

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022718\
 Data File : BF103275.D
 Acq On : 27 Feb 2018 20:41
 Operator : SJ/JU
 Sample : J1698-01 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B1

Manual Integrations
 APPROVED

Sohil
 2/28/2018 11:17:57 AM

Quant Time: Feb 28 01:09:39 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 17:05:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	155988	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	619648	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	240949	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	347730	20.00	ng	0.00
75) Chrysene-d12	14.07	240	199487	20.00	ng	0.01
86) Perylene-d12	15.57	264	188026	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	115368	11.19	ng	0.00
7) Phenol-d6	6.50	99	145729	11.55	ng	0.00
23) Nitrobenzene-d5	7.43	82	84646	7.80	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	16767	8.22	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	149569	6.55	ng	0.00
78) Terphenyl-d14	12.99	244	83966	10.12	ng	0.00
Target Compounds						Qvalue
18) Hexachloroethane	7.40	117	10550	2.361	ng	# 51
31) Naphthalene	8.18	128	228373	7.528	ng	98
37) 2-Methylnaphthalene	8.87	142	737872	37.635	ng	98
45) 1,1'-Biphenyl	9.33	154	166717	8.257	ng	97
48) Acenaphthylene	9.78	152	223670	9.101	ng	# 85
51) Acenaphthene	9.95	154	304689	21.261	ng	98
54) Dibenzofuran	10.12	168	106756	5.427	ng	# 51
55) 4-Nitrophenol	10.06	139	11187	3.507	ng	# 51
57) Fluorene	10.47	166	673938	40.215	ng	# 99
65) n-Nitrosodiphenylamine	10.57	169	107371	8.868	ng	98
70) Phenanthrene	11.45	178	2478783	129.531	ng	99
71) Anthracene	11.49	178	765054	38.987	ng	99
74) Fluoranthene	12.64	202	1394398	72.511	ng	100
77) Pyrene	12.87	202	2056743	132.239	ng	98
80) Benzo(a)anthracene	14.06	228	804527m	62.157	ng	
82) Chrysene	14.10	228	863787m	68.730	ng	
85) Indeno(1,2,3-cd)pyrene	17.09	276	218558	21.966	ng	97
87) Benzo(b)fluoranthene	15.13	252	521521m	42.186	ng	
88) Benzo(k)fluoranthene	15.15	252	186568m	16.026	ng	
89) Benzo(a)pyrene	15.51	252	544580	49.329	ng	96
90) Dibenzo(a,h)anthracene	17.09	278	73534	8.620	ng	# 83
91) Benzo(g,h,i)perylene	17.56	276	269560	32.332	ng	96

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

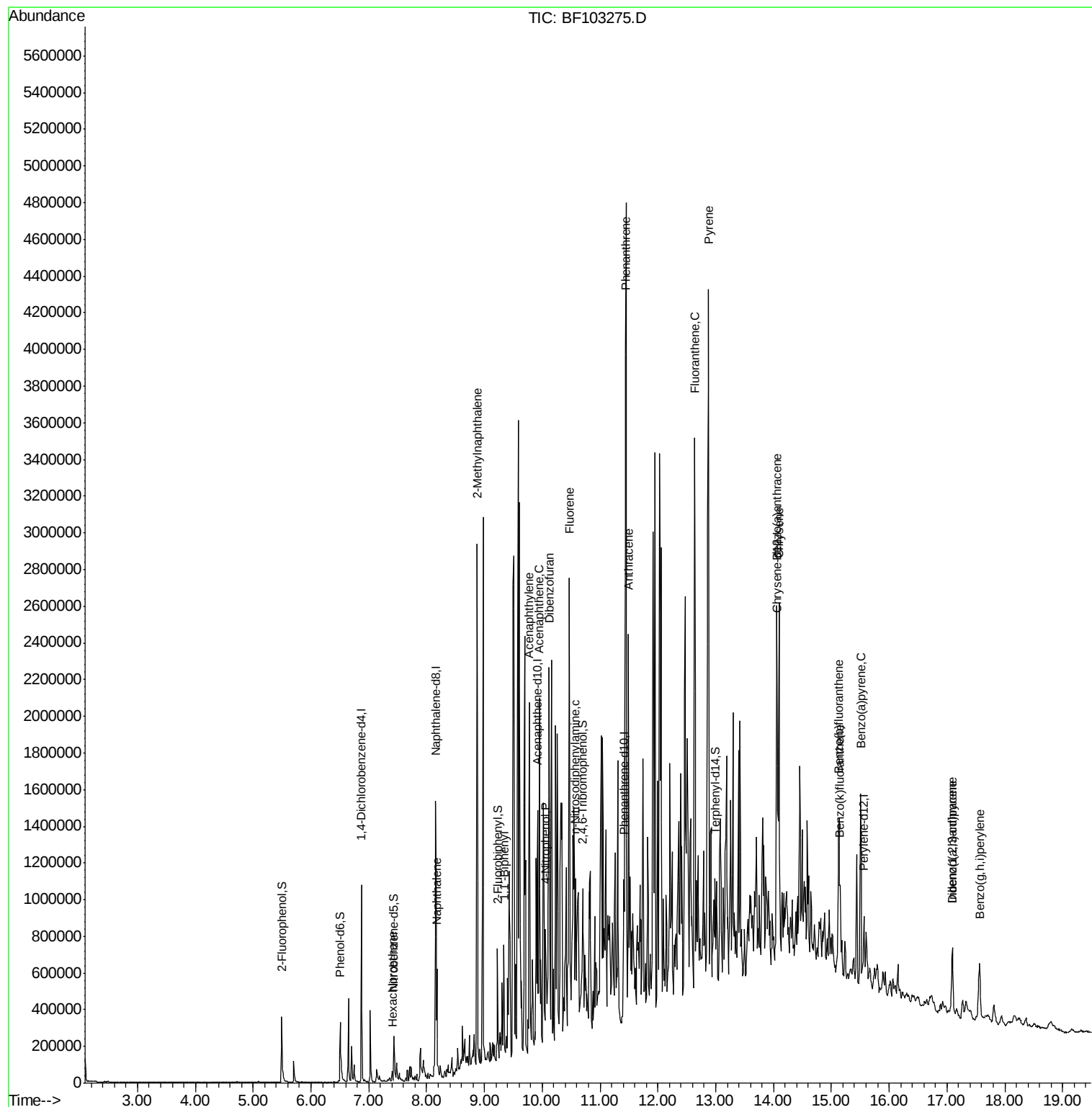
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022718\
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Misc :
ALS Vial : 21 Sample Multiplier: 1

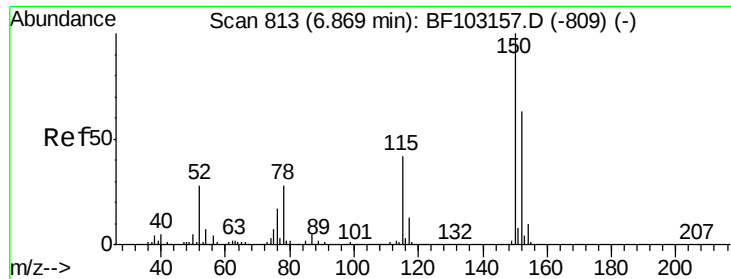
Instrument :
BNA_F
ClientSampleId :
B1

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2/28/2018 11:17:57 AM

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#1

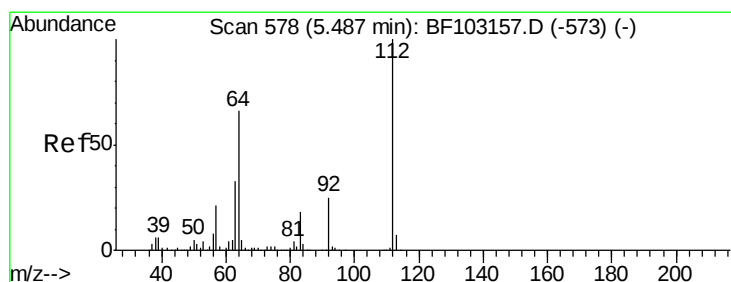
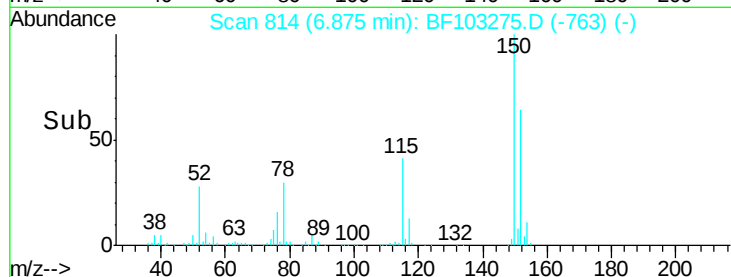
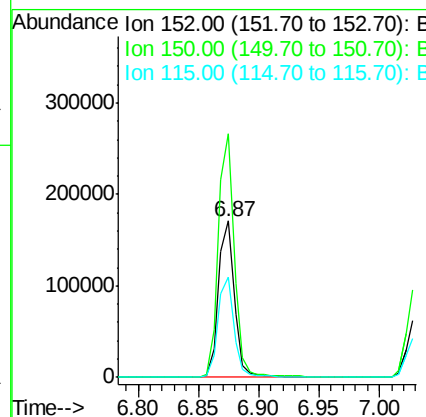
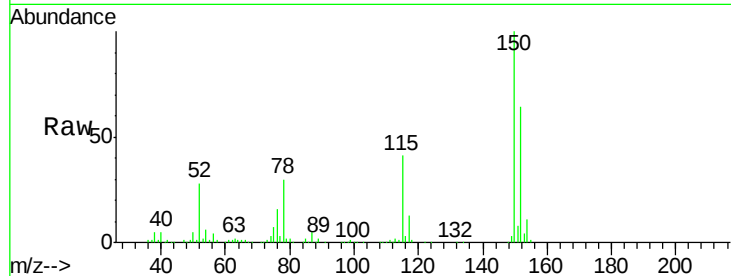
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampleId :
B1

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.6	186.8
115	63.9	50.1	75.1

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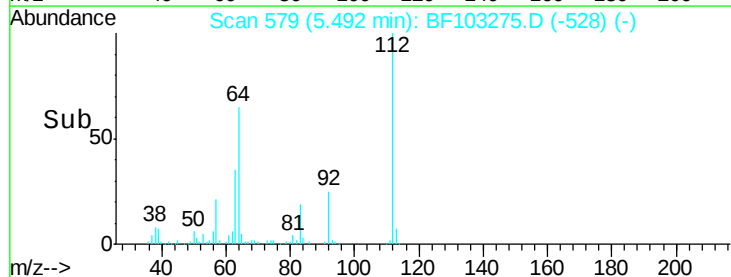
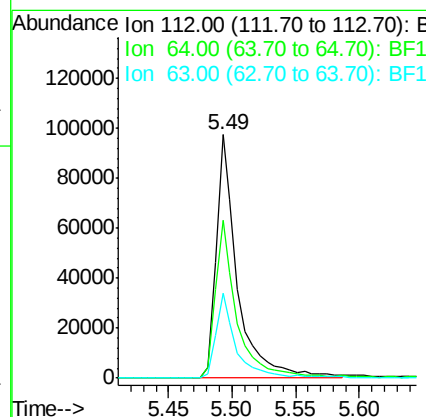
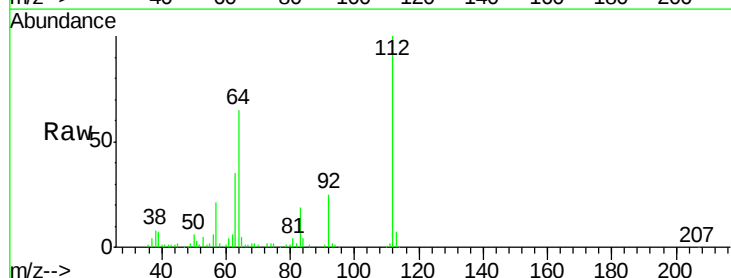
Sohil
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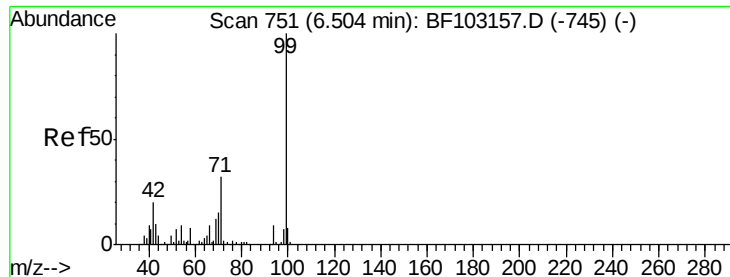


#5

2-Fluorophenol
Concen: 11.186 ng
RT: 5.49 min Scan# 579
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.0	47.9	71.9
63	34.6	23.7	35.5





#7

Phenol-d6

Concen: 11.547 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

ClientSampled :

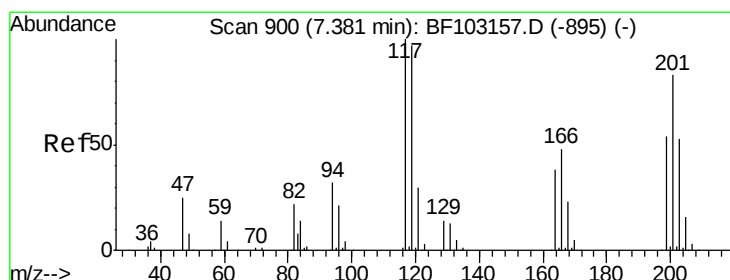
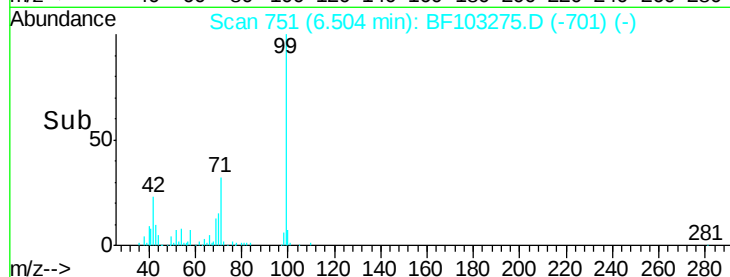
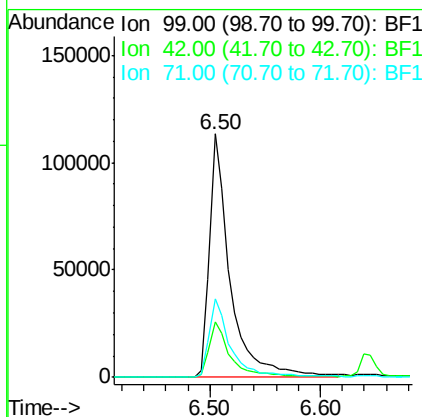
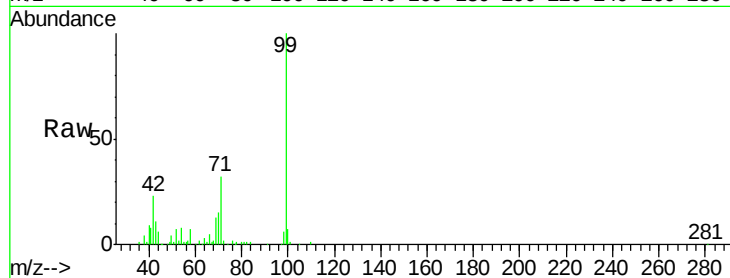
B1

Tot Ion: 99 Resp: 145729

Ion	Ratio	Lower	Upper
99	100		
42	22.7	14.5	21.7#
71	32.0	25.4	38.0

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#18

Hexachloroethane

Concen: 2.361 ng

RT: 7.40 min Scan# 904

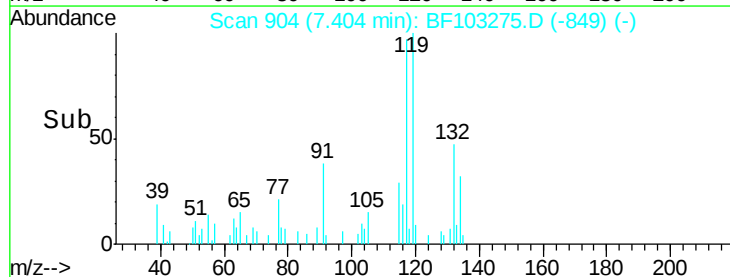
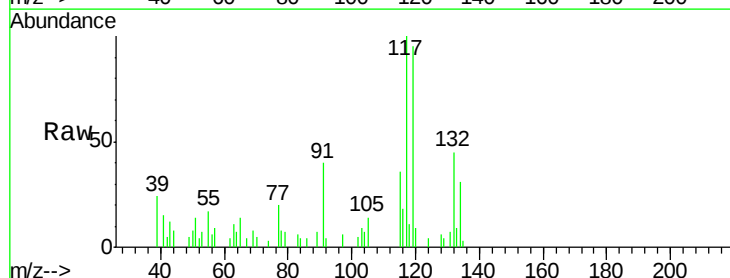
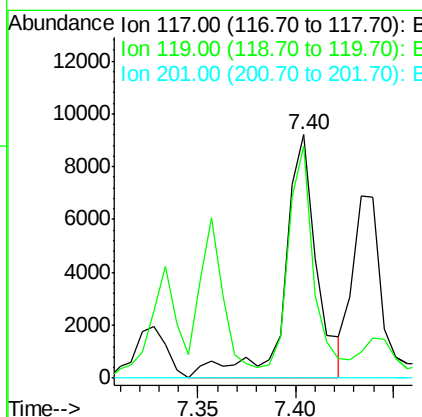
Delta R.T. 0.02 min

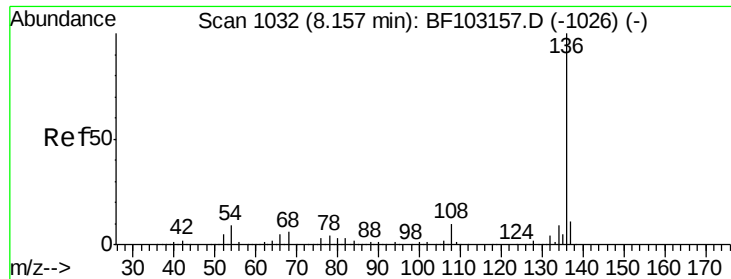
Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Tgt Ion: 117 Resp: 10550

Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.8	113.8
201	0.0	75.7	113.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

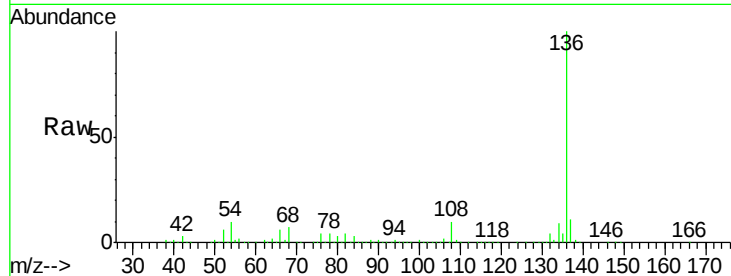
ClientSampled :

B1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		619648		
137	10.9		8.9	13.3	
54	9.6		6.6	9.8	
68	6.6		5.0	7.4	

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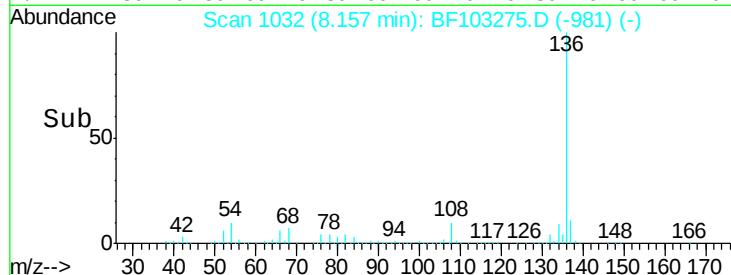
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

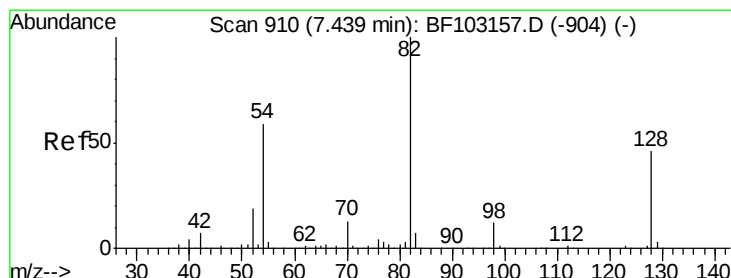
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

Time-->



Time-->



#23

Nitrobenzene-d5

Concen: 7.801 ng

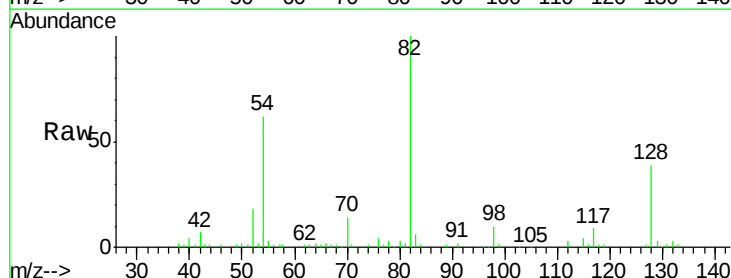
RT: 7.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		84646		
128	39.3		36.1	54.1	
54	61.7		41.4	62.2	

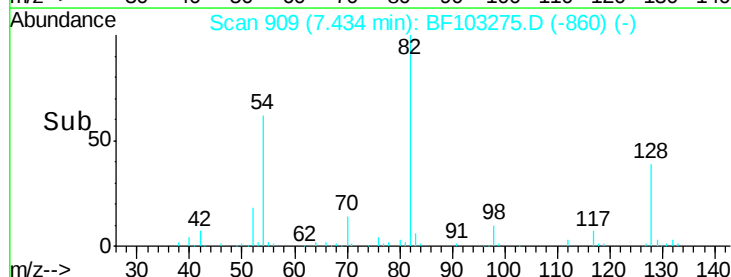


Abundance Ion 82.00 (81.70 to 82.70): BF1

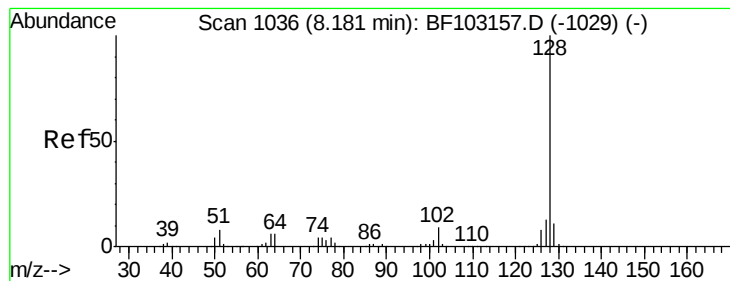
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

Time-->



Time-->



#31

Naphthalene

Concen: 7.528 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

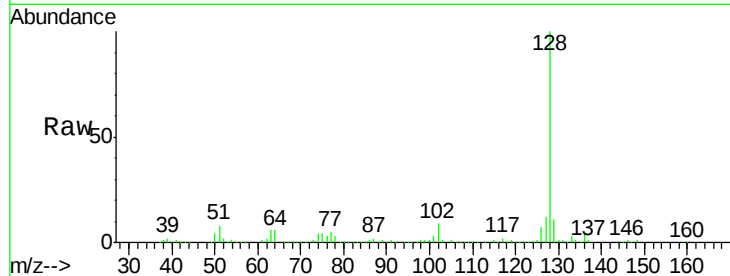
ClientSampleId :

B1

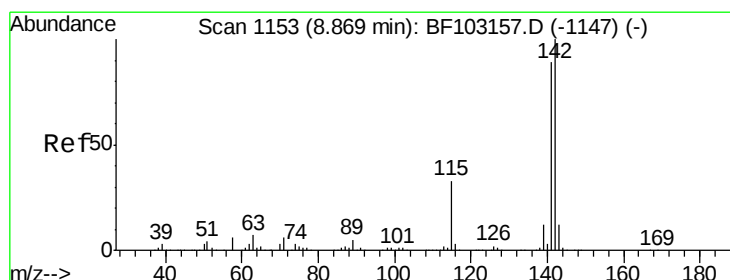
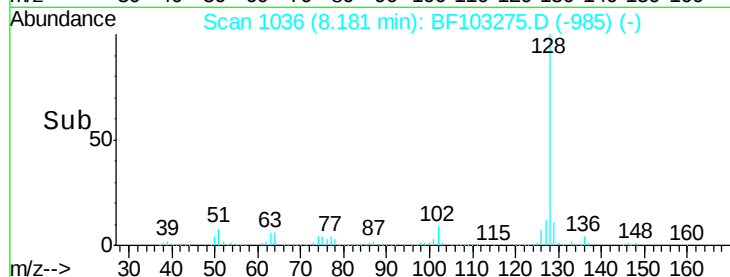
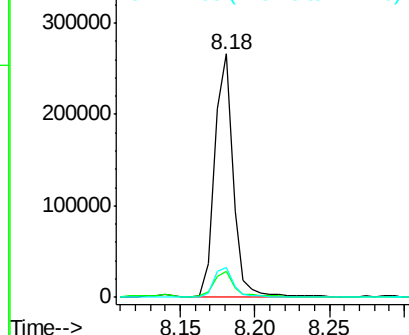
Tot Ion:	128	Resp:	228373
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	12.4	10.9	16.3

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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: 37.635 ng

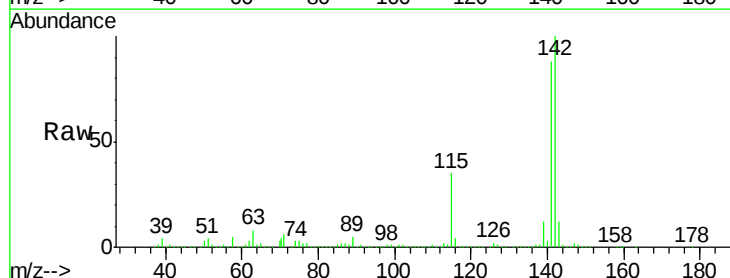
RT: 8.87 min Scan# 1154

Delta R.T. 0.01 min

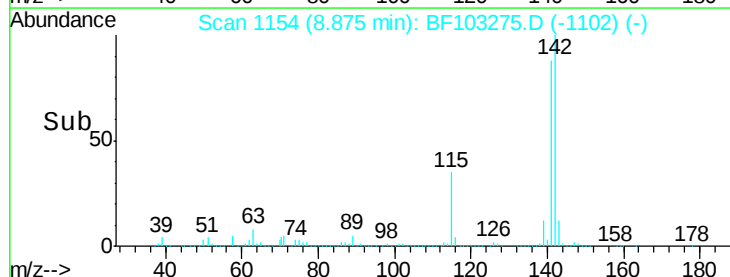
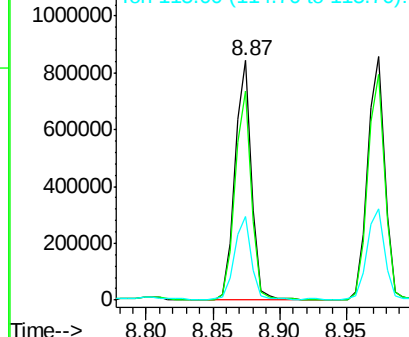
Lab File: BF103275.D

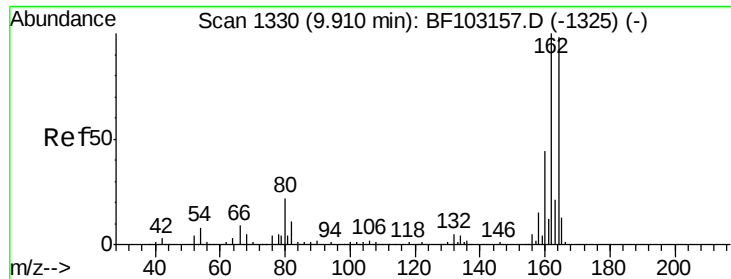
Acq: 27 Feb 2018 20:41

Tgt Ion:	142	Resp:	737872
Ion Ratio	Lower	Upper	
142	100		
141	87.6	70.8	106.2
115	35.0	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





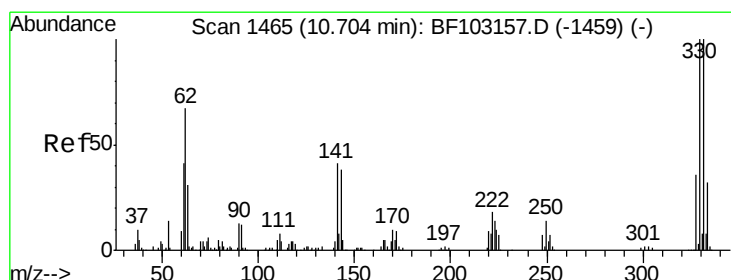
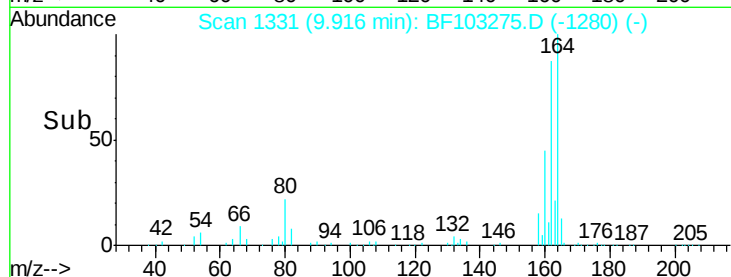
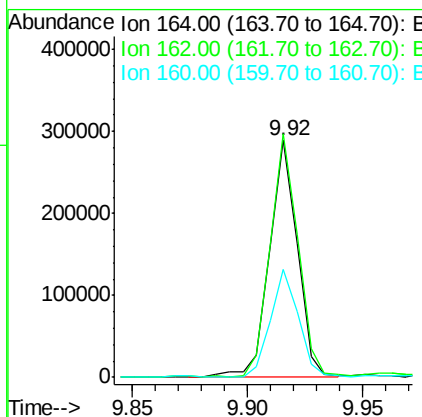
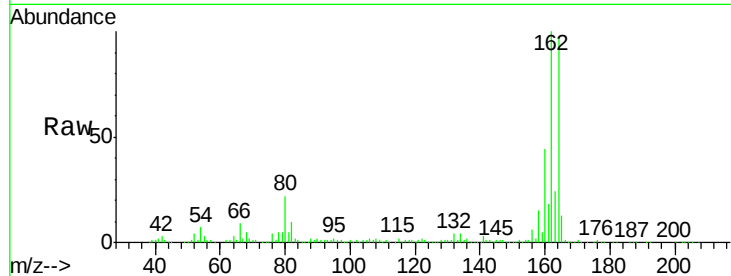
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampleId :
B1

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.8	86.1	129.1	
160	45.4	38.3	57.5	

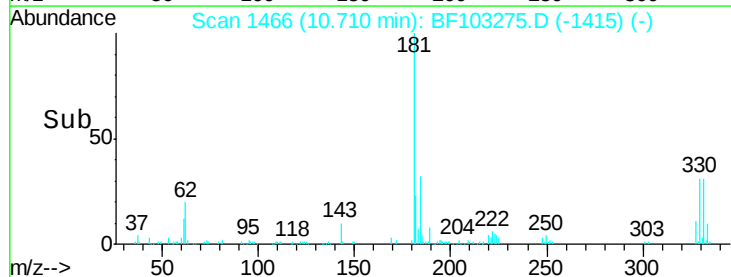
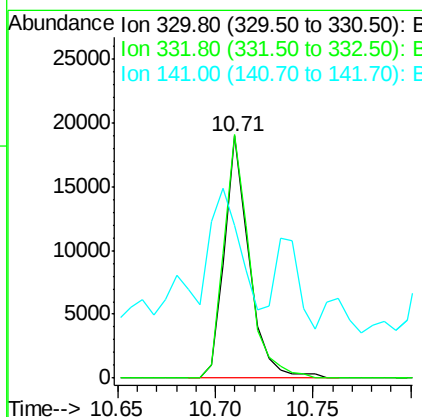
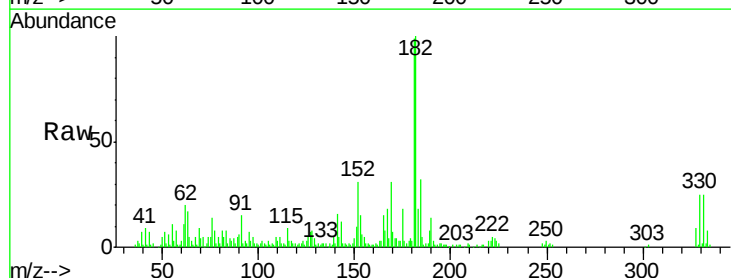
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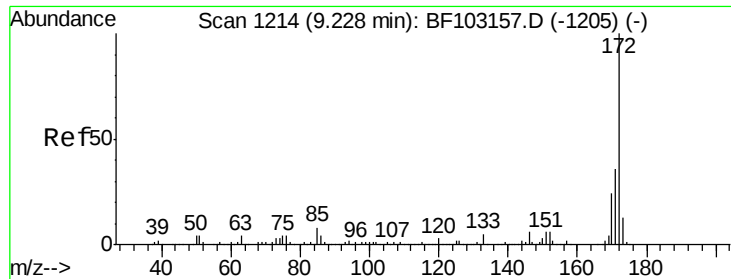
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#41
2,4,6-Tribromophenol
Concen: 8.221 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	103.0	77.0	115.6	
141	127.2	29.9	44.9#	





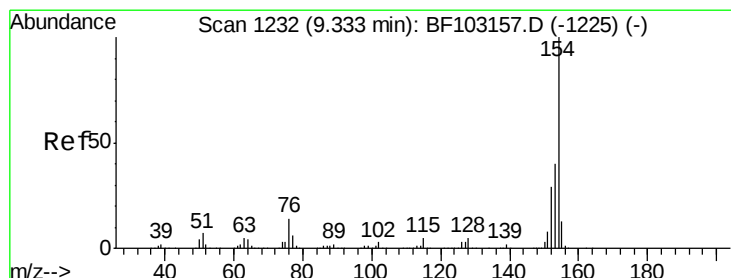
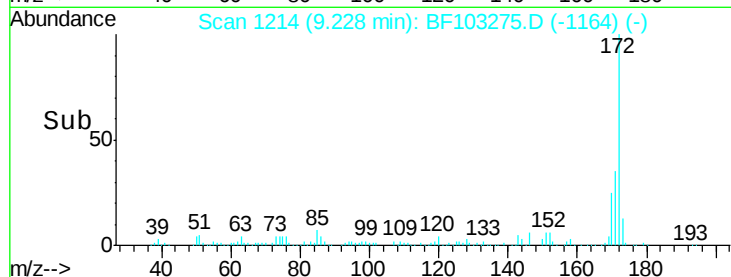
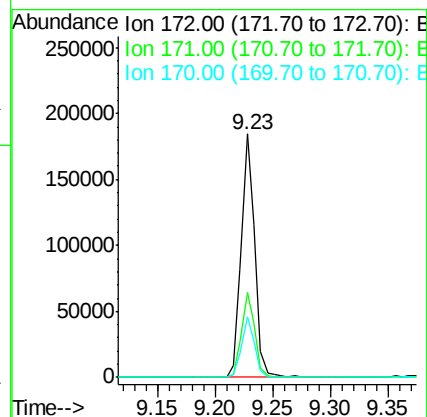
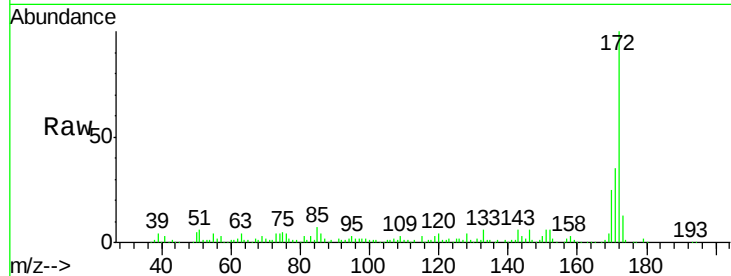
#44
2-Fluorobiphenyl
Concen: 6.546 ng
RT: 9.23 min Scan# 1214
Delta R.T. -0.01 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampled :
B1

Tot Ion	Ratio	Resp	Lower	Upper
172	100	149569		
171	34.9	29.7	44.5	
170	24.9	19.6	29.4	

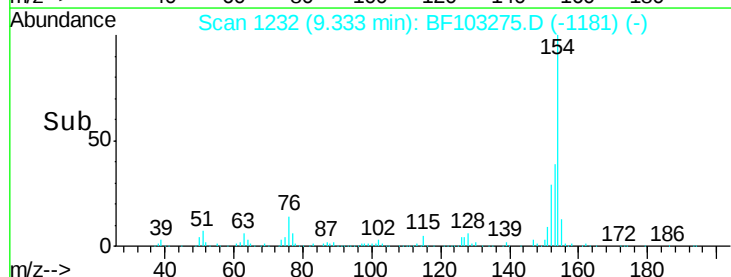
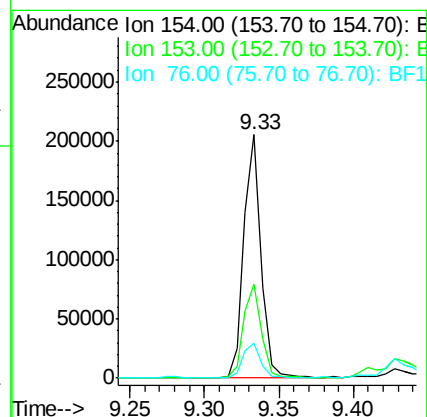
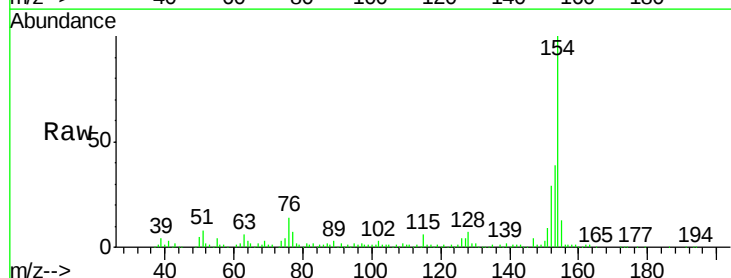
Manual Integrations
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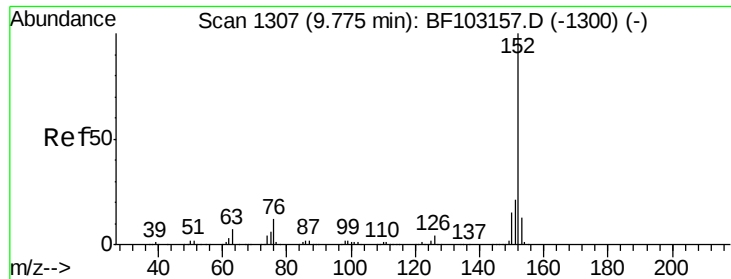
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#45
1,1'-Biphenyl
Concen: 8.257 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	166717		
153	38.5	21.3	61.3	
76	14.3	0.0	34.0	





#48

Acenaphthylene

Concen: 9.101 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

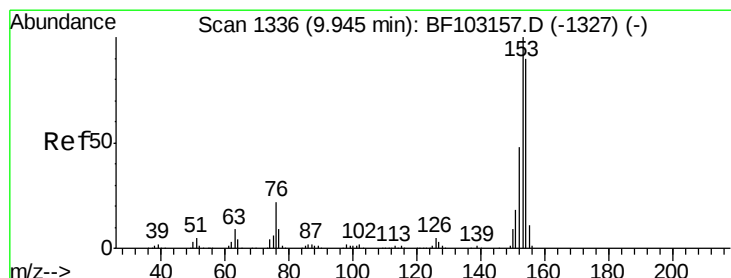
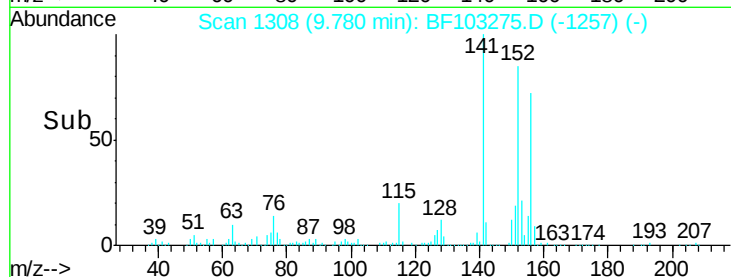
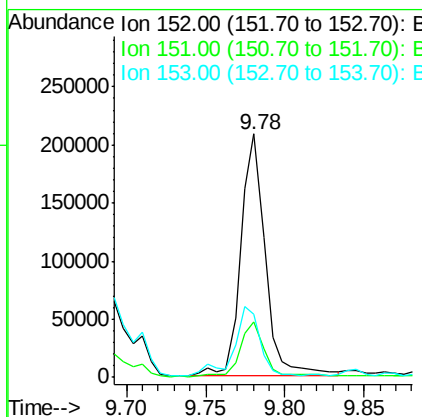
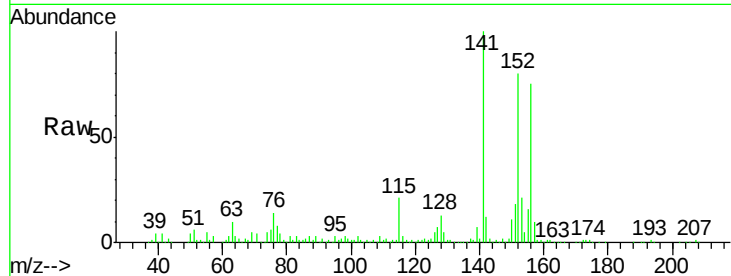
ClientSampleId :

B1

Tot Ion:	152	Resp:	223670
Ion Ratio	Lower	Upper	
152	100		
151	22.7	16.3	24.5
153	25.7	10.7	16.1#

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#51

Acenaphthene

Concen: 21.261 ng

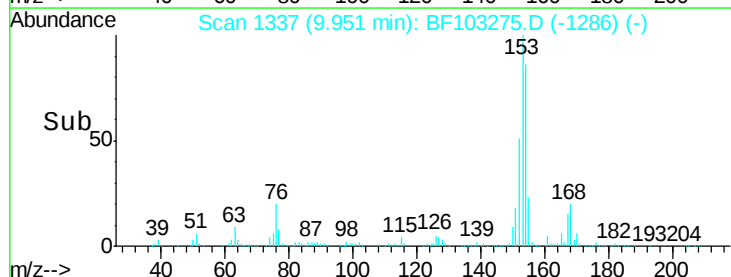
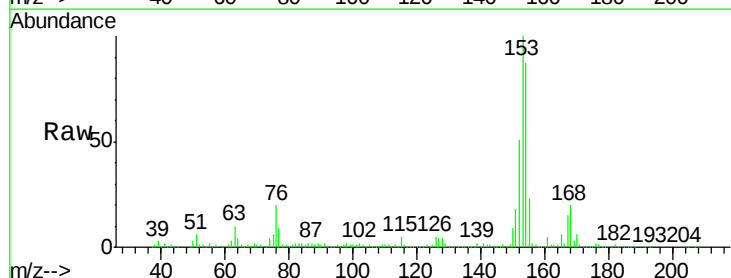
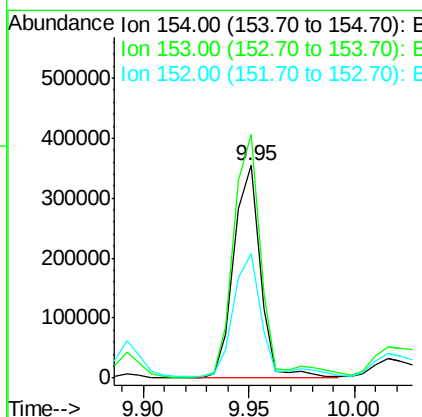
RT: 9.95 min Scan# 1337

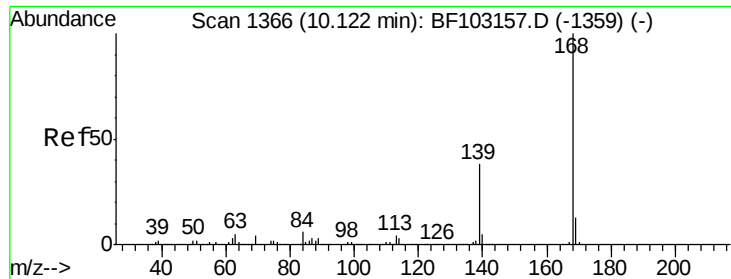
Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Tgt Ion:	154	Resp:	304689
Ion Ratio	Lower	Upper	
154	100		
153	114.5	91.2	136.8
152	58.6	43.8	65.8





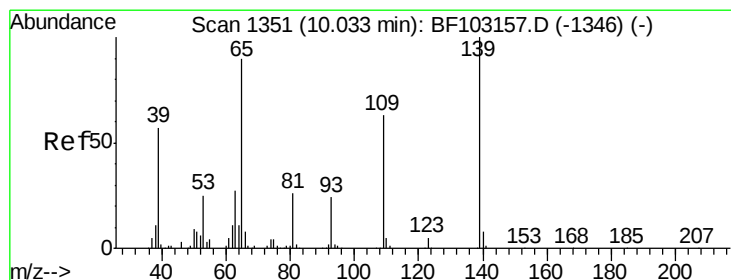
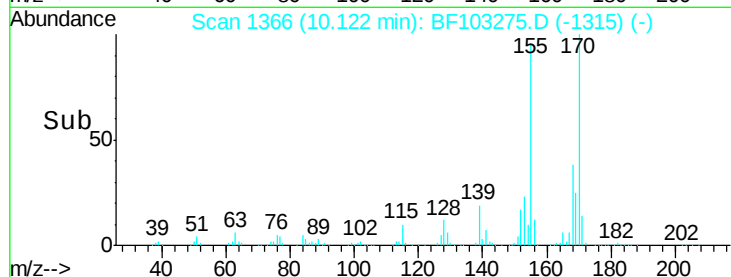
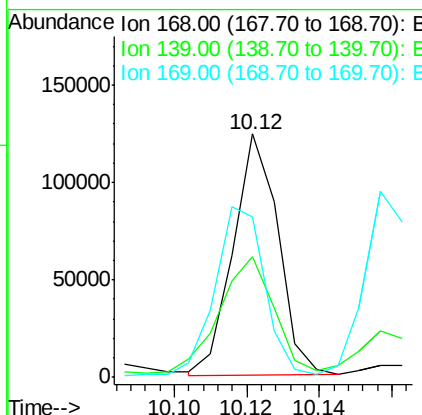
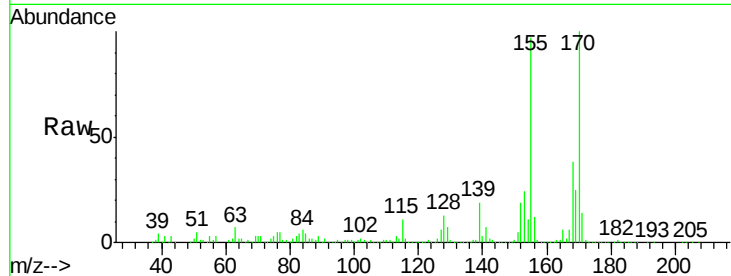
#54
Dibenzofuran
Concen: 5.427 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampled :
B1

Tot Ion	Ratio	Lower	Upper
168	100		
139	49.4	30.1	45.1#
169	65.8	10.9	16.3#

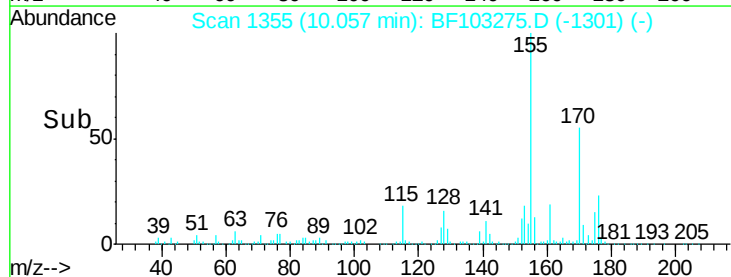
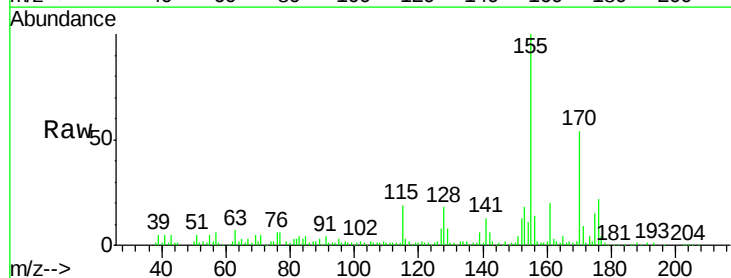
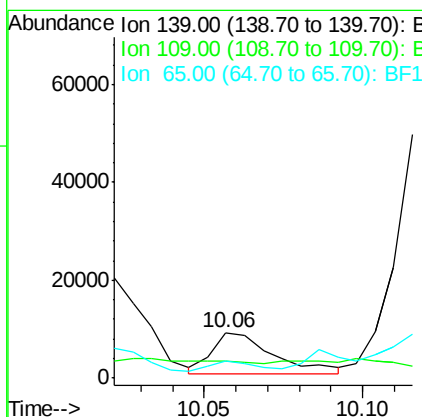
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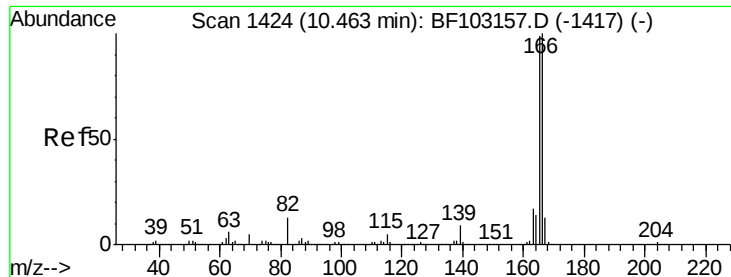
Sohil
2/28/2018 11:17:57 AM



#55
4-Nitrophenol
Concen: 3.507 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.02 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
139	100		
109	36.2	48.4	88.4#
65	38.9	72.6	112.6#





#57

Fluorene

Concen: 40.215 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

ClientSampled :

B1

Tot Ion:166 Resp: 673938

Ion Ratio Lower Upper

166 100

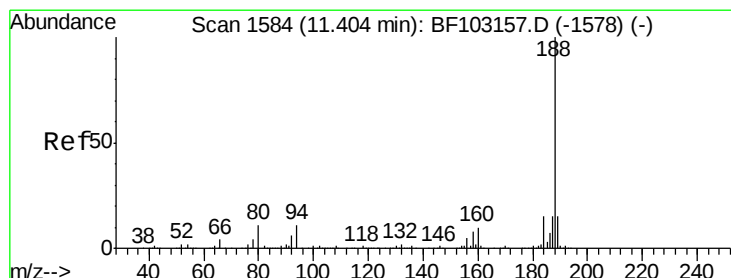
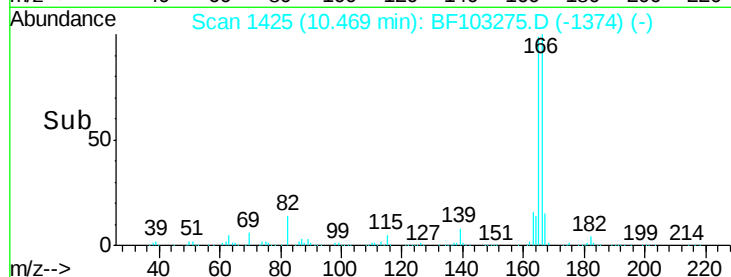
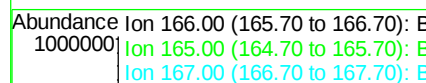
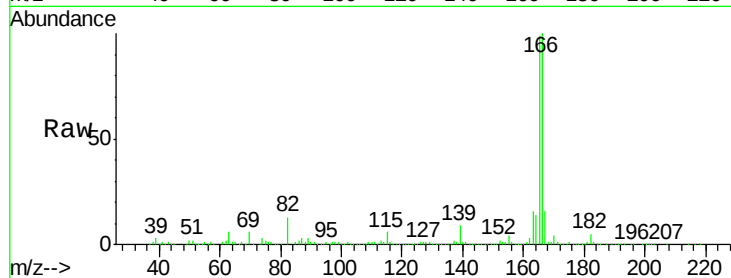
165 99.4 79.8 119.8

167 16.3 10.6 16.0#

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

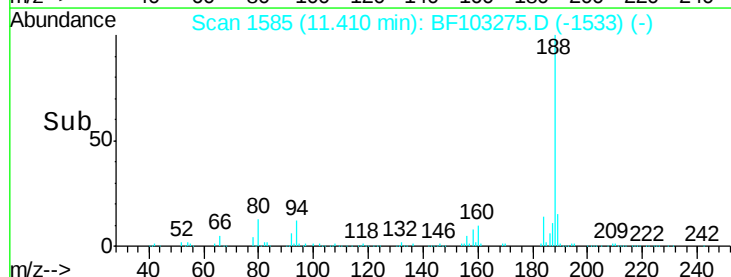
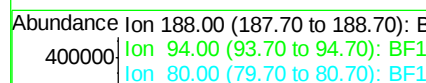
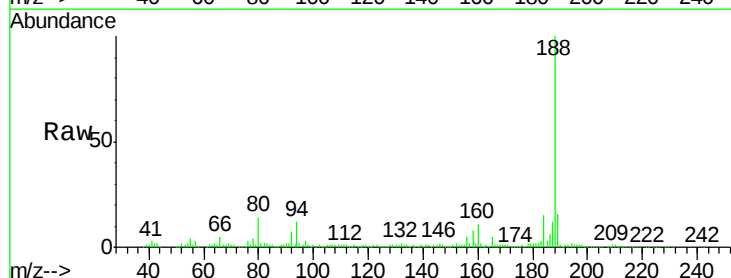
Tgt Ion:188 Resp: 347730

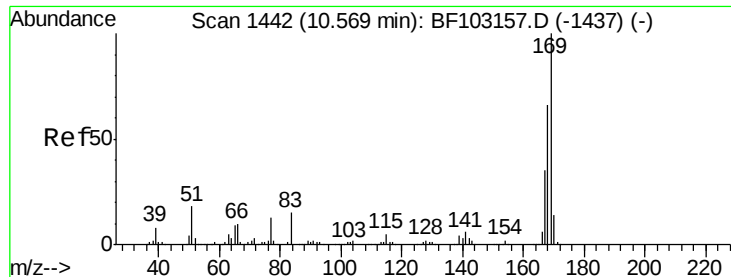
Ion Ratio Lower Upper

188 100

94 12.5 8.5 12.7

80 13.5 9.2 13.8





#65

n-Nitrosodiphenylamine

Concen: 8.868 ng

RT: 10.57 min Scan# 1443

Delta R.T. -0.00 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

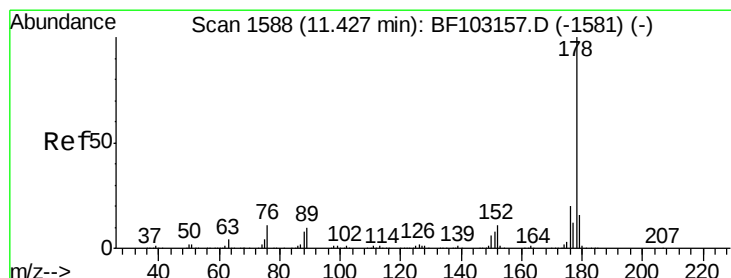
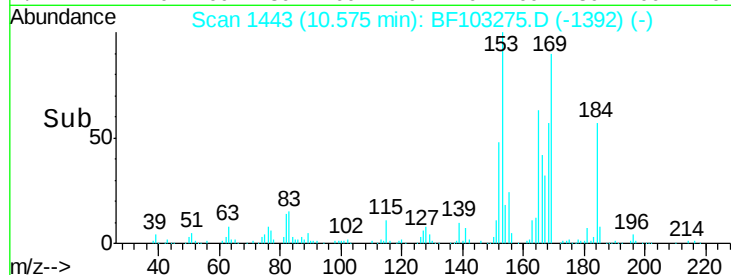
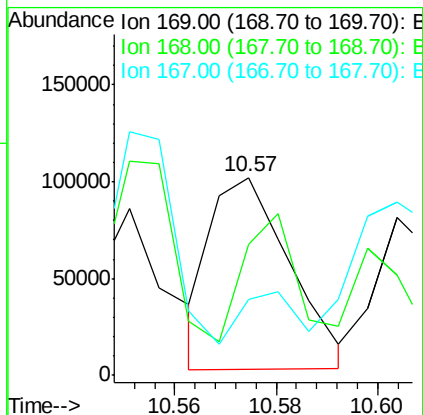
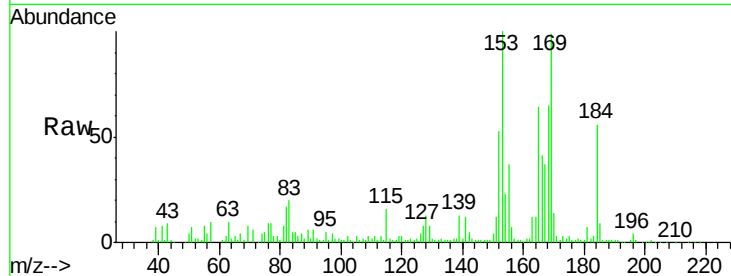
ClientSampled :

B1

Tot Ion:	169	Resp:	107371
Ion Ratio	Lower	Upper	
169	100		
168	66.0	54.4	81.6
167	38.0	29.8	44.6

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#70

Phenanthrene

Concen: 129.531 ng

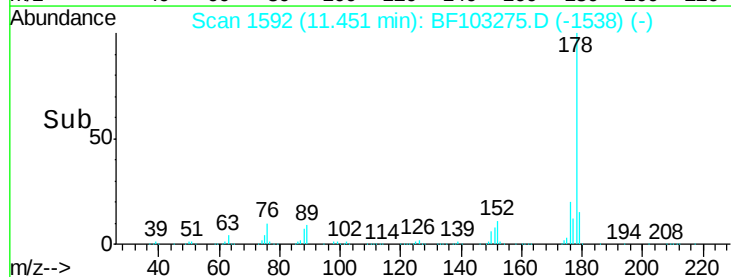
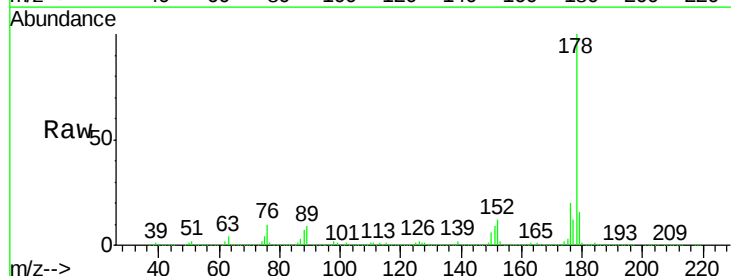
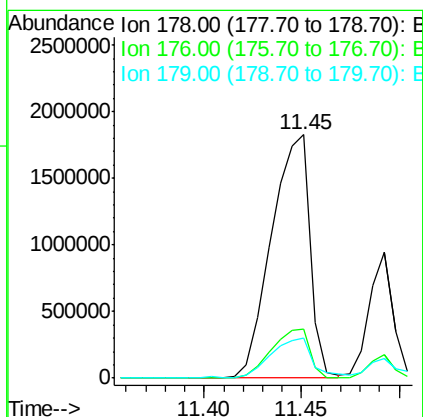
RT: 11.45 min Scan# 1592

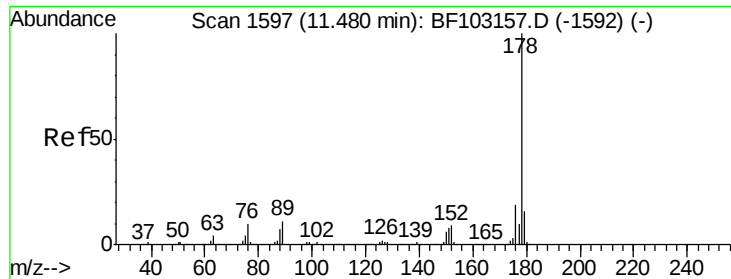
Delta R.T. 0.02 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Tgt Ion:	178	Resp:	2478783
Ion Ratio	Lower	Upper	
178	100		
176	20.3	15.8	23.8
179	16.3	13.0	19.6





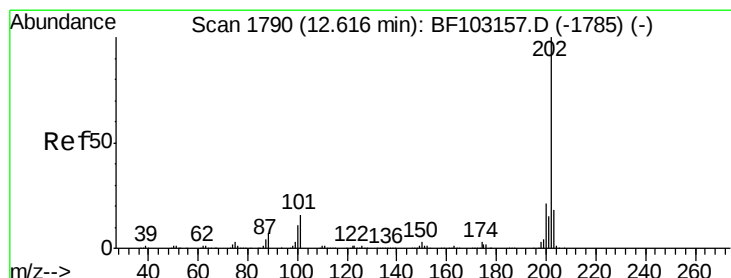
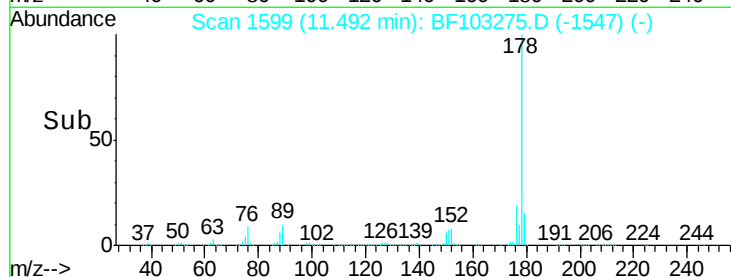
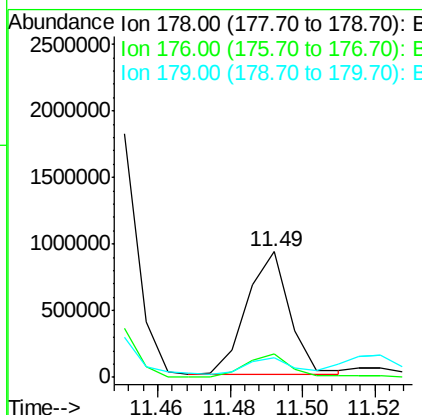
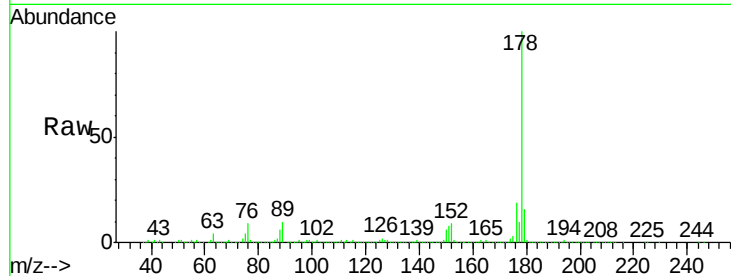
#71
 Anthracene
 Concen: 38.987 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: BF103275.D
 Acq: 27 Feb 2018 20:41

Instrument :
 BNA_F
 ClientSampled :
 B1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.5	12.6	19.0

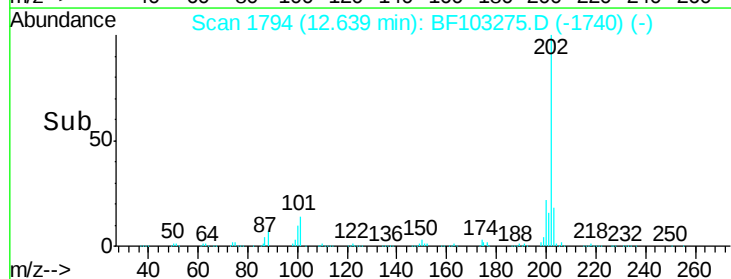
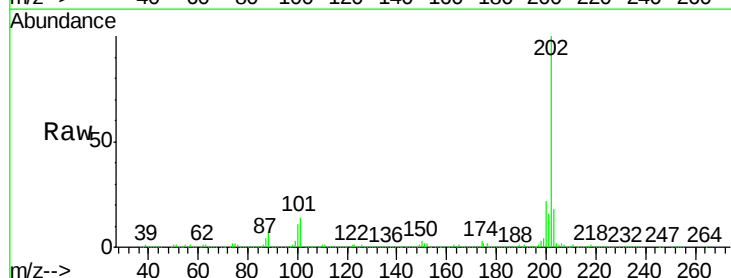
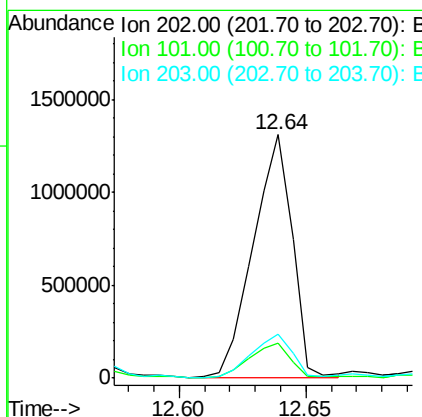
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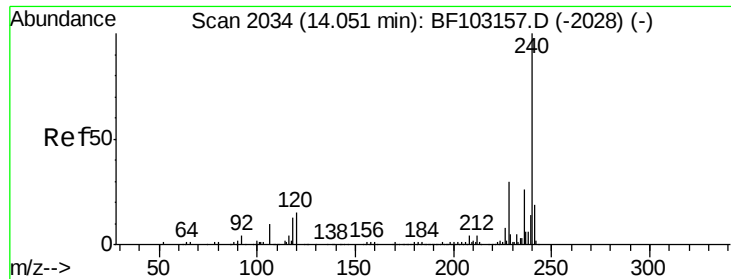
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#74
 Fluoranthene
 Concen: 72.511 ng
 RT: 12.64 min Scan# 1794
 Delta R.T. 0.02 min
 Lab File: BF103275.D
 Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Instrument :

BNA_F

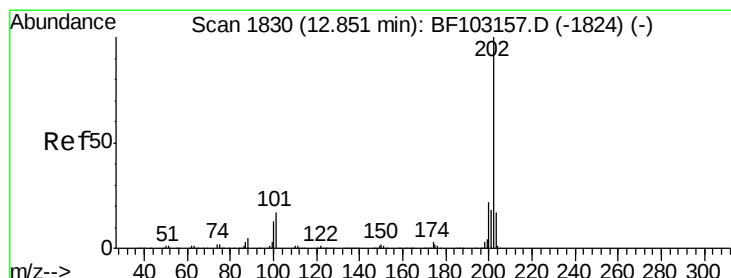
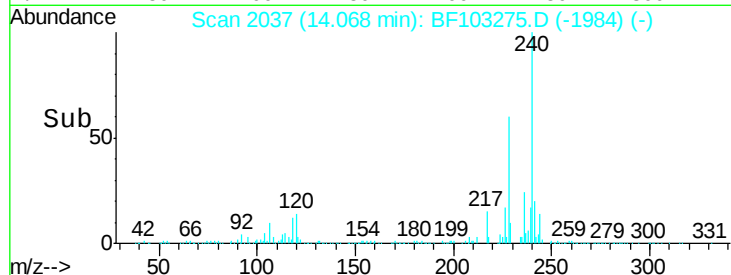
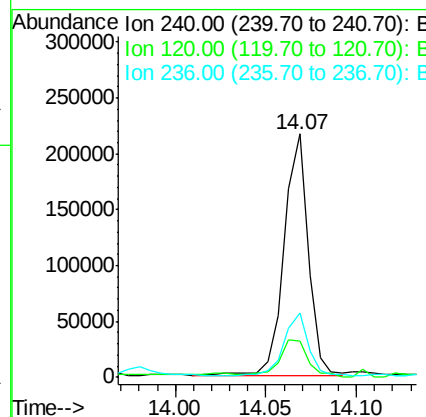
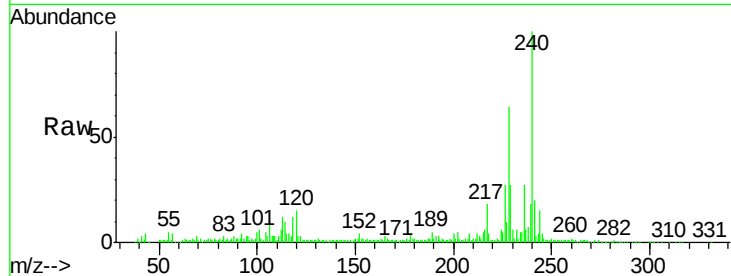
ClientSampled :

B1

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.0	9.5	14.3#
236	26.5	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 132.239 ng

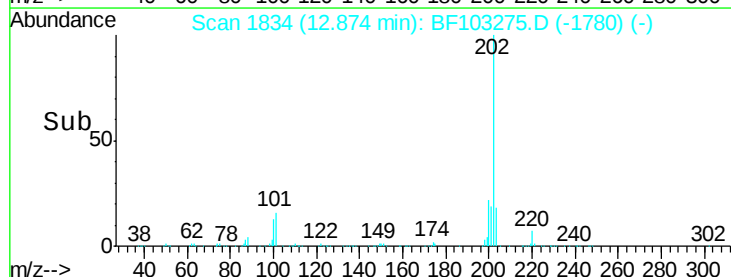
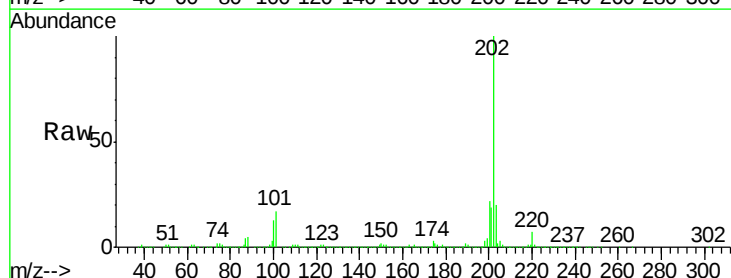
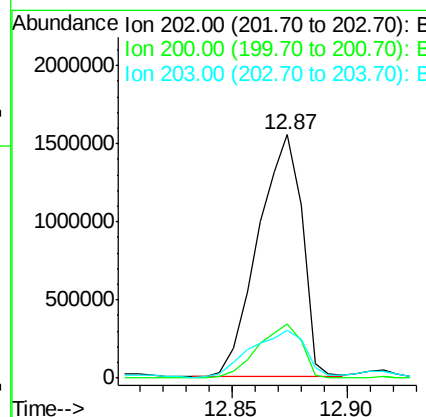
RT: 12.87 min Scan# 1834

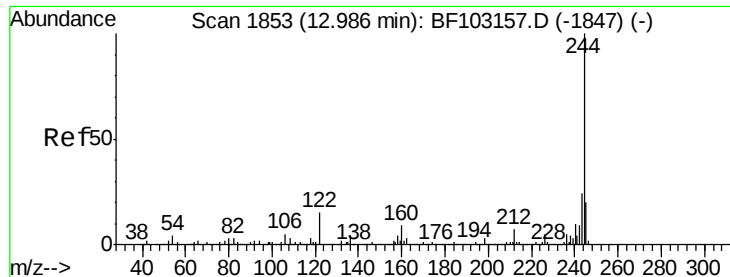
Delta R.T. 0.02 min

Lab File: BF103275.D

Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	19.6	14.3	21.5





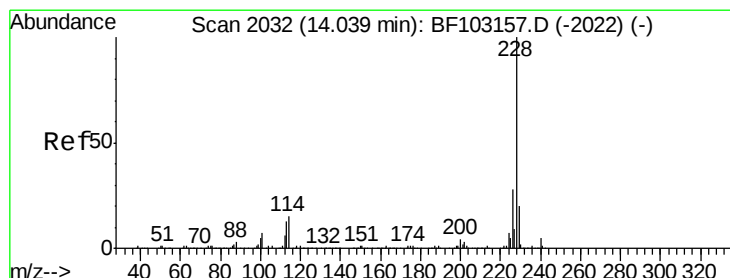
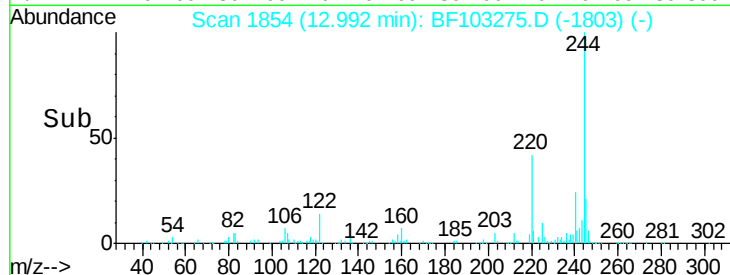
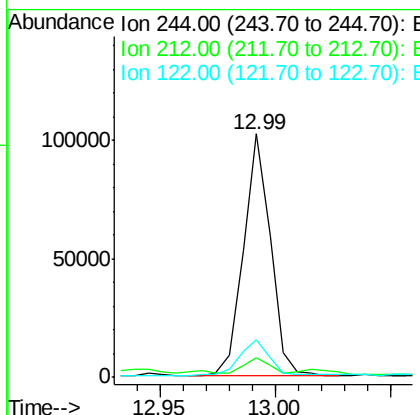
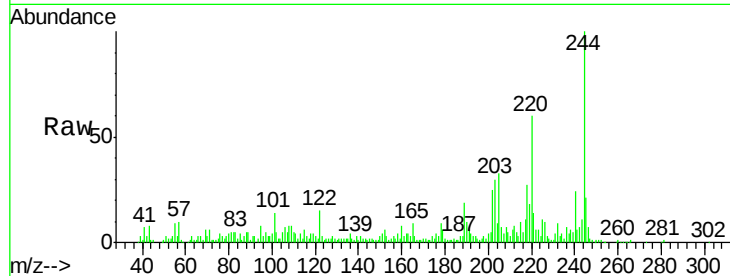
#78
 Terphenyl-d14
 Concen: 10.118 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: BF103275.D
 Acq: 27 Feb 2018 20:41

Instrument :
 BNA_F
 ClientSampled :
 B1

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.2	5.4	8.0#
122	15.2	11.0	16.4

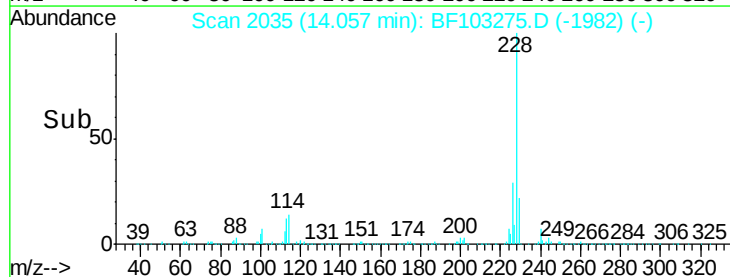
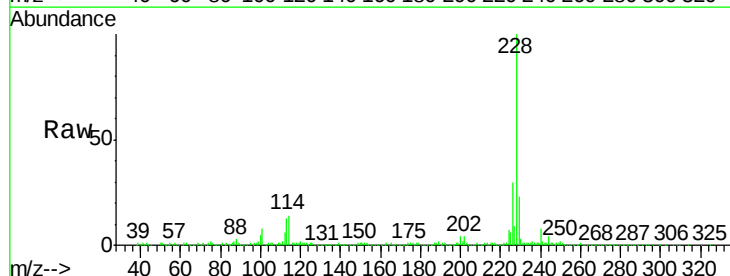
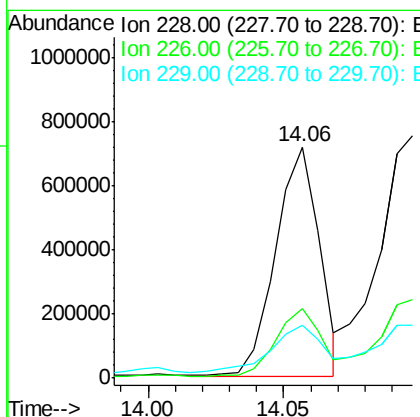
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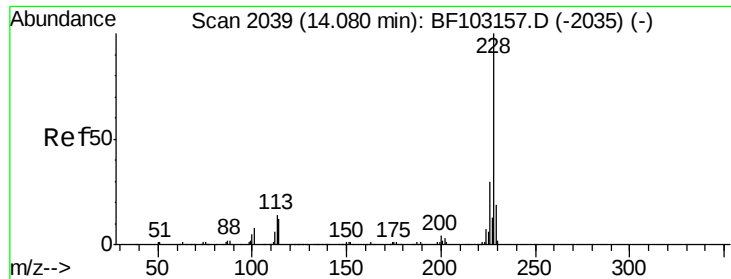
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#80
 Benzo(a)anthracene
 Concen: 62.157 ng m
 RT: 14.06 min Scan# 2035
 Delta R.T. 0.01 min
 Lab File: BF103275.D
 Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	23.0	15.8	23.6





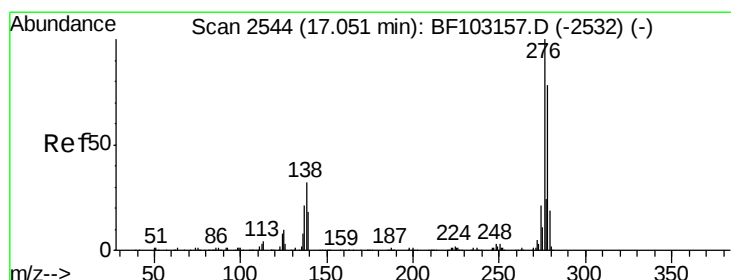
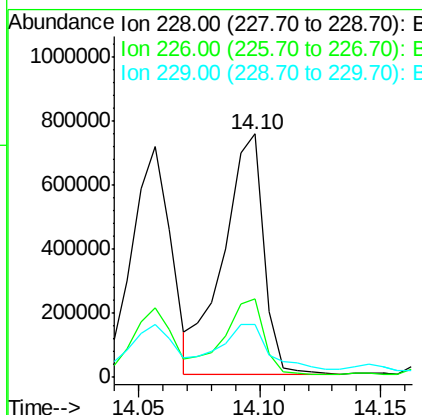
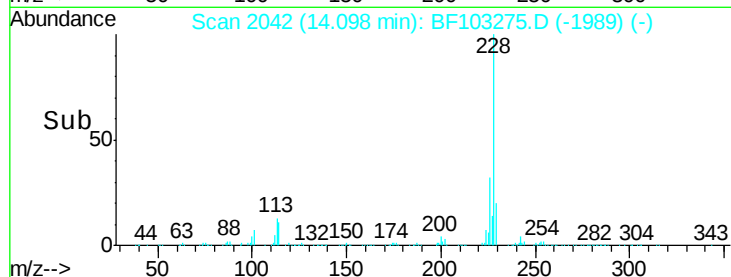
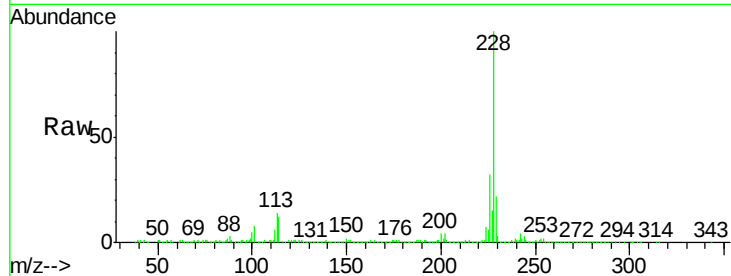
#82
Chrysene
Concen: 68.730 ng/mL
RT: 14.10 min Scan# 2042
Delta R.T. 0.01 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampleID :
B1

Tot Ion:	228	Resp:	863787
Ion Ratio	Lower	Upper	
228	100		
226	32.4	25.0	37.6
229	22.0	16.2	24.4

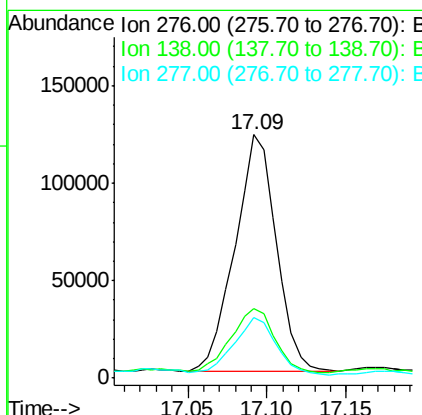
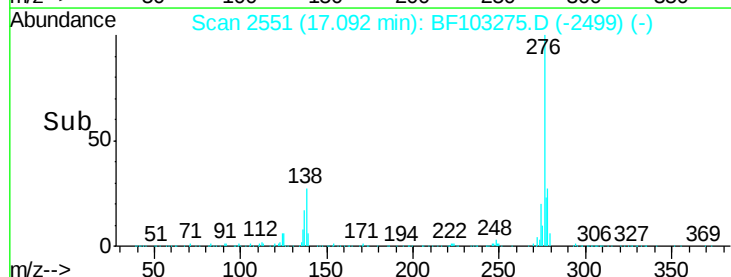
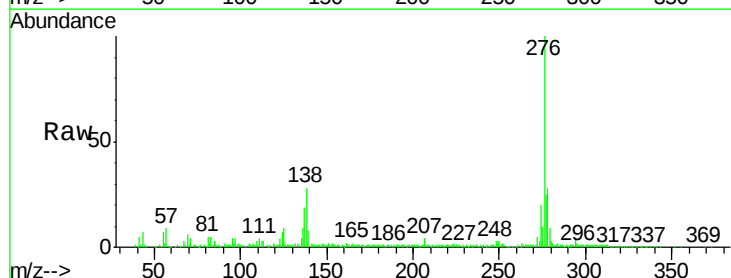
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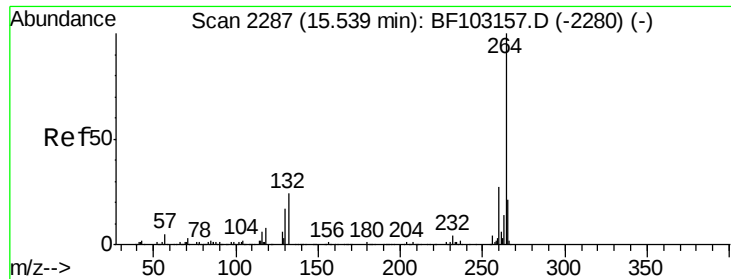
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#85
Indeno(1,2,3-cd)pyrene
Concen: 21.966 ng/mL
RT: 17.09 min Scan# 2551
Delta R.T. 0.01 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion:	276	Resp:	218558
Ion Ratio	Lower	Upper	
276	100		
138	28.8	25.0	37.6
277	25.0	20.1	30.1





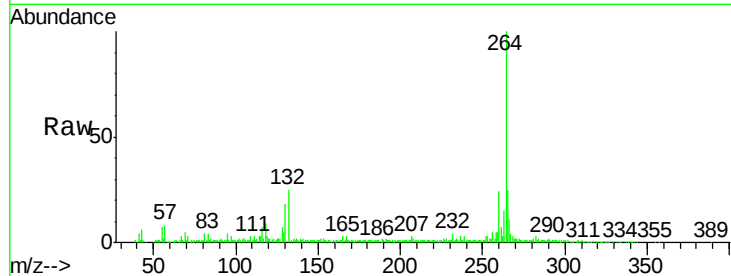
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.57 min Scan# 2292
Delta R.T. 0.01 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampled :
B1

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	25.3	17.5	26.3

Manual Integrations
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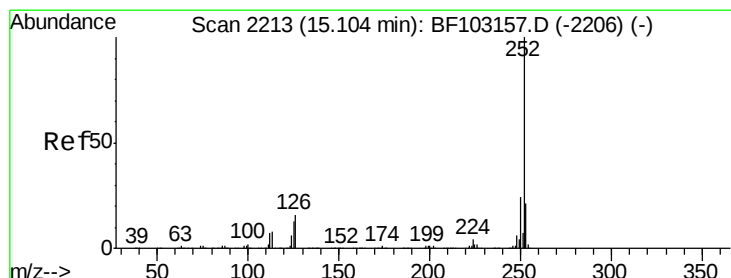
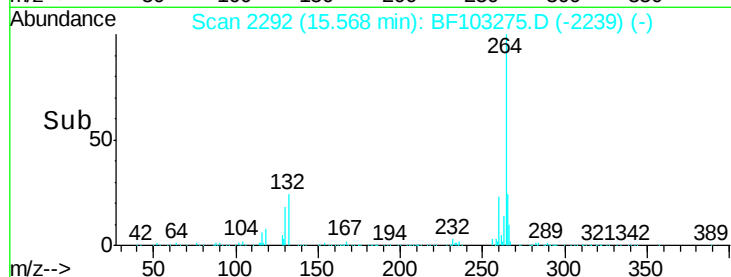
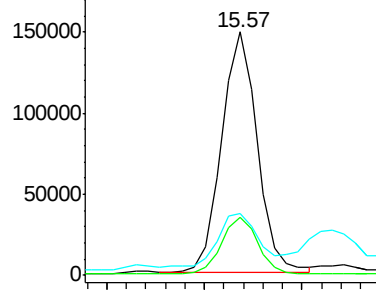


Abundance

Ion 264.00 (263.70 to 264.70): E

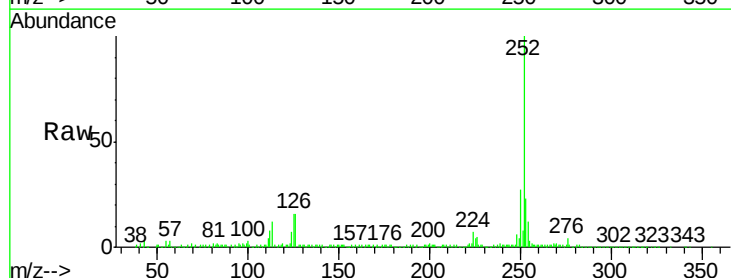
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 42.186 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.02 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	15.5	9.0	13.6

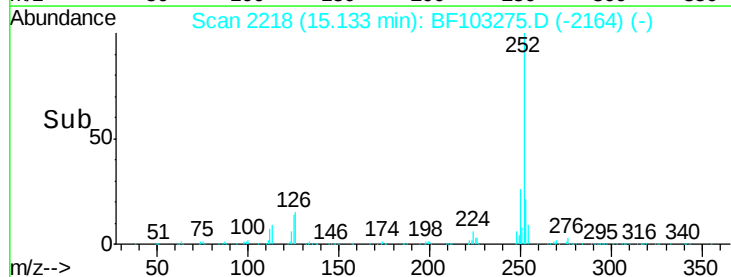
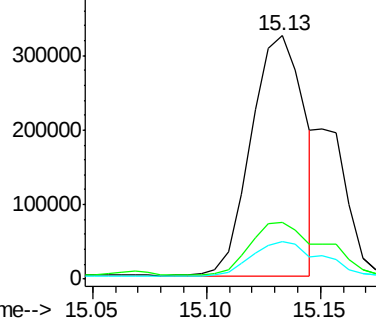


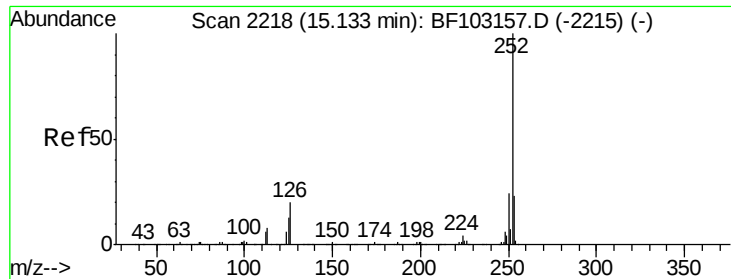
Abundance

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





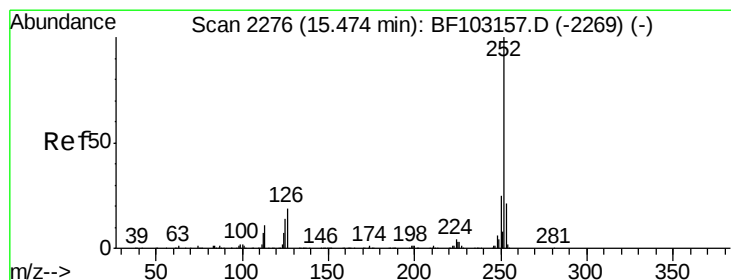
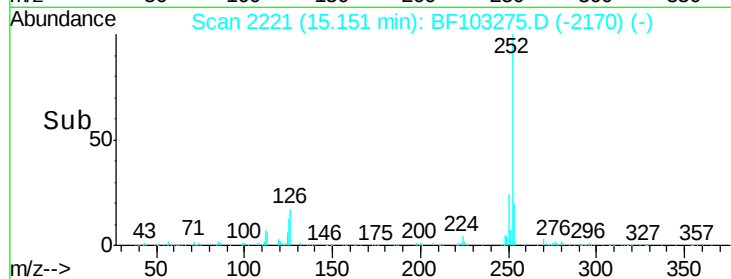
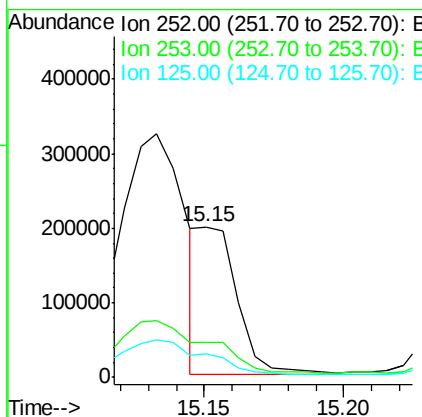
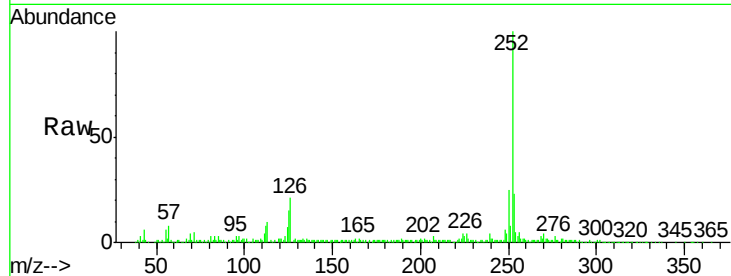
#88
Benzo(k)fluoranthene
Concen: 16.026 ng m
RT: 15.15 min Scan# 2221
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampled :
B1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	15.4	10.2	15.2

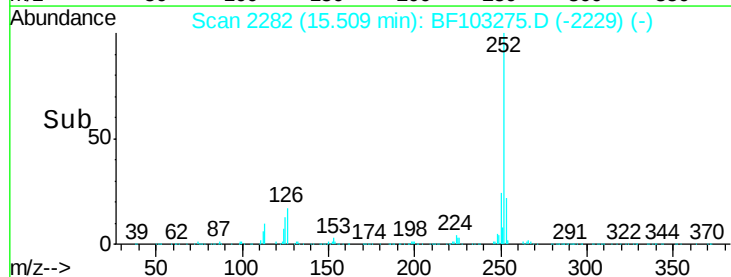
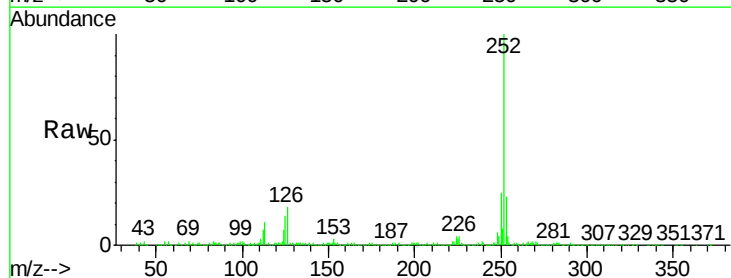
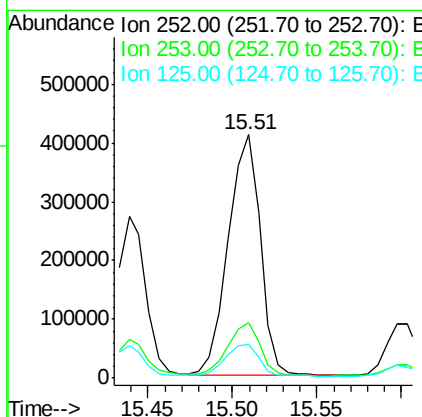
Manual Integrations
APPROVED

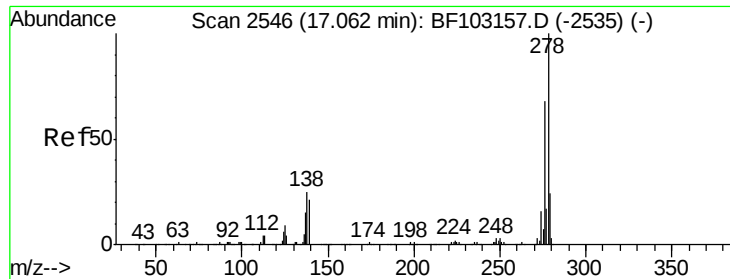
Sohil
2/28/2018 11:17:57 AM



#89
Benzo(a)pyrene
Concen: 49.329 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	13.9	9.8	14.6





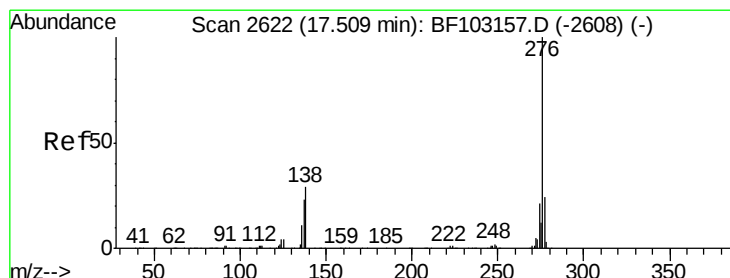
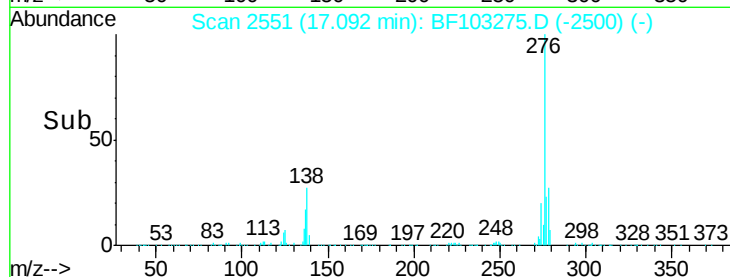
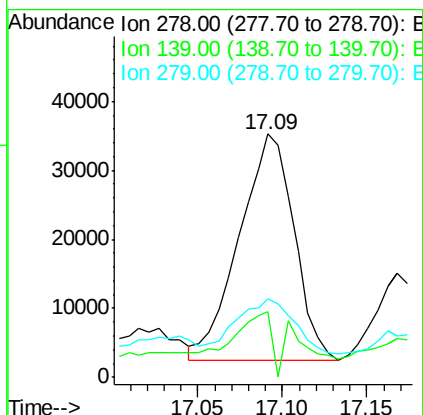
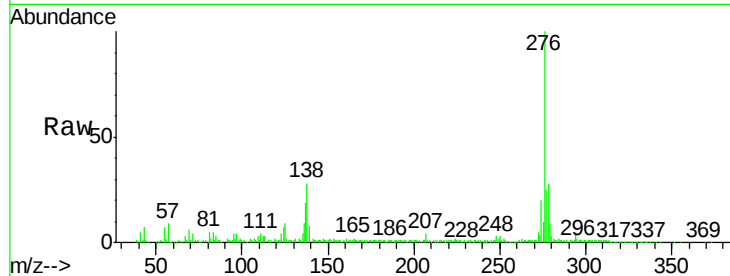
#90
Dibenzo(a,h)anthracene
Concen: 8.620 ng
RT: 17.09 min Scan# 2551
Delta R.T. -0.00 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Instrument :
BNA_F
ClientSampleId :
B1

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.8	15.9	23.9#
279	32.5	19.0	28.4#

Manual Integrations
APPROVED

Sohil
2/28/2018 11:17:57 AM



#91
Benzo(g,h,i)perylene
Concen: 32.332 ng
RT: 17.56 min Scan# 2631
Delta R.T. 0.02 min
Lab File: BF103275.D
Acq: 27 Feb 2018 20:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	29.5	21.8	32.8

