

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
 Data File : BF118655.D
 Acq On : 22 Jan 2020 1:56
 Operator : CG/JU
 Sample : L1148-03DL 100X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Manual Integrations
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Quant Time: Jan 22 06:13:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	346272	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1279871	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	686864	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	1097618	20.00	ng	0.00
76) Chrysene-d12	14.04	240	791550	20.00	ng	0.00
87) Perylene-d12	15.51	264	973782	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	18873	1.01	ng	-0.01
7) Phenol-d6	6.49	99	27099	1.12	ng	-0.02
23) Nitrobenzene-d5	7.43	82	14242	0.62	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	5863	0.74	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	32716	0.78	ng	-0.01
79) Terphenyl-d14	12.98	244	34823	0.96	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.19	128	4784002	82.745	ng	96
37) 2-Methylnaphthalene	8.87	142	967450	23.706	ng	98
38) 1-Methylnaphthalene	8.97	142	586716	15.133	ng	99
46) 1,1'-Biphenyl	9.33	154	258907	5.469	ng	96
49) Acenaphthylene	9.77	152	441268	7.861	ng	96
52) Acenaphthene	9.95	154	478944	12.760	ng	99
55) Dibenzofuran	10.12	168	844662	16.239	ng	91
58) Fluorene	10.46	166	1122735	27.495	ng	99
71) Phenanthrene	11.43	178	3665816	69.227	ng	99
72) Anthracene	11.47	178	1181488	22.549	ng	94
73) Carbazole	11.62	167	354898	7.384	ng	95
75) Fluoranthene	12.62	202	2487256	44.534	ng	98
78) Pyrene	12.85	202	2169648	40.374	ng	95
81) Benzo(a)anthracene	14.03	228	1138043m	23.900	ng	
83) Chrysene	14.06	228	822774	18.029	ng	96
86) Indeno(1,2,3-cd)pyrene	16.98	276	445168	11.227	ng	97
88) Benzo(b)fluoranthene	15.08	252	1153940m	18.852	ng	
89) Benzo(k)fluoranthene	15.10	252	324719m	5.726	ng	
90) Benzo(a)pyrene	15.44	252	924216	17.504	ng	99
91) Dibenzo(a,h)anthracene	16.99	278	126179m	2.702	ng	
92) Benzo(g,h,i)perylene	17.42	276	392106	8.646	ng	98

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

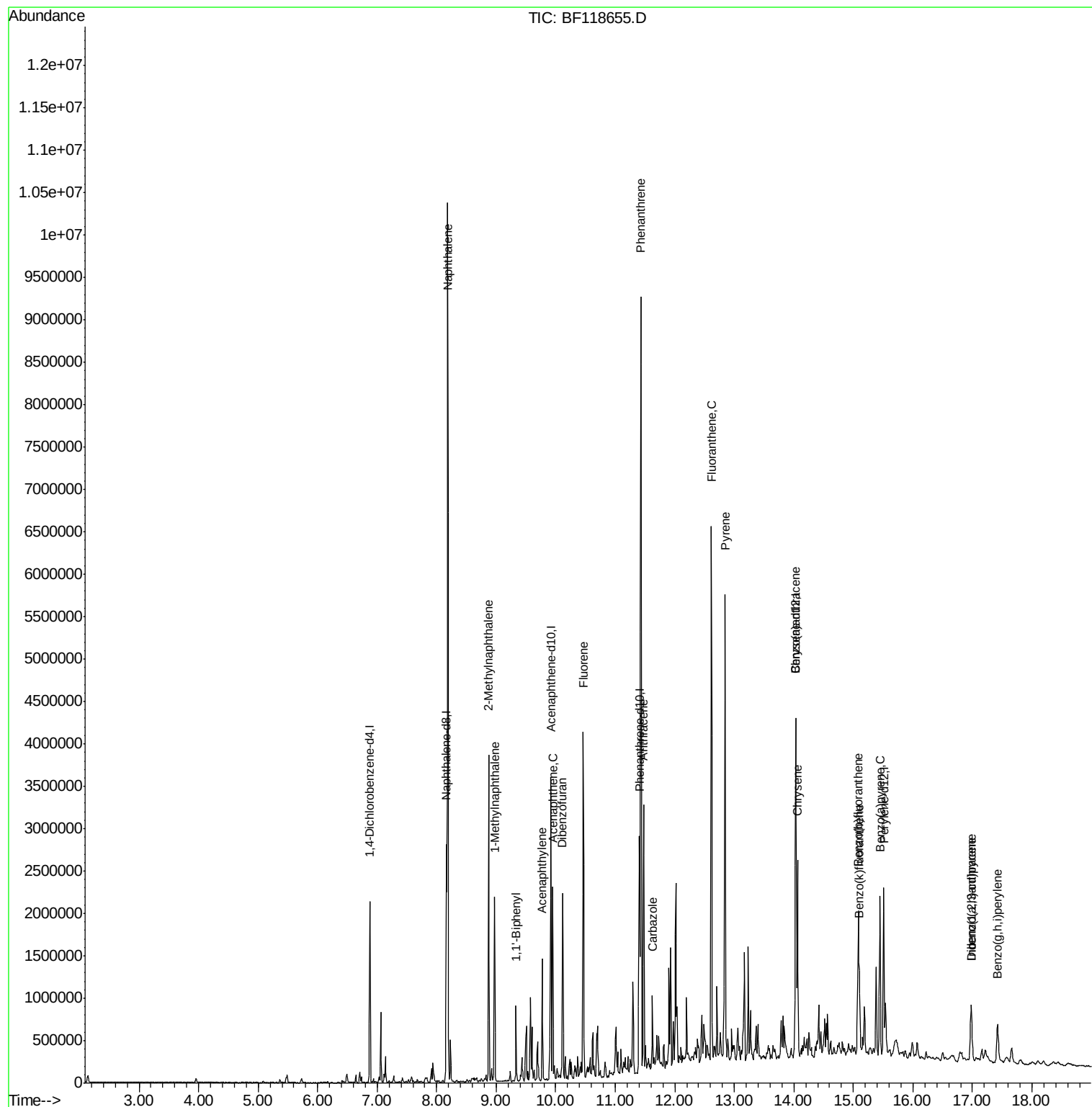
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012120\
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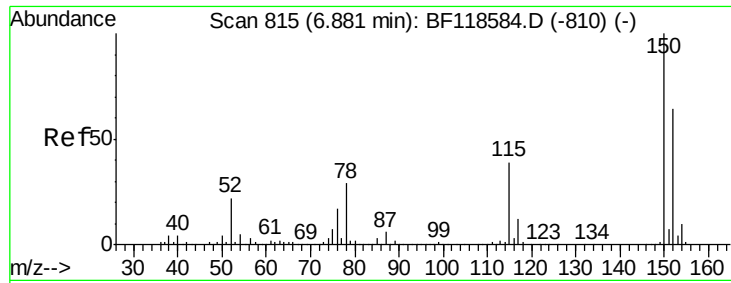
Instrument :
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SB-12-(4-6)DL

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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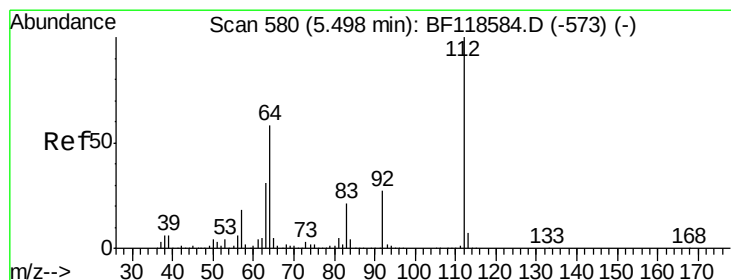
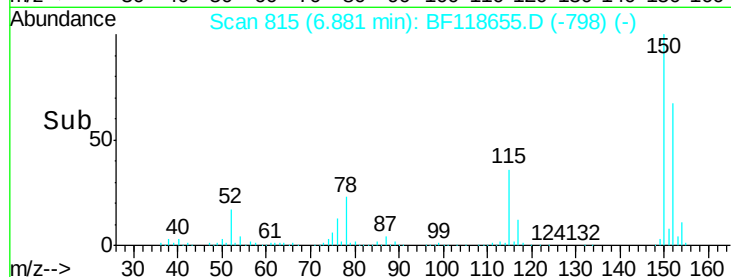
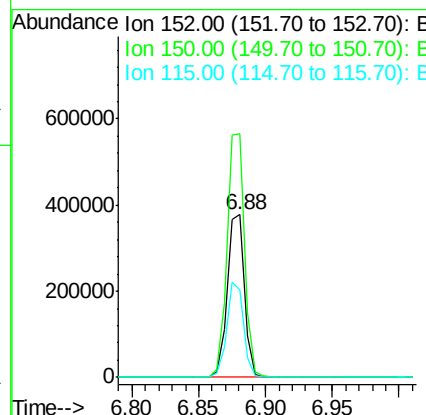
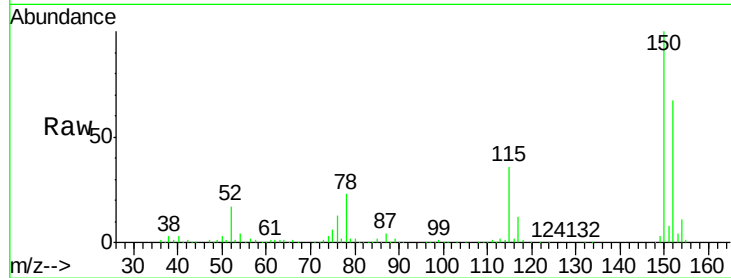
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.88 min Scan# 815
 Delta R.T. 0.00 min
 Lab File: BF118655.D
 Acq: 22 Jan 2020 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.8	125.6	188.4
115	53.5	48.4	72.6

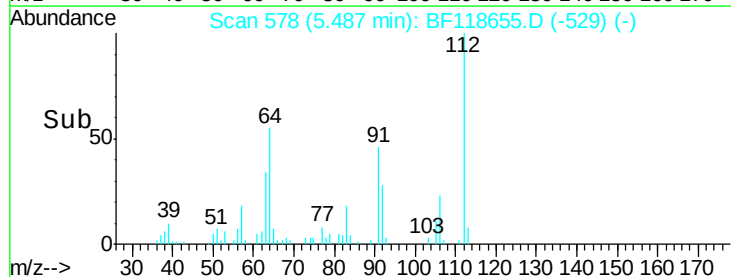
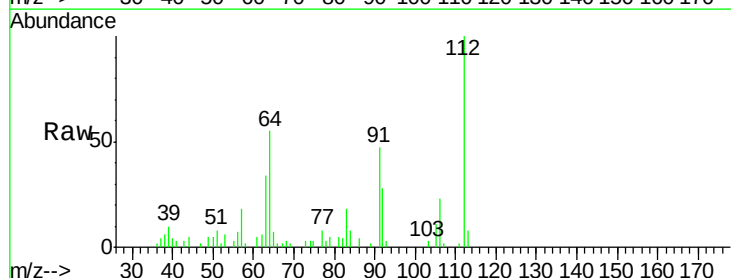
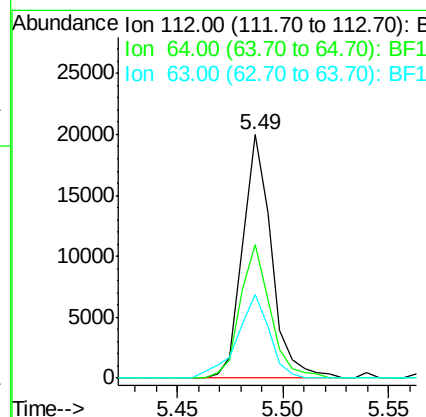
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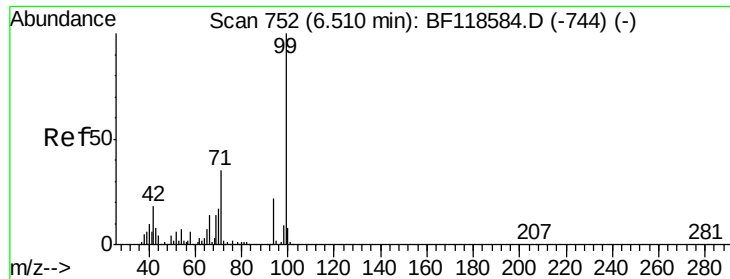
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#5
 2-Fluorophenol
 Concen: 1.012 ng
 RT: 5.49 min Scan# 578
 Delta R.T. -0.01 min
 Lab File: BF118655.D
 Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.8	46.6	70.0
63	34.1	25.1	37.7





#7

Phenol-d6

Concen: 1.118 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF118655.D

Acq: 22 Jan 2020 1:56

Instrument :

BNA_F

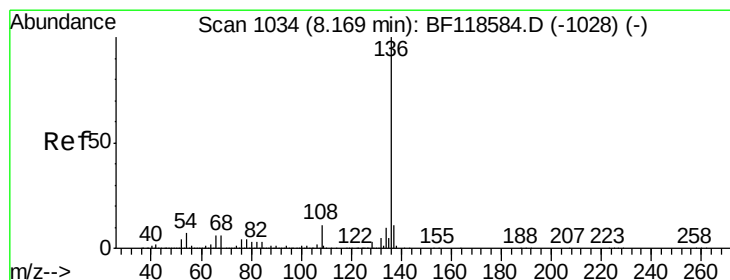
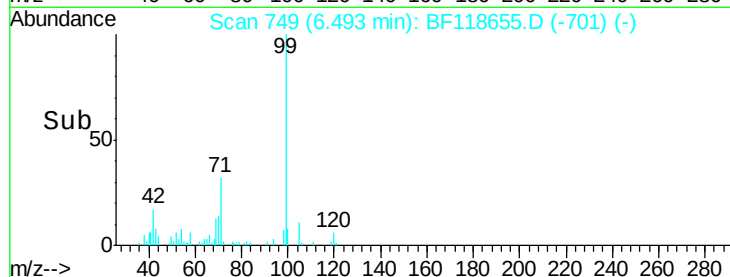
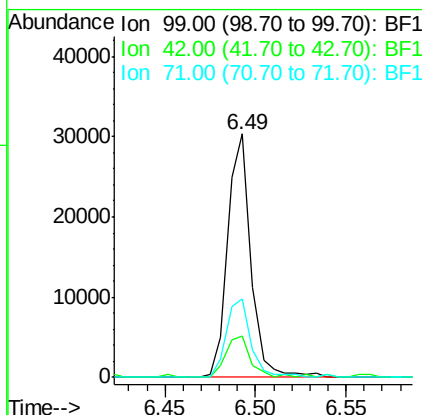
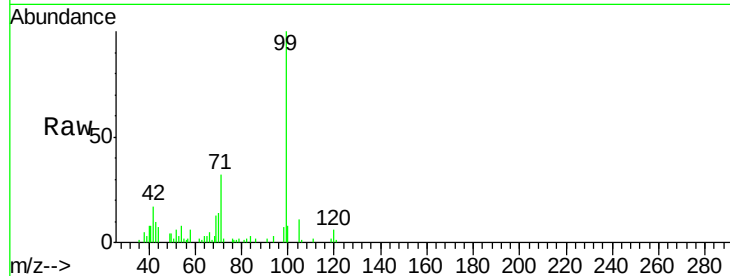
ClientSampleId :

SB-12-(4-6)DL

Tot Ion:	99	Resp:	27099
Ion Ratio	Lower	Upper	
99	100		
42	16.8	14.2	21.2
71	32.1	27.8	41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

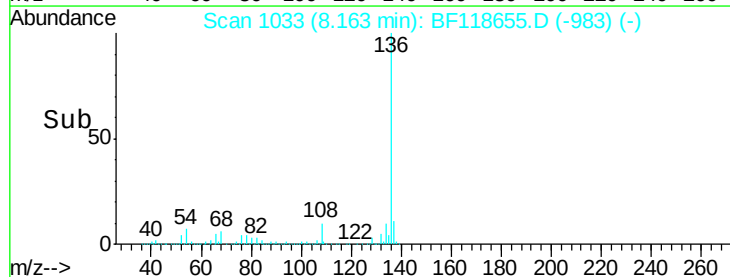
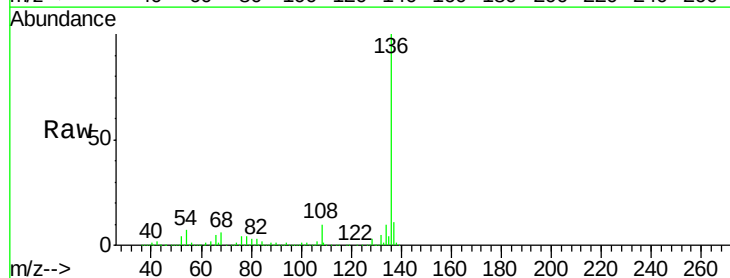
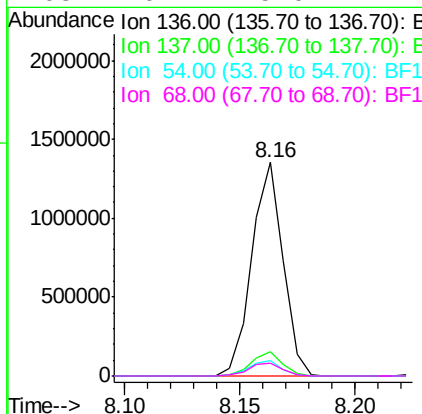
RT: 8.16 min Scan# 1033

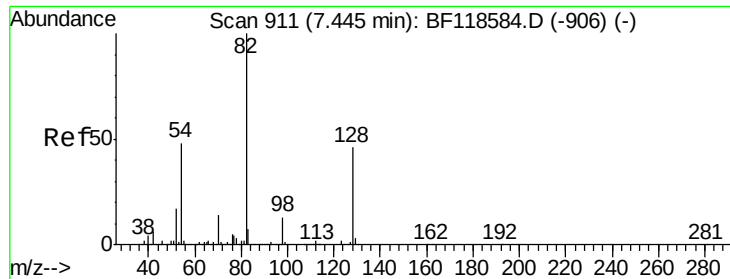
Delta R.T. -0.01 min

Lab File: BF118655.D

Acq: 22 Jan 2020 1:56

Tgt Ion:	136	Resp:	1279871
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.1	13.7
54	7.1	5.8	8.6
68	6.2	5.0	7.4





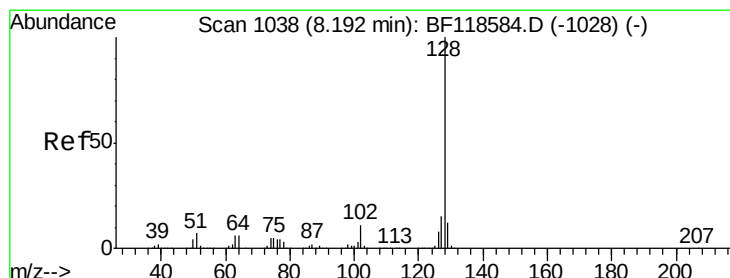
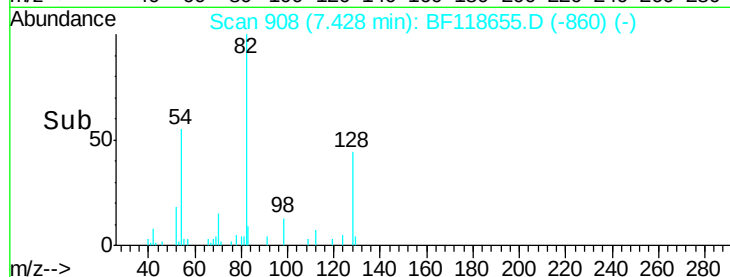
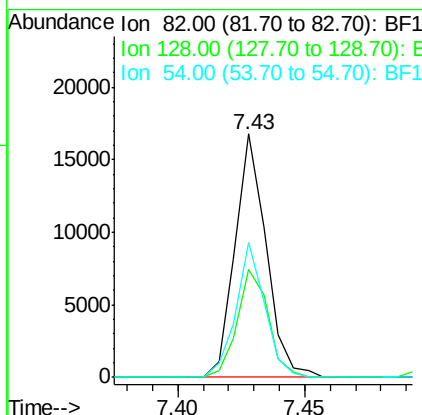
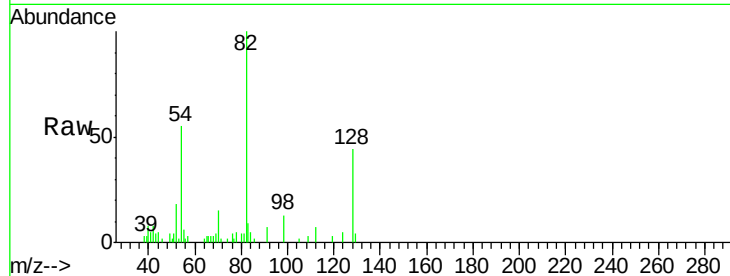
#23
Nitrobenzene-d5
Concen: 0.622 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.02 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	82	Resp	14242
Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.6	54.8
54	55.4	38.0	57.0

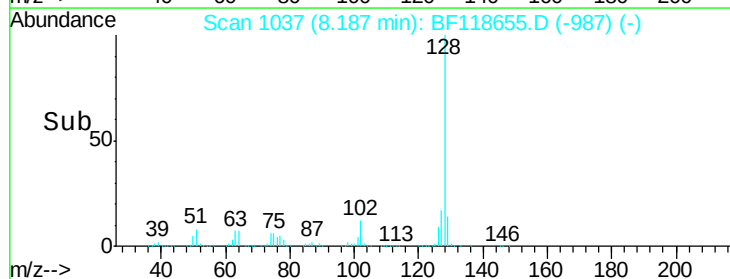
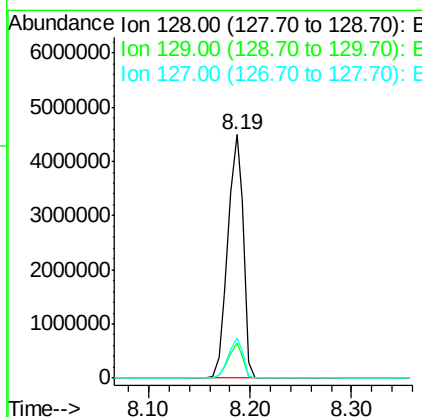
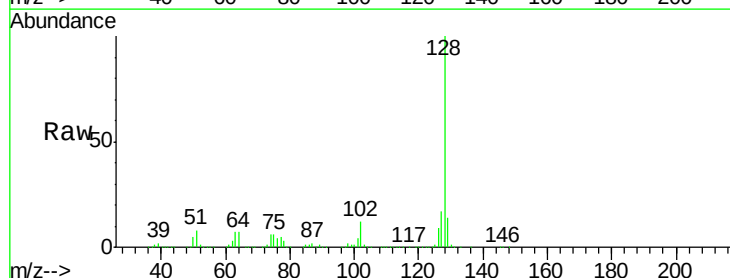
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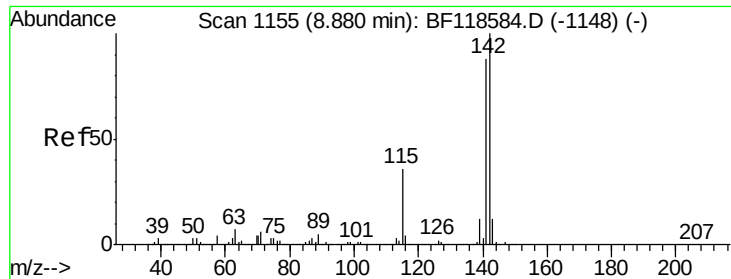
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#31
Naphthalene
Concen: 82.745 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	128	Resp	4784002
Ion	Ratio	Lower	Upper
128	100		
129	14.2	9.9	14.9
127	16.6	12.0	18.0





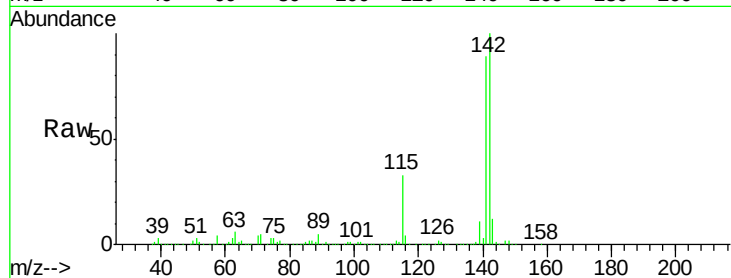
#37
2-Methylnaphthalene
Concen: 23.706 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.7	106.1
115	32.5	28.5	42.7

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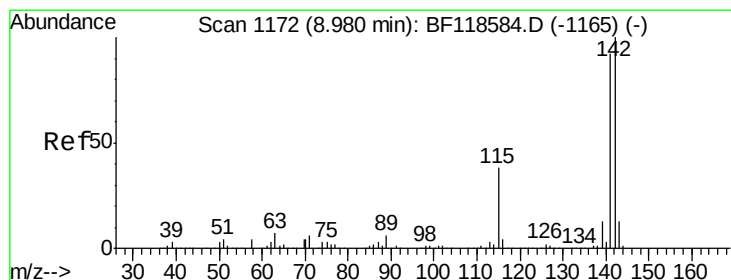
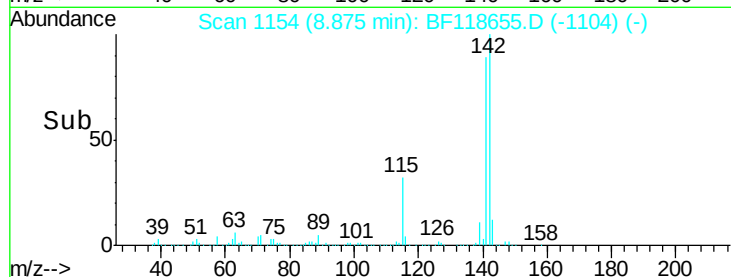
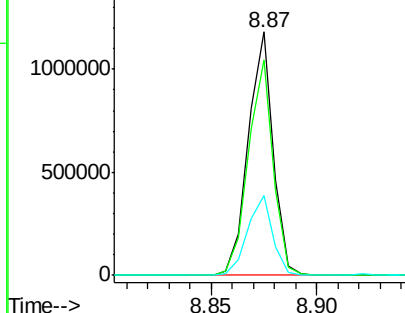


Abundance

Ion 142.00 (141.70 to 142.70): E

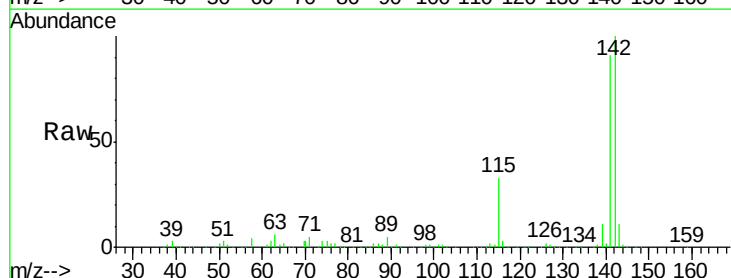
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 15.133 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.4	110.2
116	3.4	3.3	4.9

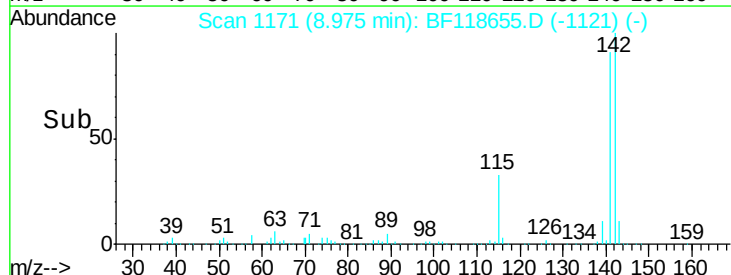
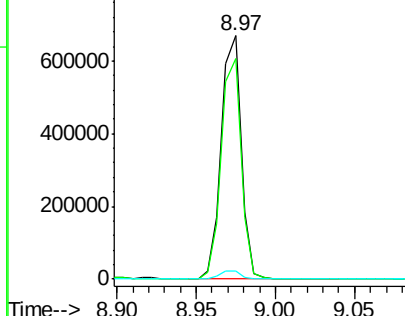


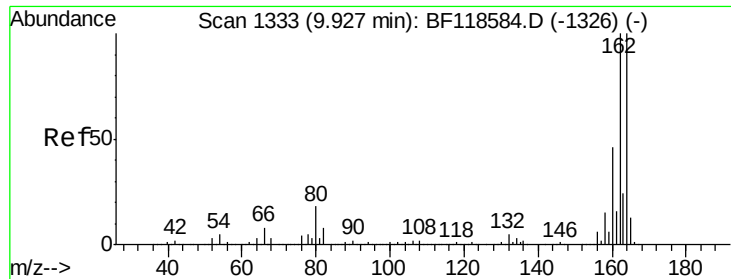
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





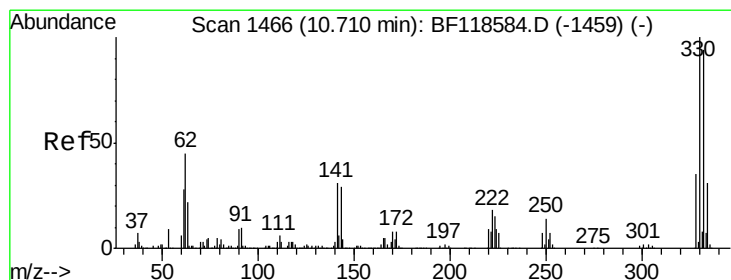
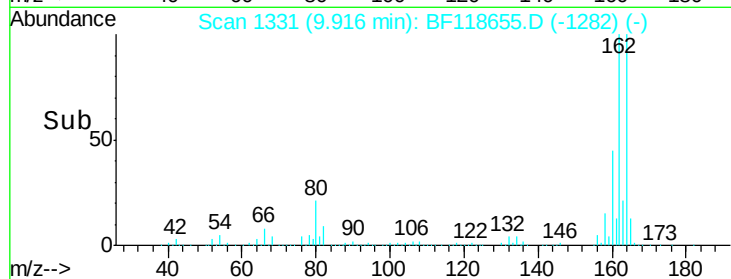
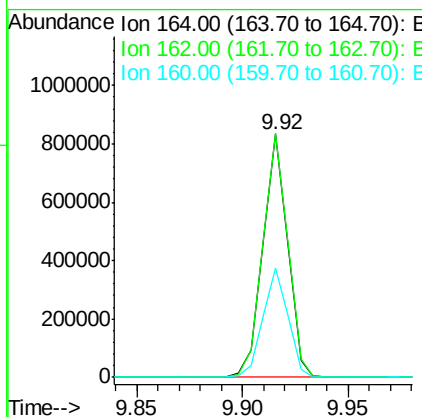
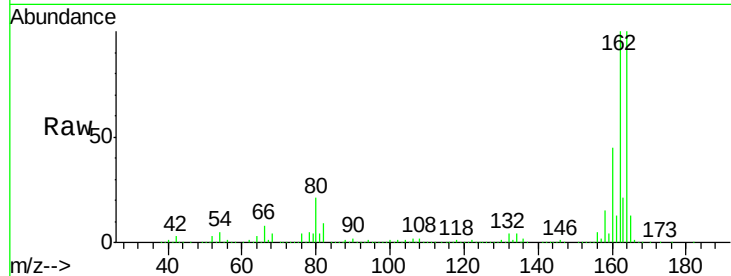
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
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ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	686864		
162	99.9	80.4	120.6	
160	45.0	36.6	55.0	

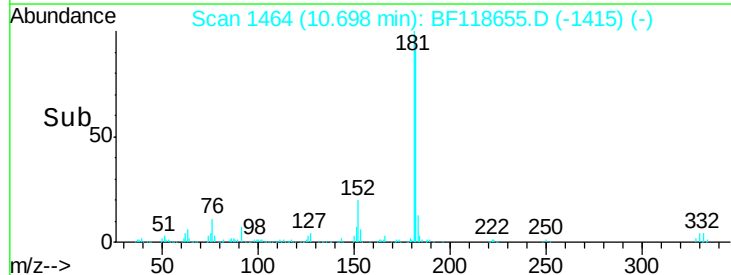
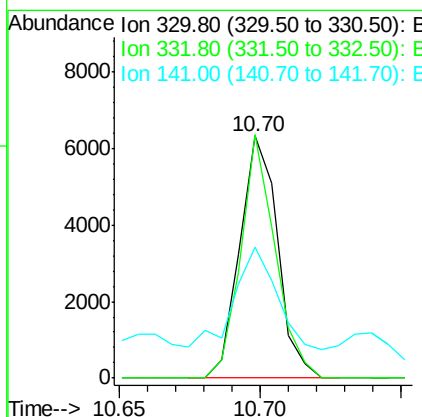
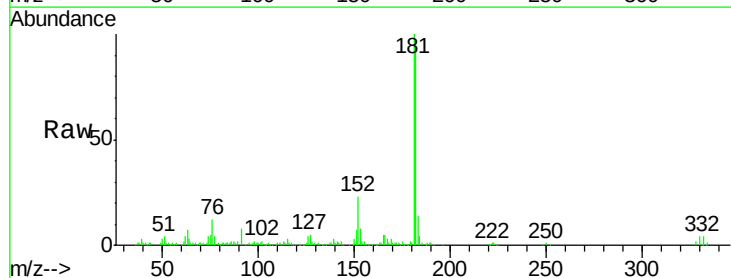
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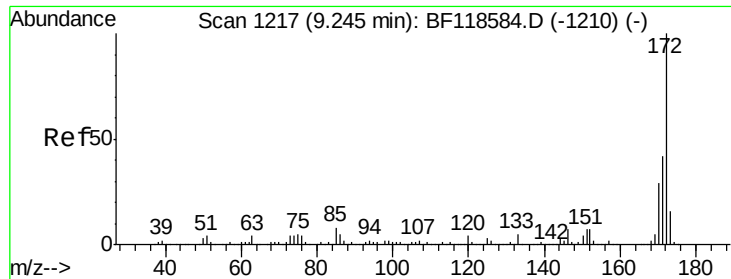
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#42
2,4,6-Tribromophenol
Concen: 0.738 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5863		
332	92.2	76.2	114.4	
141	47.8	23.9	35.9#	





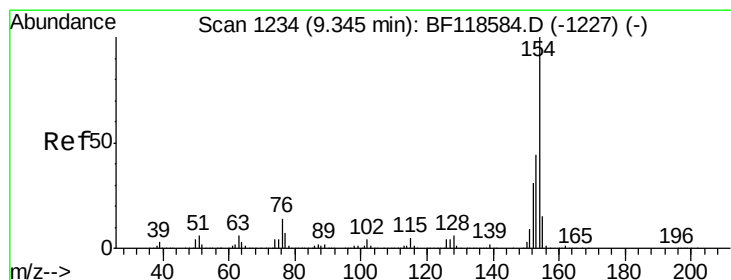
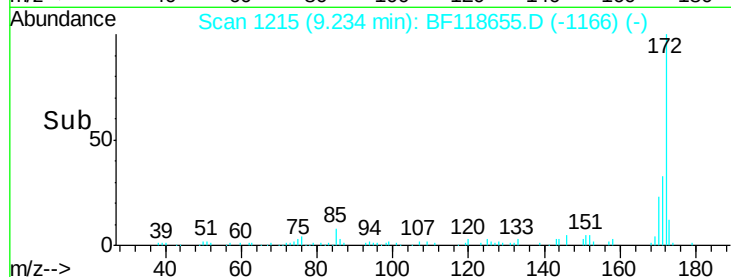
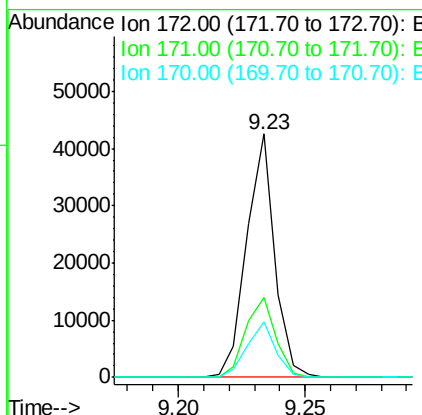
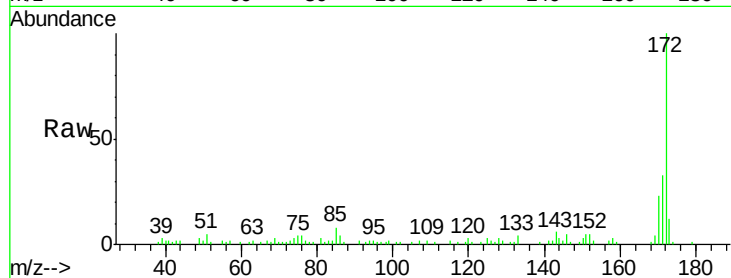
#45
2-Fluorobiphenyl
Concen: 0.783 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
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SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.0	33.4	50.2#
170	22.8	23.2	34.8#

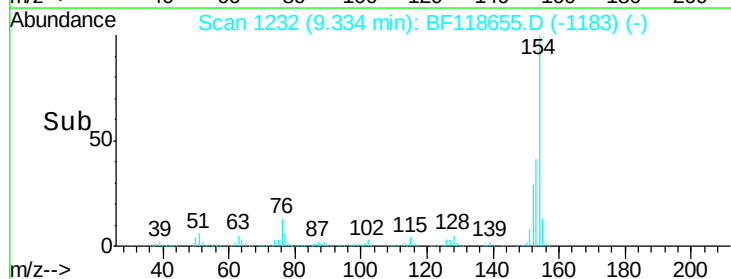
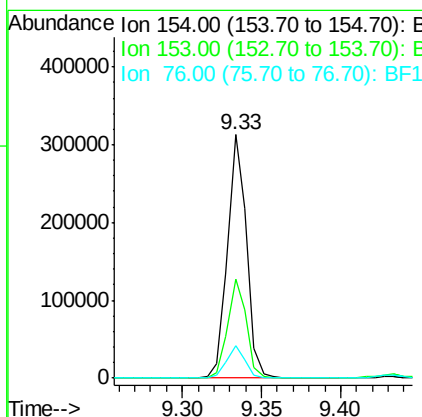
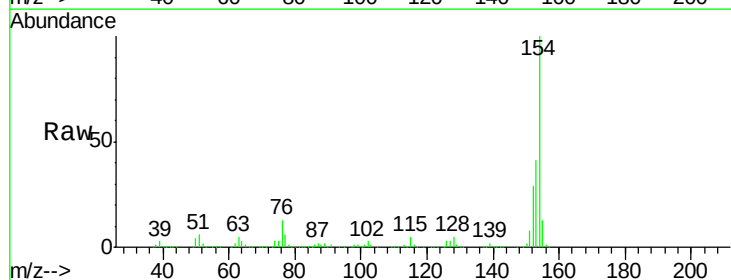
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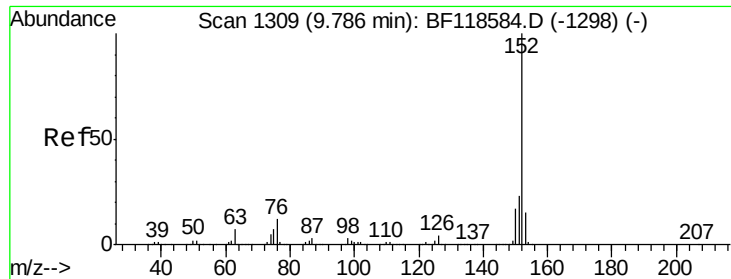
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#46
1,1'-Biphenyl
Concen: 5.469 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.8	23.8	63.8
76	13.3	0.0	34.3





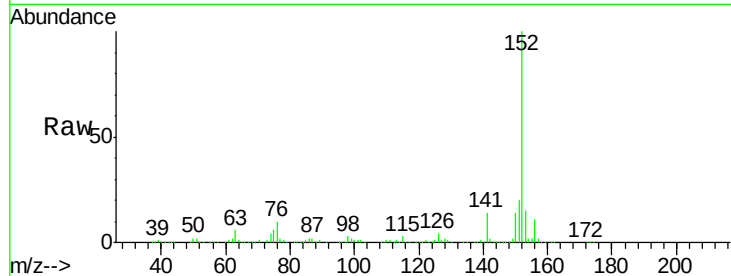
#49
Acenaphthylene
Concen: 7.861 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

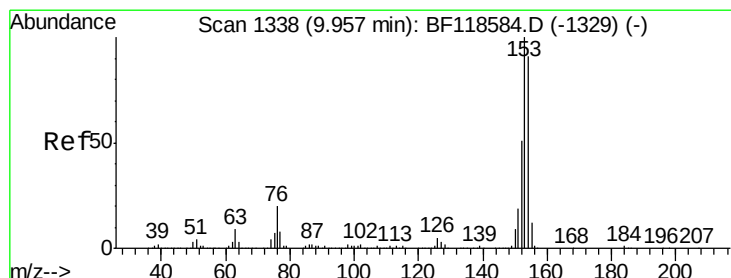
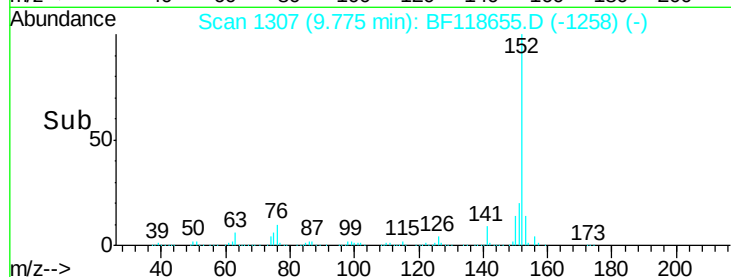
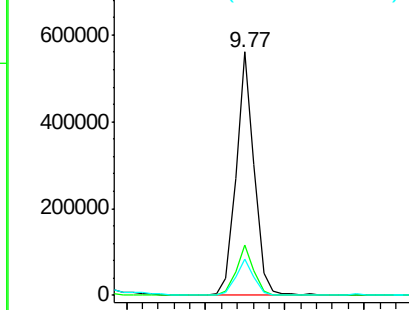
Tot Ion	Ratio	Lower	Upper
152	100		
151	20.5	18.6	27.8
153	14.9	12.2	18.4

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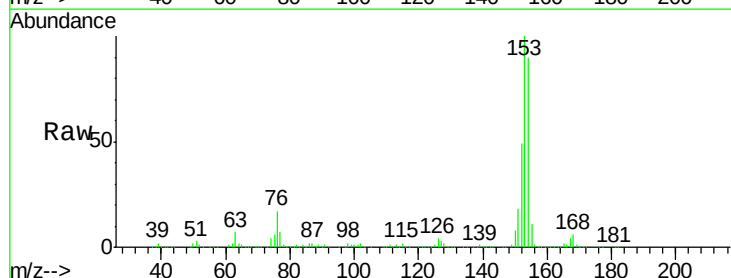


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

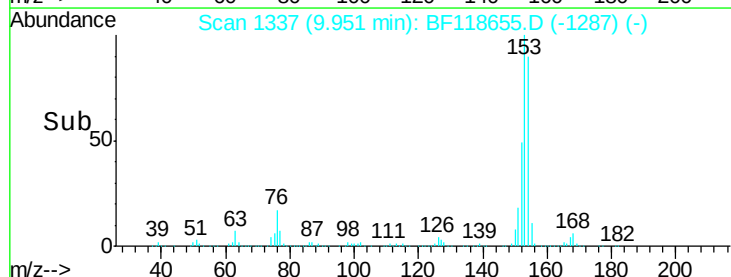
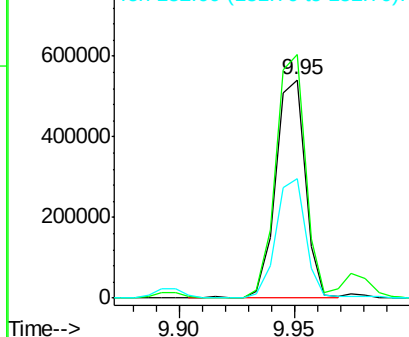


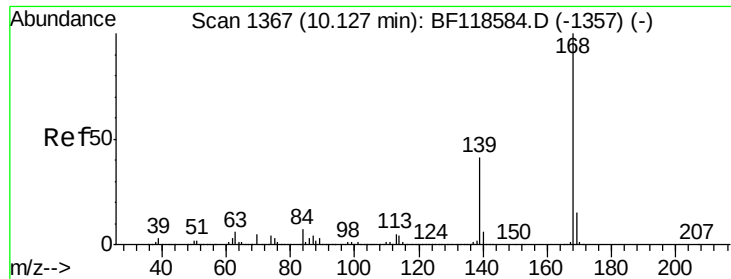
#52
Acenaphthene
Concen: 12.760 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.4	87.6	131.4
152	54.9	44.4	66.6



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





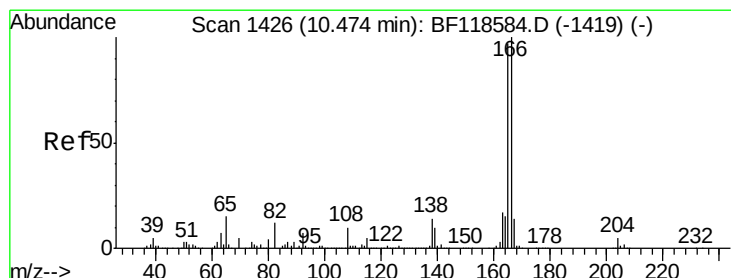
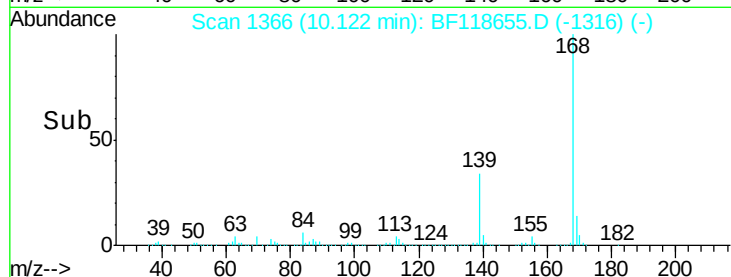
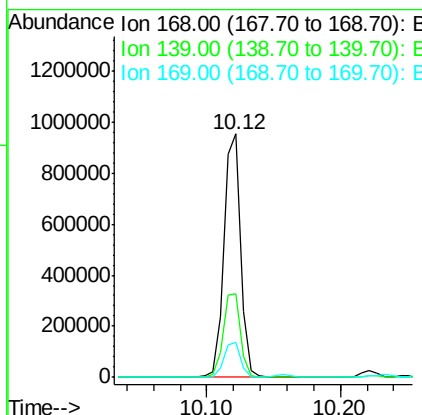
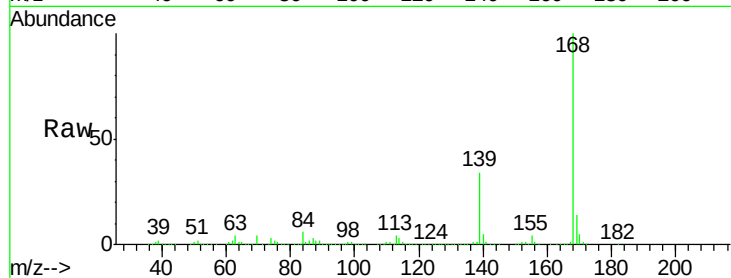
#55
Dibenzenofuran
Concen: 16.239 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.1	32.7	49.1
169	14.1	12.2	18.2

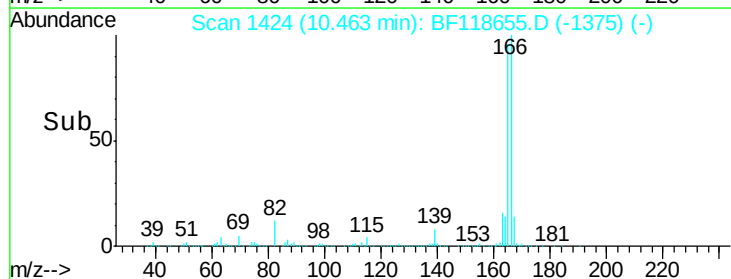
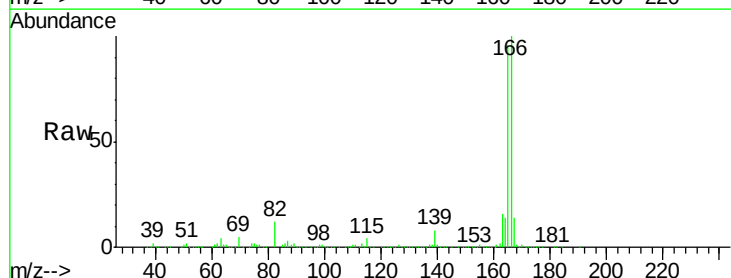
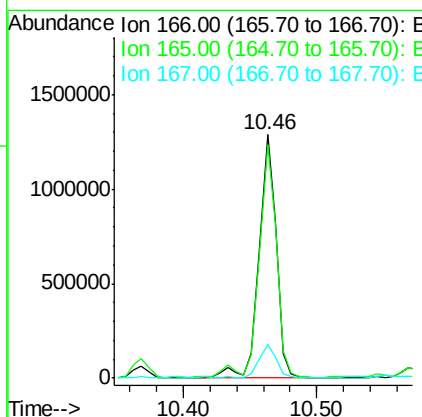
Manual Integrations
APPROVED

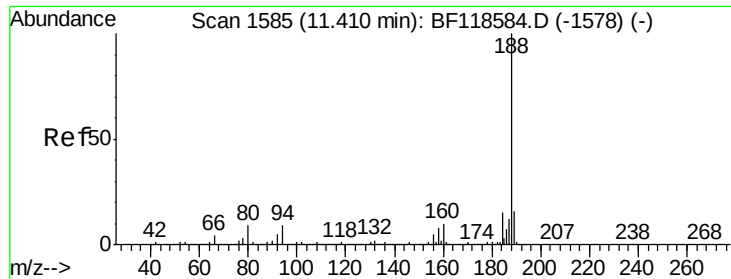
mohammad
1/22/2020 1:36:52 PM



#58
Fluorene
Concen: 27.495 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.9	77.3	115.9
167	13.8	11.5	17.3





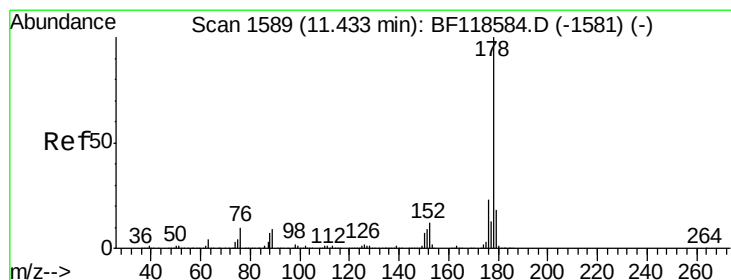
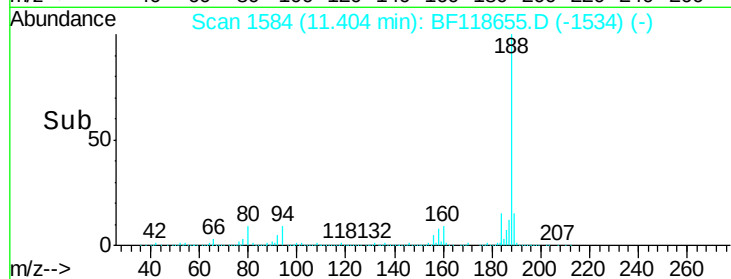
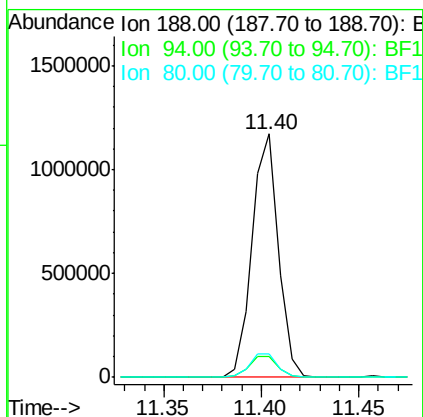
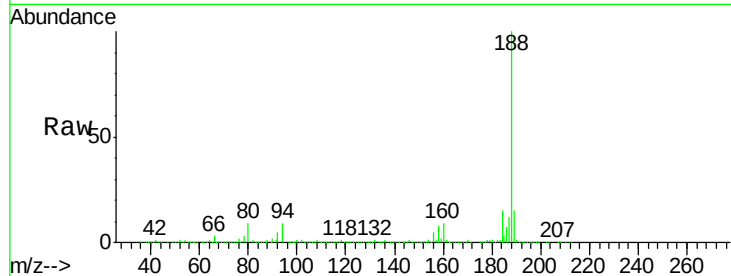
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
188	100		
94	8.6	7.1	10.7
80	9.4	7.5	11.3

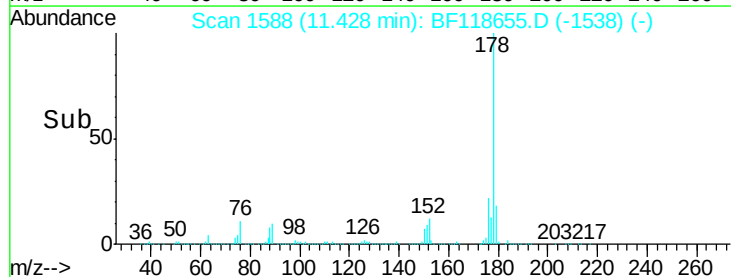
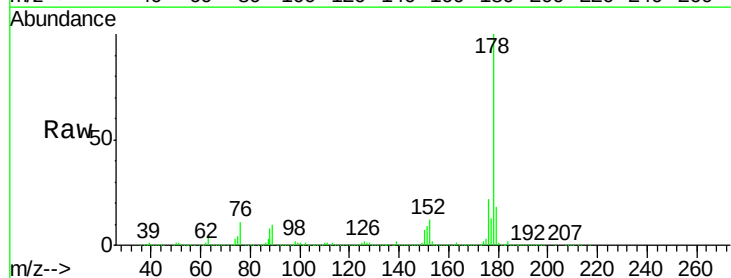
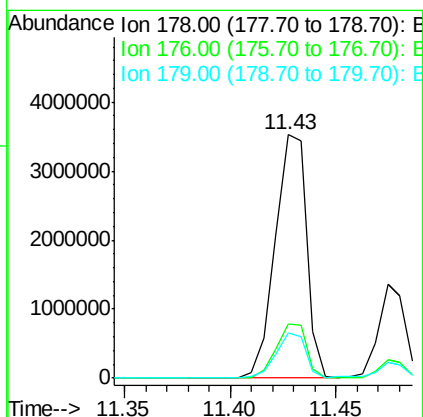
Manual Integrations
APPROVED

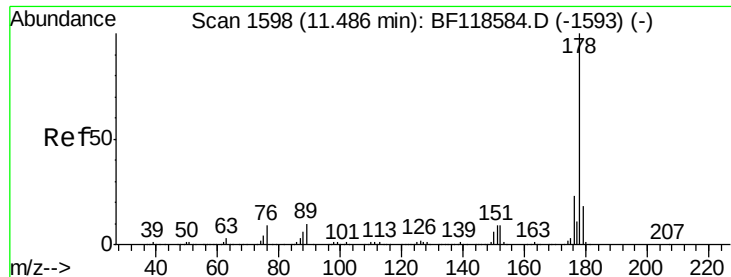
mohammad
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#71
Phenanthrene
Concen: 69.227 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
178	100		
176	22.5	18.6	27.8
179	18.4	14.7	22.1





#72

Anthracene

Concen: 22.549 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF118655.D

Acq: 22 Jan 2020 1:56

Instrument :

BNA_F

ClientSampleId :

SB-12-(4-6)DL

Tot Ion:178 Resp: 1181488

Ion Ratio Lower Upper

178 100

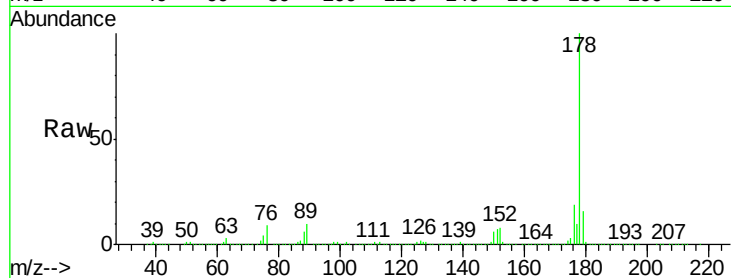
176 19.4 18.0 27.0

179 16.3 14.7 22.1

Manual Integrations
APPROVED

mohammad

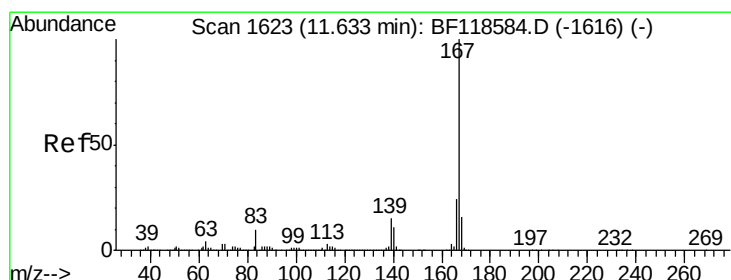
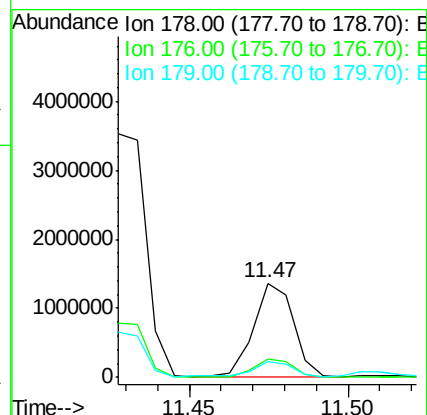
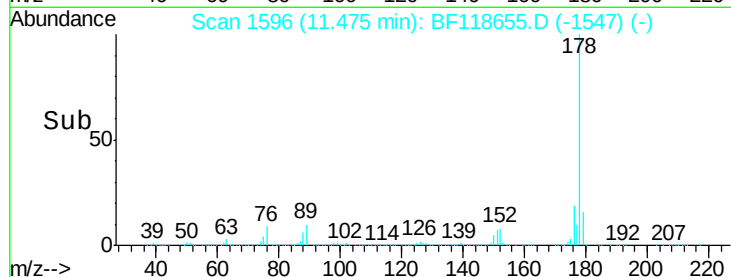
1/22/2020 1:36:52 PM



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: 7.384 ng

RT: 11.62 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BF118655.D

Acq: 22 Jan 2020 1:56

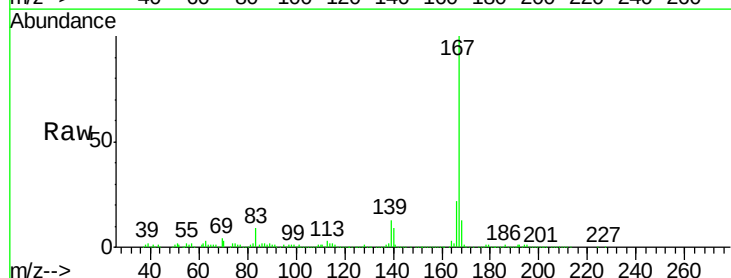
Tgt Ion:167 Resp: 354898

Ion Ratio Lower Upper

167 100

166 21.7 19.4 29.2

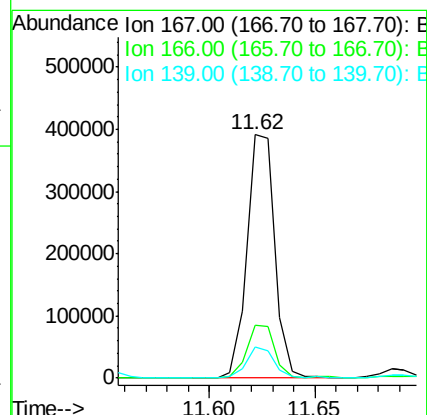
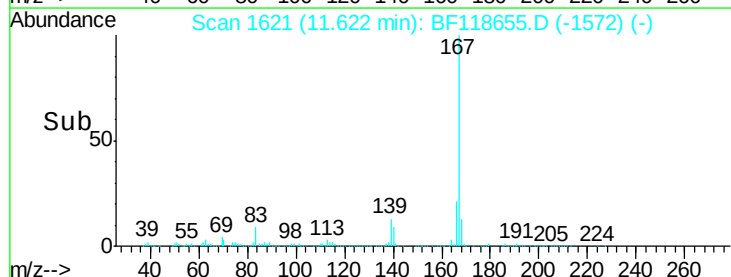
139 12.8 11.7 17.5

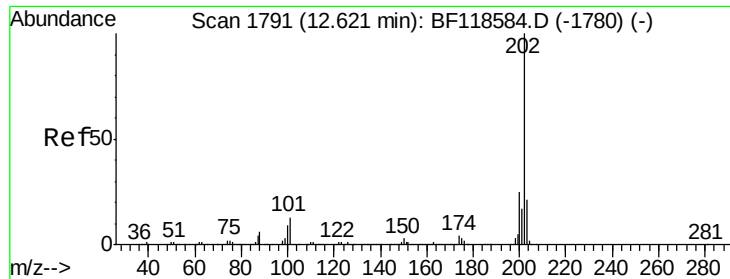


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





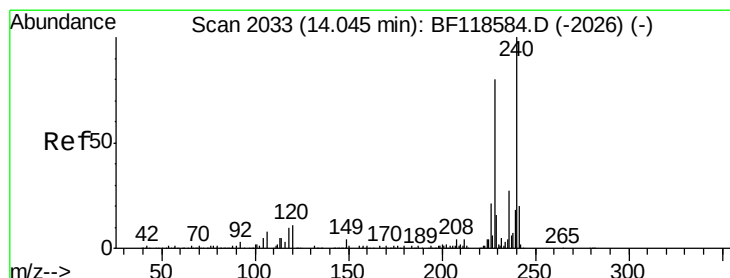
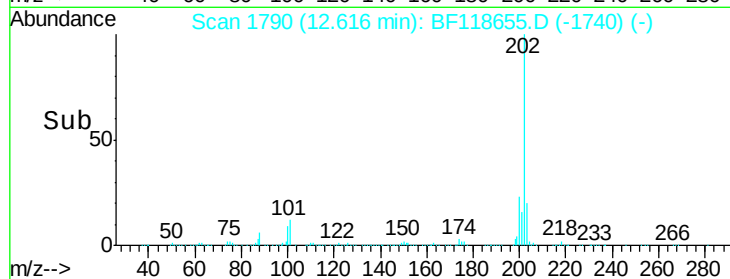
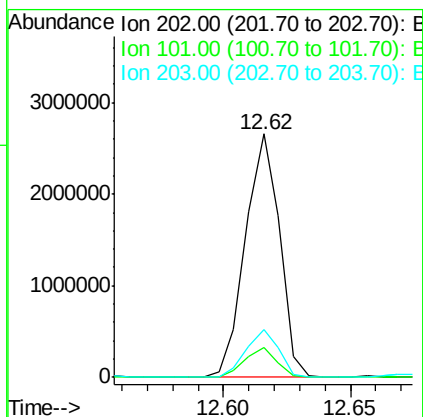
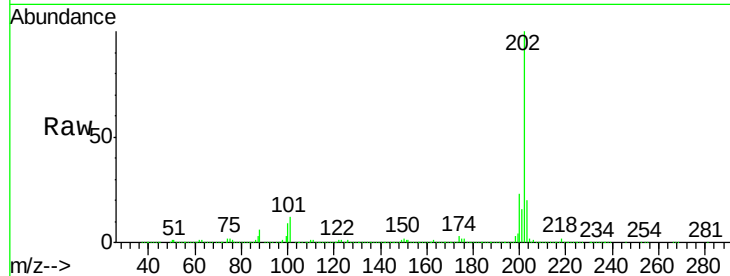
#75
Fluoranthene
Concen: 44.534 ng
RT: 12.62 min Scan# 1790
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.5
203	19.5	0.8	40.8

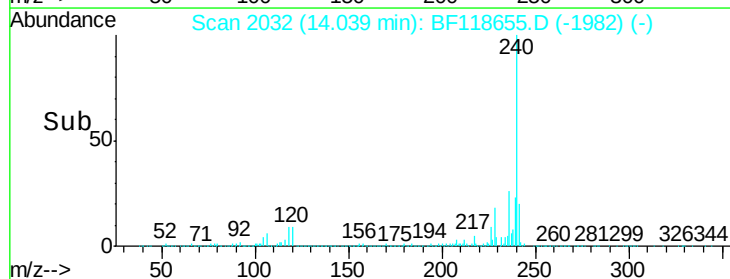
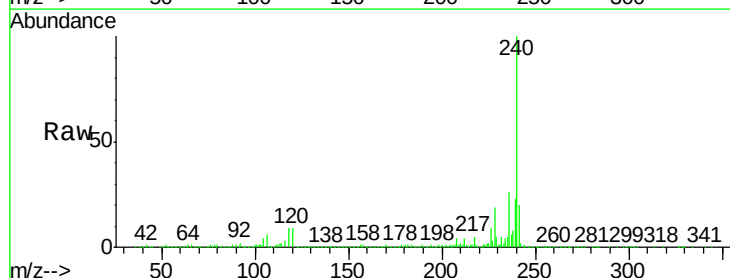
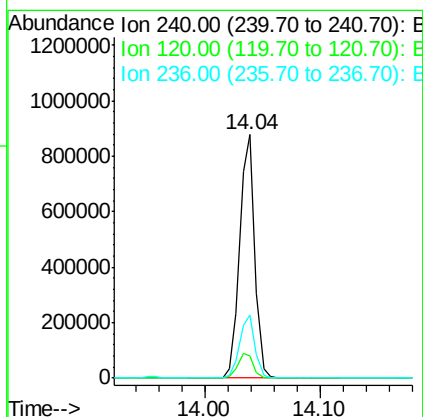
Manual Integrations
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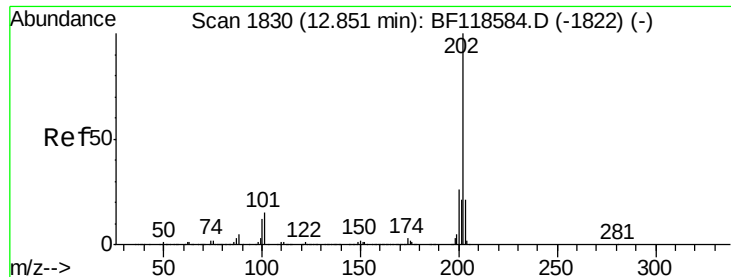
mohammad
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.9	13.3
236	25.7	21.5	32.3





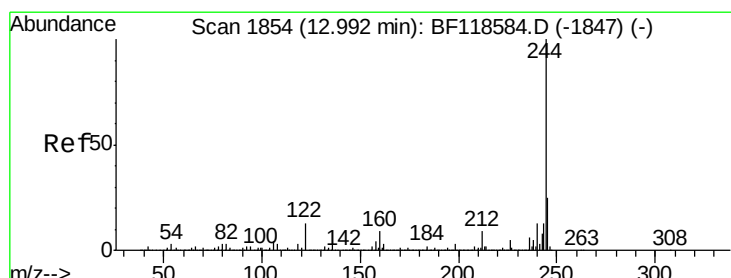
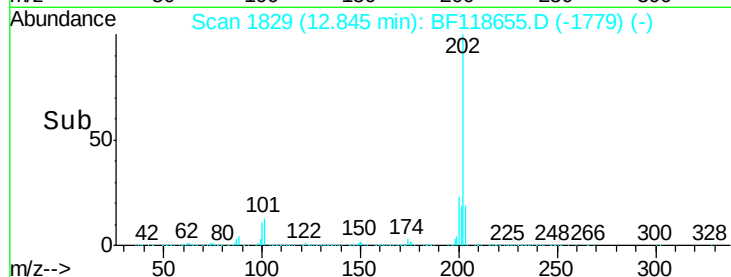
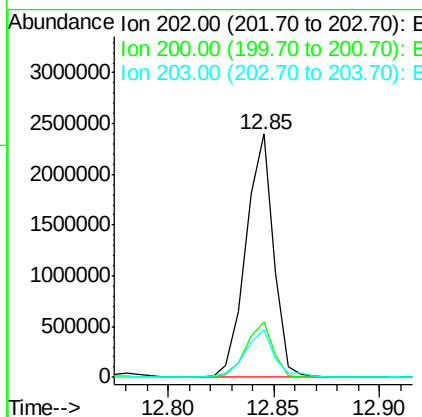
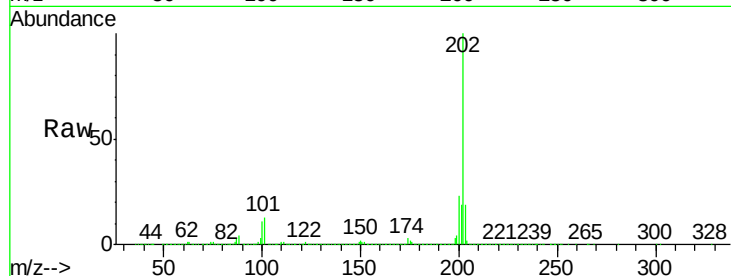
#78
Pvrene
Concen: 40.374 ng
RT: 12.85 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.8	20.6	31.0
203	19.4	16.8	25.2

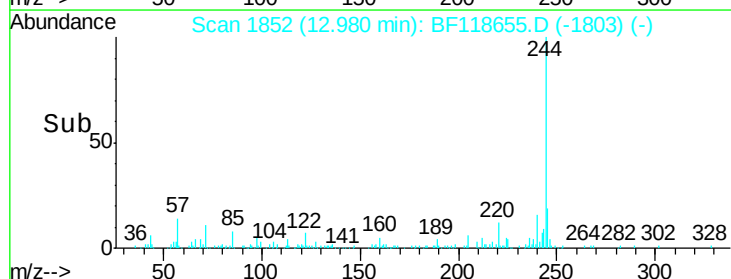
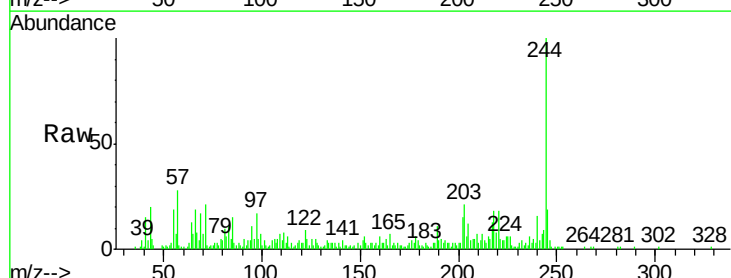
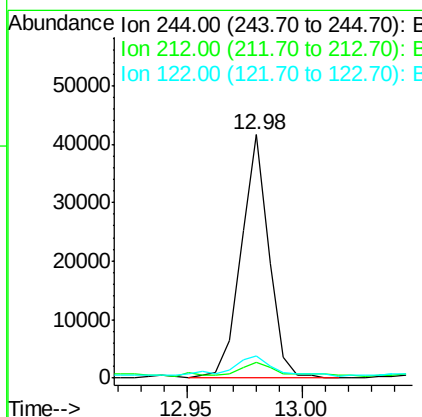
Manual Integrations
APPROVED

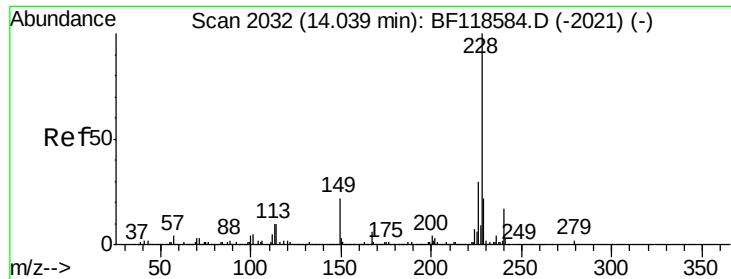
mohammad
1/22/2020 1:36:52 PM



#79
Terphenyl-d14
Concen: 0.960 ng
RT: 12.98 min Scan# 1852
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	7.0	10.4#
122	9.1	10.7	16.1#





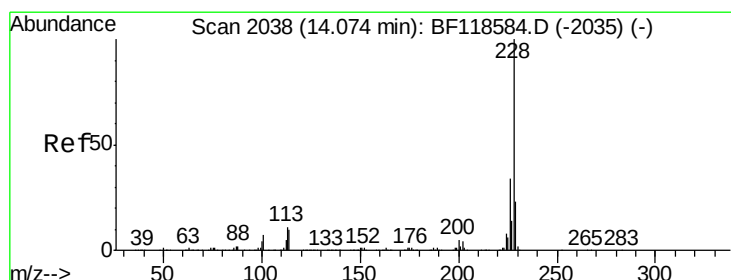
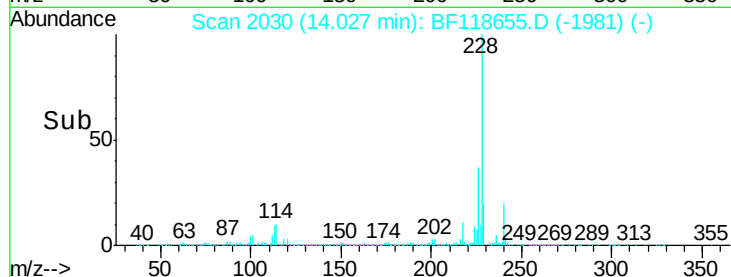
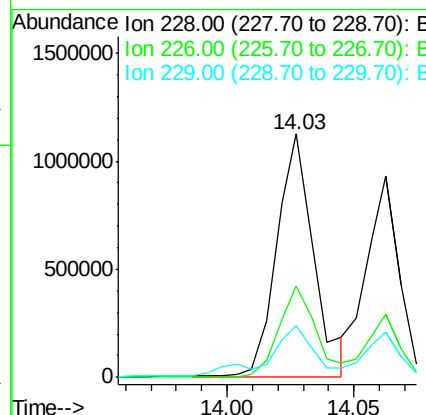
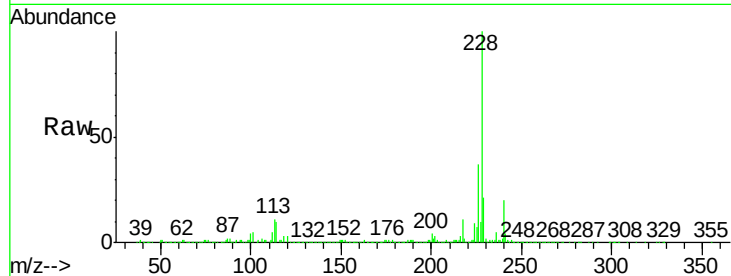
#81
Benzo(a)anthracene
Concen: 23.900 ng m
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion:228 Resp: 1138043
Ion Ratio Lower Upper
228 100
226 37.4 24.1 36.1#
229 21.2 17.6 26.4

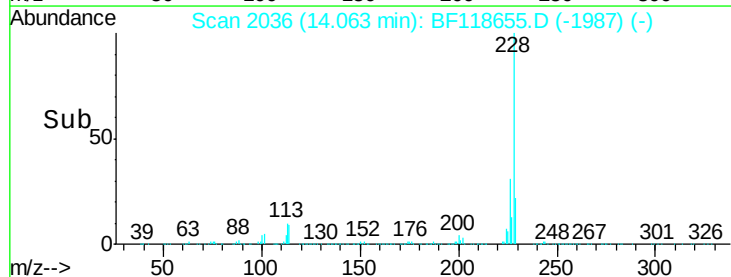
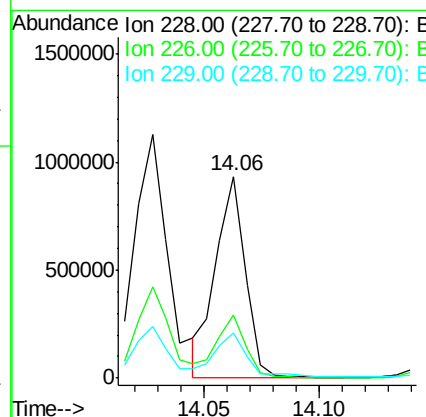
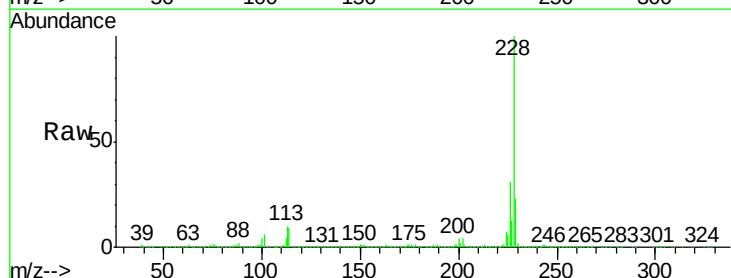
Manual Integrations
APPROVED

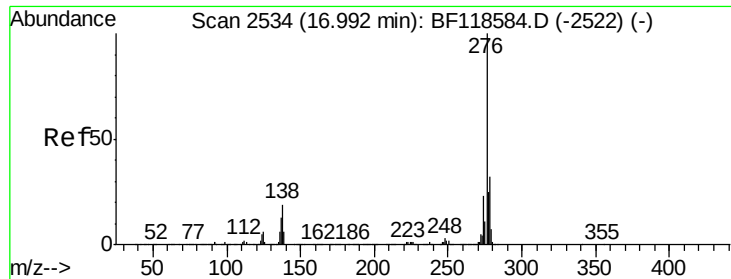
mohammad
1/22/2020 1:36:52 PM



#83
Chrysene
Concen: 18.029 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion:228 Resp: 822774
Ion Ratio Lower Upper
228 100
226 31.0 27.4 41.0
229 22.6 18.3 27.5





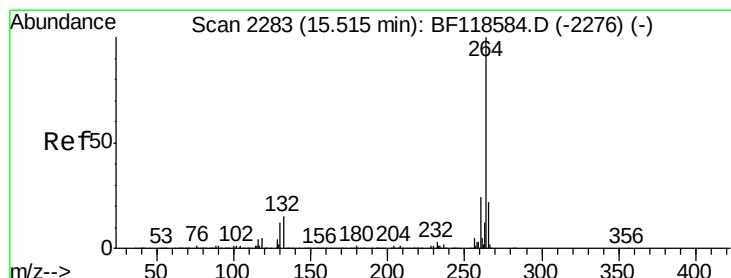
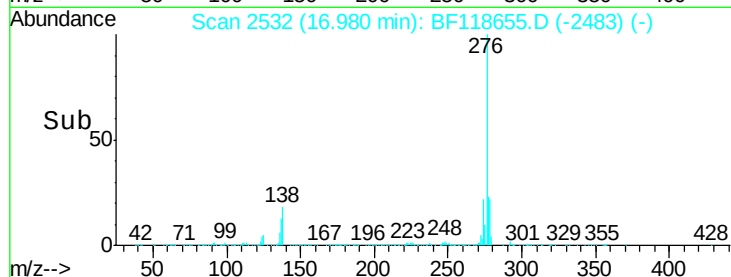
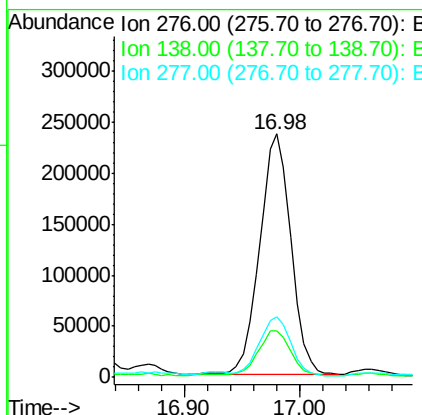
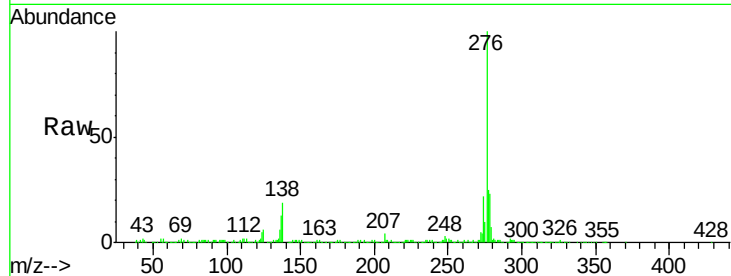
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.227 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF118655.D
 Acq: 22 Jan 2020 1:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-12-(4-6)DL

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
138	19.7	17.2	25.8	
277	24.8	20.5	30.7	

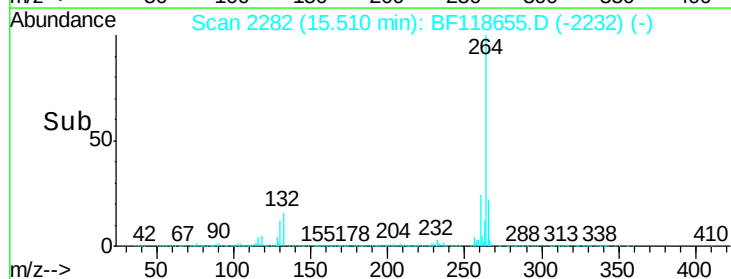
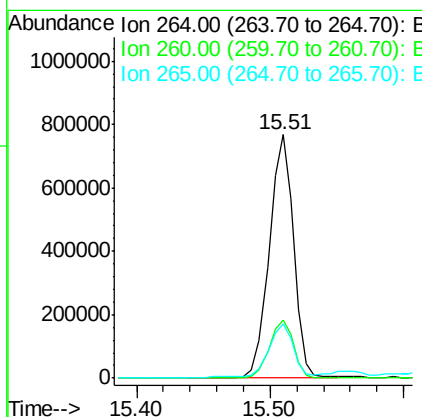
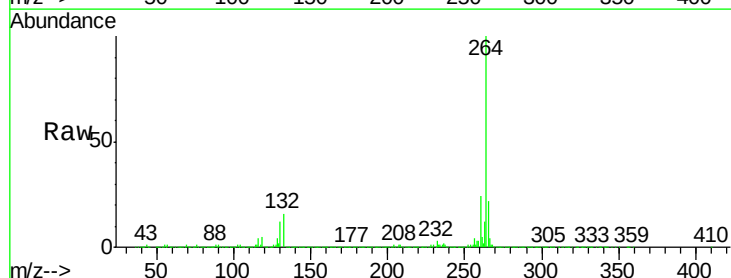
Manual Integrations
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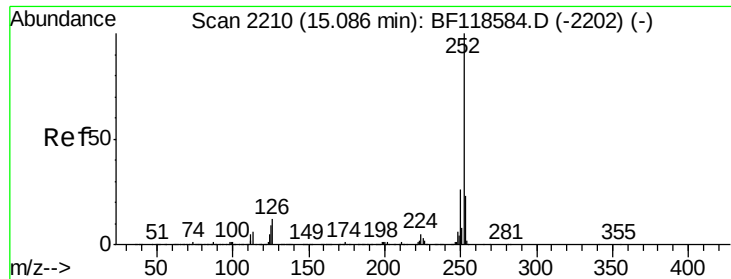
mohammad
 1/22/2020 1:36:52 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BF118655.D
 Acq: 22 Jan 2020 1:56

Tgt Ion	Ion	Ratio	Lower	Upper
264	100			
260	23.9	19.6	29.4	
265	22.5	17.7	26.5	





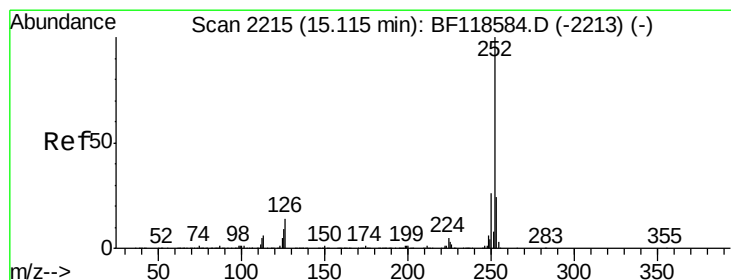
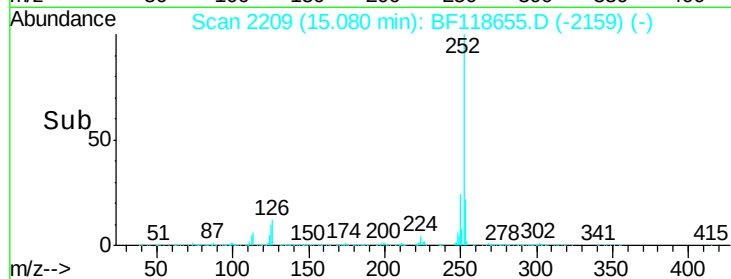
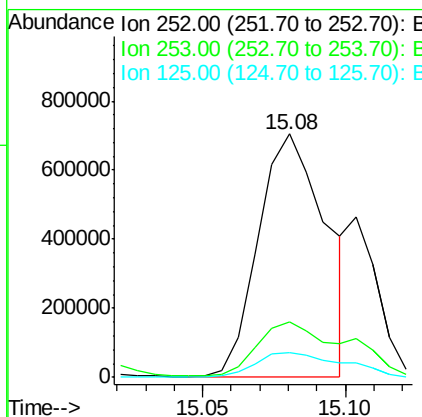
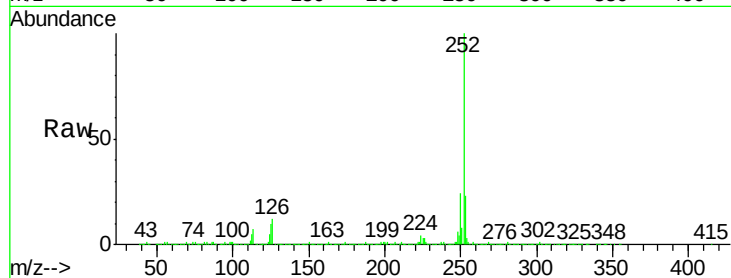
#88
Benzo(b)fluoranthene
Concen: 18.852 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion:252 Resp: 1153940
Ion Ratio Lower Upper
252 100
253 22.7 18.7 28.1
125 10.3 7.3 10.9

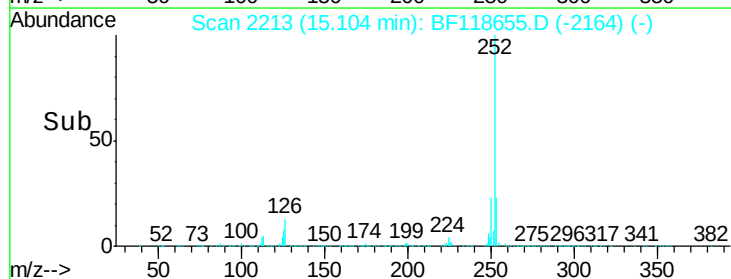
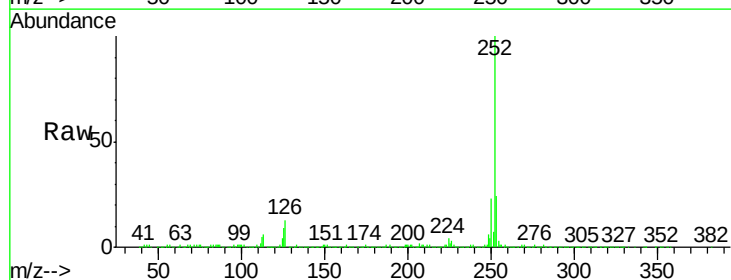
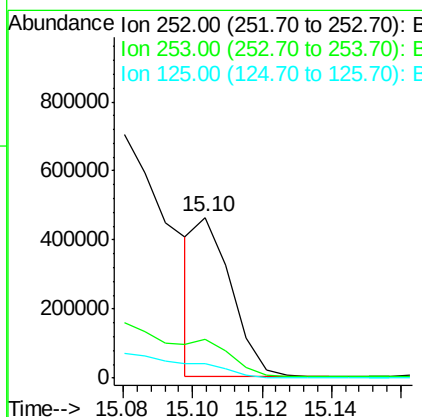
Manual Integrations
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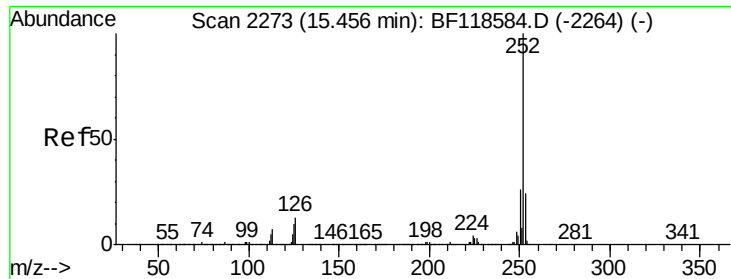
mohammad
1/22/2020 1:36:52 PM



#89
Benzo(k)fluoranthene
Concen: 5.726 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tgt Ion:252 Resp: 324719
Ion Ratio Lower Upper
252 100
253 24.1 19.0 28.4
125 8.8 7.6 11.4





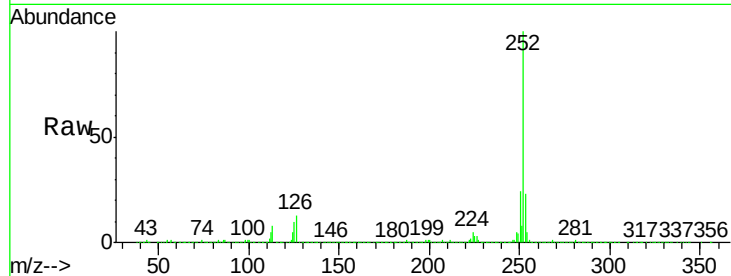
#90
Benzo(a)pyrene
Concen: 17.504 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.8	28.2
125	9.8	7.8	11.6

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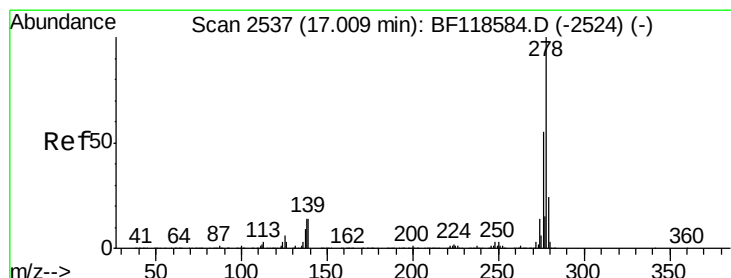
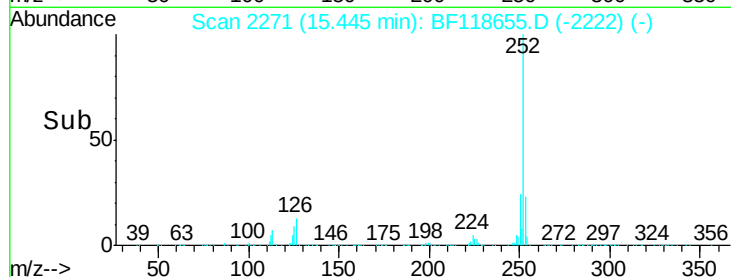
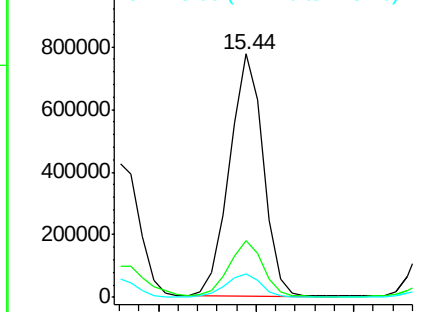


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 2.702 ng m
RT: 16.99 min Scan# 2533
Delta R.T. -0.02 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

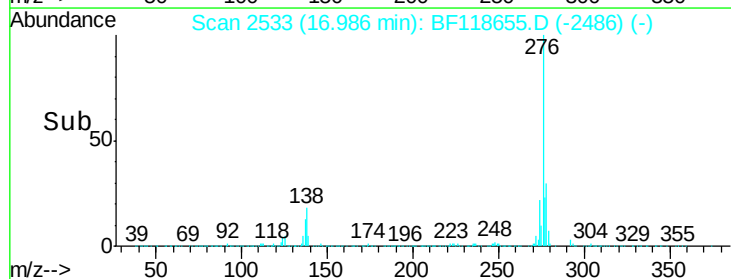
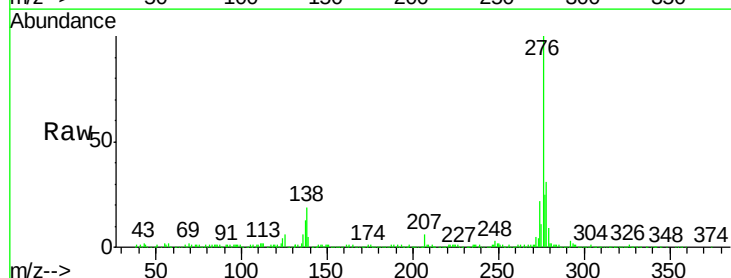
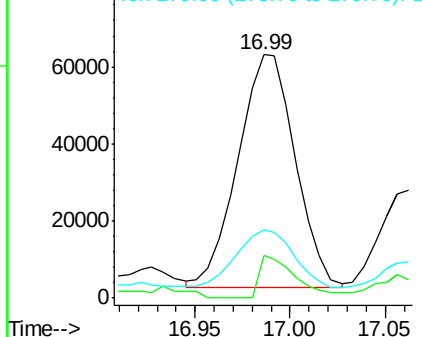
Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.3	11.4	17.0#
279	28.2	19.0	28.6

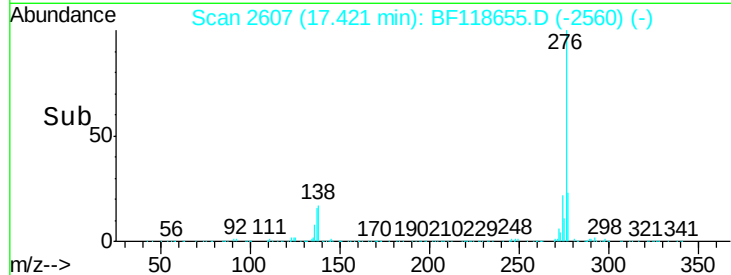
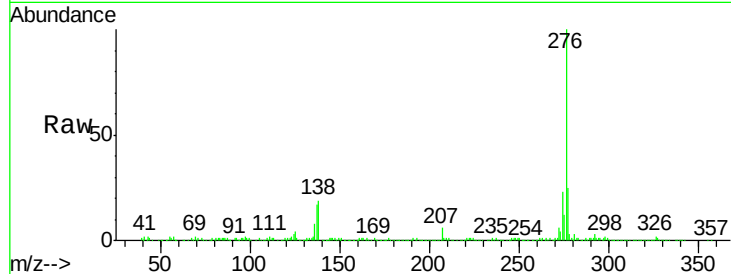
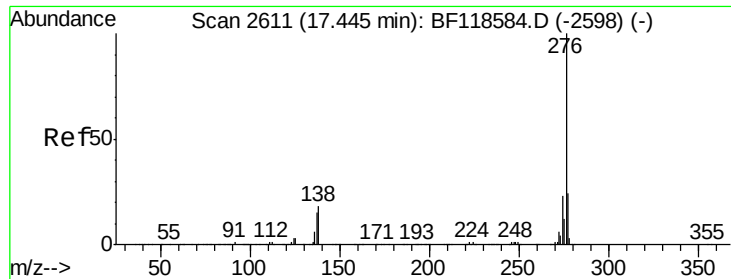
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
Benzo(a,h,i)perylene
Concen: 8.646 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.02 min
Lab File: BF118655.D
Acq: 22 Jan 2020 1:56

Tot Ion:	276	Resp:	392106
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.9	28.3
138	19.2	14.4	21.6

Instrument :
BNA_F
ClientSampleId :
SB-12-(4-6)DL

Manual Integrations
APPROVED

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