

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
 Data File : BF110937.D
 Acq On : 21 Nov 2018 19:20
 Operator : JU/SJ
 Sample : J5981-02 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DTW-02(11-13)

Manual Integrations
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mohammad
 11/23/2018 11:49:15 AM

Quant Time: Nov 21 23:21:23 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	6.95	152	53746	20.00	ng	0.00
21) Naphthalene-d8	8.23	136	205019	20.00	ng	0.00
39) Acenaphthene-d10	9.99	164	79709	20.00	ng	0.00
64) Phenanthrene-d10	11.49	188	139183	20.00	ng	0.00
76) Chrysene-d12	14.14	240	108052	20.00	ng	0.00
87) Perylene-d12	15.67	264	79290	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	69959	21.14	ng	0.00
7) Phenol-d6	6.57	99	89011	21.04	ng	0.00
23) Nitrobenzene-d5	7.52	82	52184	14.66	ng	0.00
42) 2,4,6-Tribromophenol	10.79	330	14778	18.40	ng	0.00
45) 2-Fluorobiphenyl	9.30	172	81541	14.61	ng	0.00
79) Terphenyl-d14	13.06	244	77110	13.36	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.25	128	299194	31.087	ng	99
37) 2-Methylnaphthalene	8.94	142	43004	6.816	ng	97
38) 1-Methylnaphthalene	9.04	142	40654	6.700	ng	97
46) 1,1'-Biphenyl	9.40	154	18667	2.510	ng	96
49) Acenaphthylene	9.85	152	256924	33.303	ng	99
52) Acenaphthene	10.02	154	79602	16.327	ng	98
55) Dibenzofuran	10.19	168	149357	20.939	ng	98
58) Fluorene	10.54	166	248273	45.314	ng	98
71) Phenanthrene	11.52	178	1446922	194.043	ng	100
72) Anthracene	11.56	178	641658	85.304	ng	99
73) Carbazole	11.72	167	101716	14.080	ng	100
75) Fluoranthene	12.72	202	1966929	263.104	ng	98
78) Pyrene	12.95	202	1596072	191.841	ng	100
81) Benzo(a)anthracene	14.13	228	768209	118.948	ng	93
83) Chrysene	14.17	228	602527	97.925	ng	97
86) Indeno(1,2,3-cd)pyrene	17.27	276	238766	54.077	ng	96
88) Benzo(b)fluoranthene	15.23	252	641407m	135.221	ng	
89) Benzo(k)fluoranthene	15.25	252	174495m	37.229	ng	
90) Benzo(a)pyrene	15.62	252	422753	98.093	ng	99
91) Dibenzo(a,h)anthracene	17.27	278	60210m	16.509	ng	
92) Benzo(g,h,i)perylene	17.76	276	203573	56.258	ng	98

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

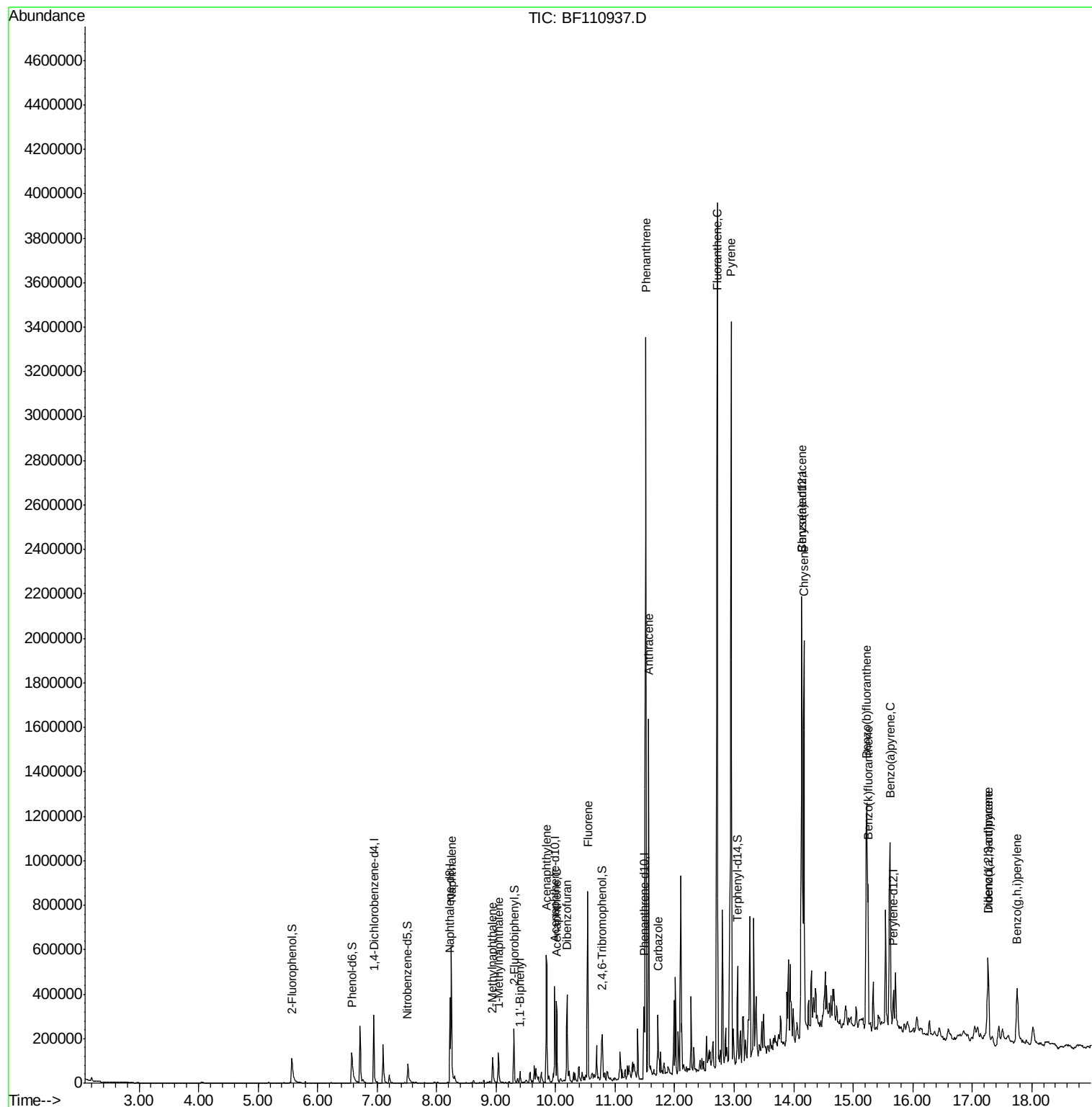
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
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Misc :
ALS Vial : 18 Sample Multiplier: 1

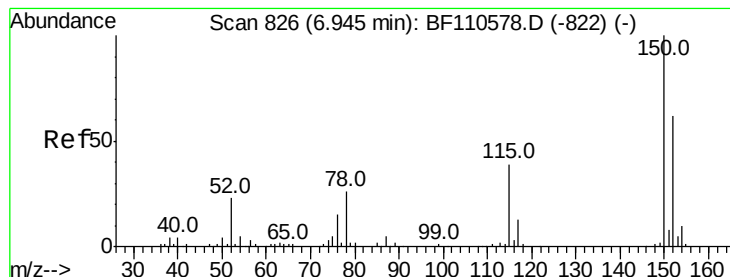
Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

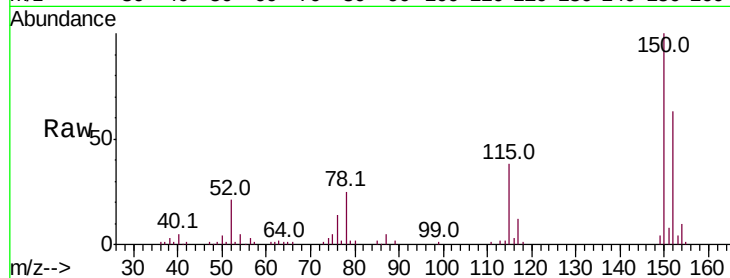
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.95 min Scan# 826
Delta R.T. -0.00 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	122.7	184.1
115	60.7	49.1	73.7

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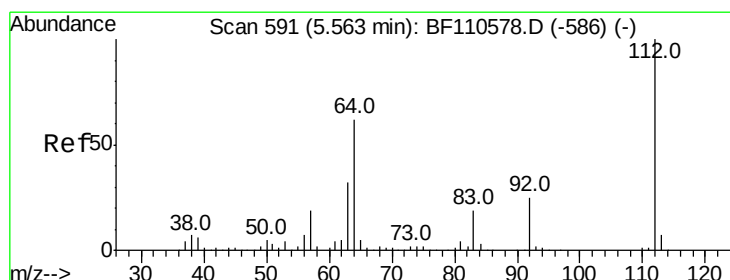
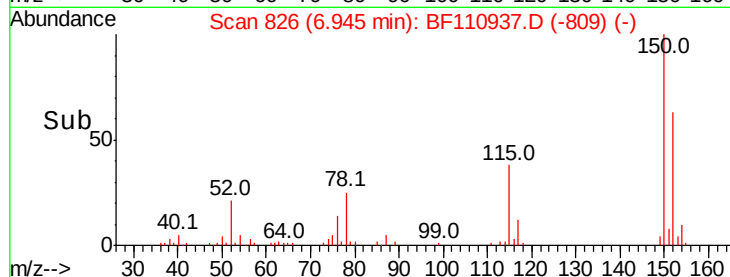
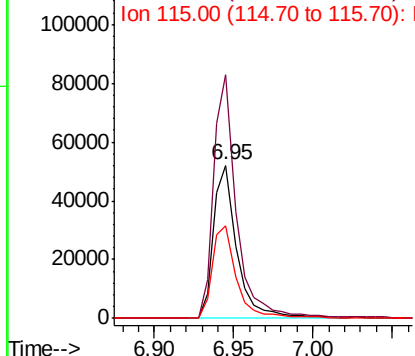


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

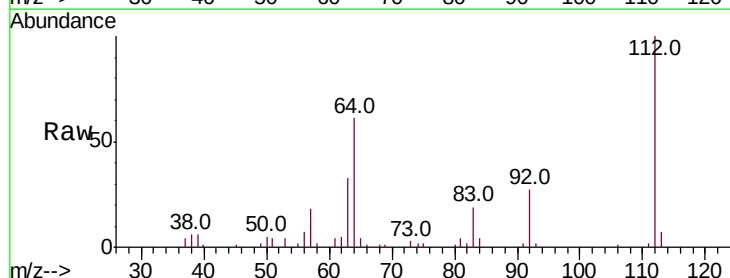
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.143 ng
RT: 5.57 min Scan# 592
Delta R.T. 0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	44.1	66.1
63	32.8	23.7	35.5

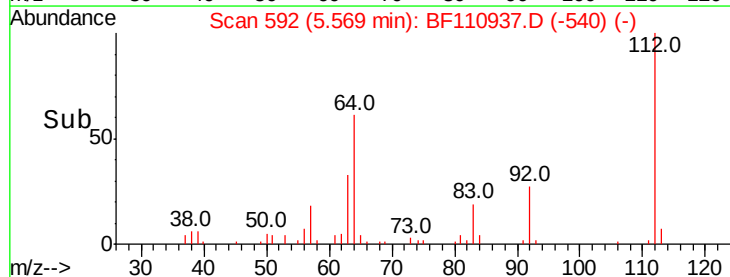
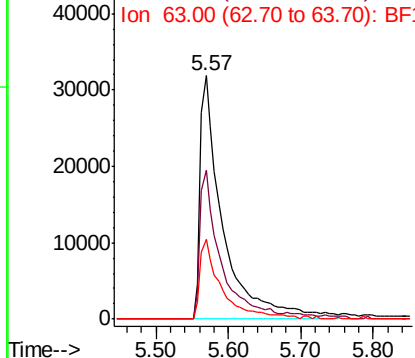


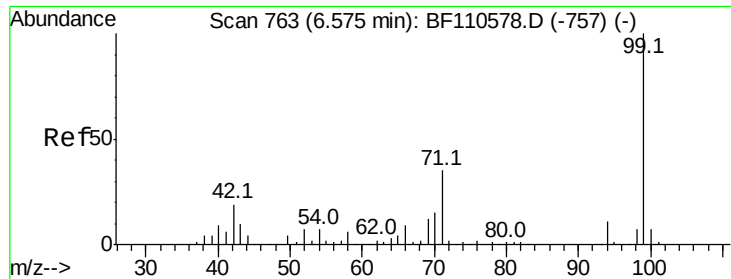
Abundance

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: 21.037 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.00 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

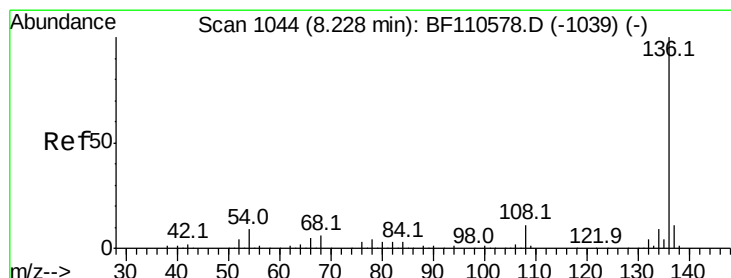
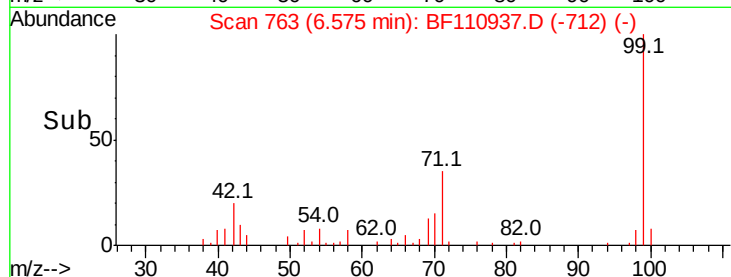
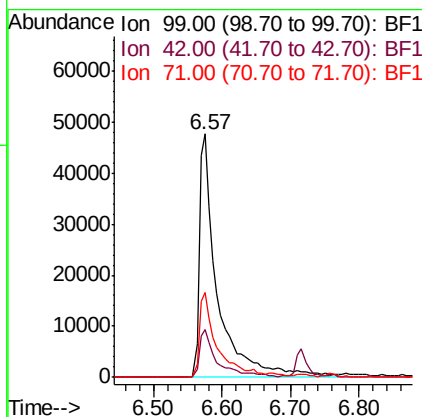
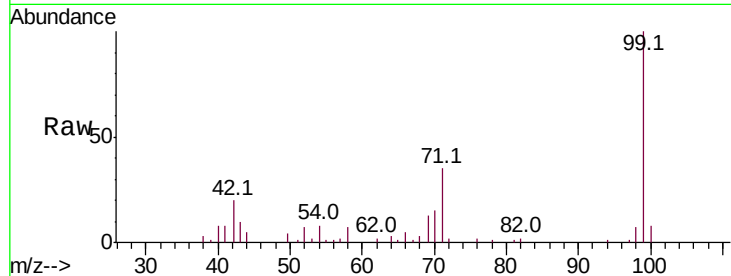
ClientSampleId :

DTW-02(11-13)

Tot Ion:	99	Resp:	89011
Ion Ratio	Lower	Upper	
99	100		
42	19.7	15.8	23.6
71	34.9	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

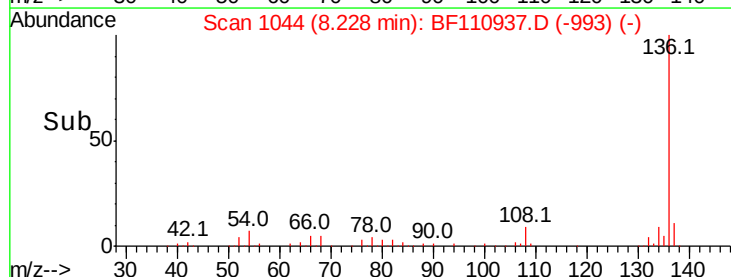
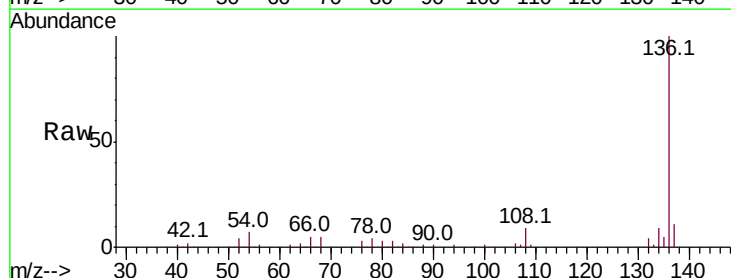
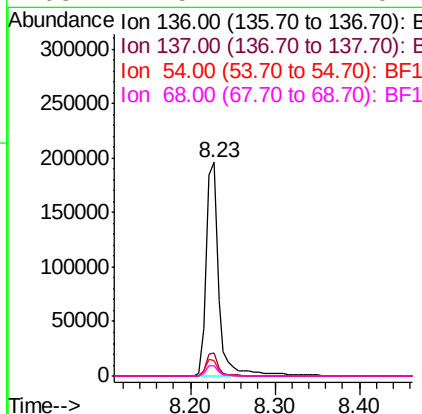
RT: 8.23 min Scan# 1044

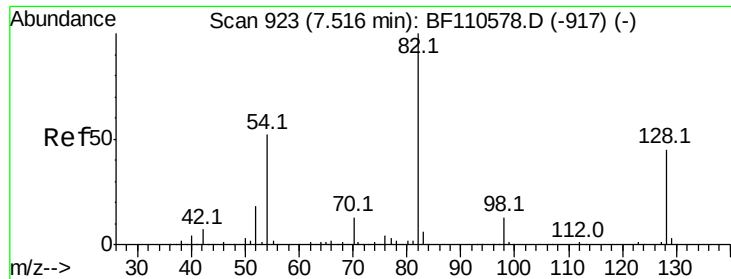
Delta R.T. 0.00 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Tgt Ion:	136	Resp:	205019
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.8	13.2
54	7.3	5.4	8.2
68	4.5	4.2	6.2





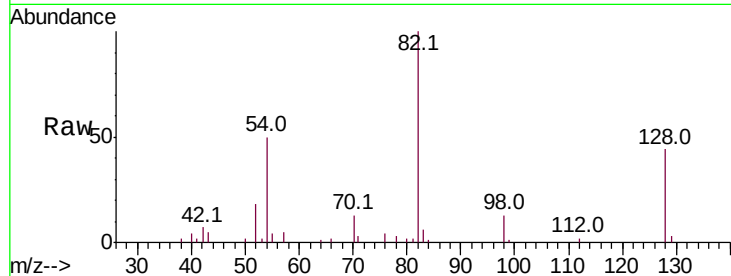
#23
Nitrobenzene-d5
Concen: 14.658 ng
RT: 7.52 min Scan# 923
Delta R.T. 0.00 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	82	Resp	52184
Ion Ratio	100	Lower	Upper
128	43.6	34.2	51.2
54	50.3	38.6	58.0

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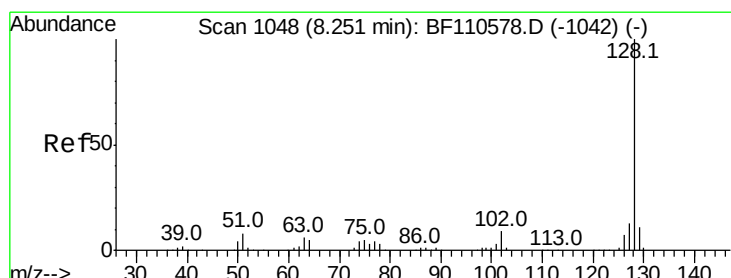
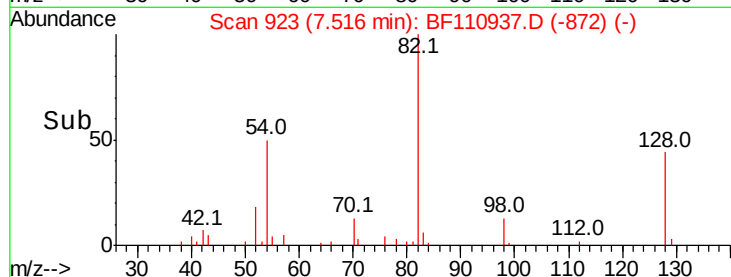
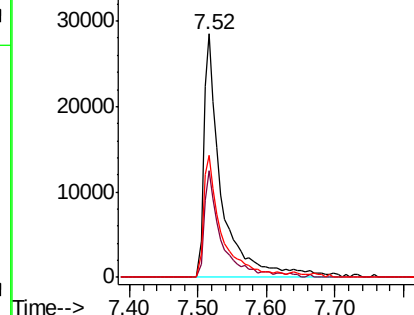


Abundance

Ion 82.00 (81.70 to 82.70): BF1

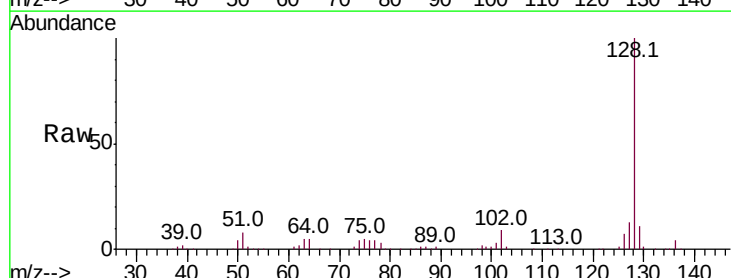
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 31.087 ng
RT: 8.25 min Scan# 1047
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	128	Resp	299194
Ion Ratio	100	Lower	Upper
129	10.9	8.8	13.2
127	13.1	10.8	16.2

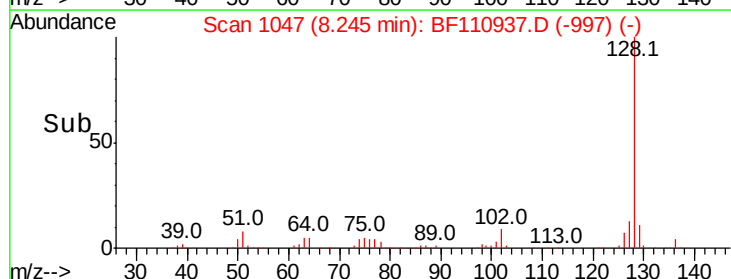
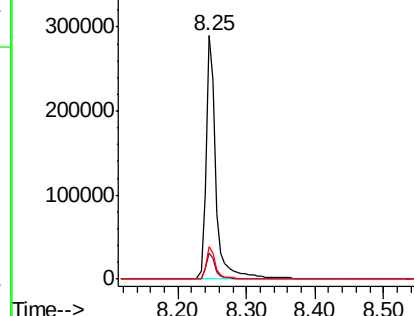


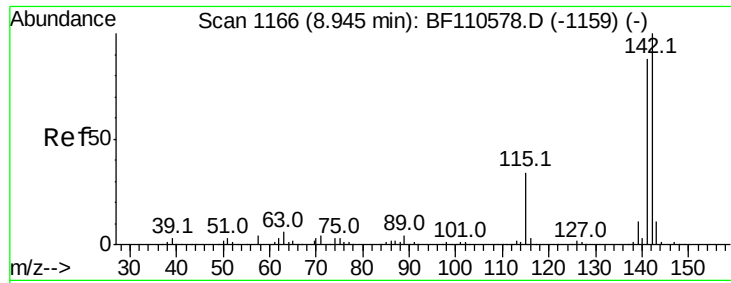
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





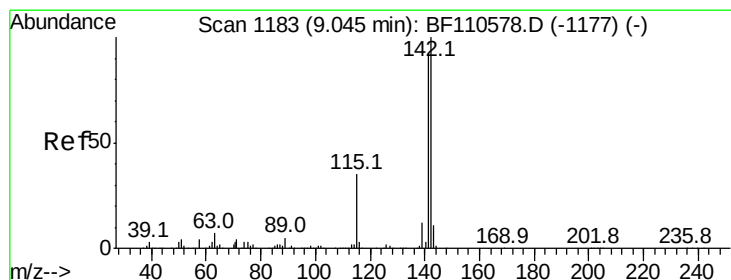
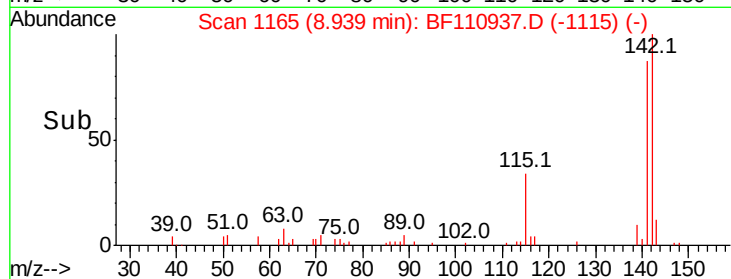
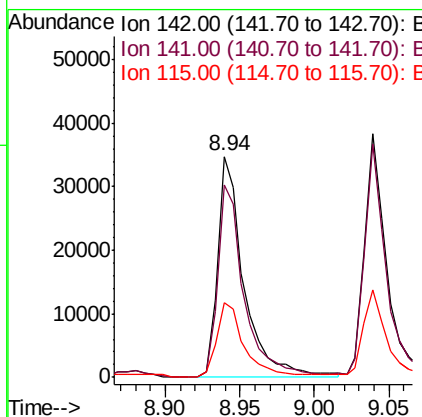
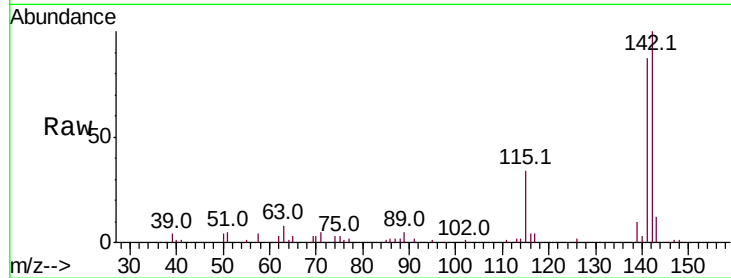
#37
2-Methylnaphthalene
Concen: 6.816 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.0	71.4	107.2
115	34.1	28.7	43.1

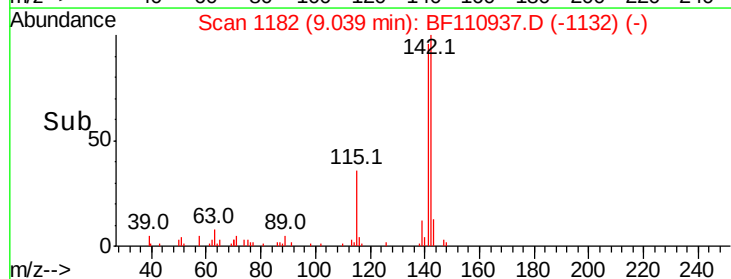
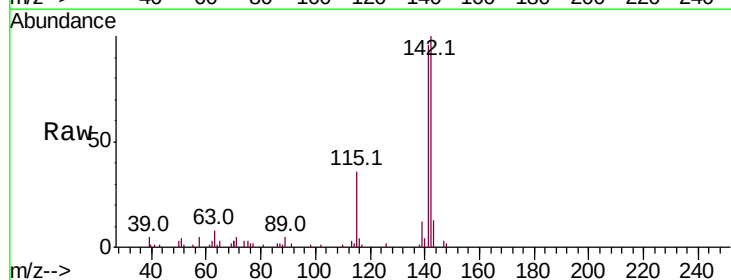
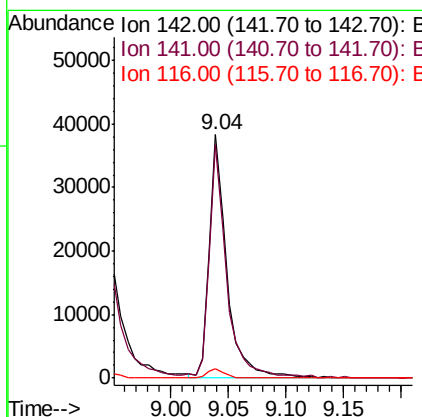
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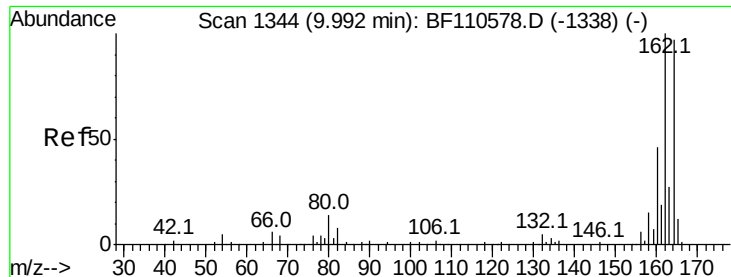
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#38
1-Methylnaphthalene
Concen: 6.700 ng
RT: 9.04 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	96.0	74.2	111.4
116	3.8	2.6	4.0





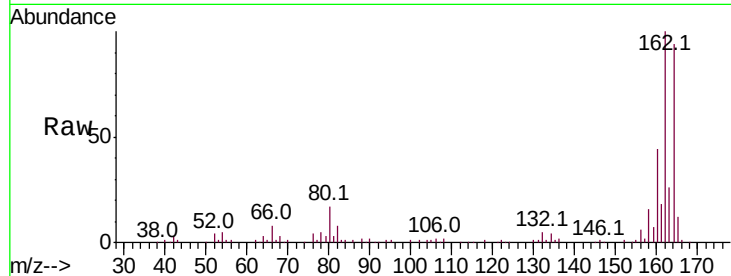
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1343
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

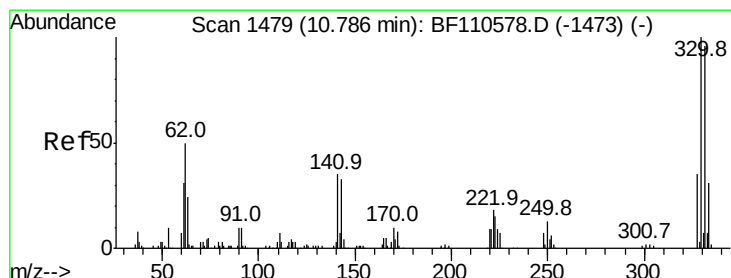
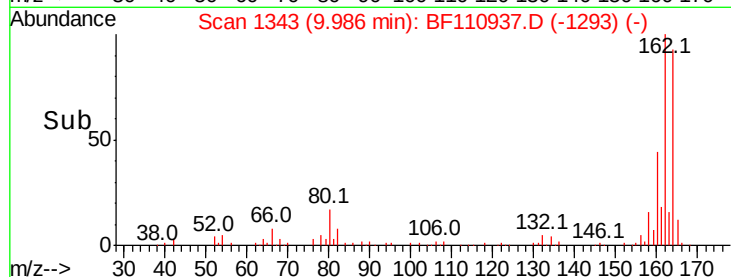
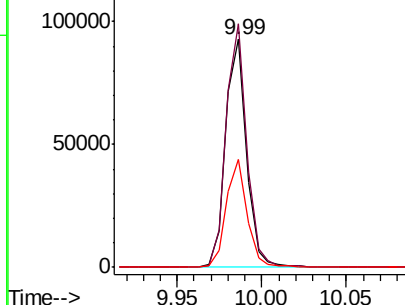
Tot Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.0	124.6
160	47.2	37.0	55.6

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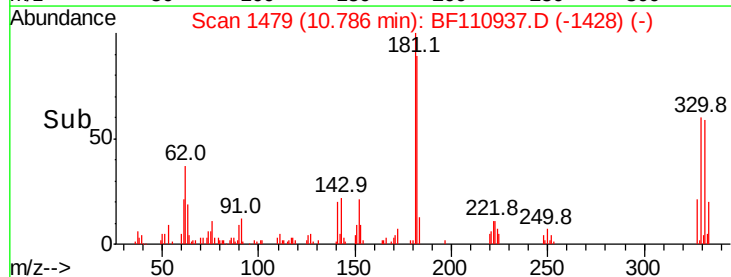
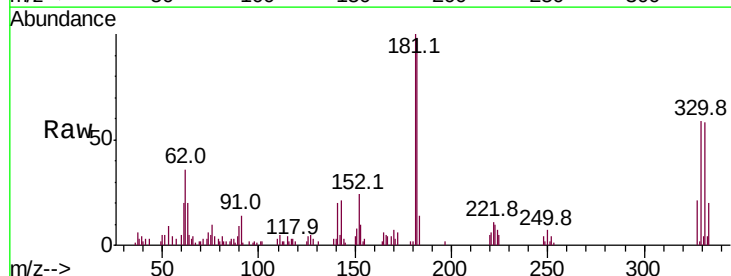
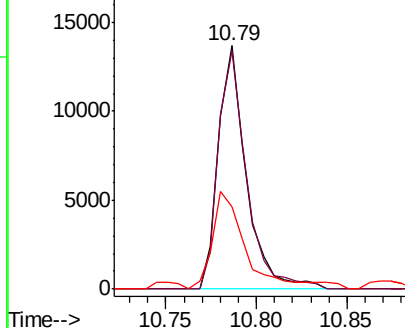
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

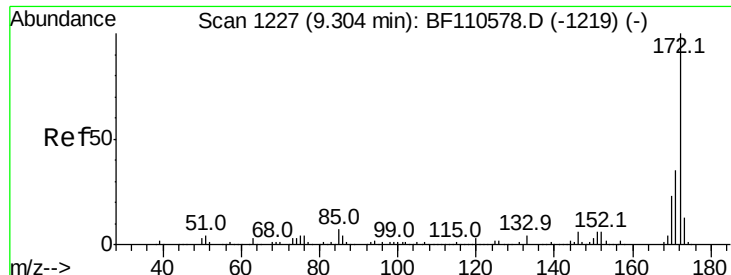


#42
2,4,6-Tribromophenol
Concen: 18.400 ng
RT: 10.79 min Scan# 1479
Delta R.T. -0.00 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.1	77.1	115.7
141	48.8	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





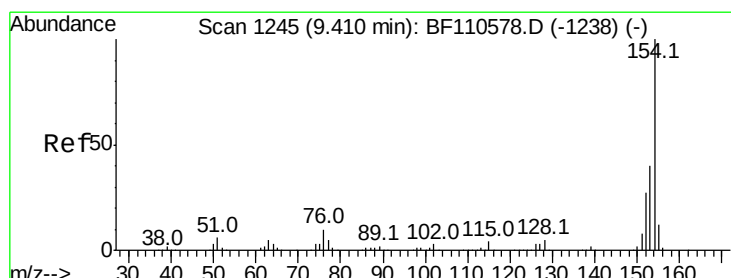
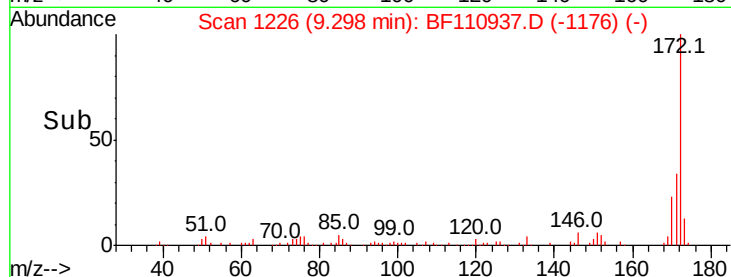
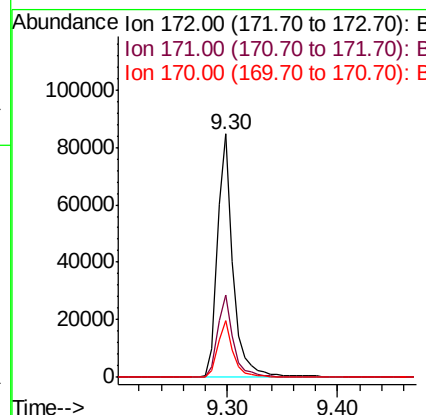
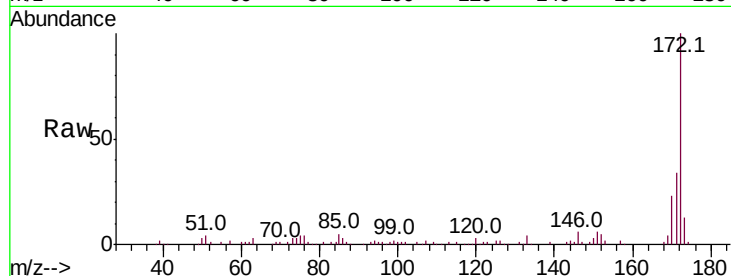
#45
2-Fluorobiphenyl
Concen: 14.610 ng
RT: 9.30 min Scan# 1226
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.6	43.0
170	23.2	19.7	29.5

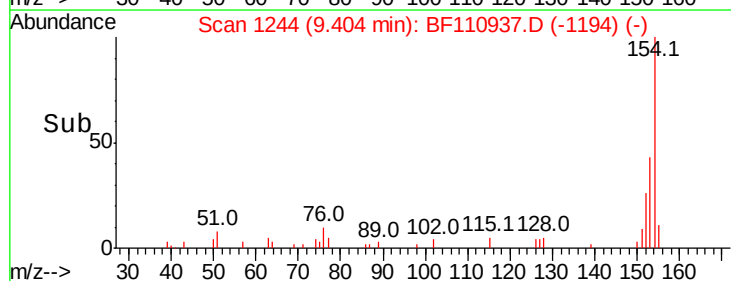
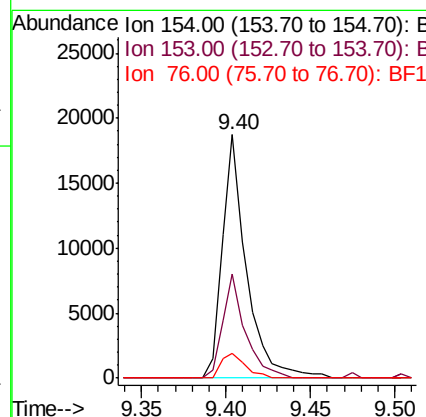
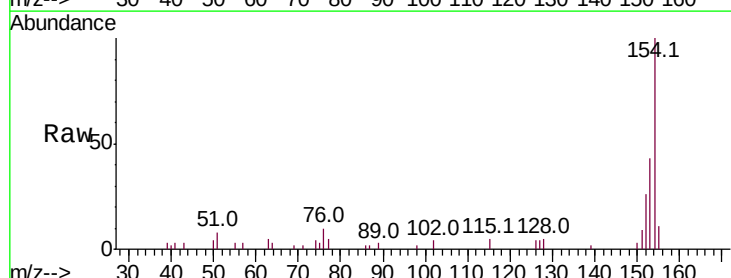
Manual Integrations
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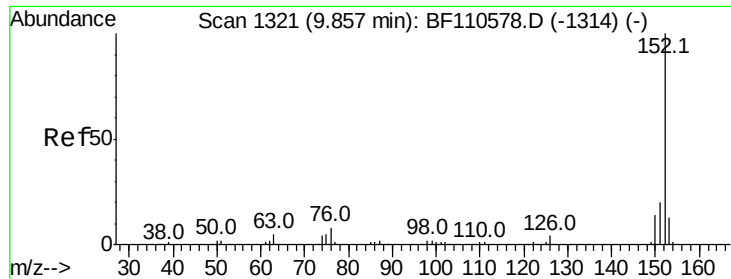
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#46
1,1'-Biphenyl
Concen: 2.510 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.6	20.4	60.4
76	10.1	0.0	31.9





#49

Acenaphthylene

Concen: 33.303 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

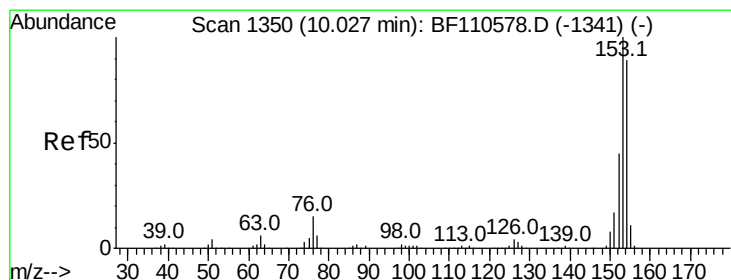
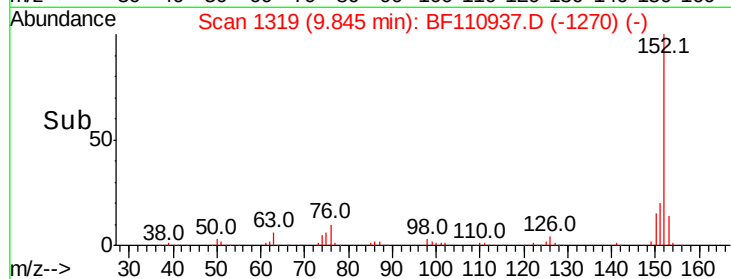
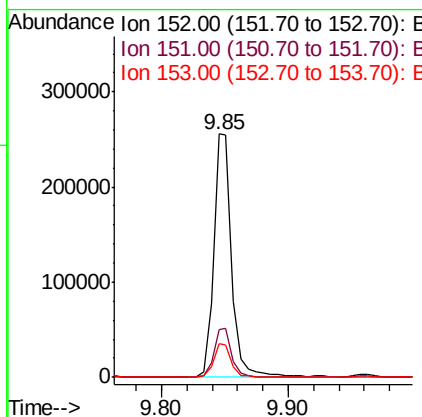
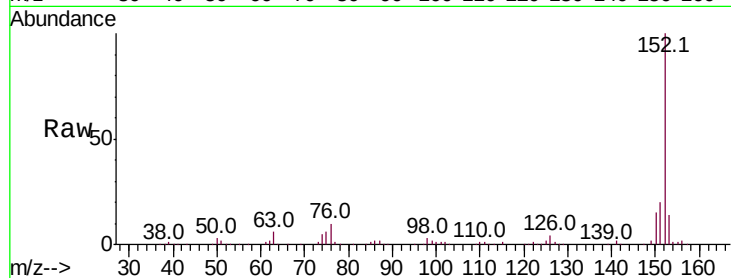
ClientSampleId :

DTW-02(11-13)

Tot Ion:	152	Resp:	256924
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	14.0	10.4	15.6

Manual Integrations
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#52

Acenaphthene

Concen: 16.327 ng

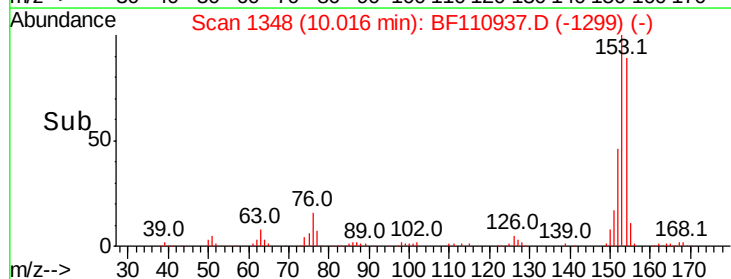
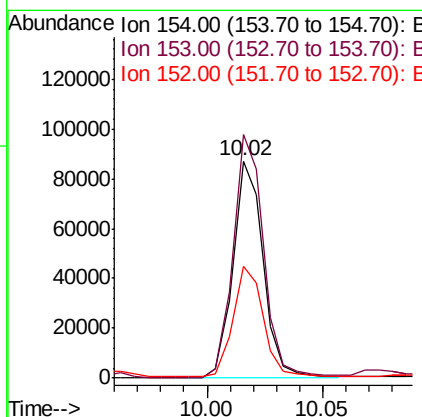
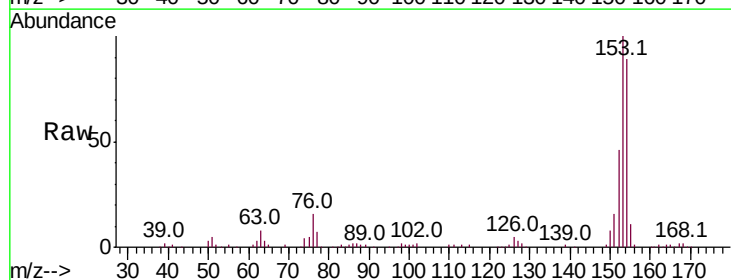
RT: 10.02 min Scan# 1348

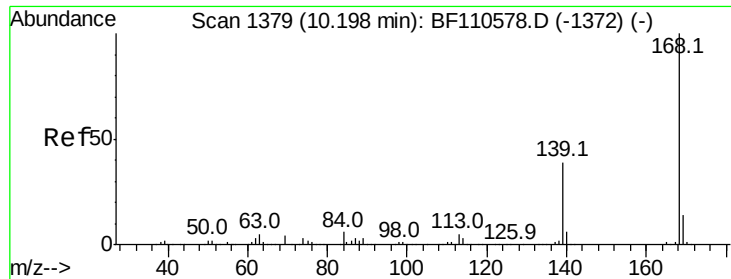
Delta R.T. -0.01 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Tgt Ion:	154	Resp:	79602
Ion Ratio	Lower	Upper	
154	100		
153	112.1	90.1	135.1
152	51.5	43.4	65.2





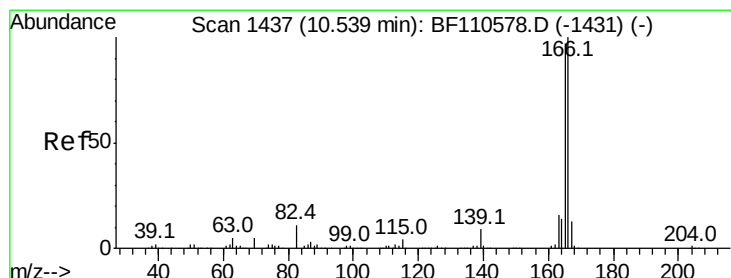
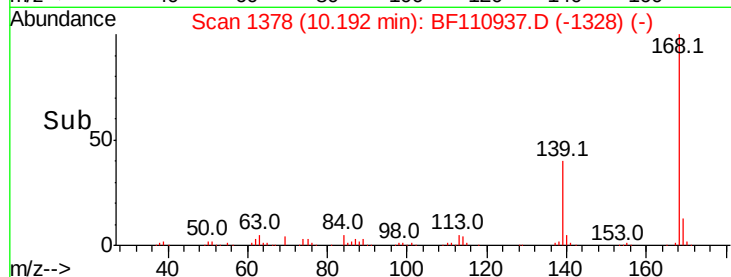
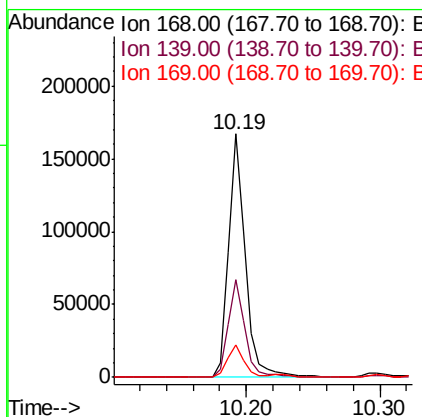
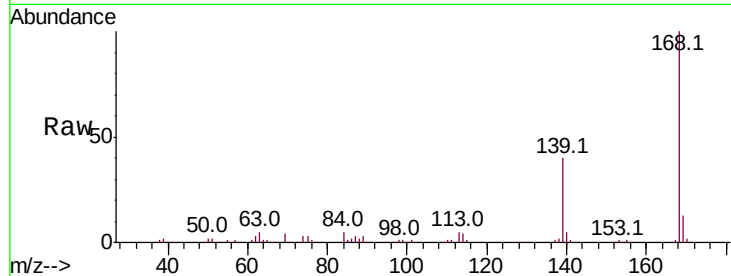
#55
Dibenzenofuran
Concen: 20.939 ng
RT: 10.19 min Scan# 1378
Delta R.T. -0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.3	33.0	49.6	
169	13.1	11.3	16.9	

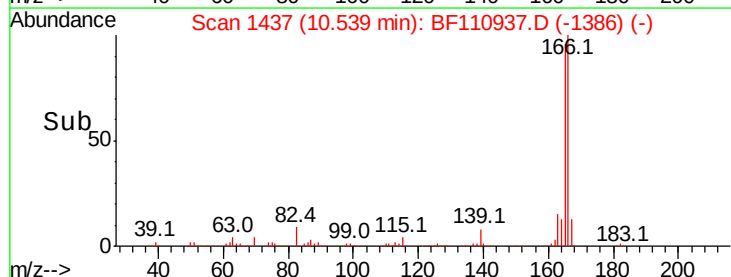
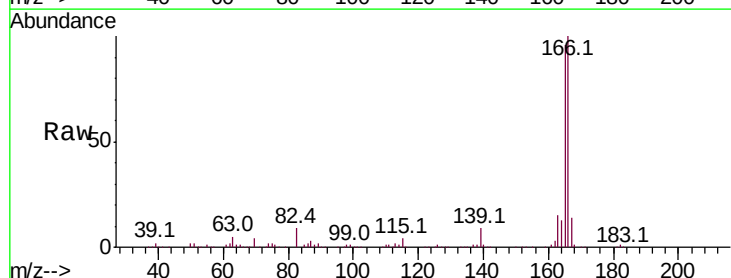
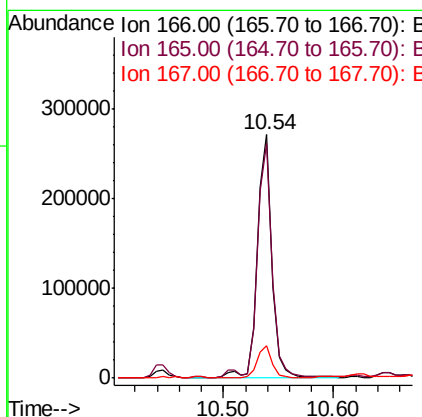
Manual Integrations
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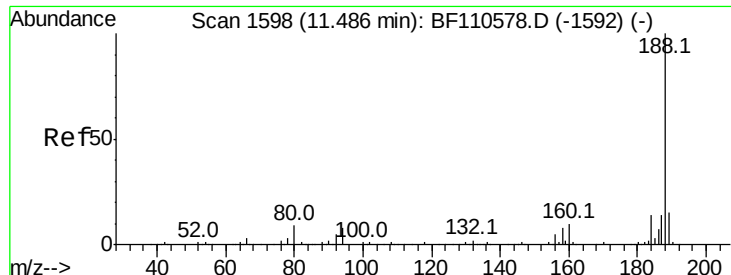
mohammad
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#58
Fluorene
Concen: 45.314 ng
RT: 10.54 min Scan# 1437
Delta R.T. 0.00 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	96.1	78.6	117.8	
167	13.5	10.8	16.2	





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.00 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

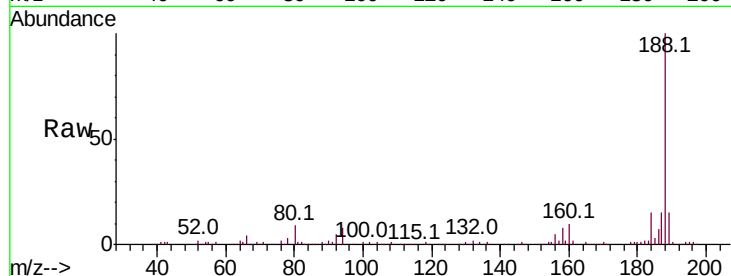
ClientSampleId :

DTW-02(11-13)

Tot Ion:	188	Resp:	139183
Ion Ratio	Lower	Upper	
188	100		
94	7.9	7.2	10.8
80	8.5	7.9	11.9

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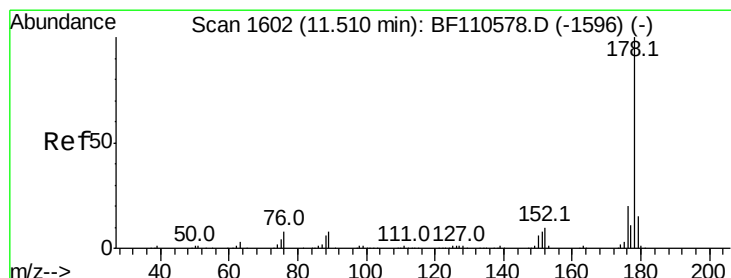
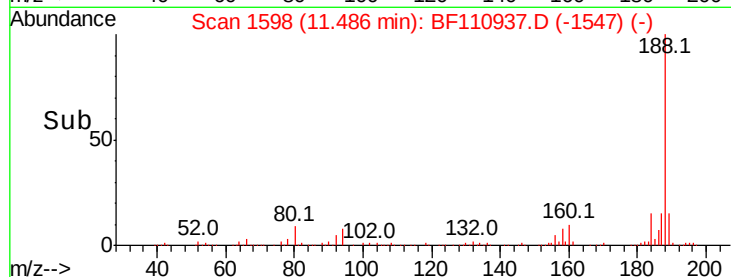
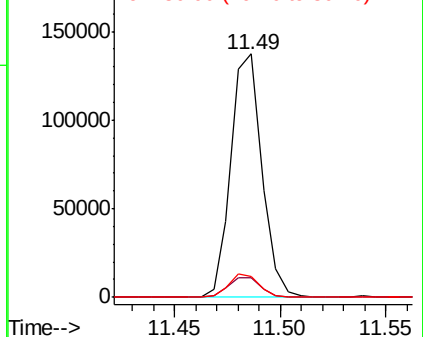
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 194.043 ng

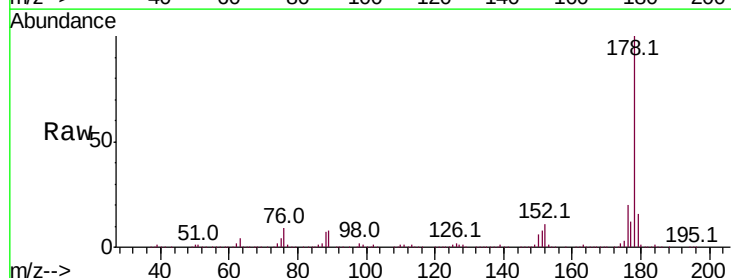
RT: 11.52 min Scan# 1603

Delta R.T. 0.01 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

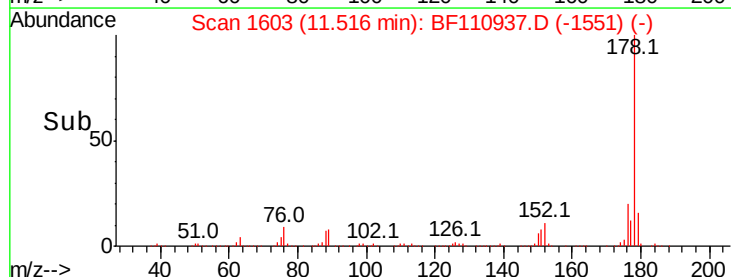
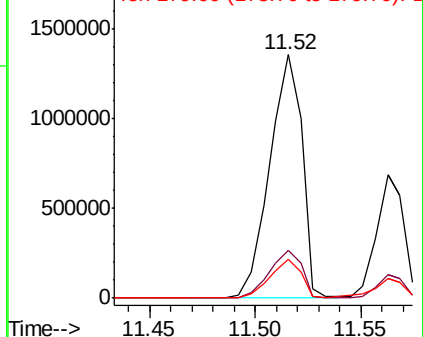
Tgt Ion:	178	Resp:	1446922
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.5	23.3
179	15.7	12.5	18.7

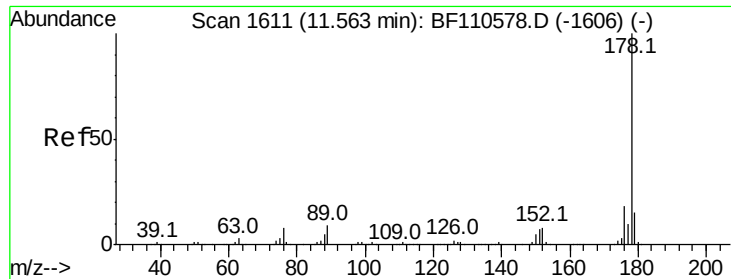


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 85.304 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.00 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

ClientSampleId :

DTW-02(11-13)

Tot Ion:178 Resp: 641658

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

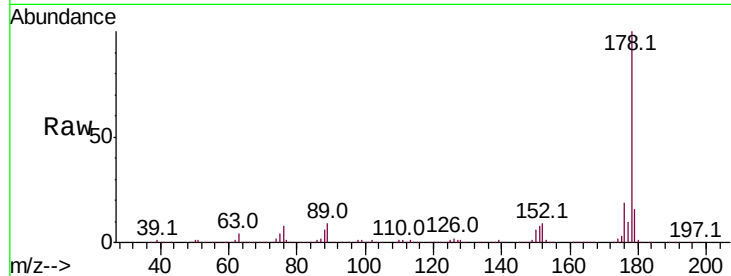
179 15.8 12.6 18.8

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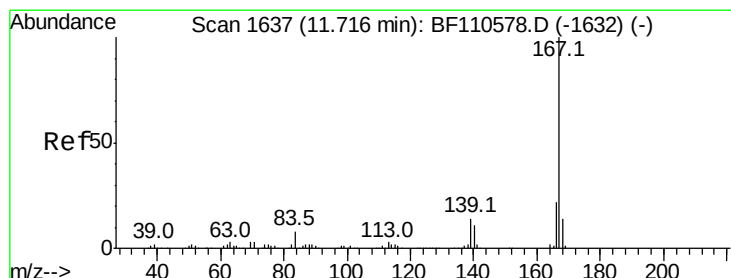
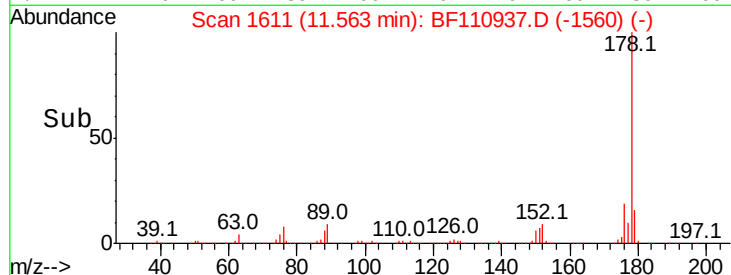
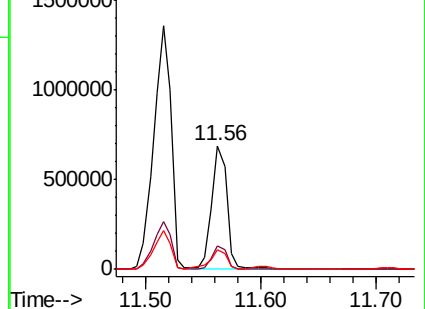
11/23/2018 11:49:15 AM



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: 14.080 ng

RT: 11.72 min Scan# 1637

Delta R.T. -0.00 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

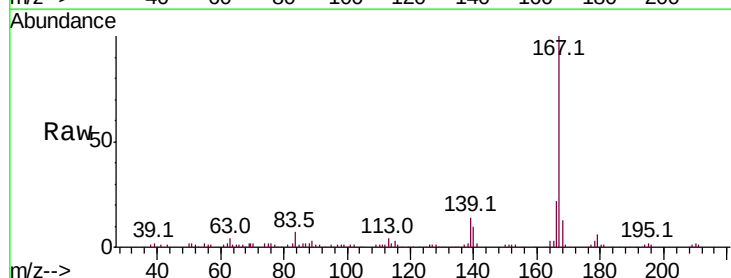
Tgt Ion:167 Resp: 101716

Ion Ratio Lower Upper

167 100

166 21.7 17.4 26.0

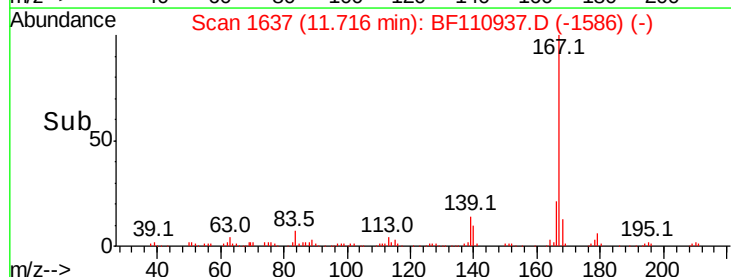
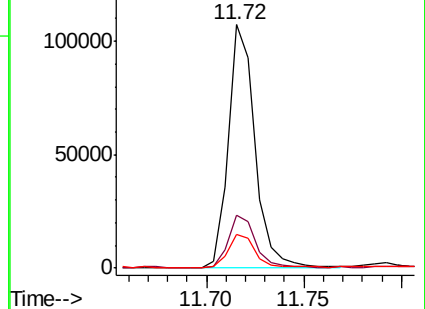
139 14.0 10.9 16.3

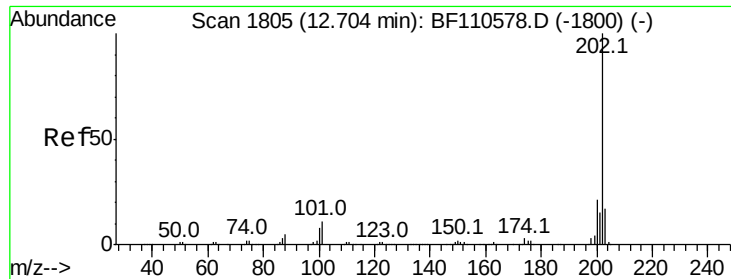


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 263.104 ng

RT: 12.72 min Scan# 1808

Delta R.T. 0.02 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

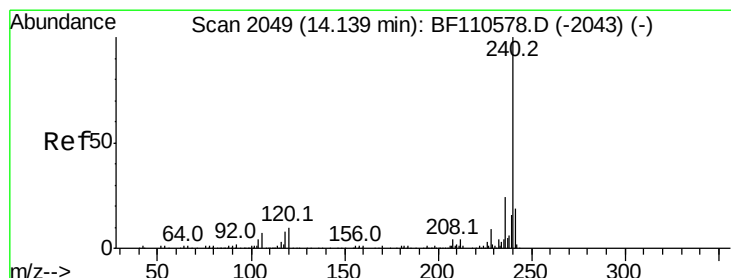
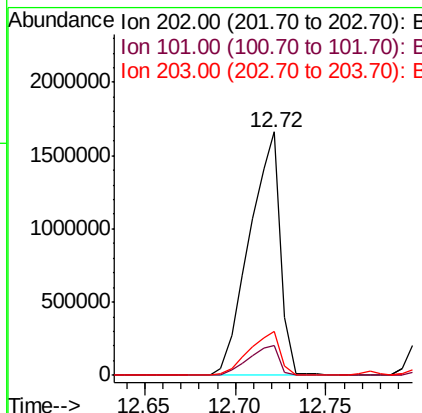
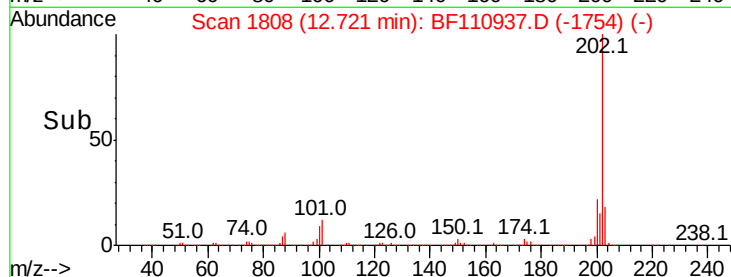
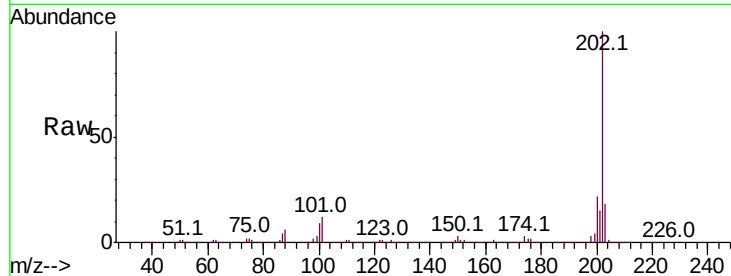
ClientSampleId :

DTW-02(11-13)

Tot Ion:	202	Resp:	1966929
Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.4
203	18.0	0.0	37.7

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

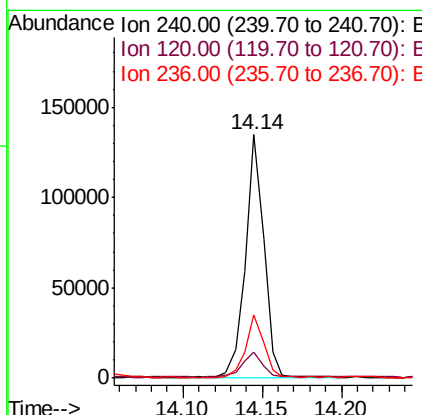
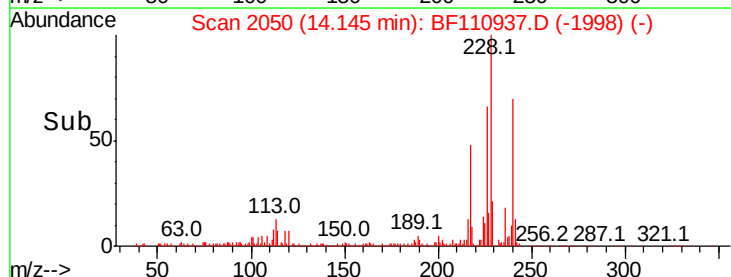
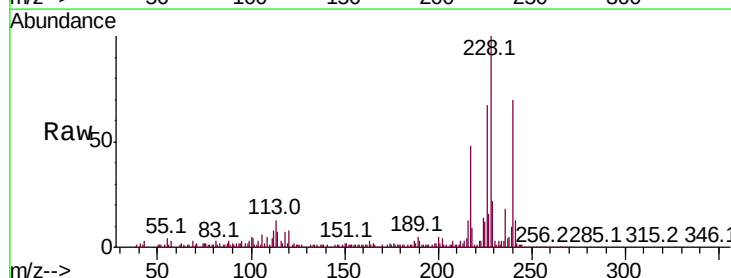
RT: 14.14 min Scan# 2050

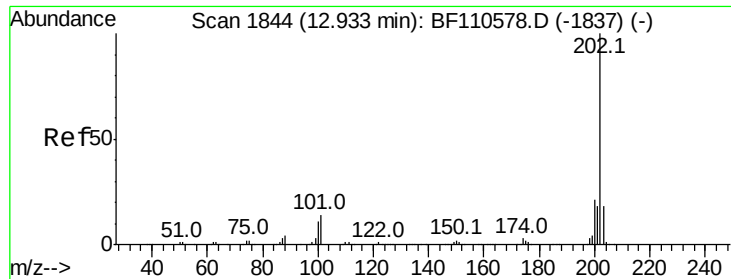
Delta R.T. 0.01 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Tgt Ion:	240	Resp:	108052
Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.3	12.5
236	25.7	21.2	31.8





#78

Pvrene

Concen: 191.841 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.02 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

ClientSampleId :

DTW-02(11-13)

Tot Ion:202 Resp: 1596072

Ion Ratio Lower Upper

202 100

200 22.0 17.8 26.6

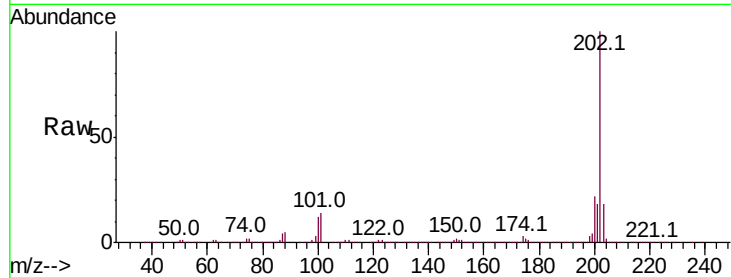
203 18.0 14.2 21.4

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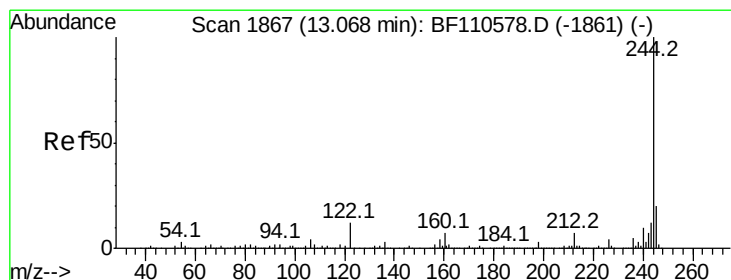
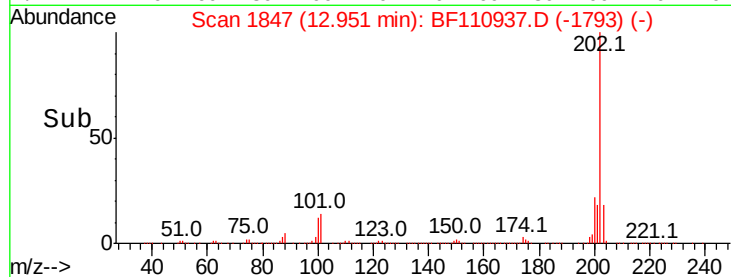
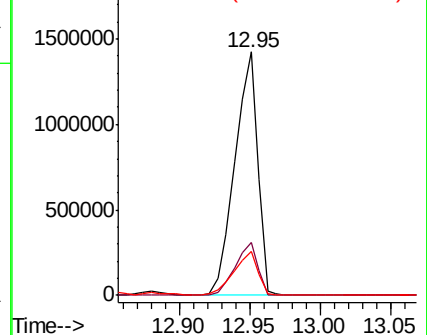
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 13.365 ng

RT: 13.06 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

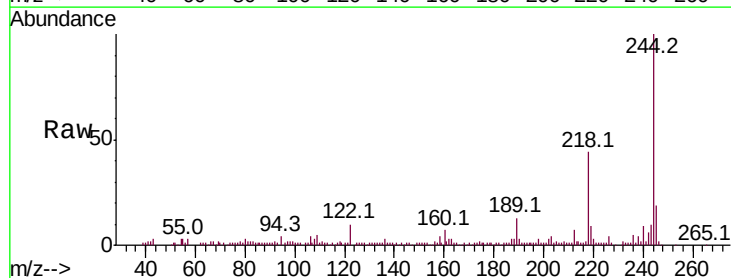
Tgt Ion:244 Resp: 77110

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

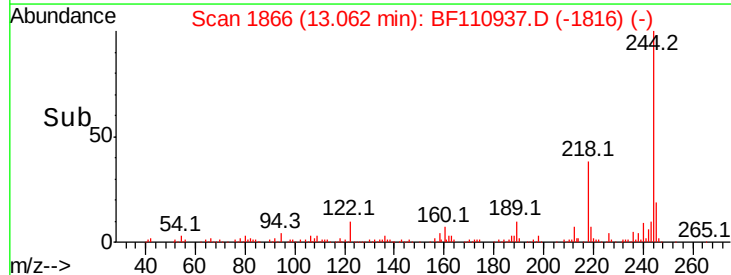
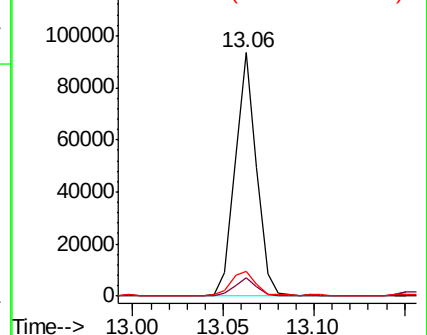
122 10.3 8.7 13.1

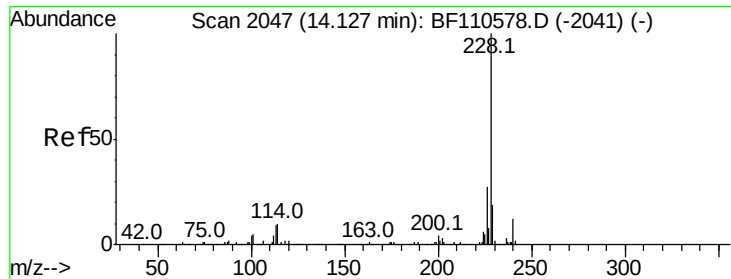


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





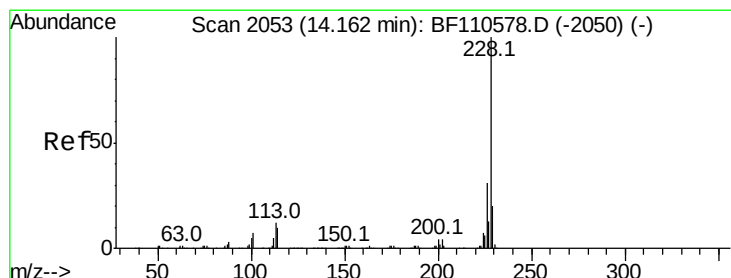
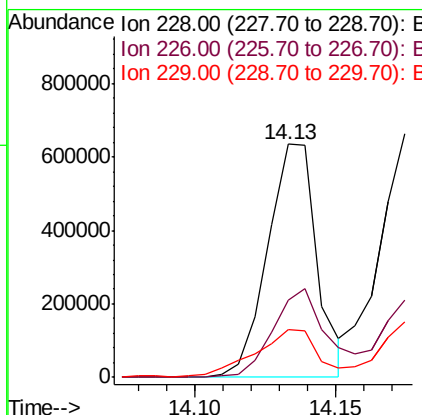
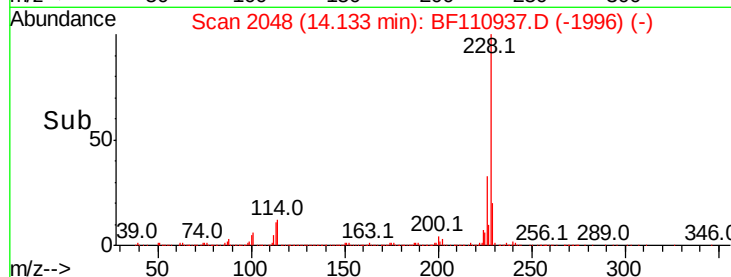
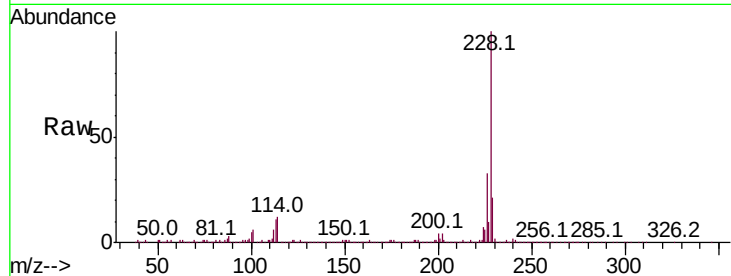
#81
Benzo(a)anthracene
Concen: 118.948 ng
RT: 14.13 min Scan# 2048
Delta R.T. 0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.0	22.1	33.1
229	20.7	15.6	23.4

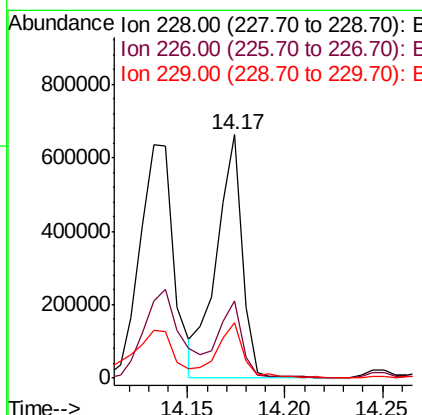
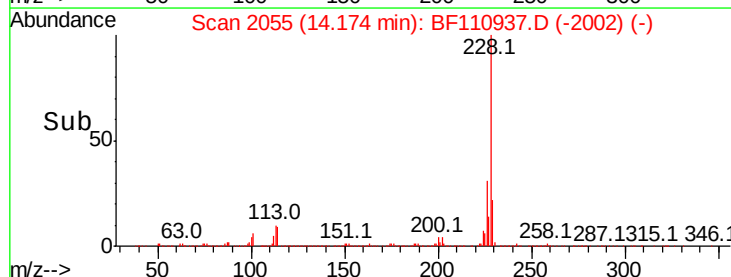
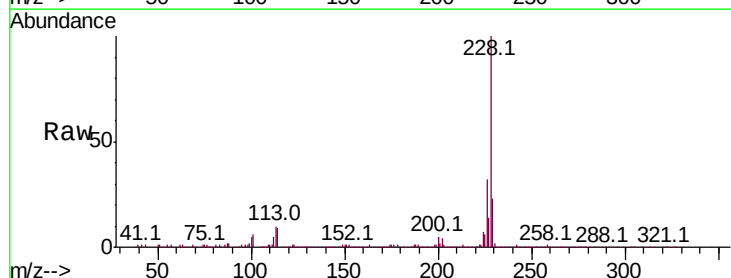
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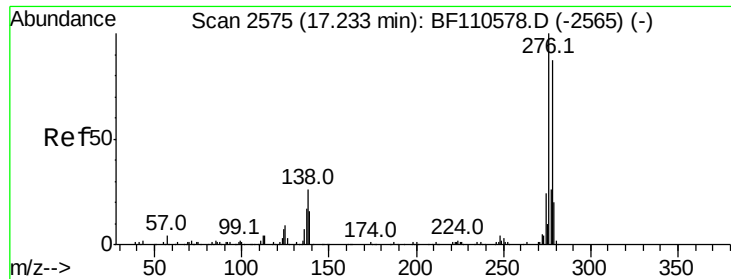
mohammad
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#83
Chrysene
Concen: 97.925 ng
RT: 14.17 min Scan# 2055
Delta R.T. 0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.7	37.1
229	22.6	15.9	23.9





#86

Indeno(1,2,3-cd)pyrene

Concen: 54.077 ng

RT: 17.27 min Scan# 2582

Delta R.T. 0.04 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

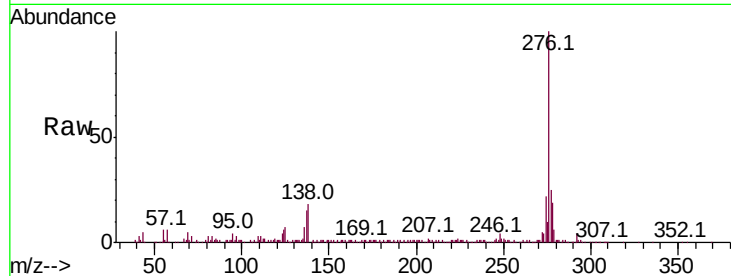
ClientSampleId :

DTW-02(11-13)

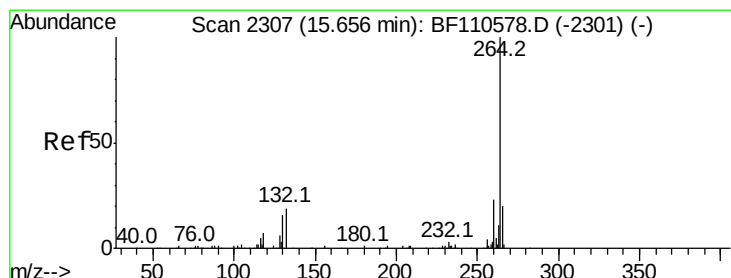
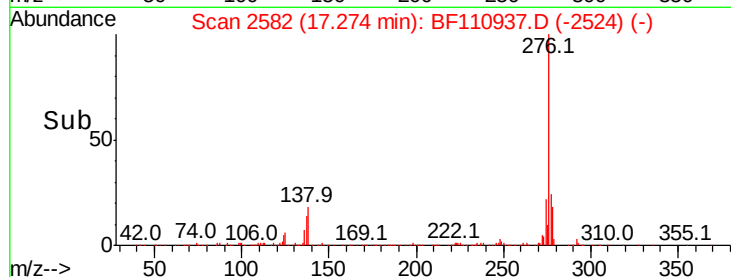
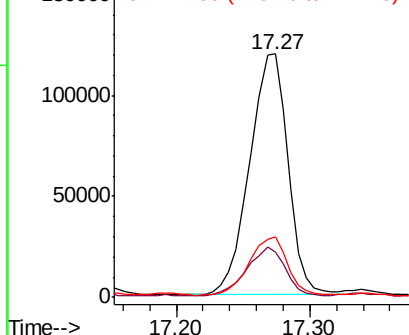
Tot Ion:	276	Resp:	238766
Ion Ratio	Lower	Upper	
276	100		
138	19.7	18.5	27.7
277	24.2	20.0	30.0

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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

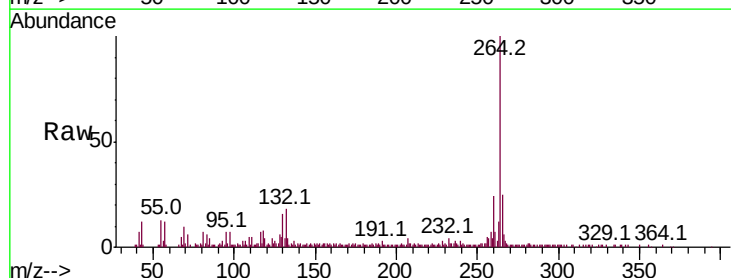
RT: 15.67 min Scan# 2310

Delta R.T. 0.02 min

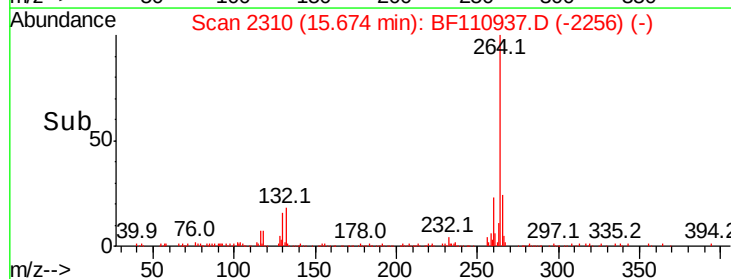
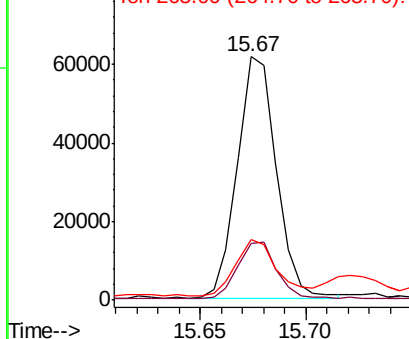
Lab File: BF110937.D

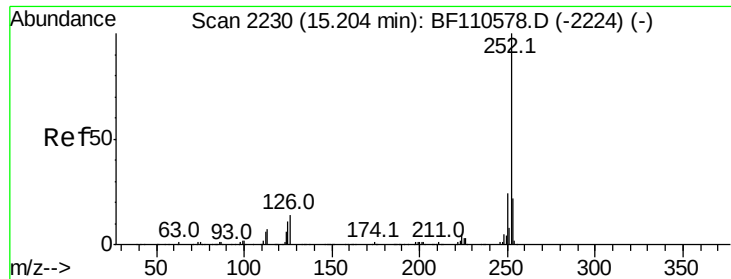
Acq: 21 Nov 2018 19:20

Tgt Ion:	264	Resp:	79290
Ion Ratio	Lower	Upper	
264	100		
260	23.5	18.7	28.1
265	24.7	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





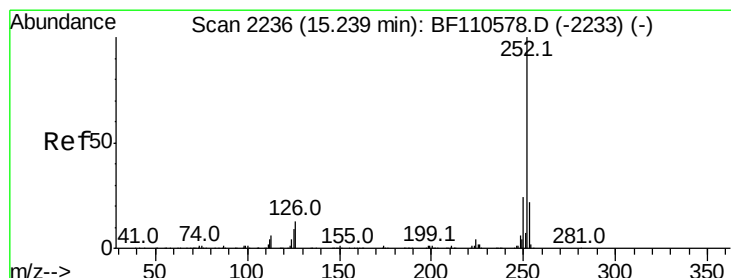
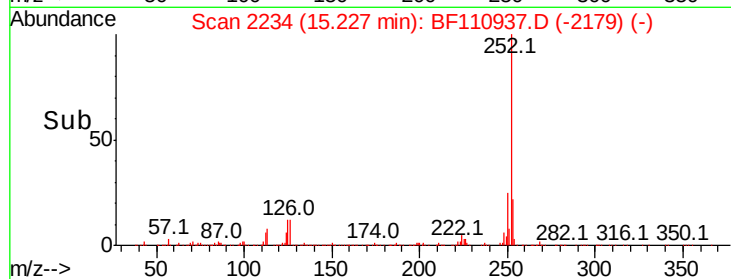
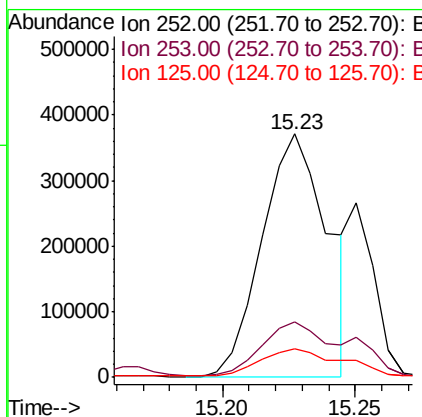
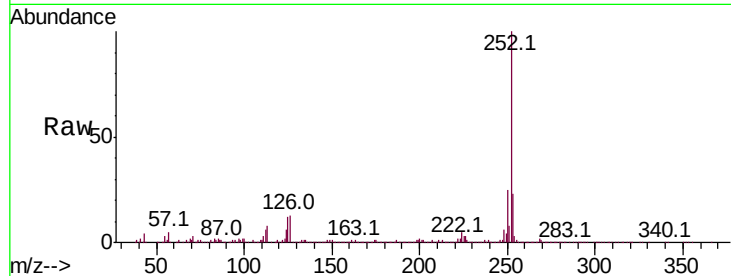
#88
Benzo(b)fluoranthene
Concen: 135.221 ng m
RT: 15.23 min Scan# 2234
Delta R.T. 0.02 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	11.9	8.2	12.4

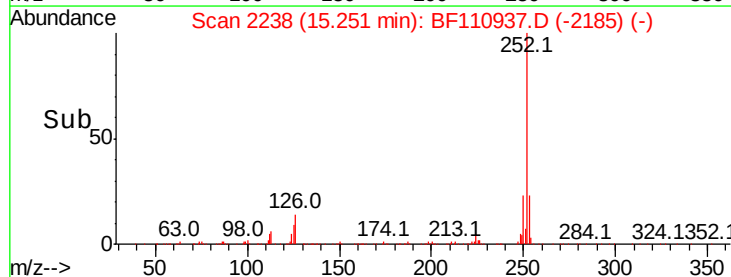
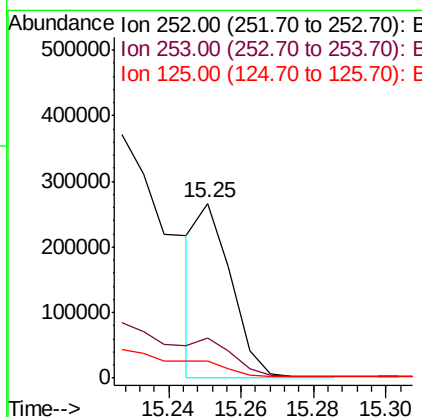
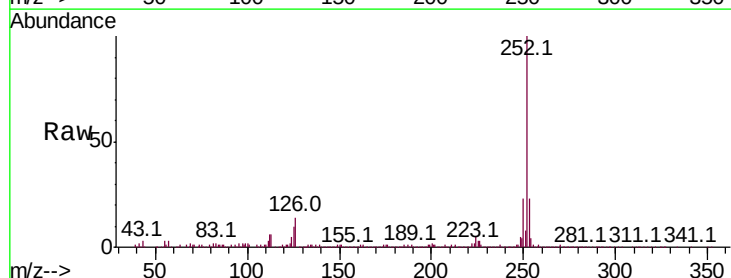
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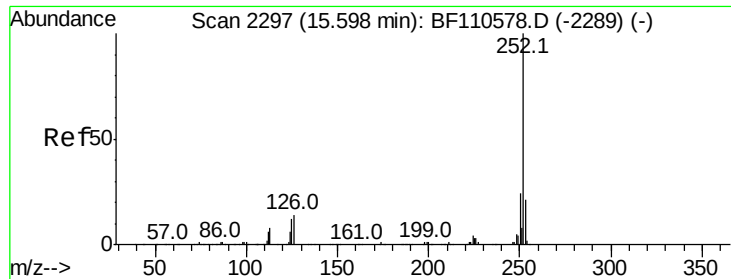
mohammad
11/23/2018 11:49:15 AM



#89
Benzo(k)fluoranthene
Concen: 37.229 ng m
RT: 15.25 min Scan# 2238
Delta R.T. 0.01 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	10.1	7.4	11.0





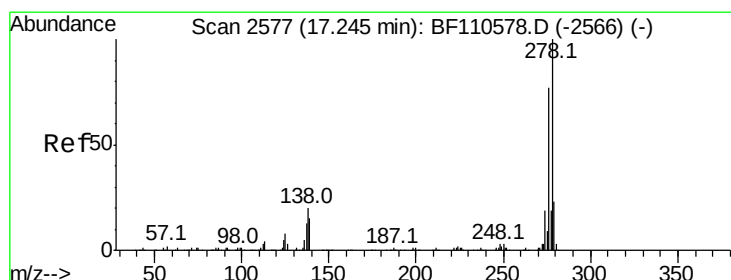
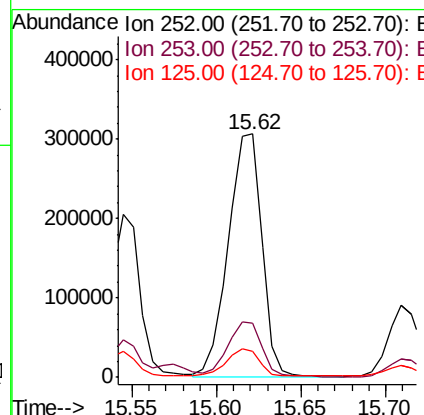
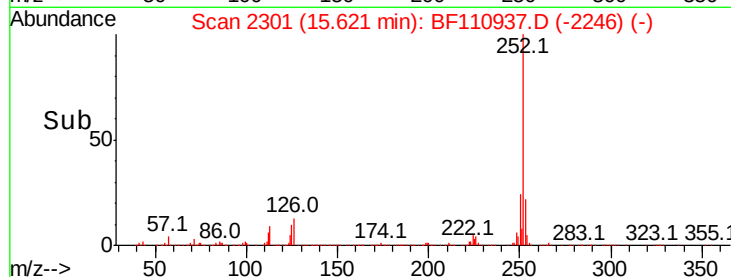
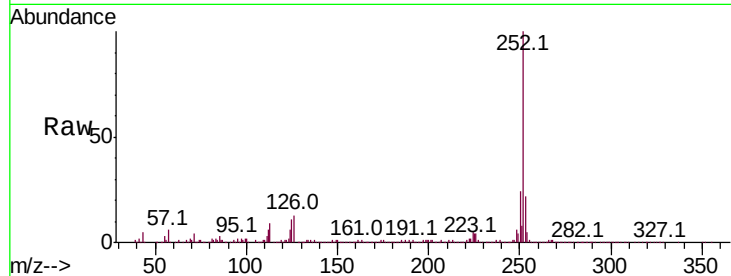
#90
Benzo(a)pyrene
Concen: 98.093 ng
RT: 15.62 min Scan# 2301
Delta R.T. 0.02 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.4
125	10.9	9.0	13.6

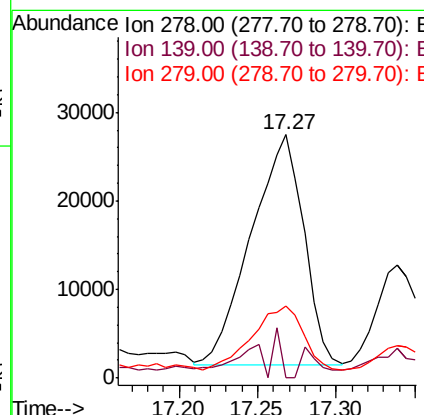
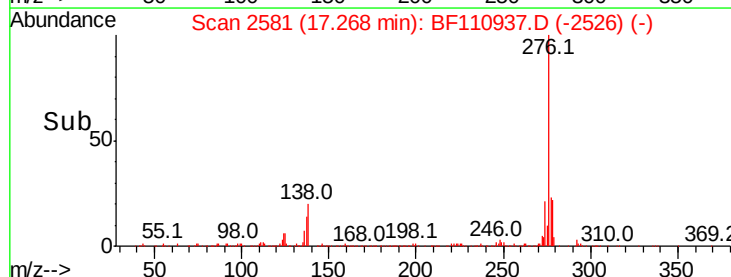
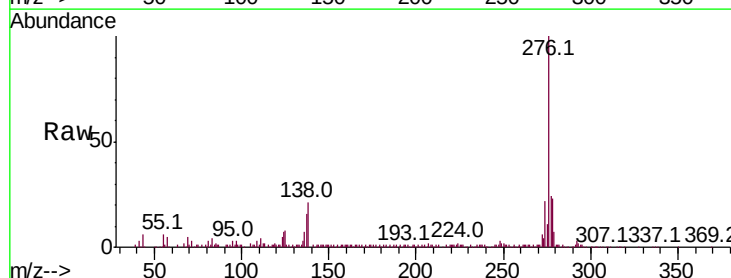
Manual Integrations
APPROVED

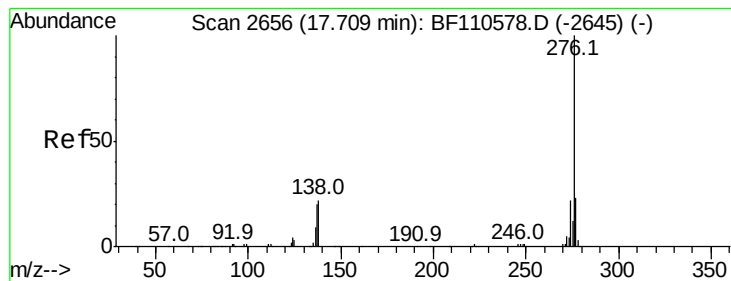
mohammad
11/23/2018 11:49:15 AM



#91
Dibenzo(a,h)anthracene
Concen: 16.509 ng m
RT: 17.27 min Scan# 2581
Delta R.T. 0.02 min
Lab File: BF110937.D
Acq: 21 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	29.4	19.0	28.4#





#92

Benzo(a,h,i)perylene

Concen: 56.258 ng

RT: 17.76 min Scan# 2664

Delta R.T. 0.05 min

Lab File: BF110937.D

Acq: 21 Nov 2018 19:20

Instrument :

BNA_F

ClientSampleId :

DTW-02(11-13)

Tot Ion:	276	Resp:	203573
Ion Ratio	Lower	Upper	
276	100		
277	25.0	18.8	28.2
138	20.6	16.0	24.0

Manual Integrations
APPROVED

mohammad
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