

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112618\
 Data File : BF110967.D
 Acq On : 26 Nov 2018 16:53
 Operator : JU/SJ
 Sample : J5765-03DL 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018DL

Manual Integrations
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 11/27/2018 11:47:37 AM

Quant Time: Nov 27 10:35:55 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 26 15:26:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	72943	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	327779	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	160006	20.00	ng	0.00
64) Phenanthrene-d10	11.47	188	277703	20.00	ng	0.00
76) Chrysene-d12	14.13	240	164847	20.00	ng	0.00
87) Perylene-d12	15.66	264	169402	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	16374m	3.72	ng	0.04
7) Phenol-d6	6.60	99	23203m	4.05	ng	0.03
23) Nitrobenzene-d5	7.53	82	13368	2.33	ng	0.02
42) 2,4,6-Tribromophenol	10.78	330	5398	3.40	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	29234	2.65	ng	0.00
79) Terphenyl-d14	13.05	244	22639	2.67	ng	0.00
Target Compounds						
31) Naphthalene	8.24	128	75861	4.937	ng	98
37) 2-Methylnaphthalene	8.94	142	29556	2.912	ng	99
38) 1-Methylnaphthalene	9.04	142	27008	2.736	ng	# 100
52) Acenaphthene	10.01	154	46862	4.806	ng	97
55) Dibenzofuran	10.19	168	89877	6.319	ng	97
58) Fluorene	10.53	166	141851	12.818	ng	99
71) Phenanthrene	11.50	178	777675	52.875	ng	99
72) Anthracene	11.55	178	223598	14.928	ng	99
73) Carbazole	11.72	167	50181	3.452	ng	99
75) Fluoranthene	12.70	202	780500	51.632	ng	99
78) Pyrene	12.93	202	630809	52.393	ng	99
81) Benzo(a)anthracene	14.12	228	286774	29.466	ng	99
83) Chrysene	14.16	228	253105m	26.418	ng	
86) Indeno(1,2,3-cd)pyrene	17.25	276	114255	16.614	ng	97
88) Benzo(b)fluoranthene	15.21	252	312474m	31.399	ng	
89) Benzo(k)fluoranthene	15.23	252	98006m	9.568	ng	
90) Benzo(a)pyrene	15.60	252	231832	25.027	ng	99
91) Dibenzo(a,h)anthracene	17.25	278	29738m	3.891	ng	
92) Benzo(a,h,i)perylene	17.73	276	100056	13.577	ng	96

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

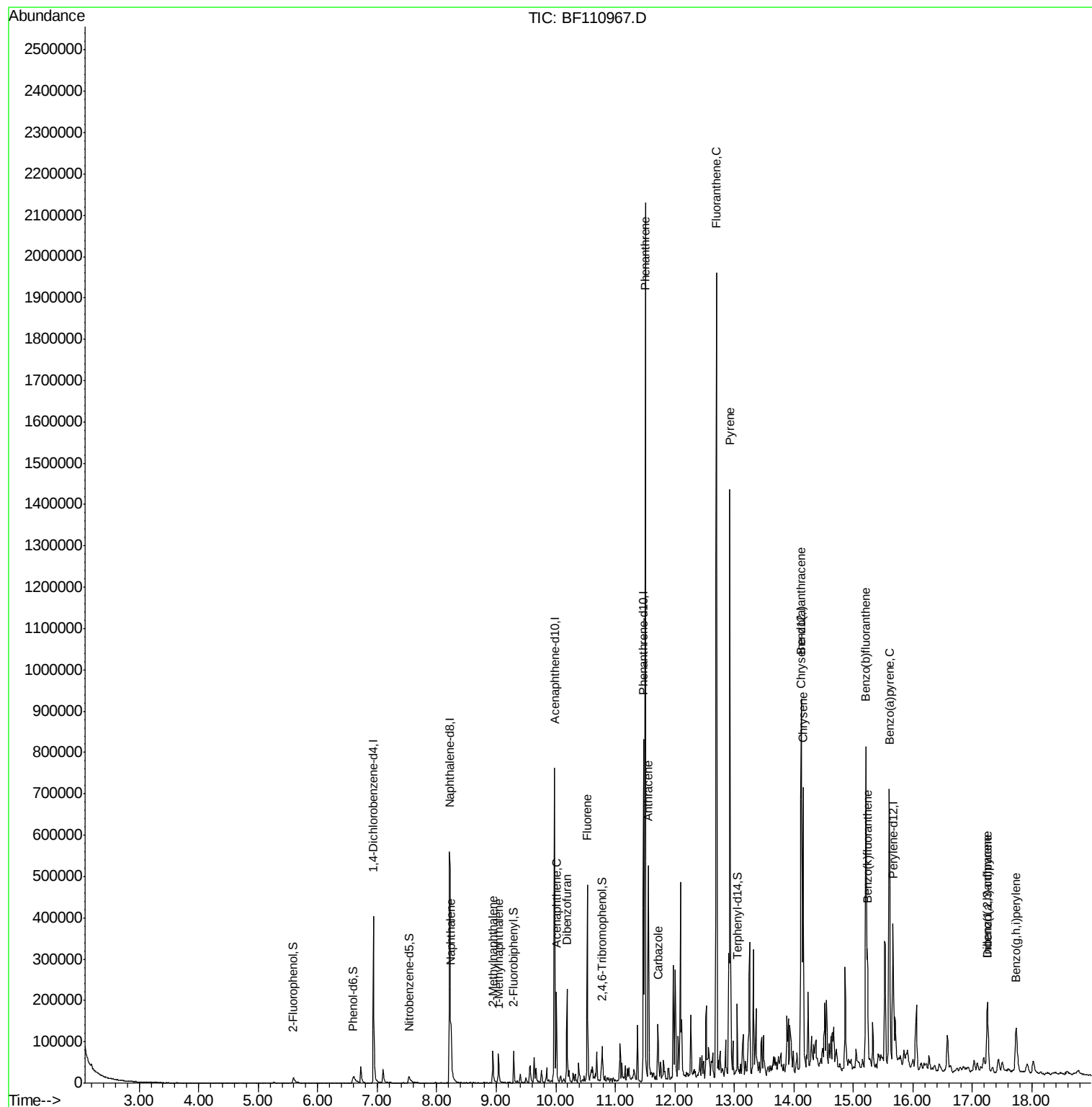
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112618\
Data File : BF110967.D
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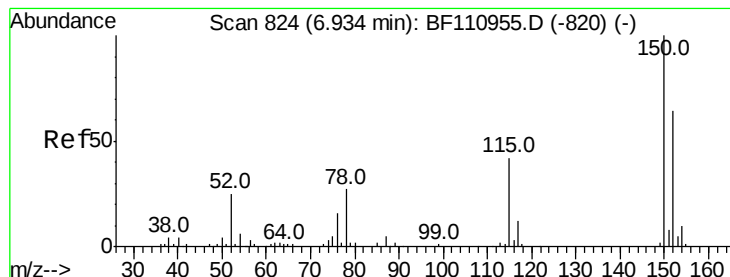
Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

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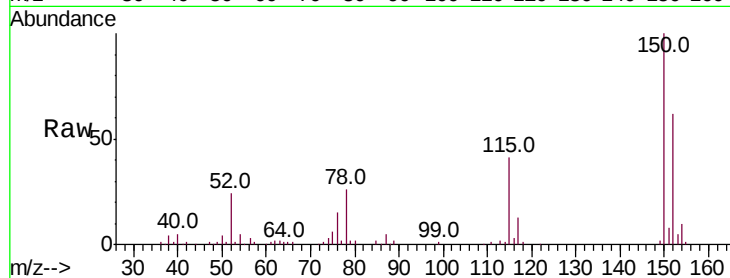
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.93 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BF110967.D
 Acq: 26 Nov 2018 16:53

Instrument :
 BNA_F
 ClientSampleId :
 NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.0	122.7	184.1
115	66.4	49.1	73.7

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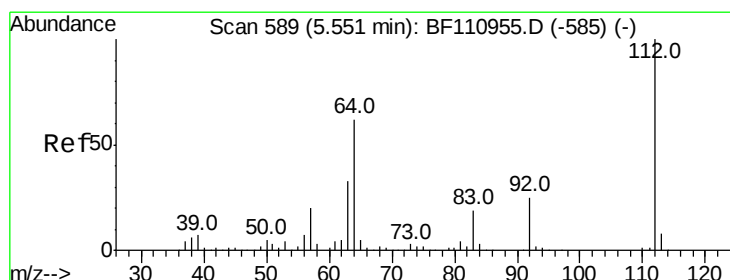
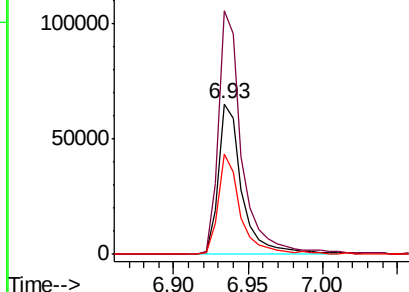
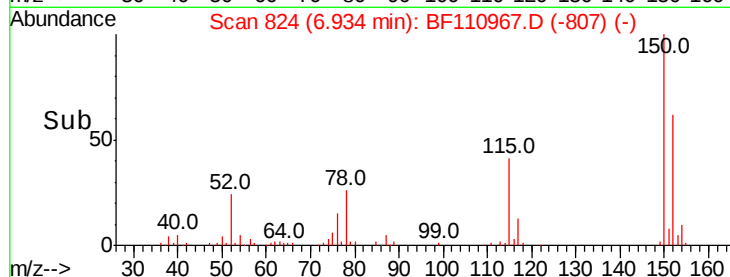


Abundance

Ion 152.00 (151.70 to 152.70): E

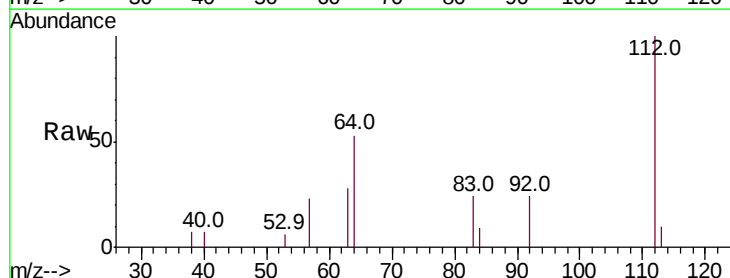
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 3.723 ng m
 RT: 5.59 min Scan# 595
 Delta R.T. 0.04 min
 Lab File: BF110967.D
 Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	44.1	66.1
63	27.6	23.7	35.5

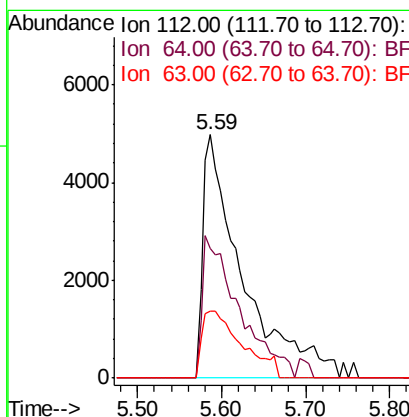
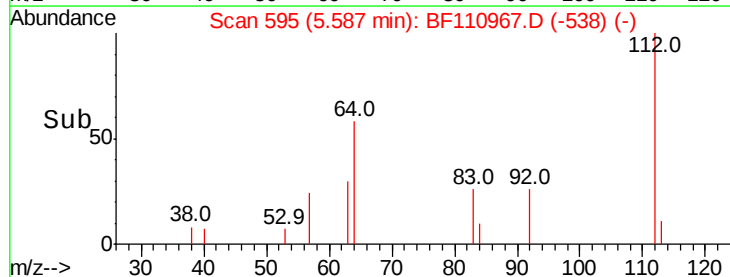


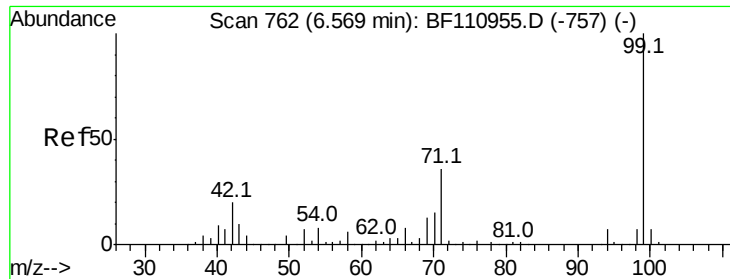
Abundance

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





#7

Phenol-d6

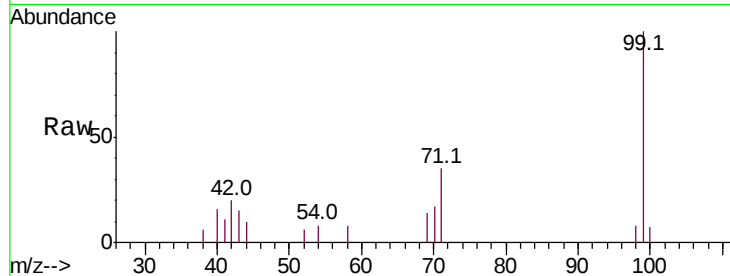
Concen: 4.048 ng/mL
 RT: 6.60 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: BF110967.D
 Acq: 26 Nov 2018 16:53

Instrument :
 BNA_F
 ClientSampleID :
 NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
99	100		
42	20.0	15.8	23.6
71	34.6	28.0	42.0

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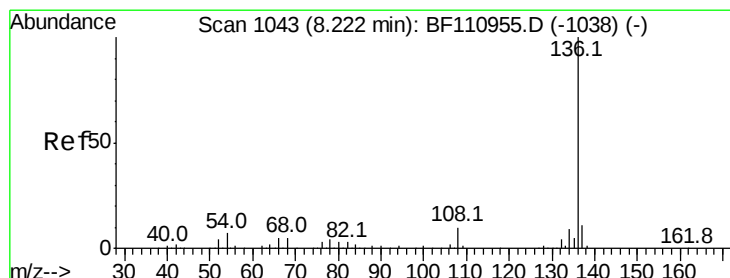
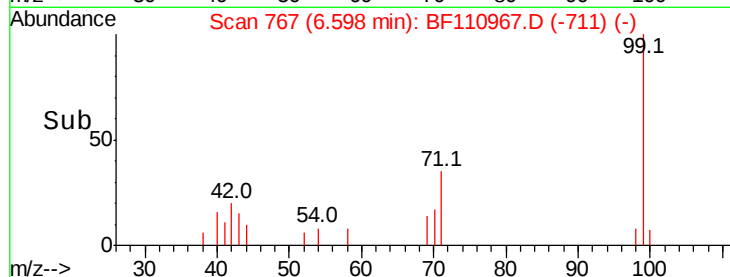
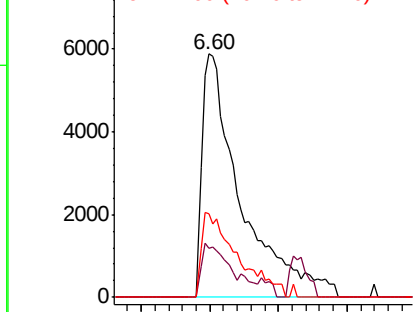


Abundance

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/mL
 RT: 8.22 min Scan# 1042
 Delta R.T. -0.01 min
 Lab File: BF110967.D
 Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	8.5	5.4	8.2#
68	5.1	4.2	6.2

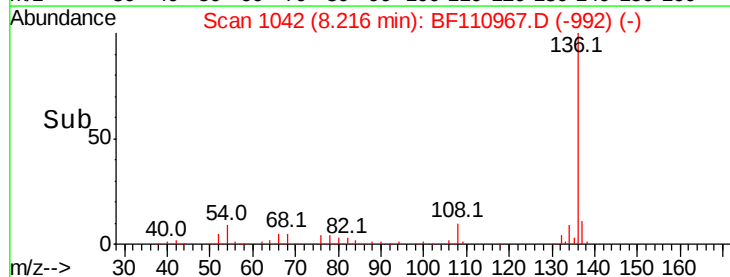
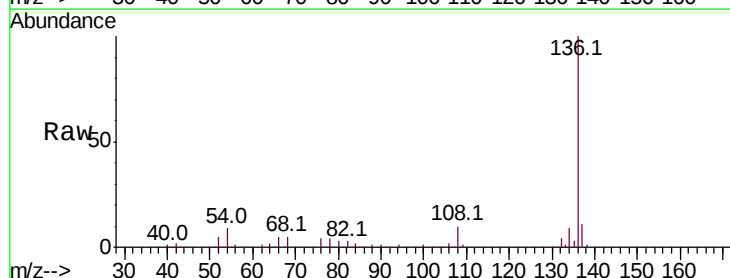
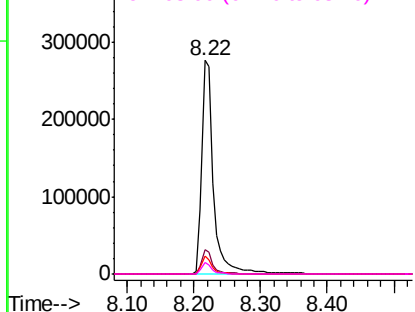
Abundance

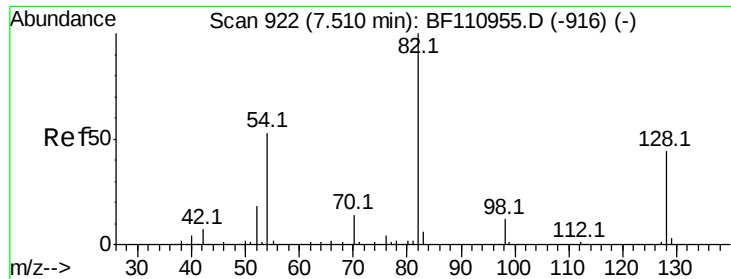
Ion 136.00 (135.70 to 136.70): E

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





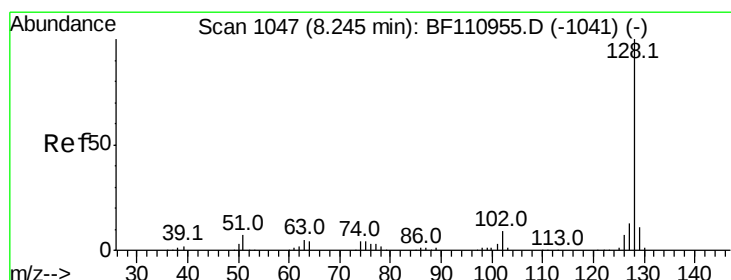
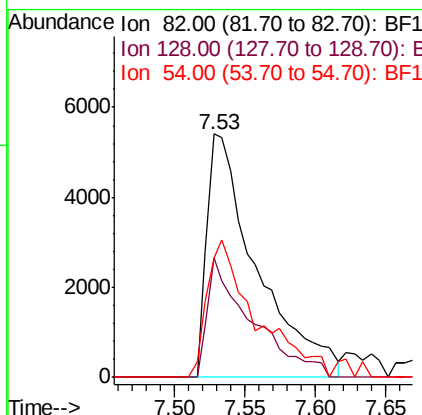
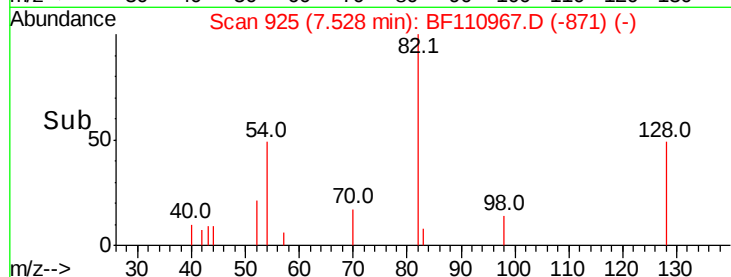
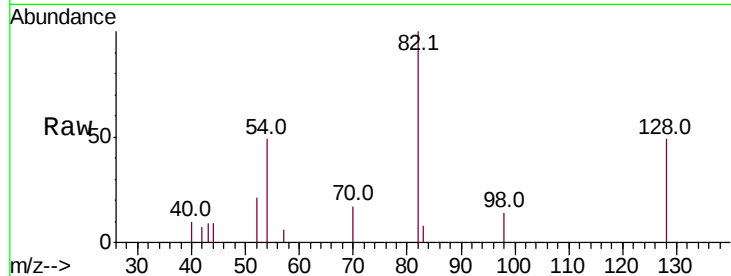
#23
Nitrobenzene-d5
Concen: 2.334 ng
RT: 7.53 min Scan# 925
Delta R.T. 0.02 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.2	34.2	51.2
54	49.2	38.6	58.0

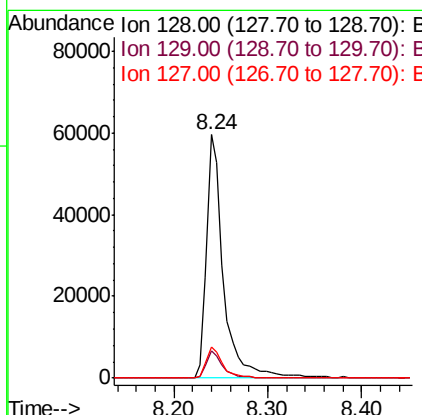
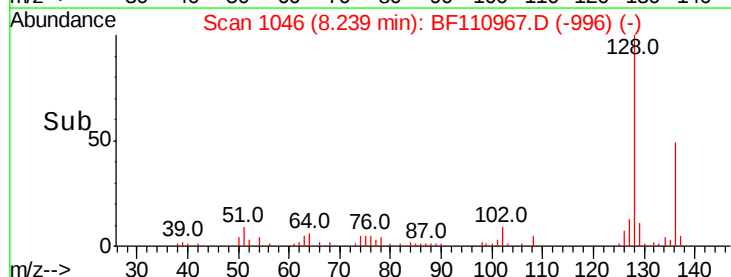
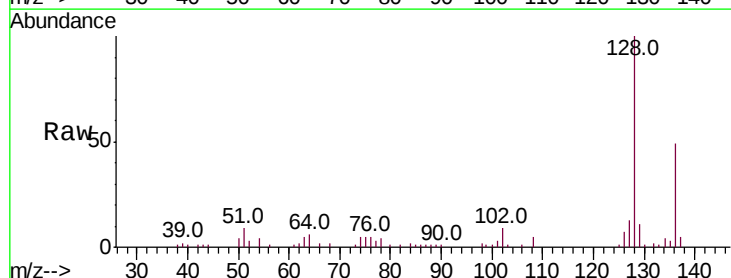
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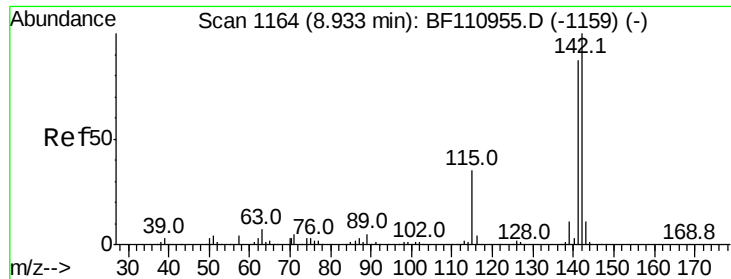
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#31
Naphthalene
Concen: 4.937 ng
RT: 8.24 min Scan# 1046
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	12.6	10.8	16.2





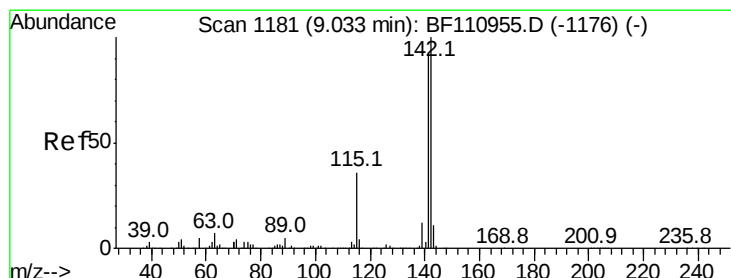
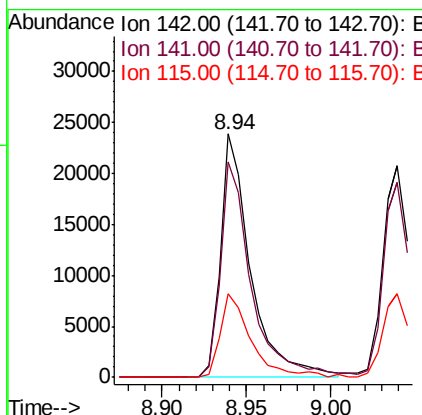
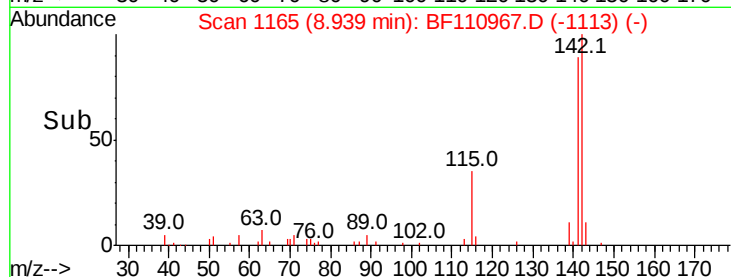
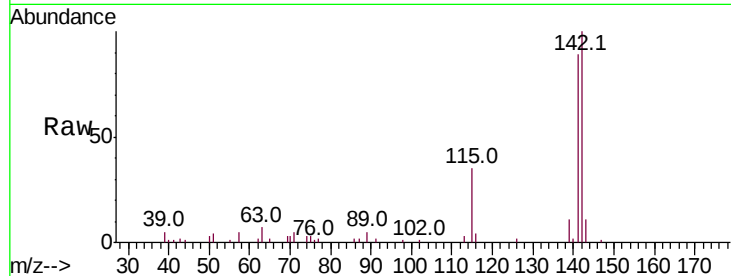
#37
2-Methylnaphthalene
Concen: 2.912 ng
RT: 8.94 min Scan# 1165
Delta R.T. 0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.4	107.2
115	34.6	28.7	43.1

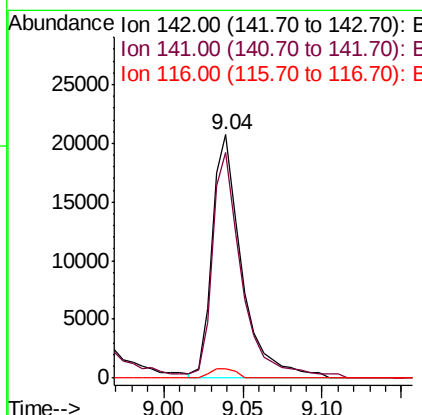
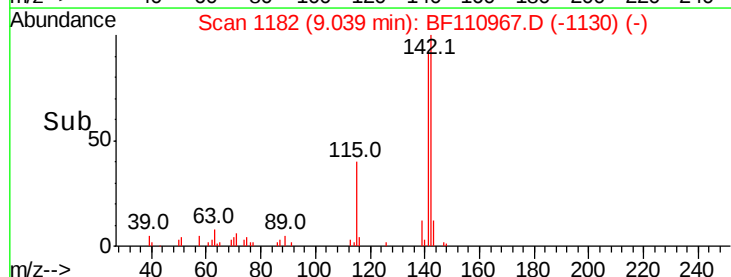
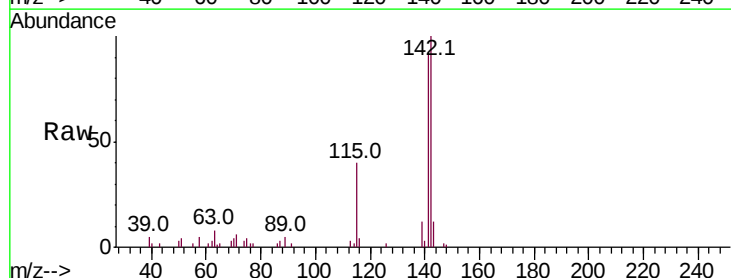
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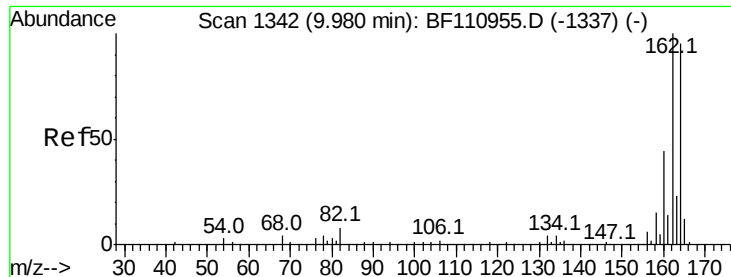
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#38
1-Methylnaphthalene
Concen: 2.736 ng
RT: 9.04 min Scan# 1182
Delta R.T. 0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	74.2	111.4
116	4.0	2.6	4.0#





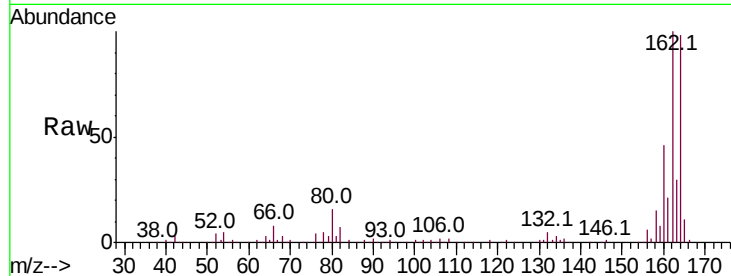
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

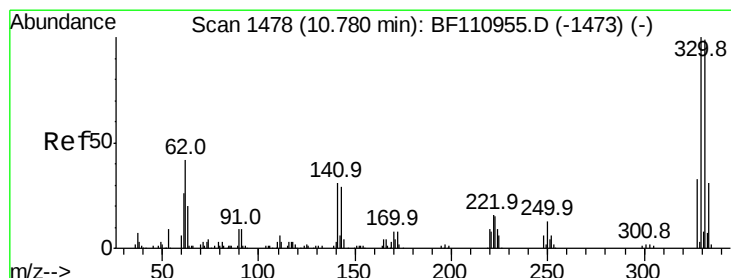
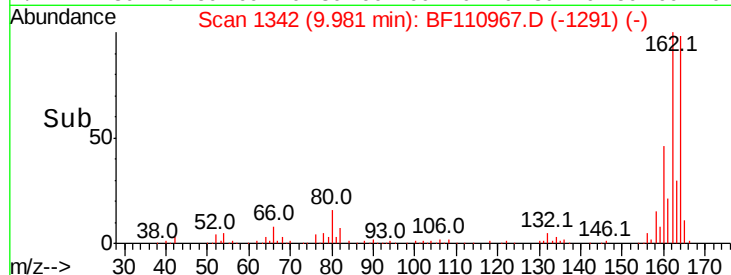
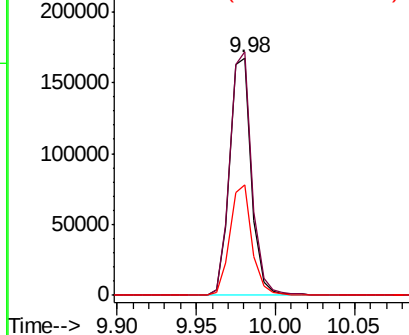
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.5	83.0	124.6
160	46.7	37.0	55.6

Manual Integrations
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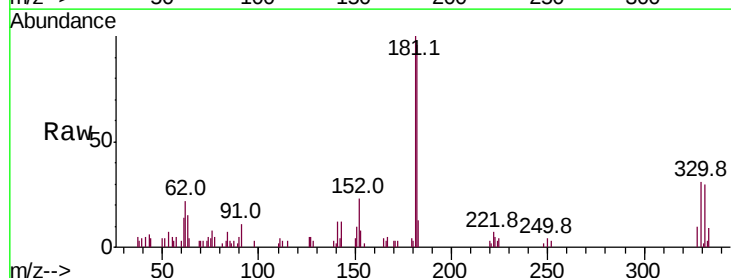


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

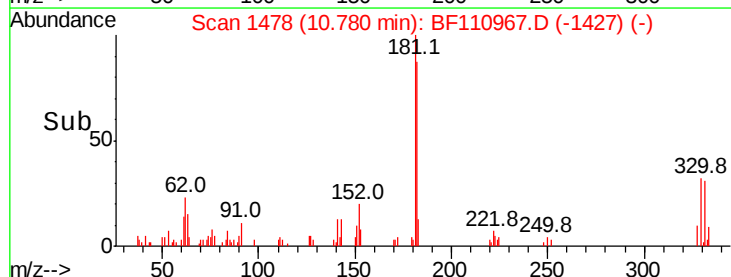
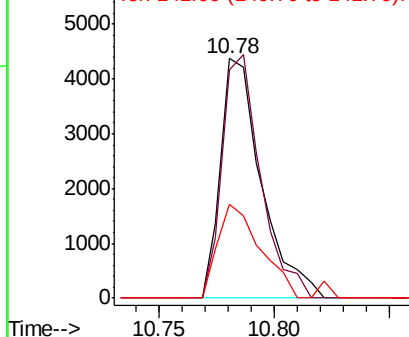


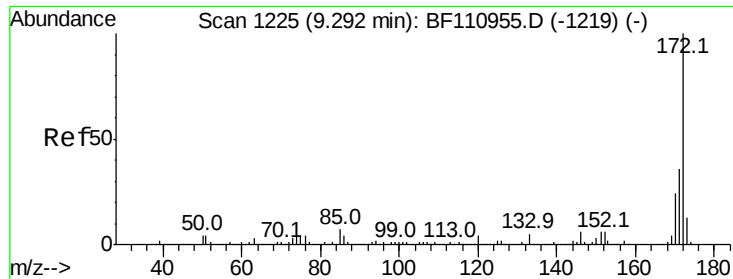
#42
2,4,6-Tribromophenol
Concen: 3.397 ng
RT: 10.78 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.1	115.7
141	40.6	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





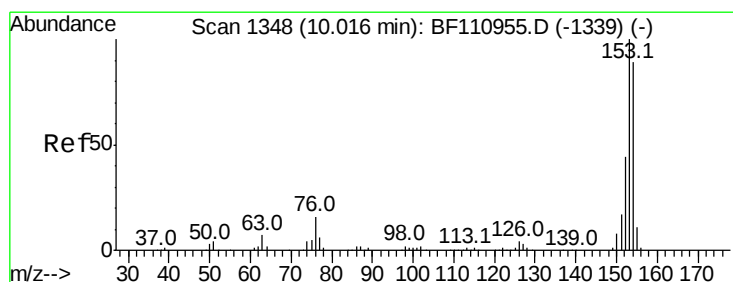
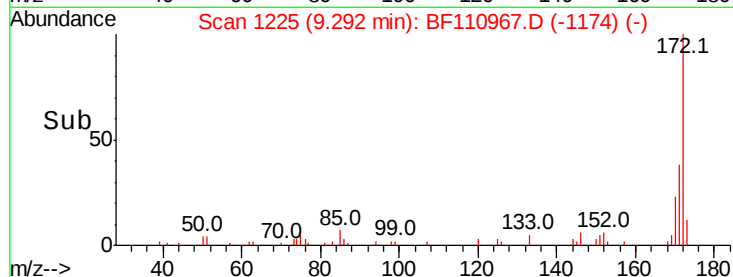
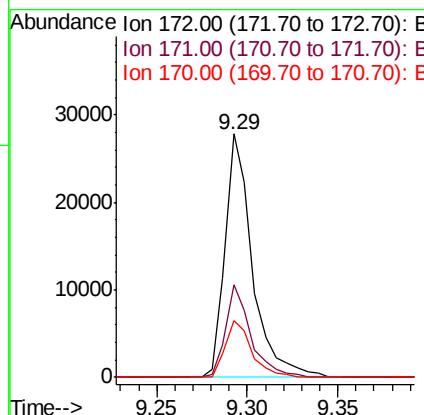
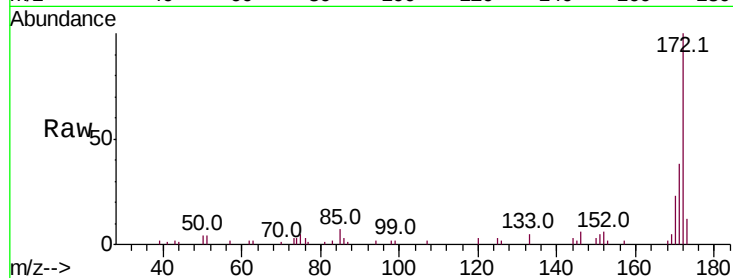
#45
2-Fluorobiphenyl
Concen: 2.647 ng
RT: 9.29 min Scan# 1225
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleID :
NB-08-112018DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	29234		
171	38.1		28.6	43.0
170	23.1		19.7	29.5

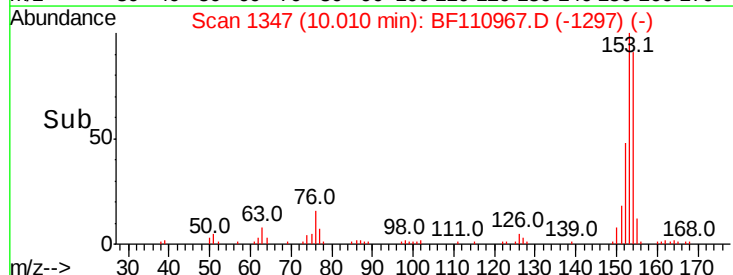
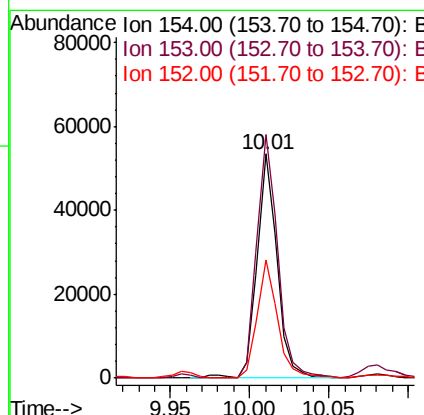
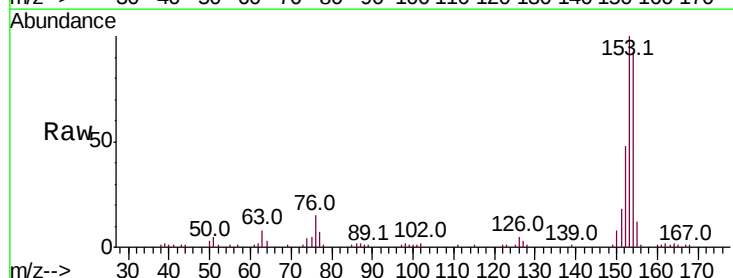
Manual Integrations
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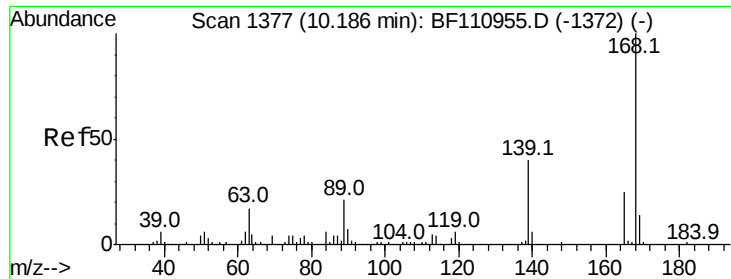
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#52
Acenaphthene
Concen: 4.806 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	46862		
153	108.7		90.1	135.1
152	52.7		43.4	65.2





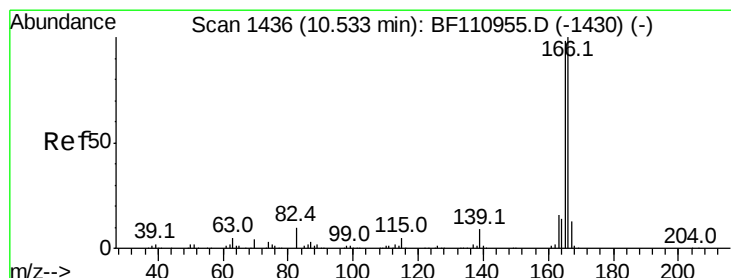
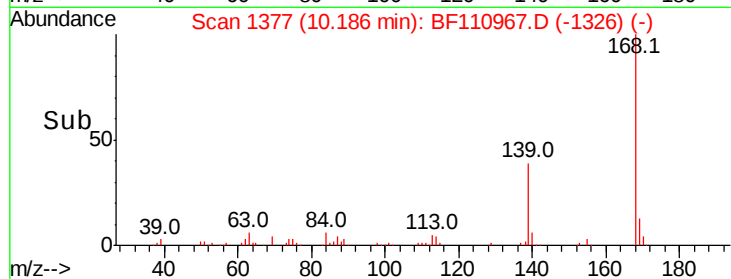
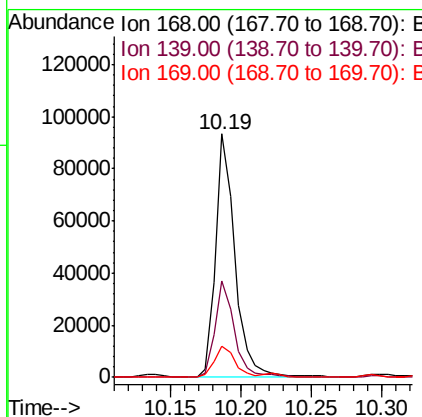
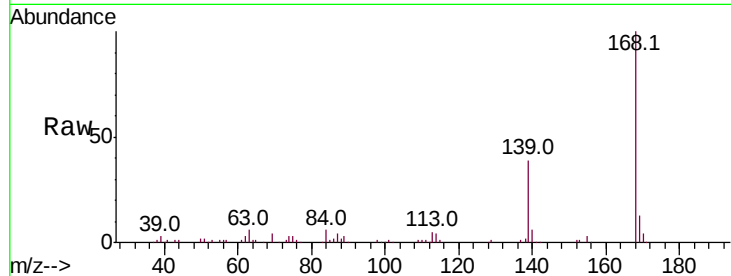
#55
Dibenzenofuran
Concen: 6.319 ng
RT: 10.19 min Scan# 1377
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.5	33.0	49.6
169	12.9	11.3	16.9

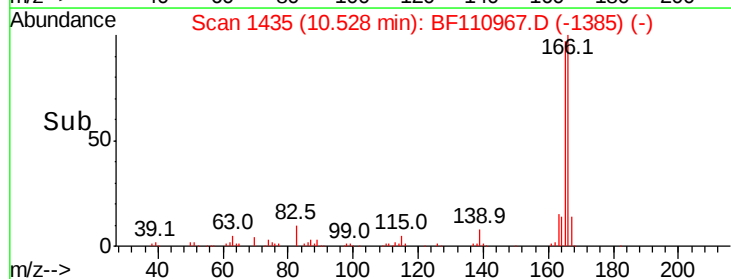
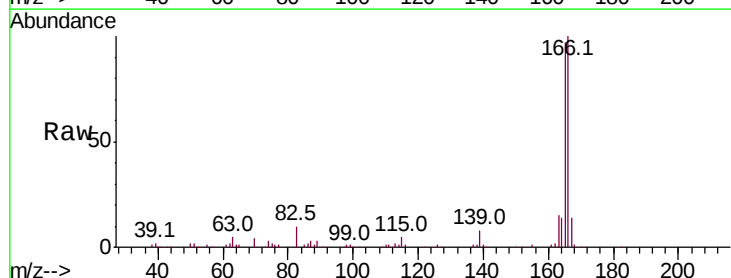
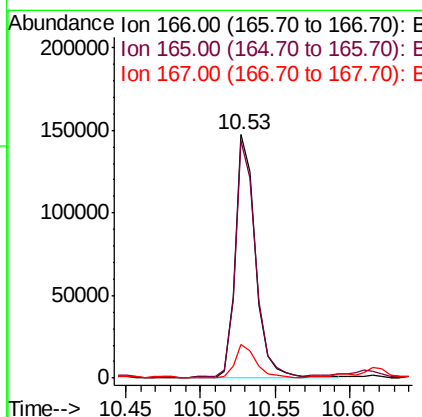
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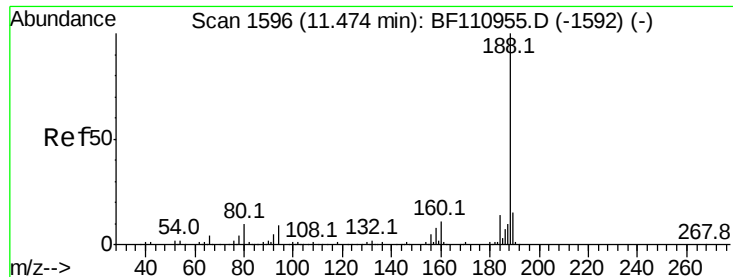
mohammad
11/27/2018 11:47:37 AM



#58
Fluorene
Concen: 12.818 ng
RT: 10.53 min Scan# 1435
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.6	117.8
167	13.6	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: BF110967.D

Acq: 26 Nov 2018 16:53

Instrument :

BNA_F

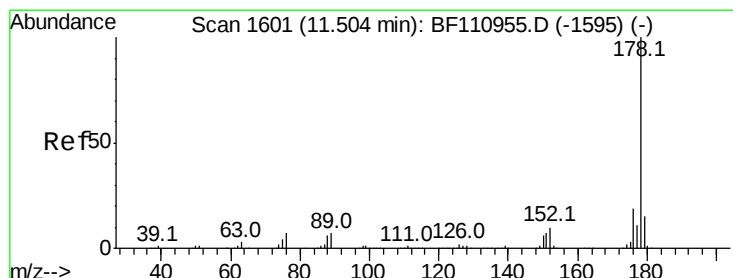
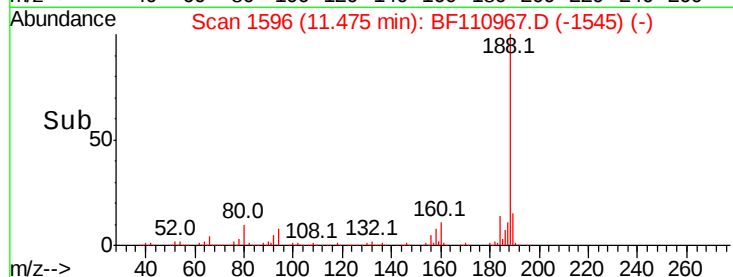
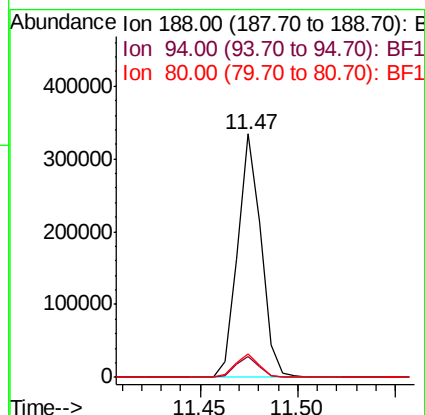
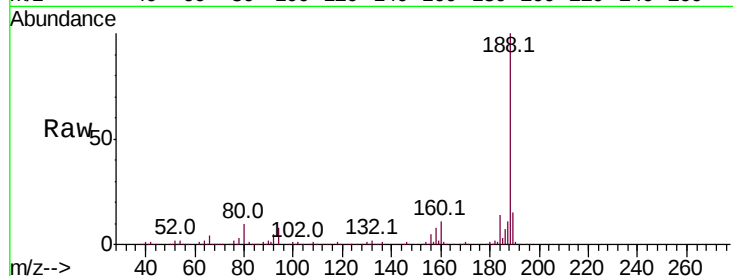
ClientSampleId :

NB-08-112018DL

Tot Ion:	188	Resp:	277703
Ion Ratio	Lower	Upper	
188	100		
94	8.3	7.2	10.8
80	9.5	7.9	11.9

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#71

Phenanthrene

Concen: 52.875 ng

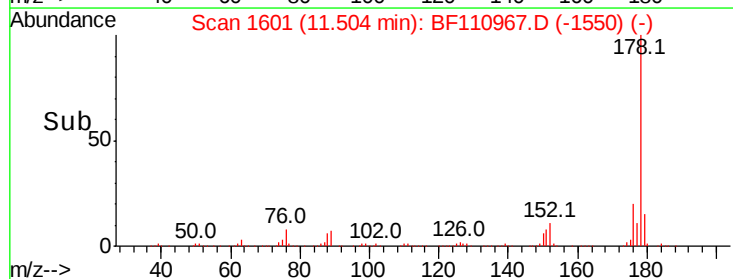
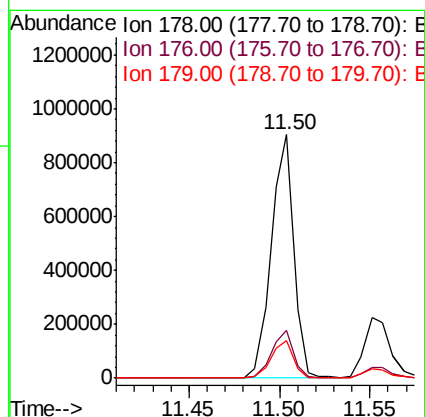
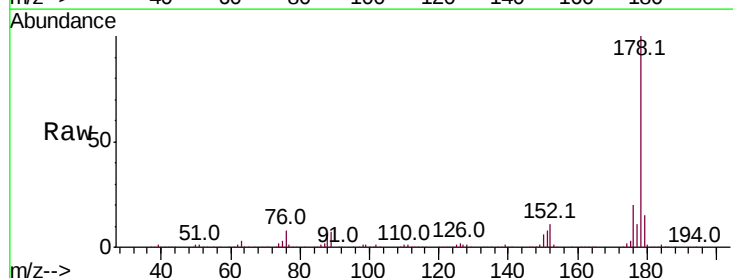
RT: 11.50 min Scan# 1601

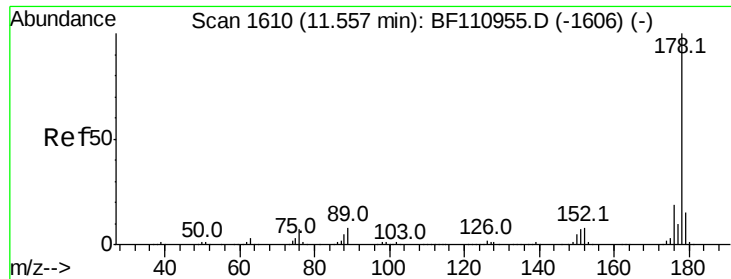
Delta R.T. 0.00 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

Tgt Ion:	178	Resp:	777675
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.5	23.3
179	15.2	12.5	18.7





#72

Anthracene

Concen: 14.928 ng

RT: 11.55 min Scan# 1609

Delta R.T. -0.01 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

Instrument :

BNA_F

ClientSampleId :

NB-08-112018DL

Tot Ion:178 Resp: 223598

Ion Ratio Lower Upper

178 100

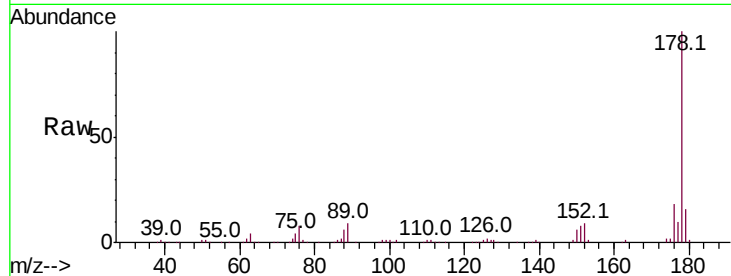
176 18.3 15.4 23.2

179 15.8 12.6 18.8

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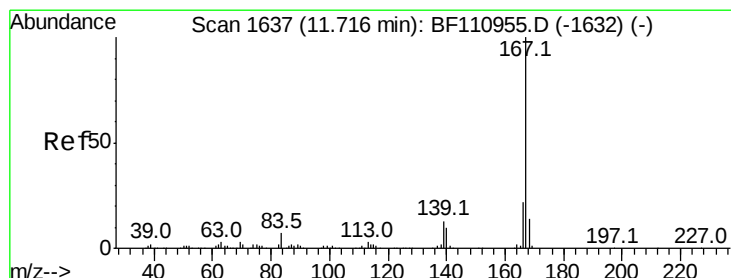
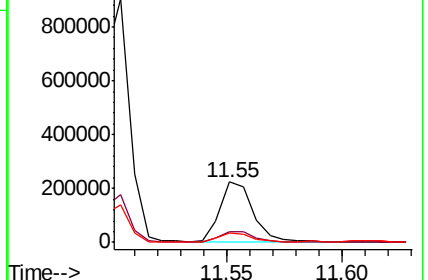
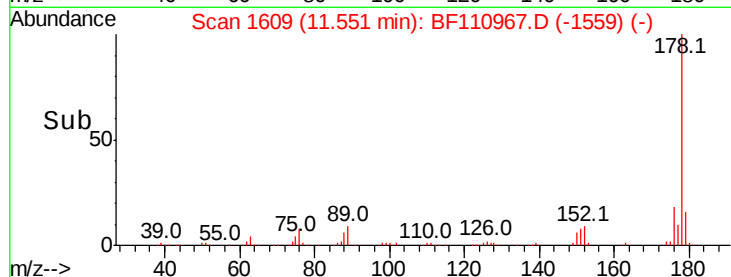
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.452 ng

RT: 11.72 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

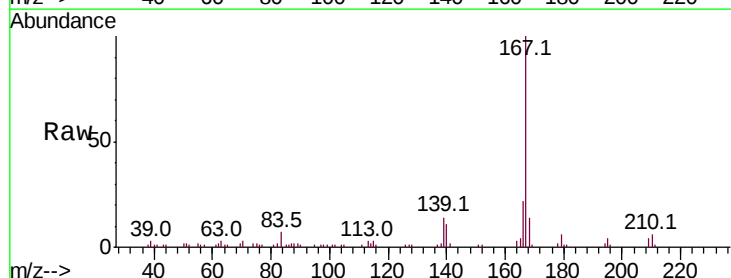
Tgt Ion:167 Resp: 50181

Ion Ratio Lower Upper

167 100

166 22.5 17.4 26.0

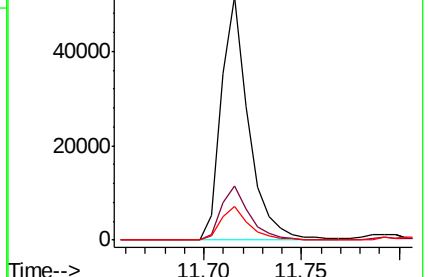
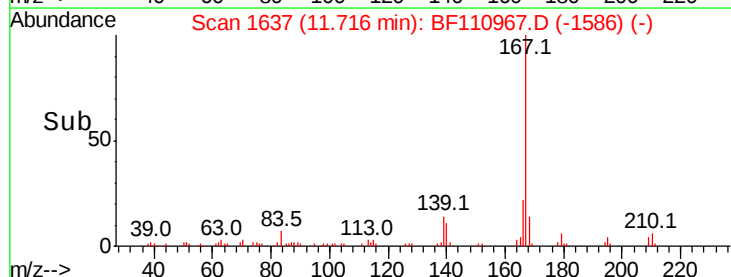
139 13.8 10.9 16.3

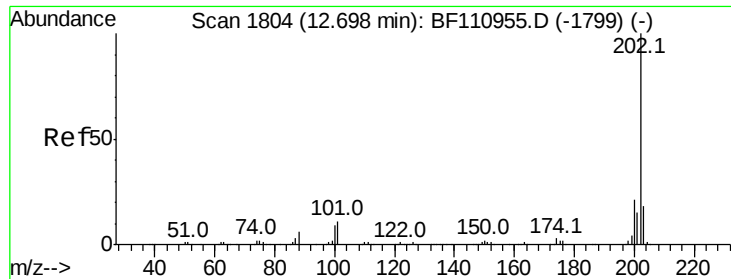


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 51.632 ng

RT: 12.70 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

Instrument :

BNA_F

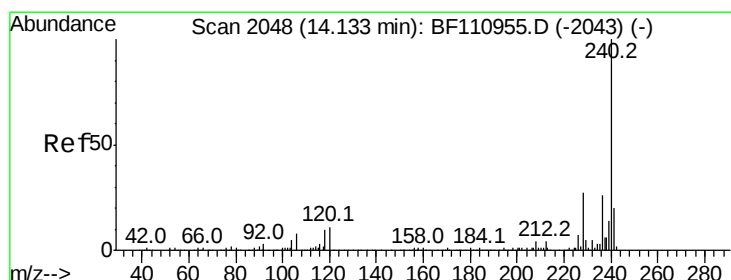
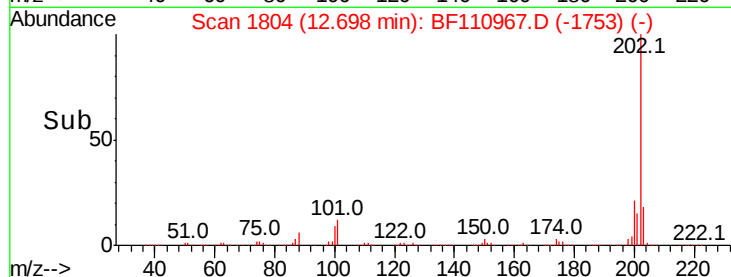
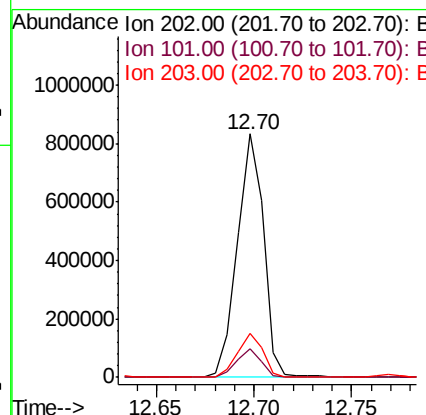
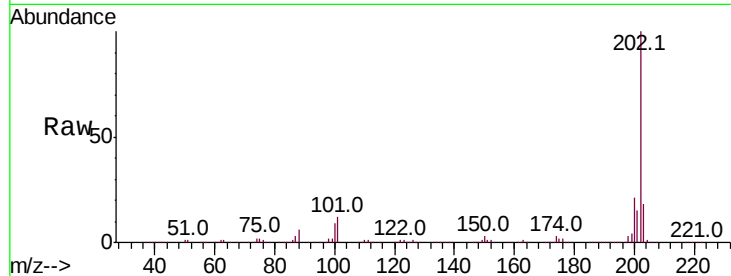
ClientSampleId :

NB-08-112018DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	11.5	0.0	31.4	
203	18.0	0.0	37.7	

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#76

Chrysene-d12

Concen: 20.000 ng

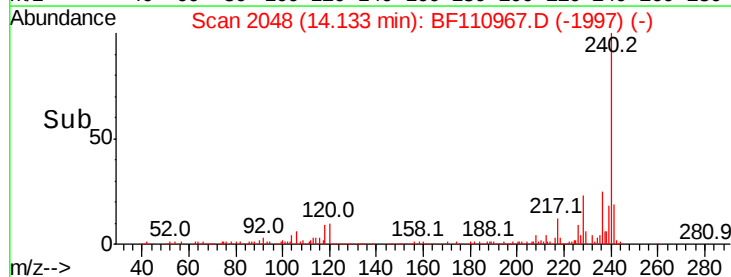
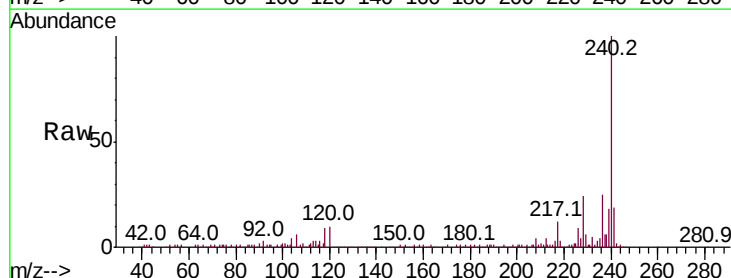
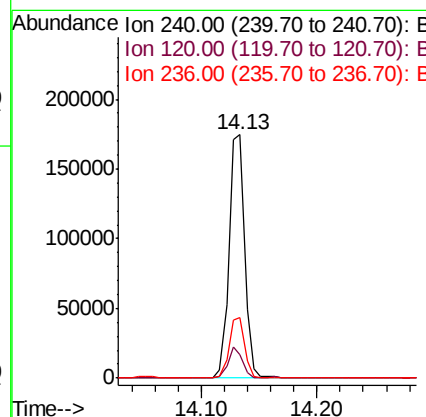
RT: 14.13 min Scan# 2048

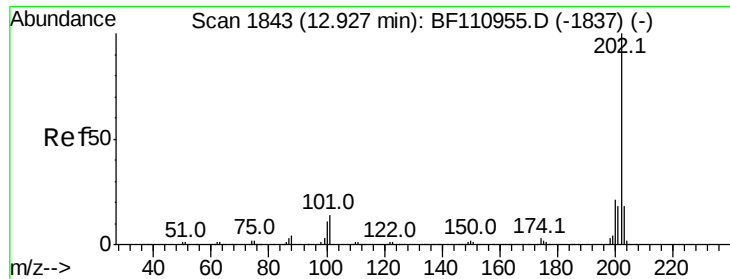
Delta R.T. 0.00 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	9.6	8.3	12.5	
236	25.1	21.2	31.8	





#78

Pvrene

Concen: 52.393 ng

RT: 12.93 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BF110967.D

Acq: 26 Nov 2018 16:53

Instrument :

BNA_F

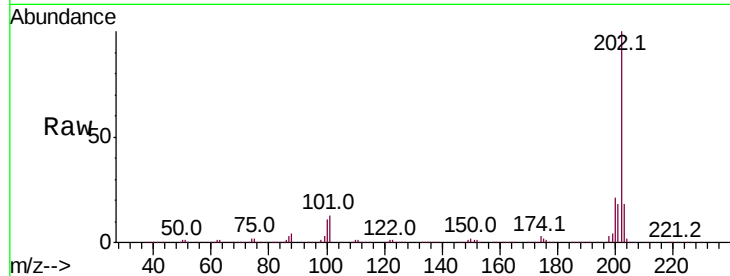
ClientSampleId :

NB-08-112018DL

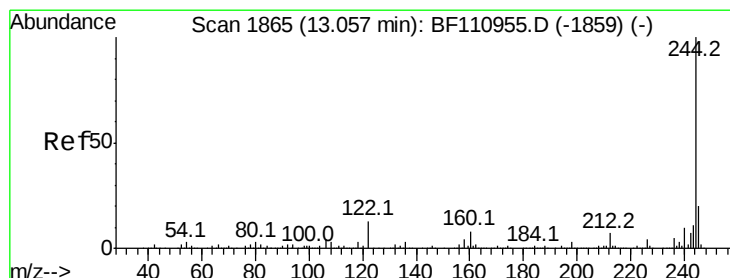
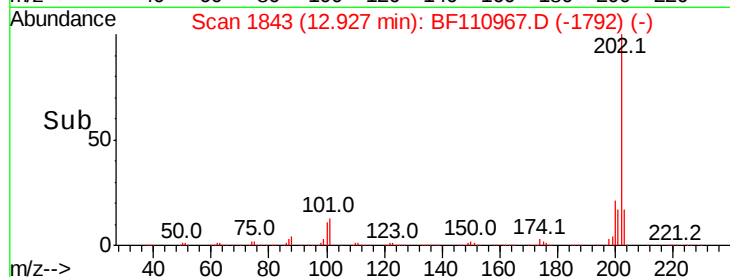
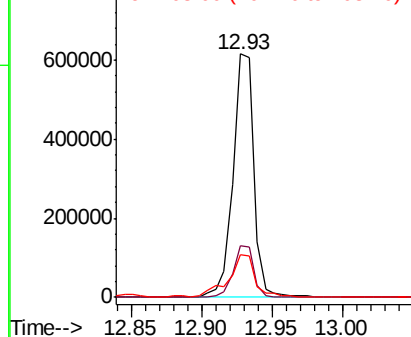
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.8	26.6
203	17.6	14.2	21.4

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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: 2.673 ng

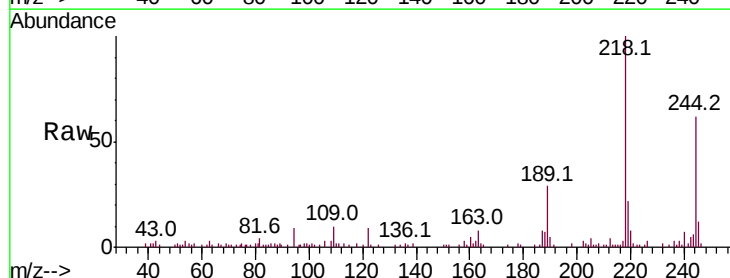
RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

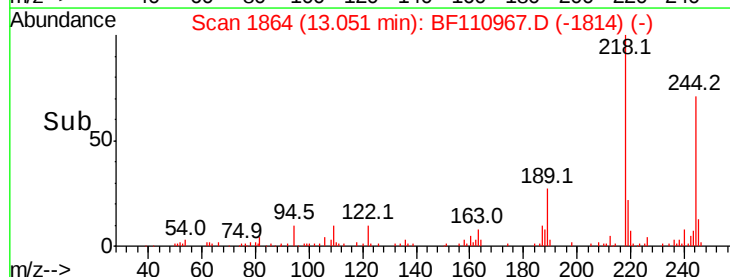
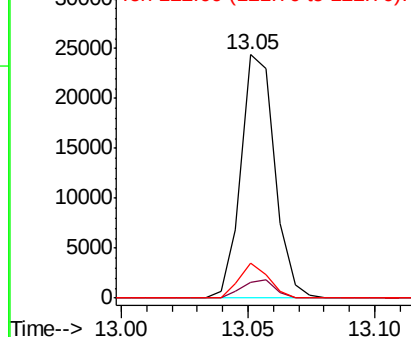
Lab File: BF110967.D

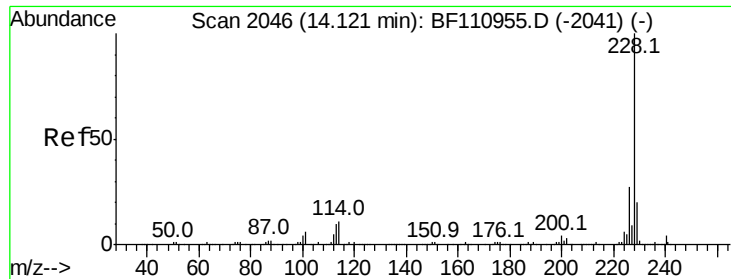
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.8
122	14.6	8.7	13.1#



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





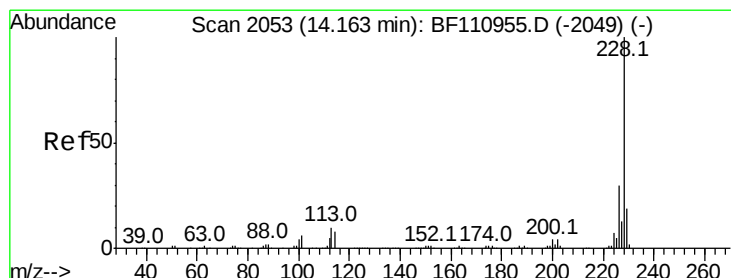
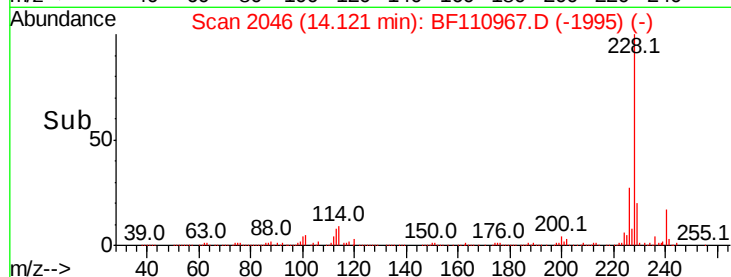
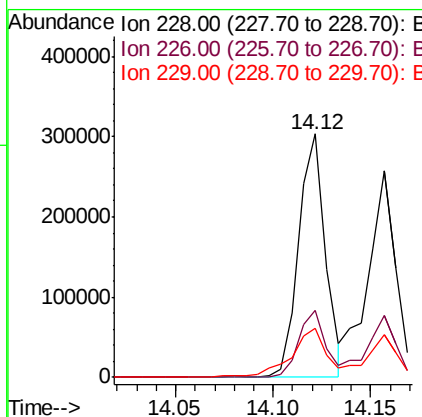
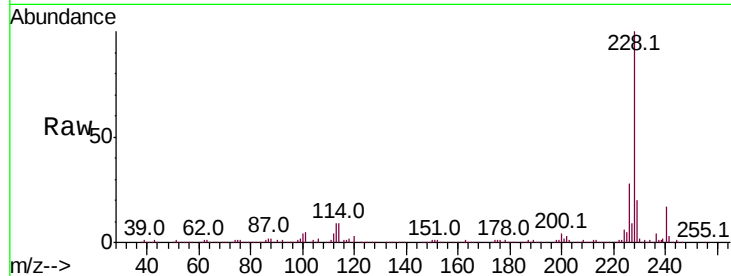
#81
Benzo(a)anthracene
Concen: 29.466 ng
RT: 14.12 min Scan# 2046
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	20.2	15.6	23.4

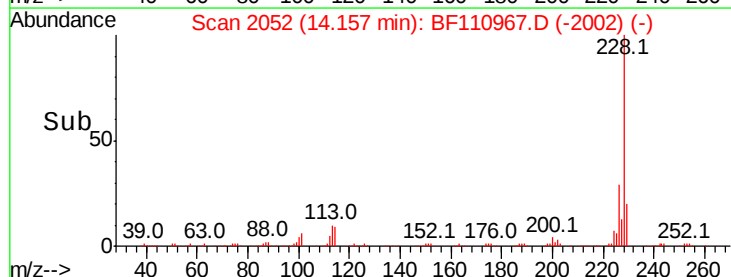
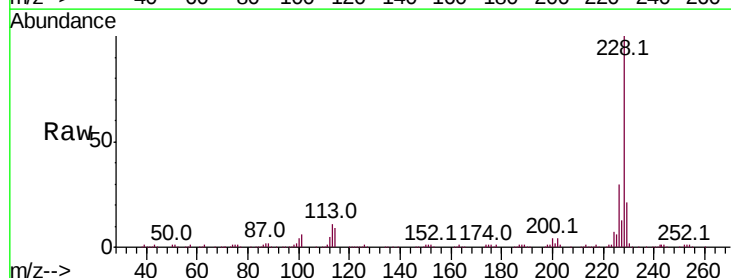
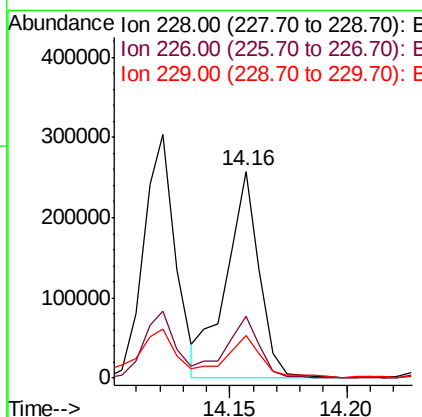
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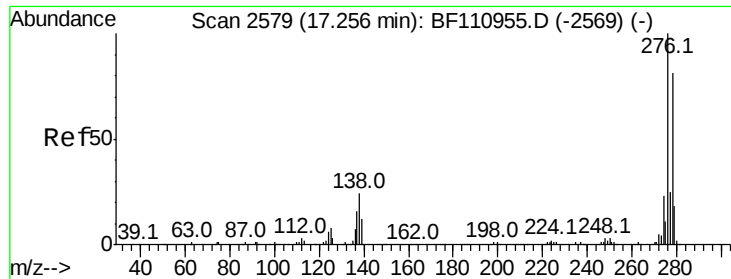
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#83
Chrysene
Concen: 26.418 ng m
RT: 14.16 min Scan# 2052
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.7	37.1
229	20.6	15.9	23.9





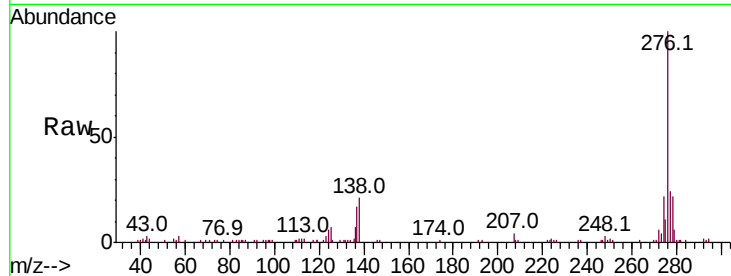
#86
Indeno(1,2,3-cd)pyrene
Concen: 16.614 ng
RT: 17.25 min Scan# 2578
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

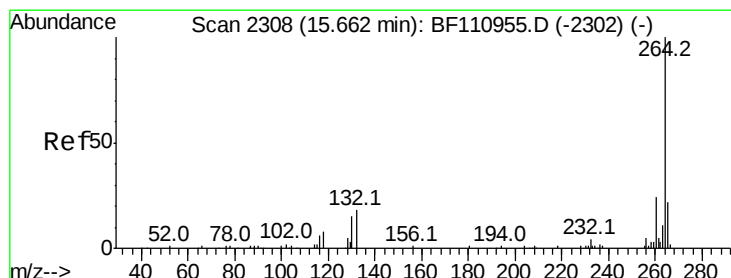
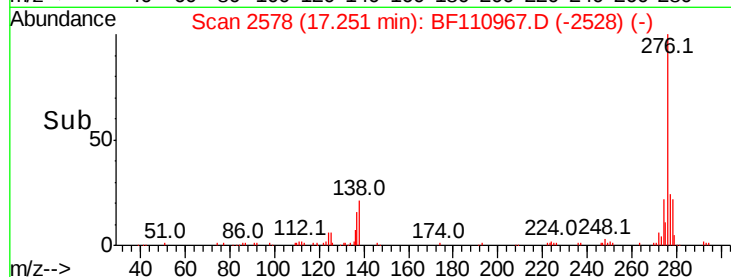
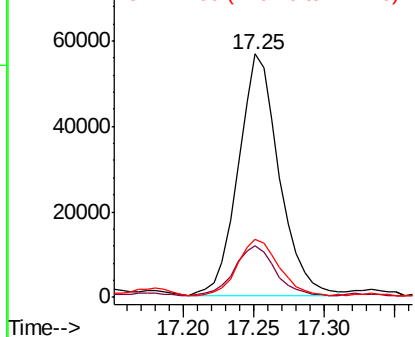
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.9	18.5	27.7
277	23.3	20.0	30.0

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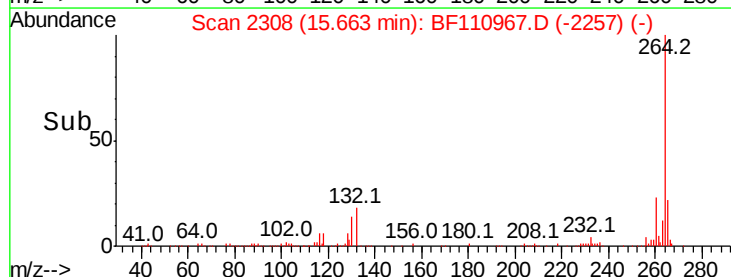
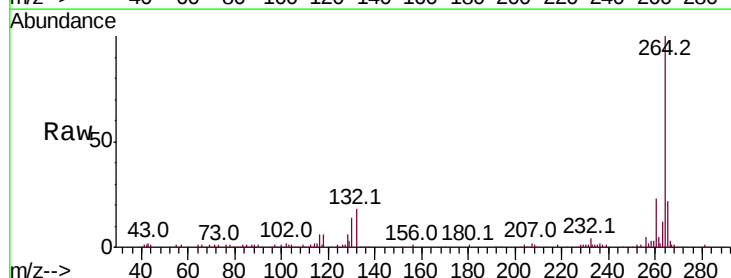
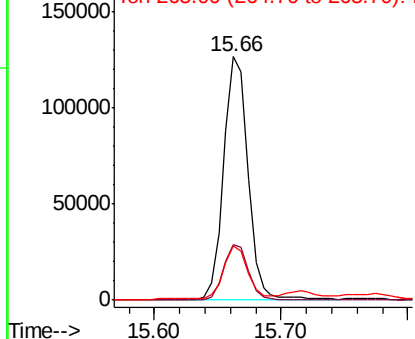
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

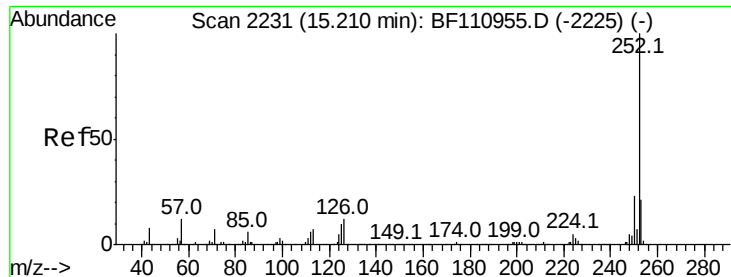


#87
Perylene-d12
Concen: 20.000 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.7	28.1
265	22.1	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





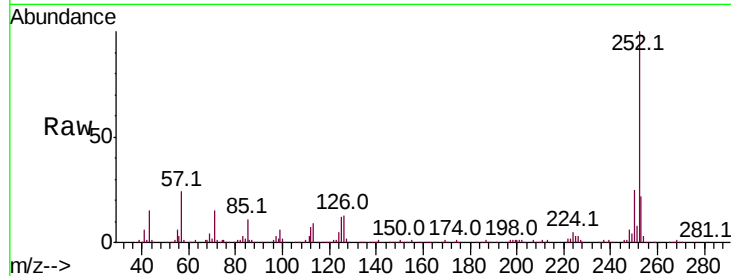
#88
Benzo(b)fluoranthene
Concen: 31.399 ng m
RT: 15.21 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.2	25.8
125	11.8	8.2	12.4

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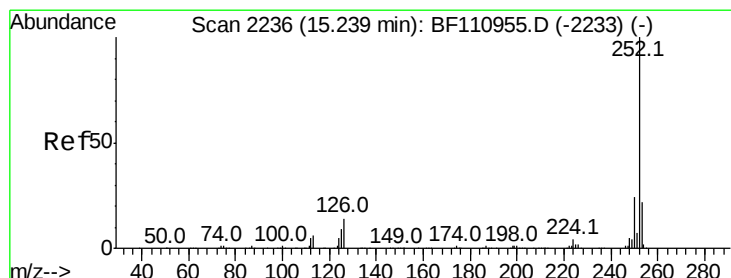
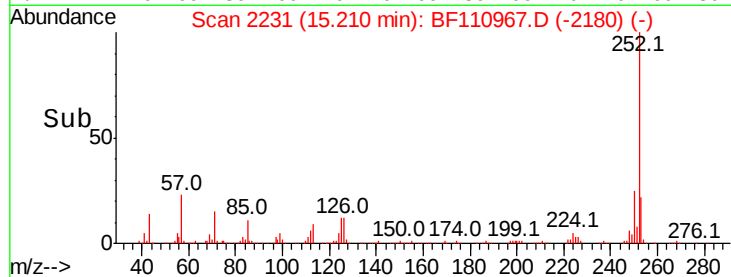
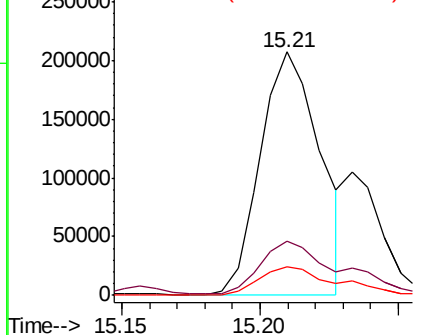


Abundance

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



#89
Benzo(k)fluoranthene
Concen: 9.568 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

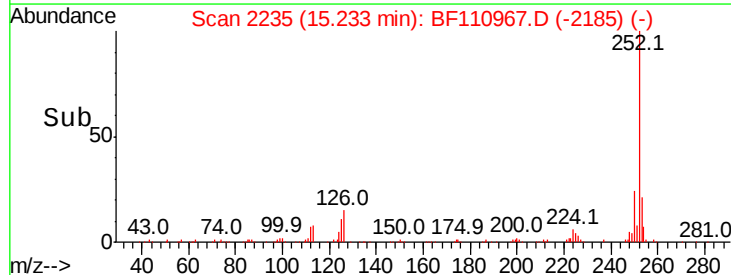
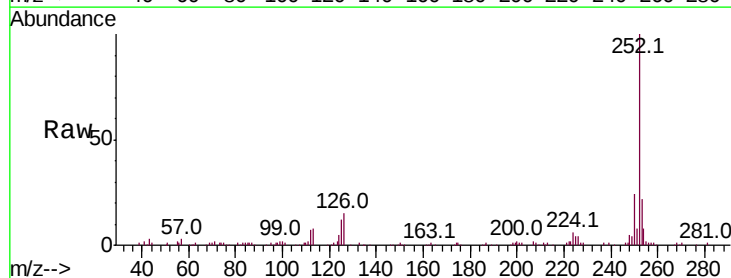
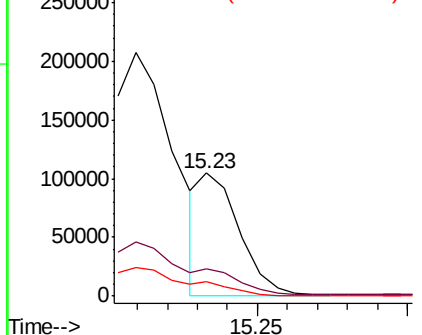
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.2	25.8
125	11.5	7.4	11.0

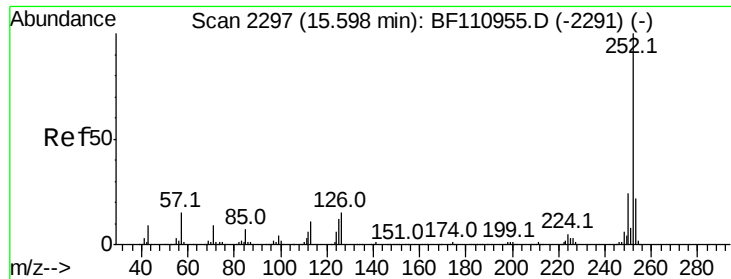
Abundance

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





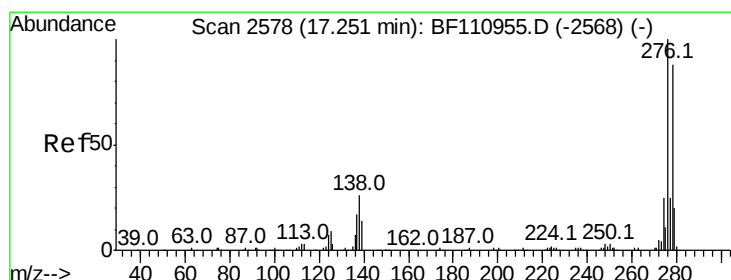
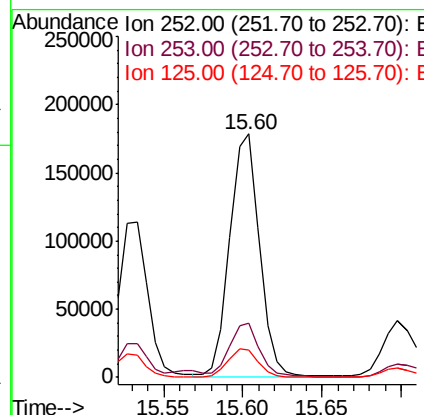
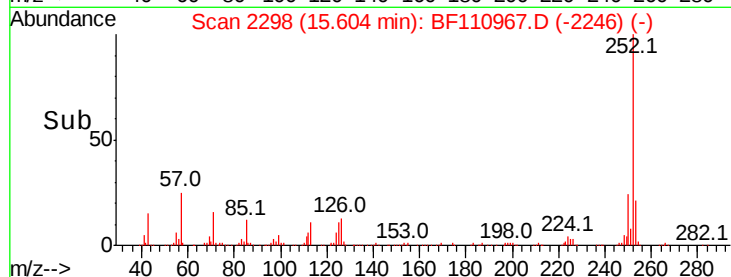
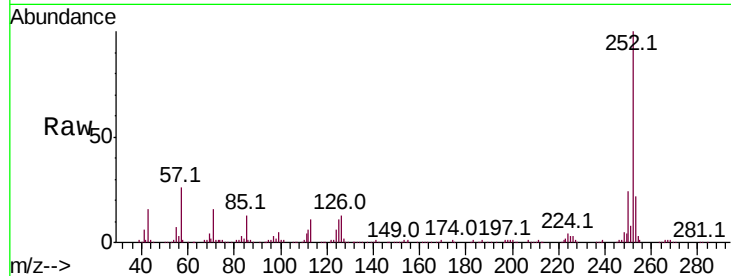
#90
Benzo(a)pyrene
Concen: 25.027 ng
RT: 15.60 min Scan# 2298
Delta R.T. 0.01 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.2	18.2	27.4
125	11.1	9.0	13.6

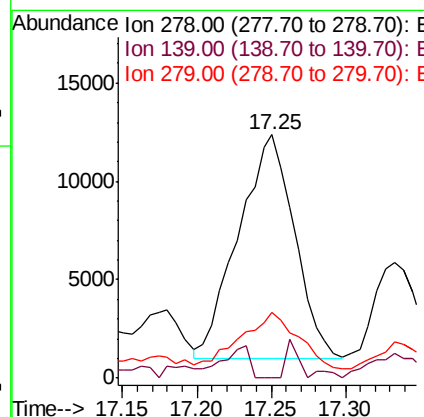
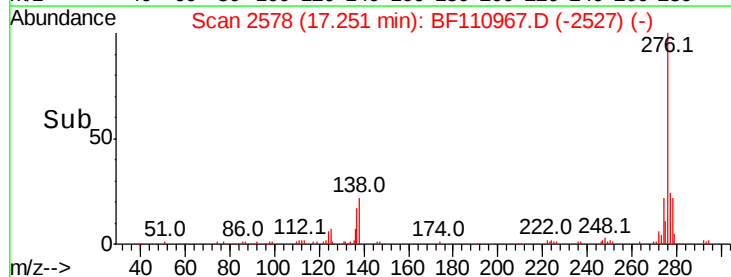
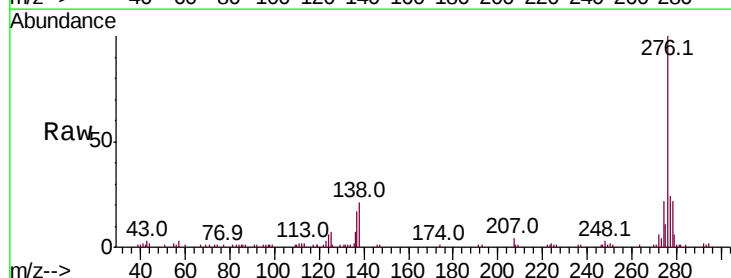
Manual Integrations
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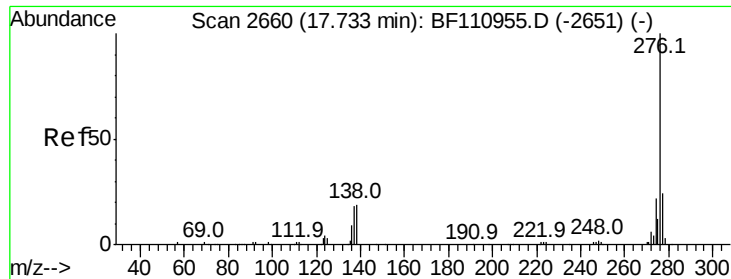
mohammad
11/27/2018 11:47:37 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.891 ng m
RT: 17.25 min Scan# 2578
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	27.1	19.0	28.4





#92
Benzo(a,h,i)perylene
Concen: 13.577 ng
RT: 17.73 min Scan# 2660
Delta R.T. 0.00 min
Lab File: BF110967.D
Acq: 26 Nov 2018 16:53

Instrument :
BNA_F
ClientSampleId :
NB-08-112018DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.8	28.2
138	21.8	16.0	24.0

Manual Integrations
APPROVED

mohammad
11/27/2018 11:47:37 AM

