

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
 Data File : BF112157.D
 Acq On : 21 Jan 2019 14:34
 Operator : JU/SJ
 Sample : K1009-03 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-011819-B

Manual Integrations
 APPROVED

Sohil
 1/22/2019 9:58:57 AM

Quant Time: Jan 21 16:41:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	283280	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1046142	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	429670	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	624871	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	581620	20.00	ng	0.00
87) Perylene-d12	15.50	264	456111	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	840660	53.86	ng	-0.01
7) Phenol-d6	6.49	99	1045495	53.54	ng	-0.01
23) Nitrobenzene-d5	7.41	82	632998	41.80	ng	-0.02
42) 2,4,6-Tribromophenol	10.68	330	206755	44.61	ng	-0.01
45) 2-Fluorobiphenyl	9.21	172	1213199	41.40	ng	0.00
79) Terphenyl-d14	12.96	244	904664	33.09	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	402168	8.452	ng	98
37) 2-Methylnaphthalene	8.85	142	701793	21.720	ng	99
38) 1-Methylnaphthalene	8.95	142	691222	22.260	ng	99
46) 1,1'-Biphenyl	9.31	154	74283	2.068	ng	99
49) Acenaphthylene	9.75	152	160317	3.906	ng	# 85
50) Dimethylphthalate	9.60	163	89489	2.856	ng	# 98
52) Acenaphthene	9.92	154	153964	6.132	ng	96
58) Fluorene	10.44	166	471385	16.615	ng	97
71) Phenanthrene	11.40	178	1774523	56.429	ng	99
72) Anthracene	11.45	178	396815	12.457	ng	99
75) Fluoranthene	12.59	202	1140684	34.355	ng	97
78) Pyrene	12.83	202	1798272	46.863	ng	99
81) Benzo(a)anthracene	14.01	228	715114	21.444	ng	# 94
83) Chrysene	14.05	228	772673m	24.486	ng	
86) Indeno(1,2,3-cd)pyrene	16.97	276	183234	6.294	ng	# 93
88) Benzo(b)fluoranthene	15.07	252	518648m	20.032	ng	
89) Benzo(k)fluoranthene	15.09	252	150260m	5.996	ng	
90) Benzo(a)pyrene	15.43	252	443283	18.670	ng	# 93
91) Dibenzo(a,h)anthracene	16.97	278	57080	2.707	ng	# 74
92) Benzo(a,h,i)perylene	17.42	276	197475	9.505	ng	96

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

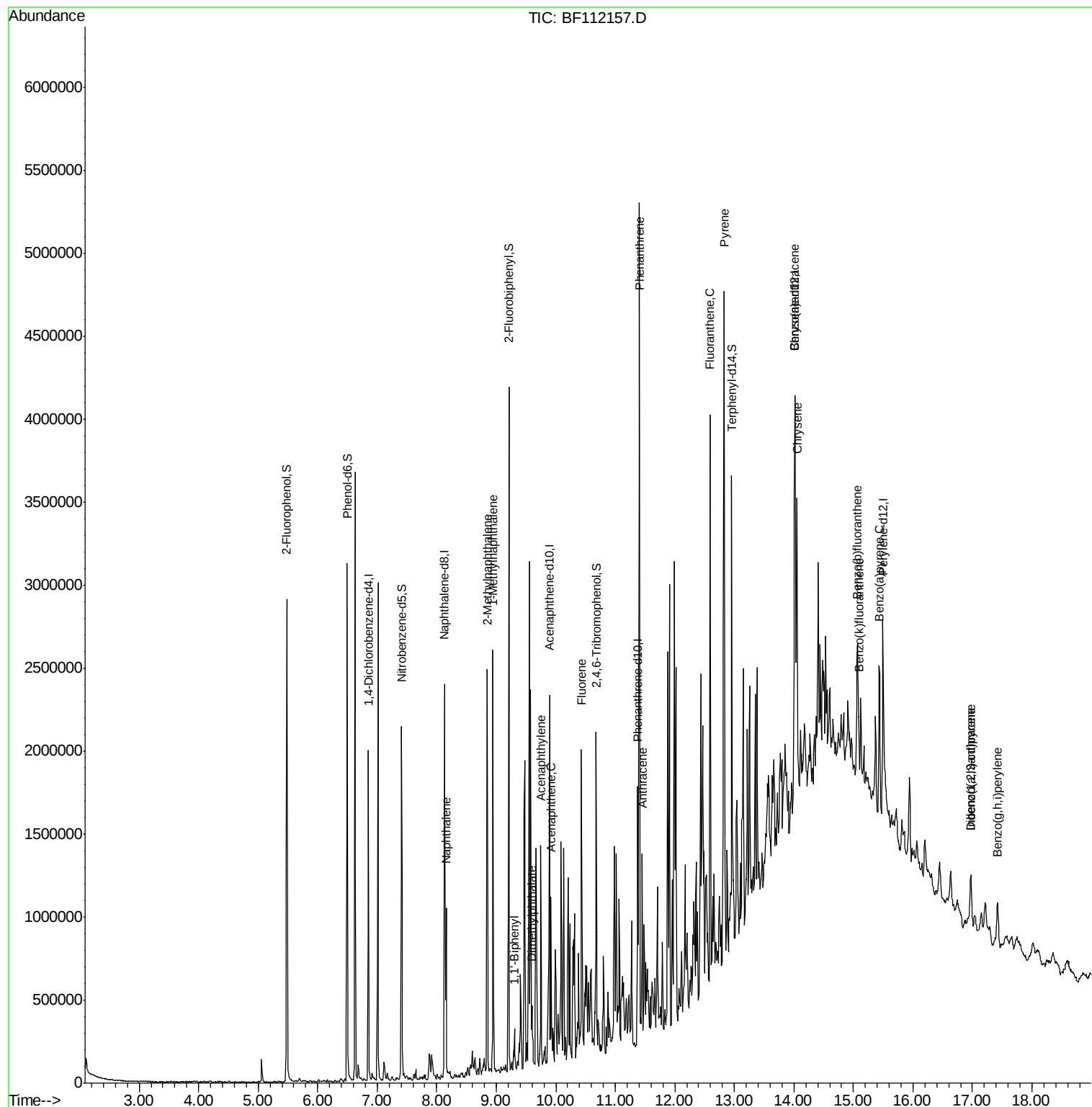
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

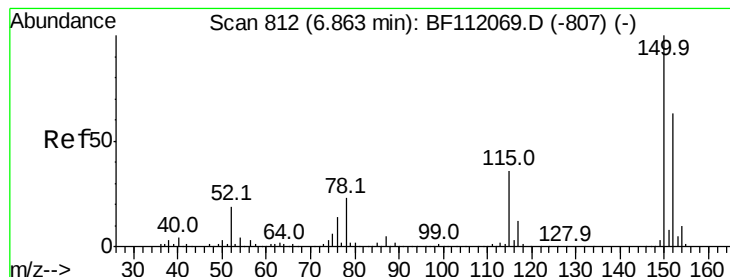
Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

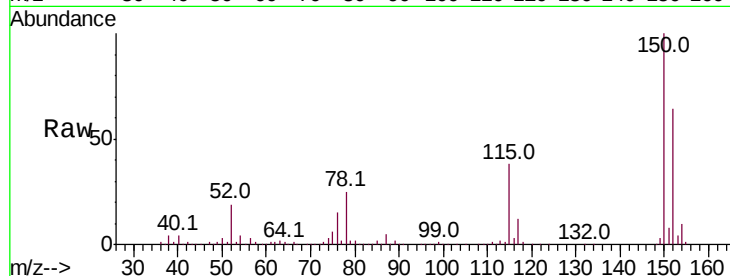
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.4	191.0
115	59.8	45.5	68.3

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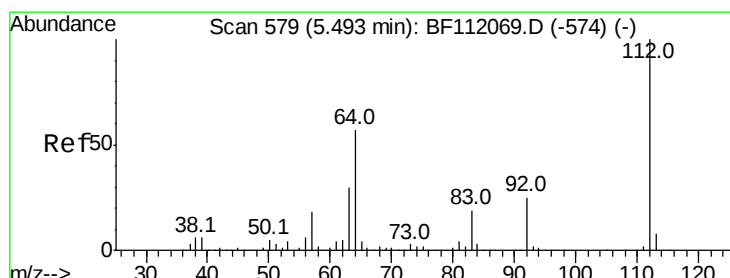
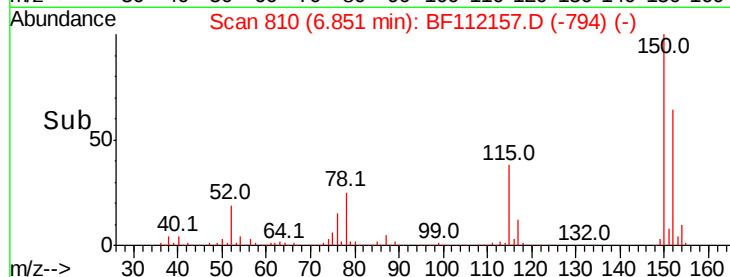
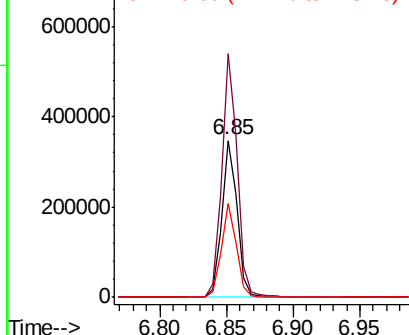


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

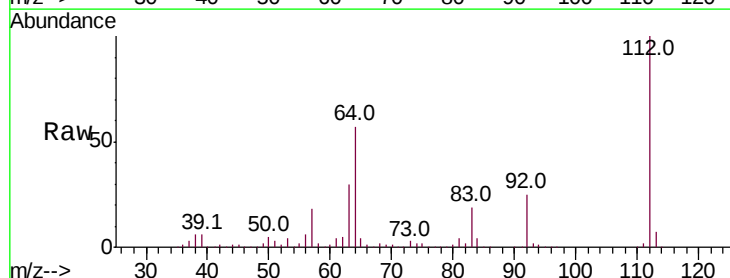
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 53.863 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	45.7	68.5
63	30.0	23.6	35.4

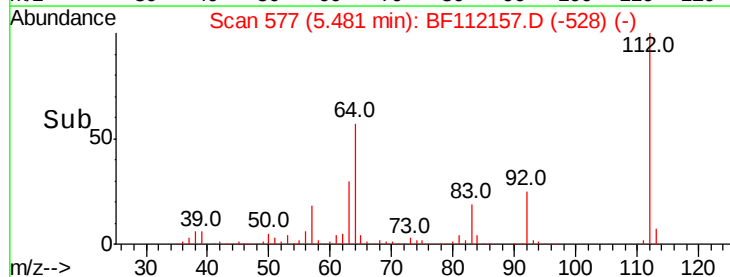
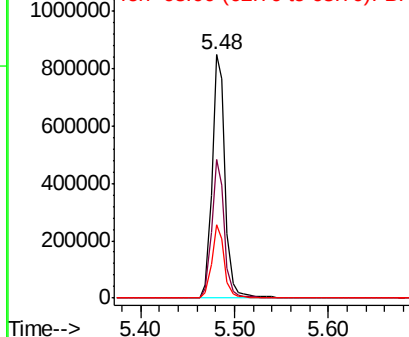


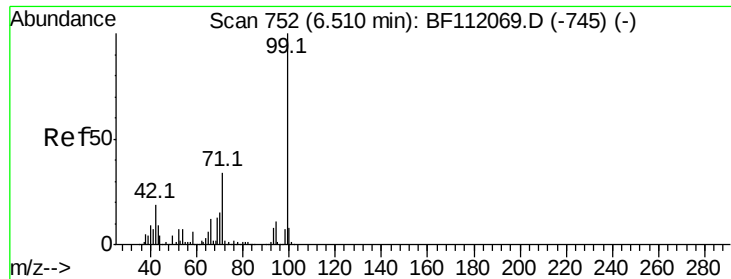
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 53.540 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-B

Tot Ion: 99 Resp: 1045495

Ion Ratio Lower Upper

99 100

42 18.8 15.1 22.7

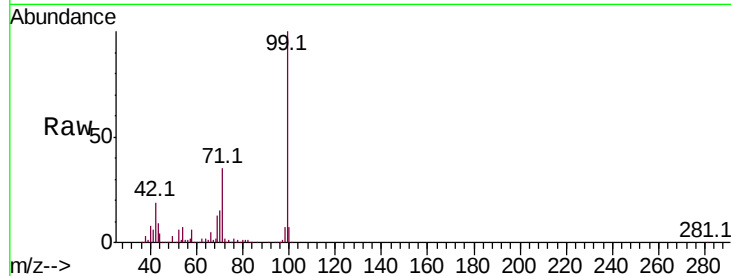
71 34.7 26.9 40.3

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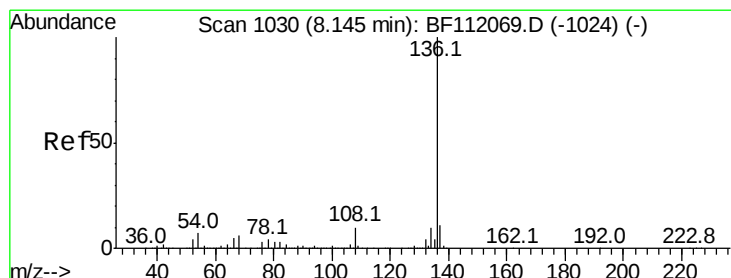
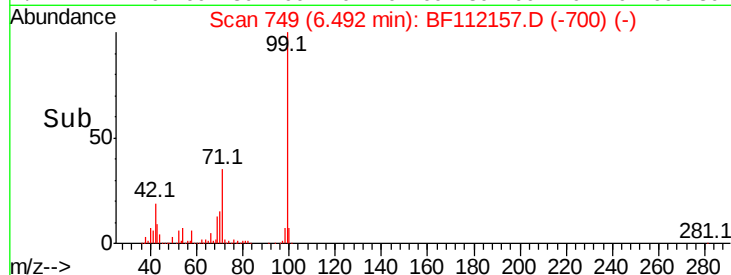
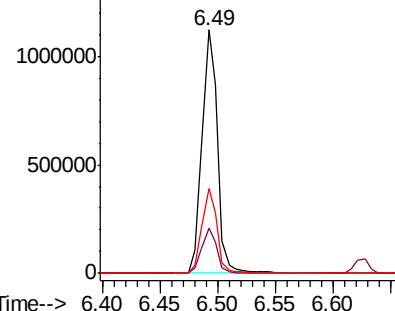
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion: 136 Resp: 1046142

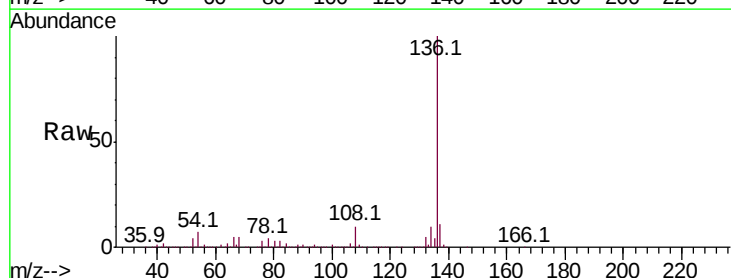
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 6.7 5.9 8.9

68 5.2 5.1 7.7

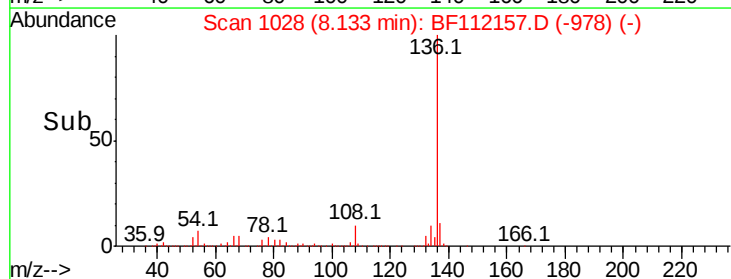
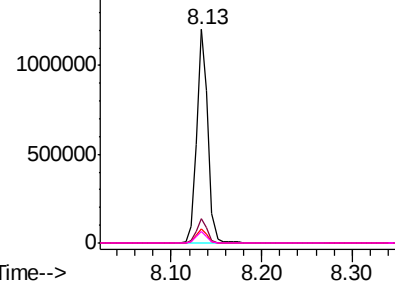


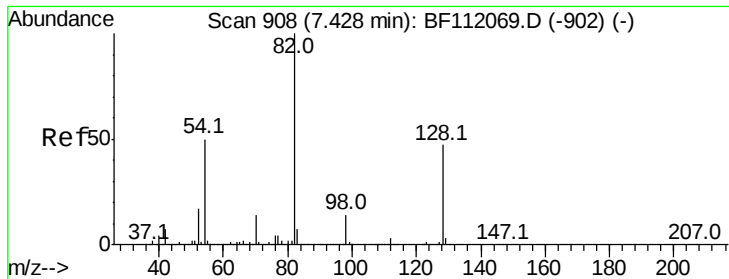
Abundance Ion 136.00 (135.70 to 136.70): E

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: 41.804 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

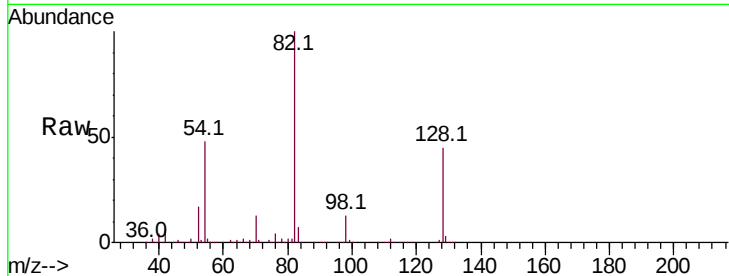
ClientSampleId :

CL-01-011819-B

Tot Ion:	82	Resp:	632998
Ion Ratio	Lower	Upper	
82	100		
128	45.3	37.8	56.8
54	47.7	39.7	59.5

Manual Integrations
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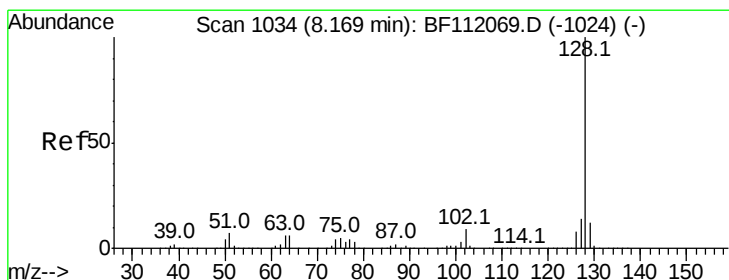
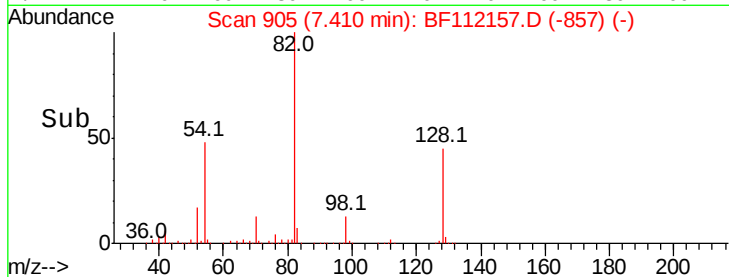
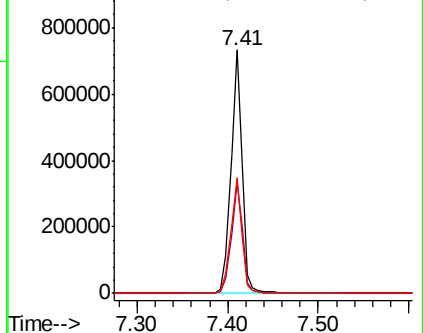
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Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 8.452 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF112157.D

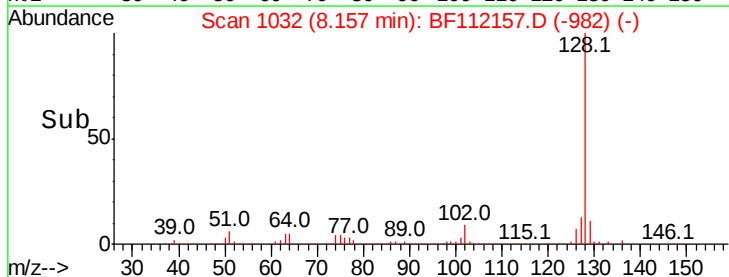
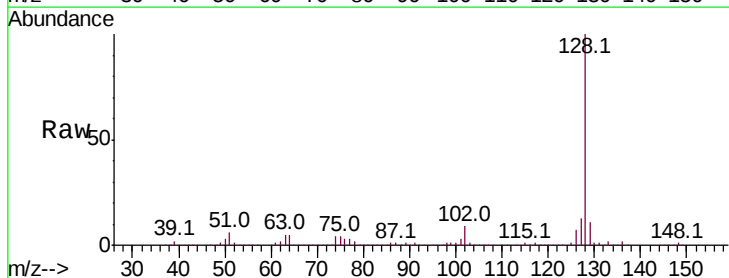
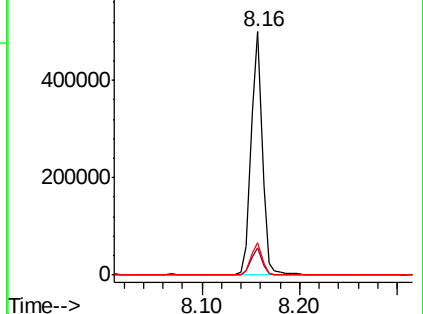
Acq: 21 Jan 2019 14:34

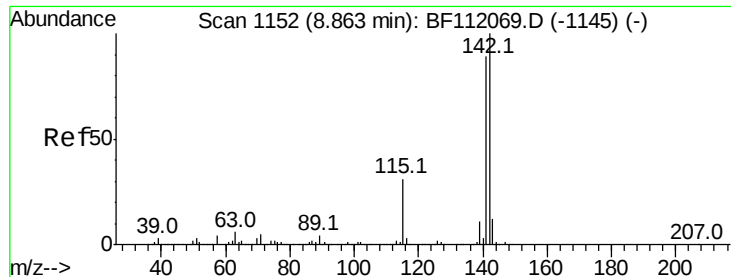
Tgt Ion:	128	Resp:	402168
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.6	14.4
127	13.1	11.1	16.7

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





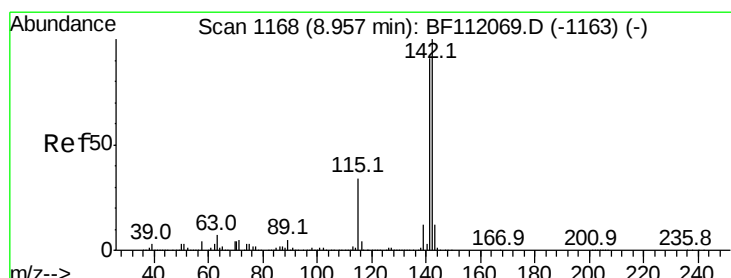
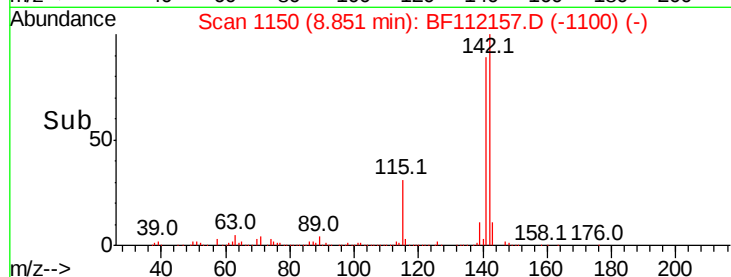
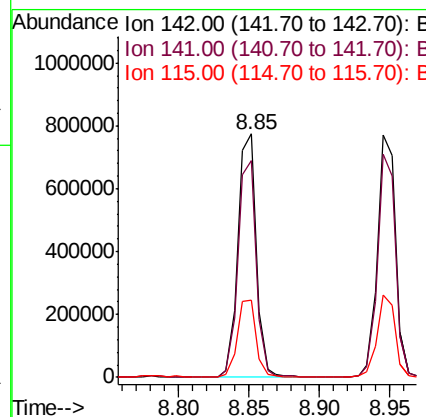
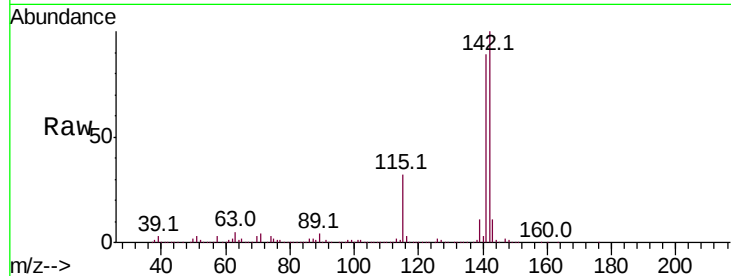
#37
2-Methylnaphthalene
Concen: 21.720 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100	701793		
141	89.1		70.9	106.3
115	31.7		24.9	37.3

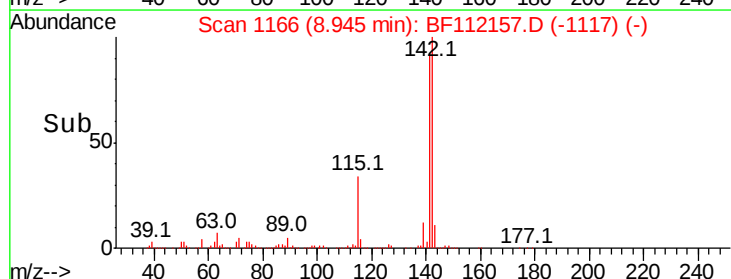
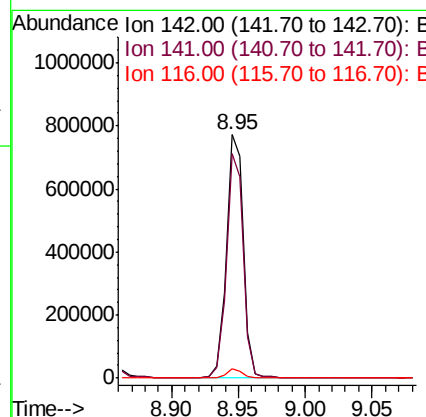
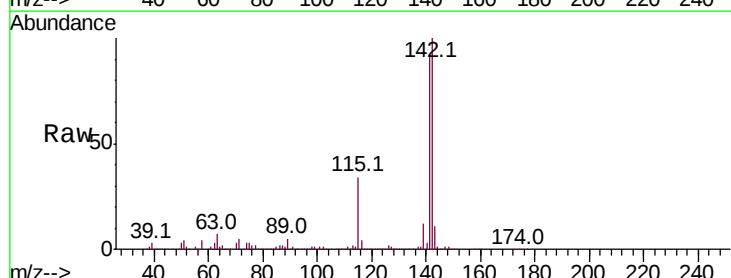
Manual Integrations
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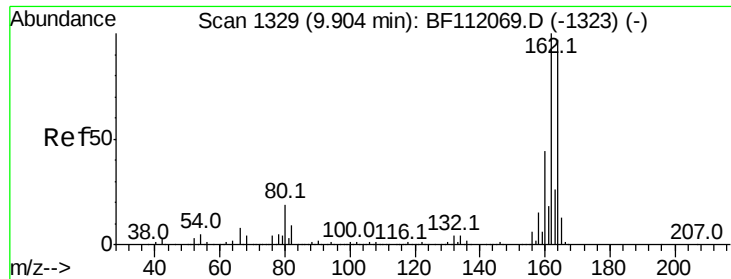
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#38
1-Methylnaphthalene
Concen: 22.260 ng
RT: 8.95 min Scan# 1166
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	691222		
141	91.9		72.6	108.8
116	3.7		2.8	4.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-B

Tot Ion:164 Resp: 429670

Ion Ratio Lower Upper

164 100

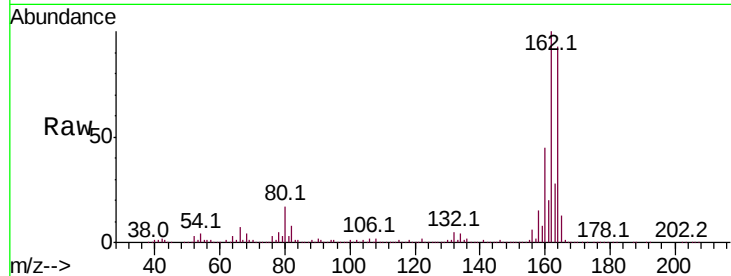
162 107.0 82.2 123.4

160 48.3 36.2 54.4

Manual Integrations
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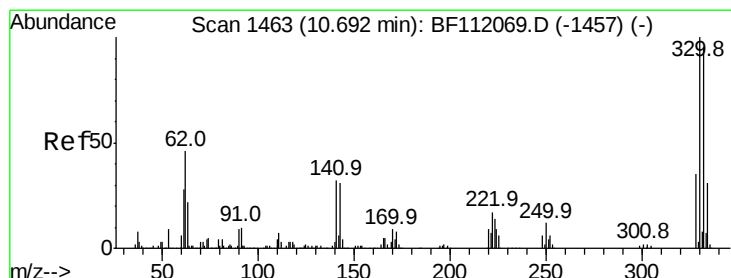
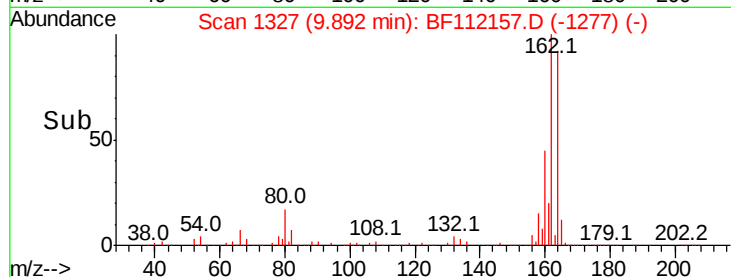
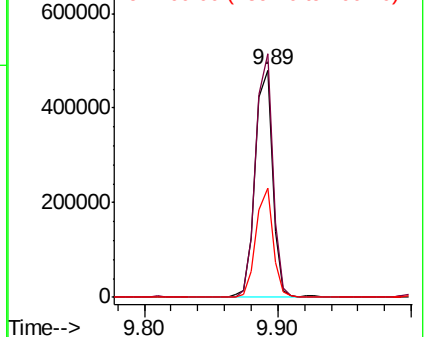
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 44.605 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

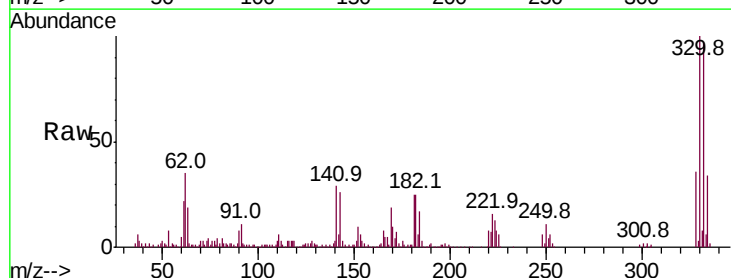
Tgt Ion:330 Resp: 206755

Ion Ratio Lower Upper

330 100

332 96.6 76.6 114.8

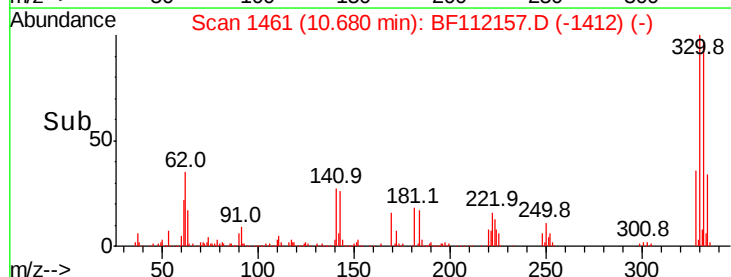
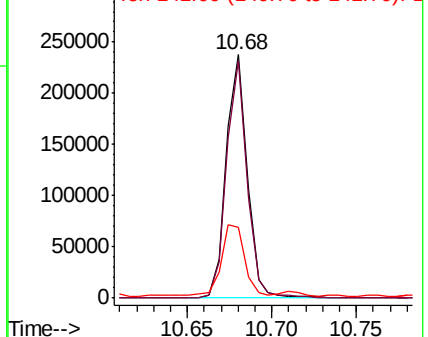
141 32.3 24.3 36.5

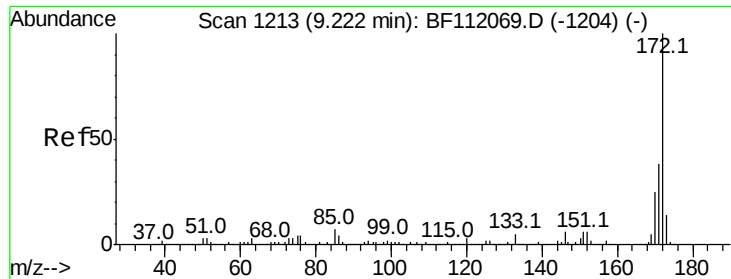


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





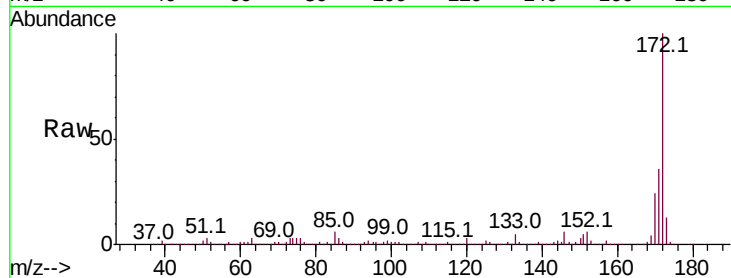
#45
 2-Fluorobiphenyl
 Concen: 41.397 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF112157.D
 Acq: 21 Jan 2019 14:34

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-011819-B

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.5	45.7
170	23.9	20.2	30.4

Manual Integrations
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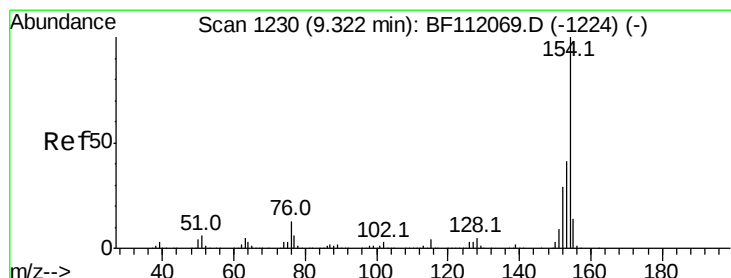
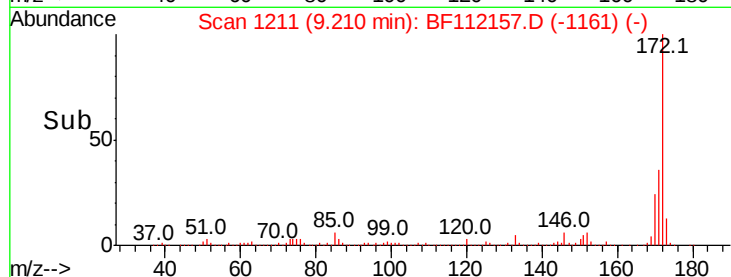
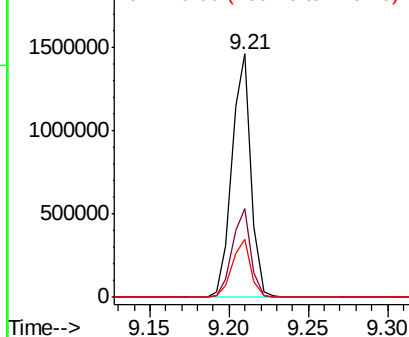


Abundance

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



#46
 1,1'-Biphenyl
 Concen: 2.068 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF112157.D
 Acq: 21 Jan 2019 14:34

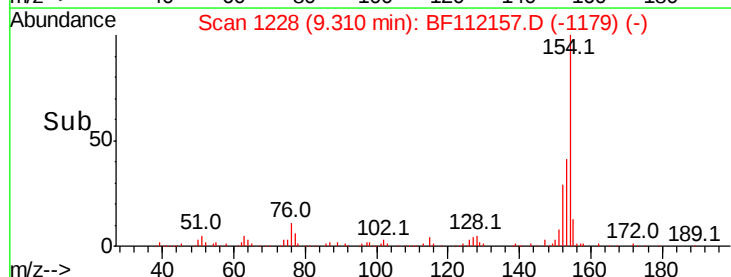
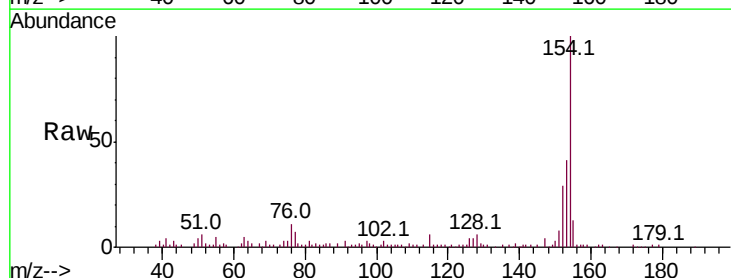
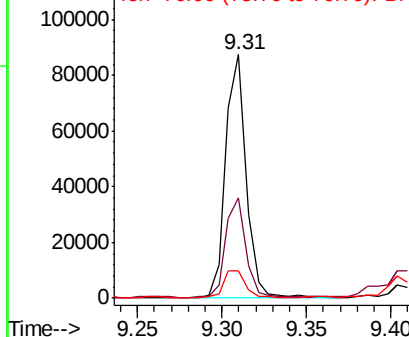
Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.5	61.5
76	11.2	0.0	33.1

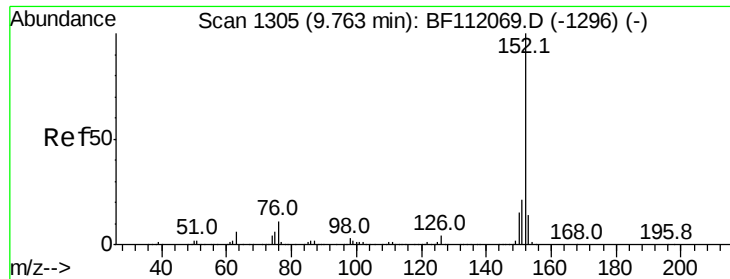
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





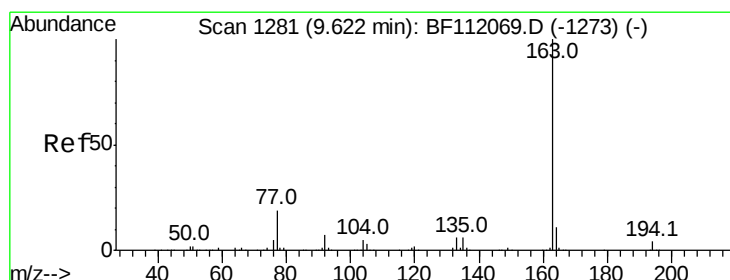
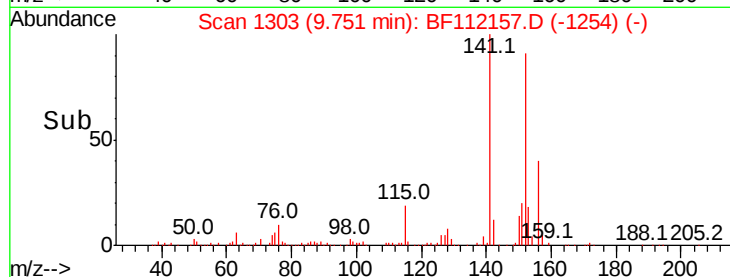
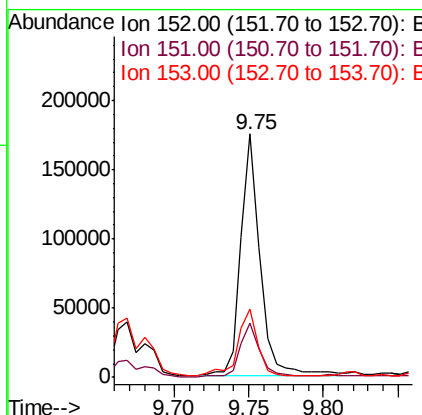
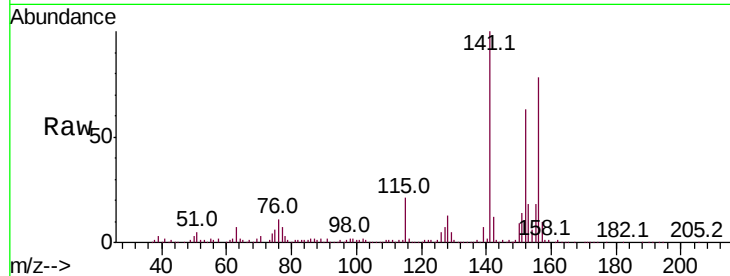
#49
Acenaphthylene
Concen: 3.906 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

Tot Ion	Ratio	Resp	Lower	Upper
152	100	160317		
151	22.3	17.0	25.6	
153	27.8	11.2	16.8	

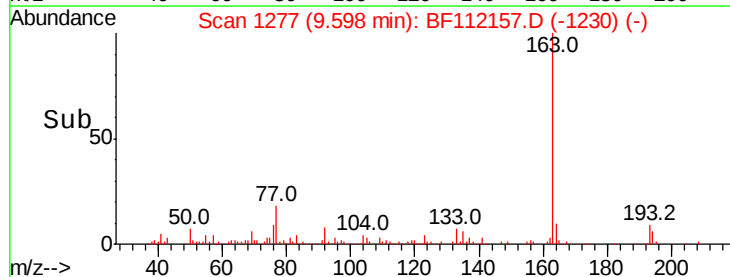
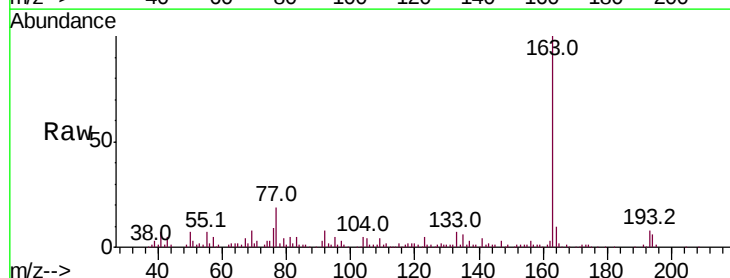
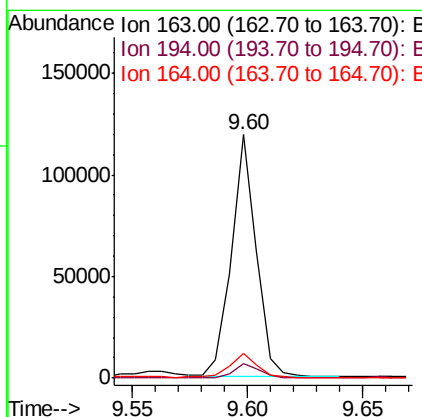
Manual Integrations
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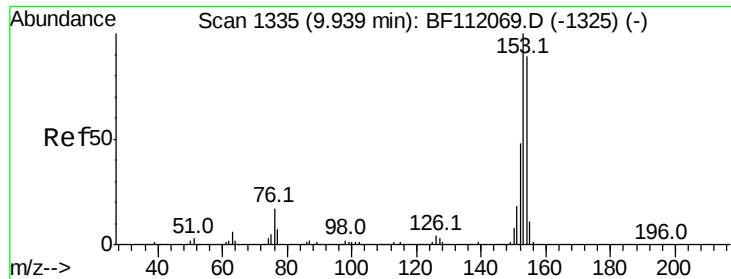
Sohil
1/22/2019 9:58:57 AM



#50
Dimethylphthalate
Concen: 2.856 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	89489		
194	5.7	3.3	4.9	
164	10.3	8.5	12.7	





#52

Acenaphthene

Concen: 6.132 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

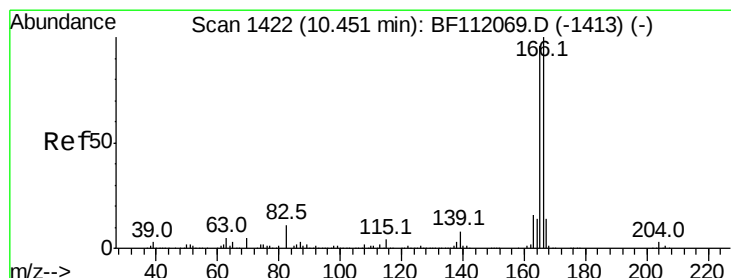
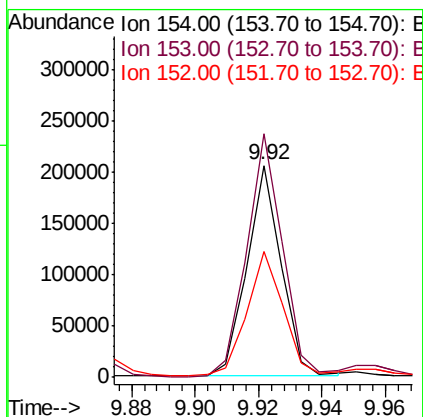
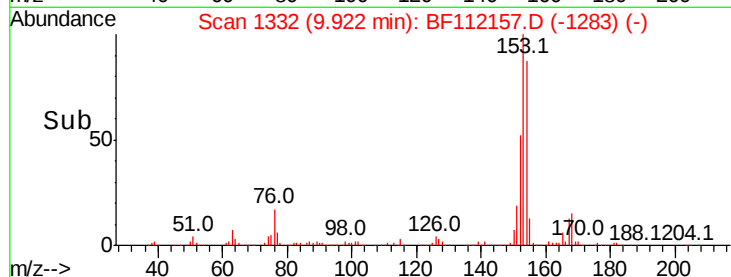
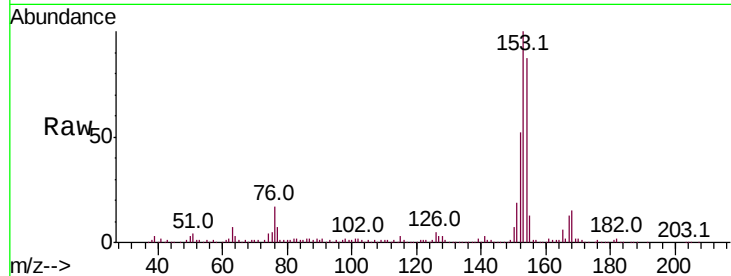
ClientSampleId :

CL-01-011819-B

Tot Ion:	154	Resp:	153964
Ion Ratio	Lower	Upper	
154	100		
153	114.9	89.8	134.6
152	59.5	43.5	65.3

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#58

Fluorene

Concen: 16.615 ng

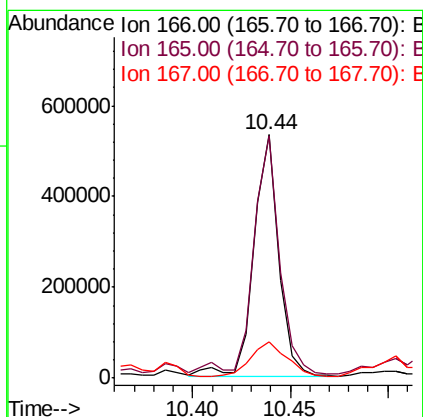
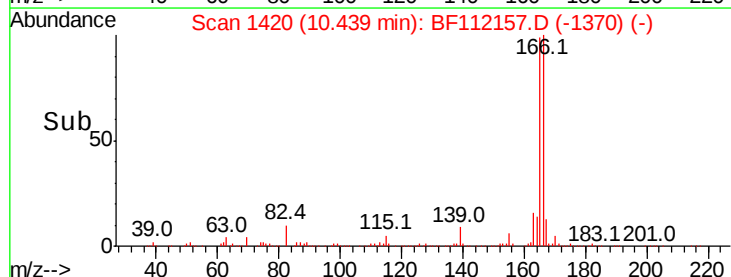
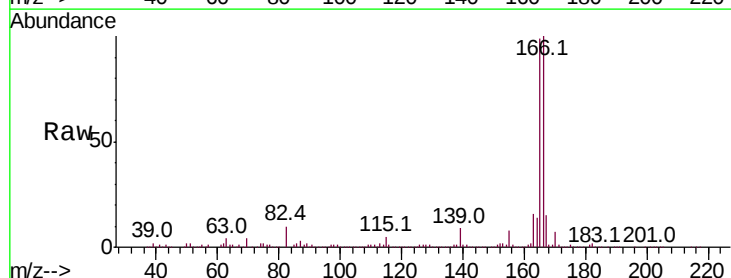
RT: 10.44 min Scan# 1420

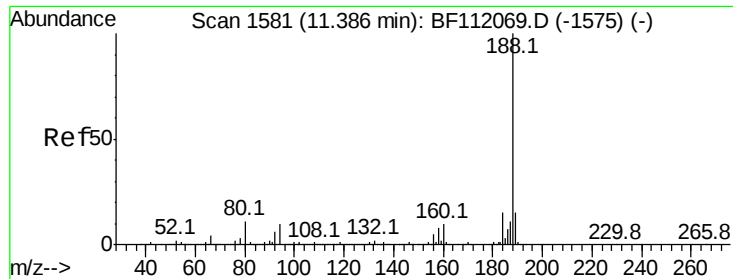
Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion:	166	Resp:	471385
Ion Ratio	Lower	Upper	
166	100		
165	99.3	77.1	115.7
167	15.1	11.3	16.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

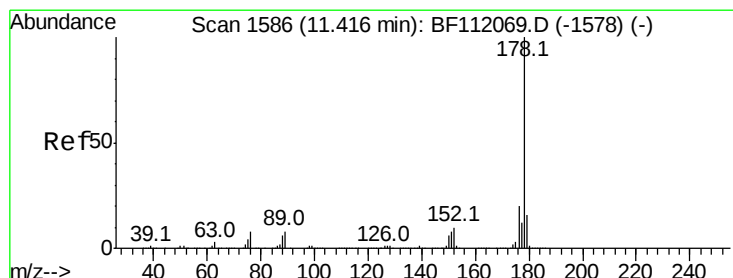
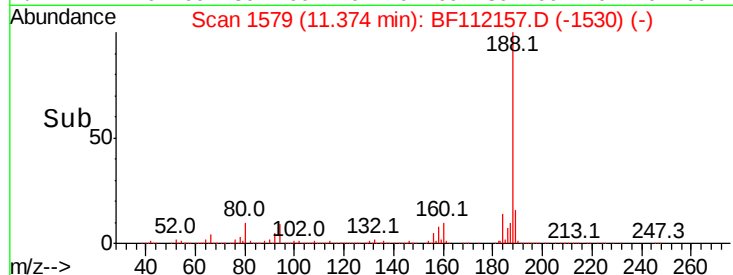
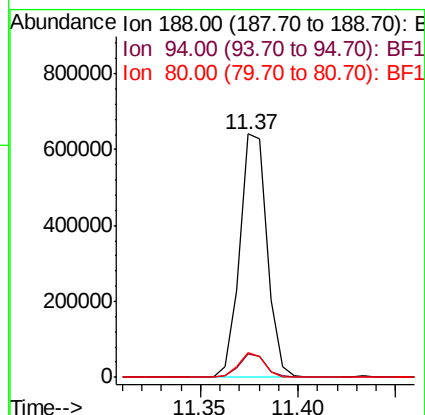
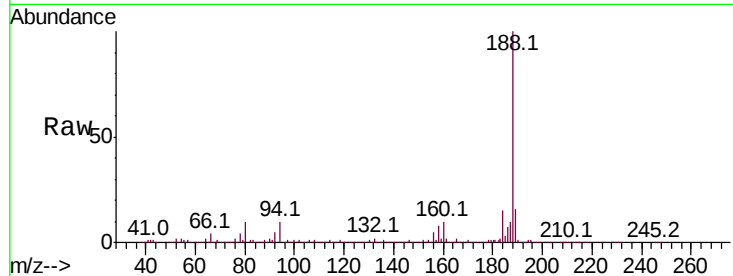
ClientSampleId :

CL-01-011819-B

Tot Ion:188	Resp: 624871
Ion Ratio	Lower Upper
188 100	
94 9.6	8.2 12.2
80 10.1	8.9 13.3

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#71

Phenanthrene

Concen: 56.429 ng

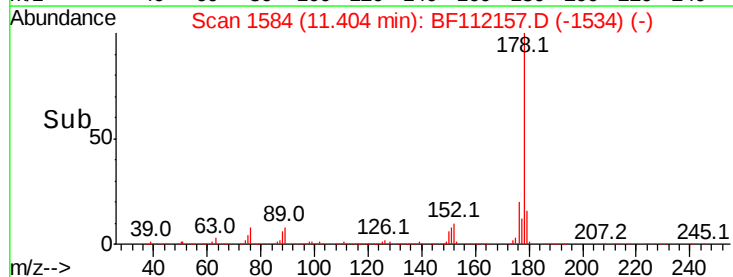
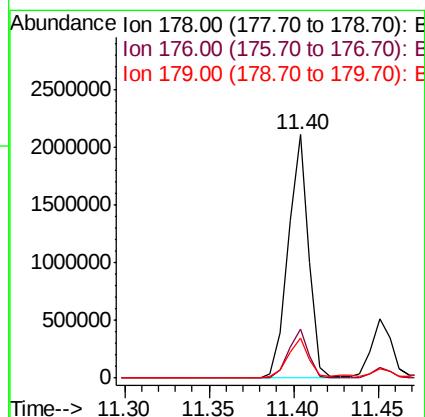
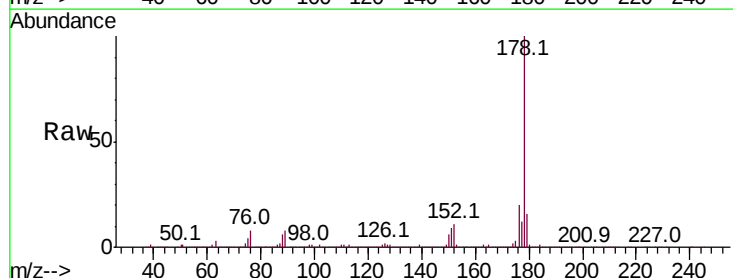
RT: 11.40 min Scan# 1584

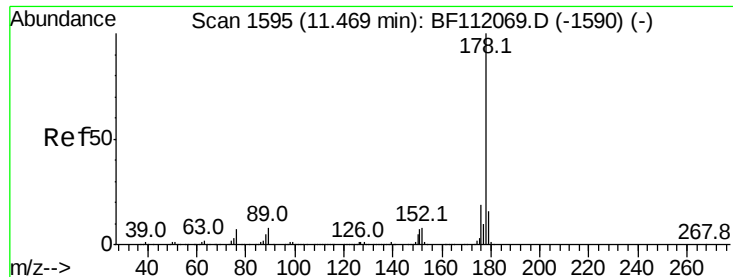
Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion:178	Resp: 1774523
Ion Ratio	Lower Upper
178 100	
176 20.1	16.3 24.5
179 16.5	13.0 19.4





#72

Anthracene

Concen: 12.457 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

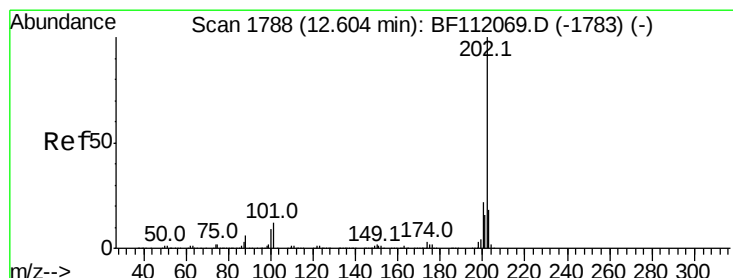
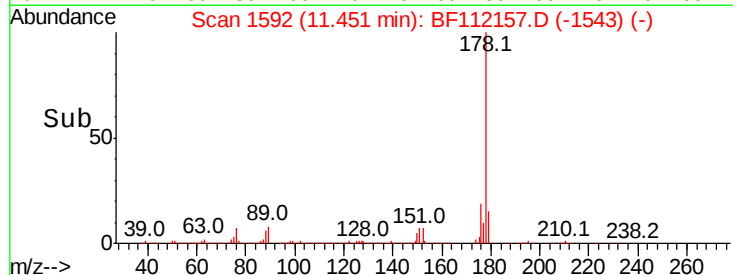
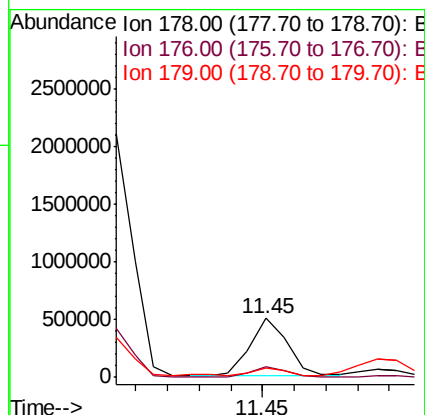
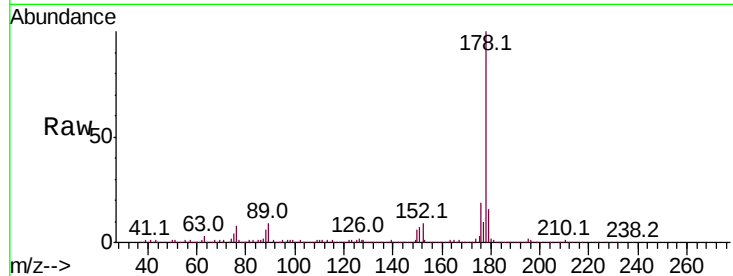
ClientSampleId :

CL-01-011819-B

Tot Ion:	178	Resp:	396815
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.5	23.3
179	16.1	12.8	19.2

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#75

Fluoranthene

Concen: 34.355 ng

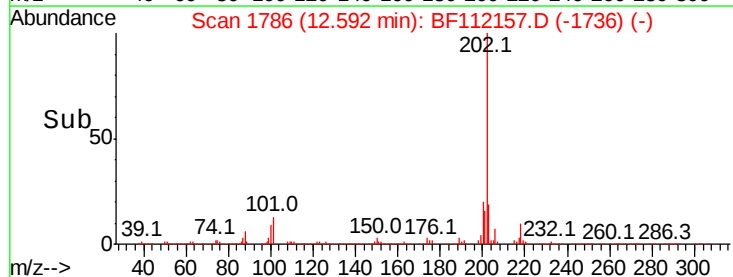
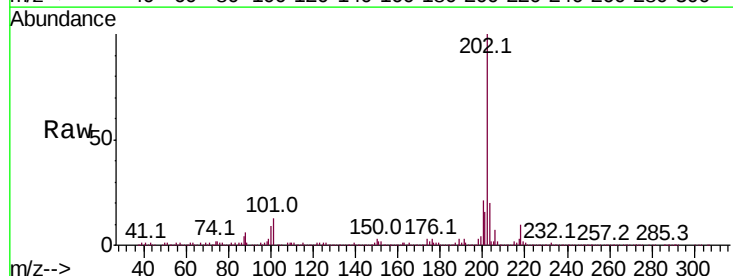
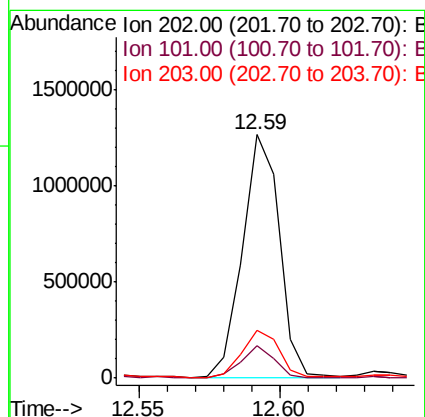
RT: 12.59 min Scan# 1786

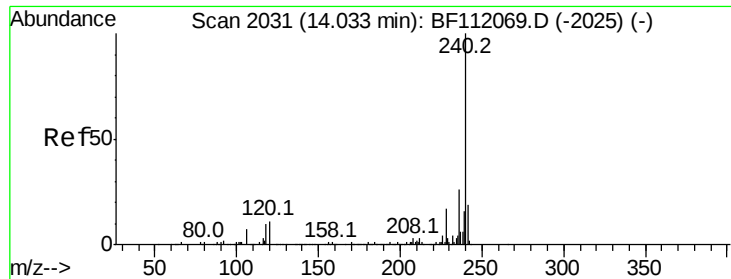
Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion:	202	Resp:	1140684
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	31.8
203	19.6	0.0	38.4





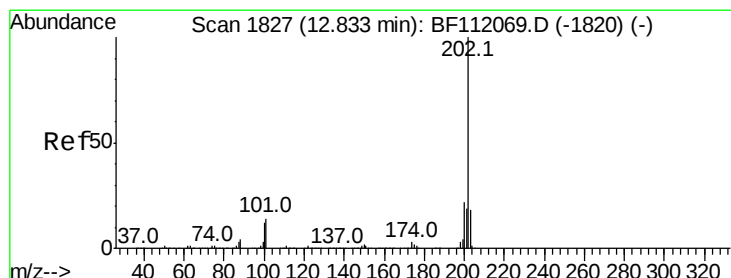
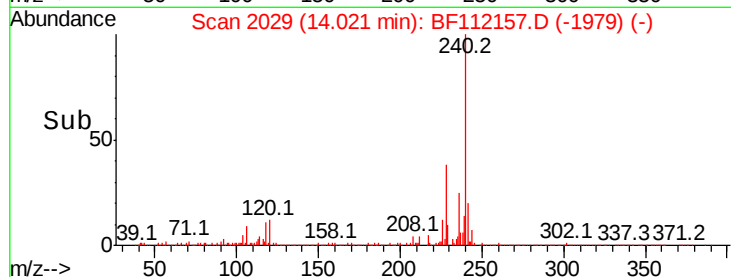
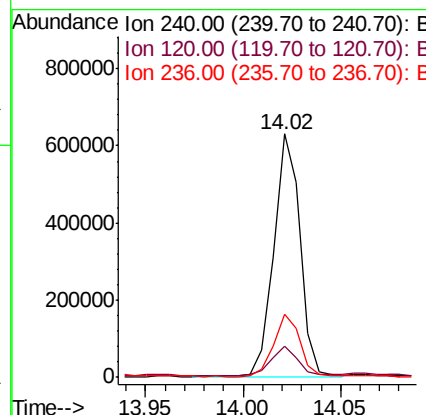
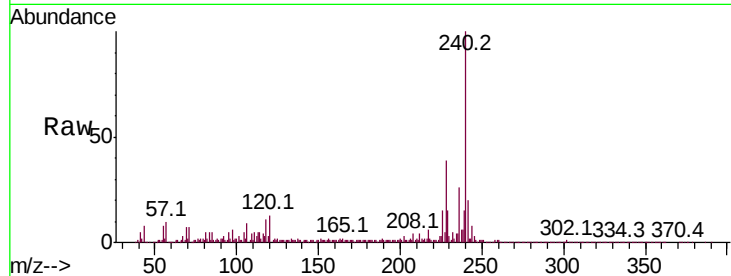
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	13.0	9.0	13.6	
236	26.1	20.7	31.1	

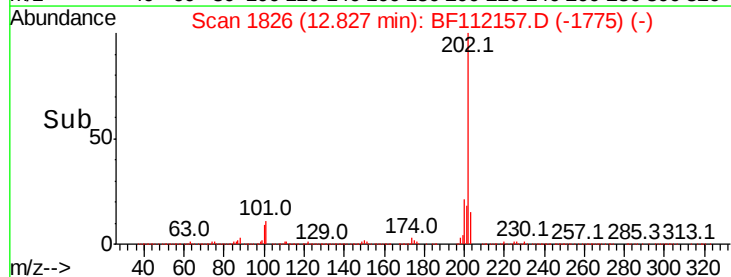
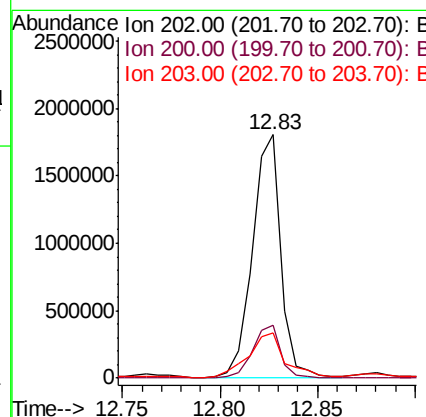
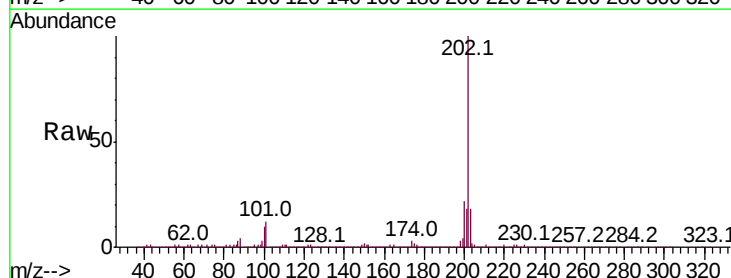
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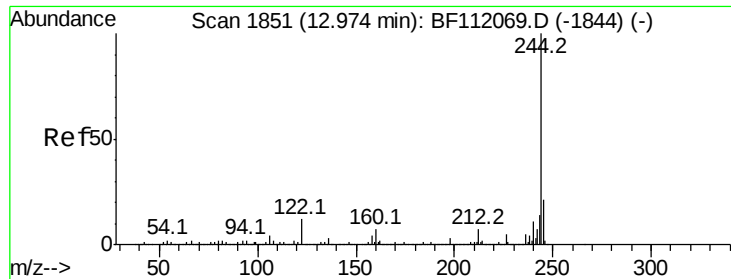
Sohil
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#78
Pyrene
Concen: 46.863 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.7	17.7	26.5	
203	18.4	14.6	22.0	





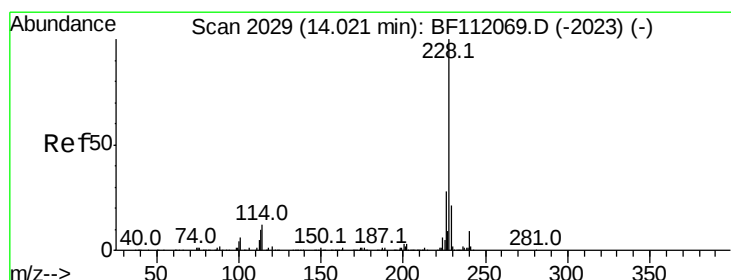
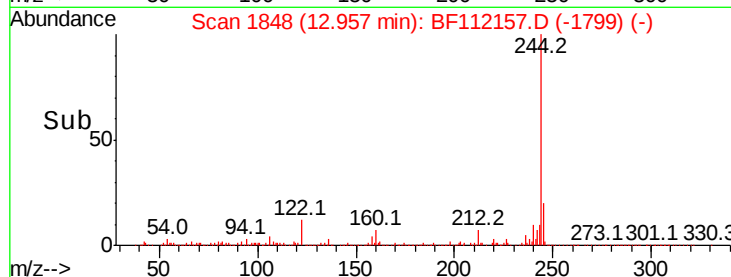
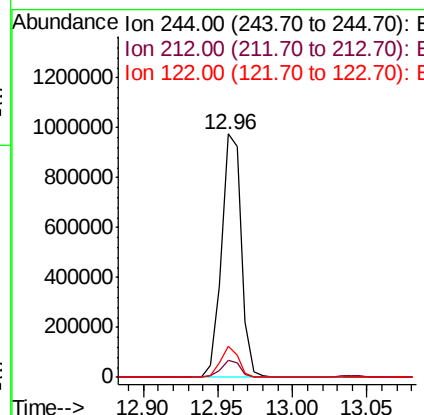
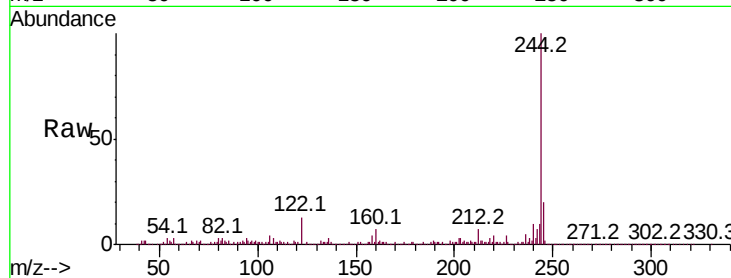
#79
 Terphenyl-d14
 Concen: 33.090 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.01 min
 Lab File: BF112157.D
 Acq: 21 Jan 2019 14:34

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-011819-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	12.6	9.8	14.6

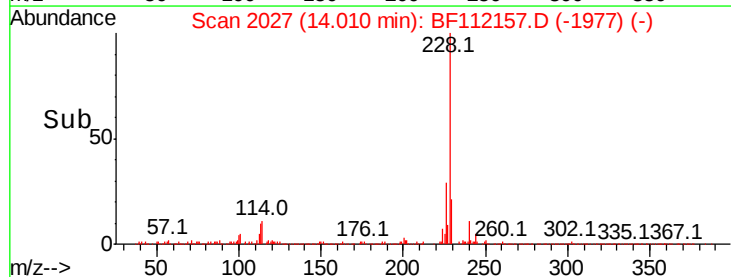
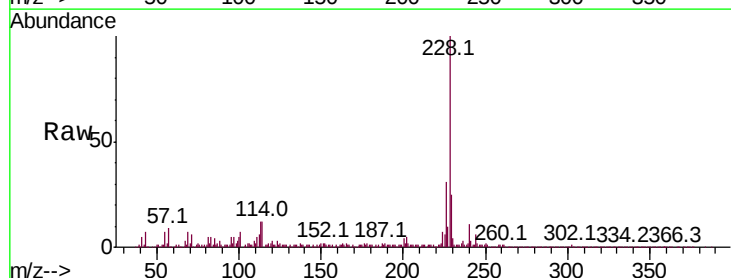
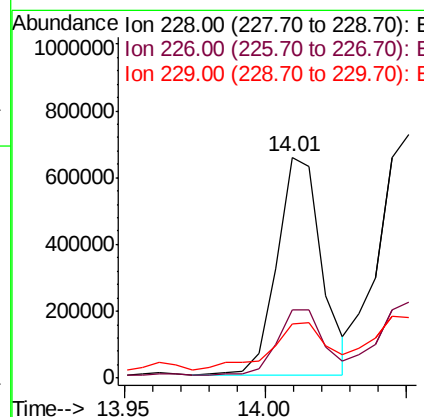
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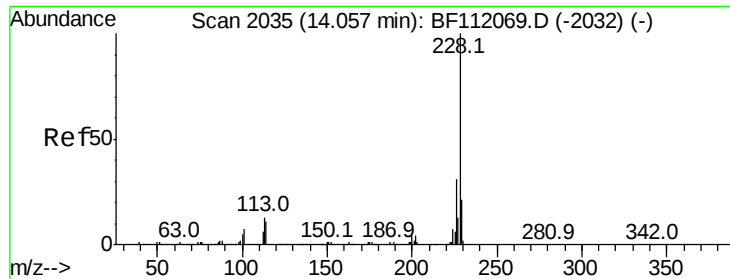
Sohil
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#81
 Benzo(a)anthracene
 Concen: 21.444 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: BF112157.D
 Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.6	34.0
229	24.8	16.5	24.7#





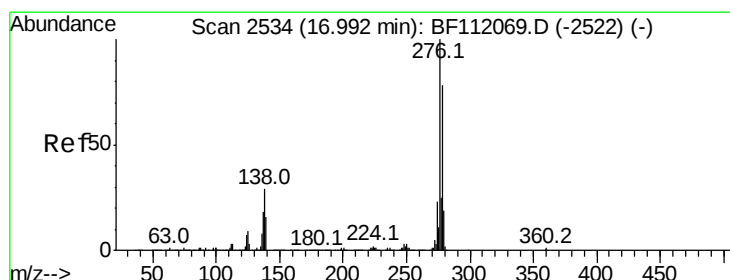
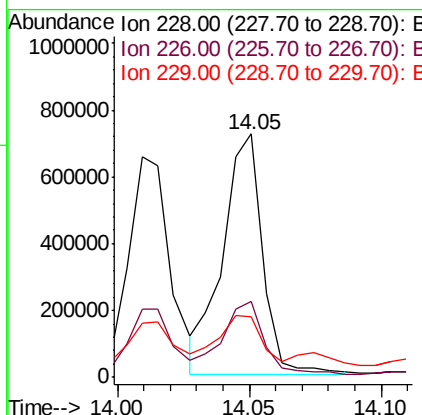
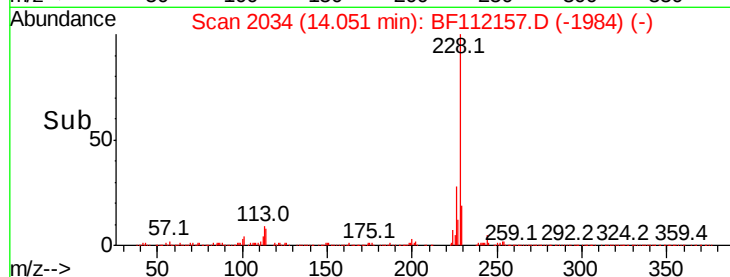
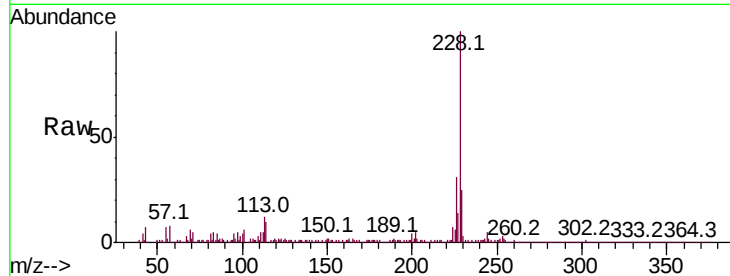
#83
Chrysene
Concen: 24.486 ng m
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	24.9	16.6	24.8

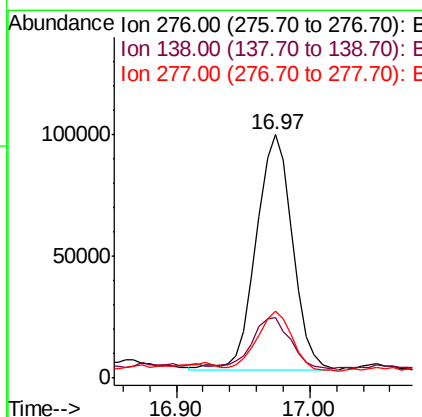
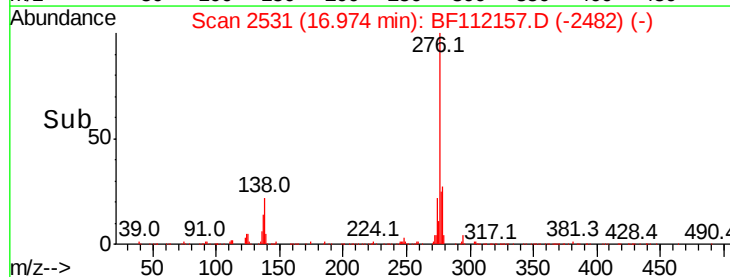
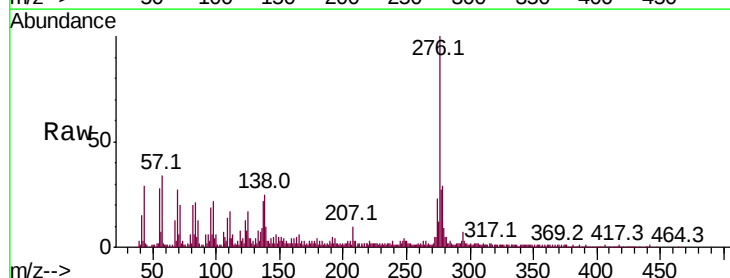
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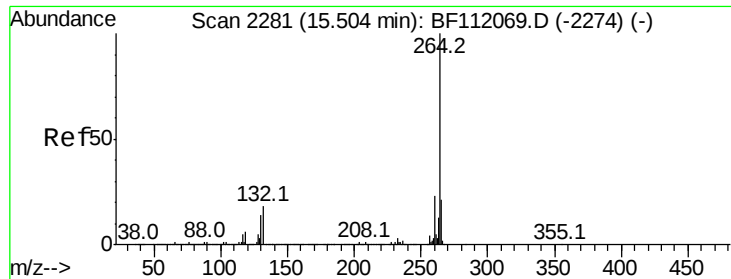
Sohil
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#86
Indeno(1,2,3-cd)pyrene
Concen: 6.294 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.4	22.6	34.0
277	24.3	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

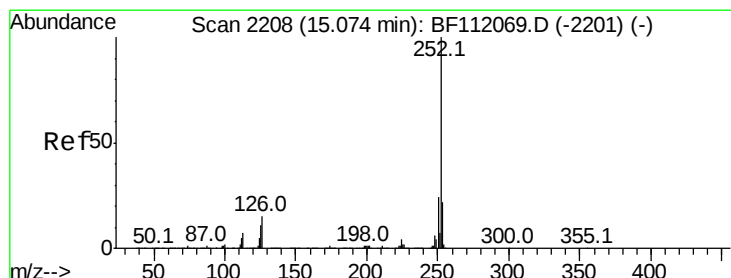
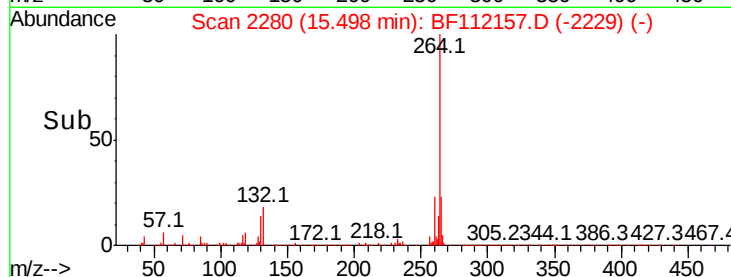
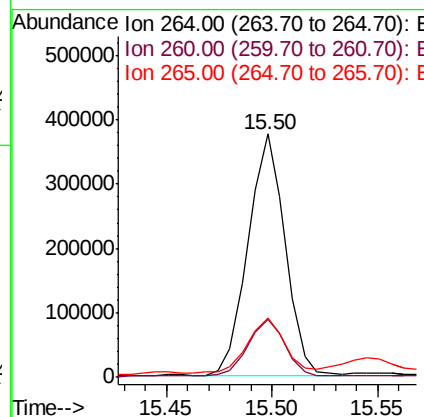
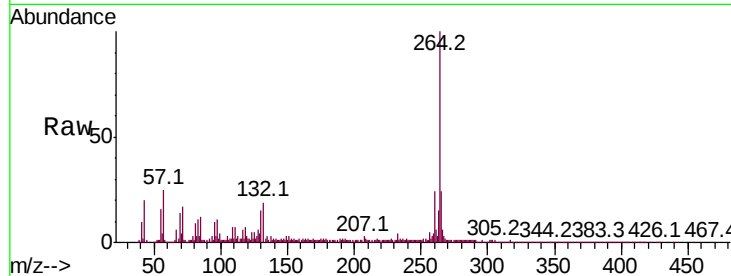
ClientSampled :

CL-01-011819-B

Tot Ion:	264	Resp:	456111
Ion Ratio	Lower	Upper	
264	100		
260	23.8	18.2	27.2
265	24.1	17.0	25.4

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#88

Benzo(b)fluoranthene

Concen: 20.032 ng m

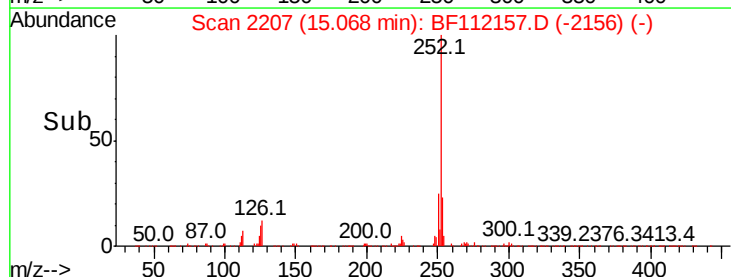
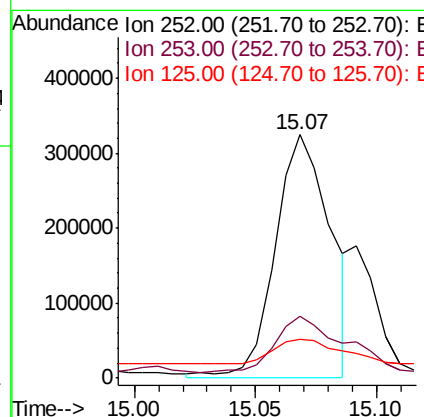
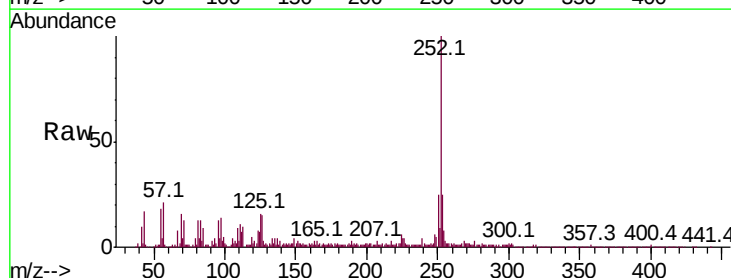
RT: 15.07 min Scan# 2207

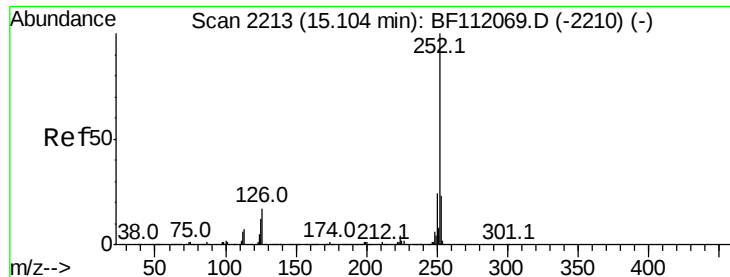
Delta R.T. 0.00 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion:	252	Resp:	518648
Ion Ratio	Lower	Upper	
252	100		
253	25.4	18.0	27.0
125	16.0	8.7	13.1#





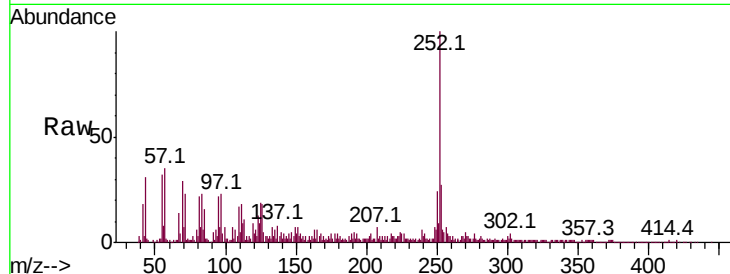
#89
Benzo(k)fluoranthene
Concen: 5.996 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-B

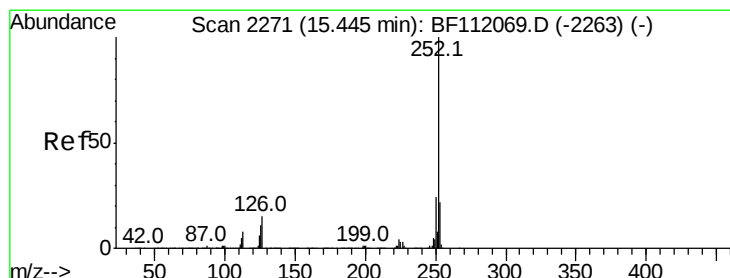
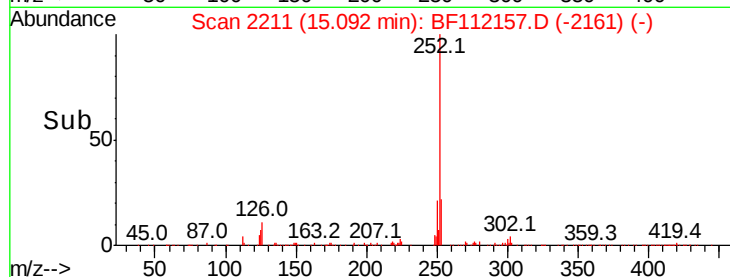
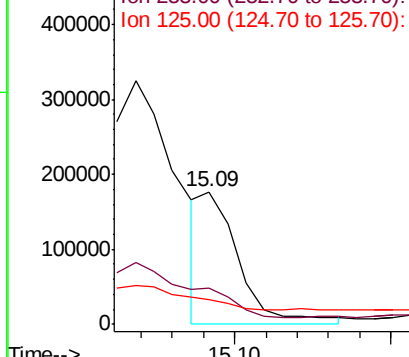
Tot Ion	Ratio	Lower	Upper
252	100		
253	27.2	18.0	27.0#
125	18.8	9.1	13.7#

Manual Integrations
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Sohil
1/22/2019 9:58:57 AM



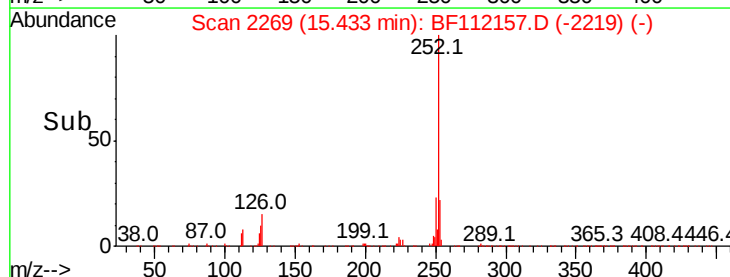
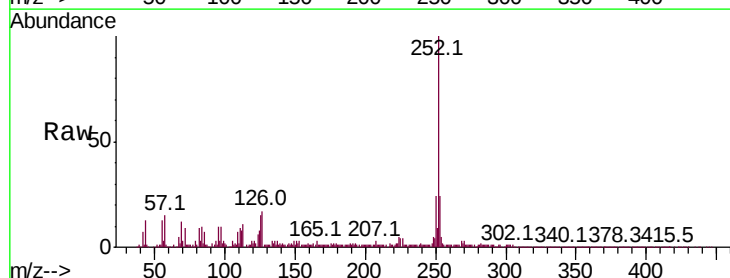
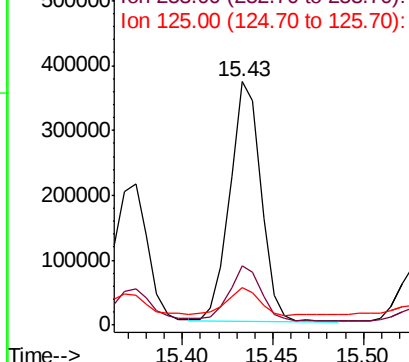
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

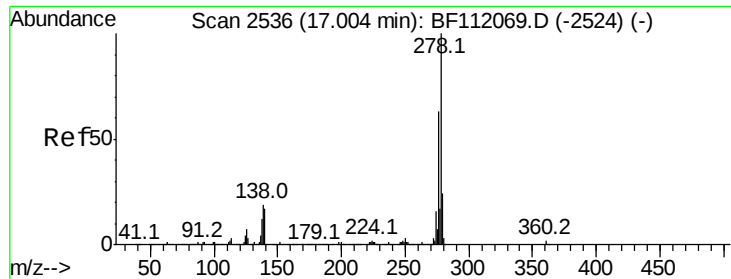


#90
Benzo(a)pyrene
Concen: 18.670 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF112157.D
Acq: 21 Jan 2019 14:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	15.2	9.0	13.4#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 2.707 ng

RT: 16.97 min Scan# 2531

Delta R.T. -0.02 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Instrument :

BNA_F

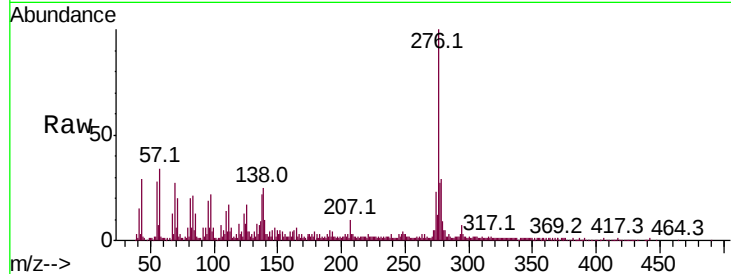
ClientSampleId :

CL-01-011819-B

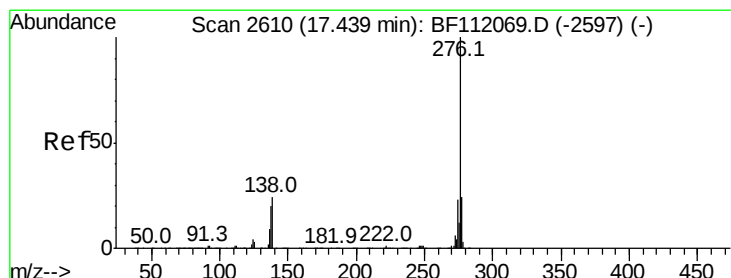
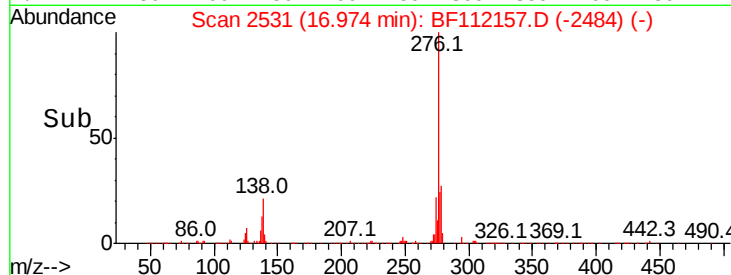
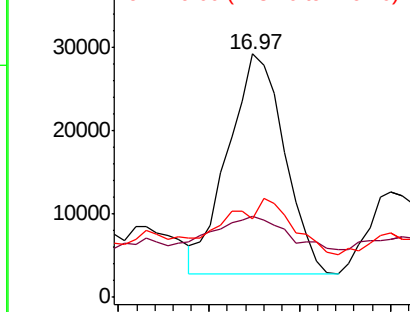
Tot Ion:	278	Resp:	57080
Ion Ratio	Lower	Upper	
278	100		
139	33.4	13.7	20.5#
279	32.2	19.0	28.6#

Manual Integrations
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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 9.505 ng

RT: 17.42 min Scan# 2607

Delta R.T. -0.01 min

Lab File: BF112157.D

Acq: 21 Jan 2019 14:34

Tgt Ion:	276	Resp:	197475
Ion Ratio	Lower	Upper	
276	100		
277	26.0	19.4	29.0
138	26.1	19.1	28.7

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

