

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
 Data File : BF120864.D
 Acq On : 14 Jul 2020 16:48
 Operator : JU/CG
 Sample : L3181-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-070920

Manual Integrations
 APPROVED

mohammad
 7/15/2020 10:59:50 AM

Quant Time: Jul 14 17:14:53 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070220.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 13 14:16:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	205415	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	771973	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	385732	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	667980	20.00	ng	0.00
76) Chrysene-d12	14.00	240	424433	20.00	ng	0.00
86) Perylene-d12	15.46	264	490470	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	900882	67.70	ng	0.00
7) Phenol-d6	6.45	99	1097924	64.61	ng	-0.01
23) Nitrobenzene-d5	7.39	82	677960	50.88	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	270728	69.86	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	1194964	46.87	ng	0.00
79) Terphenyl-d14	12.94	244	995677	45.93	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	507579	12.303	ng	99
37) 2-Methylnaphthalene	8.83	142	400838	14.946	ng	99
38) 1-Methylnaphthalene	8.93	142	382856	15.240	ng	99
46) 1,1'-Biphenyl	9.29	154	90079	2.895	ng	99
49) Acenaphthylene	9.73	152	418106	10.699	ng	97
50) Dimethylphthalate	9.58	163	189419	6.732	ng	99
52) Acenaphthene	9.90	154	206298	8.509	ng	97
55) Dibenzofuran	10.07	168	316849	9.067	ng	# 96
58) Fluorene	10.42	166	785076	30.181	ng	99
71) Phenanthrene	11.39	178	2871954	79.240	ng	99
72) Anthracene	11.43	178	1100056	30.036	ng	99
73) Carbazole	11.58	167	285082	8.100	ng	99
75) Fluoranthene	12.57	202	2313474	59.920	ng	99
78) Pyrene	12.80	202	2323239	68.537	ng	99
81) Benzo(a)anthracene	13.99	228	1107952m	40.723	ng	
83) Chrysene	14.02	228	1076655m	38.796	ng	
87) Indeno(1,2,3-cd)pyrene	16.90	276	491530	15.624	ng	97
88) Benzo(b)fluoranthene	15.03	252	1141970m	35.416	ng	
89) Benzo(k)fluoranthene	15.06	252	322760m	10.287	ng	
90) Benzo(a)pyrene	15.40	252	906376	31.511	ng	98
91) Dibenzo(a,h)anthracene	16.91	278	136316m	5.199	ng	
92) Benzo(g,h,i)perylene	17.33	276	442242	18.455	ng	99

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

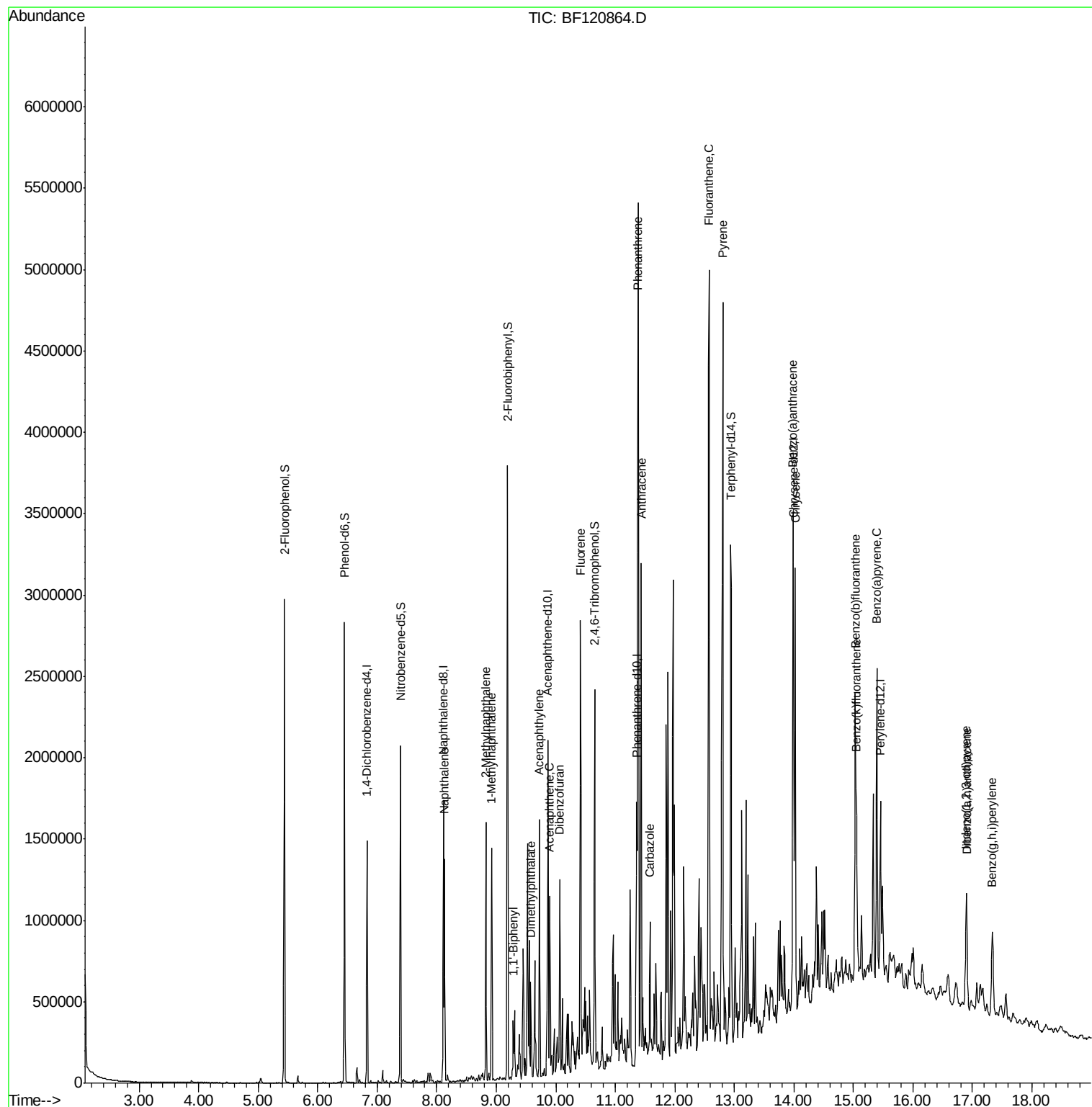
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

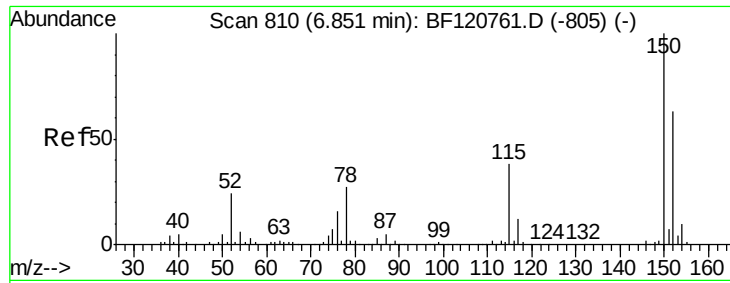
Instrument :
BNA_F
ClientSampleID :
CL-02-070920

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7/15/2020 10:59:50 AM

Quant Time: Jul 14 17:14:53 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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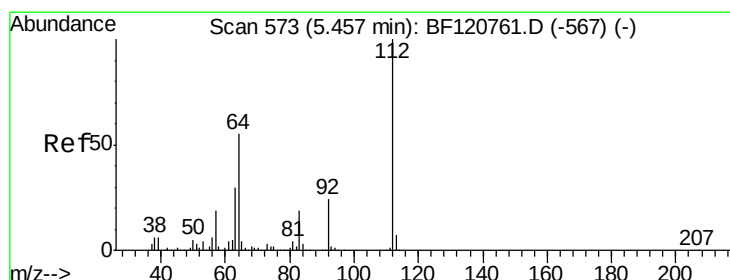
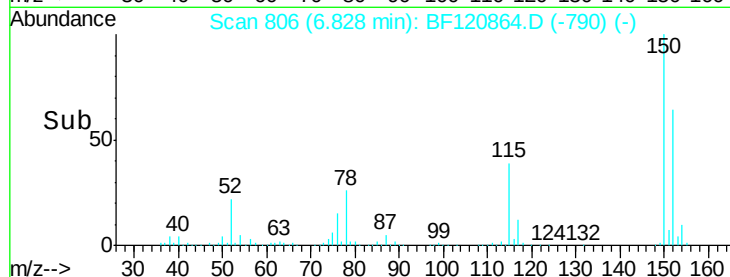
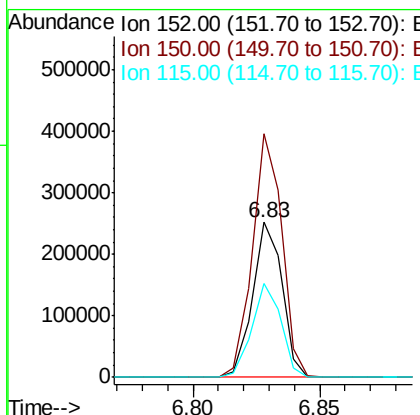
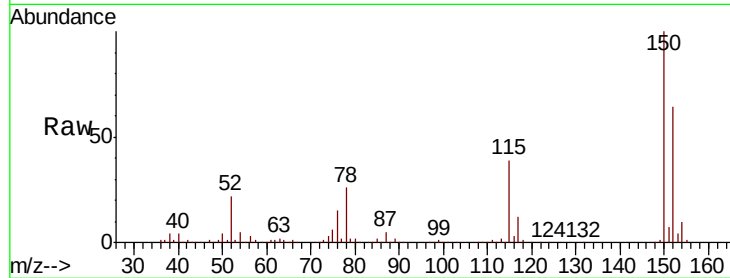
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	126.1	189.1
115	60.7	48.5	72.7

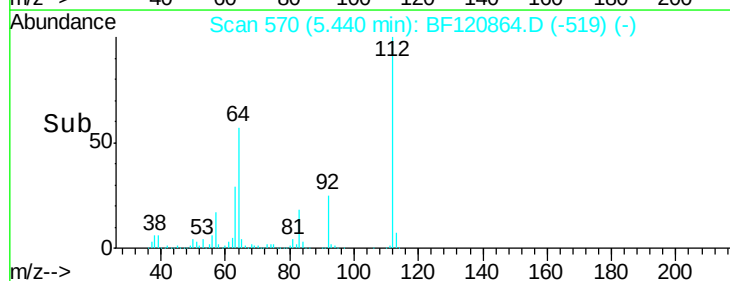
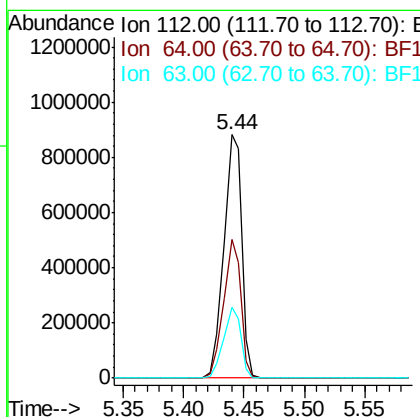
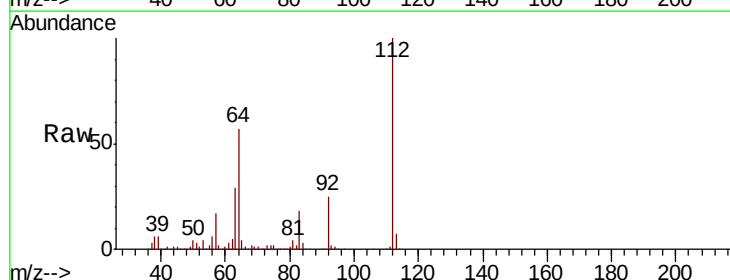
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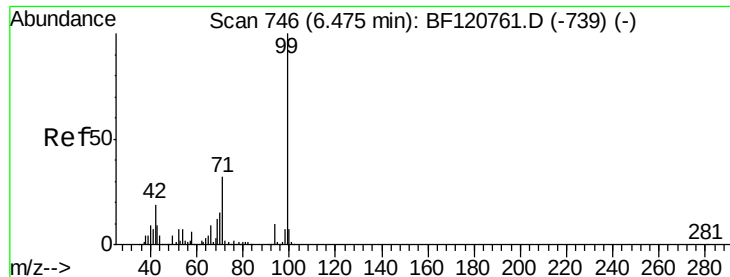
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#5
2-Fluorophenol
Concen: 67.699 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	43.8	65.6
63	29.0	23.6	35.4





#7

Phenol-d6

Concen: 64.608 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

ClientSampleId :

CL-02-070920

Tot Ion: 99 Resp: 1097924

Ion Ratio Lower Upper

99 100

42 18.0 15.4 23.0

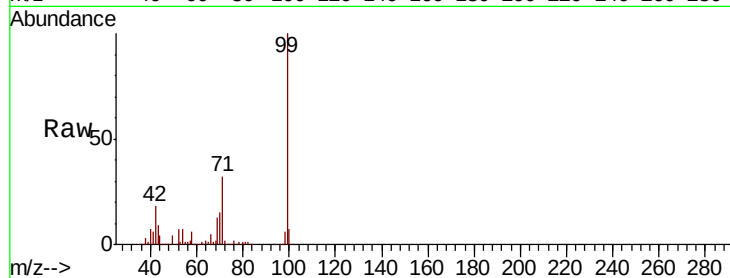
71 31.9 25.9 38.9

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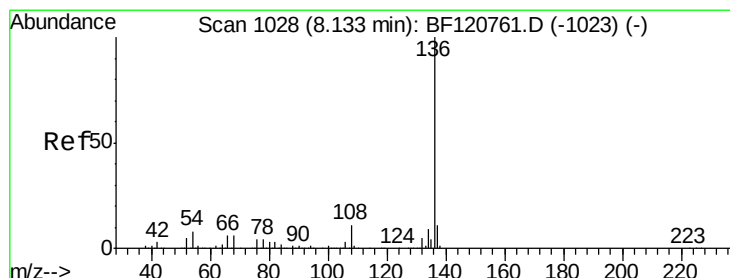
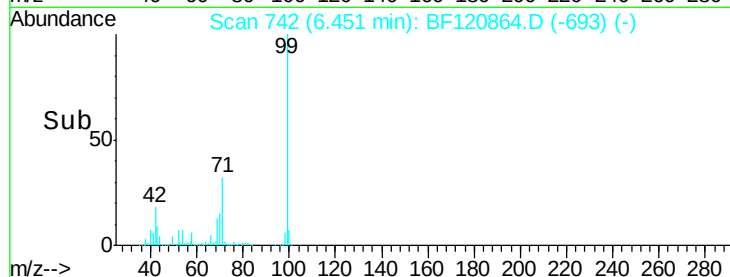
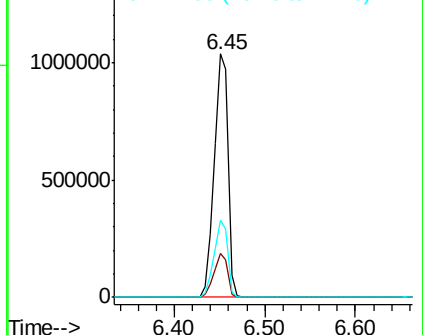
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Tgt Ion: 136 Resp: 771973

Ion Ratio Lower Upper

136 100

137 11.7 9.0 13.6

54 8.4 6.2 9.4

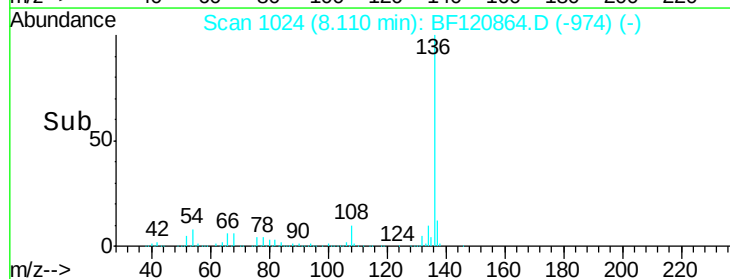
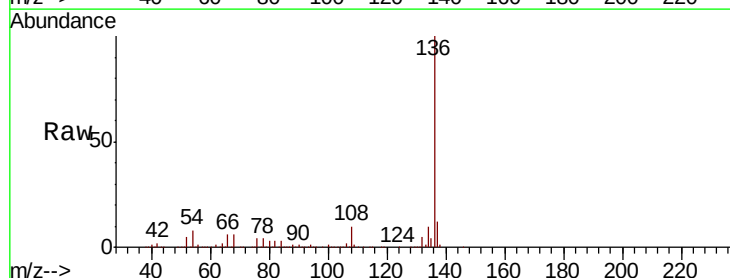
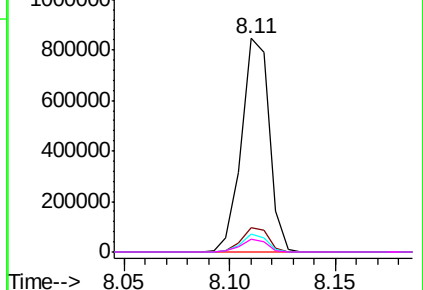
68 6.3 4.7 7.1

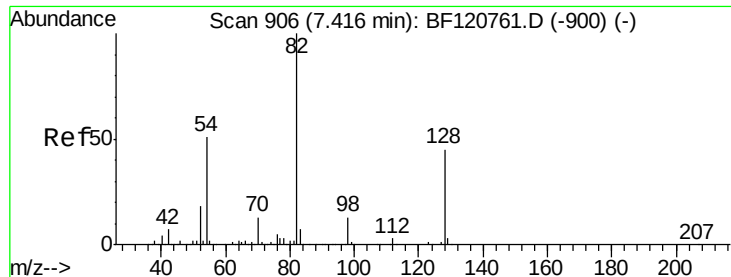
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 50.882 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

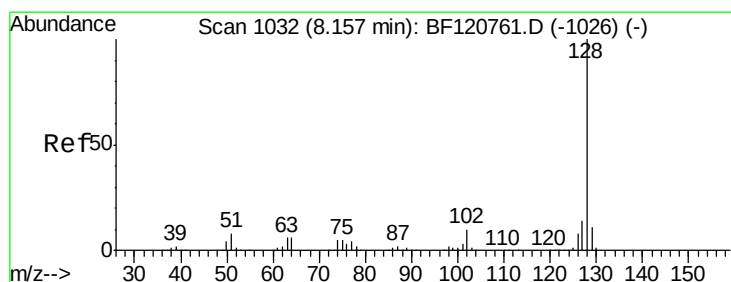
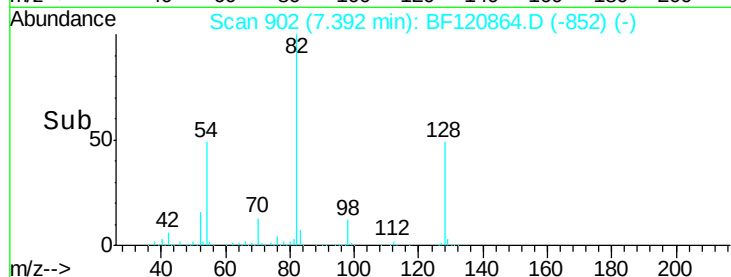
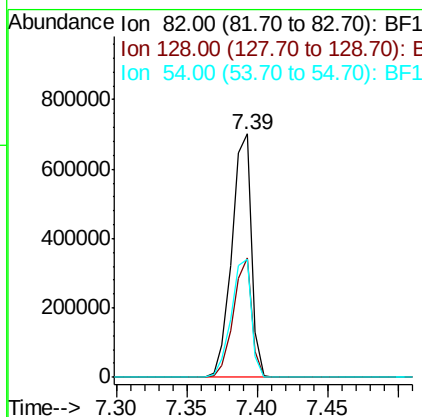
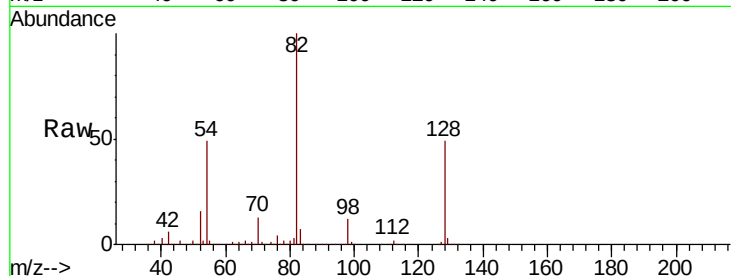
ClientSampleId :

CL-02-070920

Tot Ion:	82	Resp:	677960
Ion	Ratio	Lower	Upper
82	100		
128	49.0	35.7	53.5
54	48.7	40.9	61.3

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#31

Naphthalene

Concen: 12.303 ng

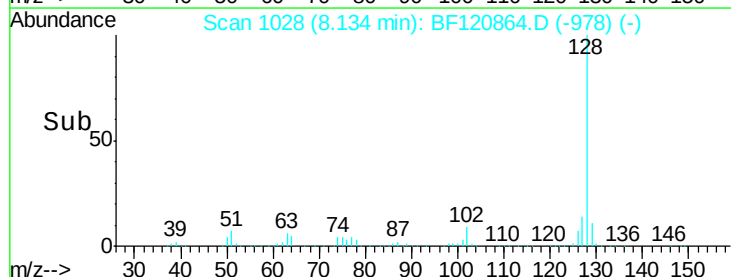
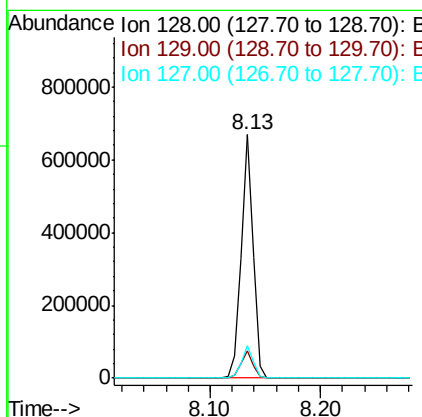
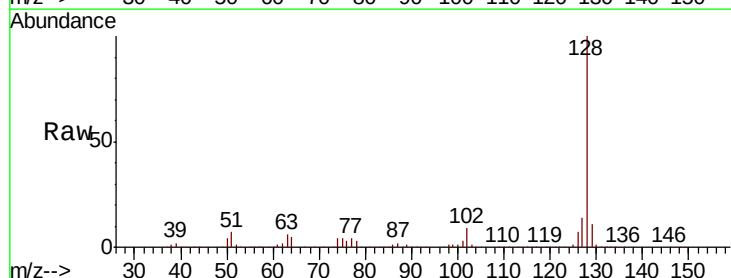
RT: 8.13 min Scan# 1028

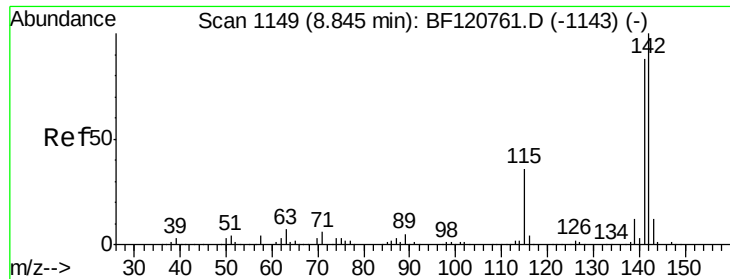
Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Tgt Ion:	128	Resp:	507579
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.5	11.1	16.7





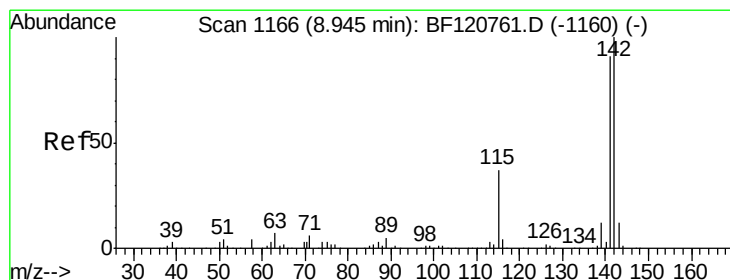
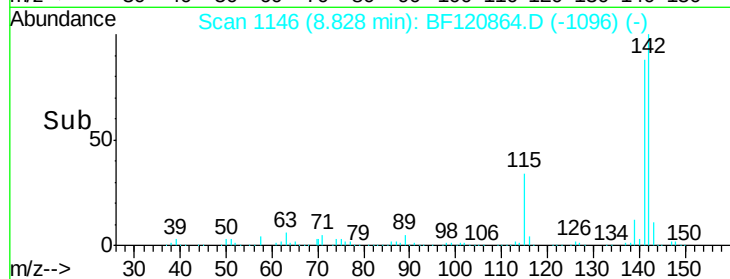
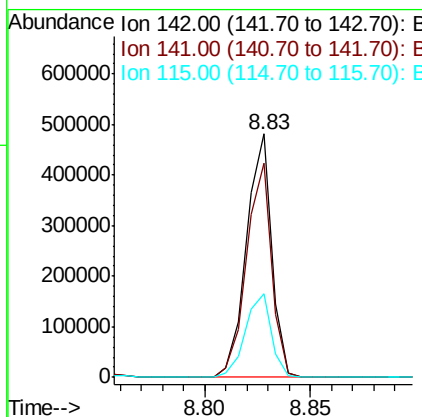
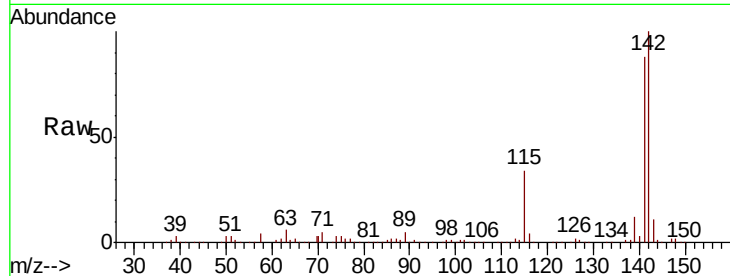
#37
2-Methylnaphthalene
Concen: 14.946 ng
RT: 8.83 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.2	105.4
115	34.4	29.0	43.4

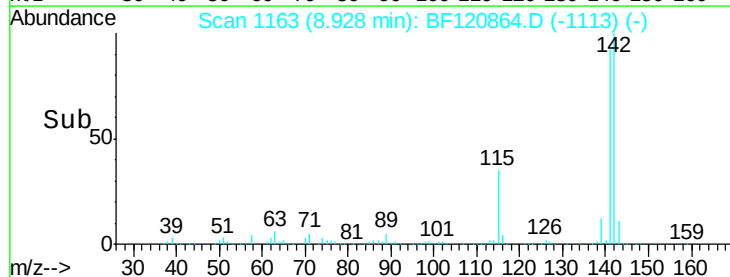
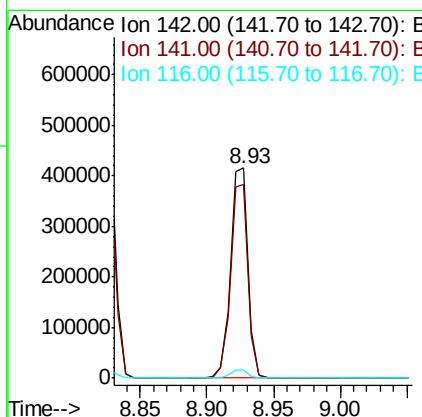
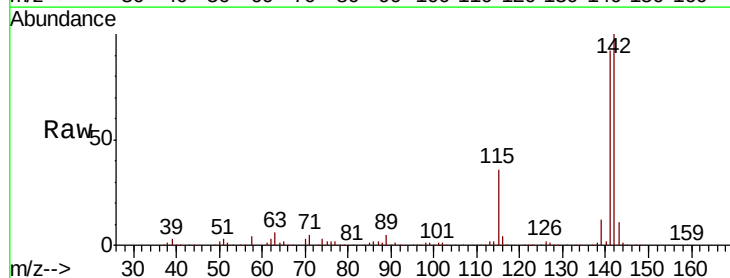
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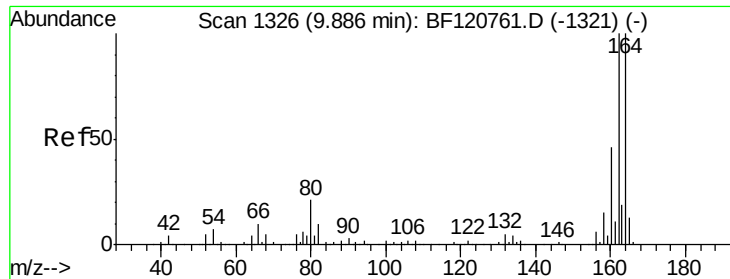
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#38
1-Methylnaphthalene
Concen: 15.240 ng
RT: 8.93 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.5	108.7
116	3.7	3.1	4.7





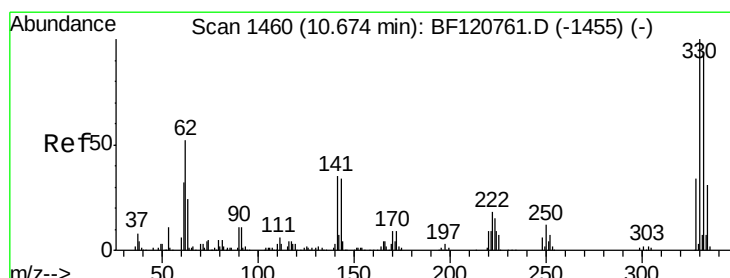
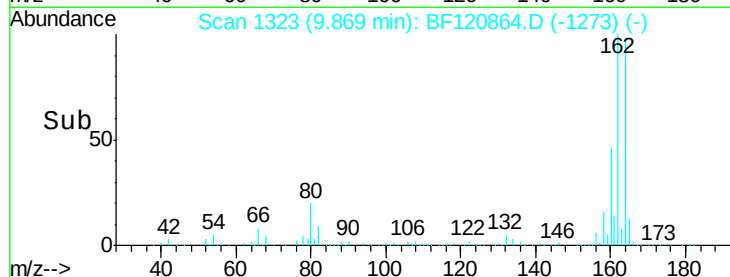
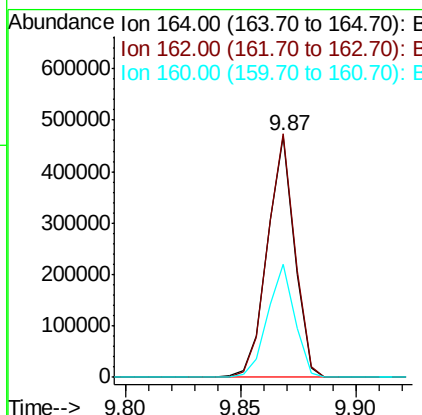
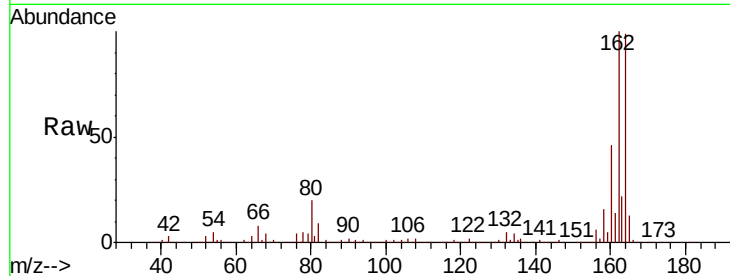
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-070920

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.2	120.2
160	46.6	36.9	55.3

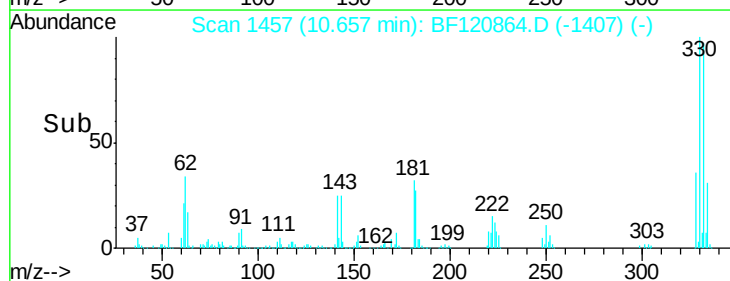
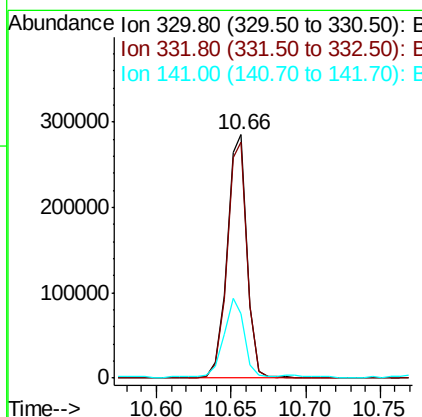
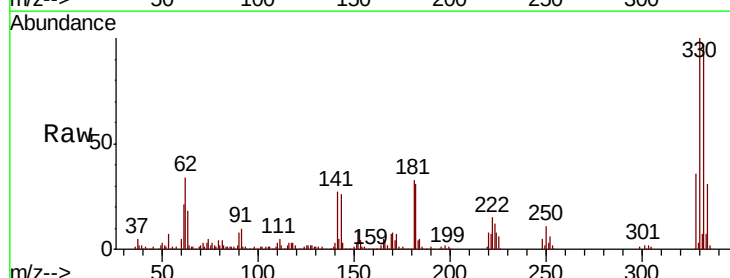
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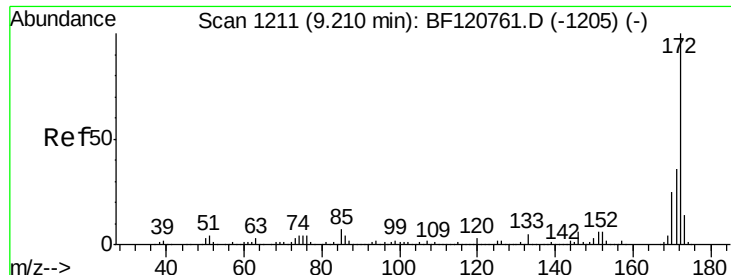
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#42
 2,4,6-Tribromophenol
 Concen: 69.861 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	75.8	113.6
141	32.9	29.7	44.5





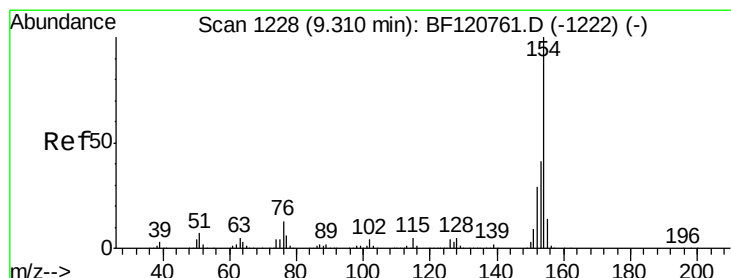
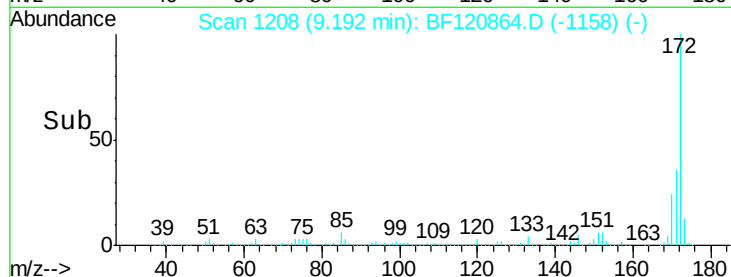
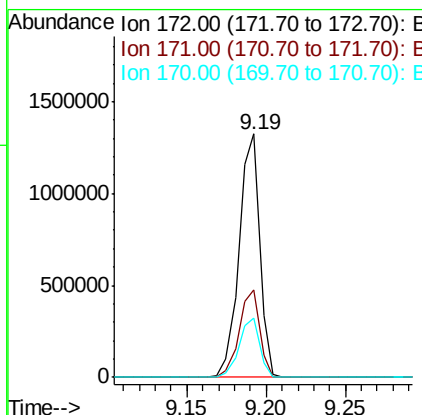
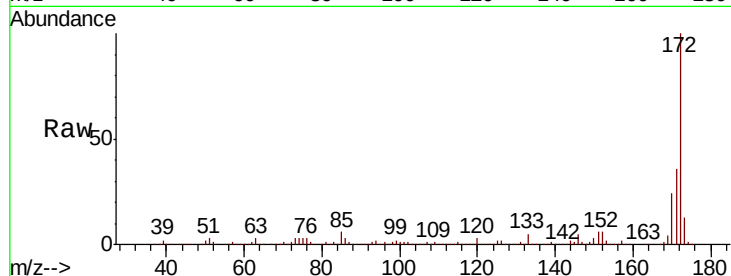
#45
2-Fluorobiphenyl
Concen: 46.870 ng
RT: 9.19 min Scan# 1208
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.1	43.7
170	24.5	19.8	29.6

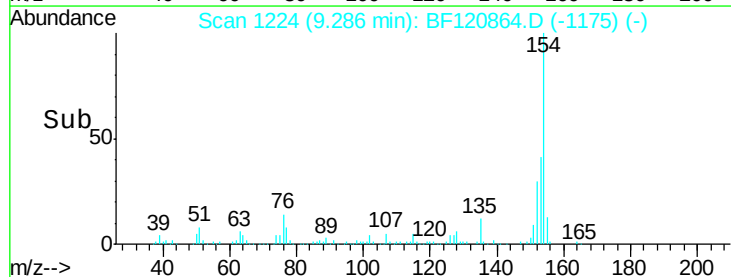
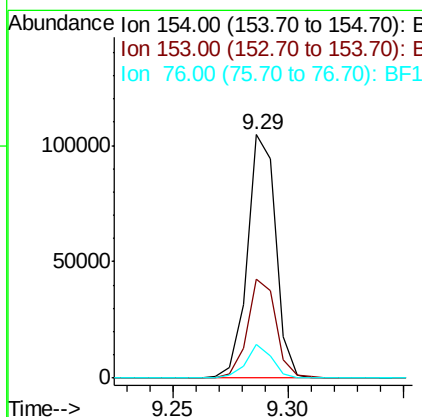
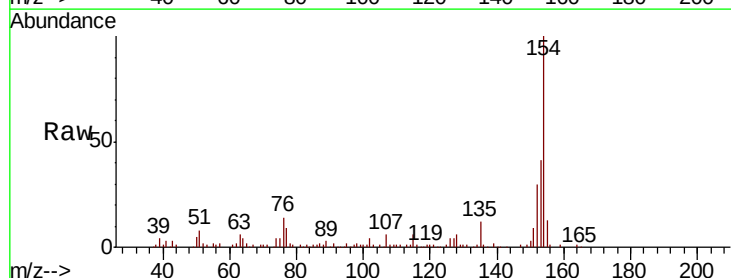
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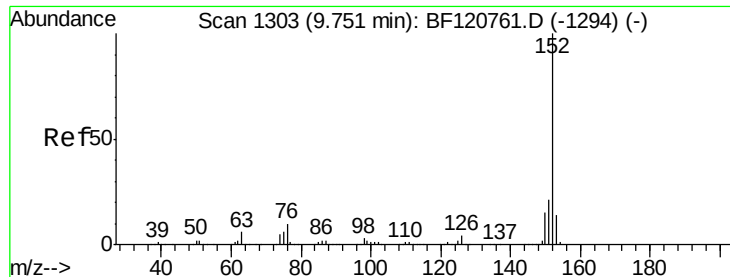
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#46
1,1'-Biphenyl
Concen: 2.895 ng
RT: 9.29 min Scan# 1224
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.7	60.7
76	14.0	0.0	33.3





#49

Acenaphthylene

Concen: 10.699 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

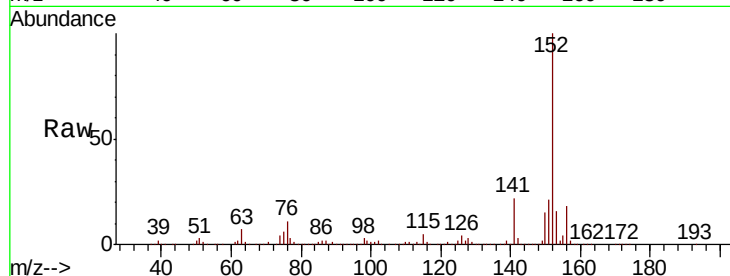
ClientSampleId :

CL-02-070920

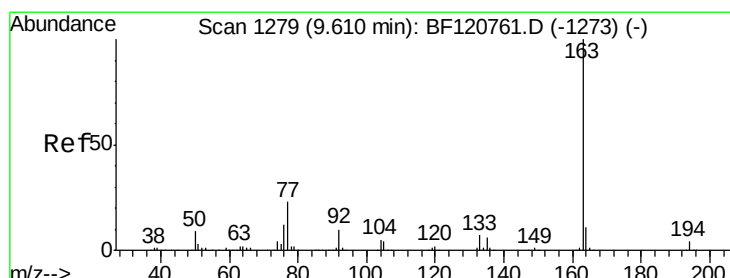
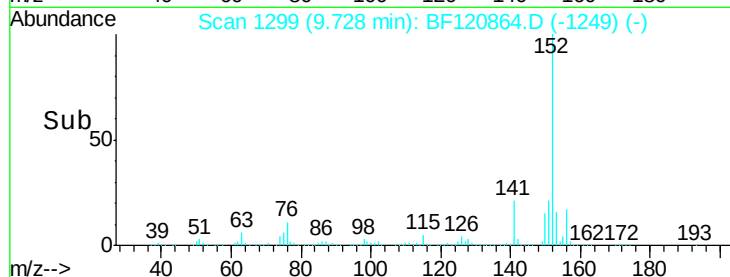
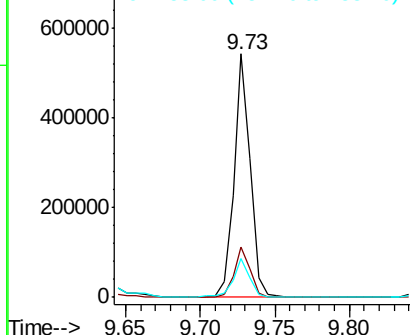
Tot Ion:	152	Resp:	418106
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.9	25.3
153	15.8	10.8	16.2

Manual Integrations
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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



#50

Dimethylphthalate

Concen: 6.732 ng

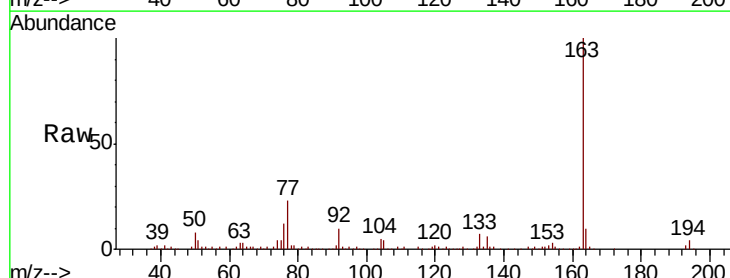
RT: 9.58 min Scan# 1274

Delta R.T. -0.02 min

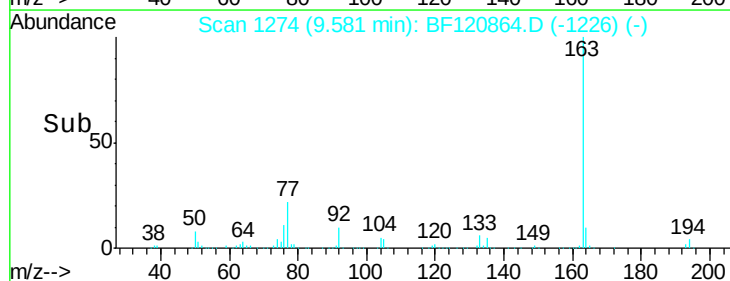
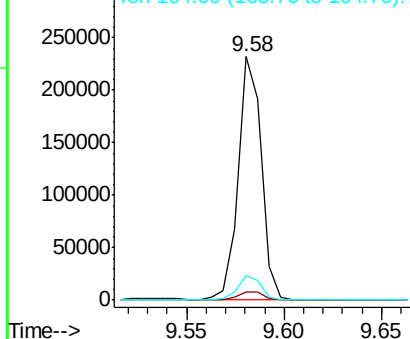
Lab File: BF120864.D

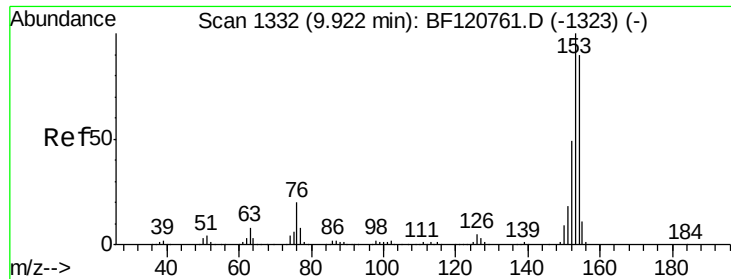
Acq: 14 Jul 2020 16:48

Tgt Ion:	163	Resp:	189419
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.9	4.3
164	10.3	8.5	12.7



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 8.509 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

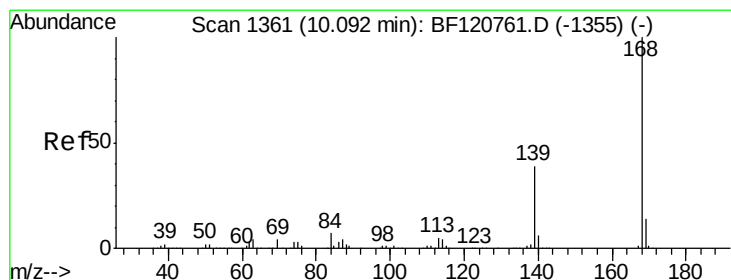
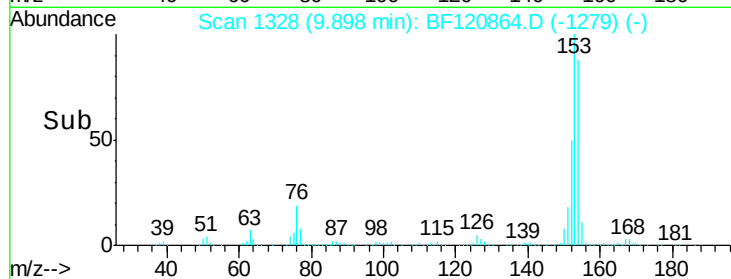
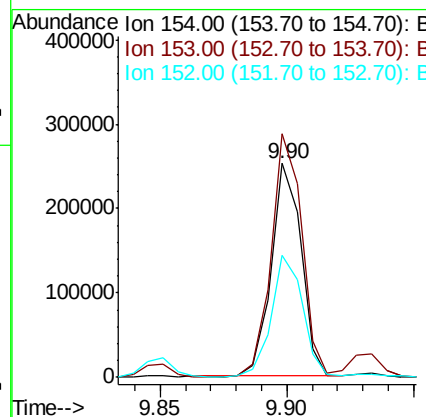
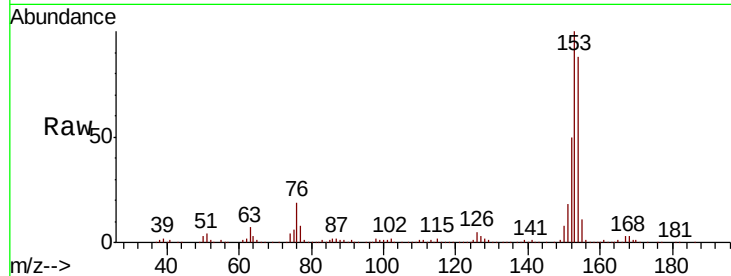
ClientSampleId :

CL-02-070920

Tot Ion:	154	Resp:	206298
Ion Ratio	Lower	Upper	
154	100		
153	114.0	88.6	132.8
152	57.0	43.6	65.4

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#55

Dibenzofuran

Concen: 9.067 ng

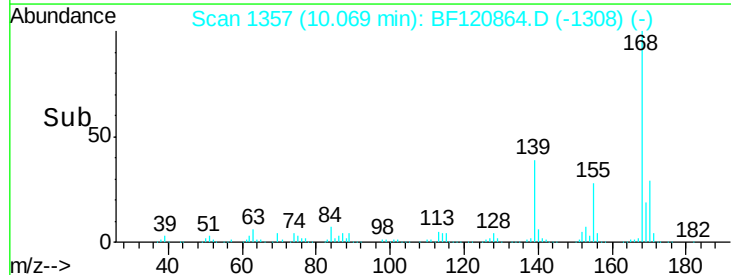
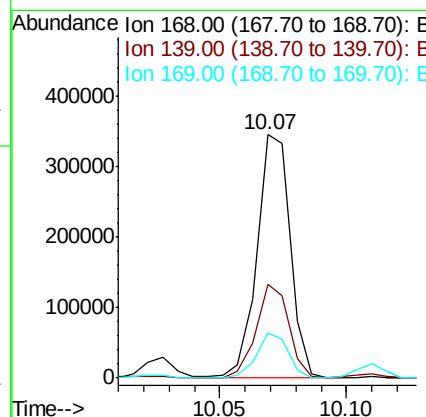
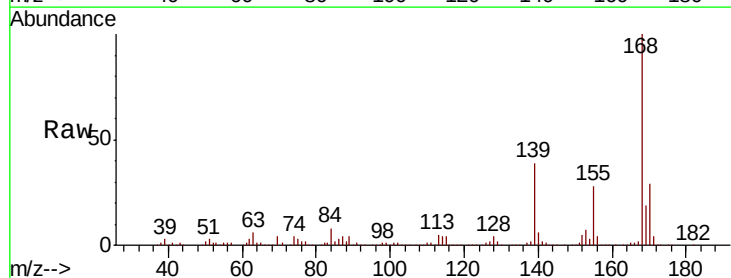
RT: 10.07 min Scan# 1357

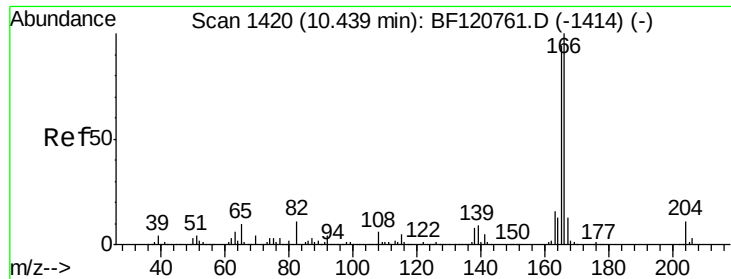
Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Tgt Ion:	168	Resp:	316849
Ion Ratio	Lower	Upper	
168	100		
139	38.6	31.3	46.9
169	18.6	11.2	16.8#





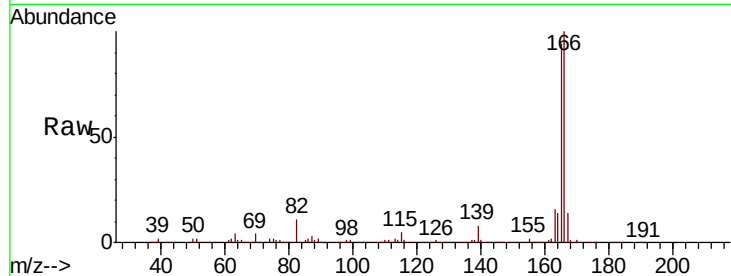
#58
Fluorene
Concen: 30.181 ng
RT: 10.42 min Scan# 1416
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	94.0	75.5	113.3		
167	14.0	10.6	16.0		

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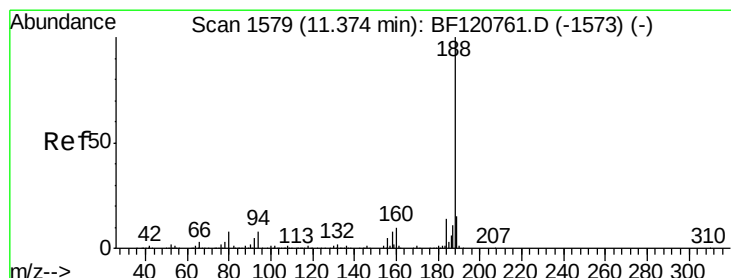
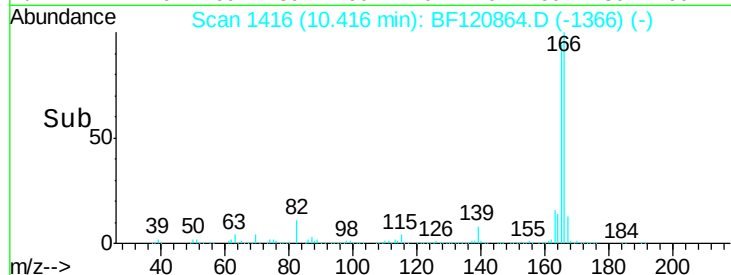
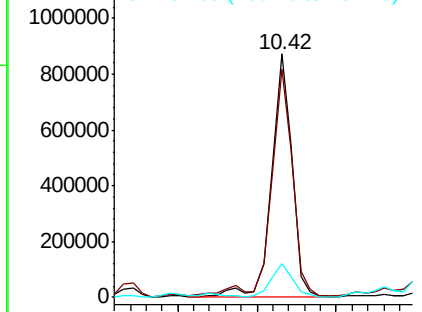


Abundance

Ion 166.00 (165.70 to 166.70): E

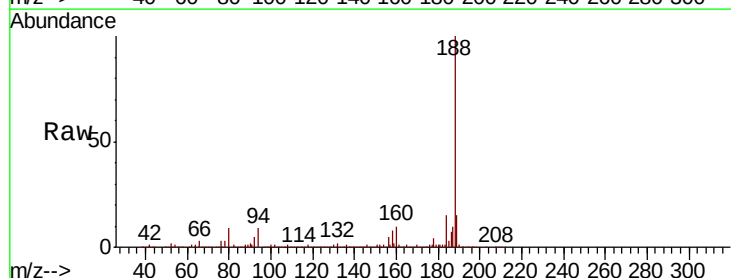
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	9.3	6.6	9.8		
80	9.5	6.6	10.0		

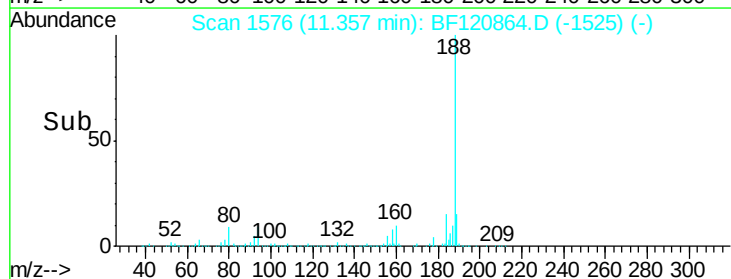
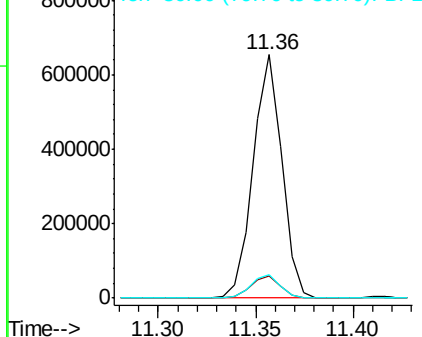


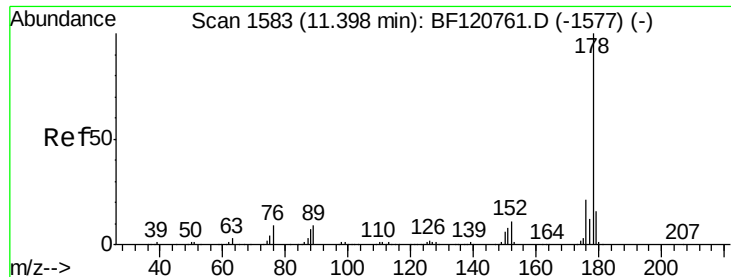
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





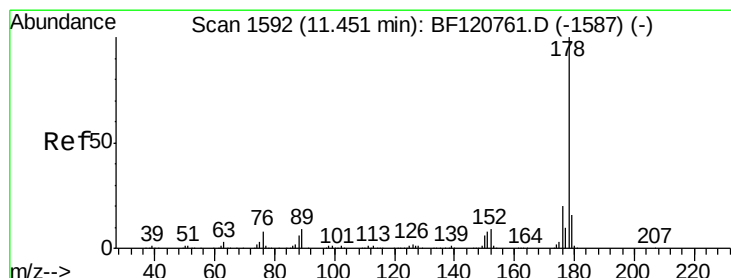
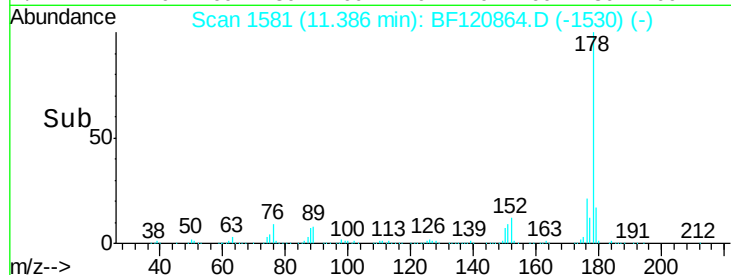
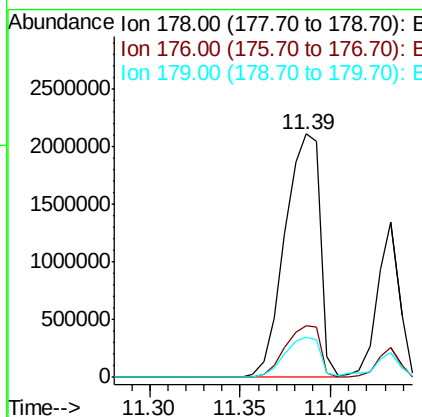
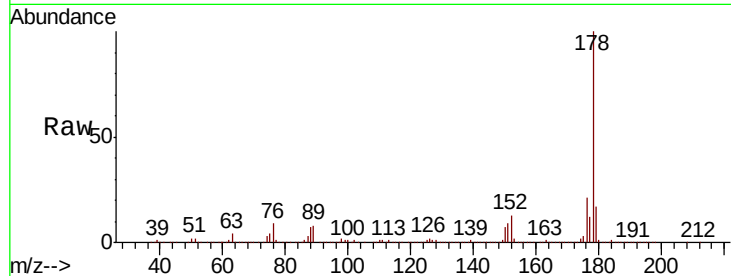
#71
Phenanthrene
Concen: 79.240 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion:178 Resp: 2871954
Ion Ratio Lower Upper
178 100
176 21.1 16.4 24.6
179 16.6 12.9 19.3

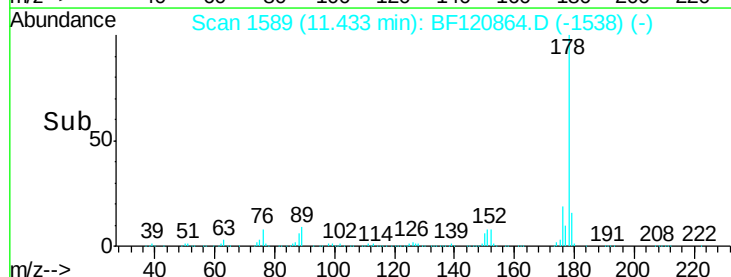
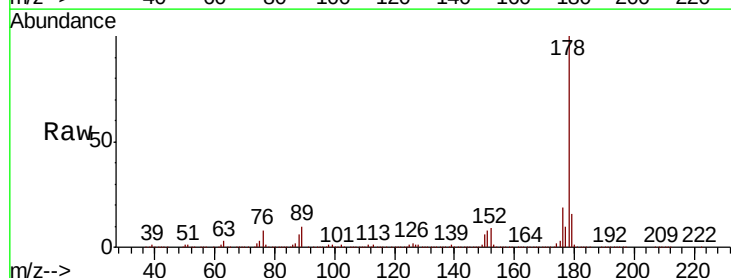
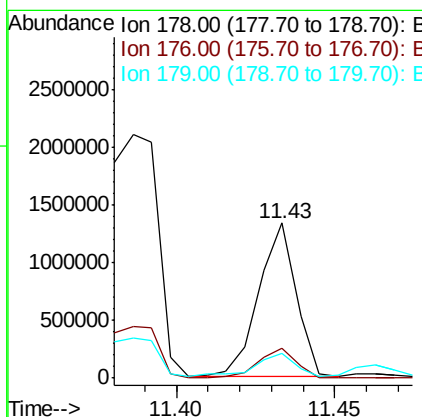
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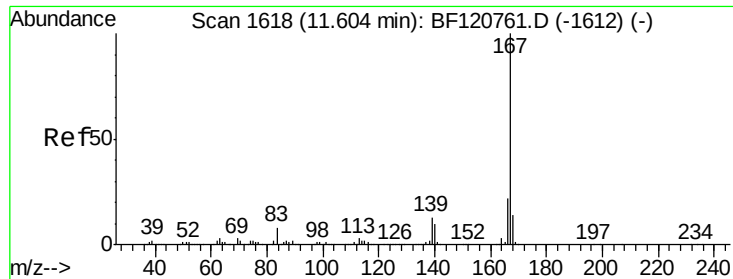
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#72
Anthracene
Concen: 30.036 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion:178 Resp: 1100056
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.2
179 15.9 12.7 19.1





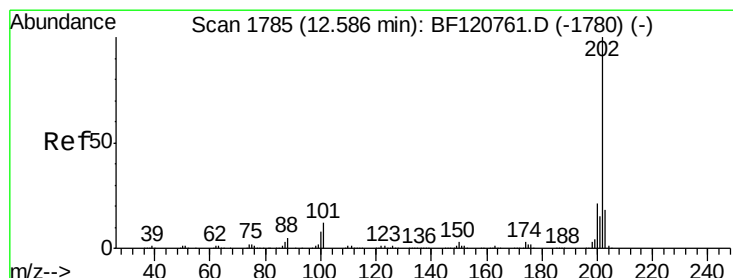
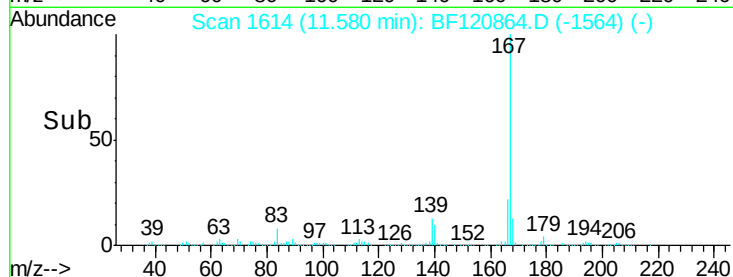
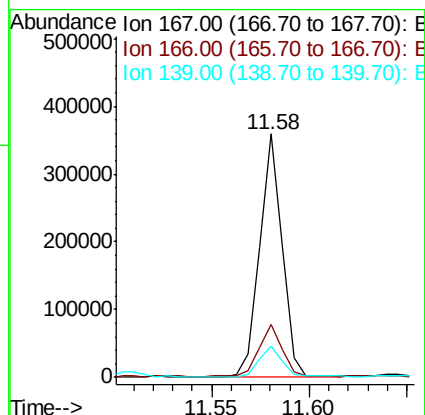
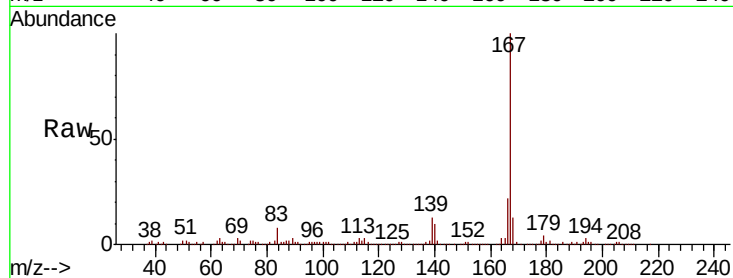
#73
 Carbazole
 Concen: 8.100 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-070920

Tot Ion:	167	Resp:	285082
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.8	26.8
139	13.0	10.7	16.1

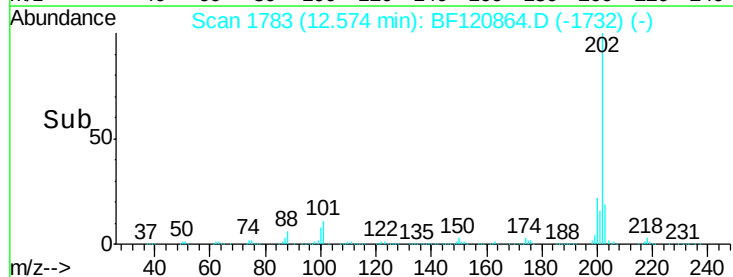
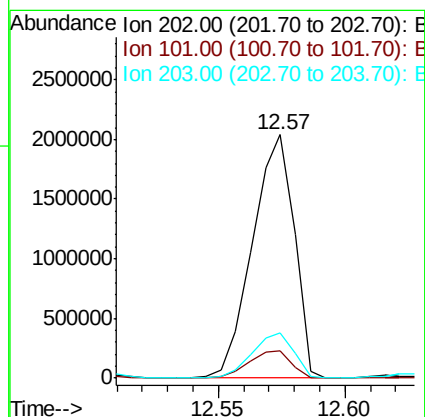
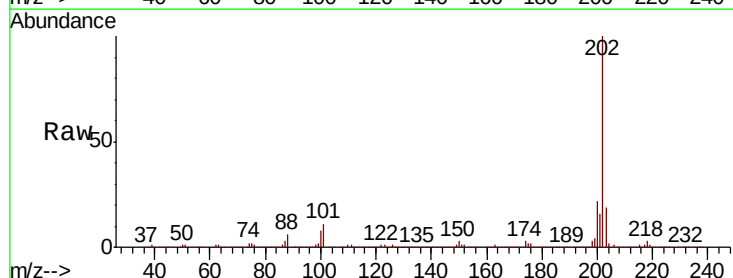
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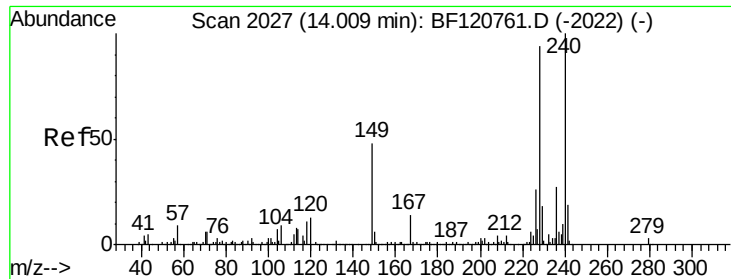
mohammad
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#75
 Fluoranthene
 Concen: 59.920 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Tgt Ion:	202	Resp:	2313474
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	31.6
203	18.7	0.0	38.2





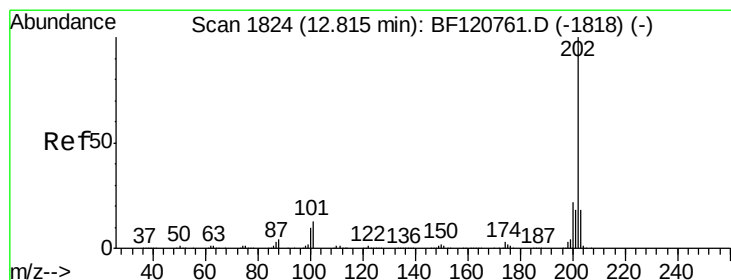
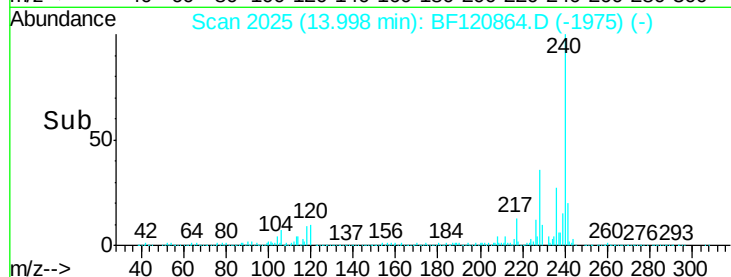
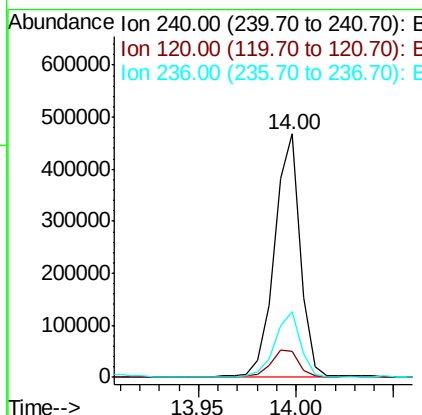
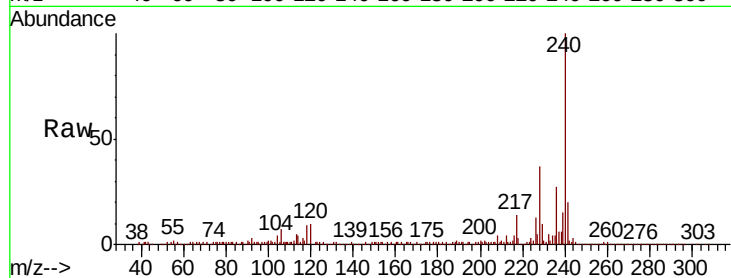
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.5	10.3	15.5
236	26.8	21.4	32.2

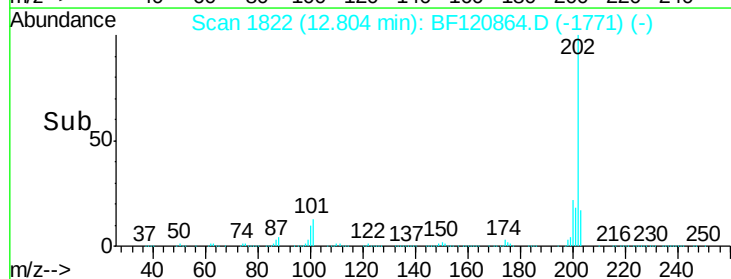
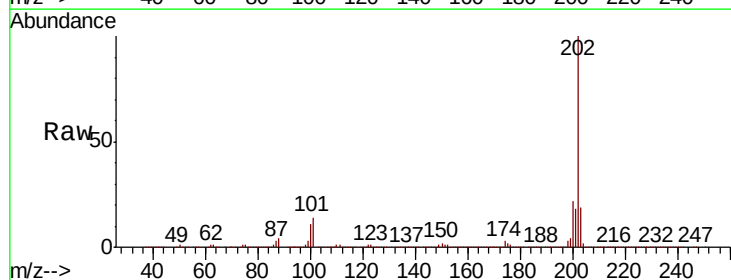
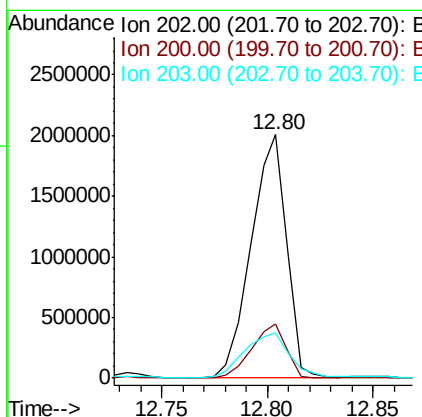
Manual Integrations
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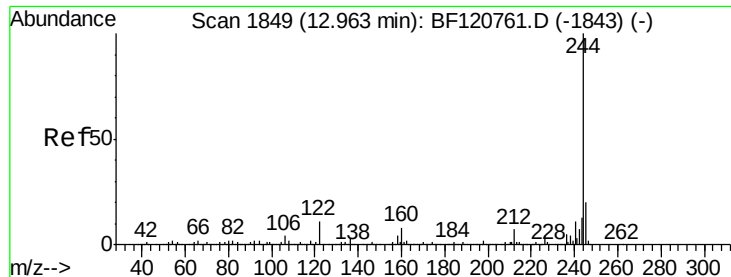
mohammad
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#78
Pyrene
Concen: 68.537 ng
RT: 12.80 min Scan# 1822
Delta R.T. 0.00 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.3	25.9
203	18.6	14.6	22.0





#79

Terphenyl-d14

Concen: 45.930 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

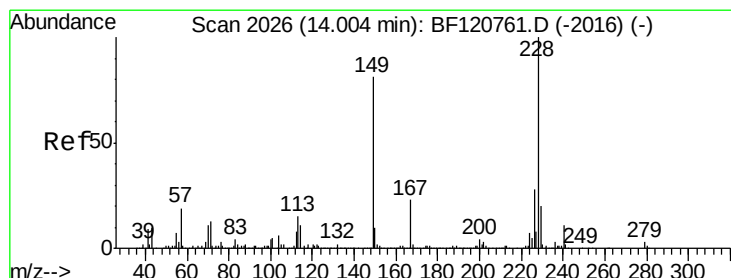
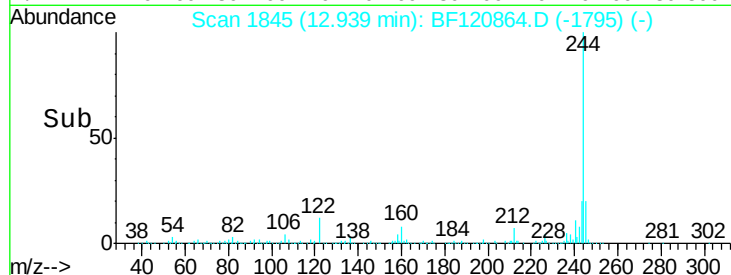
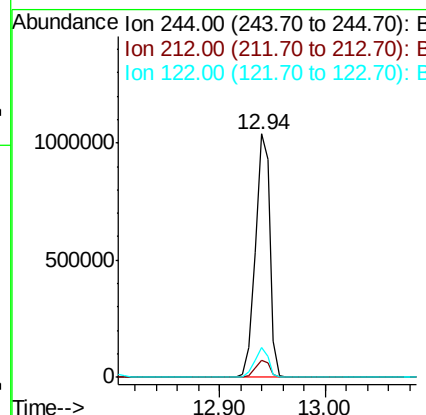
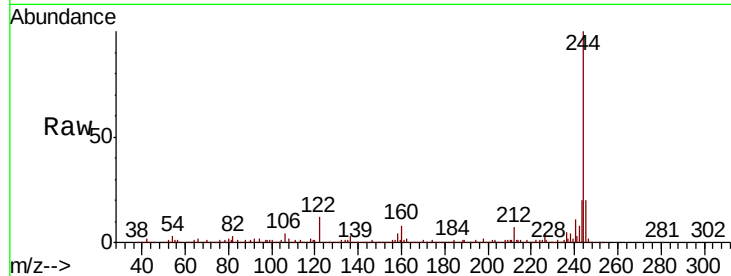
ClientSampleId :

CL-02-070920

Tot Ion:	244	Resp:	995677
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.6	8.4
122	12.1	9.0	13.4

Manual Integrations
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#81

Benzo(a)anthracene

Concen: 40.723 ng m

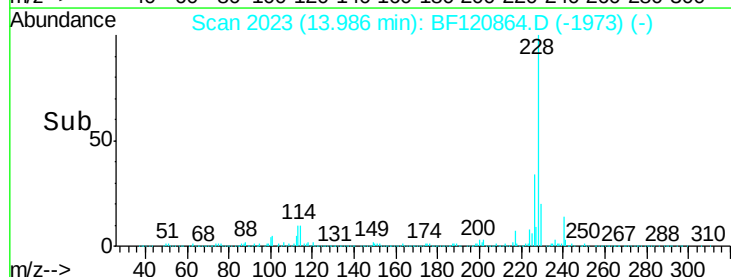
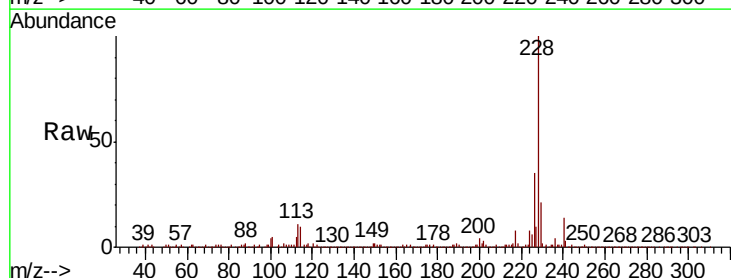
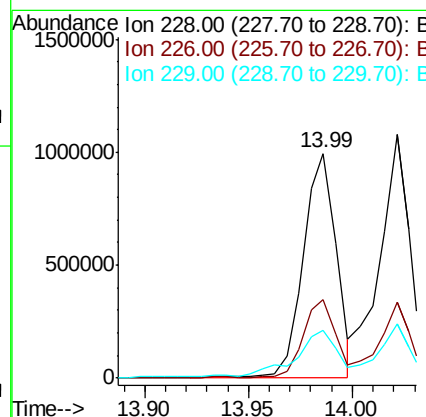
RT: 13.99 min Scan# 2023

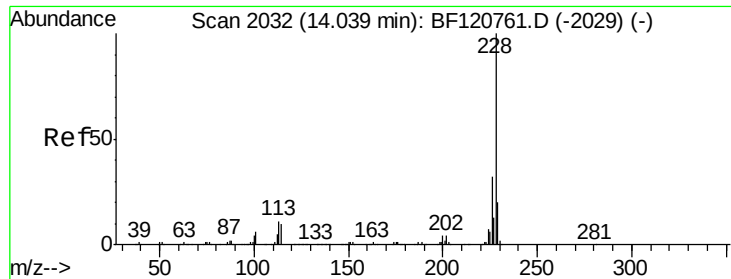
Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Tgt Ion:	228	Resp:	1107952
Ion Ratio	Lower	Upper	
228	100		
226	34.9	22.6	33.8#
229	21.5	15.8	23.6





#83

Chrysene

Concen: 38.796 ng/mL

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

ClientSampleId :

CL-02-070920

Tot Ion: 228 Resp: 1076655

Ion Ratio Lower Upper

228 100

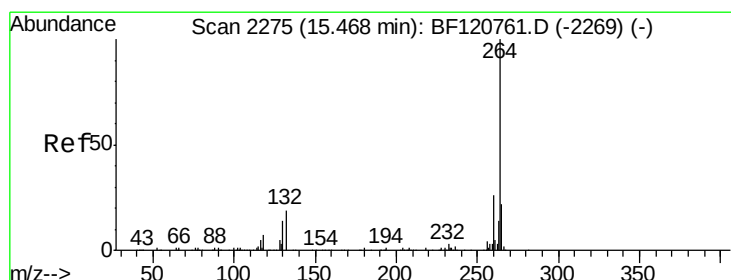
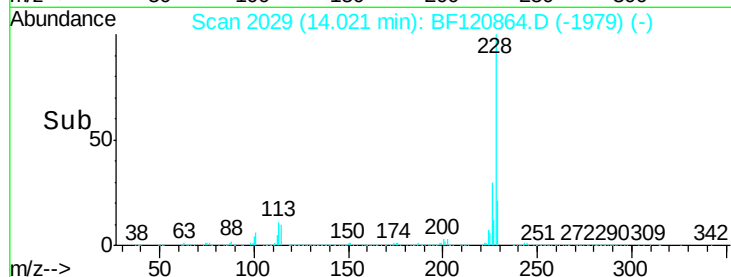
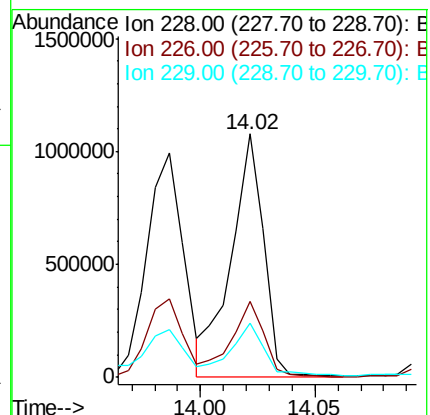
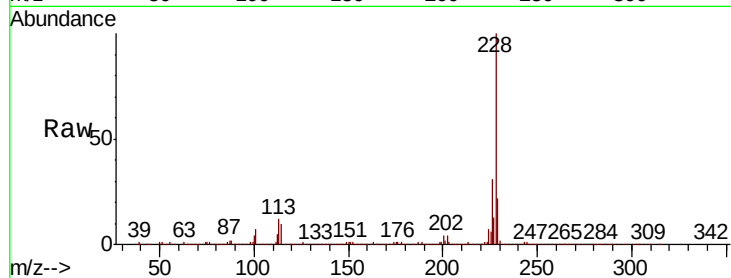
226 31.2 25.7 38.5

229 22.5 16.3 24.5

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#86

Perylene-d12

Concen: 20.000 ng/mL

RT: 15.46 min Scan# 2273

Delta R.T. 0.00 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

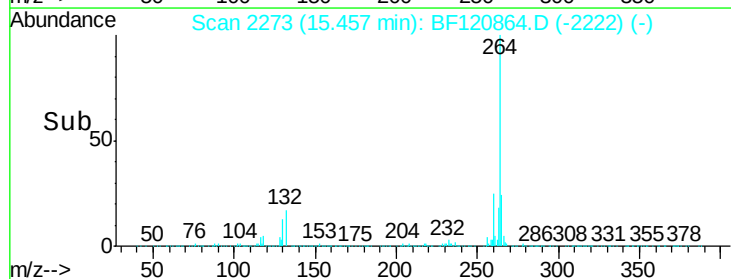
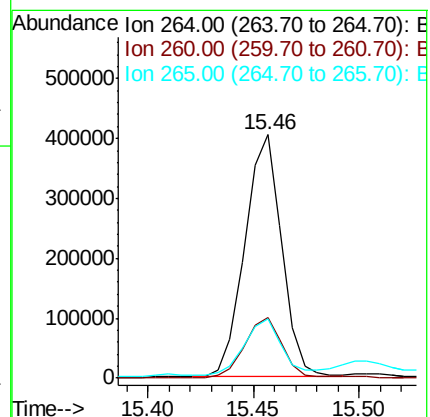
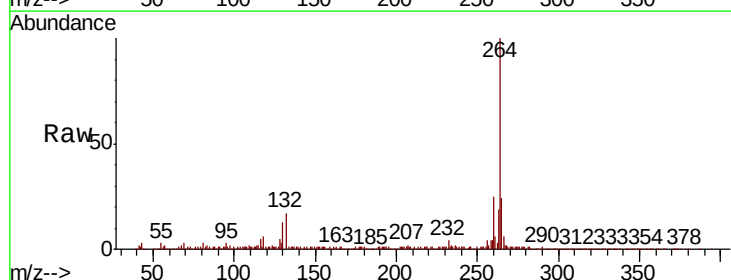
Tgt Ion: 264 Resp: 490470

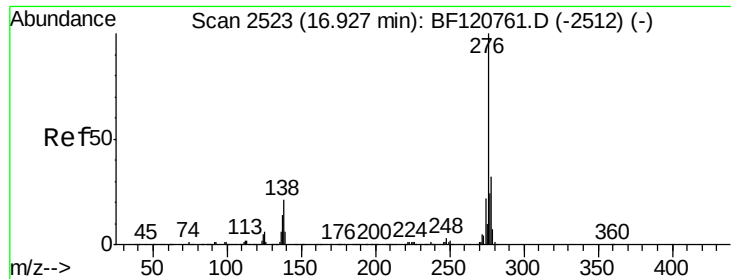
Ion Ratio Lower Upper

264 100

260 25.1 20.6 30.8

265 24.2 17.6 26.4





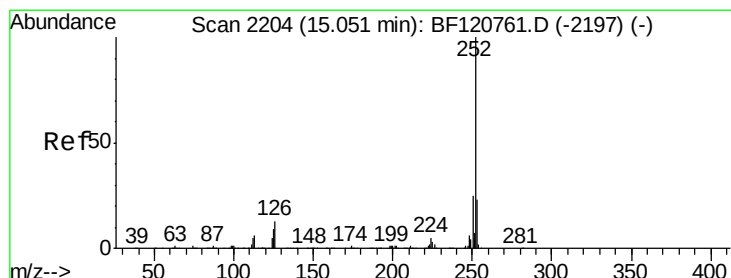
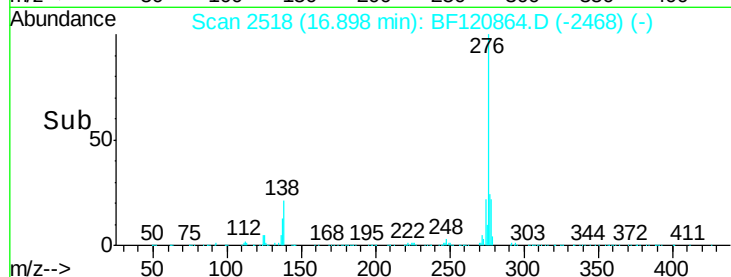
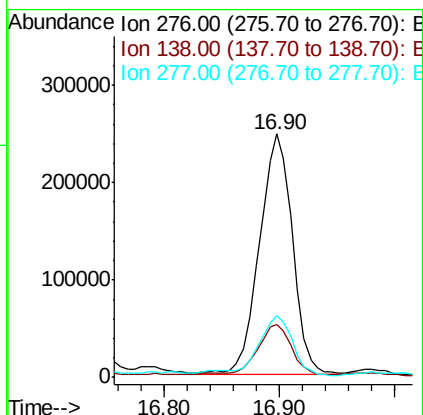
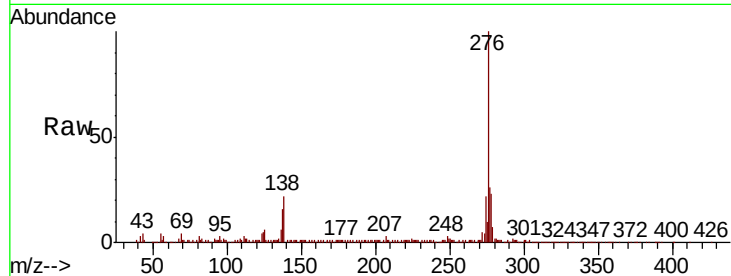
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 15.624 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.01 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-070920

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.7	19.8	29.8
277	24.9	19.9	29.9

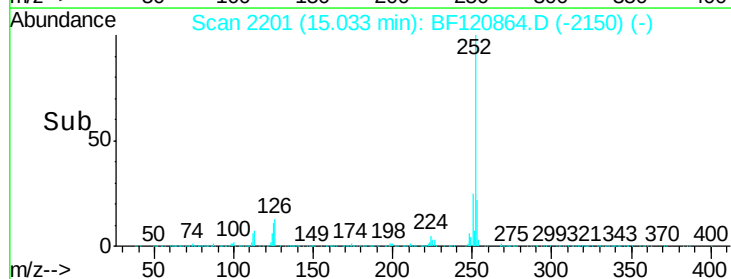
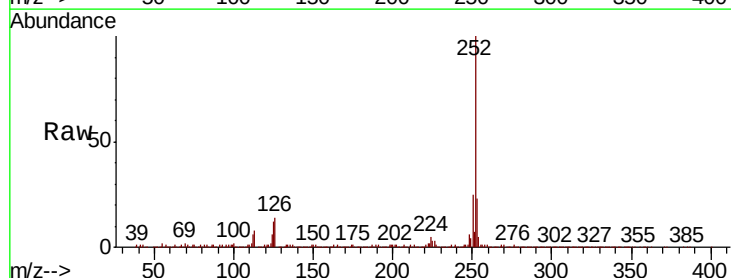
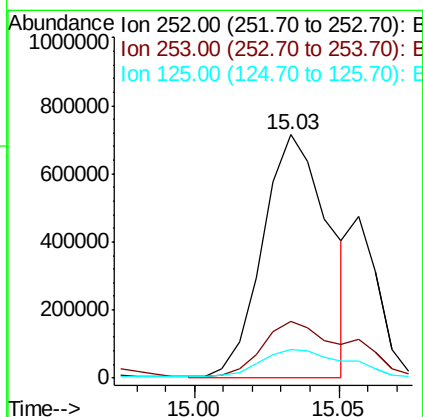
Manual Integrations
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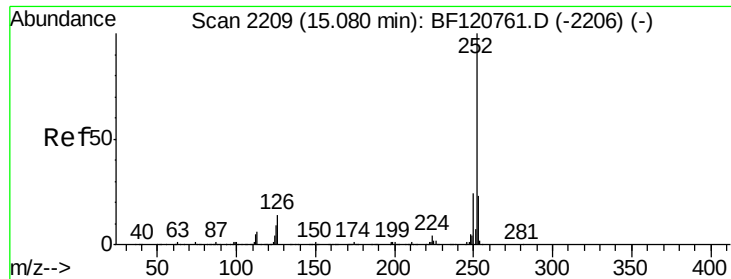
mohammad
 7/15/2020 10:59:50 AM



#88
 Benzo(b)fluoranthene
 Concen: 35.416 ng m
 RT: 15.03 min Scan# 2201
 Delta R.T. 0.00 min
 Lab File: BF120864.D
 Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	11.9	7.5	11.3#





#89

Benzo(k)fluoranthene

Concen: 10.287 ng m

RT: 15.06 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Instrument :

BNA_F

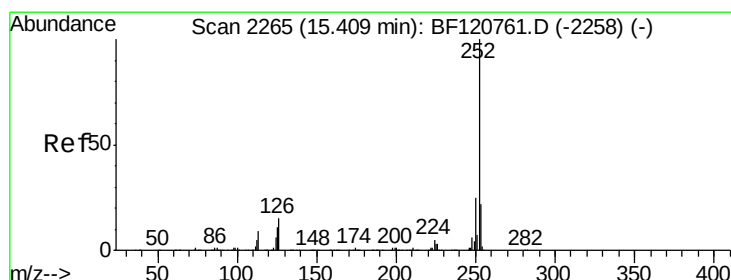
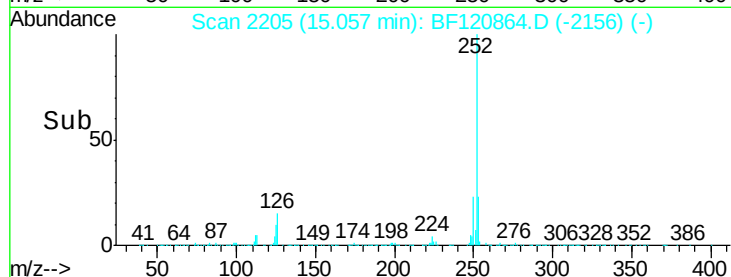
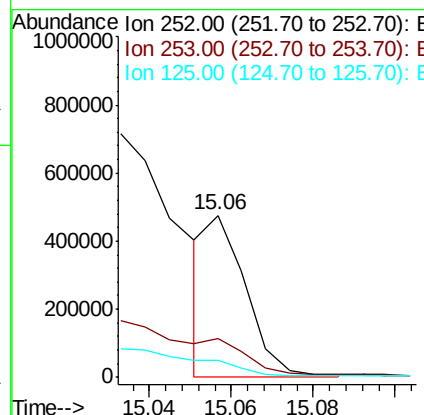
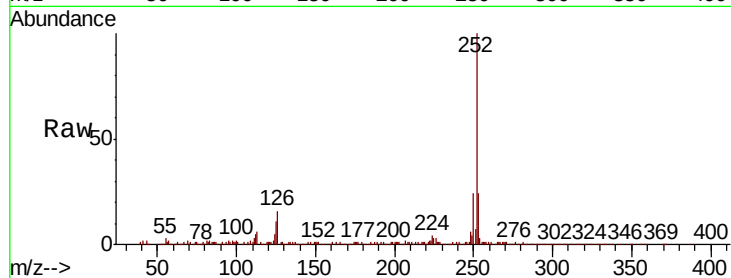
ClientSampleId :

CL-02-070920

Tot Ion:	252	Resp:	322760
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.9	26.9
125	10.6	7.6	11.4

Manual Integrations
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mohammad
7/15/2020 10:59:50 AM



#90

Benzo(a)pyrene

Concen: 31.511 ng

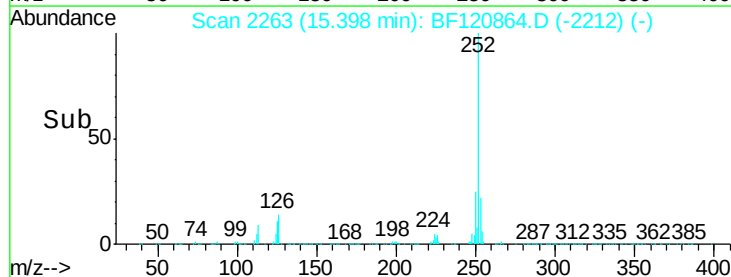
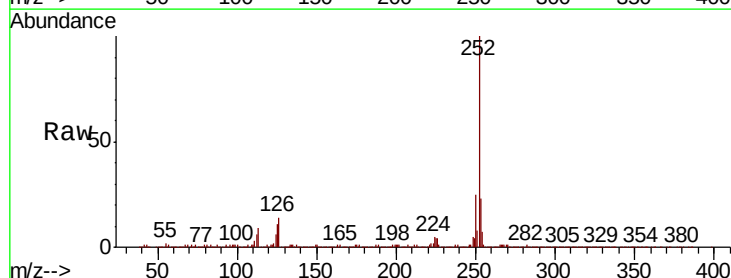
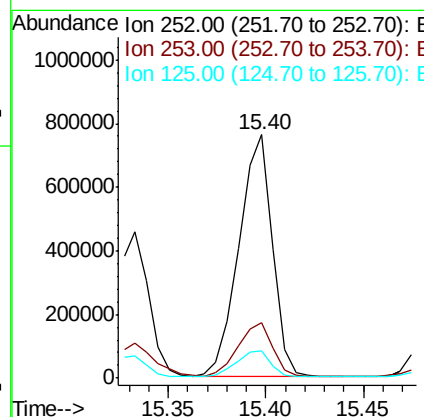
RT: 15.40 min Scan# 2263

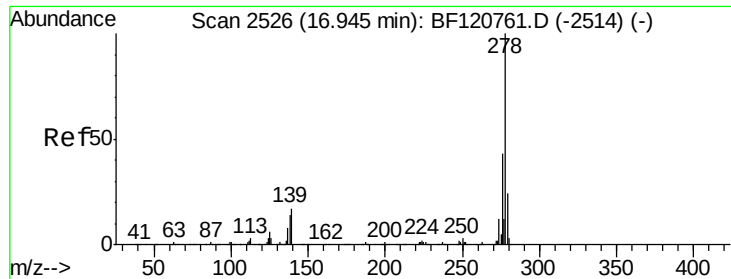
Delta R.T. 0.00 min

Lab File: BF120864.D

Acq: 14 Jul 2020 16:48

Tgt Ion:	252	Resp:	906376
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.4	26.0
125	11.1	9.2	13.8





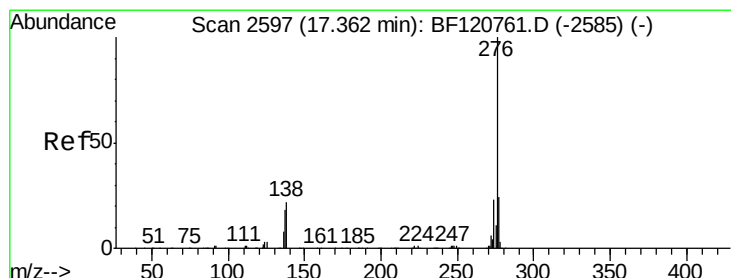
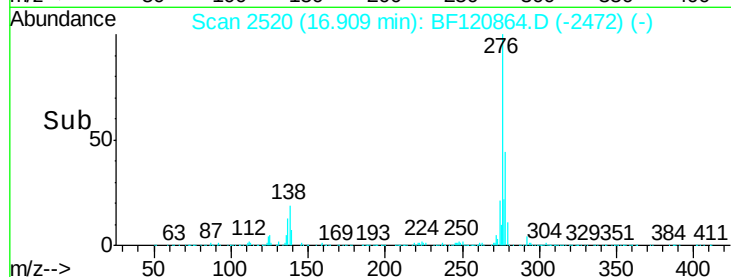
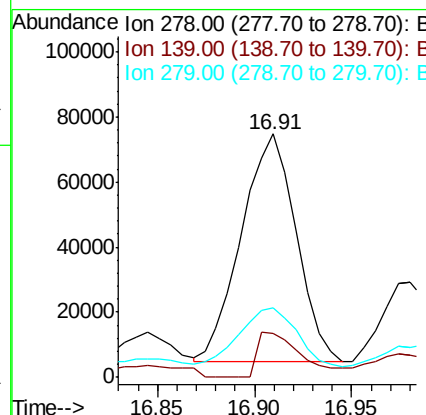
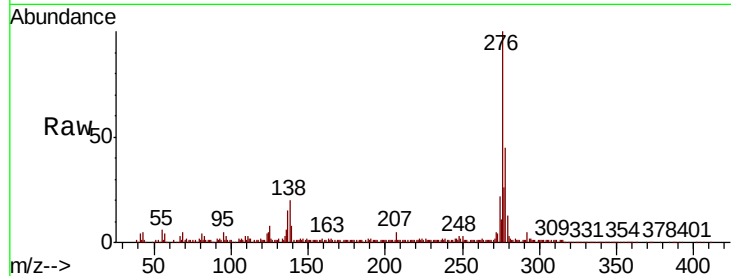
#91
Dibenzo(a,h)anthracene
Concen: 5.199 ng/mL
RT: 16.91 min Scan# 2520
Delta R.T. -0.02 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Instrument :
BNA_F
ClientSampleId :
CL-02-070920

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.9	13.3	19.9
279	28.6	19.0	28.6

Manual Integrations
APPROVED

mohammad
7/15/2020 10:59:50 AM



#92
Benzo(g,h,i)perylene
Concen: 18.455 ng/mL
RT: 17.33 min Scan# 2592
Delta R.T. -0.01 min
Lab File: BF120864.D
Acq: 14 Jul 2020 16:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	21.7	17.4	26.2

