

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
 Data File : BF119704.D
 Acq On : 2 Apr 2020 8:28
 Operator : MA/SJ
 Sample : L1759-16 5X
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 OR-03-033020

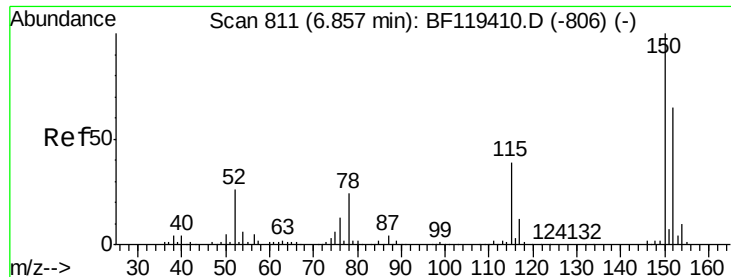
Manual Integrations
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Quant Time: Apr 02 09:05:03 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 11:59:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	235867	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	860063	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	396993	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	621286	20.00	ng	0.00
76) Chrysene-d12	13.99	240	398586	20.00	ng	-0.01
87) Perylene-d12	15.44	264	366489	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	318503	21.50	ng	0.00
7) Phenol-d6	6.43	99	397948	21.03	ng	-0.01
23) Nitrobenzene-d5	7.37	82	228494	14.44	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	77608	18.95	ng	-0.01
45) 2-Fluorobiphenyl	9.17	172	451625	16.85	ng	0.00
79) Terphenyl-d14	12.93	244	338270	16.63	ng	-0.01
Target Compounds						
31) Naphthalene	8.12	128	753831	17.032	ng	98
37) 2-Methylnaphthalene	8.81	142	188219	6.480	ng	98
38) 1-Methylnaphthalene	8.91	142	133312	4.849	ng	97
52) Acenaphthene	9.89	154	327628	13.214	ng	99
55) Dibenzofuran	10.06	168	343471	9.662	ng	97
58) Fluorene	10.40	166	466370	17.741	ng	99
71) Phenanthrene	11.37	178	2524372	78.359	ng	100
72) Anthracene	11.42	178	805874	24.613	ng	98
73) Carbazole	11.57	167	211473	6.525	ng	97
75) Fluoranthene	12.56	202	2412504	69.196	ng	99
78) Pyrene	12.79	202	1987548	60.760	ng	99
81) Benzo(a)anthracene	13.97	228	951266	36.701	ng	98
83) Chrysene	14.02	228	766617	28.659	ng	97
86) Indeno(1,2,3-cd)pyrene	16.89	276	313310	12.436	ng	96
88) Benzo(b)fluoranthene	15.02	252	908079m	37.093	ng	
89) Benzo(k)fluoranthene	15.04	252	282924m	12.137	ng	
90) Benzo(a)pyrene	15.39	252	619897	27.863	ng	99
91) Dibenzo(a,h)anthracene	16.90	278	77519	3.984	ng	# 90
92) Benzo(a,h,i)perylene	17.33	276	275169	14.075	ng	98

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



#1

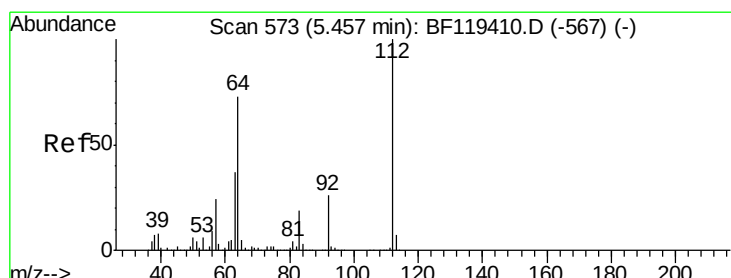
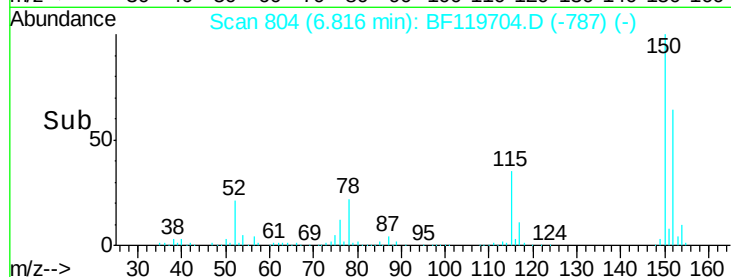
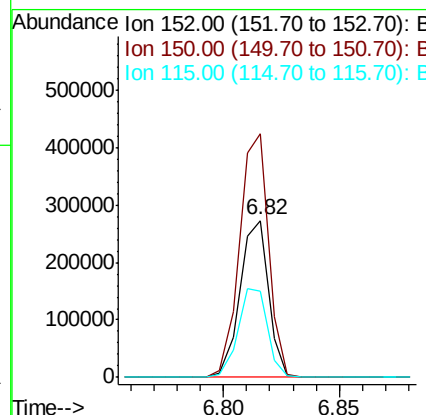
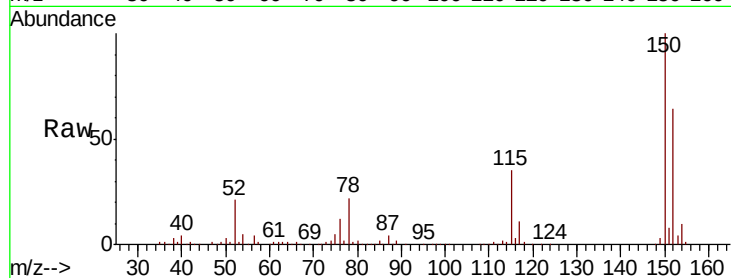
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.5	186.7
115	55.1	49.6	74.4

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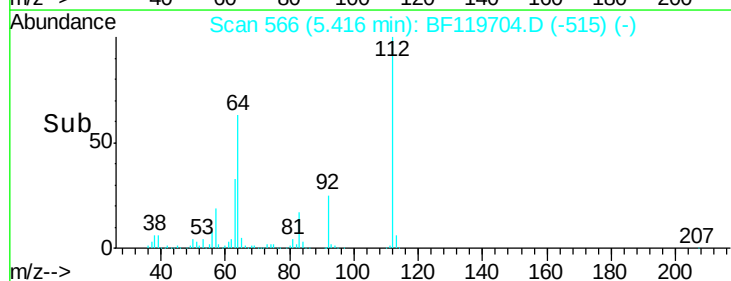
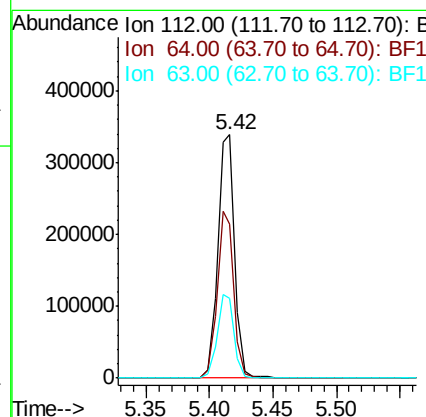
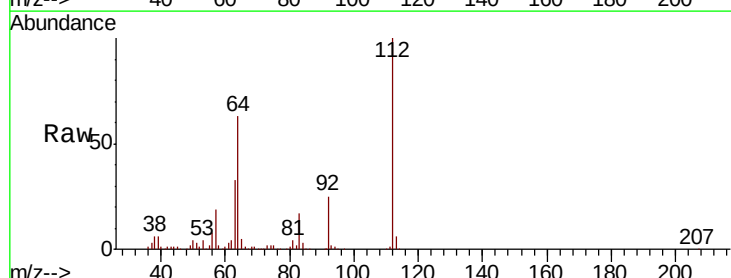
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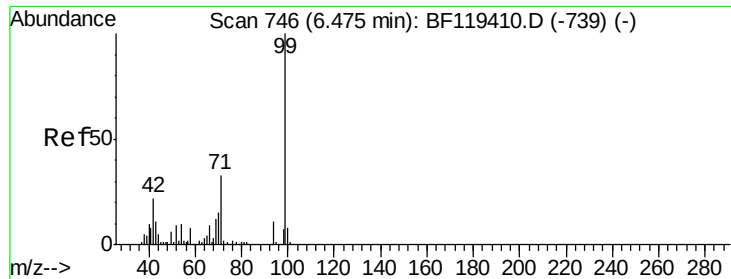


#5

2-Fluorophenol
Concen: 21.496 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	56.7	85.1
63	32.5	29.5	44.3





#7

Phenol-d6

Concen: 21.025 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF119704.D

Acq: 2 Apr 2020 8:28

Instrument :

BNA_F

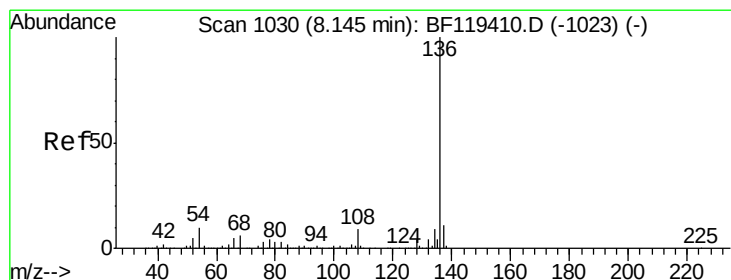
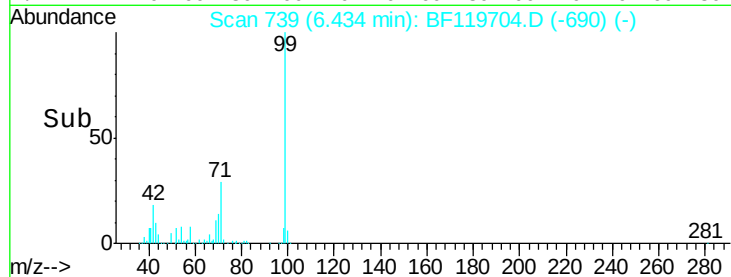
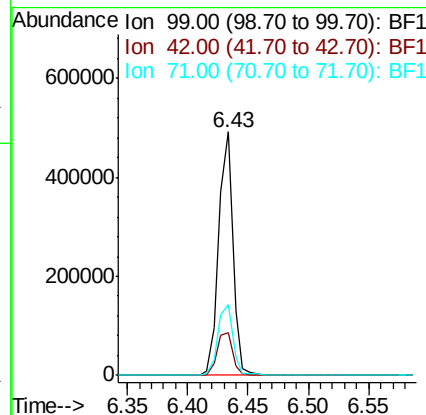
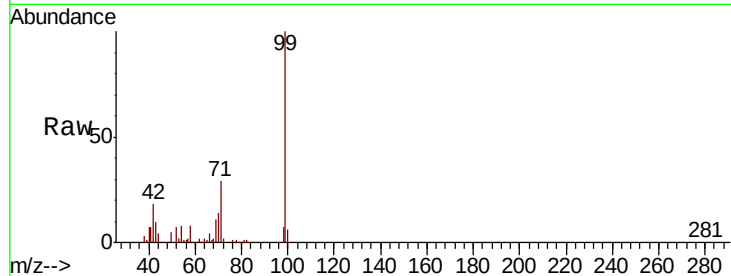
ClientSampleId :

OR-03-033020

Tot Ion:	99	Resp:	397948
Ion	Ratio	Lower	Upper
99	100		
42	17.7	16.6	24.8
71	28.9	26.4	39.6

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#21

Naphthalene-d8

Concen: 20.000 ng

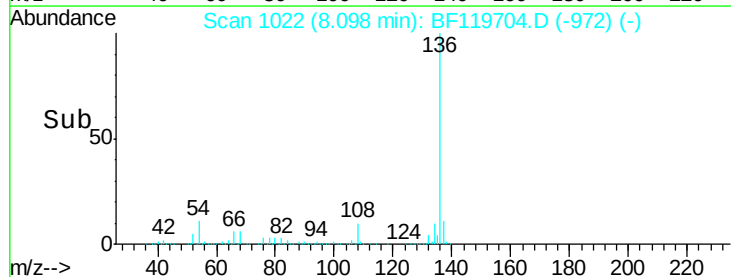
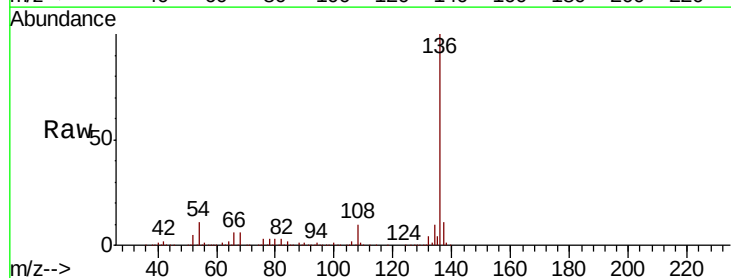
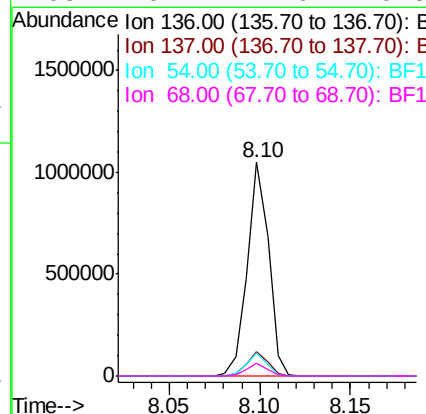
RT: 8.10 min Scan# 1022

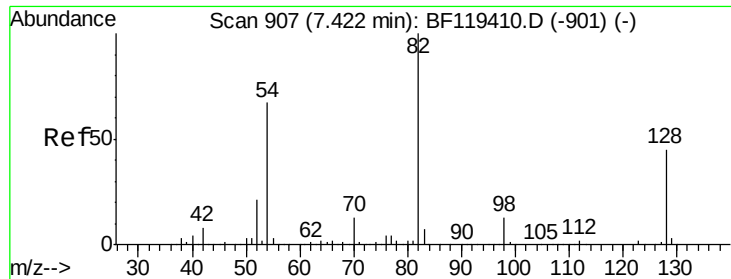
Delta R.T. -0.01 min

Lab File: BF119704.D

Acq: 2 Apr 2020 8:28

Tgt Ion:	136	Resp:	860063
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	10.8	9.1	13.7
68	6.2	4.6	6.8





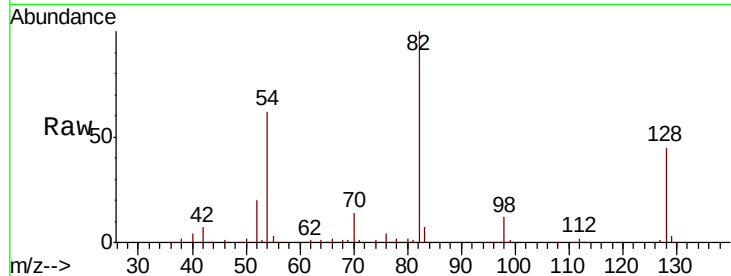
#23
Nitrobenzene-d5
Concen: 14.439 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

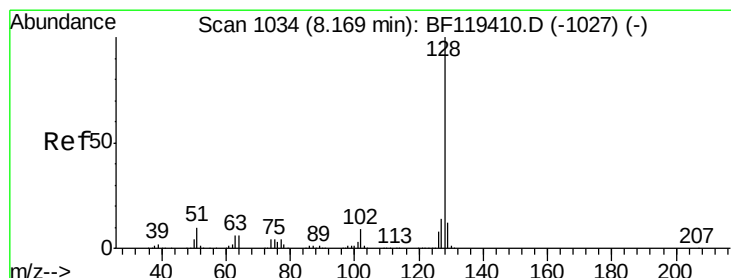
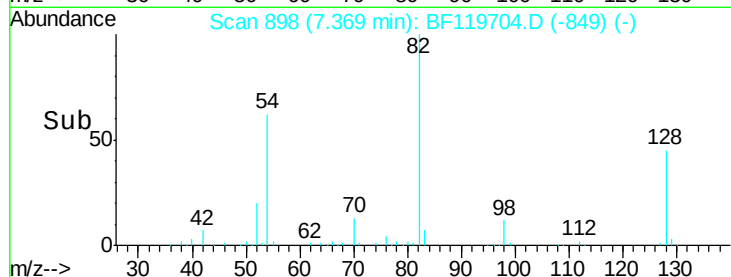
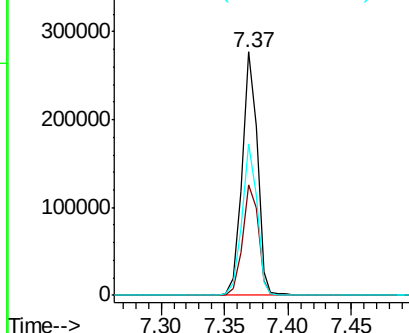
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.3	54.5
54	62.4	50.6	75.8

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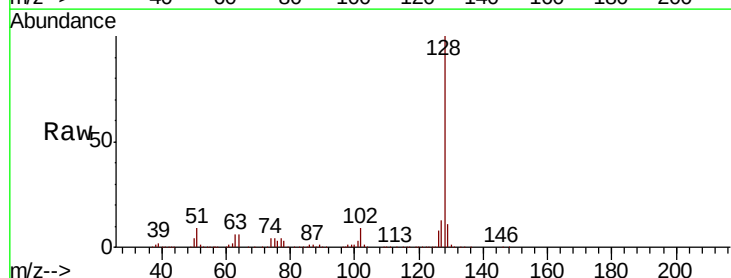


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

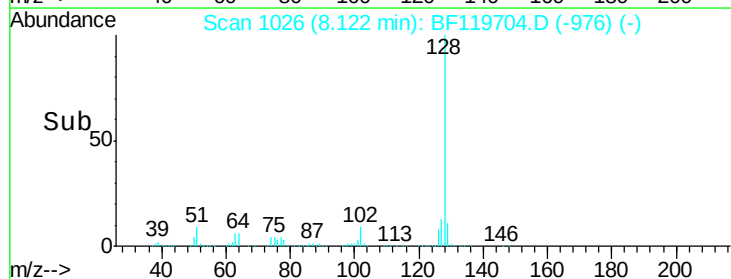
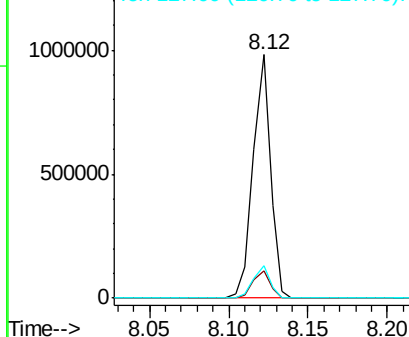


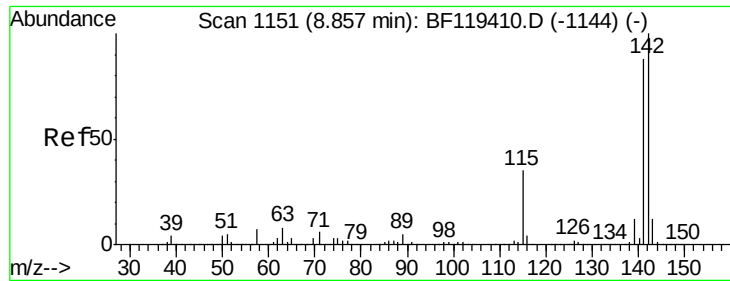
#31
Naphthalene
Concen: 17.032 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.5	14.3
127	13.4	11.3	16.9



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





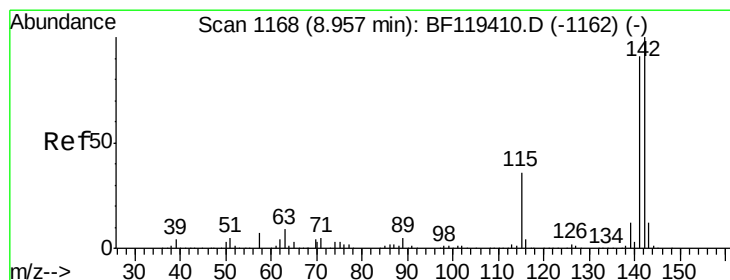
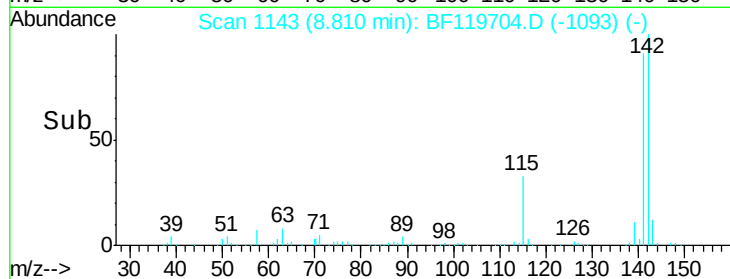
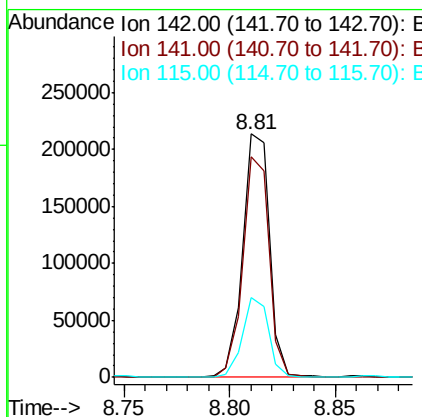
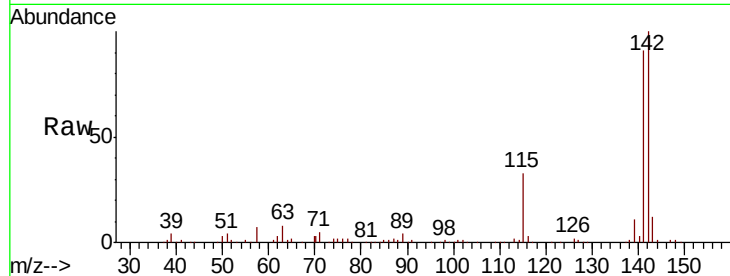
#37
2-Methylnaphthalene
Concen: 6.480 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.7	107.5
115	32.6	27.9	41.9

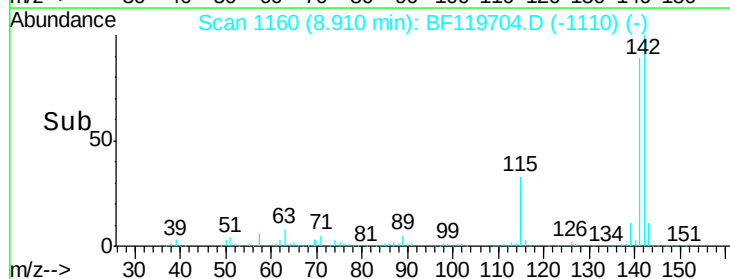
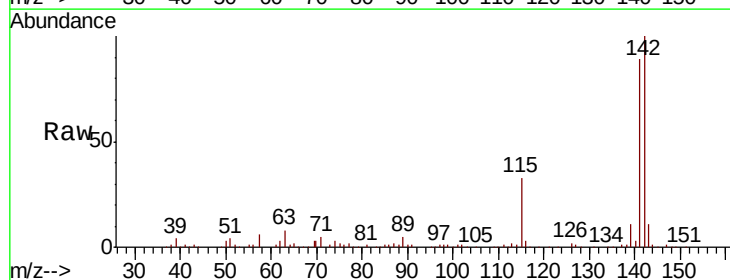
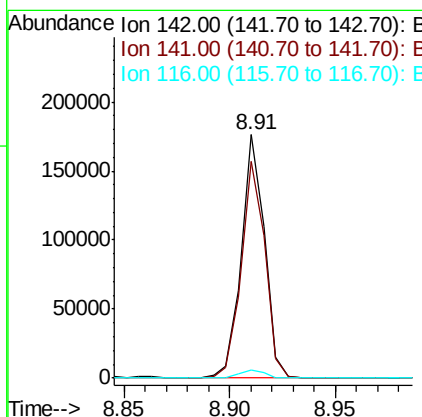
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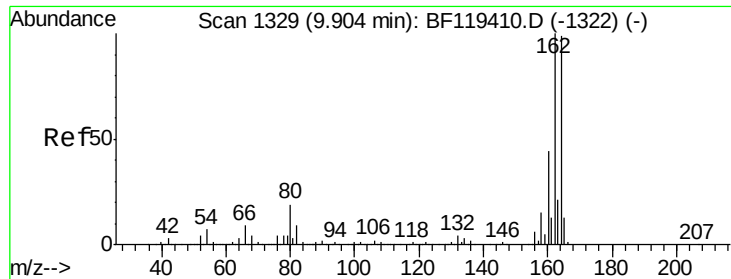
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#38
1-Methylnaphthalene
Concen: 4.849 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.0	73.7	110.5
116	3.4	3.0	4.6





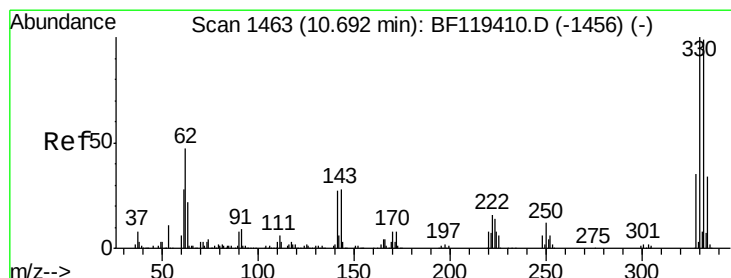
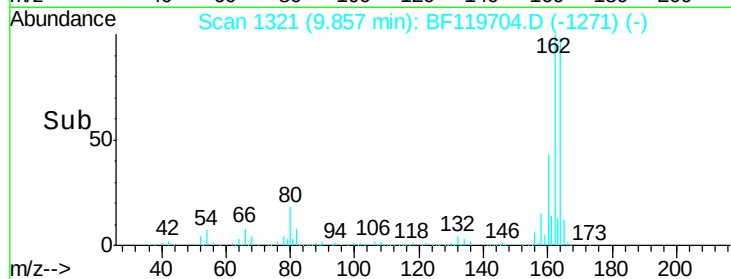
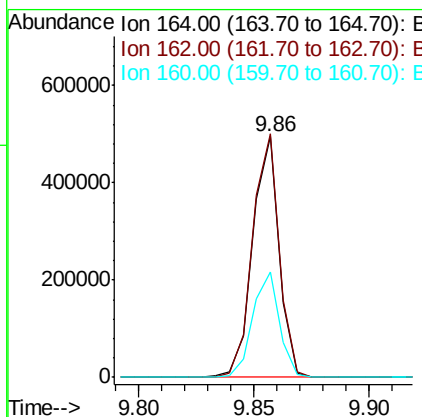
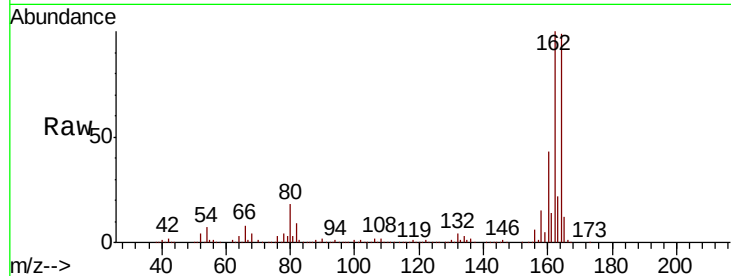
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.1	80.6	121.0	
160	43.8	35.7	53.5	

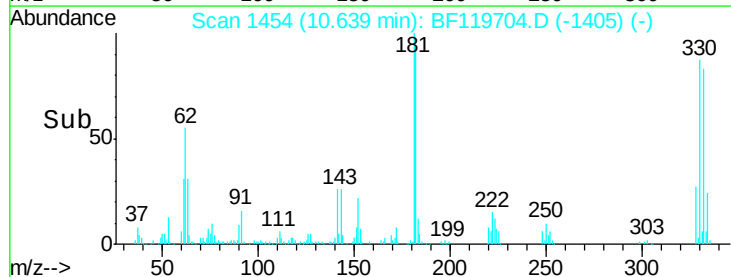
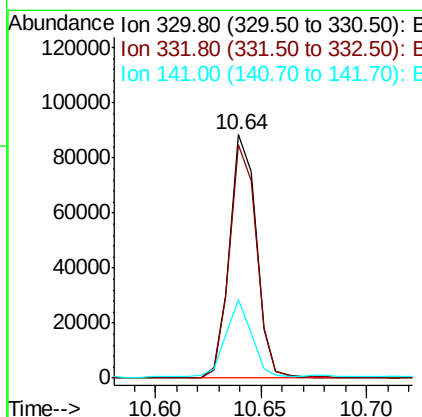
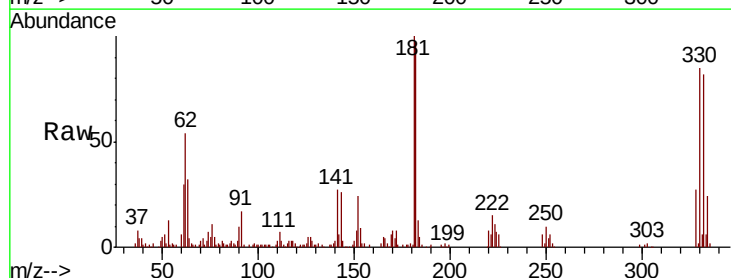
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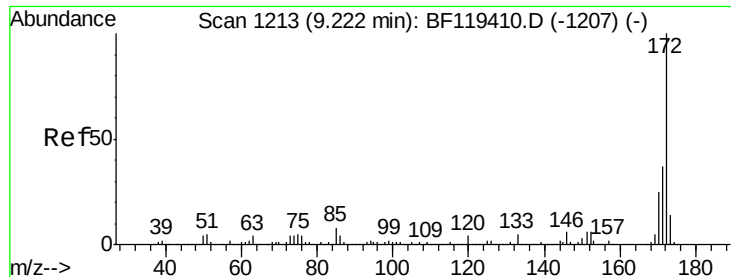
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#42
2,4,6-Tribromophenol
Concen: 18.949 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF119704.D
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Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.3	75.7	113.5	
141	30.9	25.4	38.0	





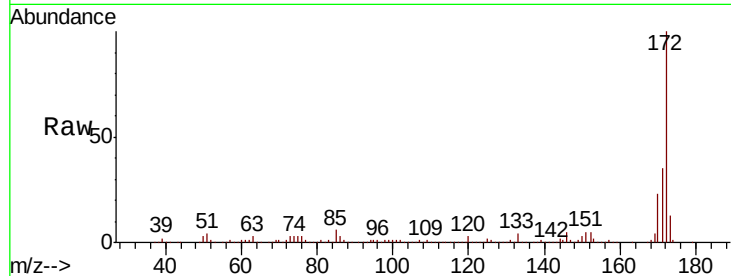
#45
2-Fluorobiphenyl
Concen: 16.853 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	23.2	20.2	30.2

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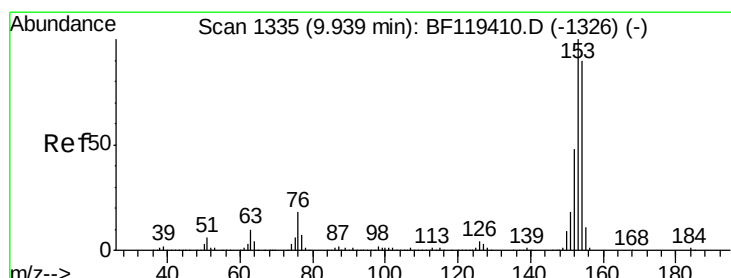
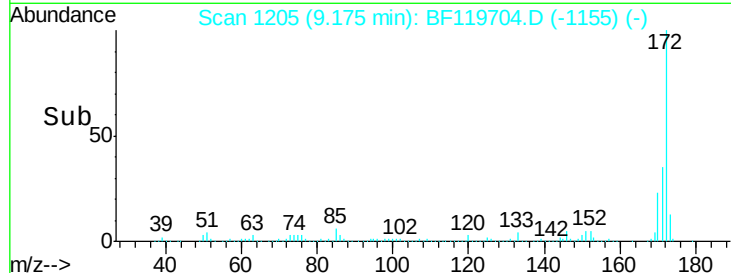
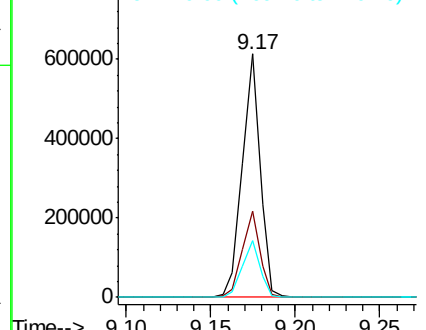


Abundance

Ion 172.00 (171.70 to 172.70): E

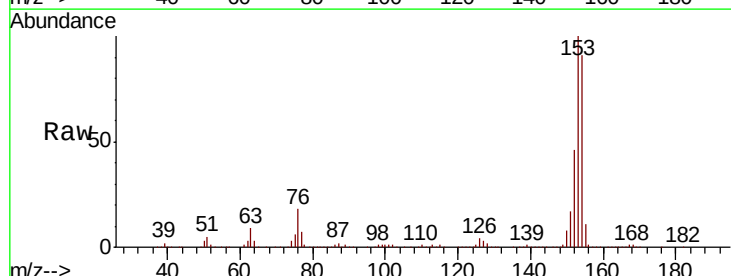
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#52
Acenaphthene
Concen: 13.214 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.9	88.1	132.1
152	50.9	43.0	64.4

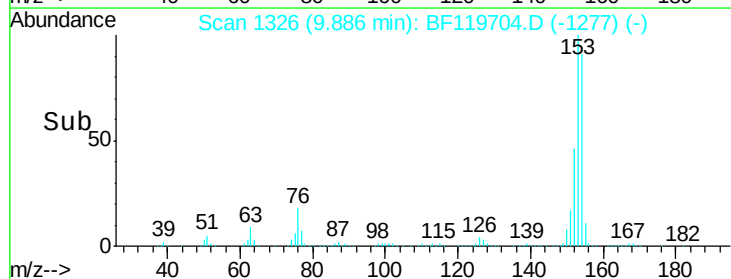
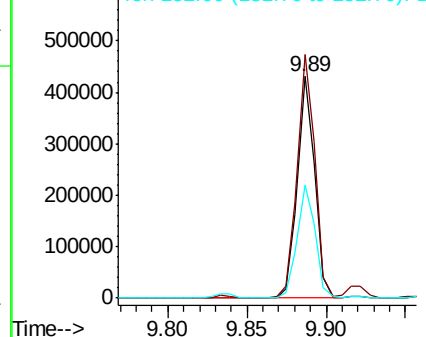


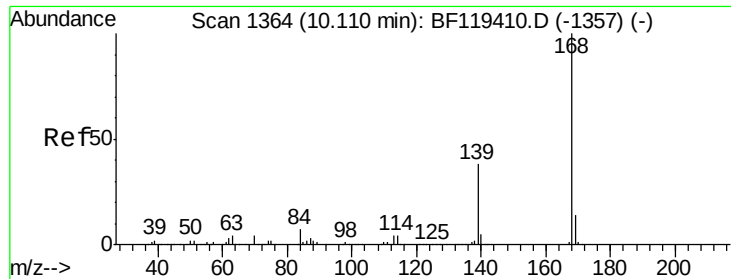
Abundance

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





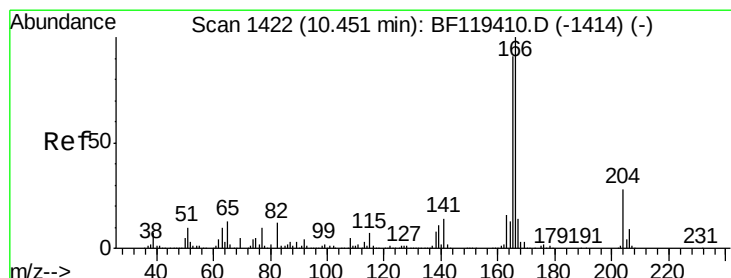
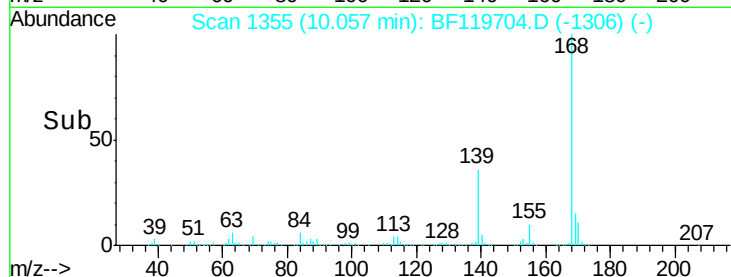
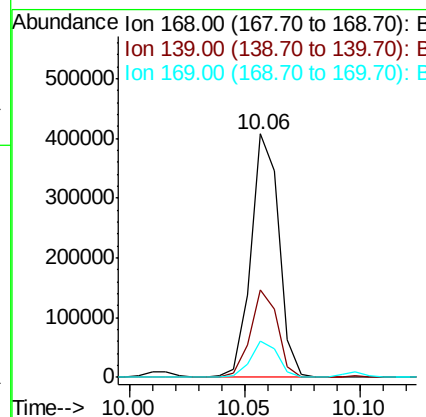
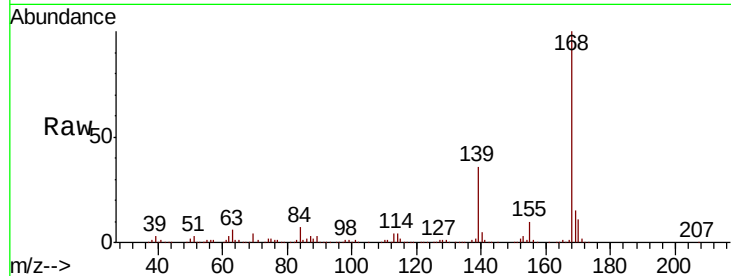
#55
Dibenzofuran
Concen: 9.662 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.1	30.1	45.1
169	14.9	11.0	16.6

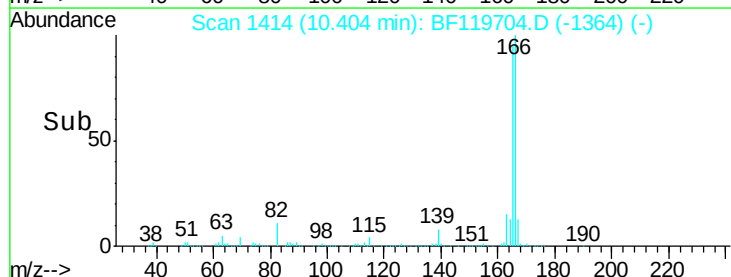
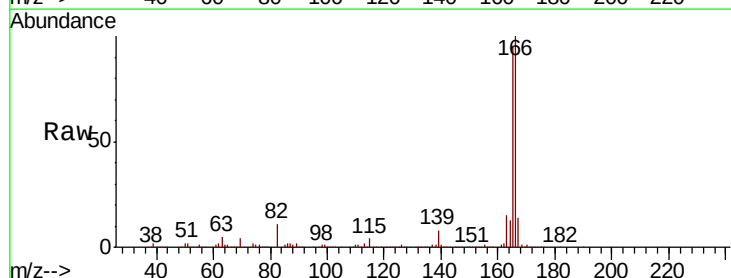
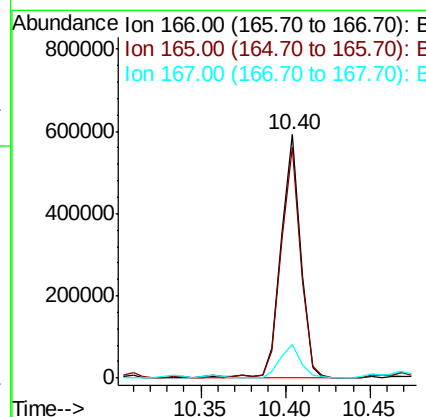
Manual Integrations
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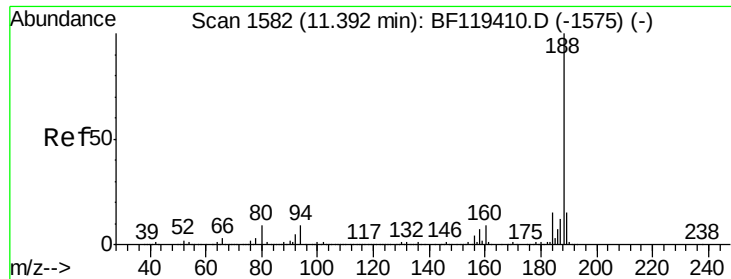
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#58
Fluorene
Concen: 17.741 ng
RT: 10.40 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.9	75.4	113.2
167	13.6	11.2	16.8





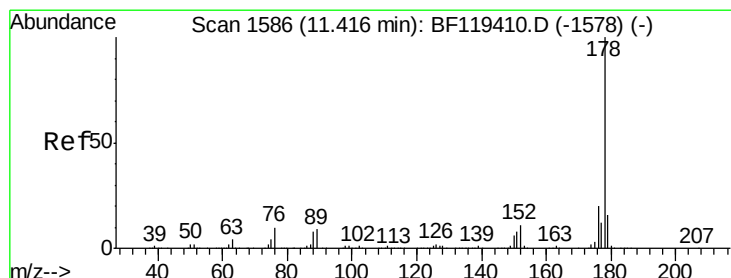
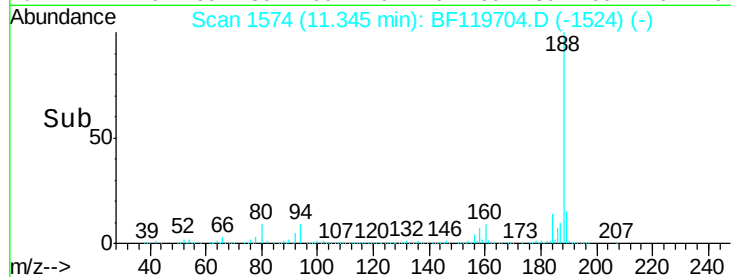
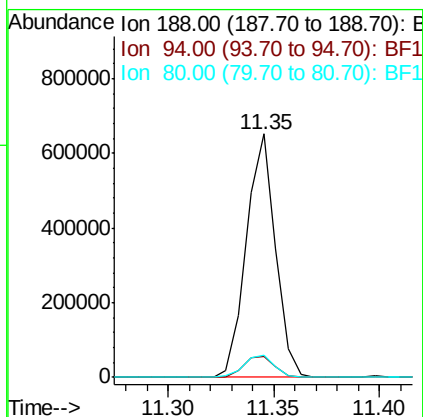
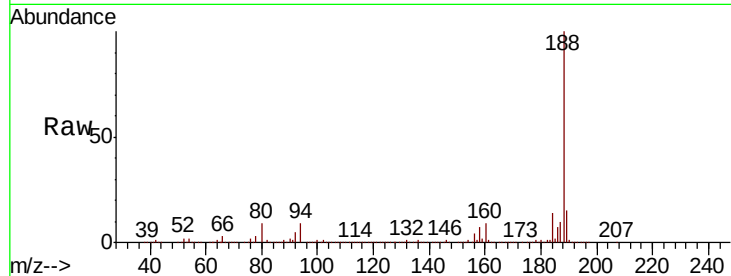
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Resp	Lower	Upper
188	100	621286		
94	8.8		7.5	11.3
80	9.3		9.0	13.4

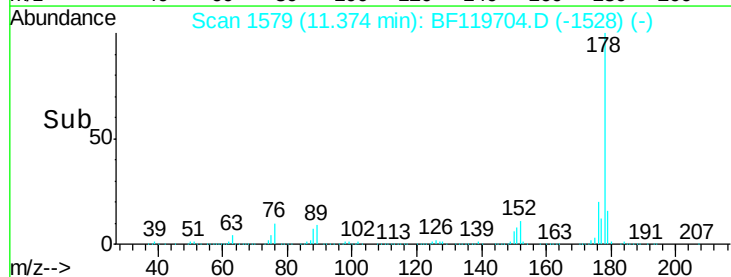
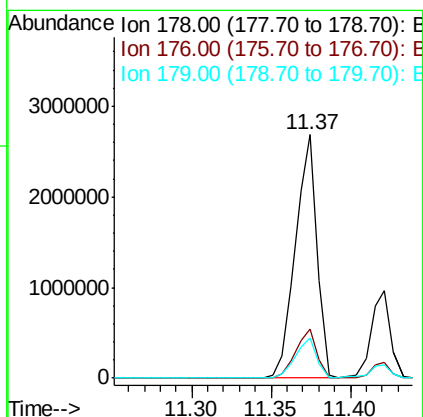
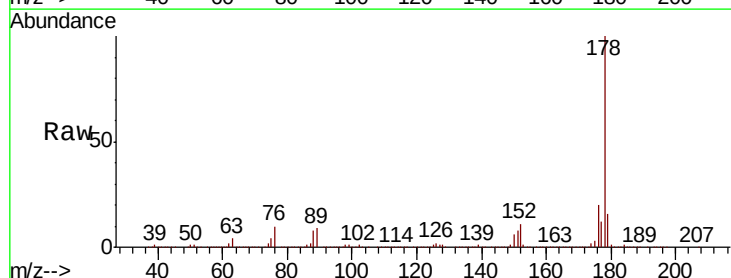
Manual Integrations
APPROVED

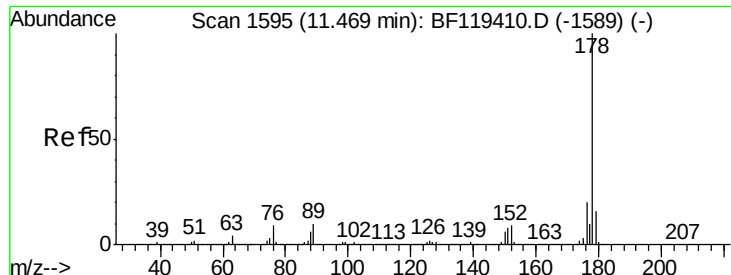
mohammad
4/3/2020 11:15:16 PM



#71
Phenanthrene
Concen: 78.359 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2524372		
176	20.3		16.2	24.4
179	16.3		13.2	19.8





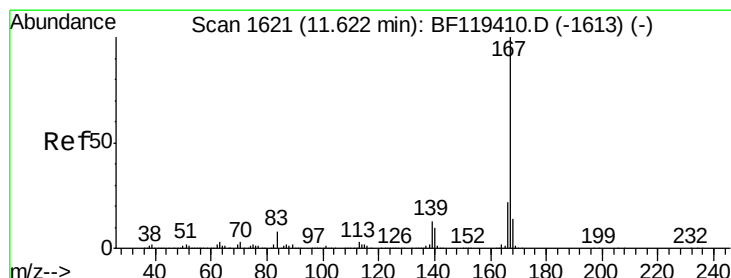
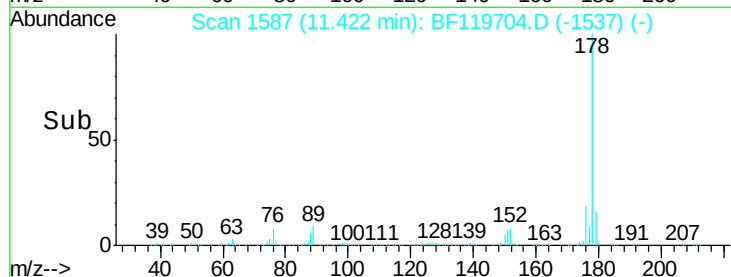
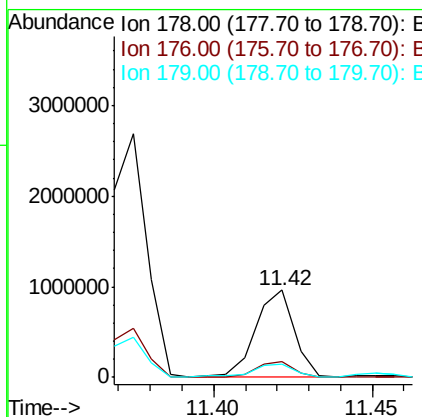
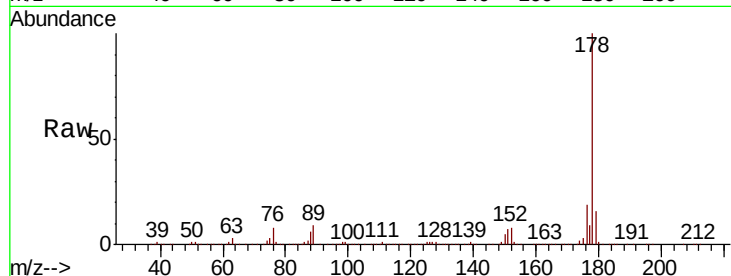
#72
 Anthracene
 Concen: 24.613 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF119704.D
 Acq: 2 Apr 2020 8:28

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-033020

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.1	24.1
179	15.6	13.0	19.4

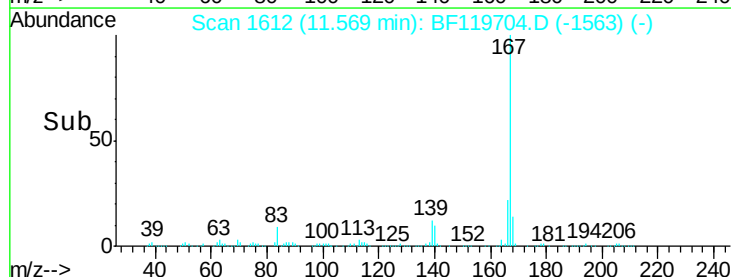
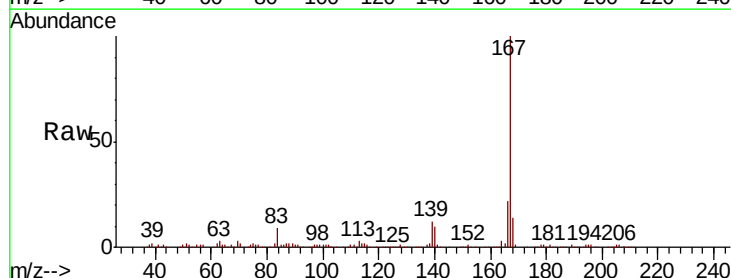
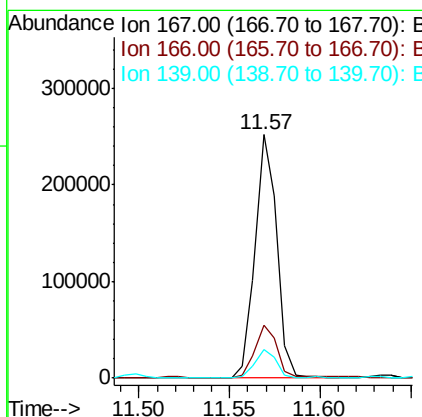
Manual Integrations
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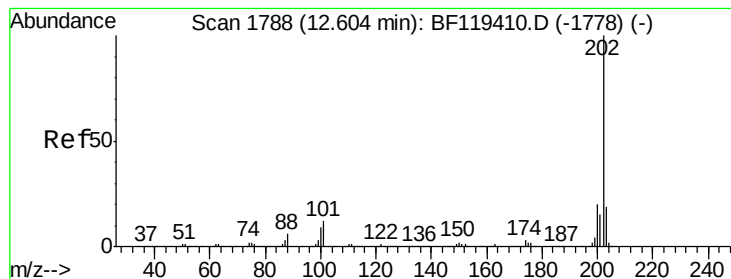
mohammad
 4/3/2020 11:15:16 PM



#73
 Carbazole
 Concen: 6.525 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF119704.D
 Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.2	27.4
139	11.9	10.7	16.1





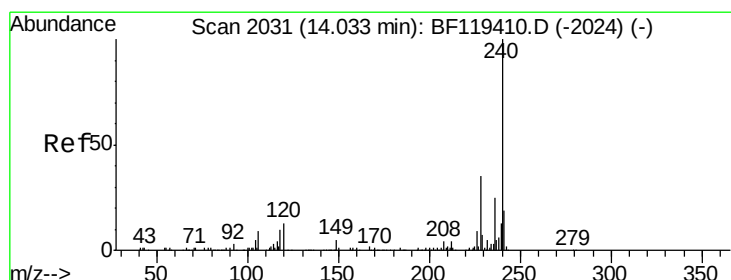
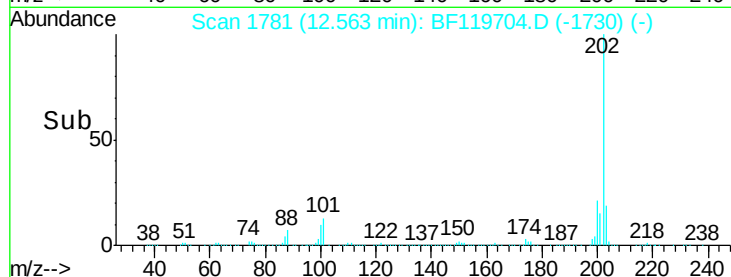
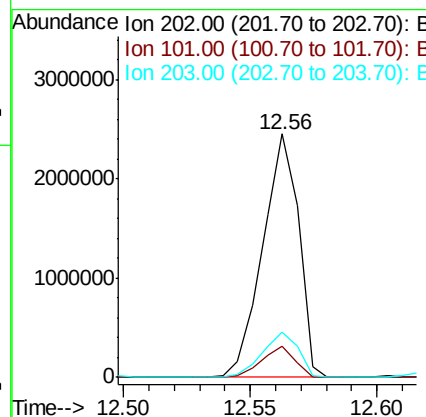
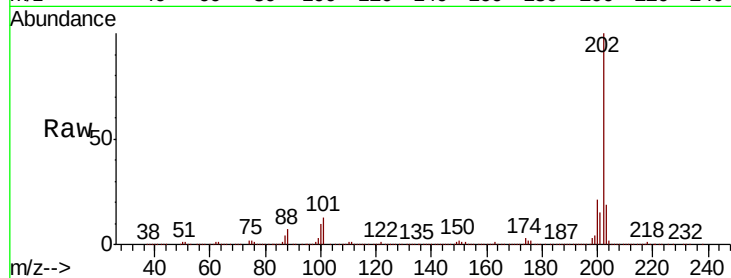
#75
 Fluoranthene
 Concen: 69.196 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. 0.00 min
 Lab File: BF119704.D
 Acq: 2 Apr 2020 8:28

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-033020

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	32.2
203	18.7	0.0	38.8

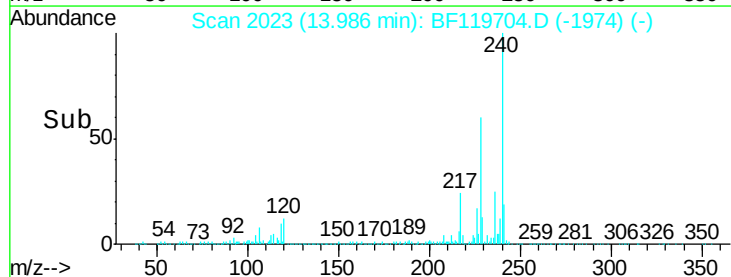
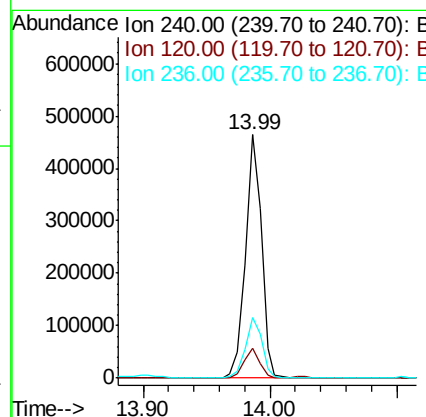
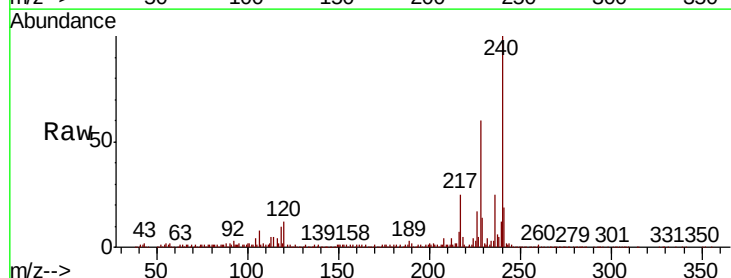
Manual Integrations
 APPROVED

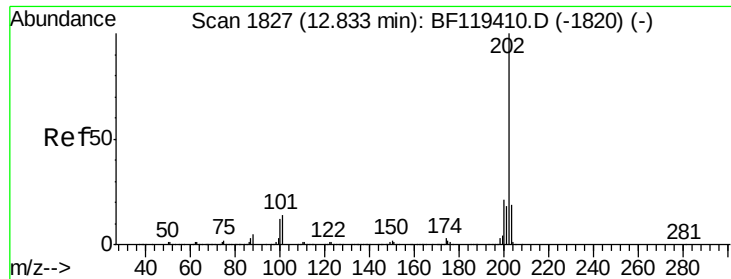
mohammad
 4/3/2020 11:15:16 PM



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: BF119704.D
 Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.1	10.6	15.8
236	24.9	20.2	30.2





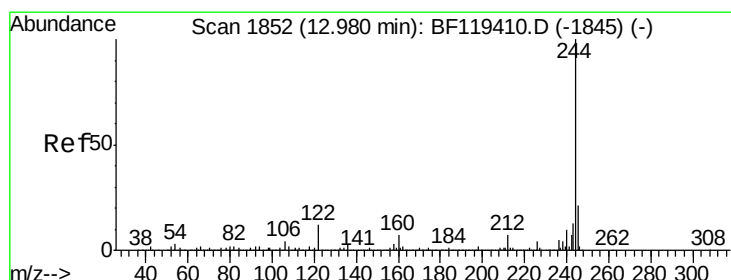
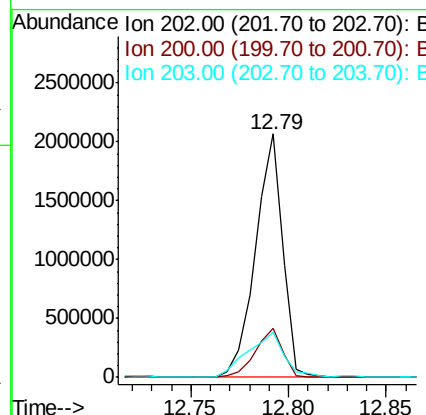
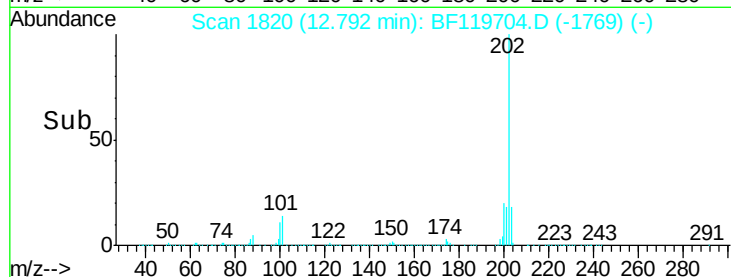
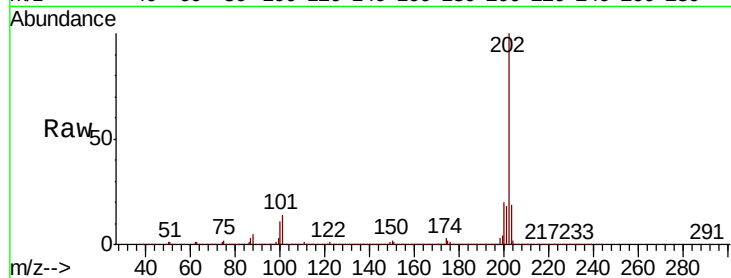
#78
Pvrene
Concen: 60.760 ng
RT: 12.79 min Scan# 1820
Delta R.T. 0.00 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.8	25.2
203	18.5	15.1	22.7

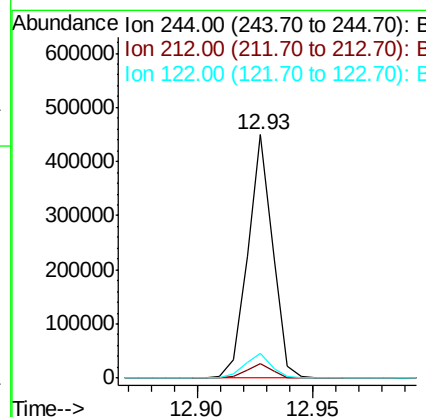
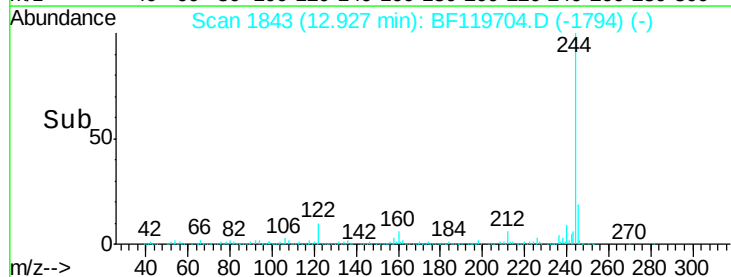
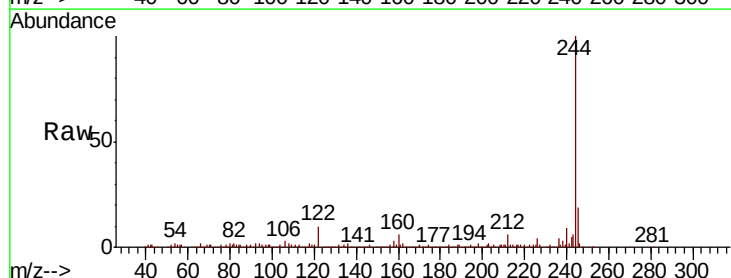
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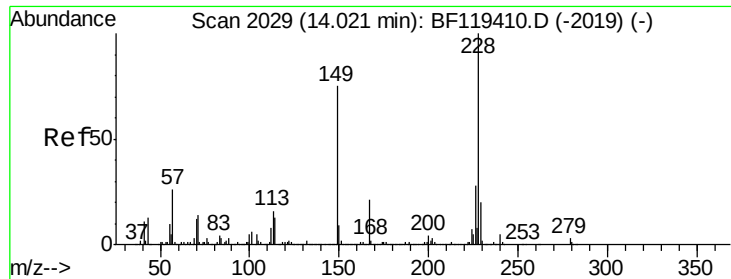
mohammad
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#79
Terphenyl-d14
Concen: 16.627 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.9	5.8	8.8
122	10.1	10.3	15.5#





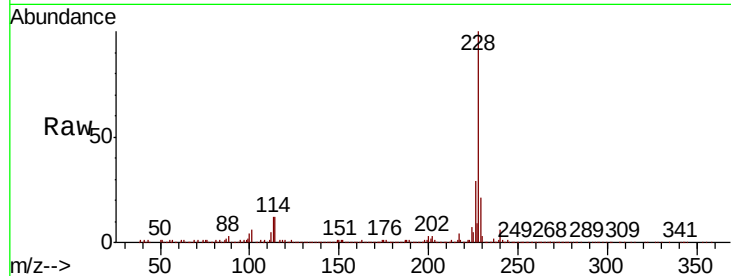
#81
Benzo(a)anthracene
Concen: 36.701 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.8	32.8
229	21.4	16.2	24.4

Manual Integrations
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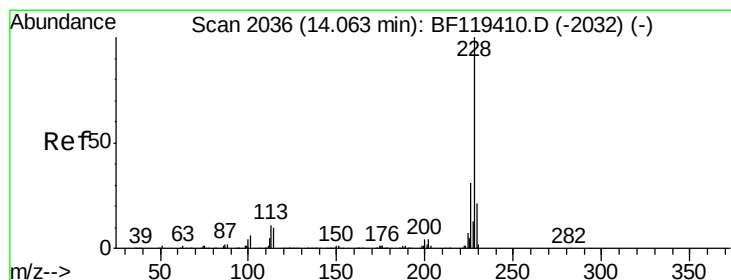
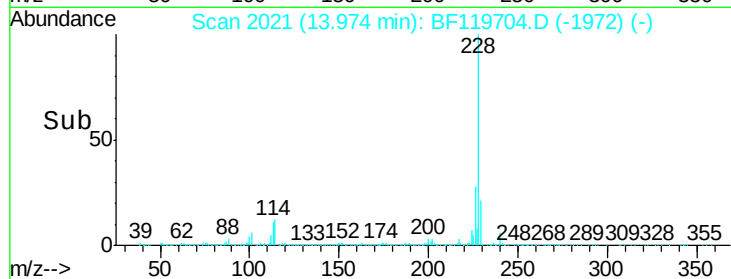
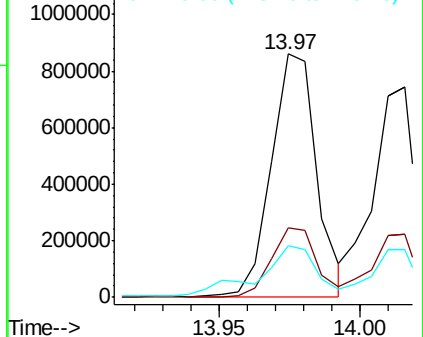


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 28.659 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

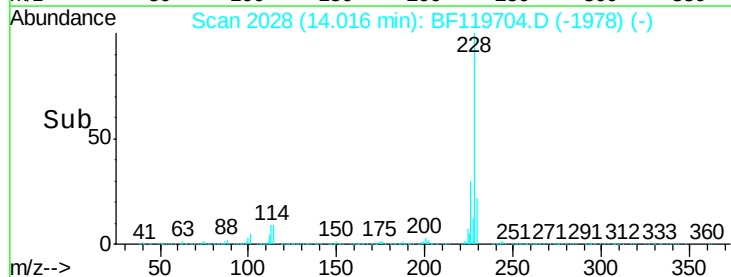
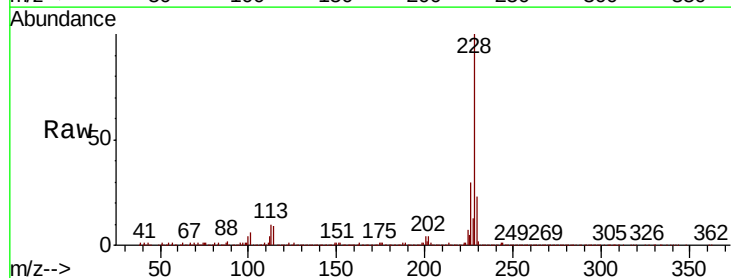
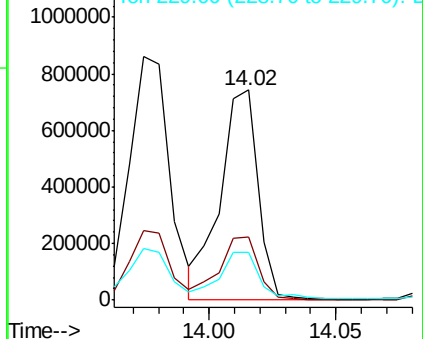
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0
229	22.6	16.6	24.8

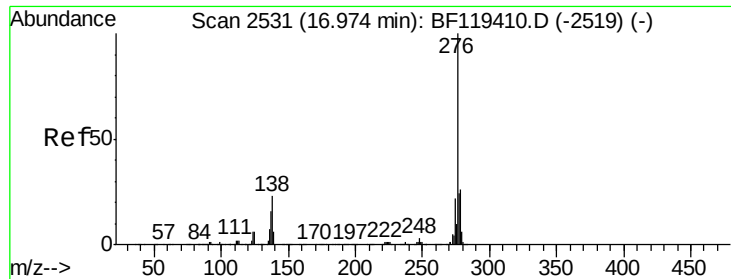
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





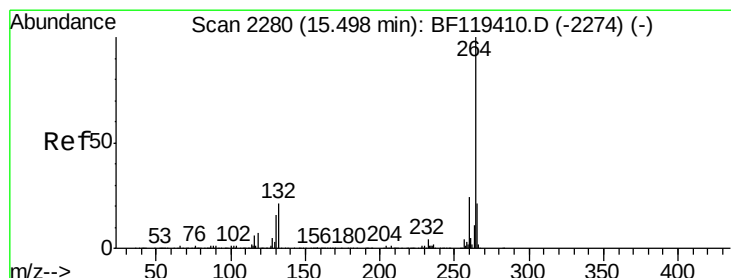
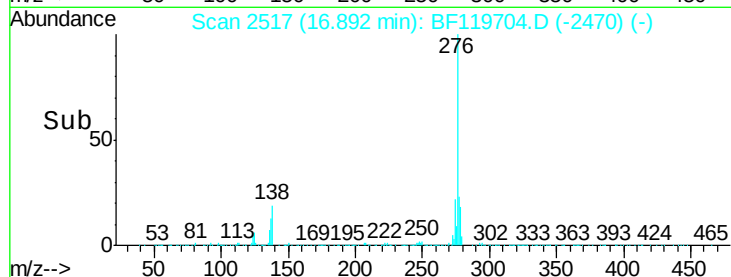
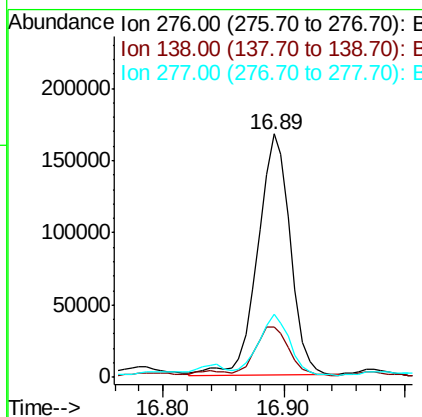
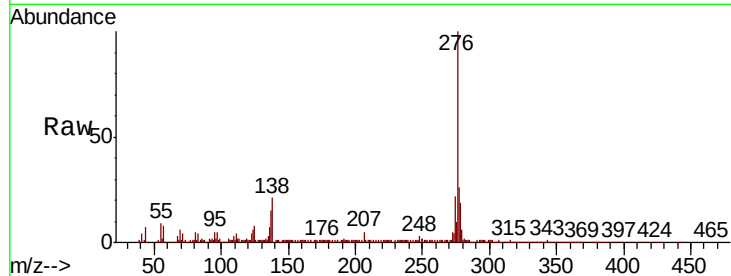
#86
Indeno(1,2,3-cd)pyrene
Concen: 12.436 ng
RT: 16.89 min Scan# 2517
Delta R.T. -0.02 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.6	29.4
277	24.5	20.0	30.0

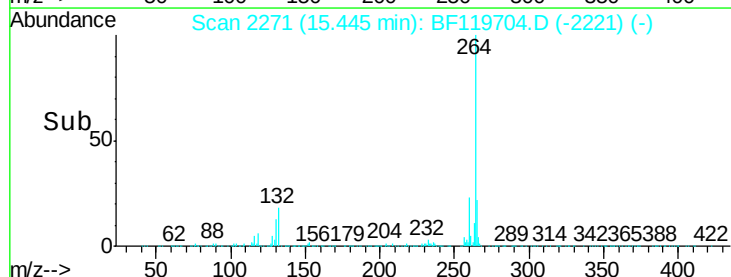
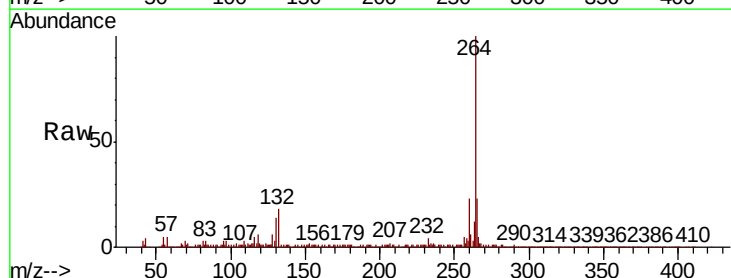
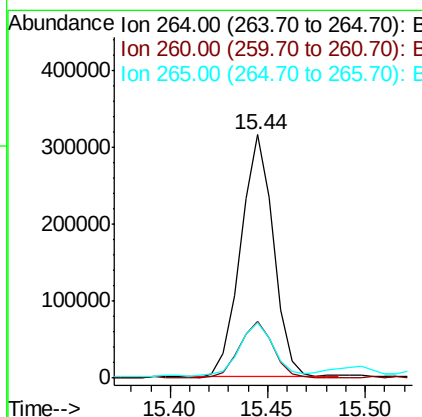
Manual Integrations
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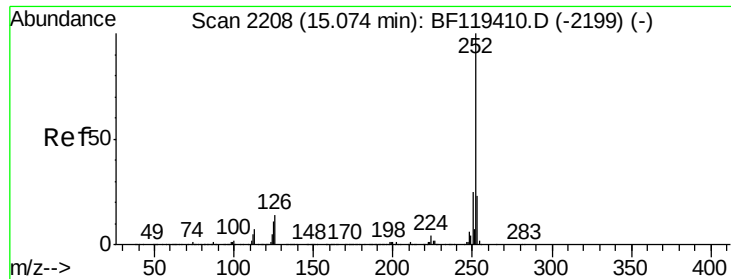
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	22.9	17.7	26.5





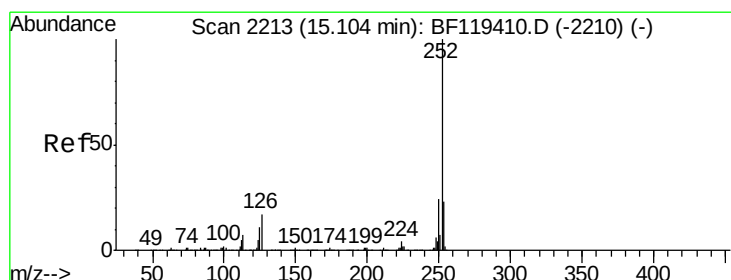
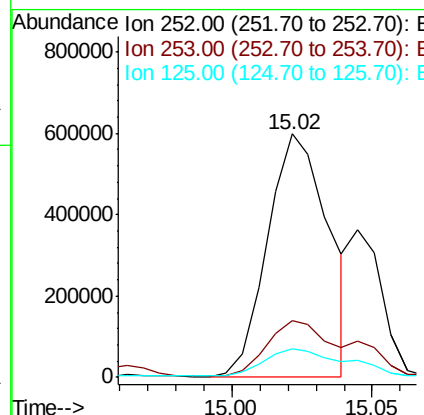
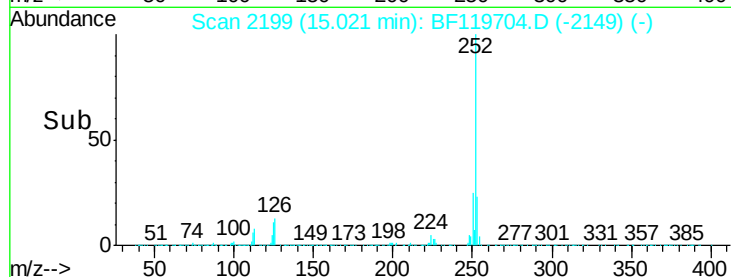
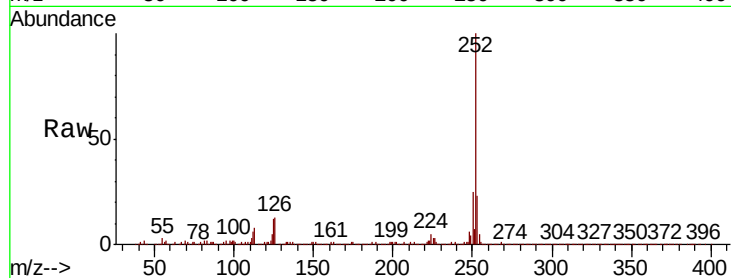
#88
Benzo(b)fluoranthene
Concen: 37.093 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.0
125	11.5	7.9	11.9

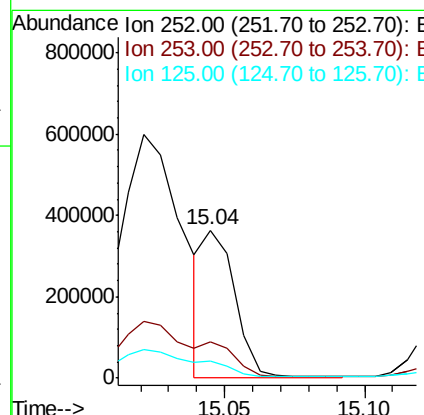
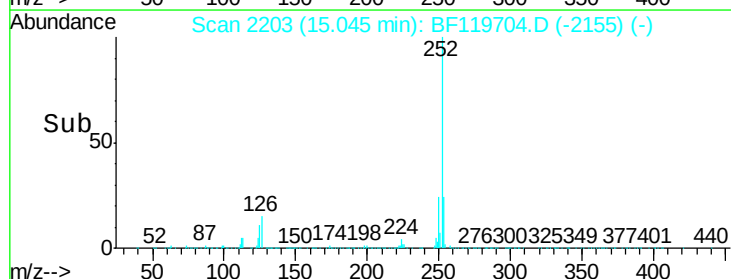
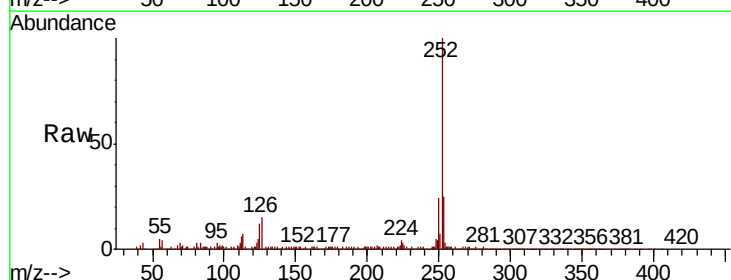
Manual Integrations
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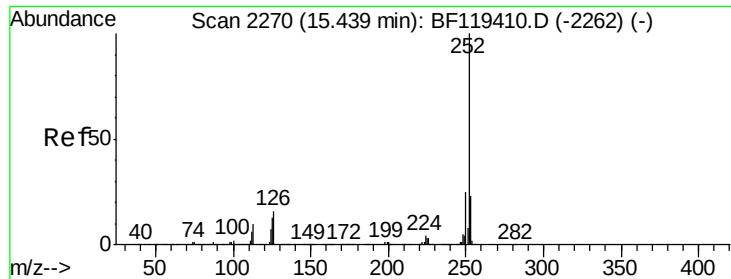
mohammad
4/3/2020 11:15:16 PM



#89
Benzo(k)fluoranthene
Concen: 12.137 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.02 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.6
125	11.7	8.4	12.6





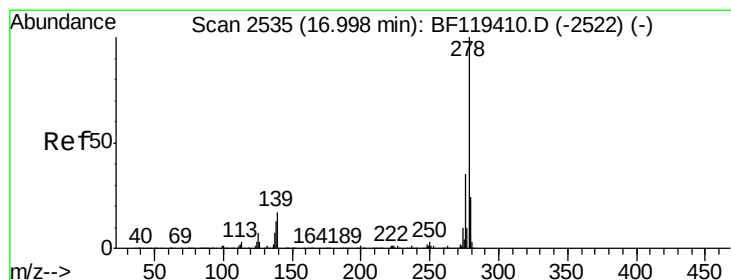
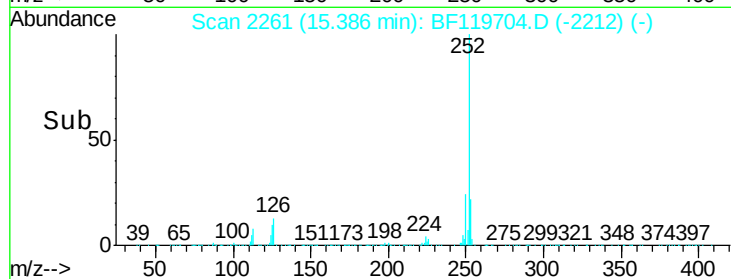
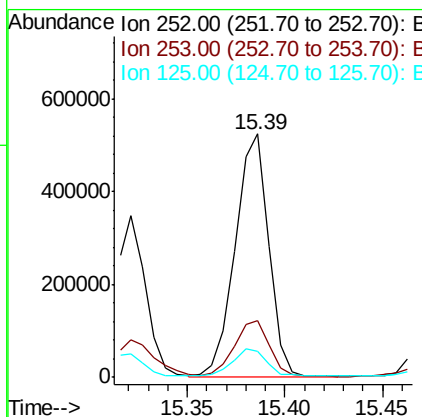
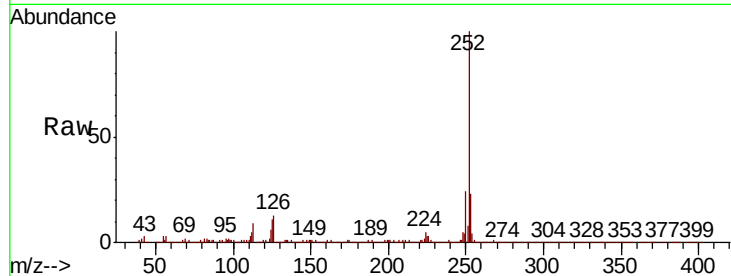
#90
Benzo(a)pyrene
Concen: 27.863 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	10.9	9.4	14.2

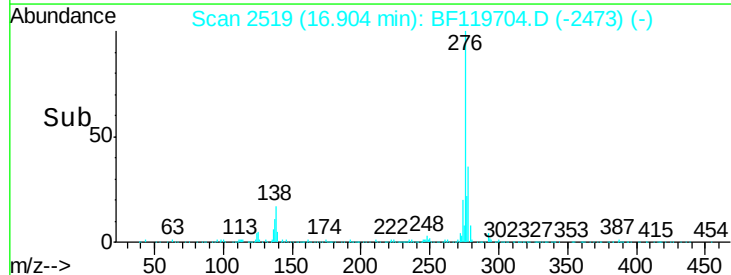
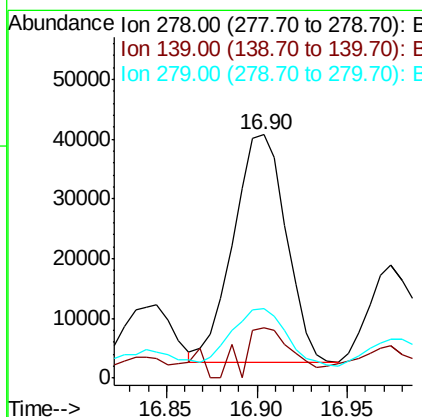
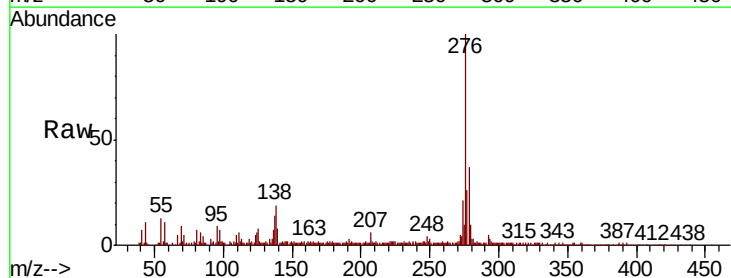
Manual Integrations
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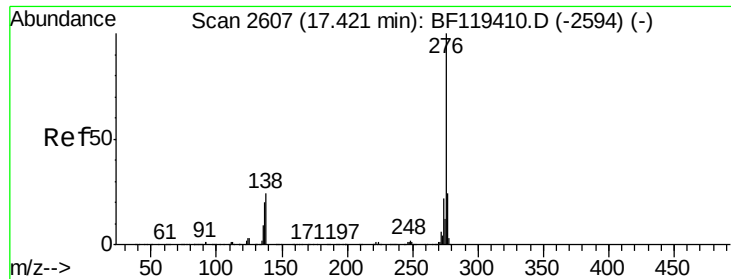
mohammad
4/3/2020 11:15:16 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.984 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.03 min
Lab File: BF119704.D
Acq: 2 Apr 2020 8:28

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.6	12.6	19.0#
279	28.4	19.0	28.6





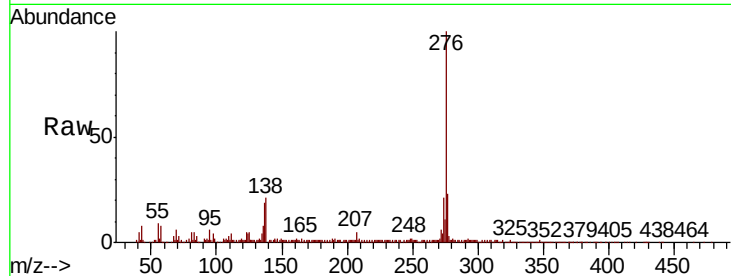
#92
 Benzo(a,h,i)perylene
 Concen: 14.075 ng
 RT: 17.33 min Scan# 2592
 Delta R.T. -0.02 min
 Lab File: BF119704.D
 Acq: 2 Apr 2020 8:28

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-033020

Tot Ion:	276	Resp:	275169
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.4	27.6
138	20.6	15.4	23.0

Manual Integrations
 APPROVED

mohammad
 4/3/2020 11:15:16 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

