

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112618\
 Data File : BF110980.D
 Acq On : 26 Nov 2018 22:51
 Operator : JU/SJ
 Sample : J5774-07 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112118-B

Manual Integrations
 APPROVED

mohammad
 11/27/2018 11:48:09 AM

Quant Time: Nov 27 06:06:23 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	6.94	152	54204	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	200460	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	79344	20.00	ng	0.00
64) Phenanthrene-d10	11.48	188	143460	20.00	ng	0.00
76) Chrysene-d12	14.14	240	85814	20.00	ng	0.00
87) Perylene-d12	15.67	264	69861	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	185367	56.71	ng	0.00
7) Phenol-d6	6.56	99	224450	52.69	ng	0.00
23) Nitrobenzene-d5	7.50	82	126164	36.02	ng	0.00
42) 2,4,6-Tribromophenol	10.78	330	39315	49.89	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	205329	37.49	ng	0.00
79) Terphenyl-d14	13.06	244	172876	39.22	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.58	94	11937	2.488	ng	93
31) Naphthalene	8.25	128	59562	6.339	ng	99
37) 2-Methylnaphthalene	8.94	142	39959	6.438	ng	100
38) 1-Methylnaphthalene	9.03	142	36056m	5.972	ng	
49) Acenaphthylene	9.85	152	49687	6.588	ng	99
50) Dimethylphthalate	9.69	163	27348	4.700	ng	97
52) Acenaphthene	10.01	154	65088	13.462	ng	98
55) Dibenzofuran	10.19	168	72335	10.255	ng	99
58) Fluorene	10.53	166	134856	24.574	ng	100
71) Phenanthrene	11.51	178	951427	125.220	ng	100
72) Anthracene	11.56	178	328384	42.439	ng	99
73) Carbazole	11.72	167	57002	7.590	ng	97
75) Fluoranthene	12.71	202	1205442	154.362	ng	99
78) Pyrene	12.95	202	1113853	177.715	ng	99
81) Benzo(a)anthracene	14.13	228	476175	93.988	ng	98
83) Chrysene	14.17	228	387105	77.617	ng	98
86) Indeno(1,2,3-cd)pyrene	17.27	276	152599	42.626	ng	96
88) Benzo(b)fluoranthene	15.22	252	408668m	99.577	ng	
89) Benzo(k)fluoranthene	15.24	252	118856m	28.137	ng	
90) Benzo(a)pyrene	15.62	252	302648	79.223	ng	100
91) Dibenzo(a,h)anthracene	17.27	278	38942	12.355	ng	# 89
92) Benzo(g,h,i)perylene	17.76	276	139524	45.910	ng	96

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

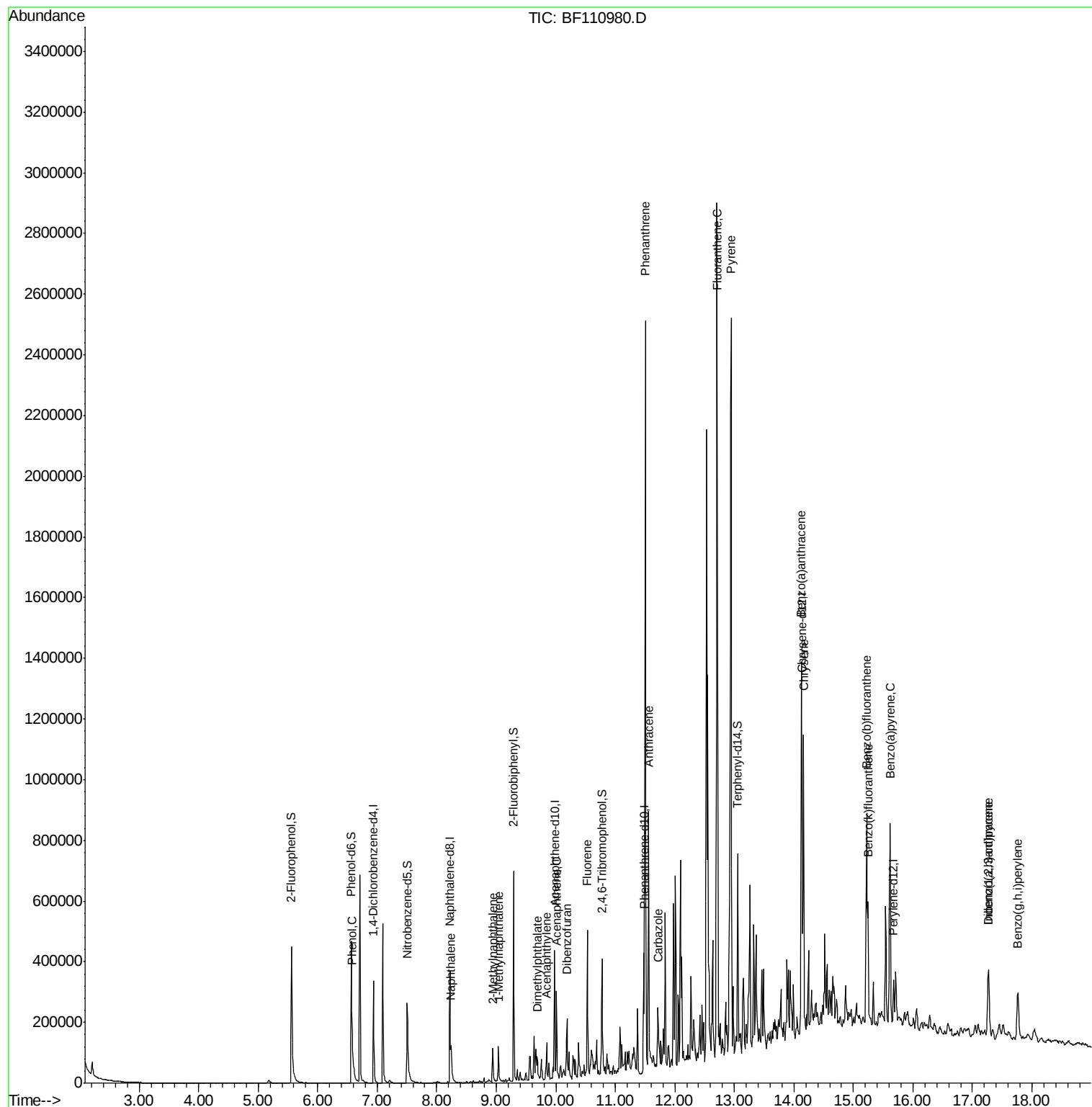
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112618\
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Acq On : 26 Nov 2018 22:51
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

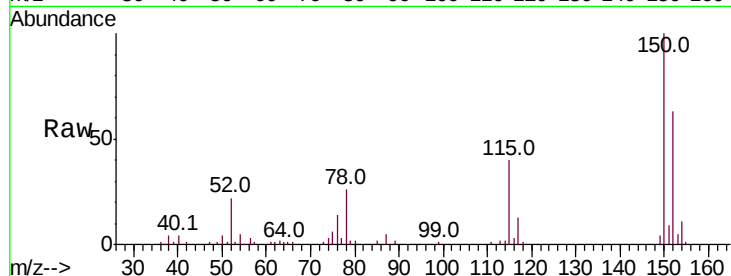
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	122.7	184.1
115	63.4	49.1	73.7

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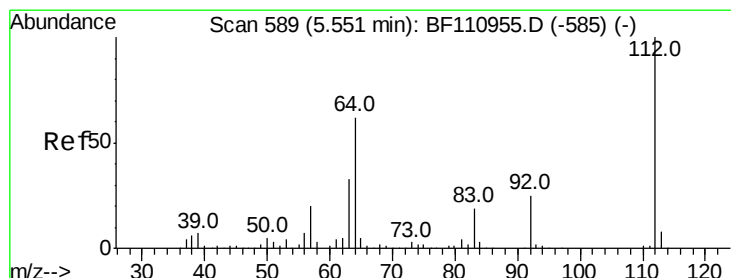
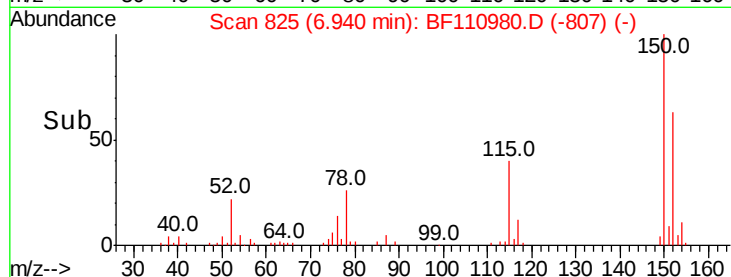
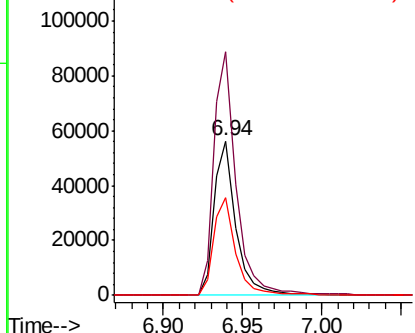


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

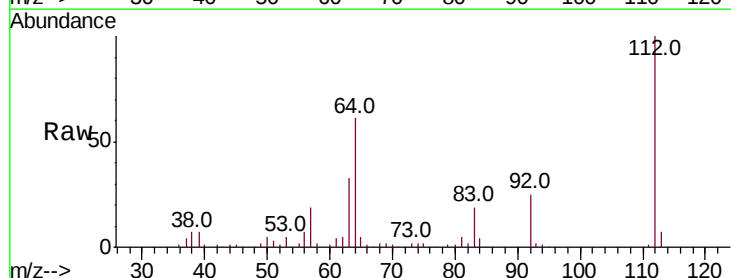
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 56.711 ng
RT: 5.56 min Scan# 590
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	44.1	66.1
63	33.2	23.7	35.5

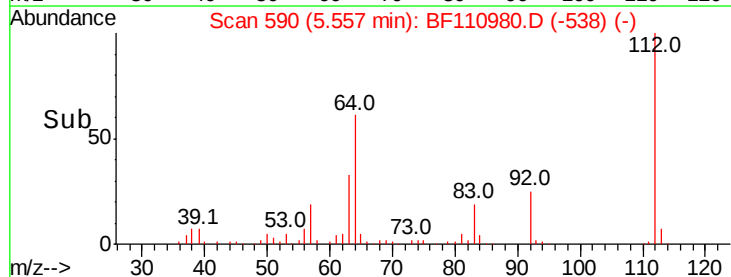
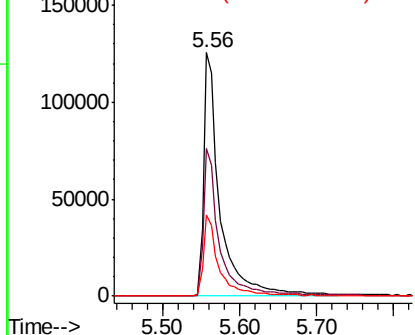


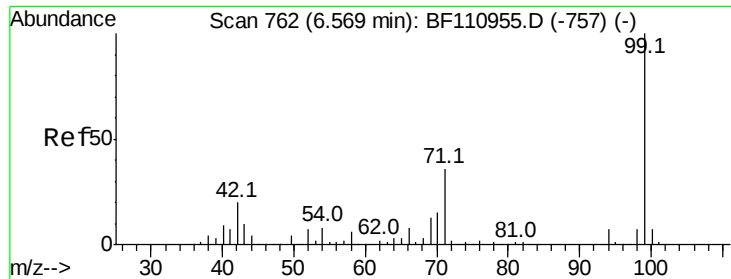
Abundance

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: 52.693 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Instrument :

BNA_F

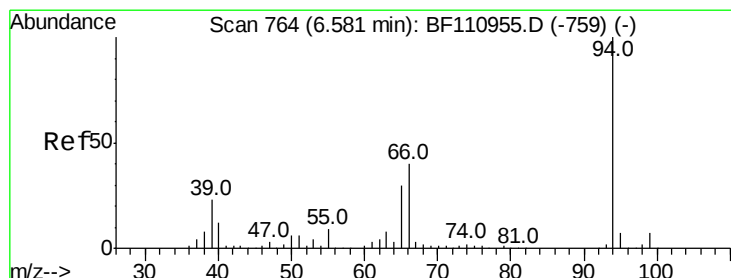
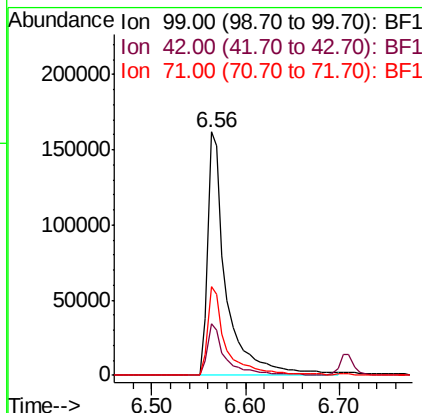
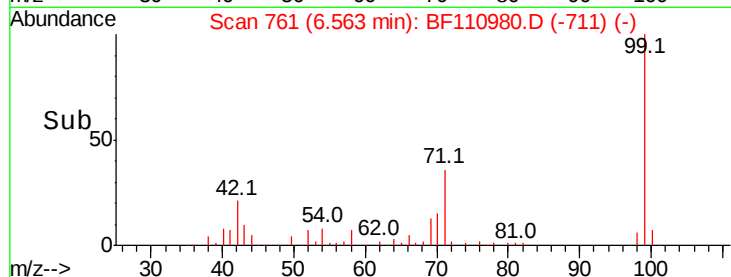
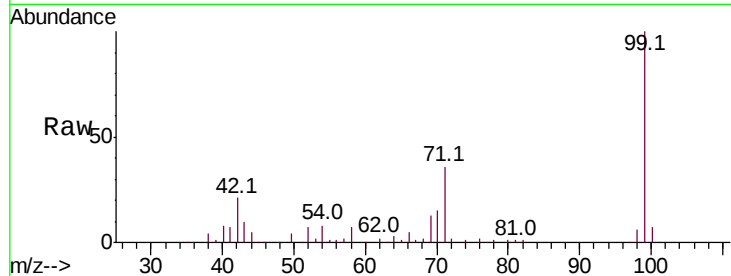
ClientSampleId :

SU-03-112118-B

Tot Ion:	99	Resp:	224450
Ion	Ratio	Lower	Upper
99	100		
42	21.0	15.8	23.6
71	36.3	28.0	42.0

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#10

Phenol

Concen: 2.488 ng

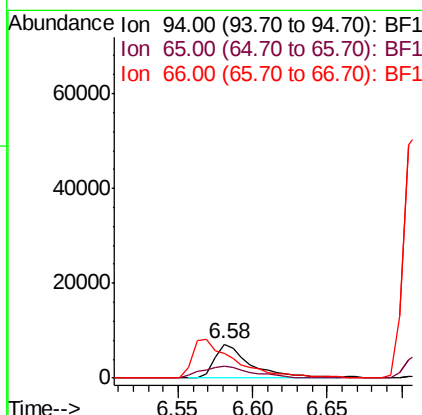
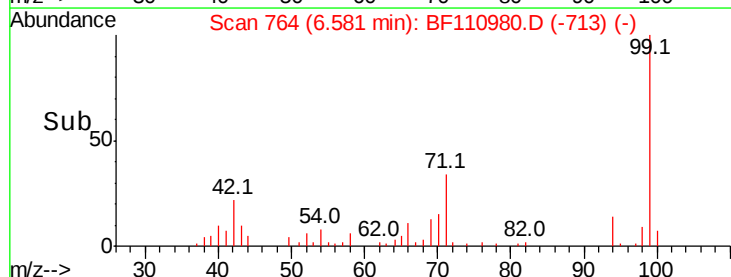
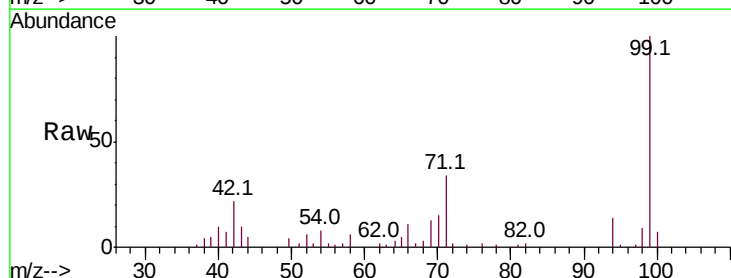
RT: 6.58 min Scan# 764

Delta R.T. 0.00 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Tgt Ion:	94	Resp:	11937
Ion	Ratio	Lower	Upper
94	100		
65	34.3	25.3	65.3
66	74.0	54.5	94.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. 0.00 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Instrument :

BNA_F

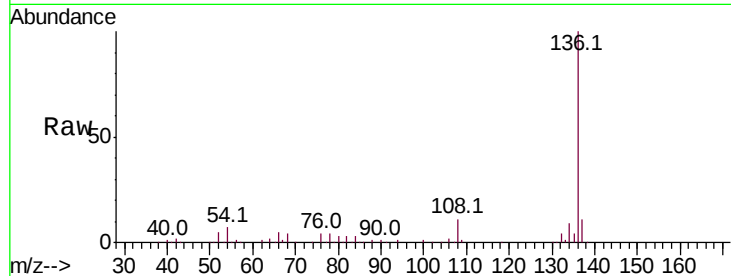
ClientSampleId :

SU-03-112118-B

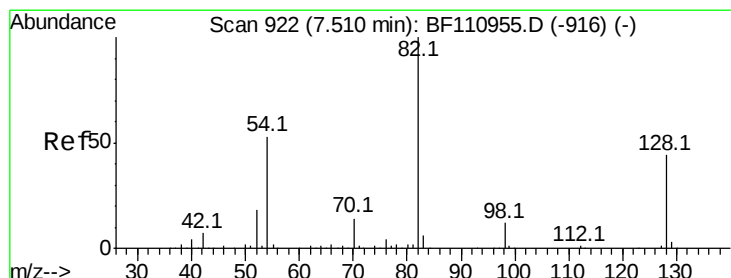
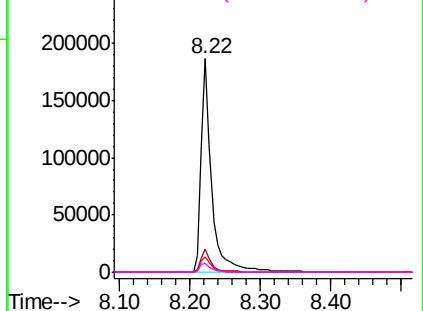
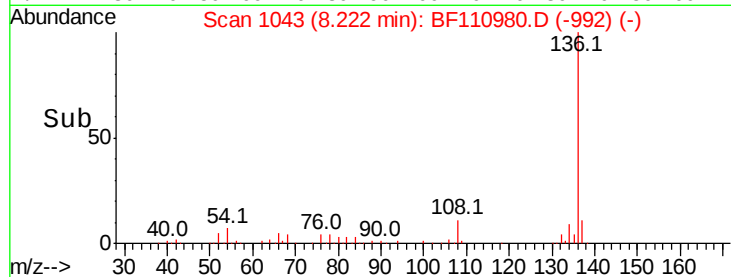
Tot Ion	Ratio	Resp	Lower	Upper
136	100	200460		
137	10.9		8.8	13.2
54	7.4		5.4	8.2
68	4.4		4.2	6.2

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 36.019 ng

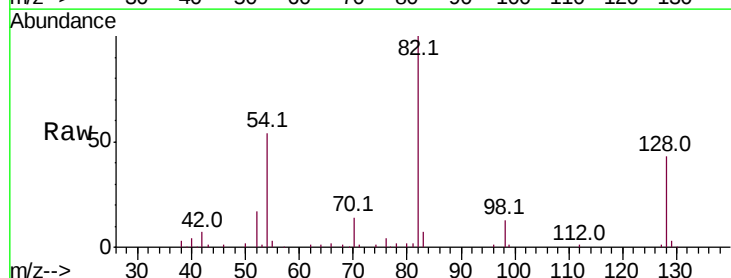
RT: 7.50 min Scan# 921

Delta R.T. -0.01 min

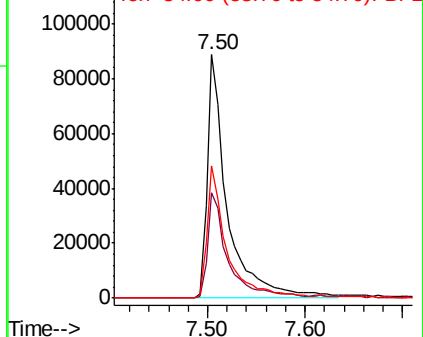
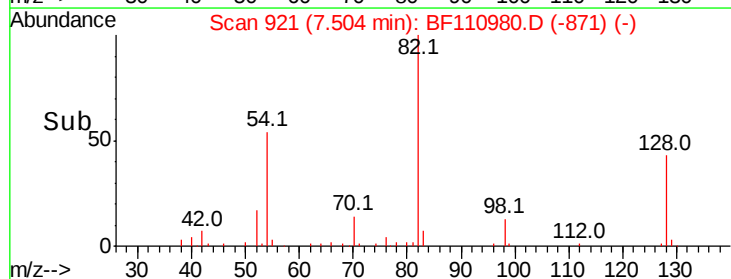
Lab File: BF110980.D

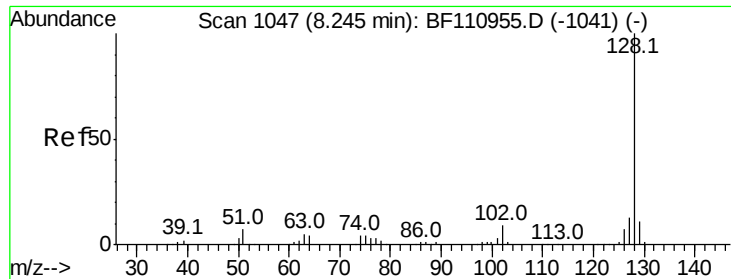
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	126164		
128	43.4		34.2	51.2
54	54.1		38.6	58.0



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





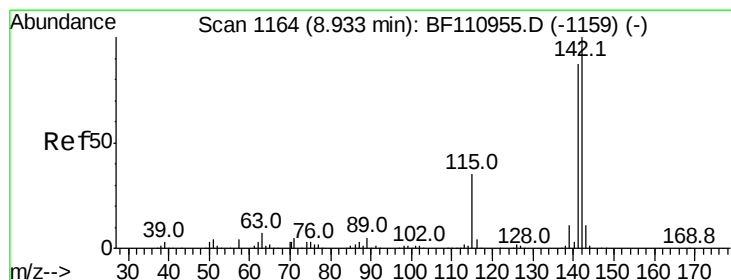
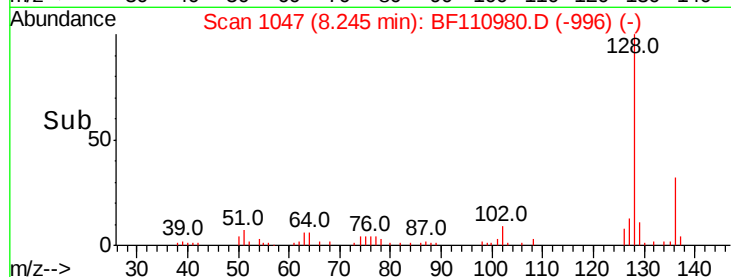
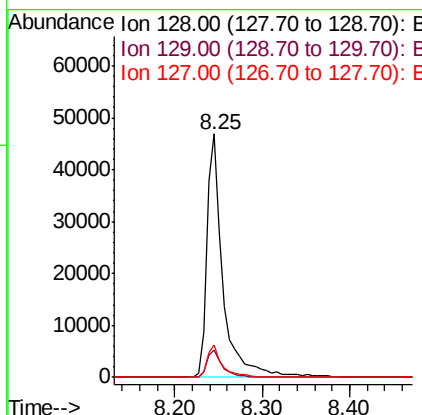
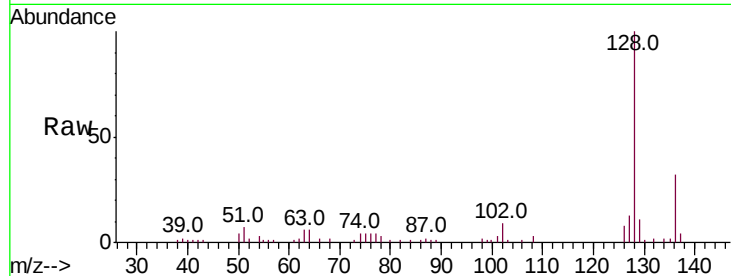
#31
Naphthalene
Concen: 6.339 ng
RT: 8.25 min Scan# 1047
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.3	10.8	16.2

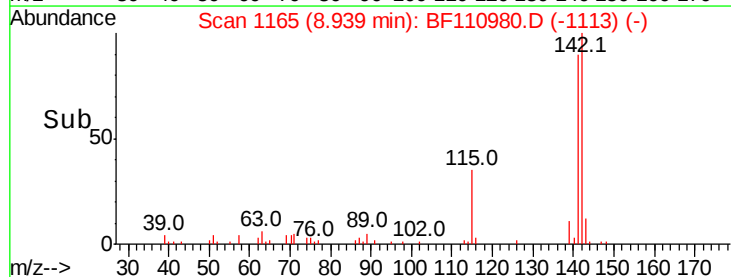
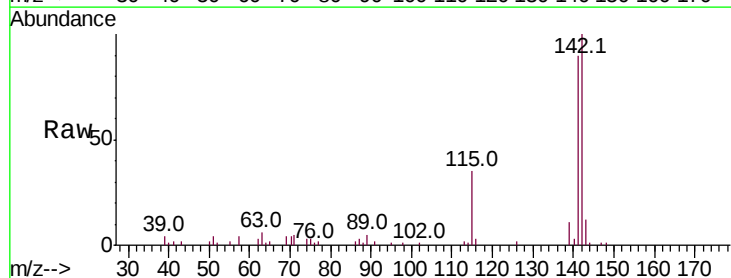
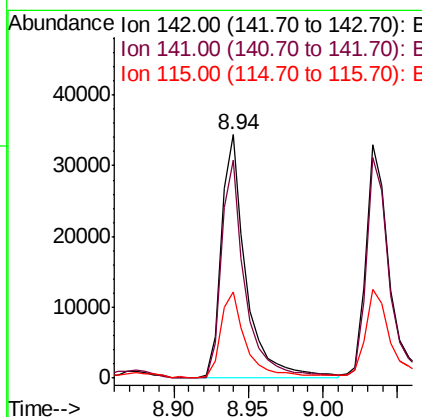
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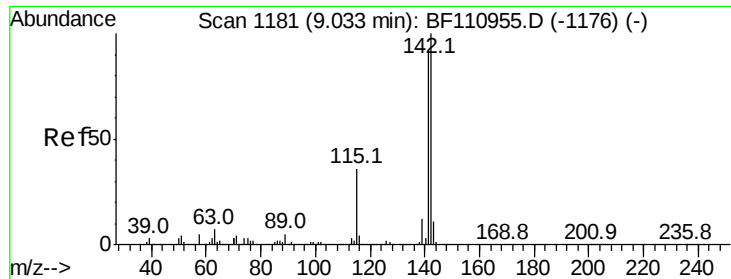
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#37
2-Methylnaphthalene
Concen: 6.438 ng
RT: 8.94 min Scan# 1165
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.4	107.2
115	35.4	28.7	43.1





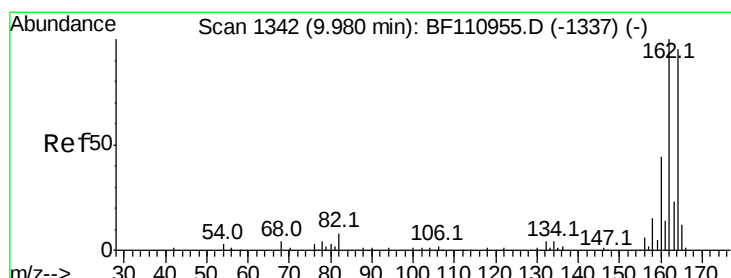
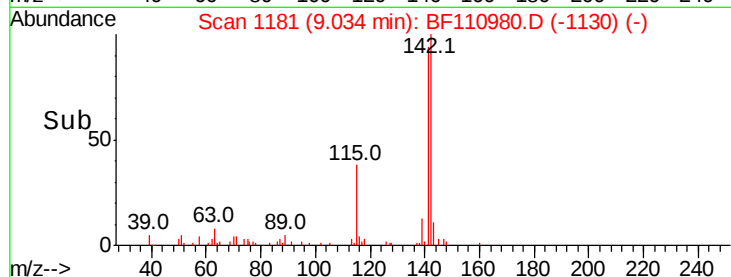
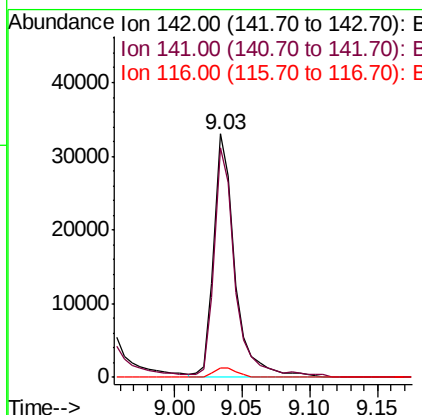
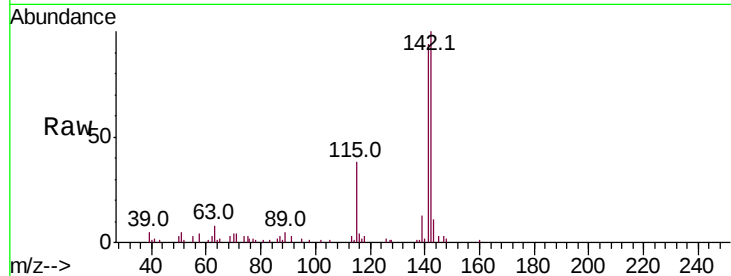
#38
1-Methylnaphthalene
Concen: 5.972 ng m
RT: 9.03 min Scan# 1181
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100			
141	94.4	74.2	111.4	
116	4.1	2.6	4.0#	

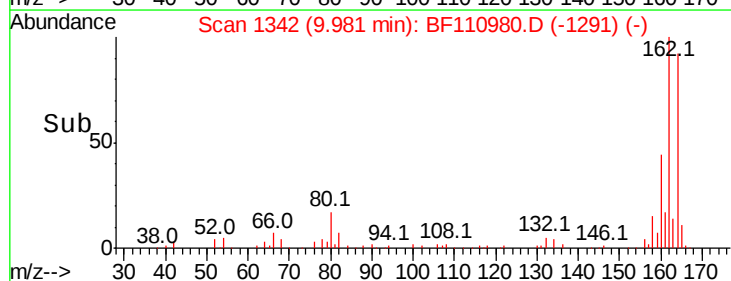
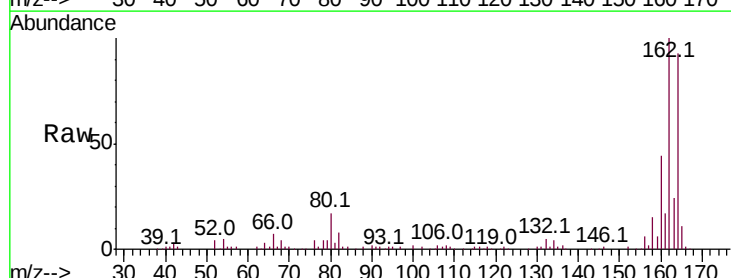
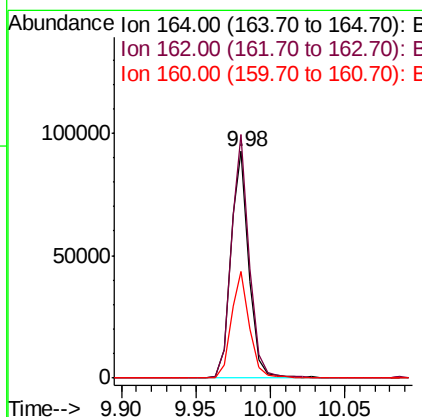
Manual Integrations
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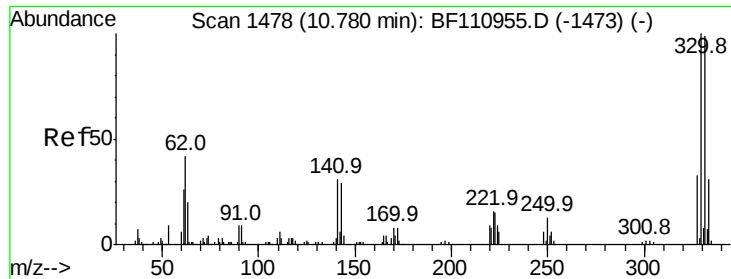
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	107.5	83.0	124.6	
160	47.2	37.0	55.6	





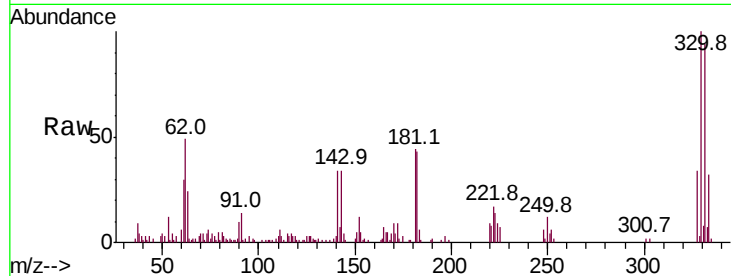
#42
 2,4,6-Tribromophenol
 Concen: 49.893 ng
 RT: 10.78 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

Instrument :
 BNA_F
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 SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.1	115.7
141	41.3	27.0	40.4

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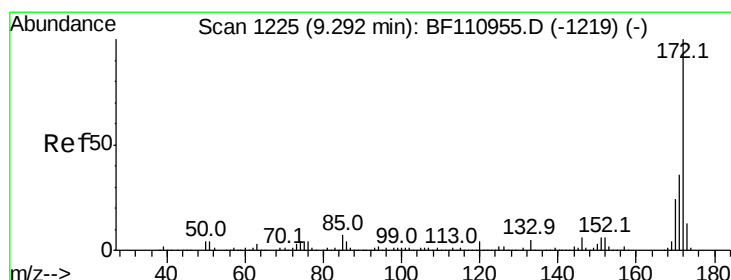
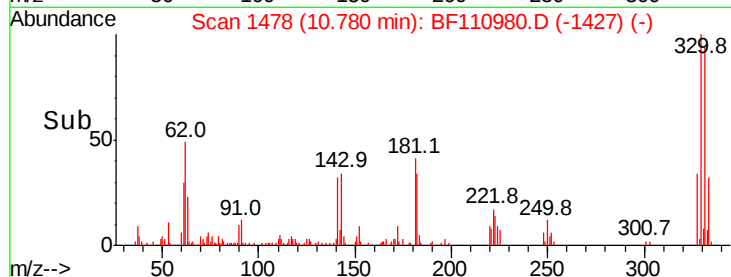
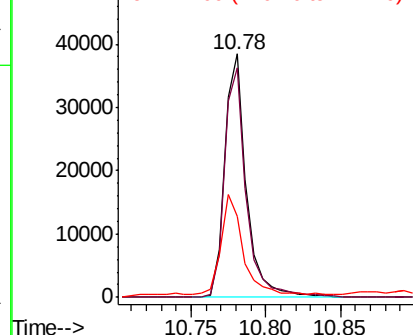


Abundance

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: 37.492 ng
 RT: 9.29 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

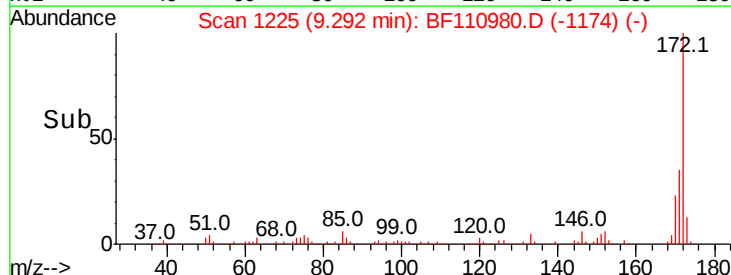
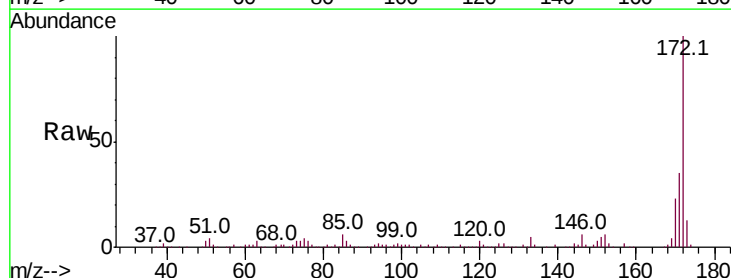
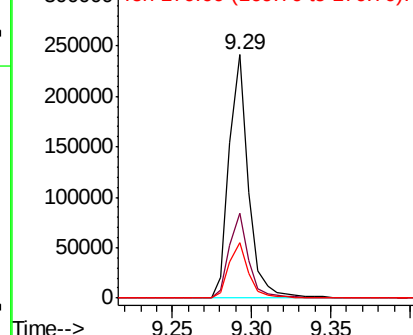
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	43.0
170	22.9	19.7	29.5

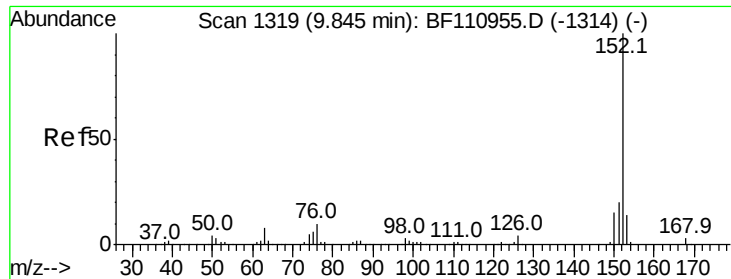
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





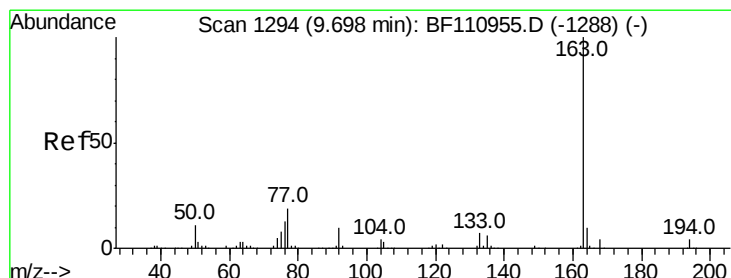
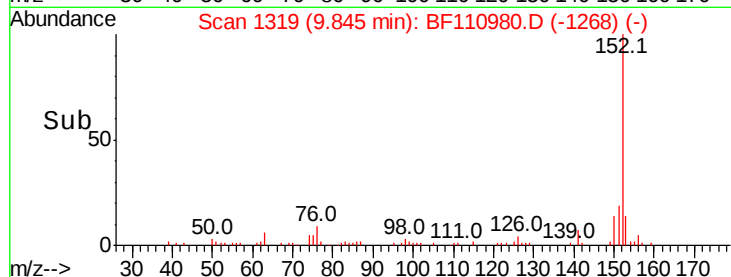
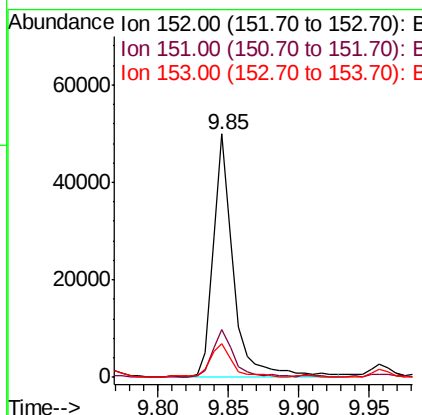
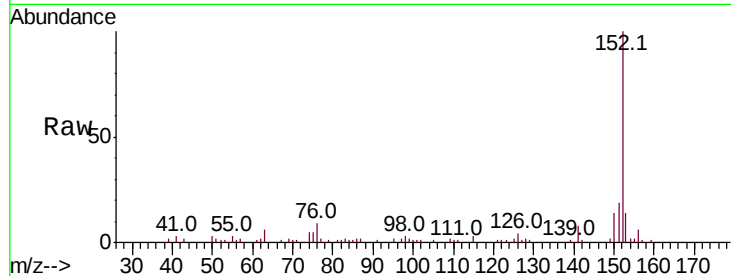
#49
Acenaphthylene
Concen: 6.588 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.8	23.8
153	13.7	10.4	15.6

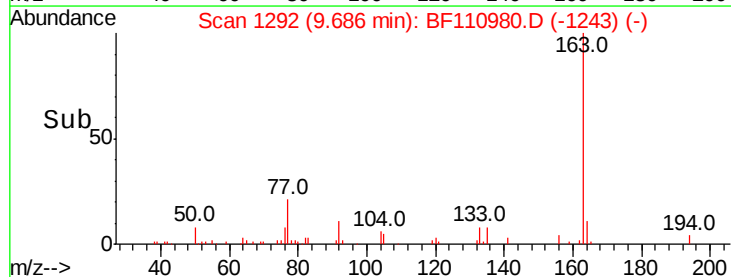
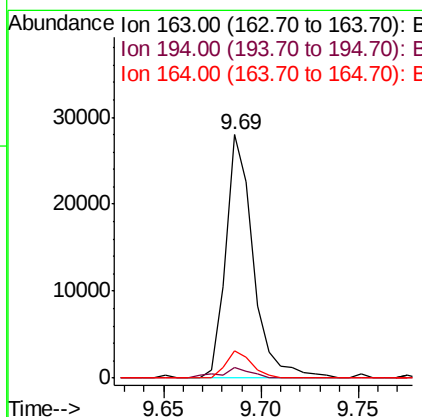
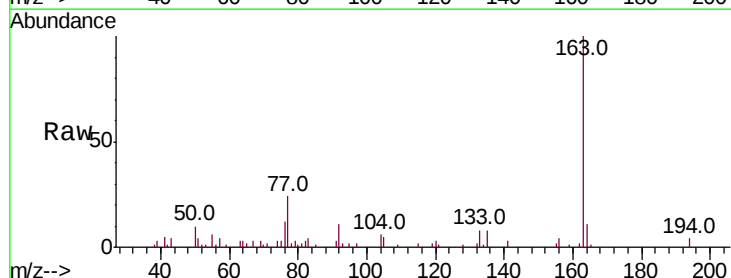
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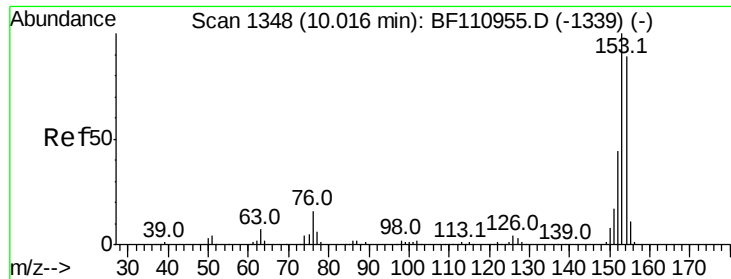
mohammad
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#50
Dimethylphthalate
Concen: 4.700 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.2	4.8
164	11.4	8.1	12.1





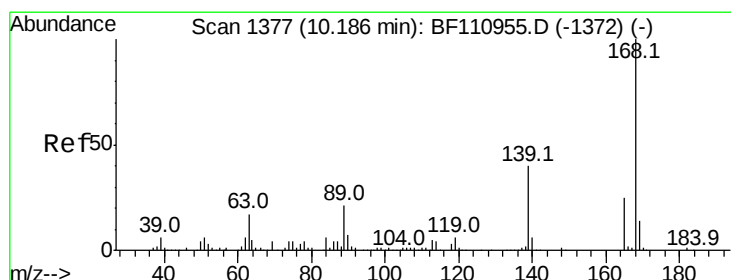
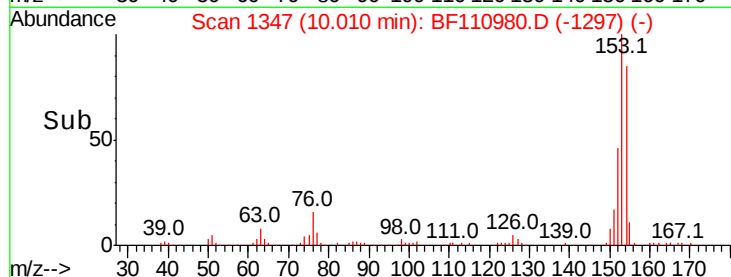
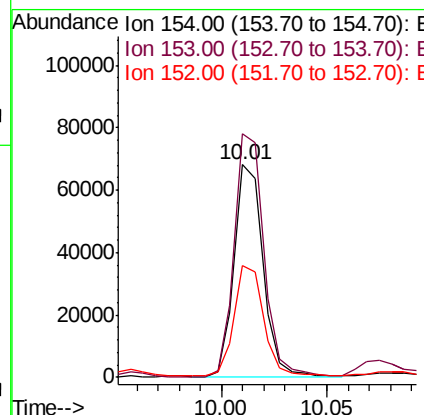
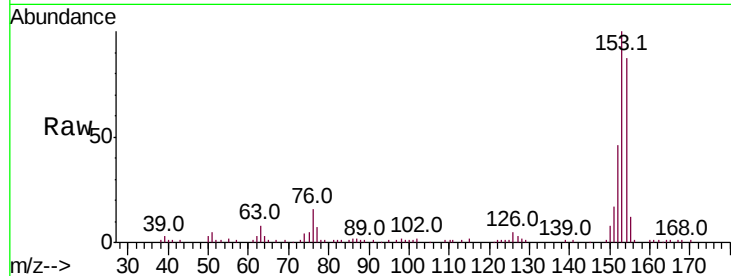
#52
Acenaphthene
Concen: 13.462 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.4	90.1	135.1
152	52.8	43.4	65.2

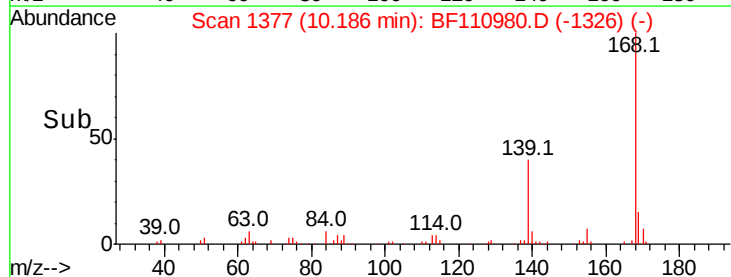
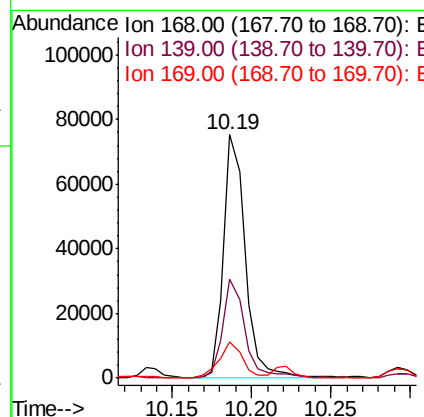
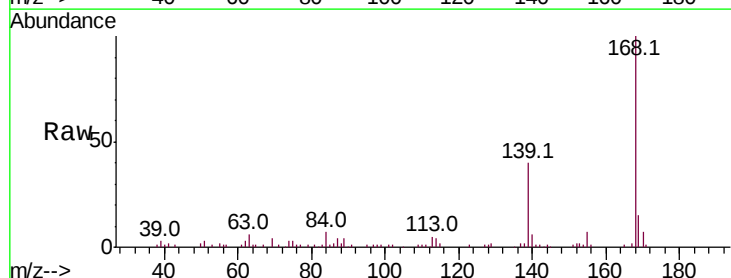
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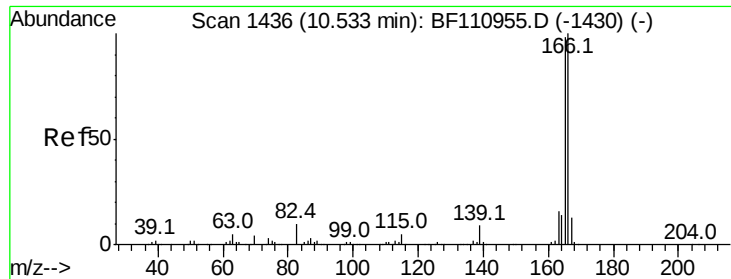
mohammad
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#55
Dibenzofuran
Concen: 10.255 ng
RT: 10.19 min Scan# 1377
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
168	100		
139	40.4	33.0	49.6
169	14.8	11.3	16.9





#58

Fluorene

Concen: 24.574 ng

RT: 10.53 min Scan# 1436

Delta R.T. 0.00 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Instrument :

BNA_F

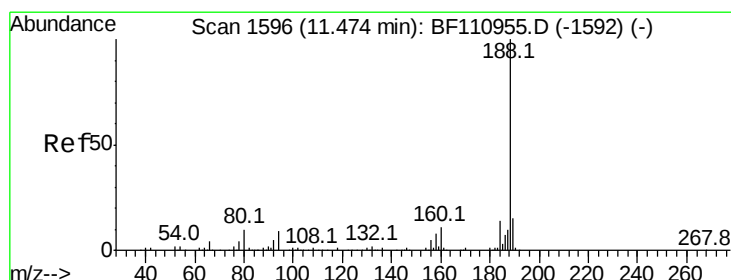
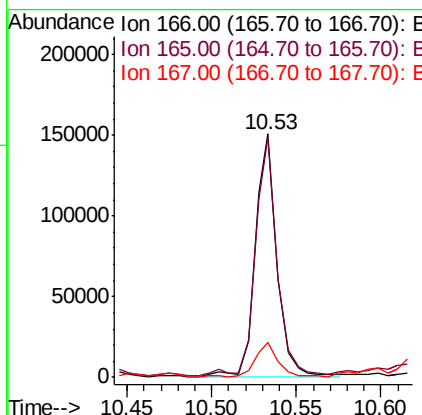
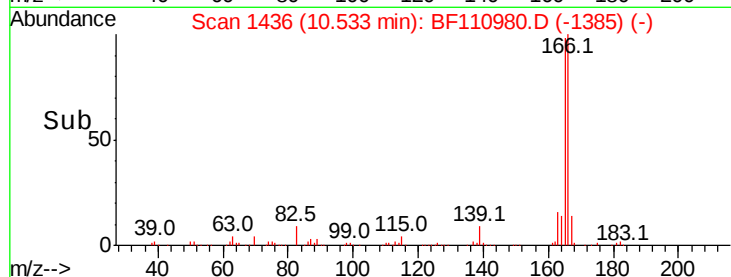
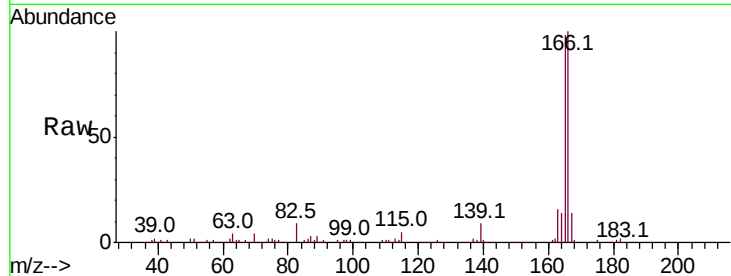
ClientSampleId :

SU-03-112118-B

Tot Ion:	166	Resp:	134856
Ion Ratio	Lower	Upper	
166	100		
165	98.3	78.6	117.8
167	14.1	10.8	16.2

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#64

Phenanthrene-d10

Concen: 20.000 ng

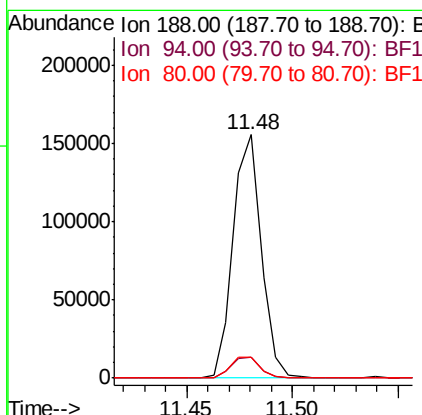
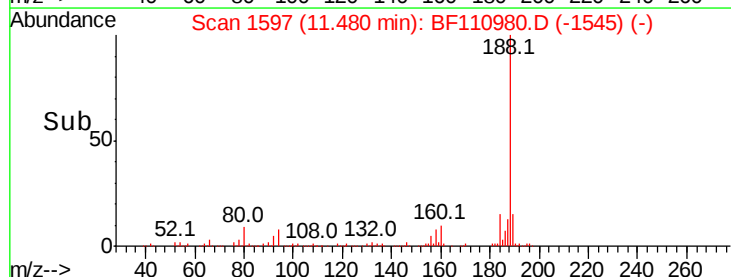
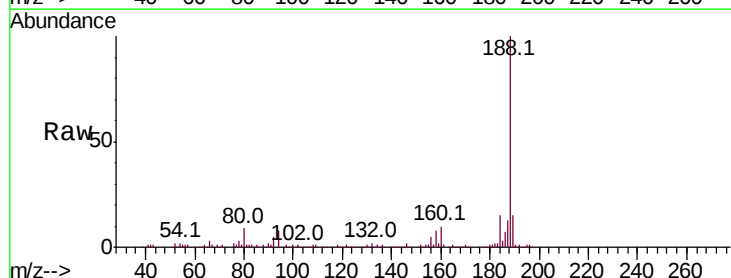
RT: 11.48 min Scan# 1597

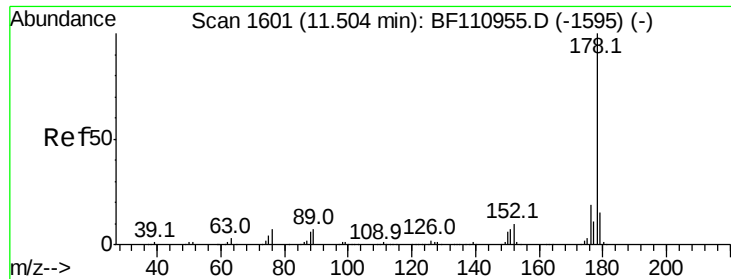
Delta R.T. 0.01 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Tgt Ion:	188	Resp:	143460
Ion Ratio	Lower	Upper	
188	100		
94	8.3	7.2	10.8
80	8.7	7.9	11.9





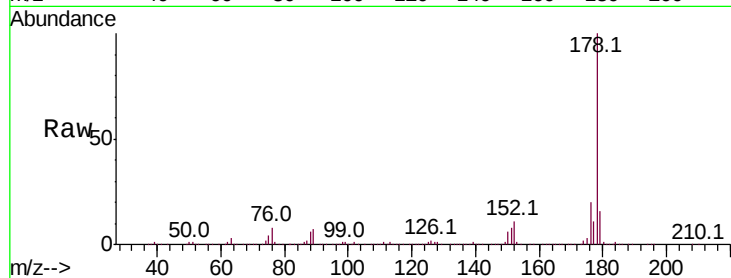
#71
Phenanthrene
Concen: 125.220 ng
RT: 11.51 min Scan# 1602
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

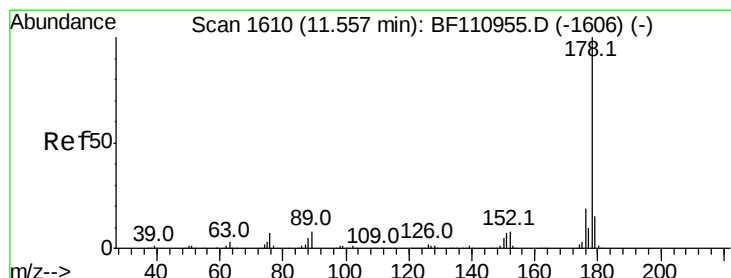
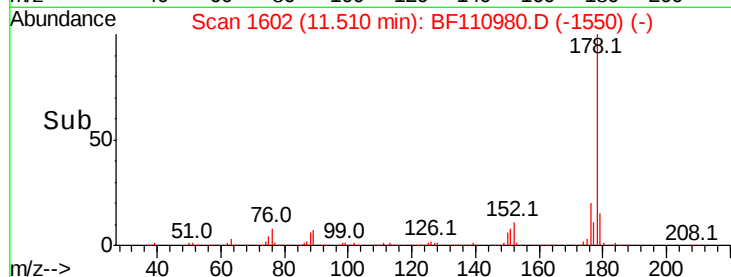
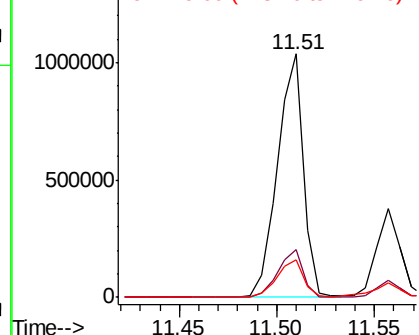
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.5	12.5	18.7

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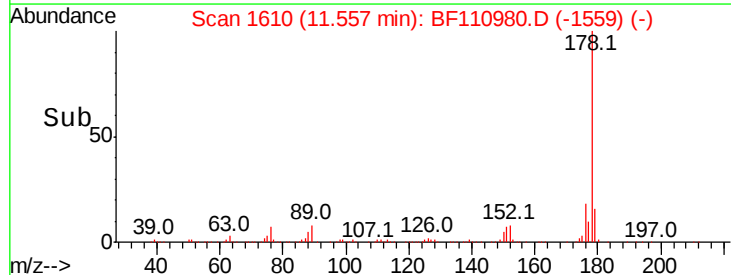
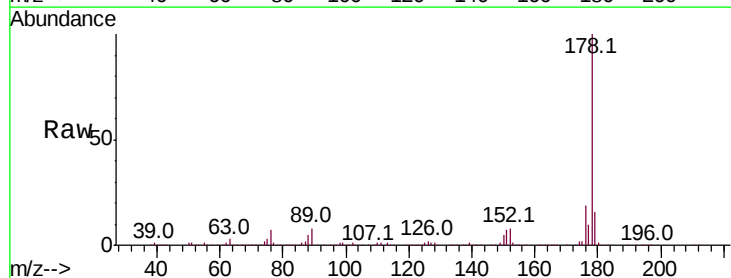
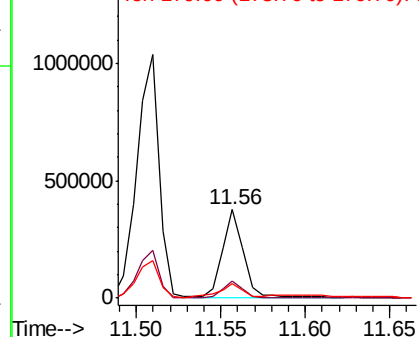
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

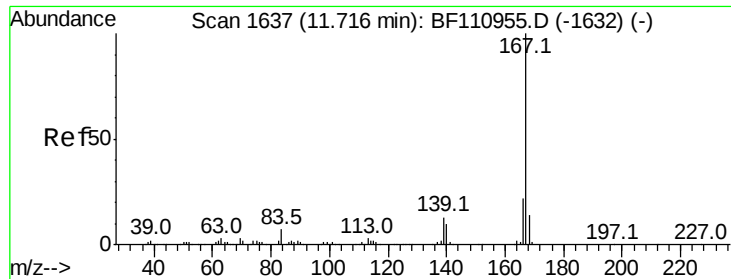


#72
Anthracene
Concen: 42.439 ng
RT: 11.56 min Scan# 1610
Delta R.T. 0.00 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.8	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





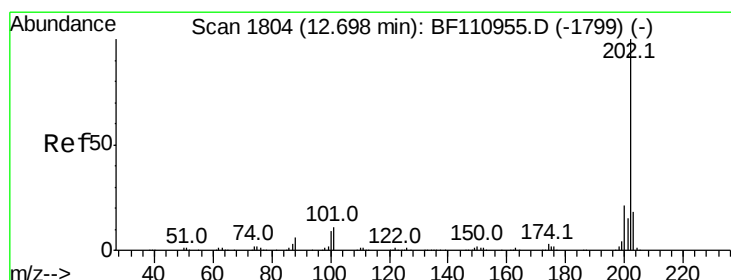
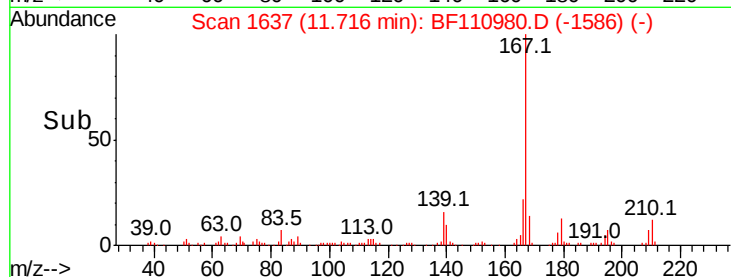
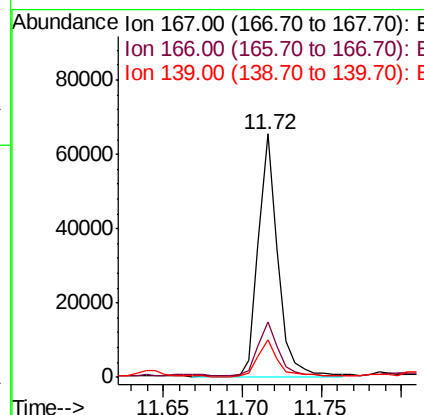
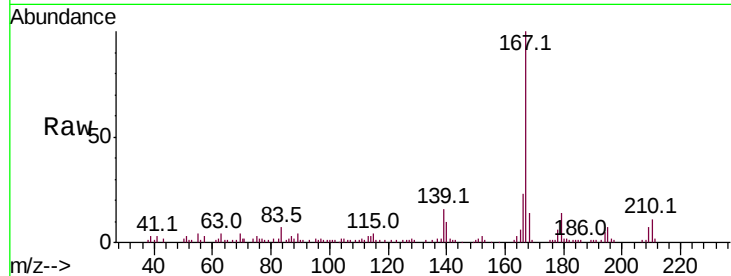
#73
 Carbazole
 Concen: 7.590 ng
 RT: 11.72 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.4	26.0
139	15.5	10.9	16.3

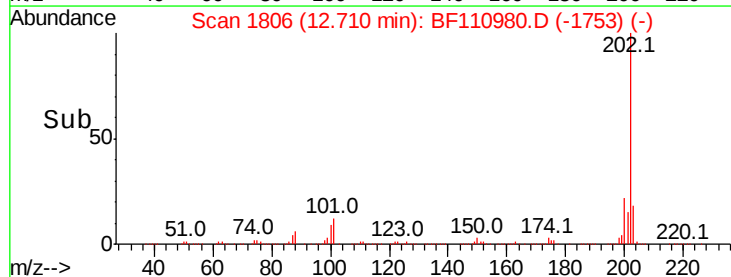
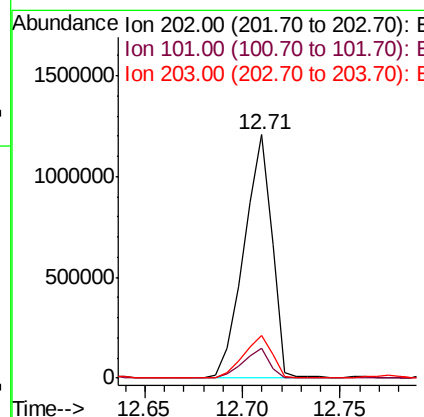
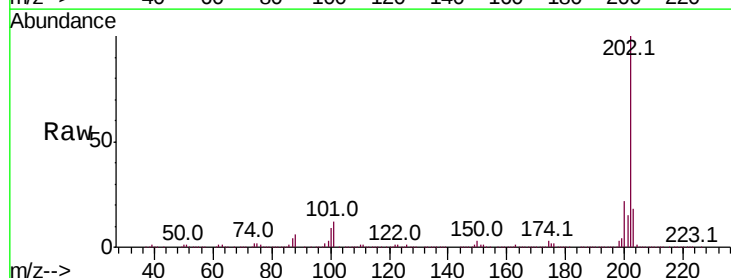
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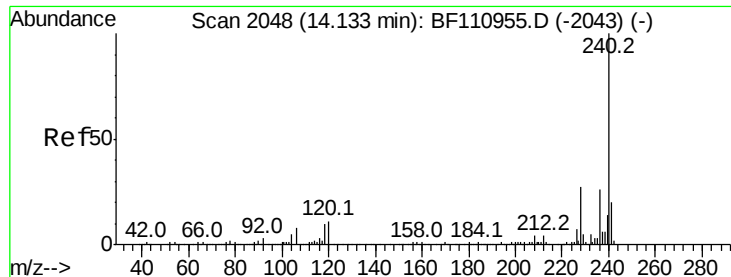
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#75
 Fluoranthene
 Concen: 154.362 ng
 RT: 12.71 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	31.4
203	17.6	0.0	37.7





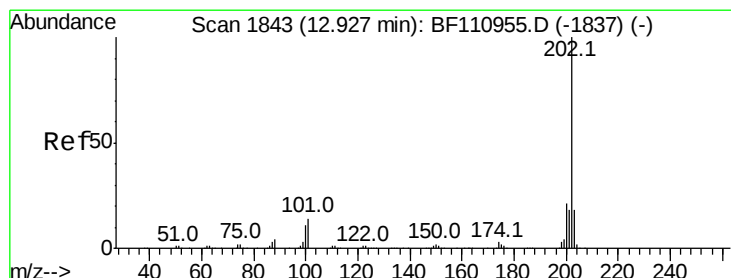
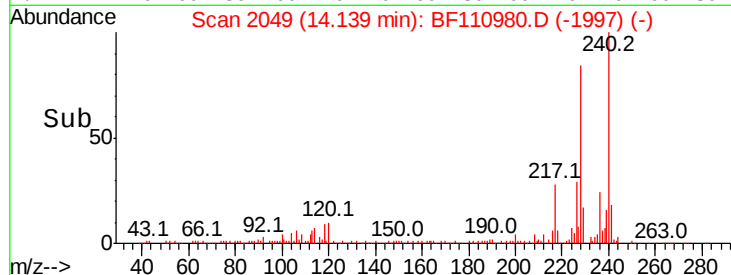
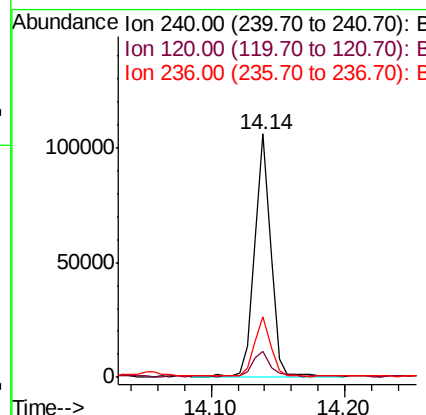
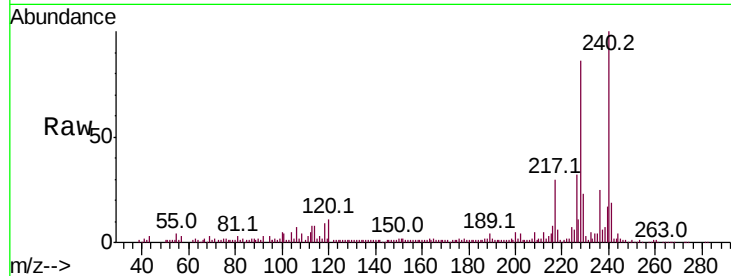
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.14 min Scan# 2049
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.3	12.5
236	25.0	21.2	31.8

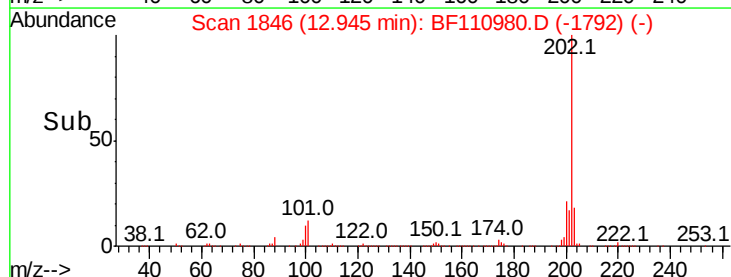
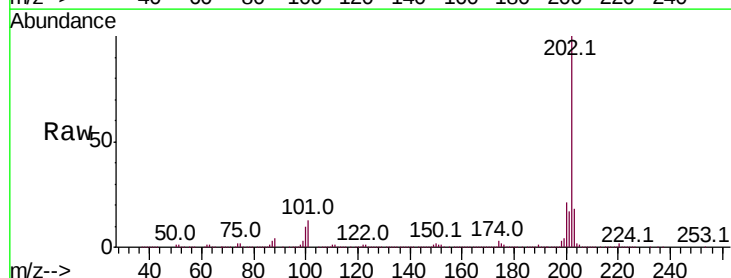
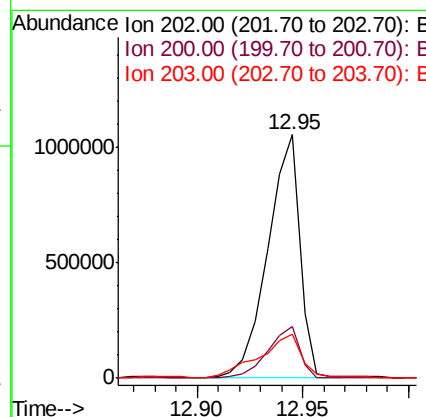
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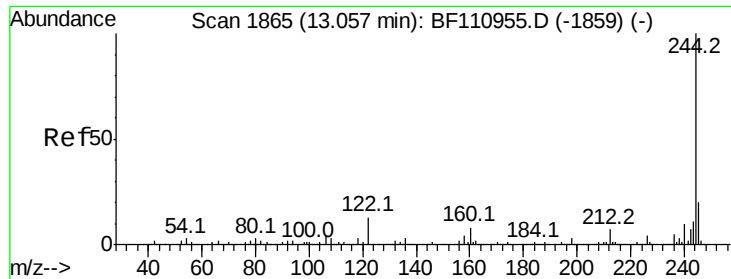
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#78
Pyrene
Concen: 177.715 ng
RT: 12.95 min Scan# 1846
Delta R.T. 0.02 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.8	26.6
203	18.2	14.2	21.4





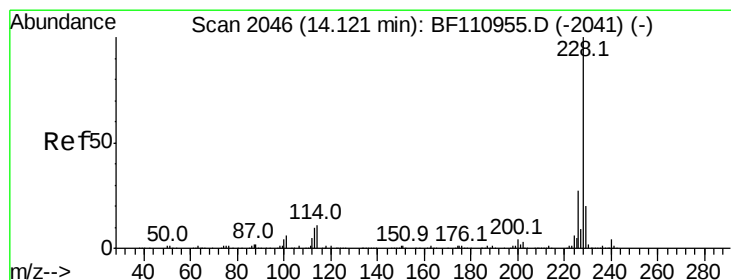
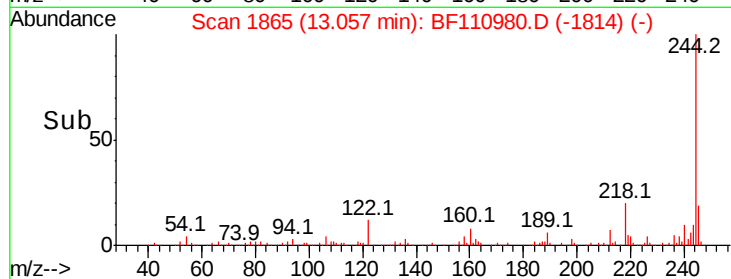
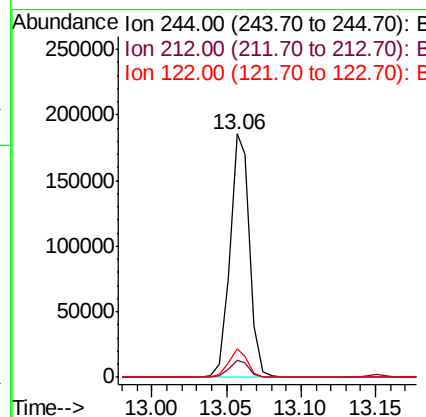
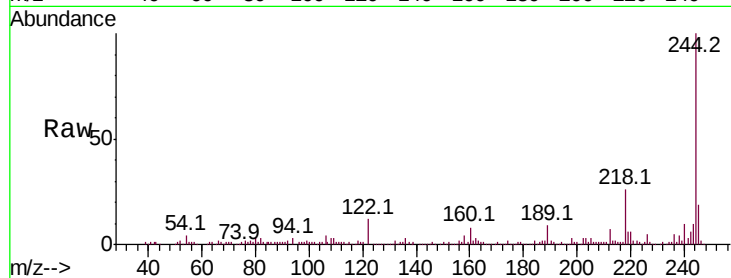
#79
 Terphenyl-d14
 Concen: 39.216 ng
 RT: 13.06 min Scan# 1865
 Delta R.T. 0.00 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	11.8	8.7	13.1

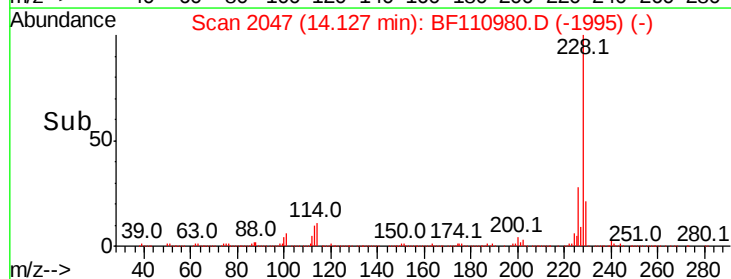
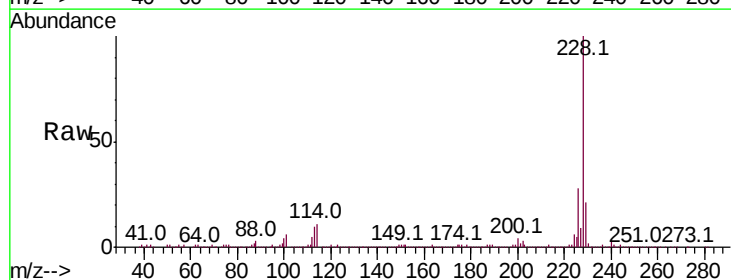
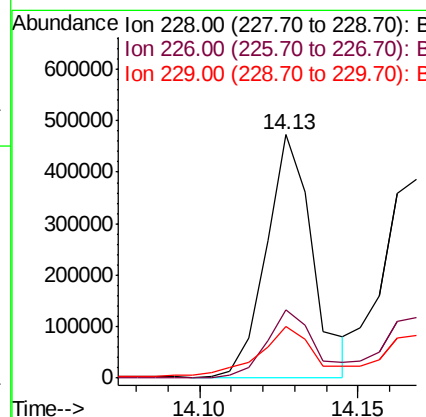
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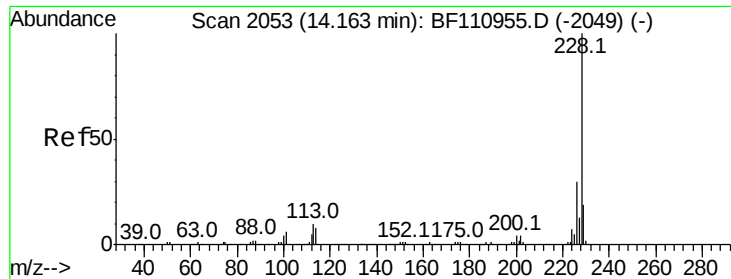
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#81
 Benzo(a)anthracene
 Concen: 93.988 ng
 RT: 14.13 min Scan# 2047
 Delta R.T. 0.01 min
 Lab File: BF110980.D
 Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.1	33.1
229	21.3	15.6	23.4





#83

Chrysene

Concen: 77.617 ng

RT: 14.17 min Scan# 2054

Delta R.T. 0.01 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Instrument :

BNA_F

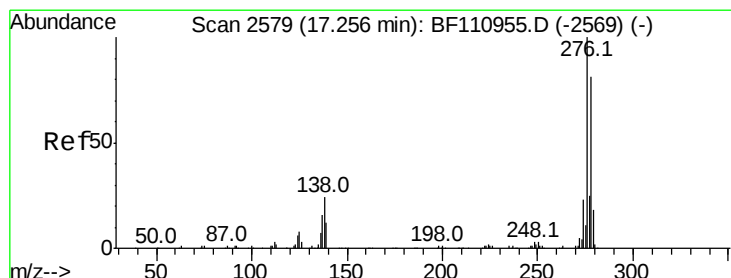
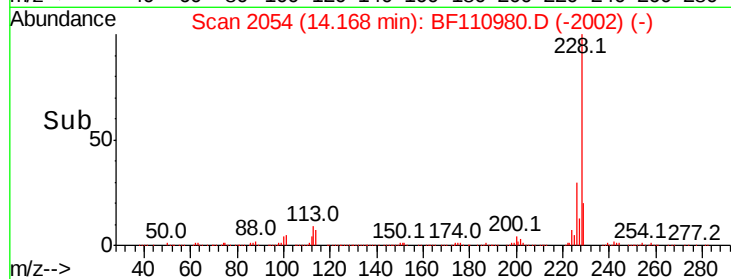
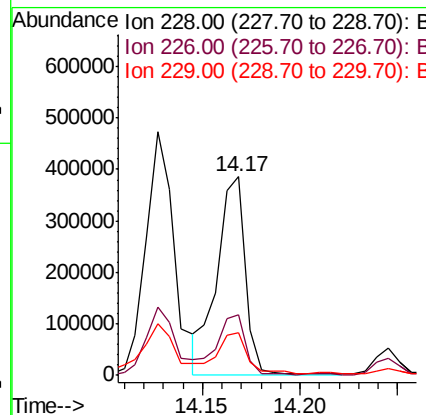
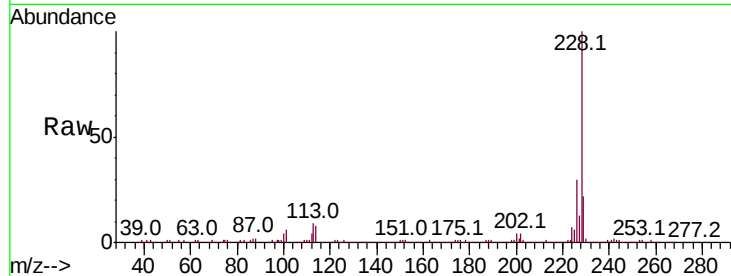
ClientSampleId :

SU-03-112118-B

Tot Ion:	228	Resp:	387105
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.7	37.1
229	21.7	15.9	23.9

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#86

Indeno(1,2,3-cd)pyrene

Concen: 42.626 ng

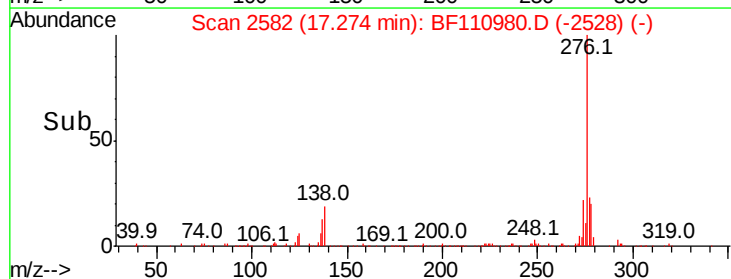
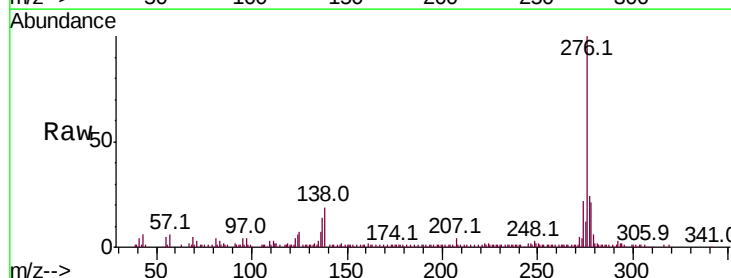
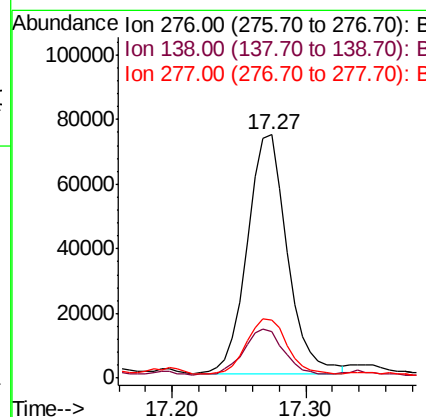
RT: 17.27 min Scan# 2582

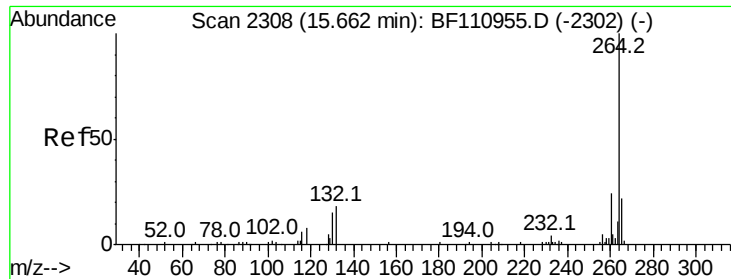
Delta R.T. 0.02 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Tgt Ion:	276	Resp:	152599
Ion Ratio	Lower	Upper	
276	100		
138	19.9	18.5	27.7
277	24.3	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2310

Delta R.T. 0.01 min

Lab File: BF110980.D

Acq: 26 Nov 2018 22:51

Instrument :

BNA_F

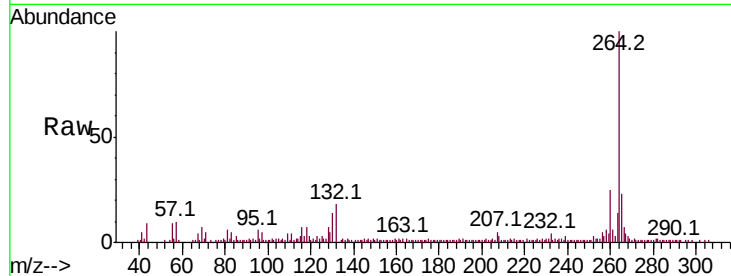
ClientSampleId :

SU-03-112118-B

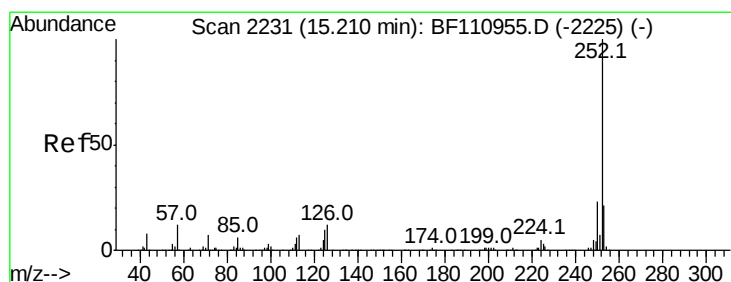
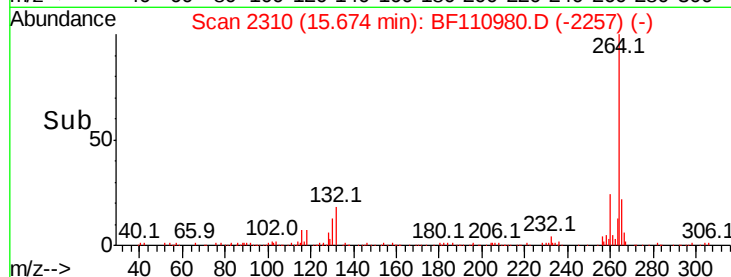
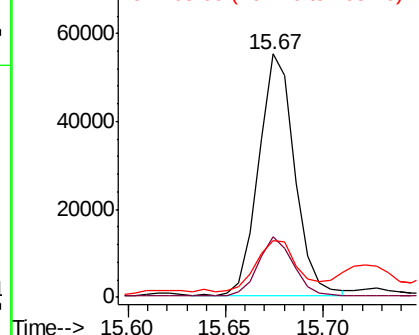
Tot Ion:	264	Resp:	69861
Ion Ratio	Lower	Upper	
264	100		
260	24.7	18.7	28.1
265	23.2	16.7	25.1

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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: 99.577 ng m

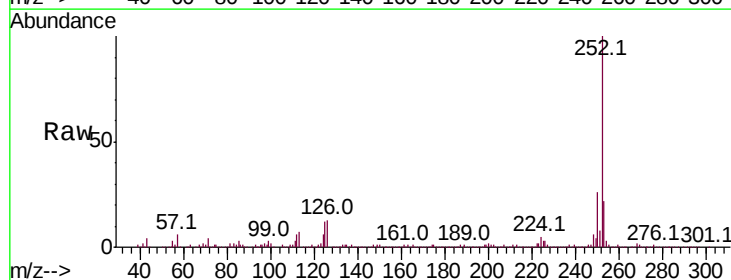
RT: 15.22 min Scan# 2233

Delta R.T. 0.01 min

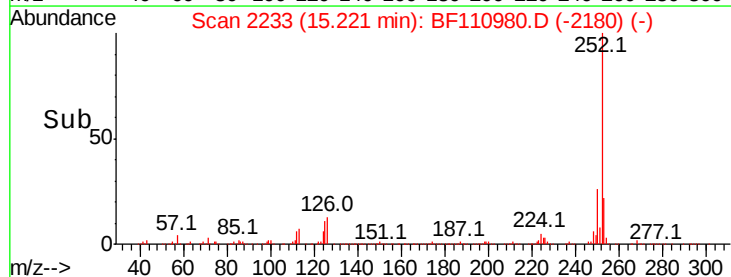
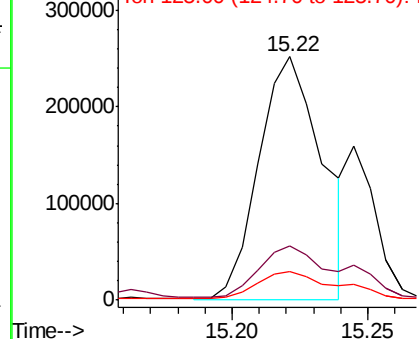
Lab File: BF110980.D

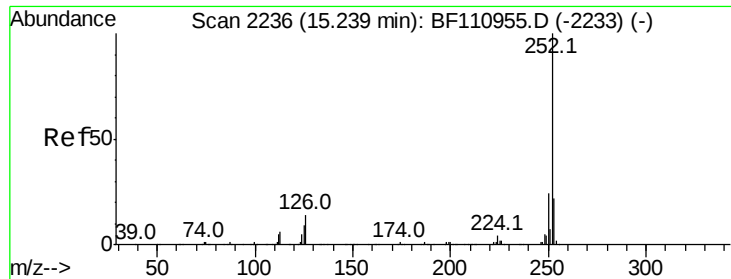
Acq: 26 Nov 2018 22:51

Tgt Ion:	252	Resp:	408668
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.2	25.8
125	11.5	8.2	12.4



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





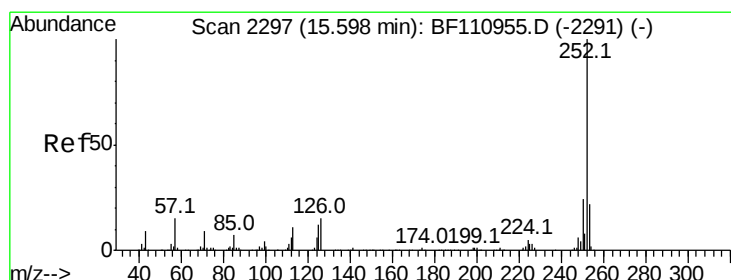
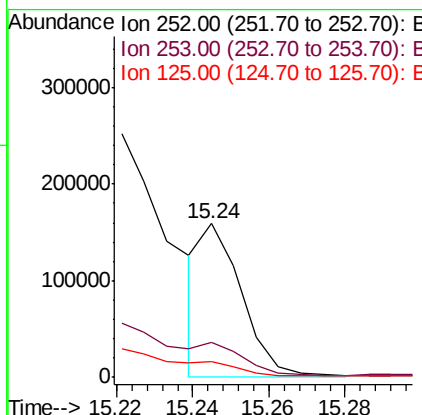
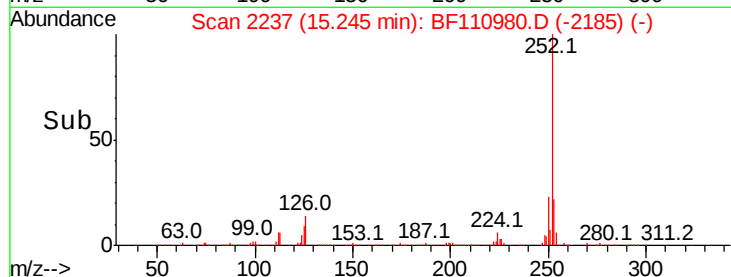
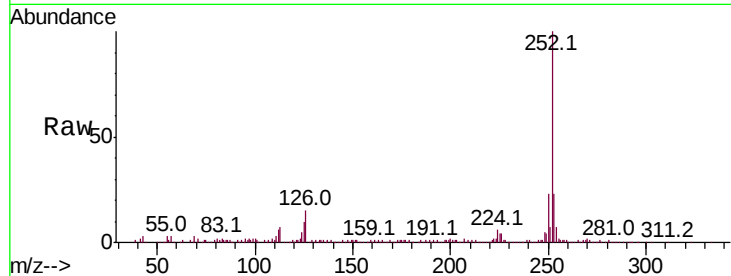
#89
Benzo(k)fluoranthene
Concen: 28.137 ng m
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.2	25.8
125	10.2	7.4	11.0

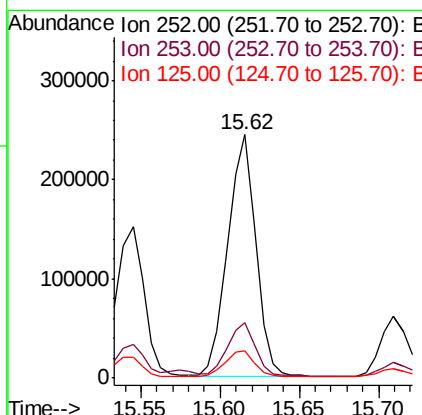
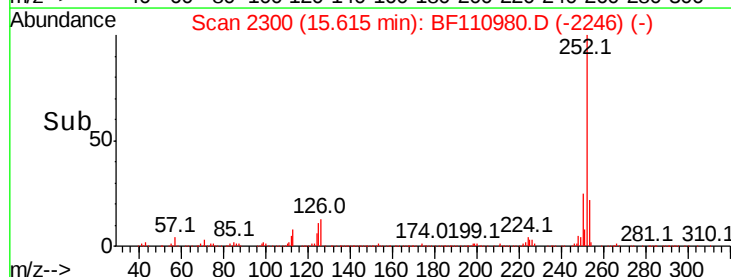
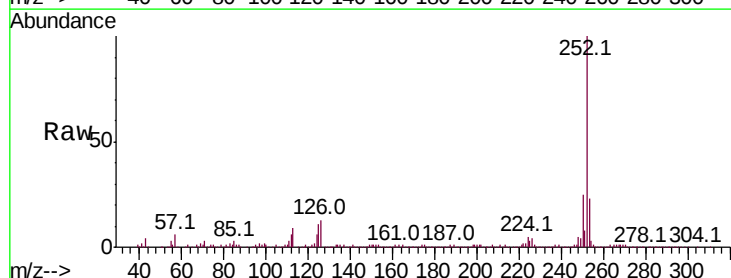
Manual Integrations
APPROVED

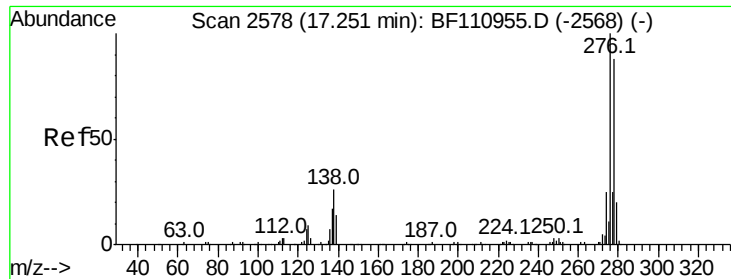
mohammad
11/27/2018 11:48:09 AM



#90
Benzo(a)pyrene
Concen: 79.223 ng
RT: 15.62 min Scan# 2300
Delta R.T. 0.02 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.4
125	11.2	9.0	13.6





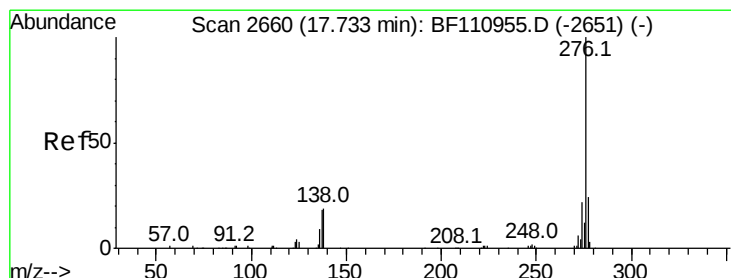
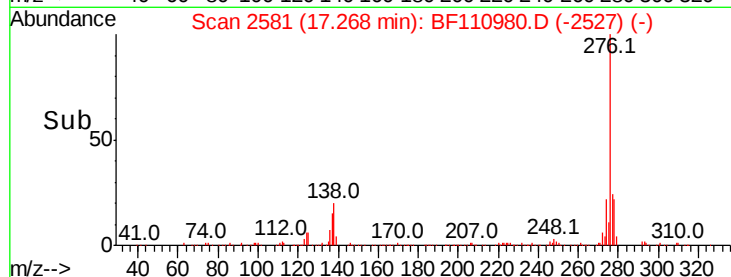
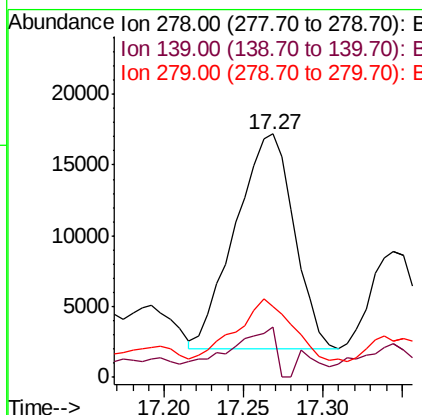
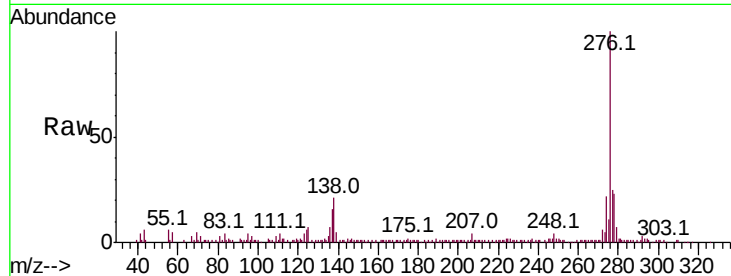
#91
Dibenzo(a,h)anthracene
Concen: 12.355 ng
RT: 17.27 min Scan# 2581
Delta R.T. 0.02 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Instrument :
BNA_F
ClientSampleId :
SU-03-112118-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.6	12.7	19.1#
279	29.0	19.0	28.4#

Manual Integrations
APPROVED

mohammad
11/27/2018 11:48:09 AM



#92
Benzo(g,h,i)perylene
Concen: 45.910 ng
RT: 17.76 min Scan# 2665
Delta R.T. 0.03 min
Lab File: BF110980.D
Acq: 26 Nov 2018 22:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.8	28.2
138	20.9	16.0	24.0

