

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\
 Data File : BF118911.D
 Acq On : 12 Feb 2020 11:59
 Operator : CG/JU
 Sample : L1482-03DL 50X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP6-EP1-1.5DL

Manual Integrations
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Quant Time: Feb 13 00:21:28 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	205192	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	754496	20.00	ng	-0.02
39) Acenaphthene-d10	9.84	164	382953	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	636470	20.00	ng	-0.01
76) Chrysene-d12	13.96	240	434189	20.00	ng	-0.02
87) Perylene-d12	15.42	264	513926	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	16252	1.50	ng	0.00
7) Phenol-d6	6.45	99	22073	1.64	ng	0.00
23) Nitrobenzene-d5	7.36	82	15479	1.22	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	7791	1.70	ng	-0.02
45) 2-Fluorobiphenyl	9.16	172	38257	1.79	ng	-0.02
79) Terphenyl-d14	12.90	244	40686	1.92	ng	-0.02
Target Compounds						
31) Naphthalene	8.12	128	3117562	90.344	ng	99
37) 2-Methylnaphthalene	8.80	142	1338577	55.931	ng	96
38) 1-Methylnaphthalene	8.90	142	1024390	45.501	ng	100
46) 1,1'-Biphenyl	9.26	154	333902	12.605	ng	97
49) Acenaphthylene	9.70	152	155544	4.892	ng	# 90
52) Acenaphthene	9.87	154	130860	6.245	ng	93
55) Dibenzofuran	10.05	168	69088	2.282	ng	# 86
58) Fluorene	10.39	166	678873	29.800	ng	98
71) Phenanthrene	11.36	178	2467533	78.796	ng	100
72) Anthracene	11.40	178	353696	11.353	ng	97
73) Carbazole	11.56	167	65244	2.386	ng	99
75) Fluoranthene	12.54	202	936002	27.376	ng	99
78) Pylene	12.77	202	1417583	47.591	ng	99
81) Benzo(a)anthracene	13.95	228	510374	19.754	ng	97
83) Chrysene	13.99	228	515770	19.890	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	213578	8.198	ng	98
88) Benzo(b)fluoranthene	15.00	252	381627m	11.967	ng	
89) Benzo(k)fluoranthene	15.01	252	138508m	4.988	ng	
90) Benzo(a)pyrene	15.35	252	465838	17.069	ng	99
91) Dibenz(a,h)anthracene	16.85	278	73185	3.021	ng	# 79
92) Benzo(g,h,i)perylene	17.28	276	240832	10.336	ng	99

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

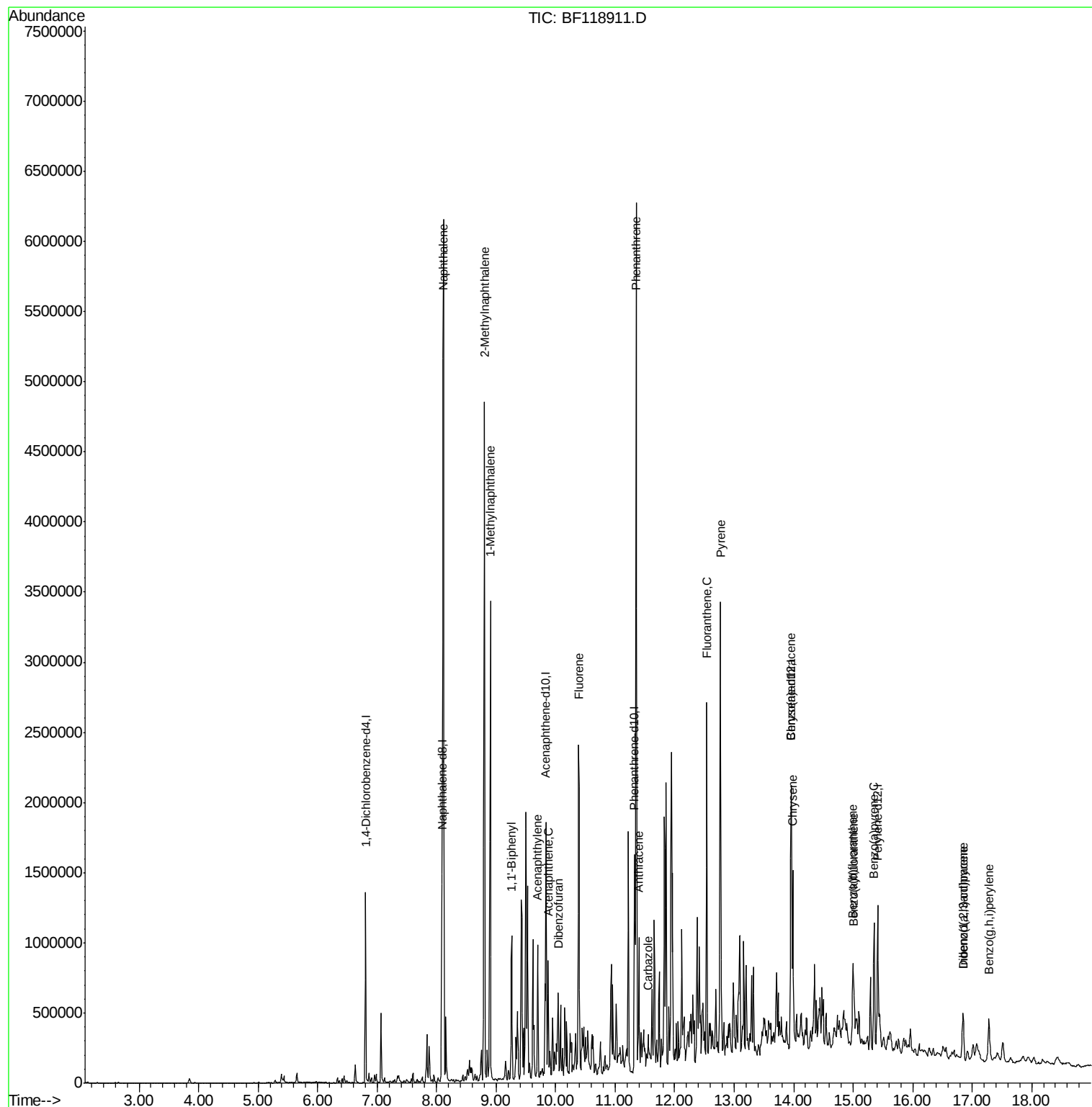
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\
Data File : BF118911.D
Acq On : 12 Feb 2020 11:59
Operator : CG/JU
Sample : L1482-03DL 50X
Misc :
ALS Vial : 4 Sample Multiplier: 1

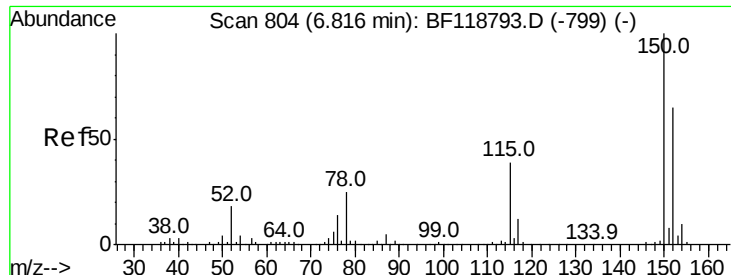
Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

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Quant Time: Feb 13 00:21:28 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 03 16:26:03 2020
Response via : Initial Calibration





#1

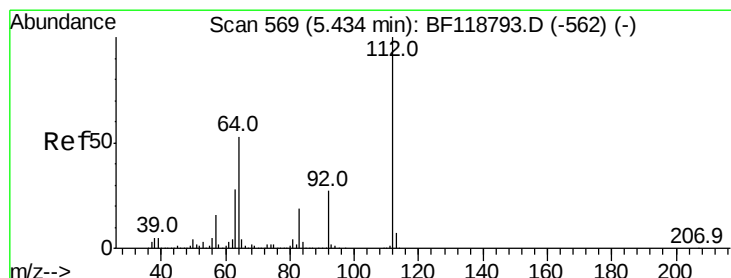
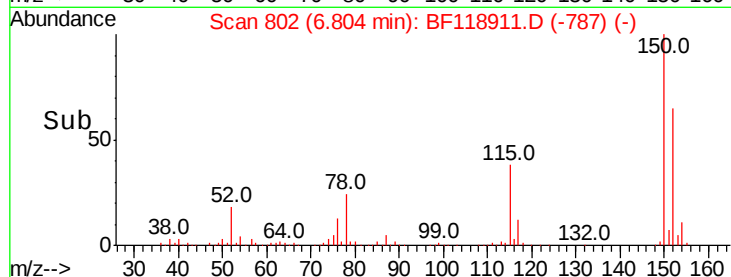
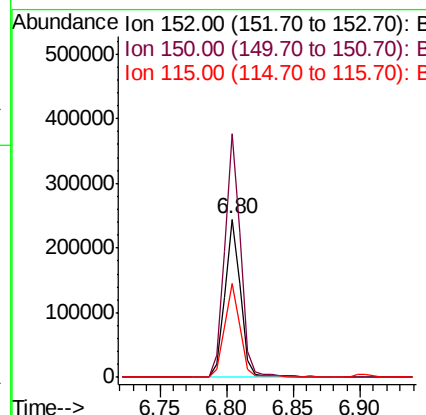
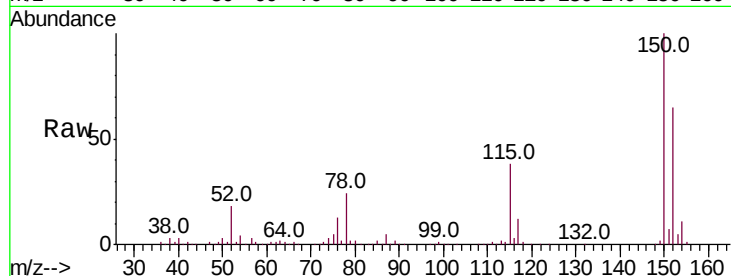
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	123.6	185.4
115	59.0	48.2	72.2

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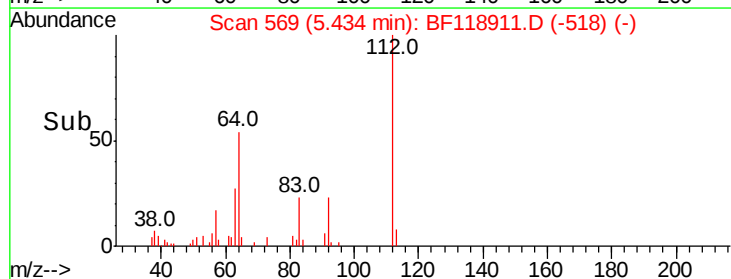
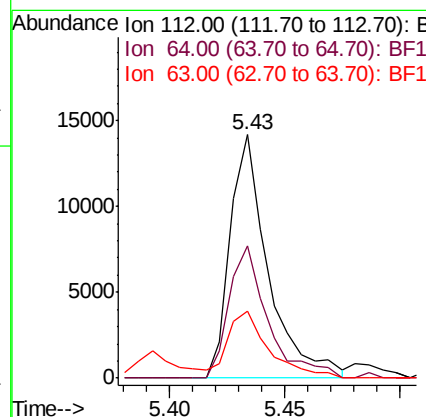
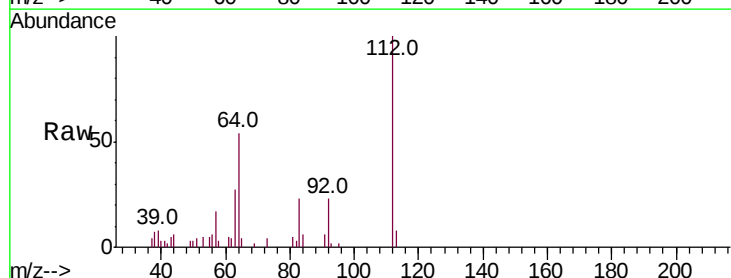
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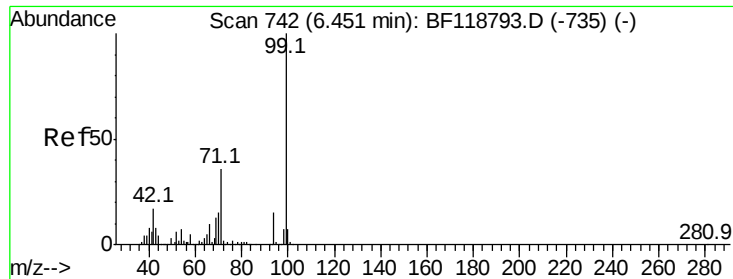


#5

2-Fluorophenol
Concen: 1.499 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.00 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	42.6	63.8
63	27.3	22.2	33.4





#7

Phenol-d6

Concen: 1.640 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Instrument :

BNA_F

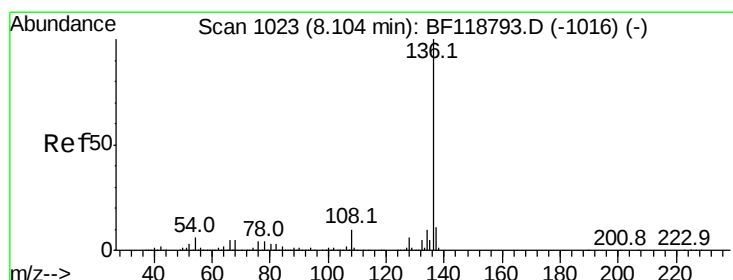
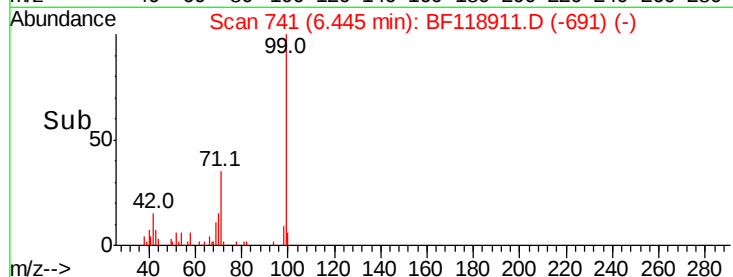
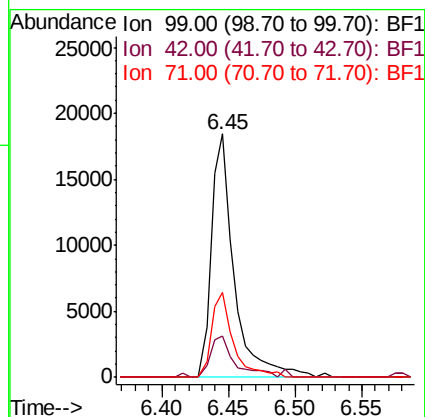
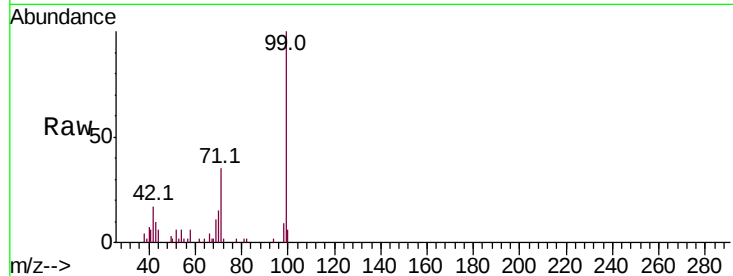
ClientSampled :

TP6-EP1-1.5DL

Tot Ion:	99	Resp:	22073
Ion Ratio	Lower	Upper	
99	100		
42	17.1	13.4	20.0
71	34.6	29.0	43.6

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#21

Naphthalene-d8

Concen: 20.000 ng

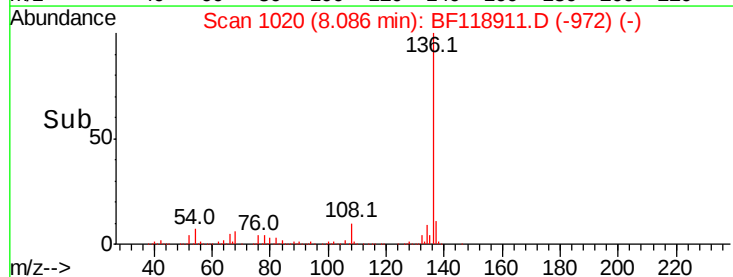
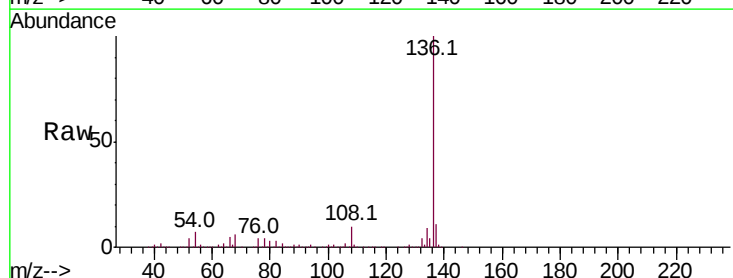
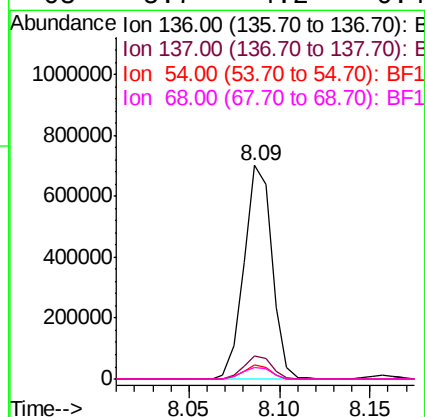
RT: 8.09 min Scan# 1020

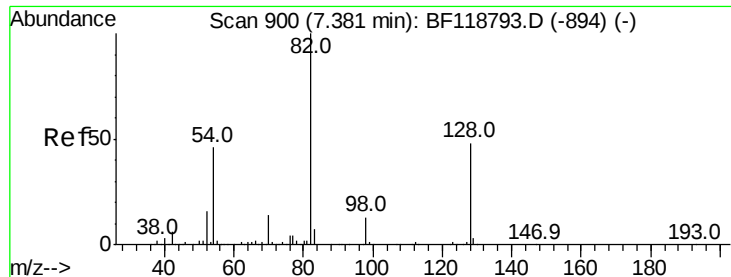
Delta R.T. -0.02 min

Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Tgt Ion:	136	Resp:	754496
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.7	13.1
54	6.5	5.0	7.6
68	5.7	4.2	6.4





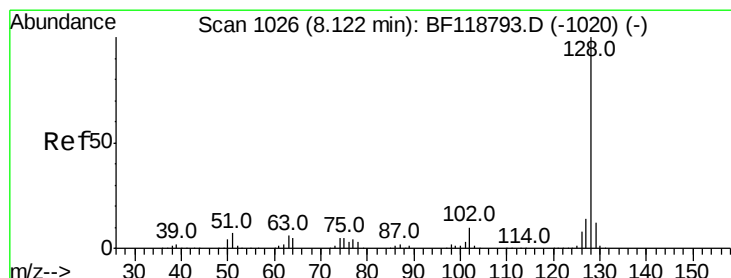
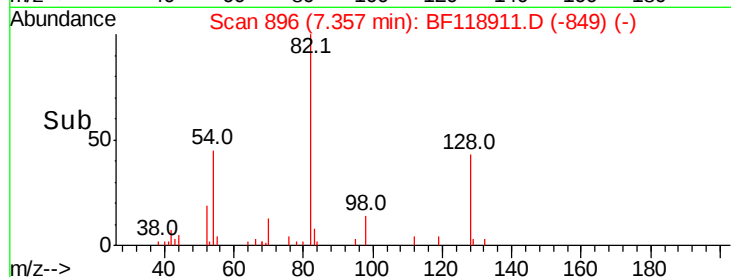
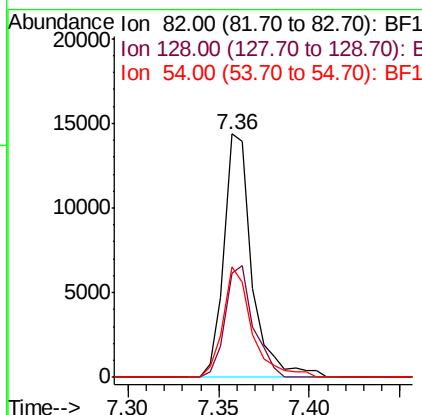
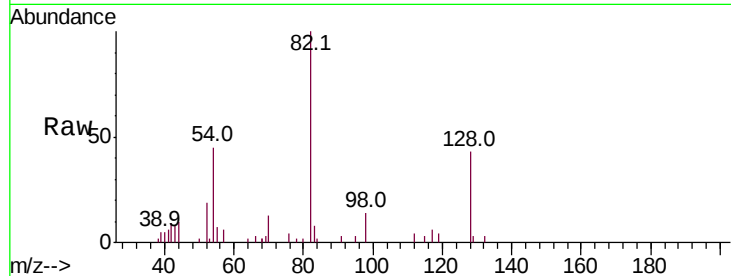
#23
Nitrobenzene-d5
Concen: 1.223 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.8	38.5	57.7
54	45.3	36.7	55.1

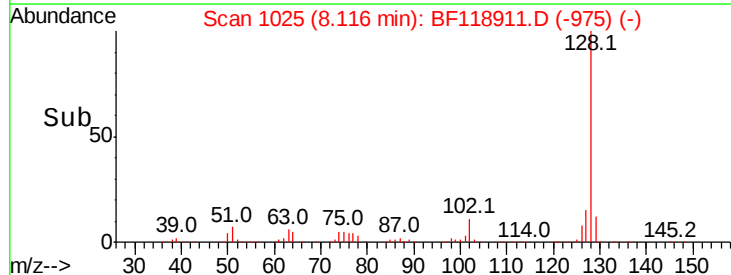
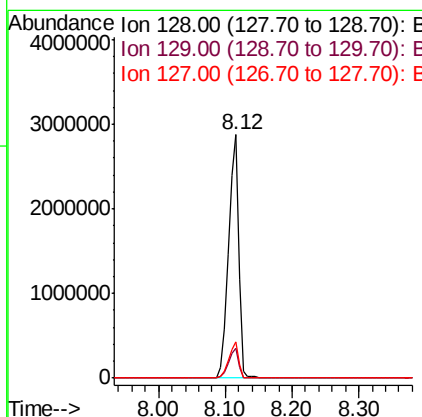
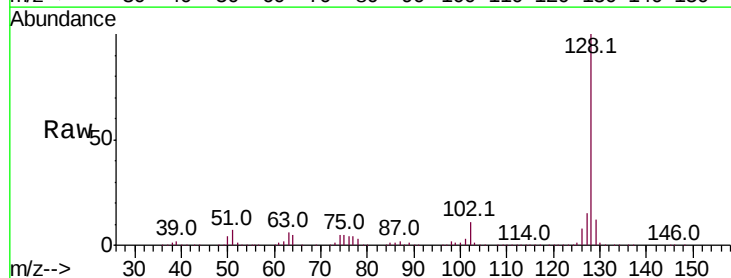
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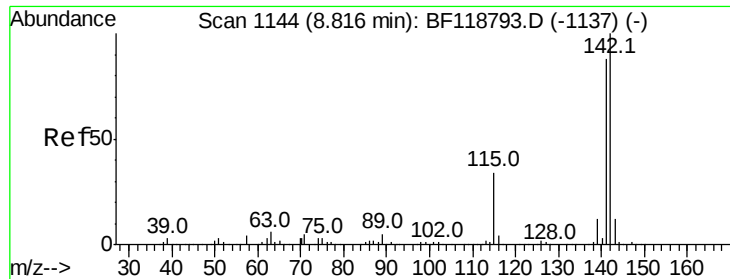
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#31
Naphthalene
Concen: 90.344 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.4	14.2
127	14.7	11.3	16.9





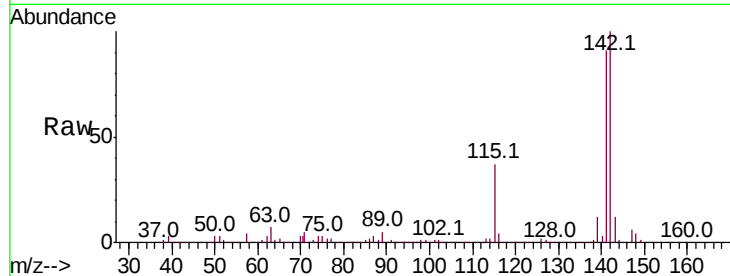
#37
2-Methylnaphthalene
Concen: 55.931 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.5	70.1	105.1
115	37.1	27.3	40.9

Manual Integrations
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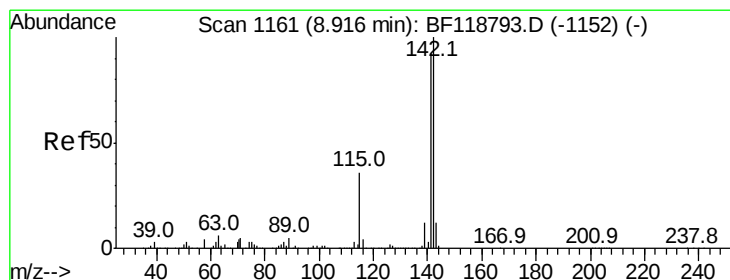
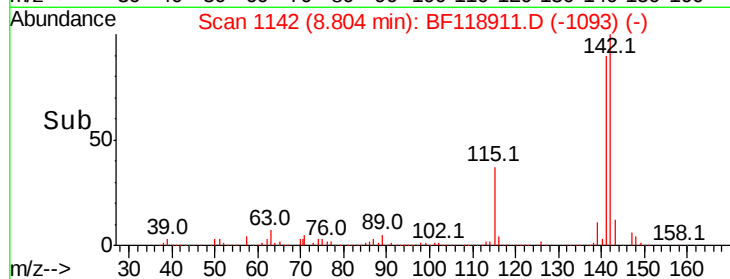
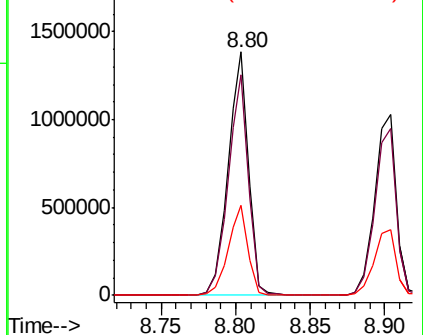


Abundance

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: 45.501 ng
RT: 8.90 min Scan# 1159
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

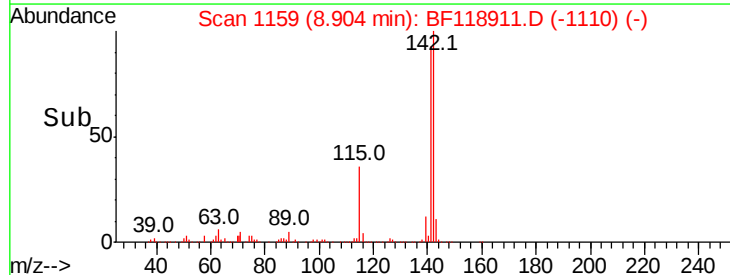
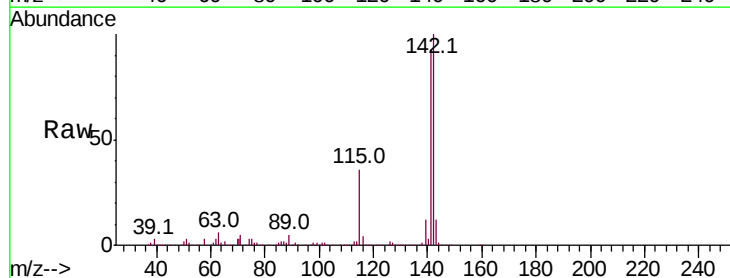
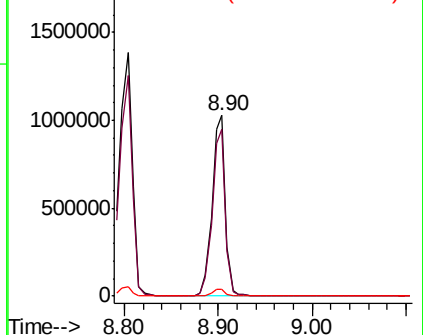
Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.8	110.6
116	3.7	3.0	4.4

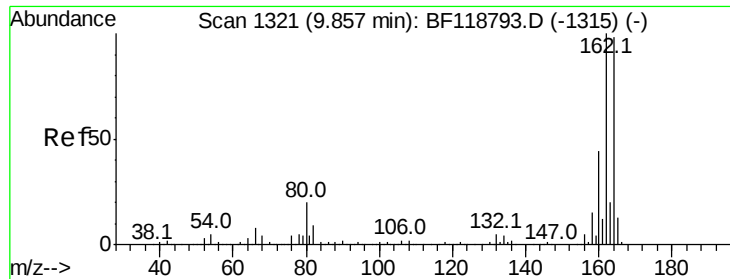
Abundance

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





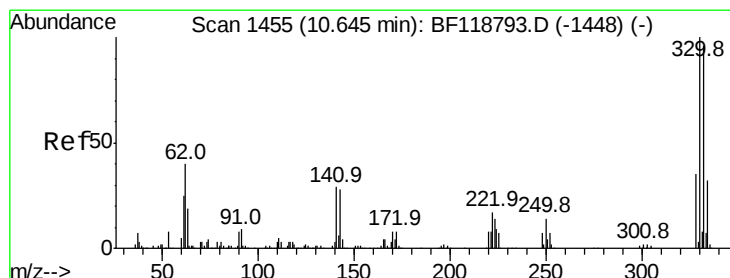
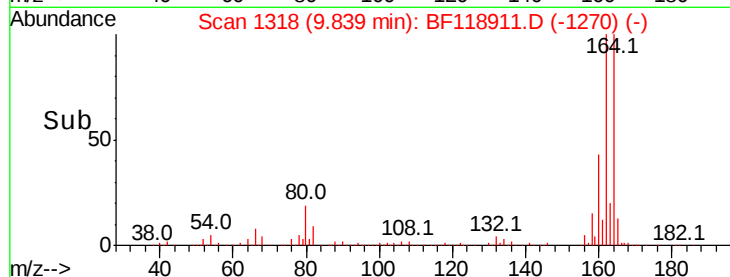
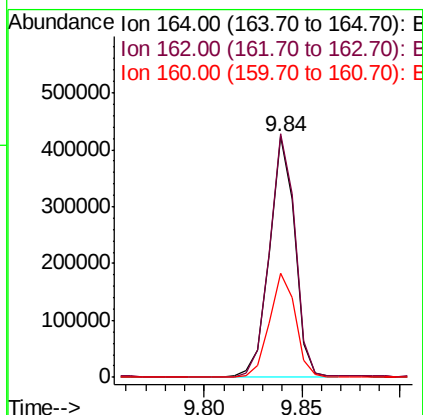
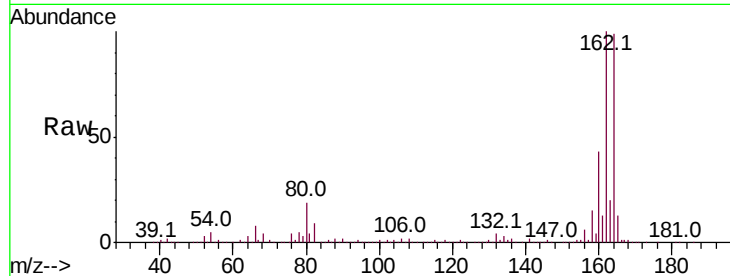
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.4	122.2
160	43.4	35.6	53.4

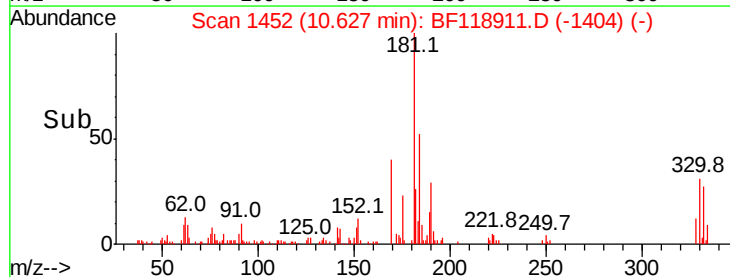
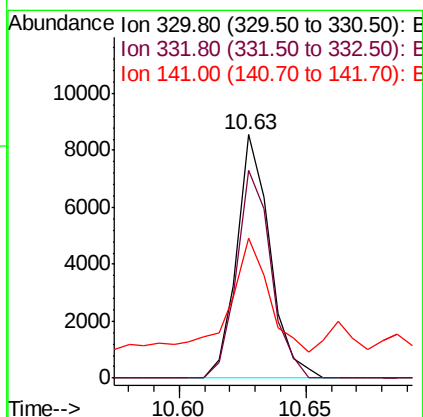
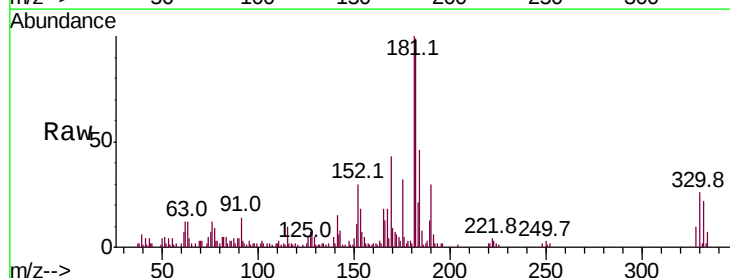
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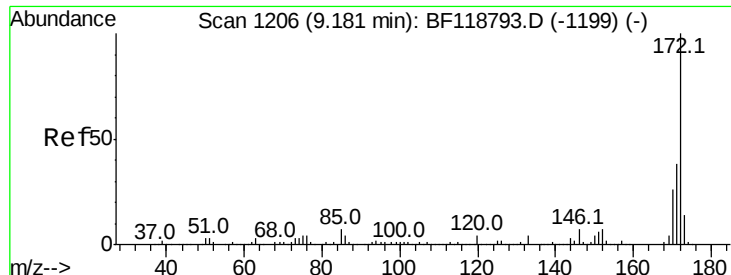
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#42
2,4,6-Tribromophenol
Concen: 1.700 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	87.9	77.3	115.9
141	61.0	22.4	33.6





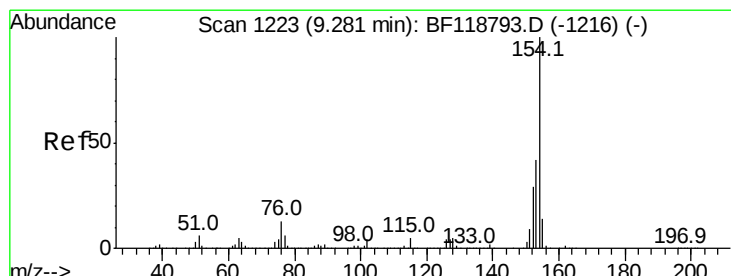
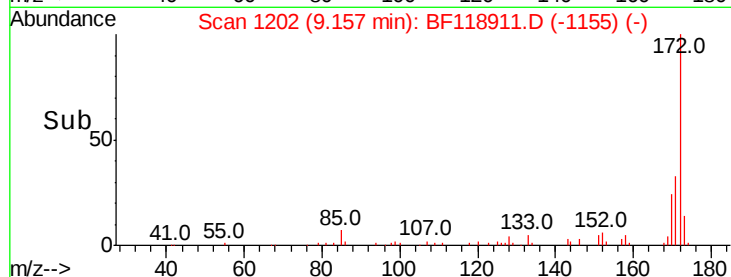
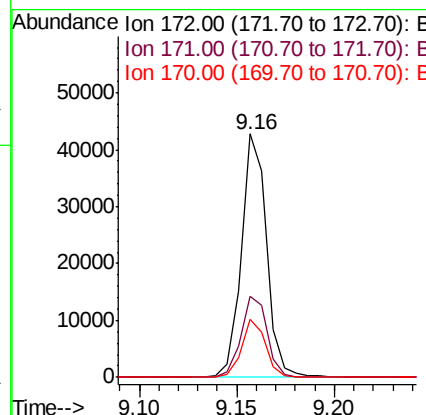
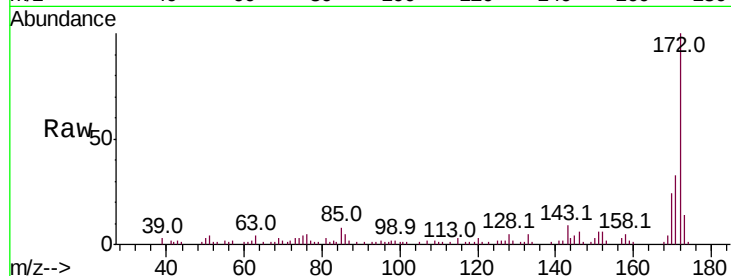
#45
2-Fluorobiphenyl
Concen: 1.786 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.1	30.8	46.2	
170	23.7	20.5	30.7	

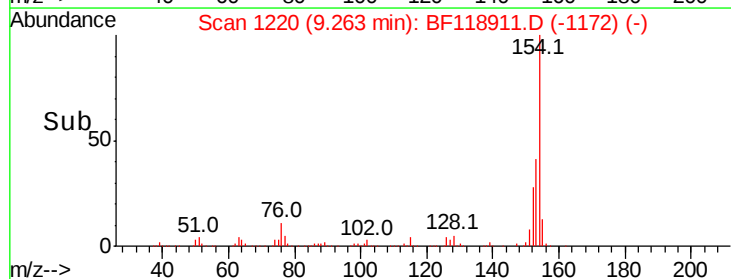
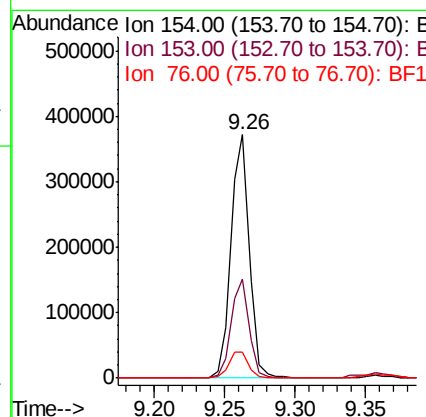
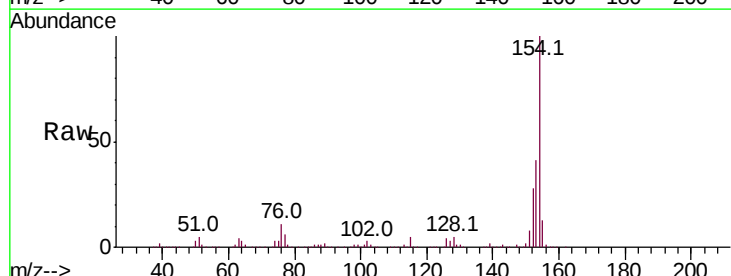
Manual Integrations
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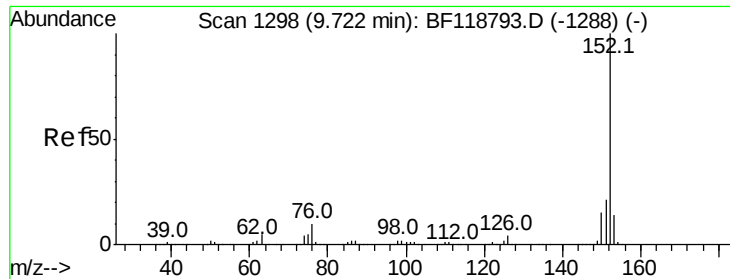
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#46
1,1'-Biphenyl
Concen: 12.605 ng
RT: 9.26 min Scan# 1220
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.7	22.4	62.4	
76	11.0	0.0	32.7	





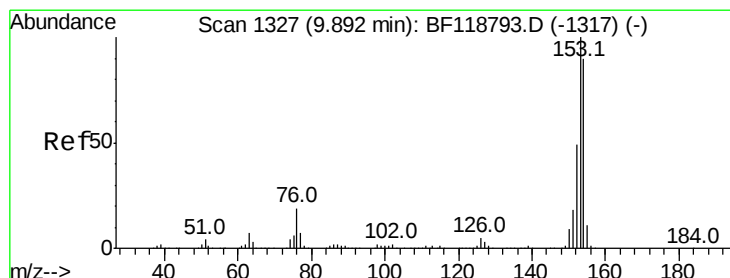
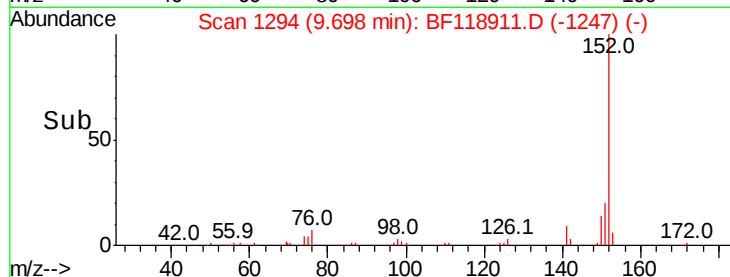
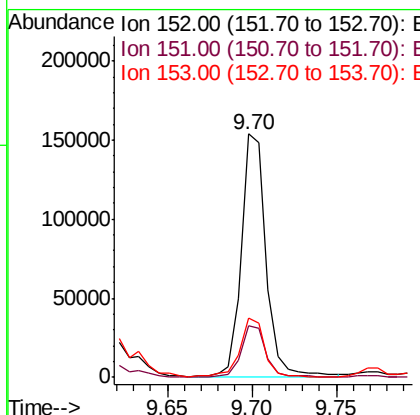
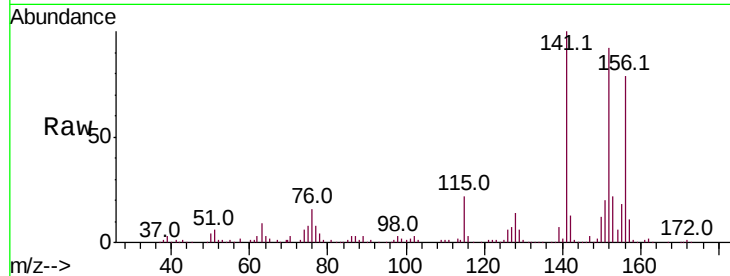
#49
Acenaphthylene
Concen: 4.892 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	155544		
151	21.3	17.1	25.7	
153	24.1	11.0	16.4	

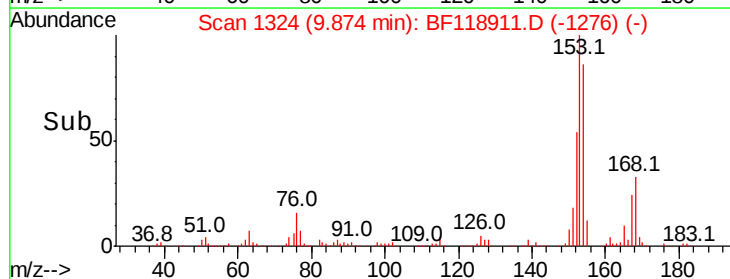
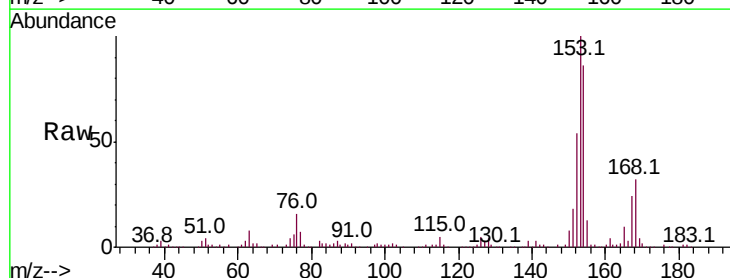
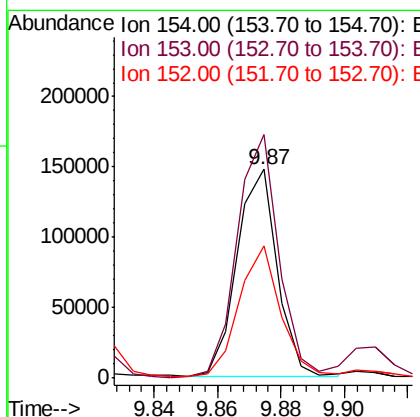
Manual Integrations
APPROVED

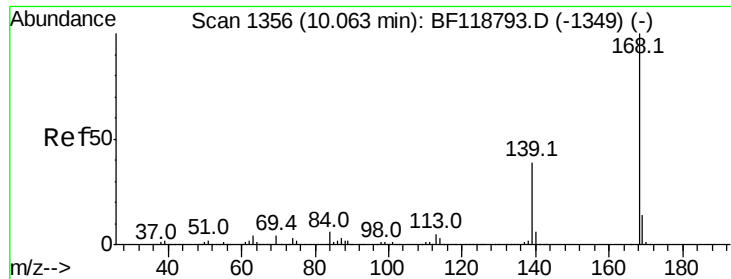
mohammad
2/13/2020 3:34:18 PM



#52
Acenaphthene
Concen: 6.245 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	130860		
153	116.8	89.4	134.0	
152	63.3	43.6	65.4	





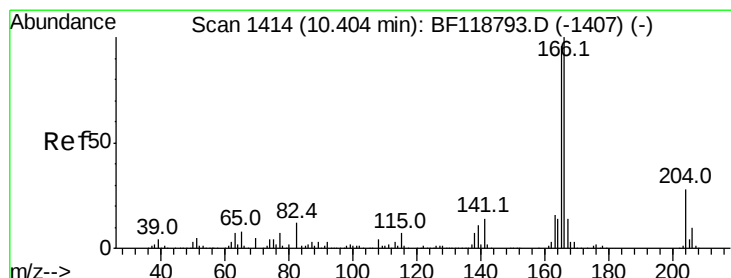
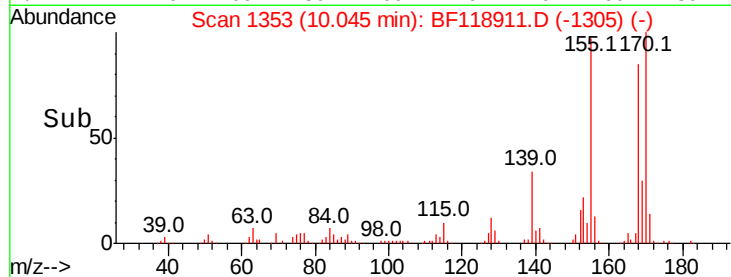
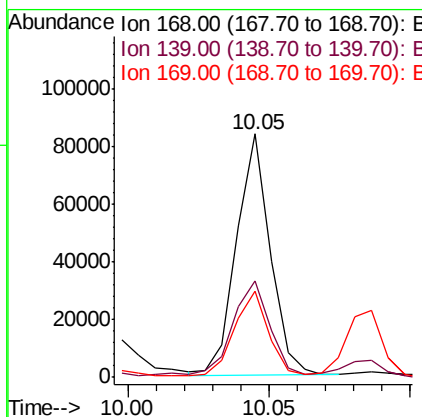
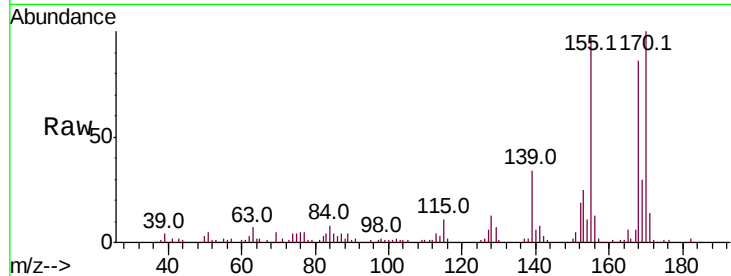
#55
Dibenzenofuran
Concen: 2.282 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Resp	Lower	Upper
168	100	69088		
139	39.4		31.6	47.4
169	35.3		11.4	17.2

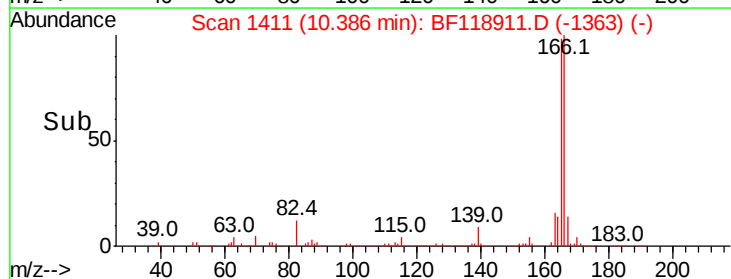
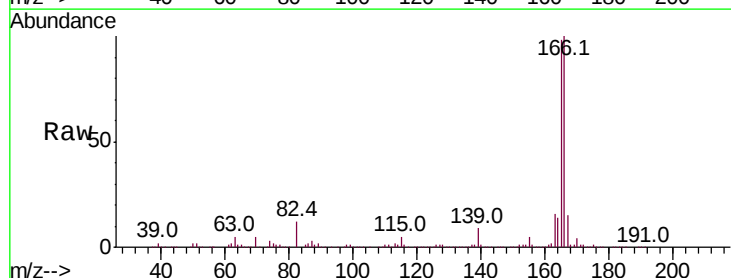
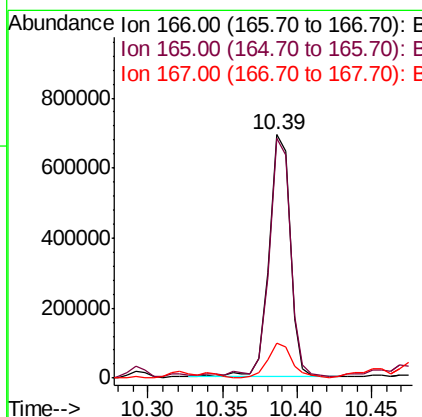
Manual Integrations
APPROVED

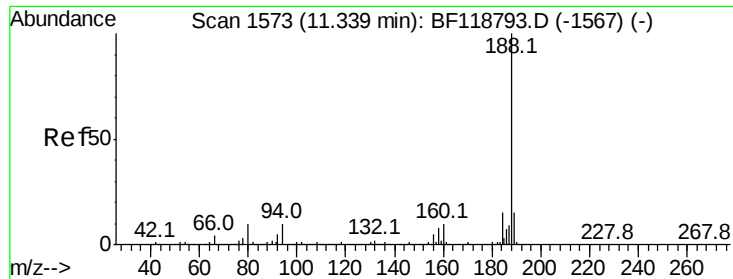
mohammad
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#58
Fluorene
Concen: 29.800 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	678873		
165	98.2		77.0	115.6
167	14.6		11.1	16.7





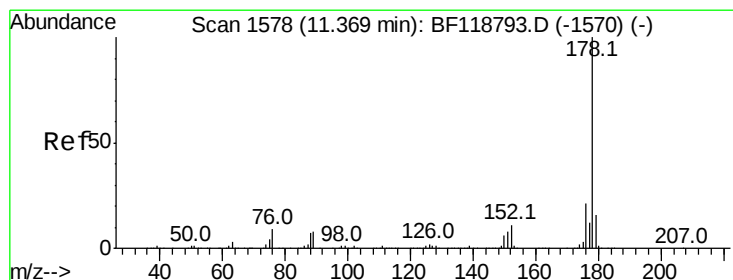
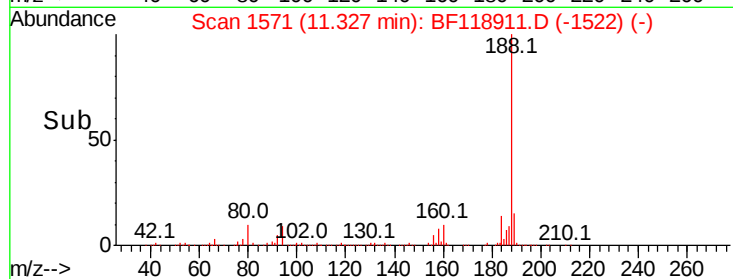
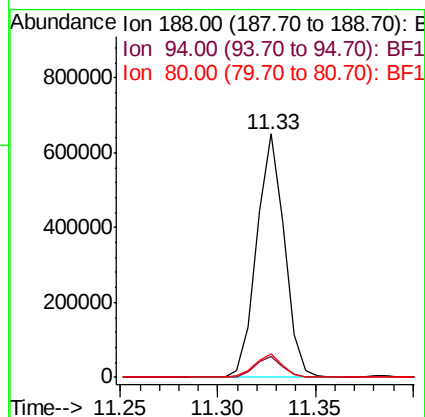
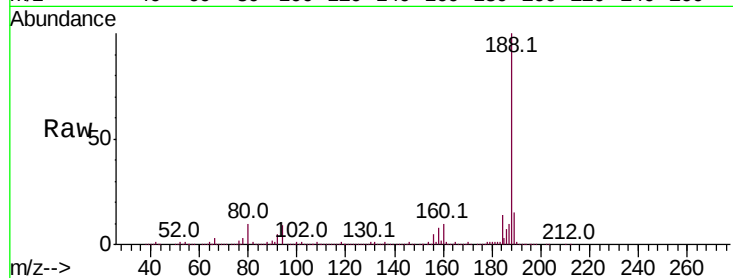
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	636470		
94	8.6		7.9	11.9
80	9.6		8.4	12.6

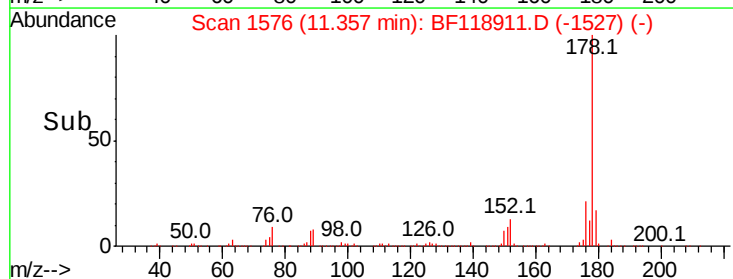
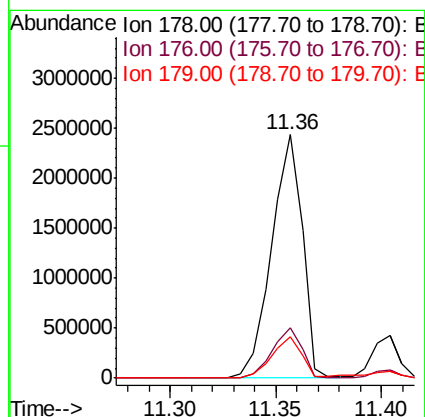
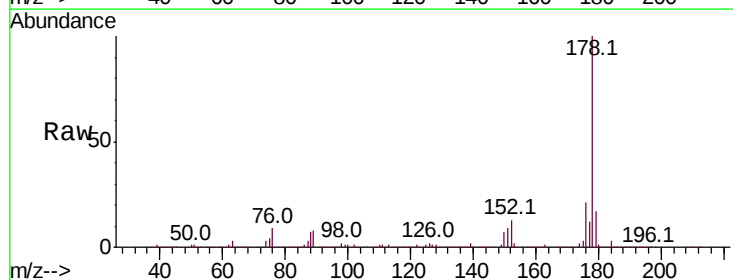
Manual Integrations
APPROVED

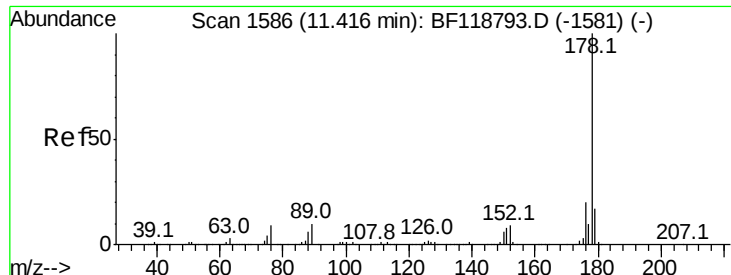
mohammad
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#71
Phenanthrene
Concen: 78.796 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2467533		
176	20.7		16.6	24.8
179	16.8		13.2	19.8





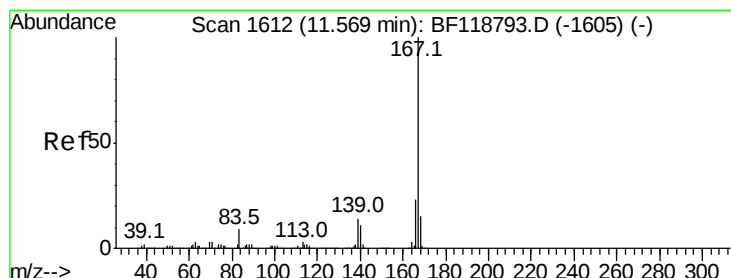
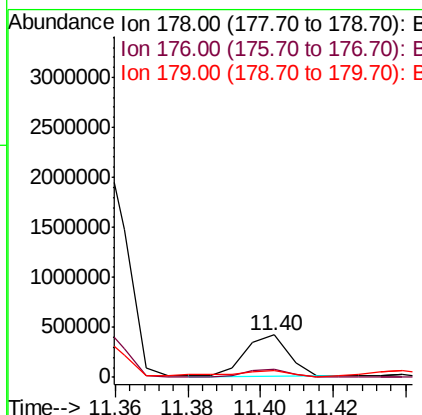
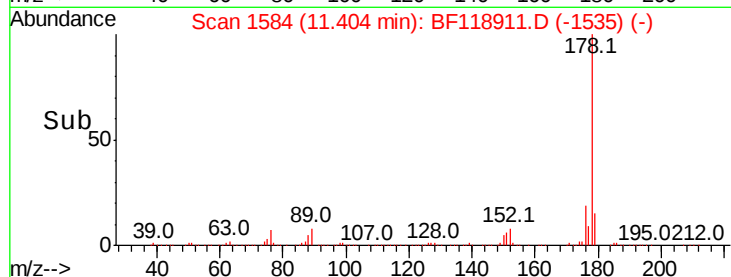
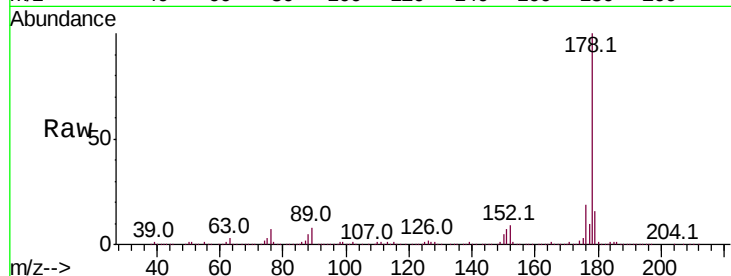
#72
 Anthracene
 Concen: 11.353 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118911.D
 Acq: 12 Feb 2020 11:59

Instrument :
 BNA_F
 ClientSampleId :
 TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.2	24.2
179	15.5	13.4	20.2

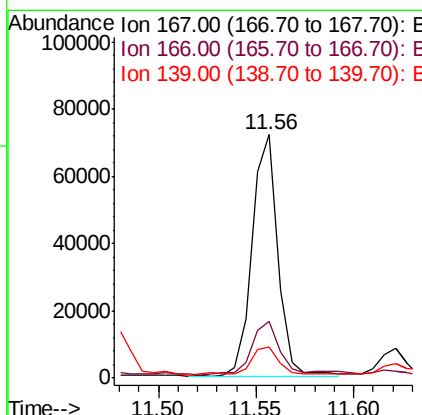
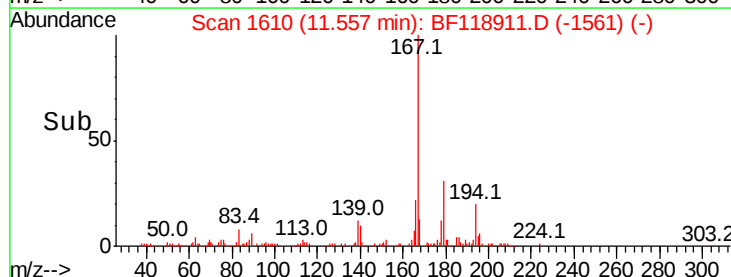
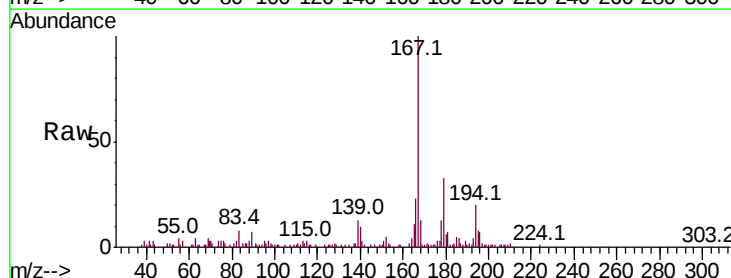
Manual Integrations
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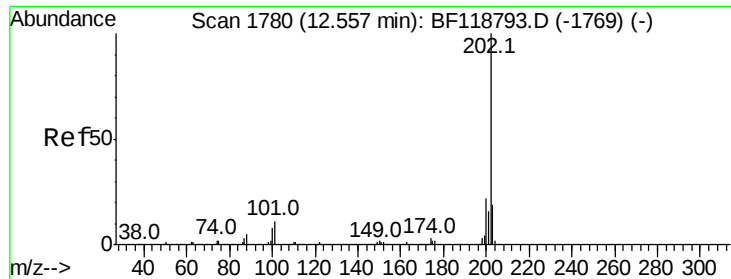
mohammad
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#73
 Carbazole
 Concen: 2.386 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF118911.D
 Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.1	18.4	27.6
139	12.8	11.1	16.7





#75

Fluoranthene

Concen: 27.376 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.02 min

Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Instrument :

BNA_F

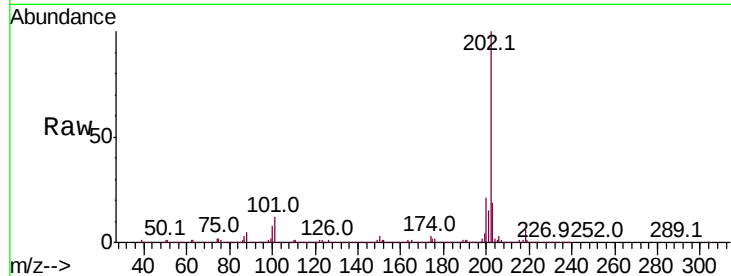
ClientSampleId :

TP6-EP1-1.5DL

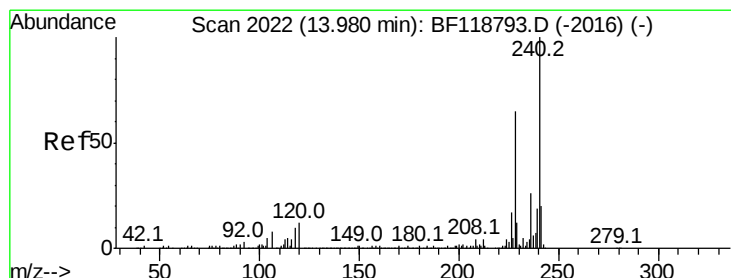
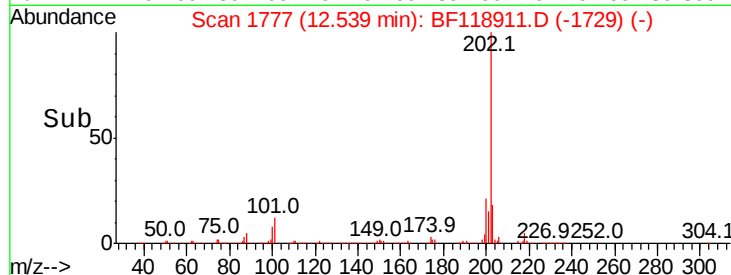
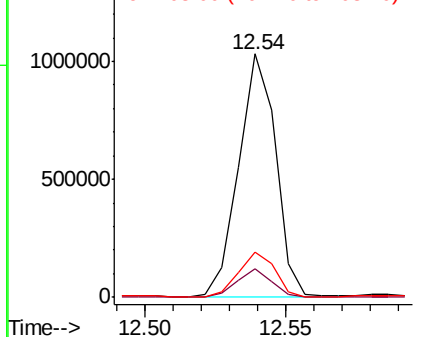
Tot Ion:	202	Resp:	936002
Ion Ratio	Lower	Upper	
202	100		
101	11.6	0.0	31.0
203	18.6	0.0	38.7

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

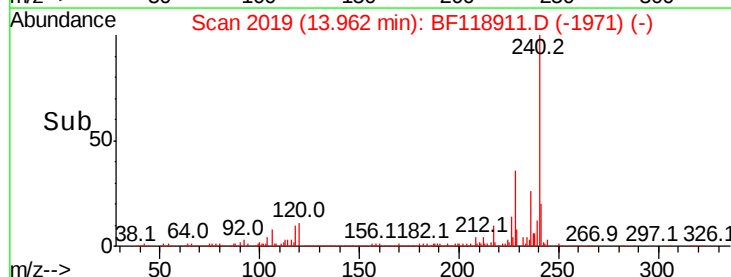
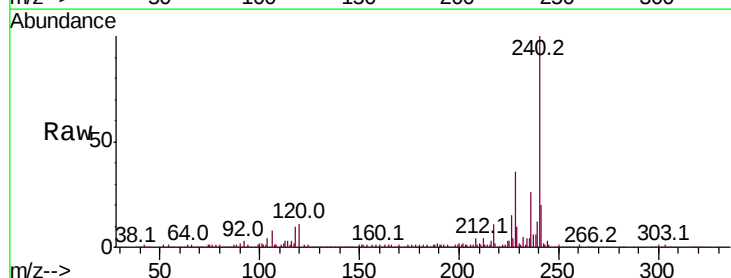
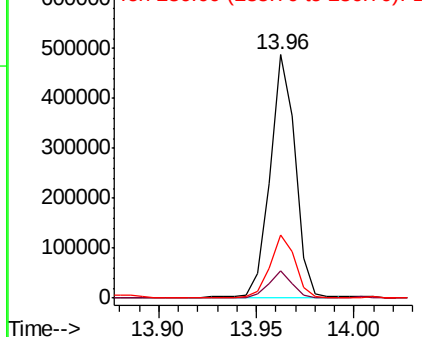
Delta R.T. -0.02 min

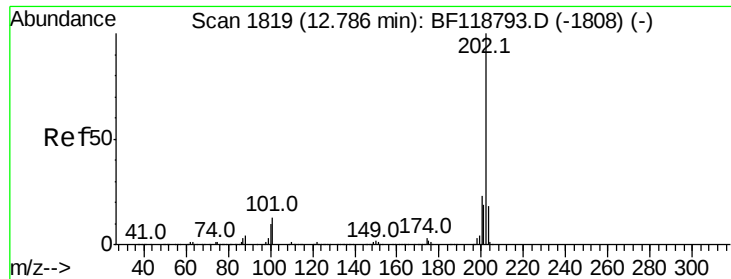
Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Tgt Ion:	240	Resp:	434189
Ion Ratio	Lower	Upper	
240	100		
120	11.0	9.4	14.0
236	26.2	21.0	31.6

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





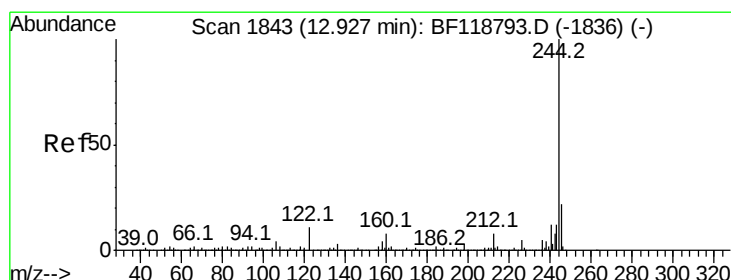
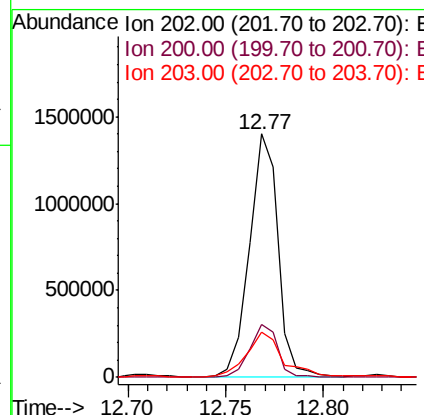
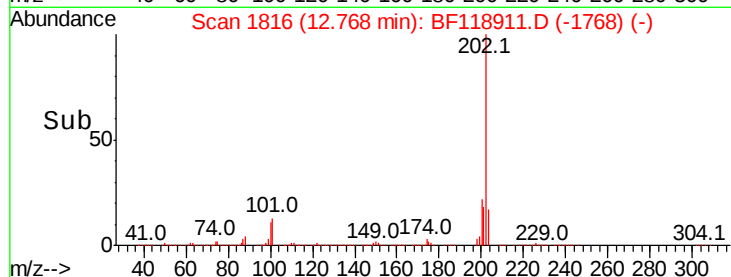
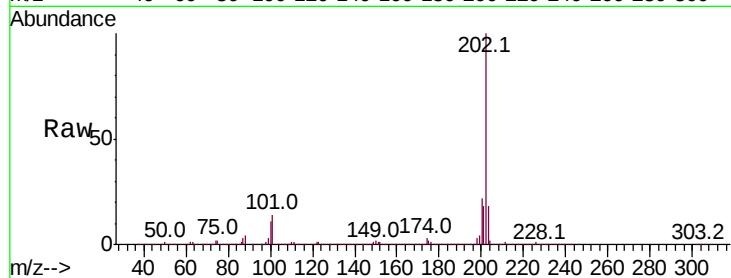
#78
Pvrene
Concen: 47.591 ng
RT: 12.77 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	18.2	27.2
203	18.4	14.8	22.2

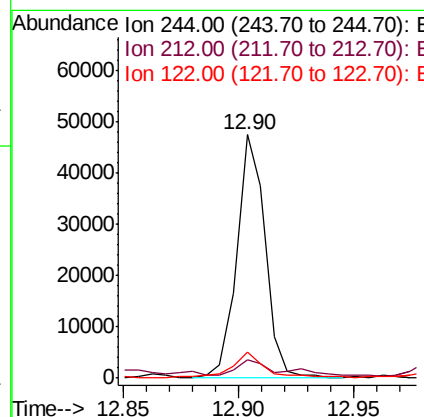
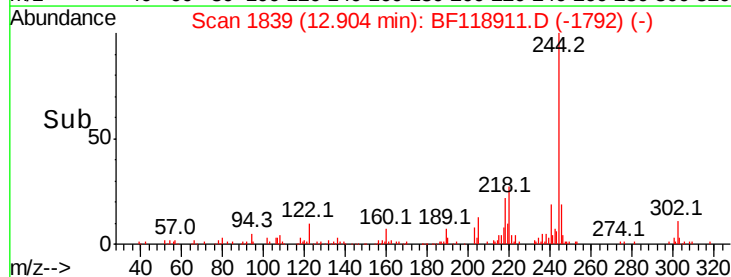
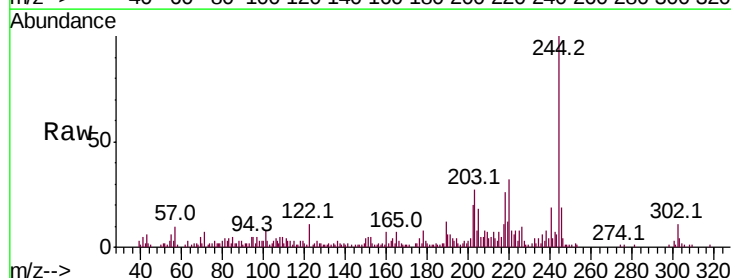
Manual Integrations
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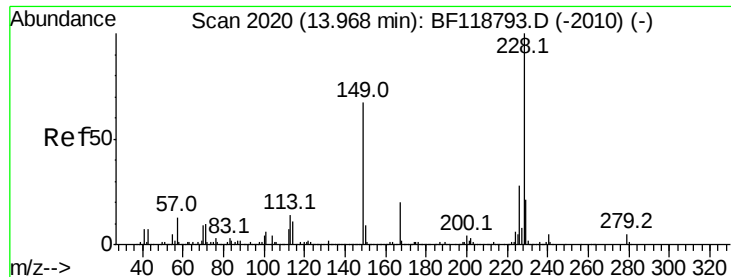
mohammad
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#79
Terphenyl-d14
Concen: 1.925 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.5	9.7
122	10.9	8.9	13.3





#81

Benzo(a)anthracene

Concen: 19.754 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Instrument :

BNA_F

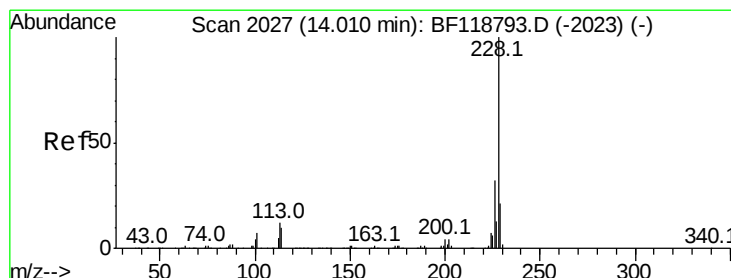
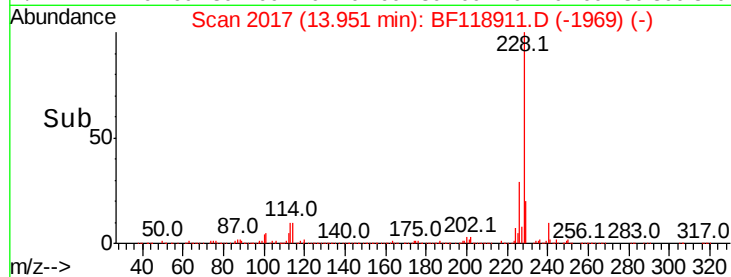
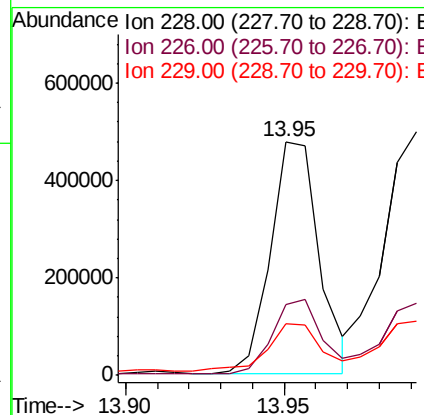
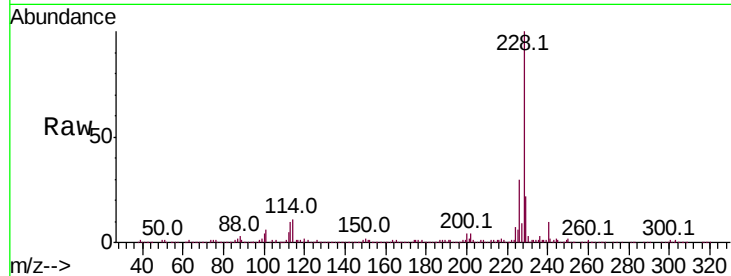
ClientSampleId :

TP6-EP1-1.5DL

Tot Ion:	228	Resp:	510374
Ion Ratio	Lower	Upper	
228	100		
226	30.4	22.7	34.1
229	22.0	16.6	25.0

Manual Integrations
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#83

Chrysene

Concen: 19.890 ng

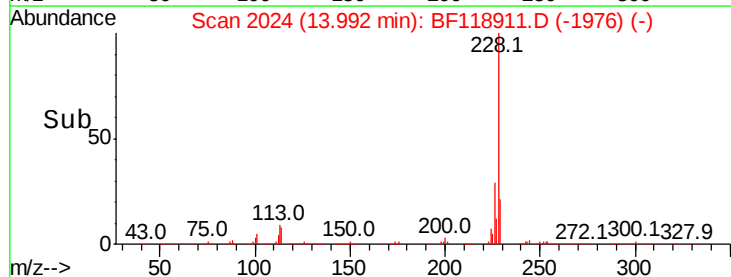
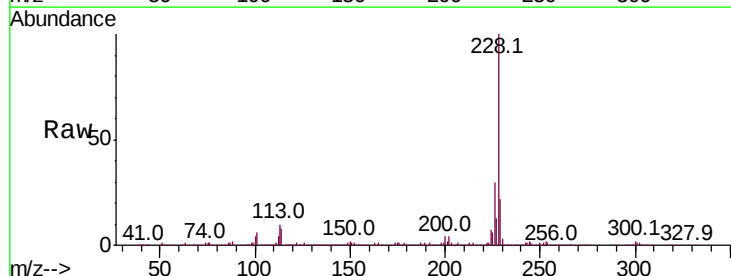
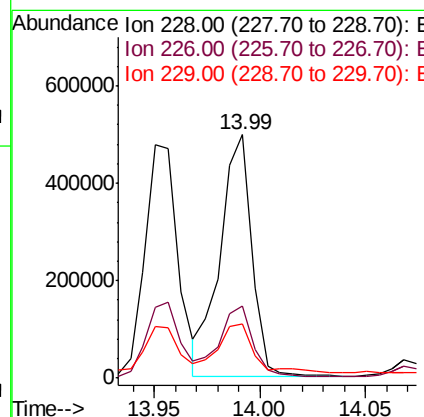
RT: 13.99 min Scan# 2024

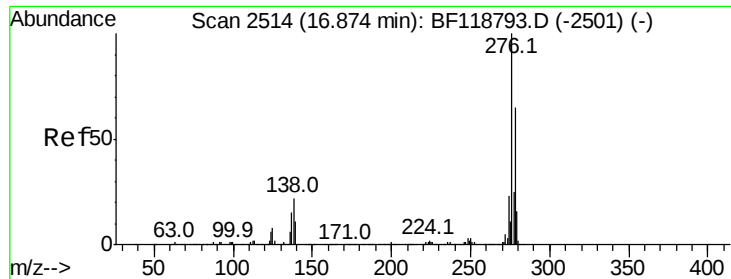
Delta R.T. -0.02 min

Lab File: BF118911.D

Acq: 12 Feb 2020 11:59

Tgt Ion:	228	Resp:	515770
Ion Ratio	Lower	Upper	
228	100		
226	29.8	25.4	38.0
229	22.2	16.9	25.3





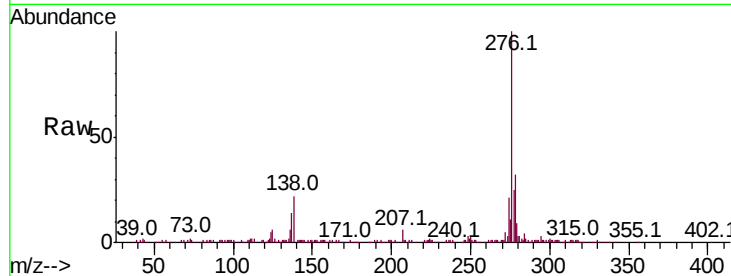
#86
Indeno(1,2,3-cd)pyrene
Concen: 8.198 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.6	18.3	27.5
277	25.1	20.2	30.4

Manual Integrations
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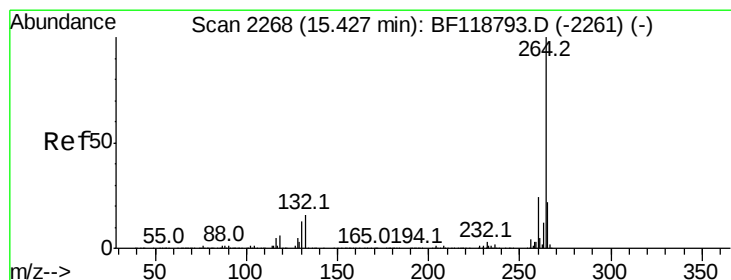
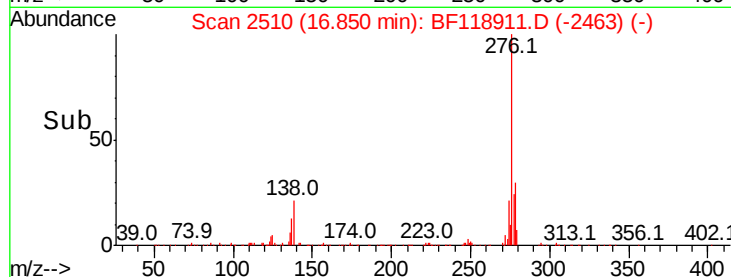
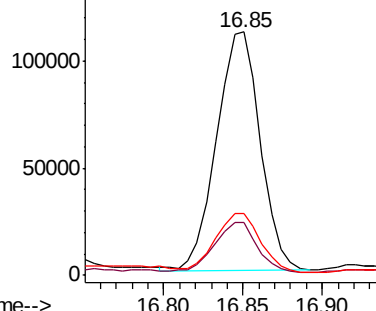


Abundance

Ion 276.00 (275.70 to 276.70): E

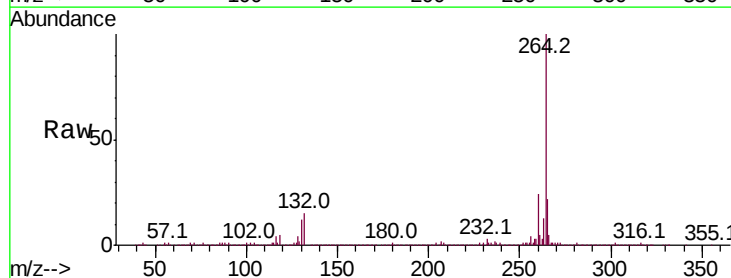
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	22.1	17.2	25.8

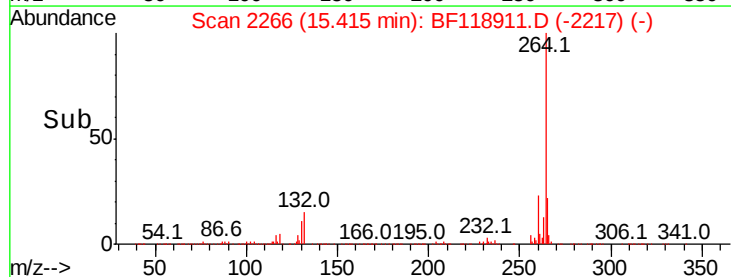
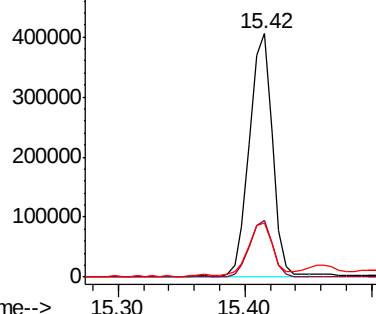


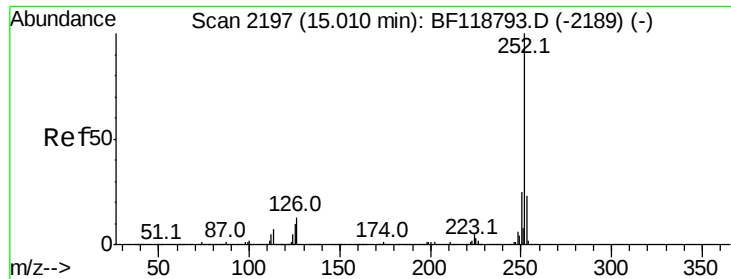
Abundance

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





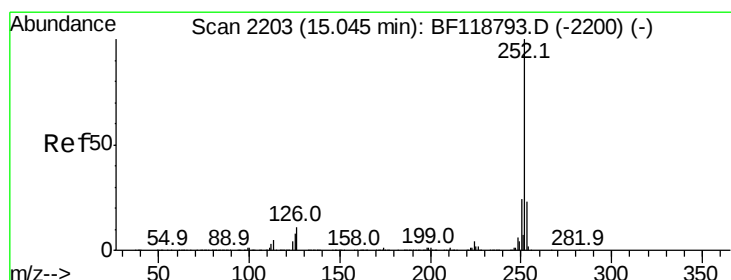
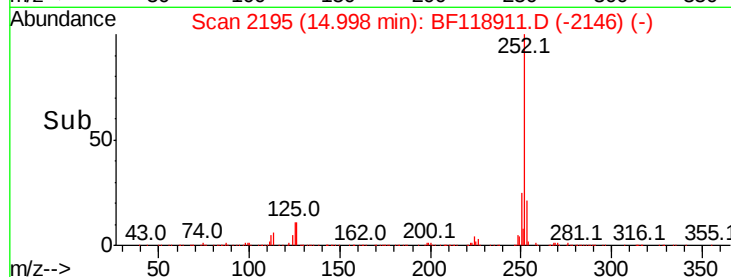
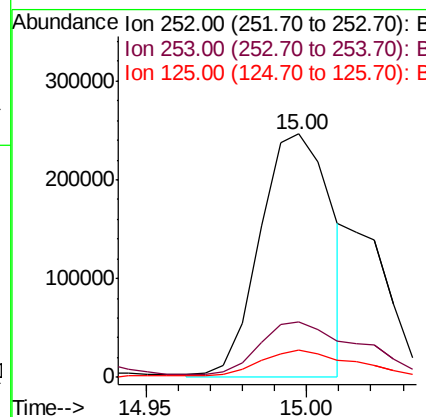
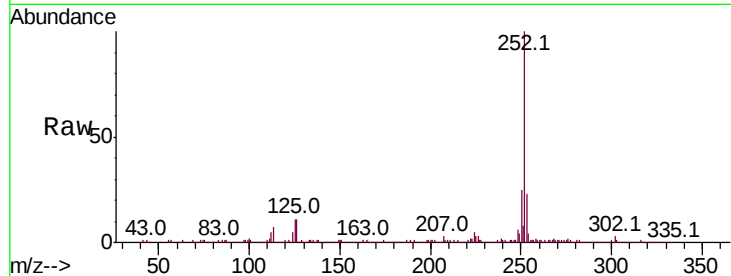
#88
Benzo(b)fluoranthene
Concen: 11.967 ng m
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	11.0	8.1	12.1

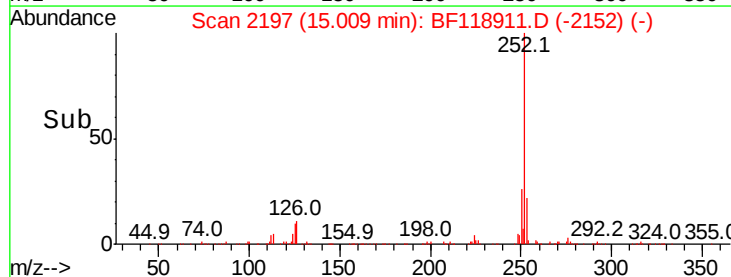
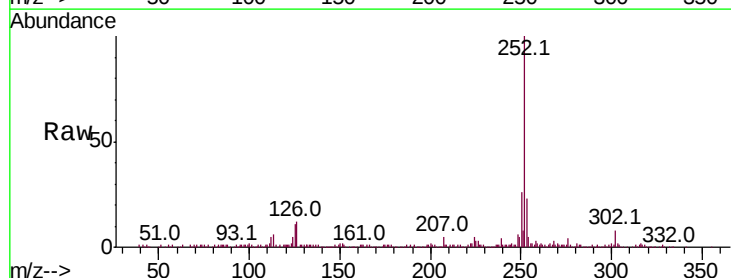
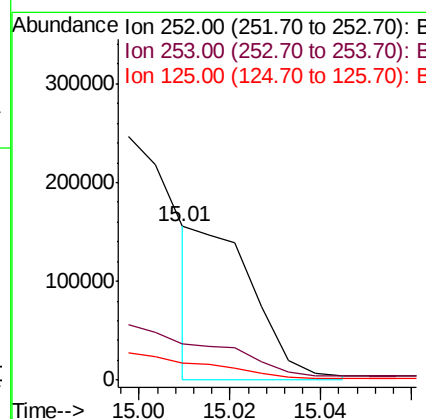
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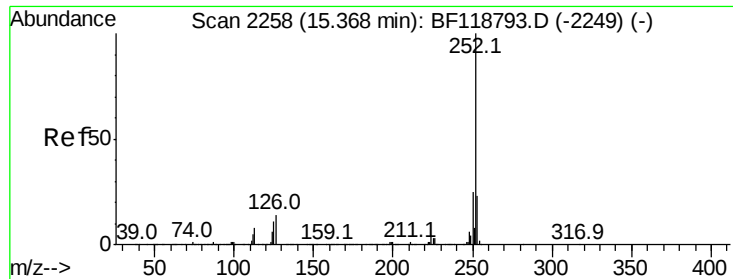
mohammad
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#89
Benzo(k)fluoranthene
Concen: 4.988 ng m
RT: 15.01 min Scan# 2197
Delta R.T. -0.04 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	10.7	7.0	10.6





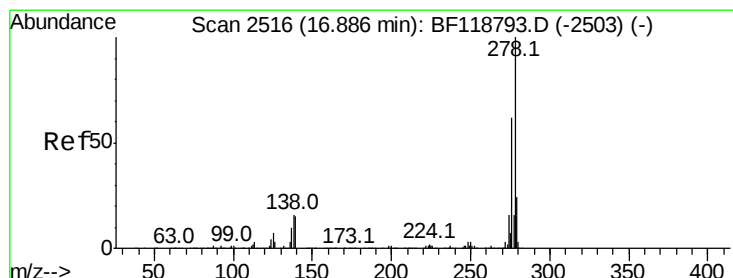
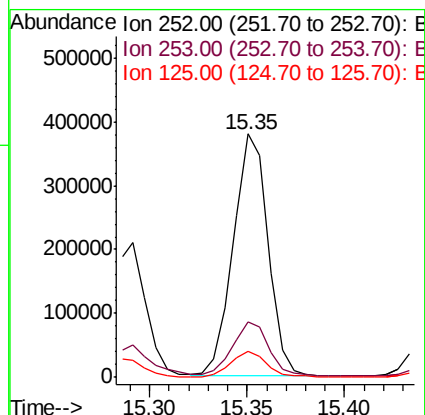
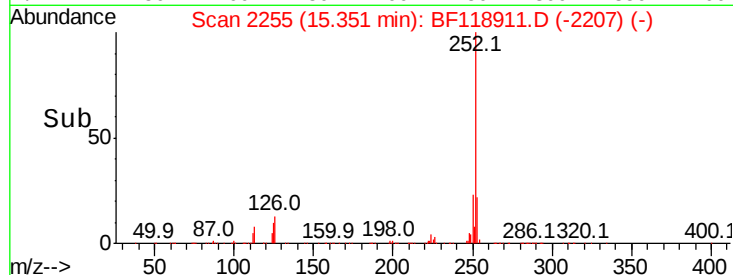
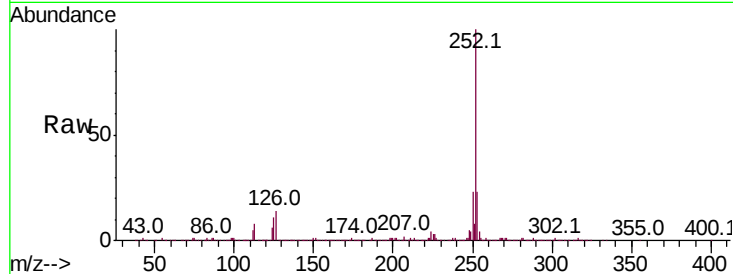
#90
Benzo(a)pyrene
Concen: 17.069 ng
RT: 15.35 min Scan# 2255
Delta R.T. -0.02 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Instrument :
BNA_F
ClientSampleId :
TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	10.6	8.7	13.1

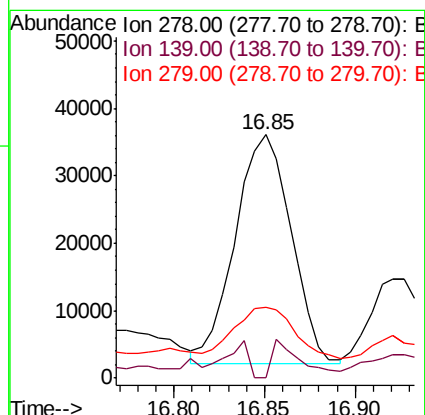
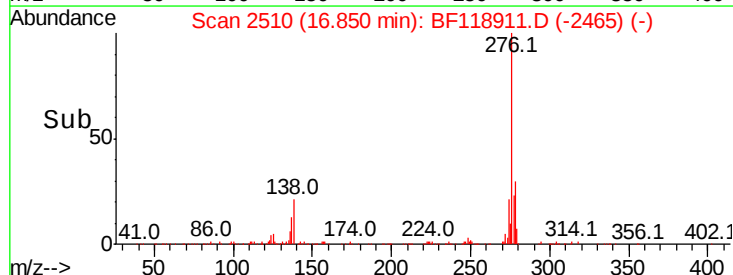
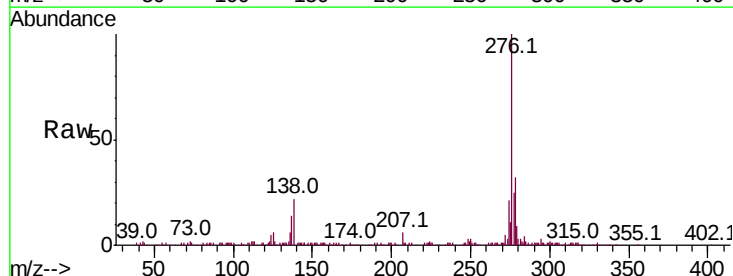
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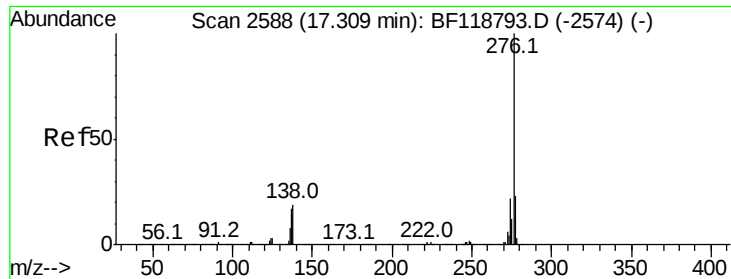
mohammad
2/13/2020 3:34:18 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.021 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.04 min
Lab File: BF118911.D
Acq: 12 Feb 2020 11:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.3	18.5#
279	28.9	19.1	28.7#





#92
 Benzo(a,h,i)perylene
 Concen: 10.336 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. -0.03 min
 Lab File: BF118911.D
 Acq: 12 Feb 2020 11:59

Instrument :
 BNA_F
 ClientSampleId :
 TP6-EP1-1.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.7	28.1
138	19.7	15.4	23.2

Manual Integrations
 APPROVED

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