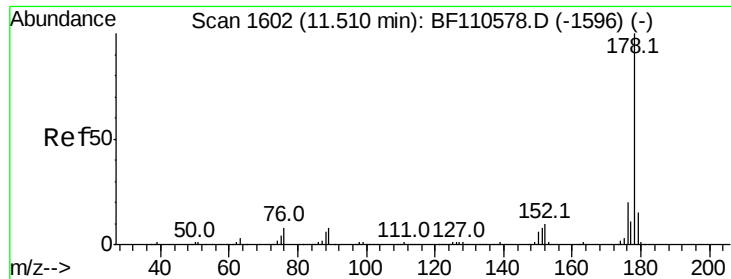
mohammad
 11/23/2018 11:49:05 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	7.2	10.8
80	9.5	7.9	11.9





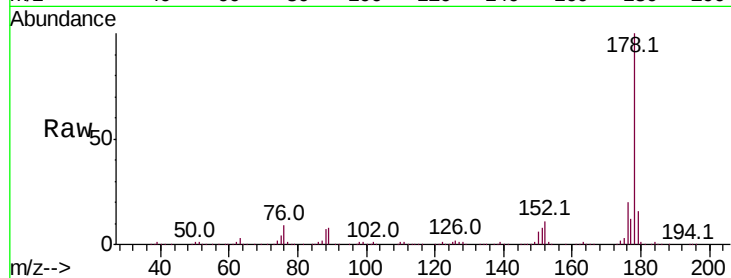
#71
Phenanthrene
Concen: 109.351 ng
RT: 11.51 min Scan# 1602
Delta R.T. 0.00 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.7	12.5	18.7

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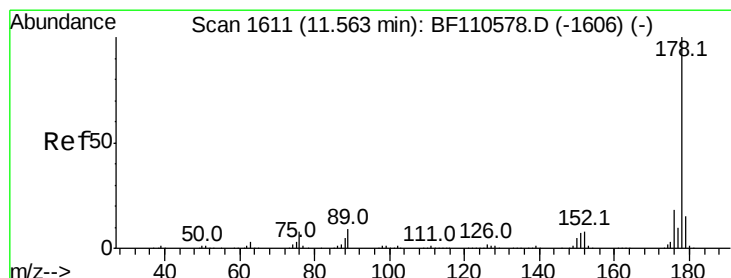
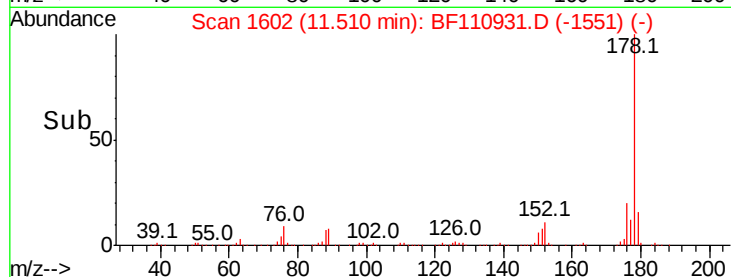
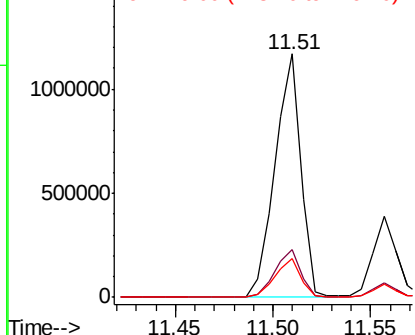


Abundance

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



#72
Anthracene
Concen: 34.070 ng
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

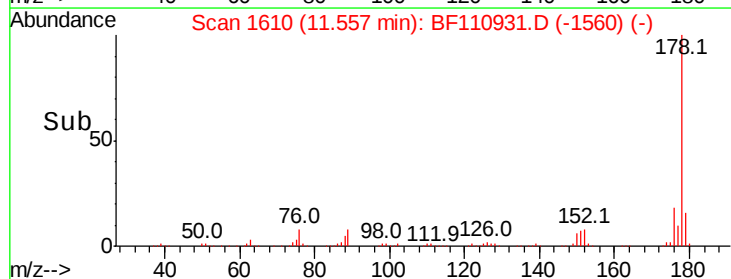
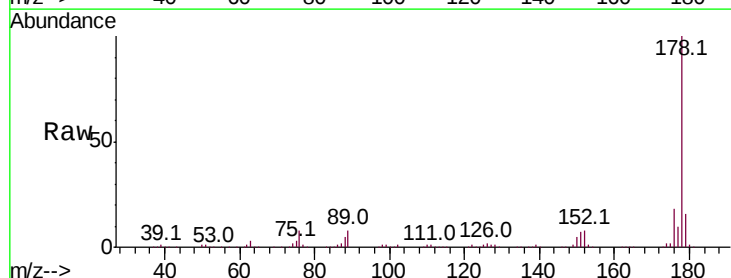
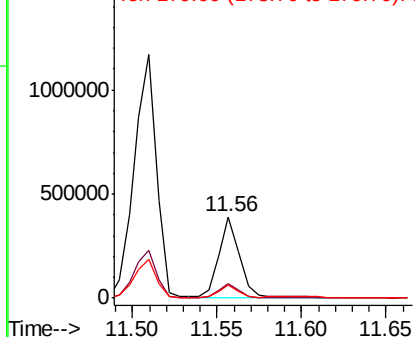
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.7	12.6	18.8

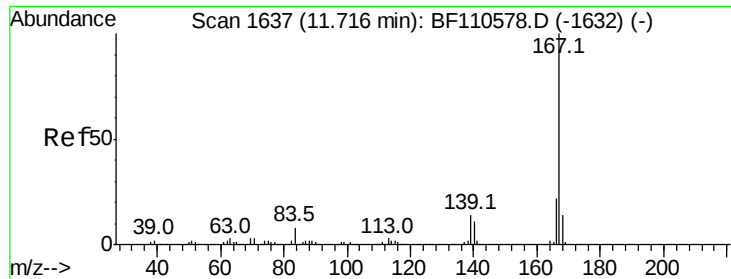
Abundance

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





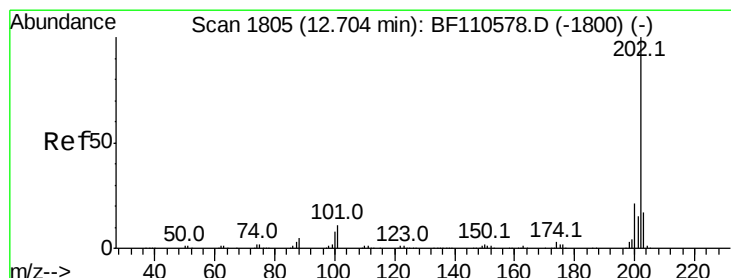
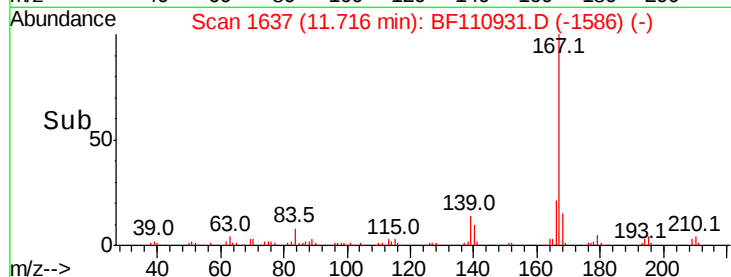
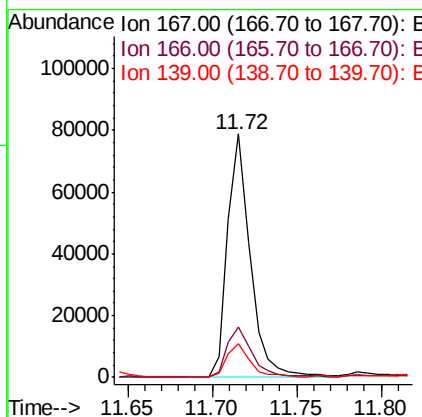
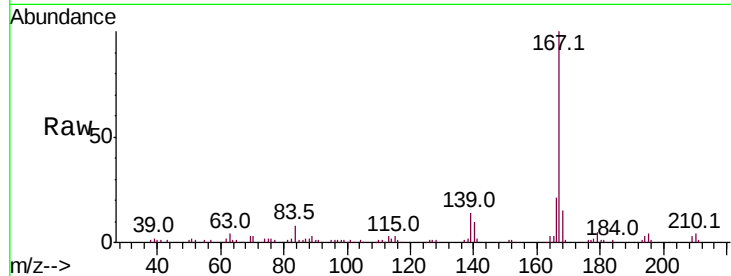
#73
 Carbazole
 Concen: 7.783 ng
 RT: 11.72 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.4	26.0
139	13.8	10.9	16.3

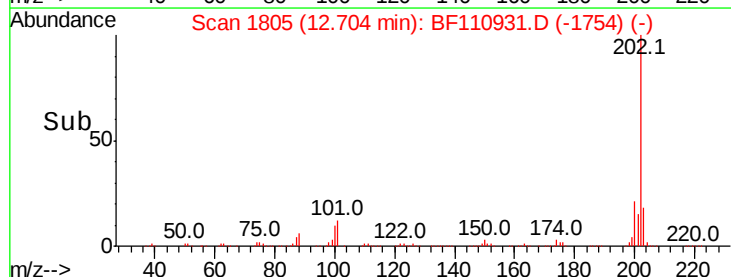
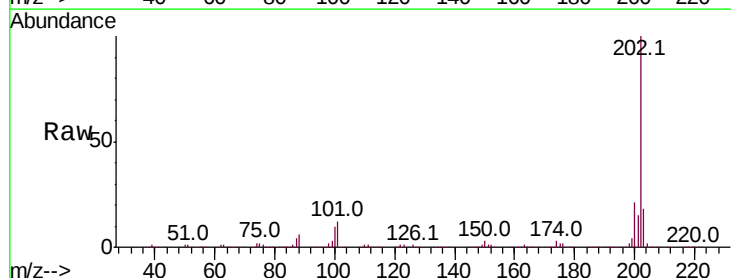
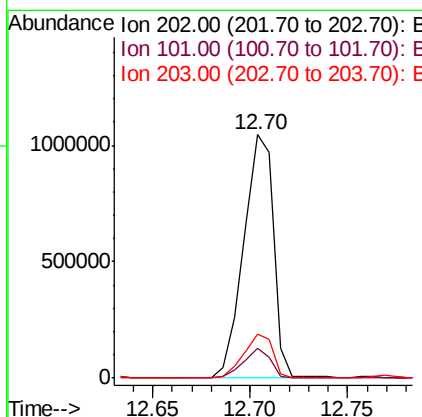
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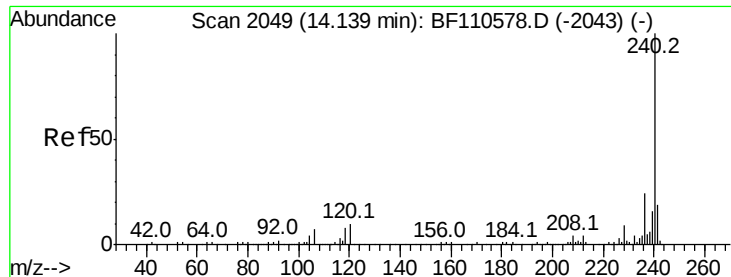
mohammad
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#75
 Fluoranthene
 Concen: 112.516 ng
 RT: 12.70 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: BF110931.D
 Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.4
203	17.9	0.0	37.7





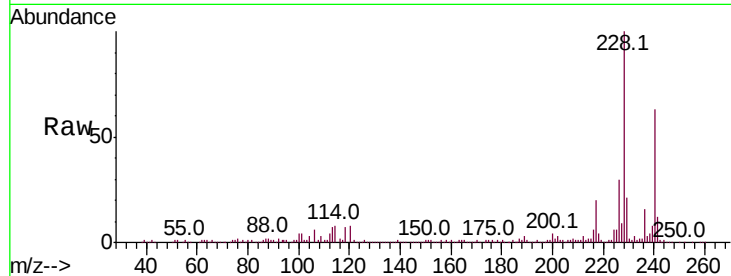
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.3	8.3	12.5
236	25.9	21.2	31.8

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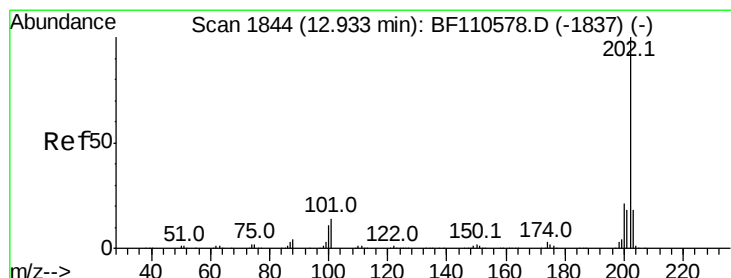
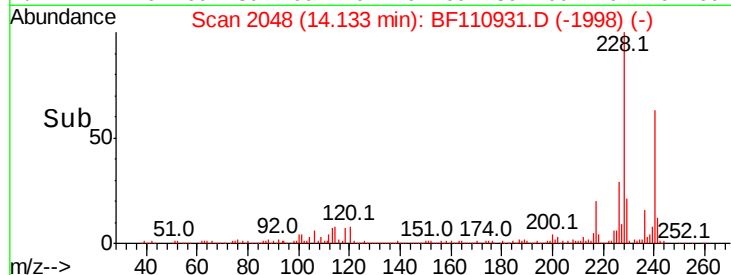
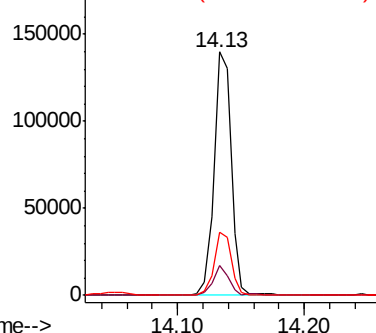


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 91.131 ng
RT: 12.94 min Scan# 1845
Delta R.T. 0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

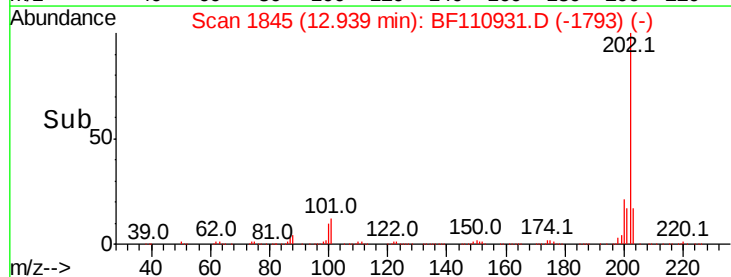
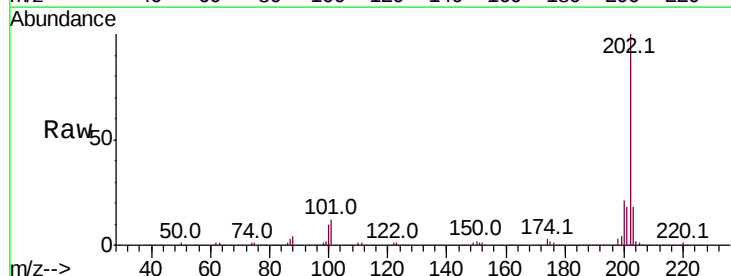
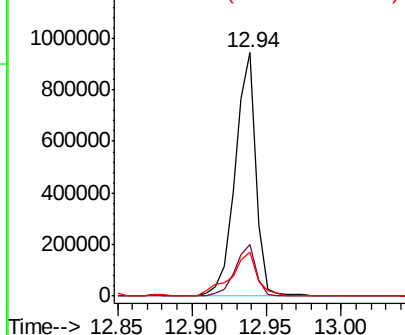
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.8	26.6
203	17.9	14.2	21.4

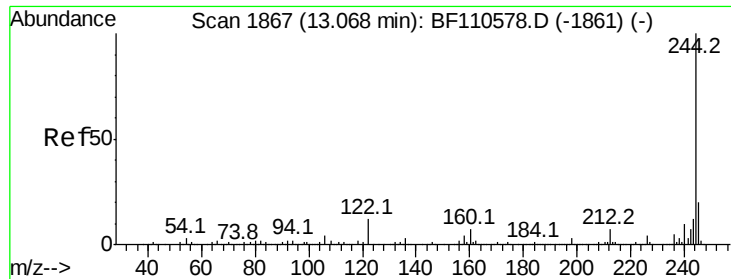
Abundance

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: 4.945 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Instrument :

BNA_F

ClientSampleId :

NB-08-112018

Tot Ion:244 Resp: 34578

Ion Ratio Lower Upper

244 100

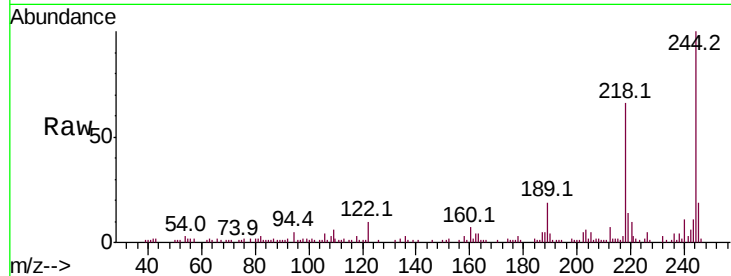
212 7.5 5.8 8.8

122 9.9 8.7 13.1

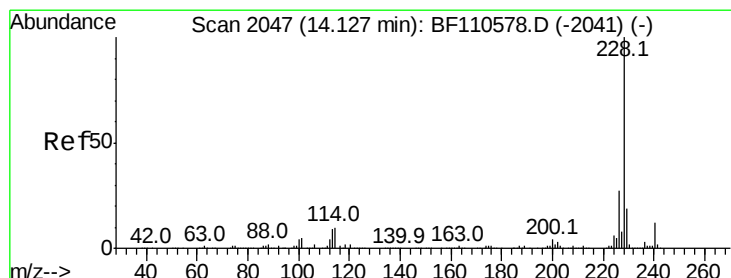
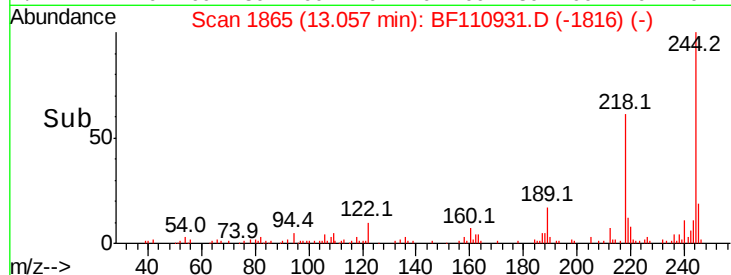
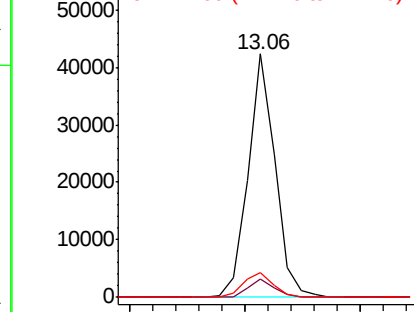
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 65.426 ng

RT: 14.13 min Scan# 2047

Delta R.T. 0.00 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Tgt Ion:228 Resp: 512087

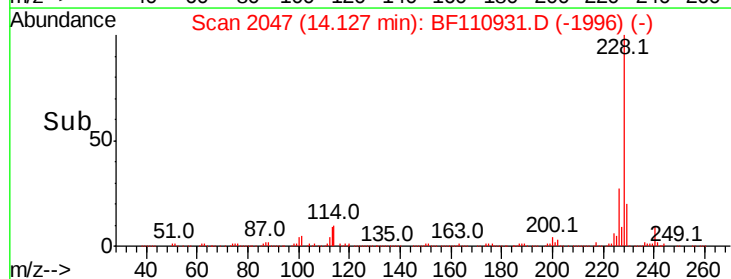
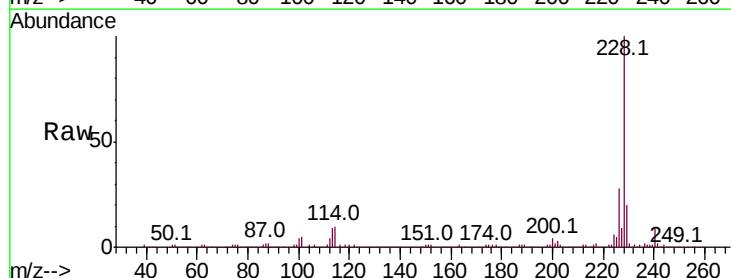
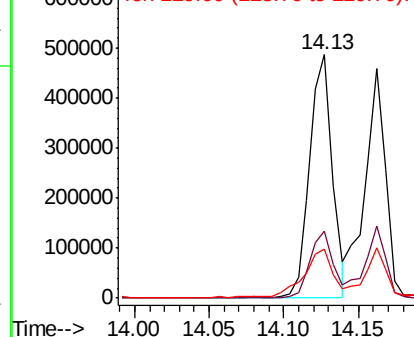
Ion Ratio Lower Upper

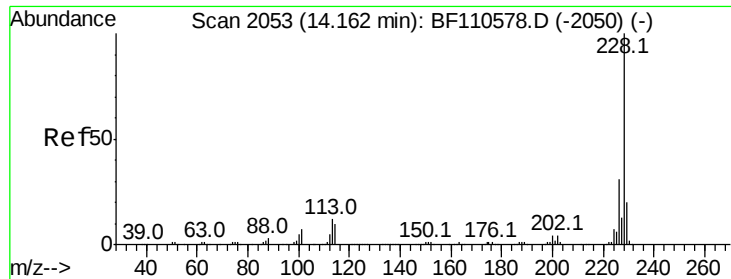
228 100

226 27.6 22.1 33.1

229 20.4 15.6 23.4

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





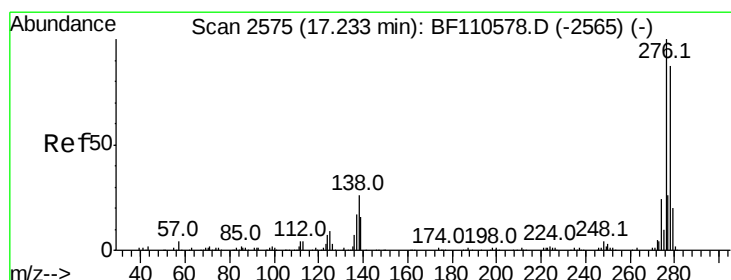
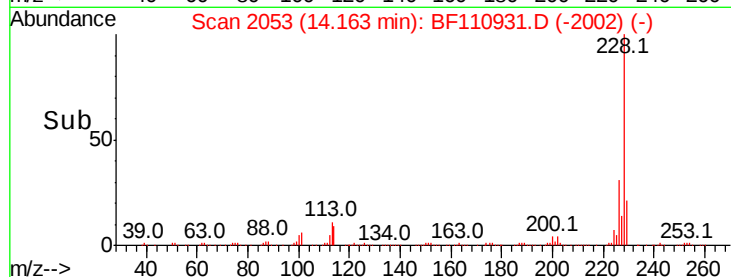
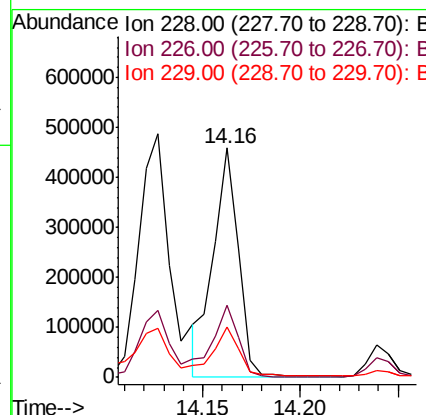
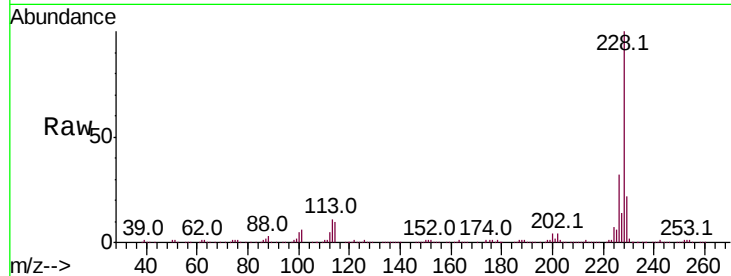
#83
Chrysene
Concen: 54.761 ng
RT: 14.16 min Scan# 2053
Delta R.T. 0.00 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.7	37.1
229	21.7	15.9	23.9

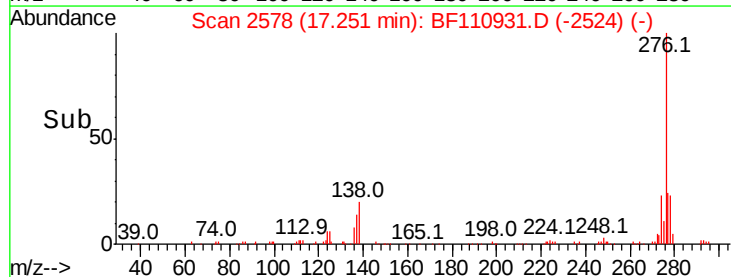
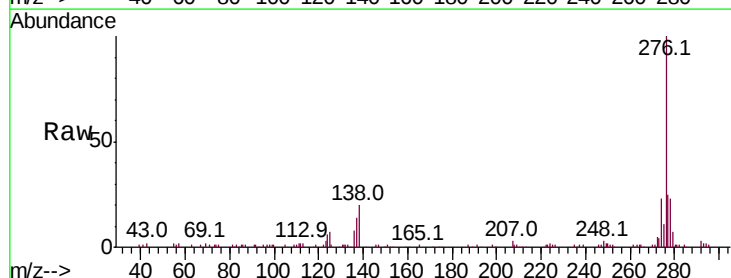
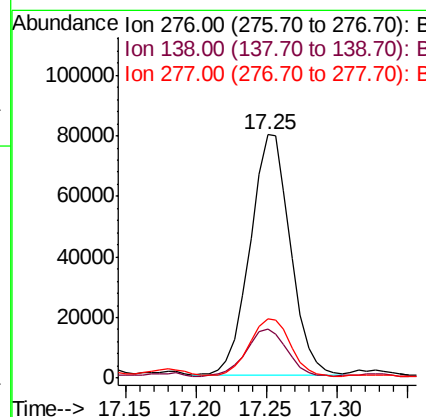
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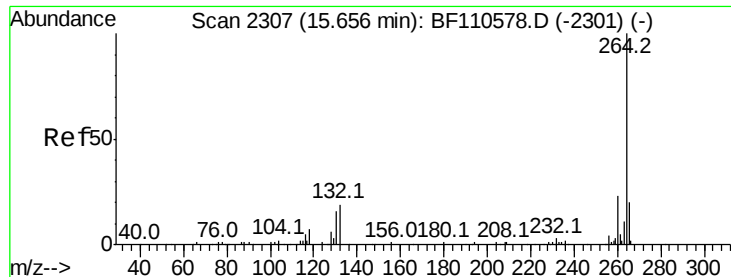
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 29.770 ng
RT: 17.25 min Scan# 2578
Delta R.T. 0.02 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.5	27.7
277	25.1	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2309

Delta R.T. 0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Instrument :

BNA_F

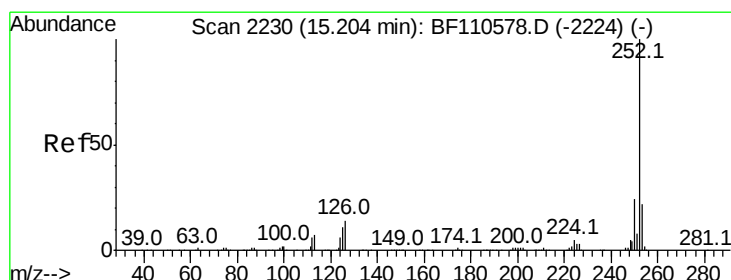
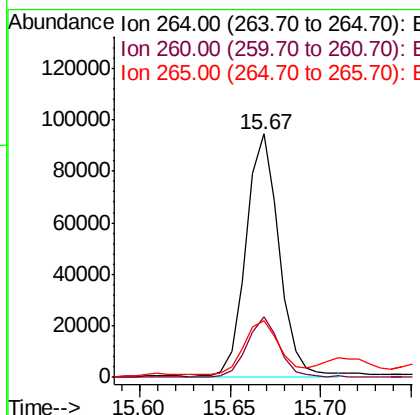
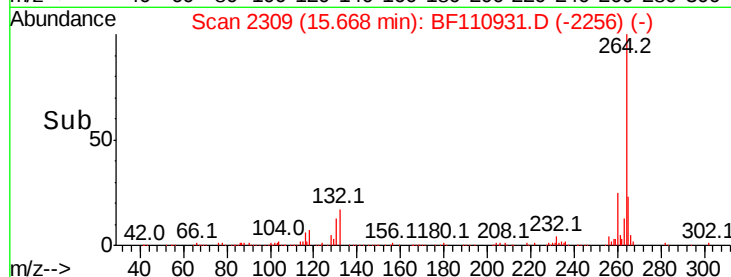
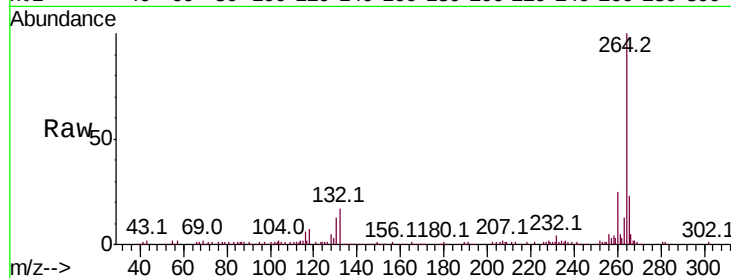
ClientSampleId :

NB-08-112018

Tot Ion:	264	Resp:	118623
Ion Ratio	Lower	Upper	
264	100		
260	24.8	18.7	28.1
265	23.2	16.7	25.1

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#88

Benzo(b)fluoranthene

Concen: 76.336 ng m

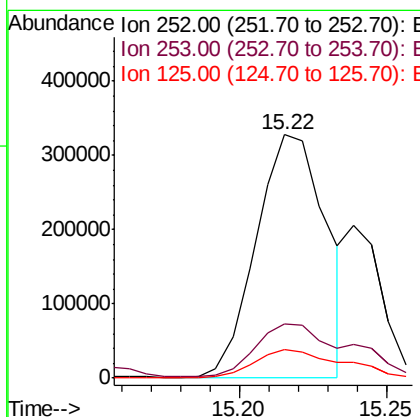
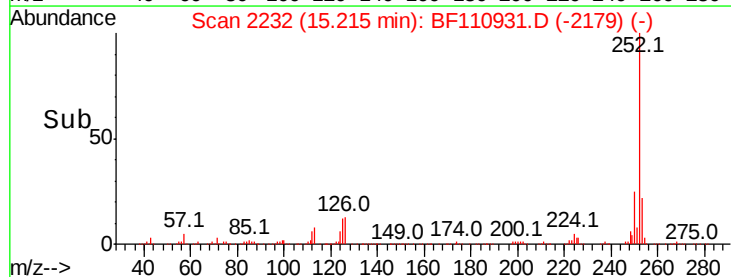
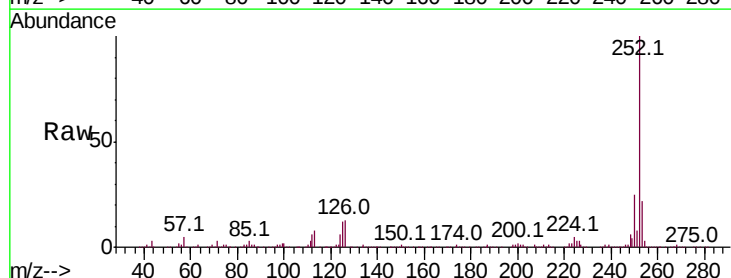
RT: 15.22 min Scan# 2232

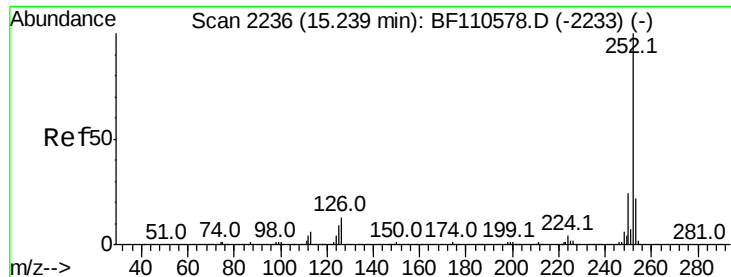
Delta R.T. 0.01 min

Lab File: BF110931.D

Acq: 21 Nov 2018 16:32

Tgt Ion:	252	Resp:	541712
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.2	25.8
125	11.7	8.2	12.4





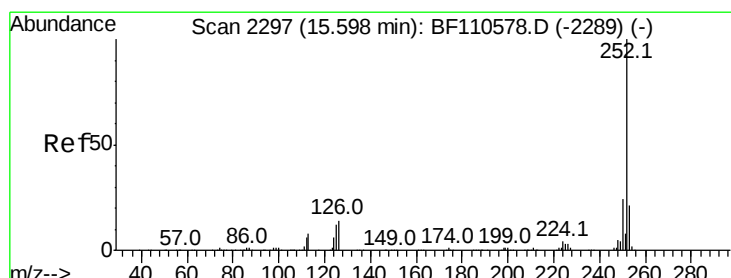
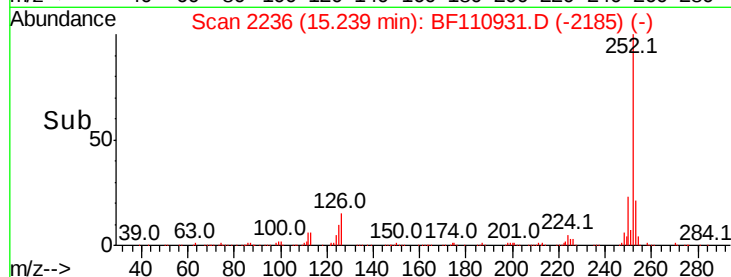
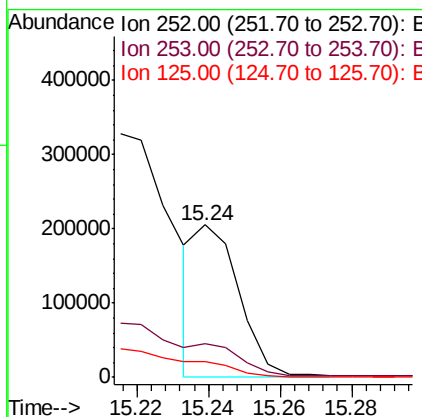
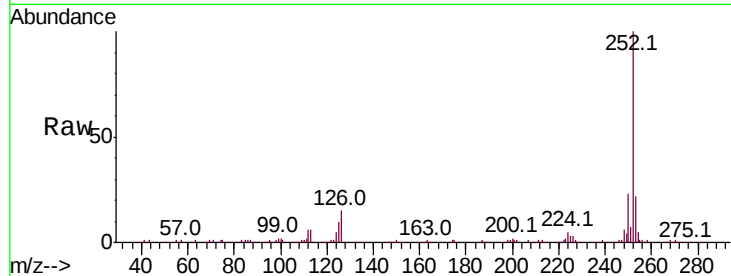
#89
Benzo(k)fluoranthene
Concen: 24.726 ng m
RT: 15.24 min Scan# 2236
Delta R.T. 0.00 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.2	25.8
125	10.2	7.4	11.0

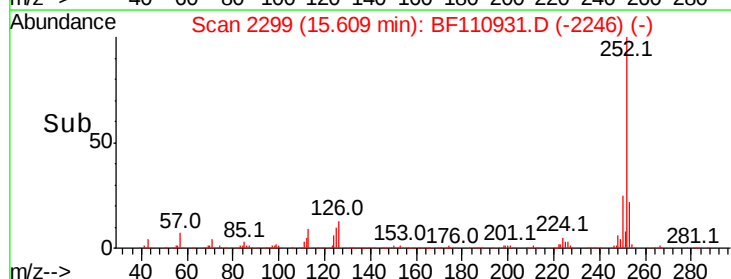
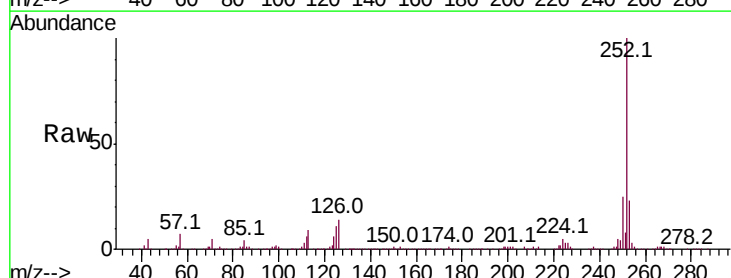
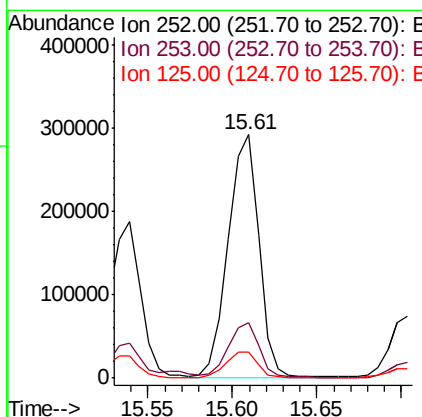
Manual Integrations
APPROVED

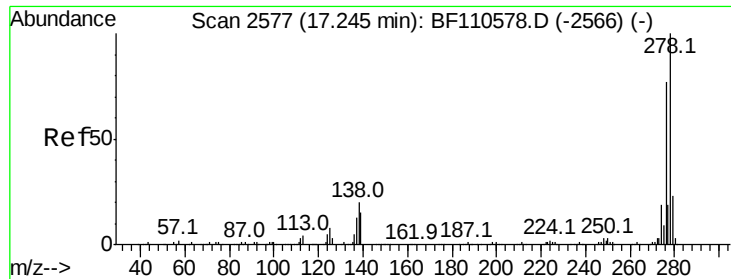
mohammad
11/23/2018 11:49:05 AM



#90
Benzo(a)pyrene
Concen: 57.338 ng
RT: 15.61 min Scan# 2299
Delta R.T. 0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	10.5	9.0	13.6





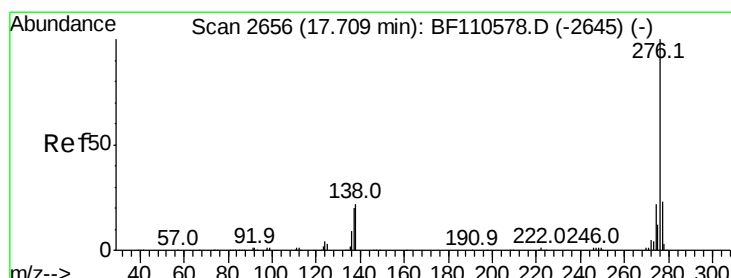
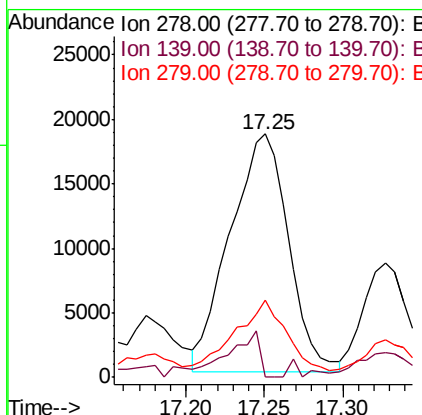
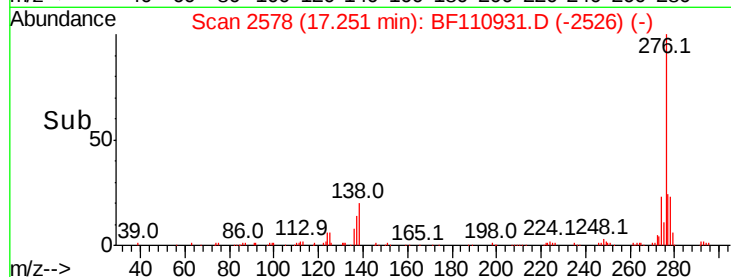
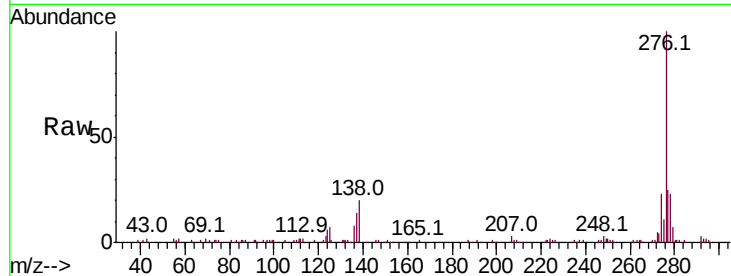
#91
Dibenzo(a,h)anthracene
Concen: 8.759 ng m
RT: 17.25 min Scan# 2578
Delta R.T. 0.01 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Instrument :
BNA_F
ClientSampleId :
NB-08-112018

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	31.5	19.0	28.4#

Manual Integrations
APPROVED

mohammad
11/23/2018 11:49:05 AM



#92
Benzo(g,h,i)perylene
Concen: 25.961 ng
RT: 17.74 min Scan# 2661
Delta R.T. 0.03 min
Lab File: BF110931.D
Acq: 21 Nov 2018 16:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.8	28.2
138	22.3	16.0	24.0

