

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
 Data File : BF102216.D
 Acq On : 19 Jan 2018 12:24
 Operator : SJ/JU
 Sample : J1200-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-S_10

Manual Integrations
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Quant Time: Jan 19 14:00:10 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 19 13:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	139396	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	574645	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	256412	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	411979	20.00	ng	0.00
75) Chrysene-d12	13.88	240	285326	20.00	ng	0.00
86) Perylene-d12	15.30	264	250495	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	793515	80.38	ng	0.00
7) Phenol-d6	6.36	99	946897	80.40	ng	0.00
23) Nitrobenzene-d5	7.29	82	575238	58.82	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	181494	81.11	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	711142	43.33	ng	0.00
78) Terphenyl-d14	12.83	244	509941	37.11	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.37	94	40715	3.059	ng	81
31) Naphthalene	8.03	128	1709275	59.527	ng	99
37) 2-Methylnaphthalene	8.72	142	179102	9.475	ng	98
45) 1,1'-Biphenyl	9.18	154	67793	2.991	ng	95
48) Acenaphthylene	9.62	152	264752	9.492	ng	100
49) Dimethylphthalate	9.47	163	134684	6.548	ng	99
51) Acenaphthene	9.79	154	214230	12.655	ng	98
54) Dibenzofuran	9.96	168	303566	13.066	ng	99
57) Fluorene	10.30	166	368285	22.930	ng	99
70) Phenanthrene	11.27	178	1242202	51.619	ng	100
71) Anthracene	11.32	178	409236	16.768	ng	99
72) Carbazole	11.47	167	173331	7.225	ng	98
74) Fluoranthene	12.46	202	1012895	42.780	ng	97
77) Pyrene	12.69	202	789799	31.315	ng	99
80) Benzo(a)anthracene	13.87	228	400144m	21.980	ng	
82) Chrysene	13.90	228	318828	16.796	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	139887	10.125	ng	96
87) Benzo(b)fluoranthene	14.89	252	397148m	24.316	ng	
88) Benzo(k)fluoranthene	14.92	252	122685m	7.787	ng	
89) Benzo(a)pyrene	15.24	252	281013	19.120	ng	95
90) Dibenzo(a,h)anthracene	16.68	278	34121	2.909	ng	# 87
91) Benzo(g,h,i)perylene	17.09	276	118170	10.002	ng	99

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

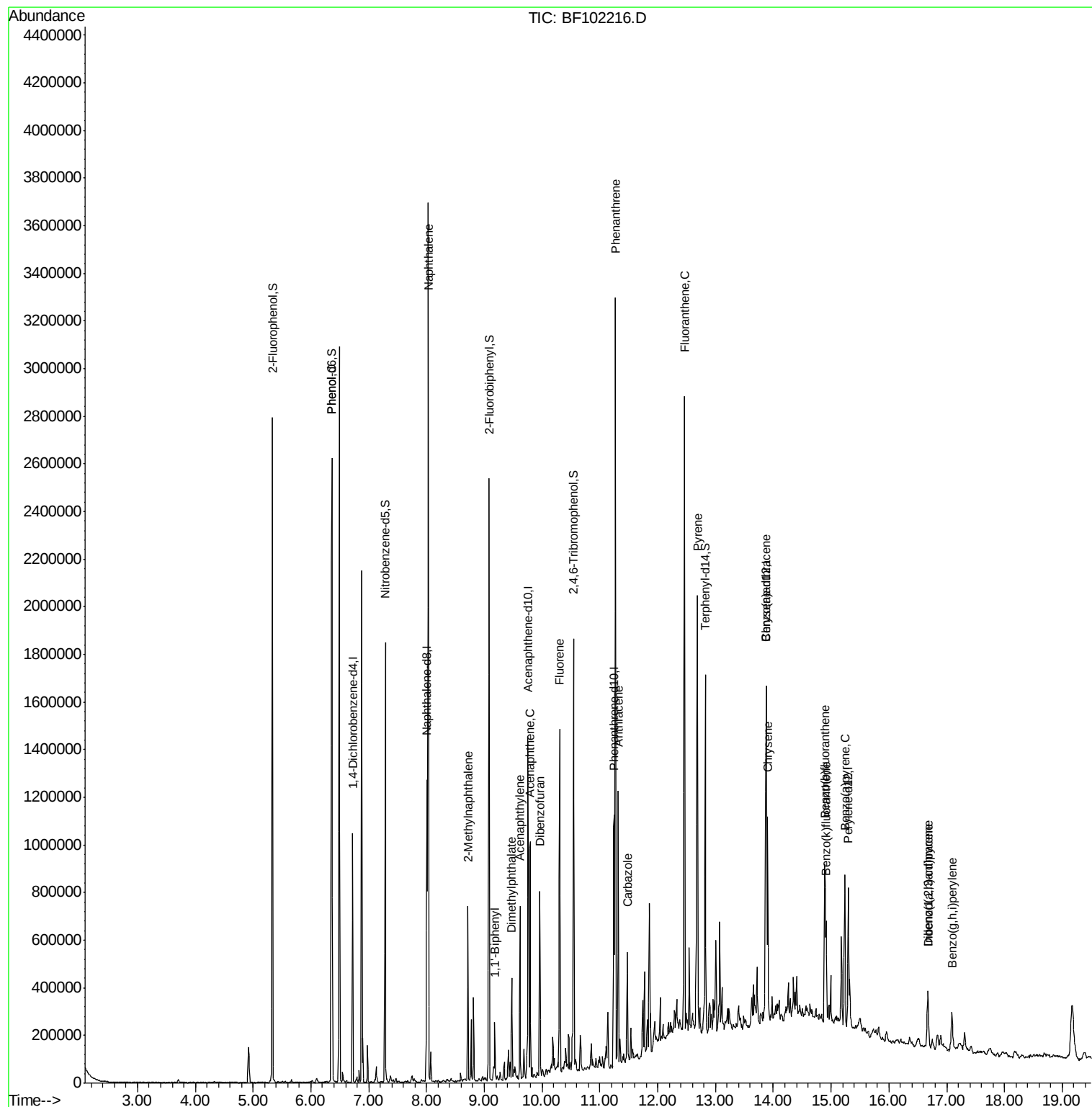
Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
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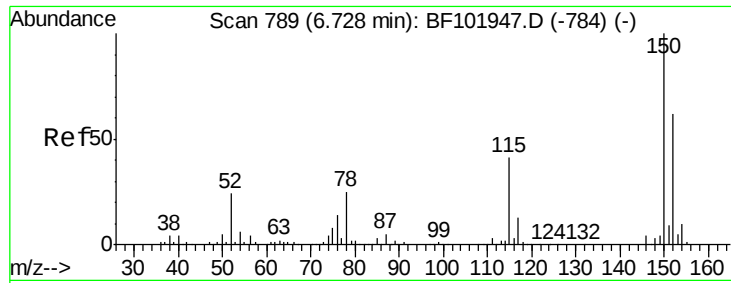
Instrument :
BNA_F
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A2 SB74 BOT-S_10

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Quant Time: Jan 19 14:00:10 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 19 13:31:35 2018
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#1

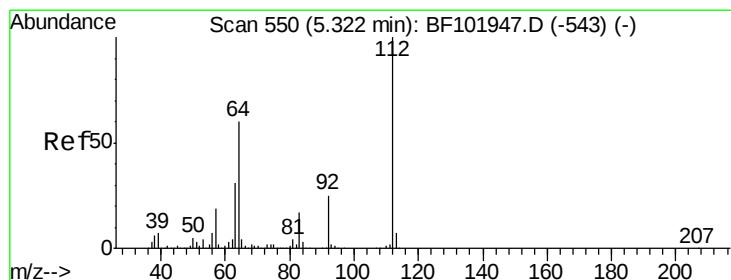
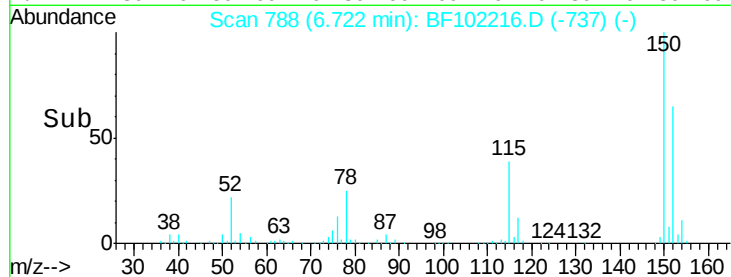
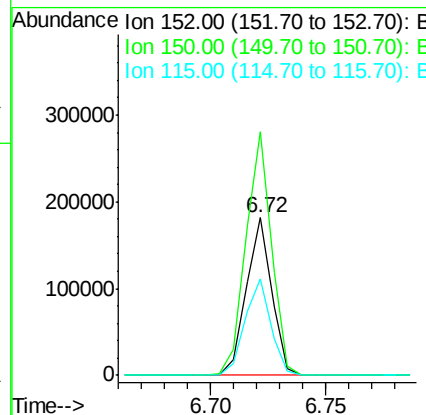
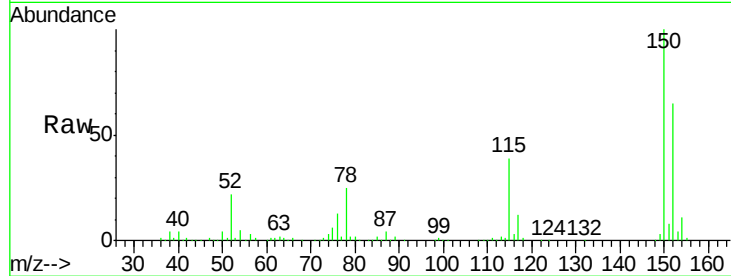
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.00 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	61.0	50.1	75.1

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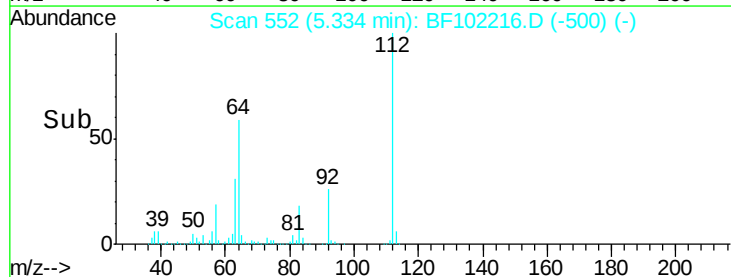
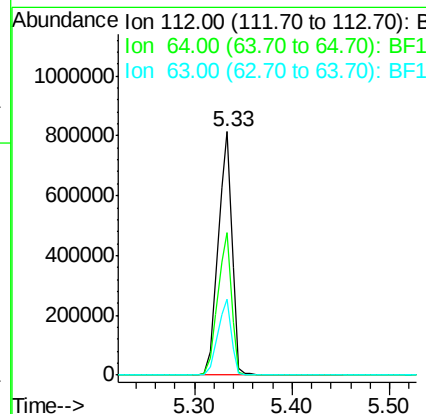
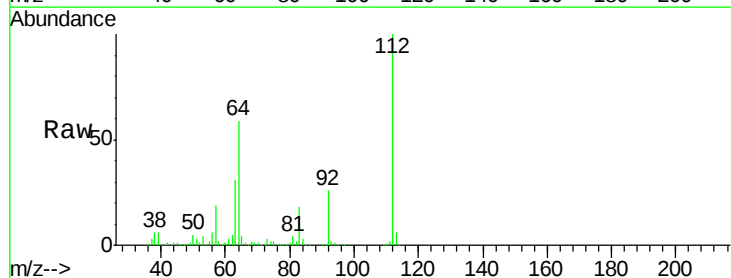
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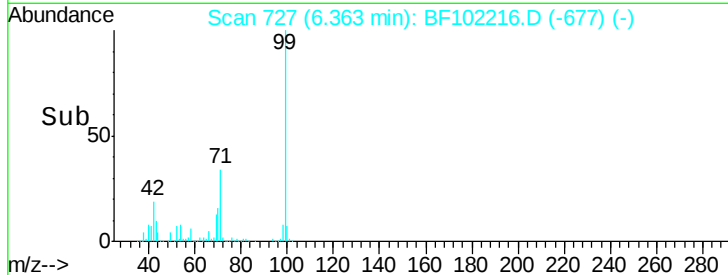
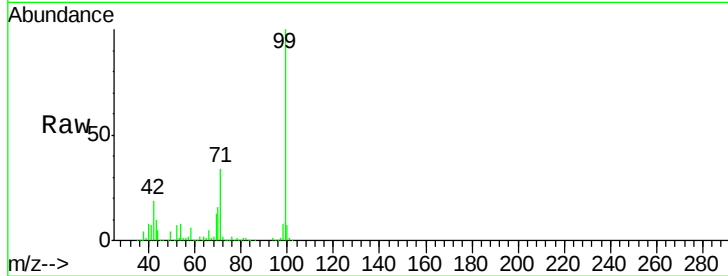
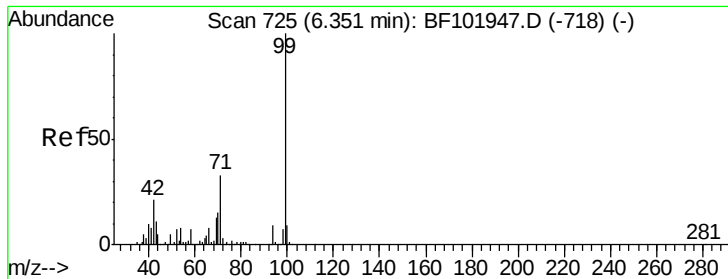


#5

2-Fluorophenol
Concen: 80.383 ng
RT: 5.33 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.9	71.9
63	31.1	23.7	35.5





#7

Phenol-d6

Concen: 80.396 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		946897		
42	19.4	14.5	21.7		
71	34.2	25.4	38.0		

Instrument :

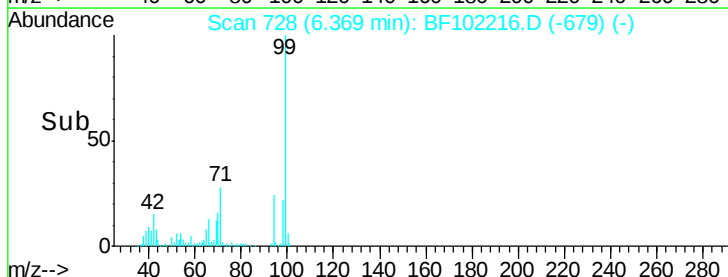
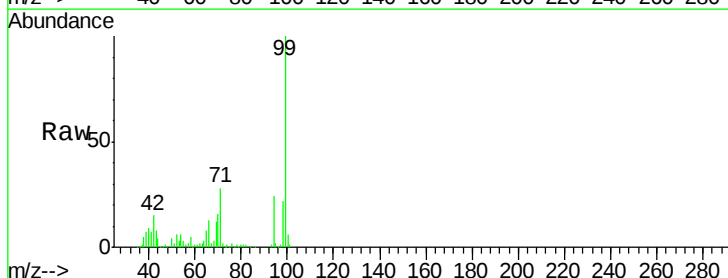
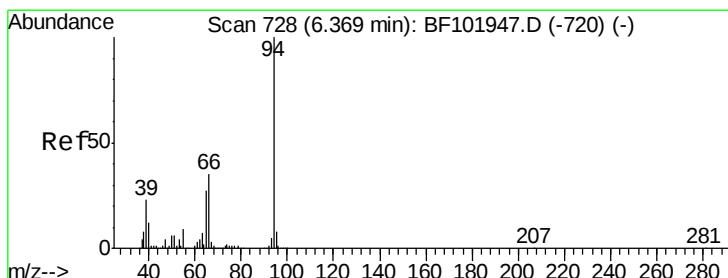
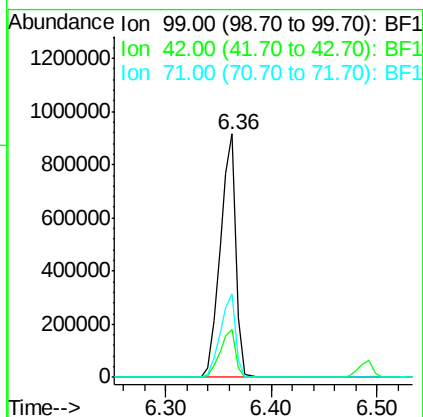
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 3.059 ng

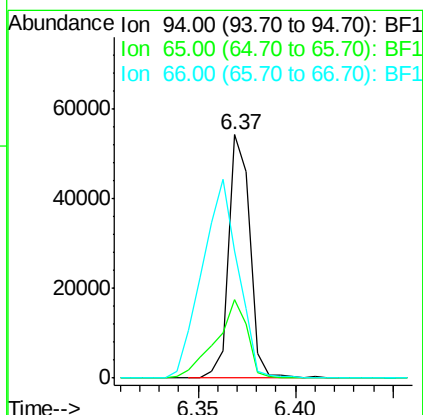
RT: 6.37 min Scan# 728

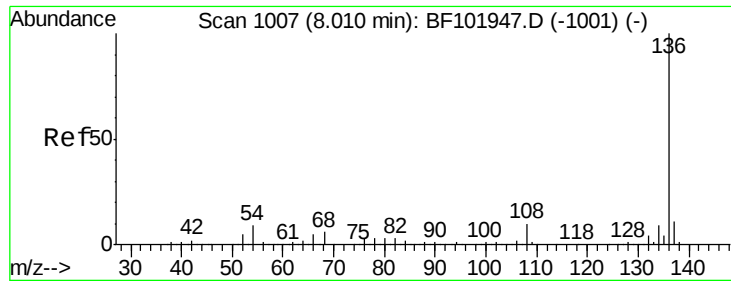
Delta R.T. -0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		40715		
65	32.4	7.9	47.9		
66	52.1	16.2	56.2		





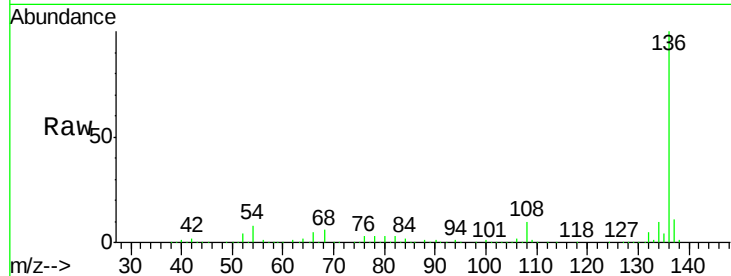
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

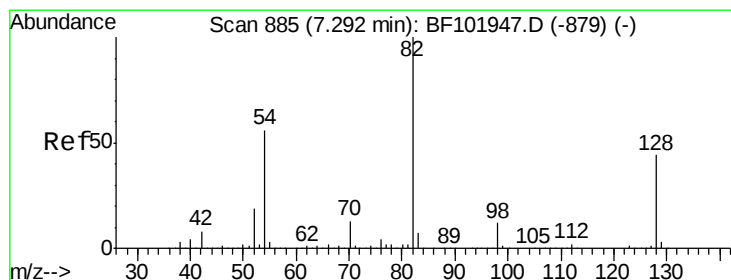
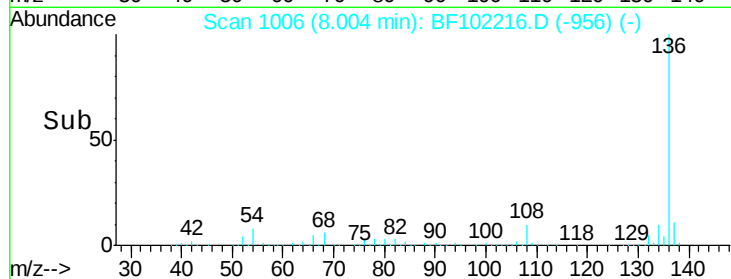
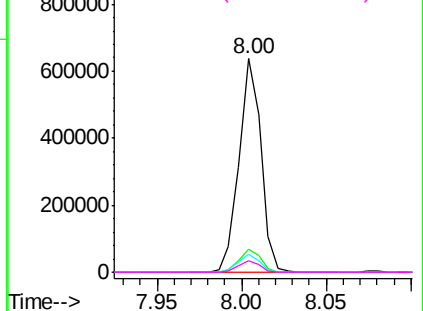
Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	10.6		8.9	13.3	
54	8.5		6.6	9.8	
68	5.5		5.0	7.4	

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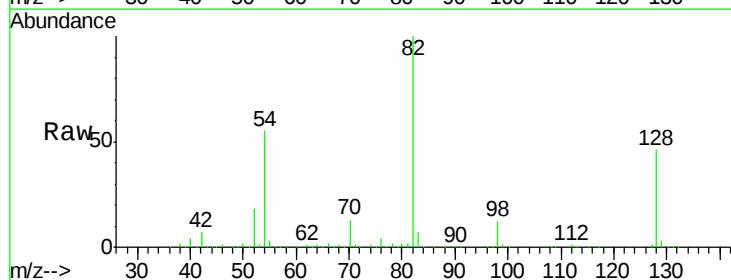


Abundance Ion 136.00 (135.70 to 136.70): E
1000000
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

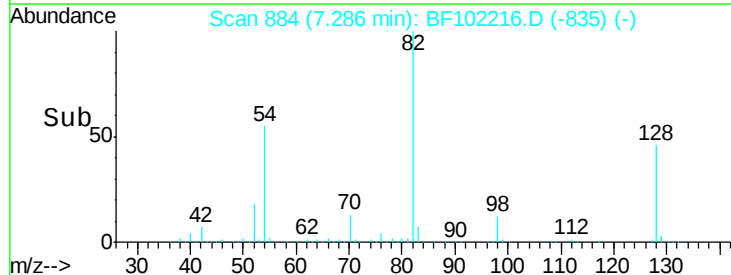
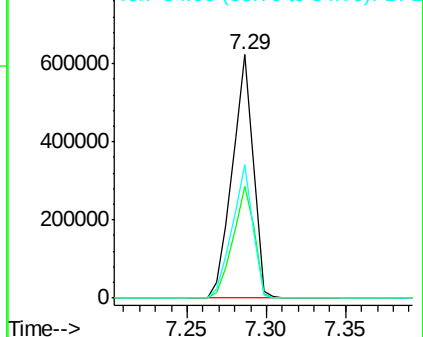


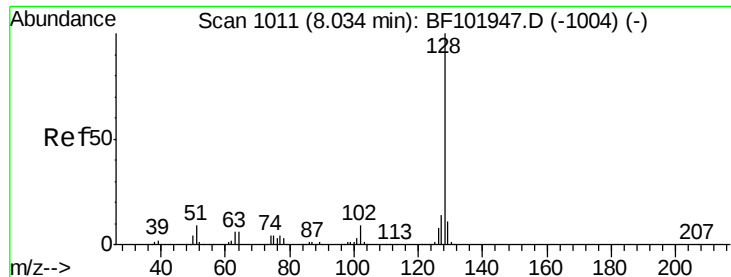
#23
Nitrobenzene-d5
Concen: 58.825 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	45.7		36.1	54.1	
54	54.8		41.4	62.2	



Abundance Ion 82.00 (81.70 to 82.70): BF1
800000
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





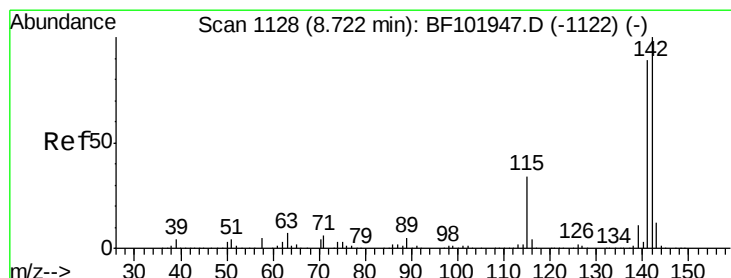
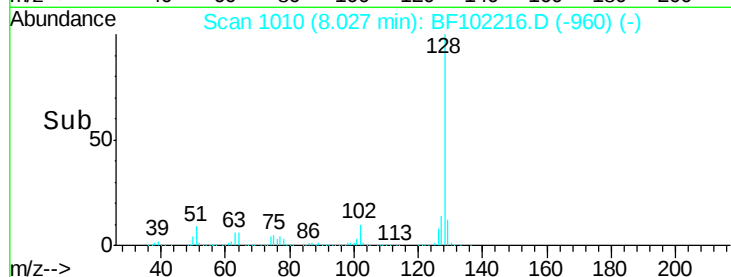
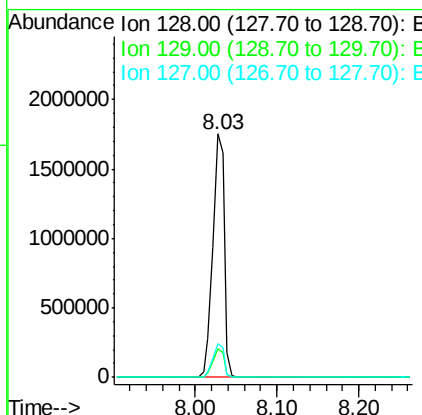
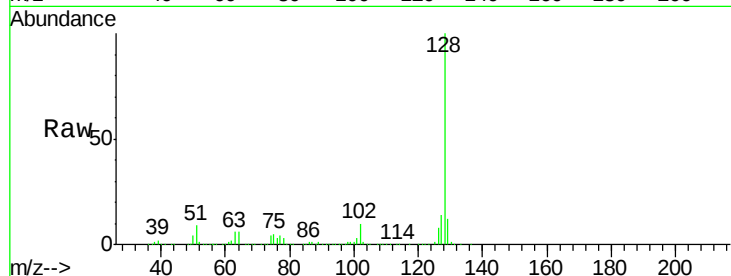
#31
Naphthalene
Concen: 59.527 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion:128 Resp: 1709275
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 14.0 10.9 16.3

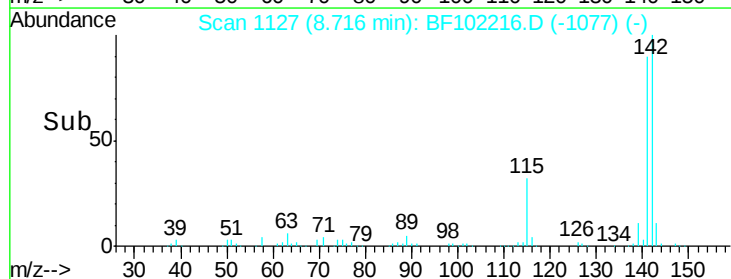
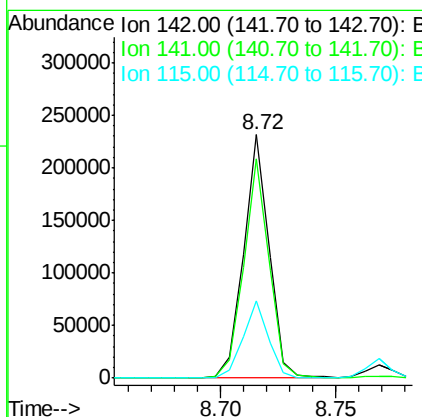
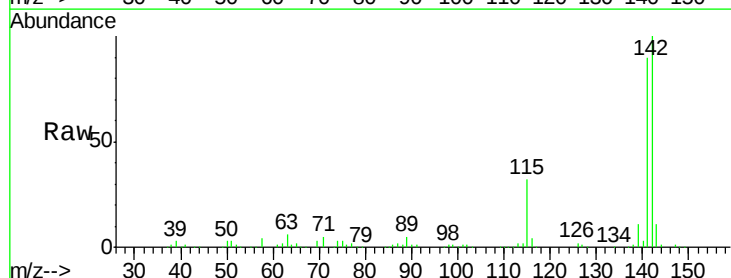
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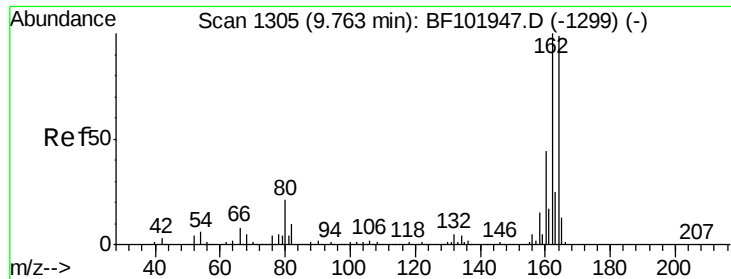
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#37
2-Methylnaphthalene
Concen: 9.475 ng
RT: 8.72 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion:142 Resp: 179102
Ion Ratio Lower Upper
142 100
141 90.2 70.8 106.2
115 31.6 26.1 39.1





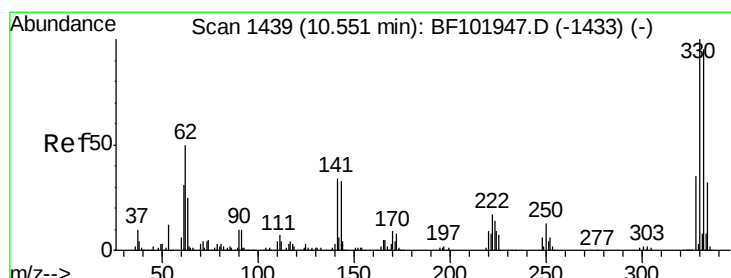
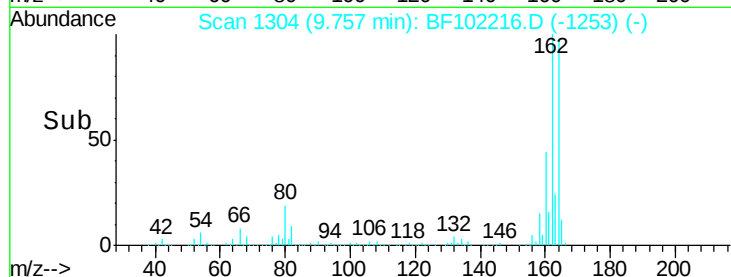
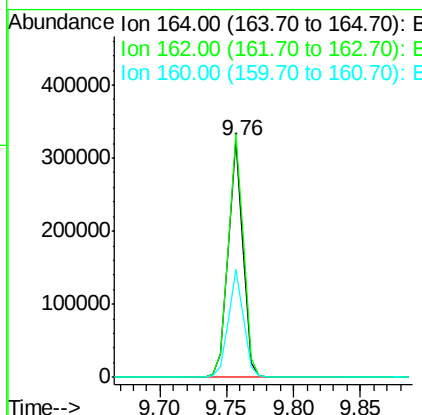
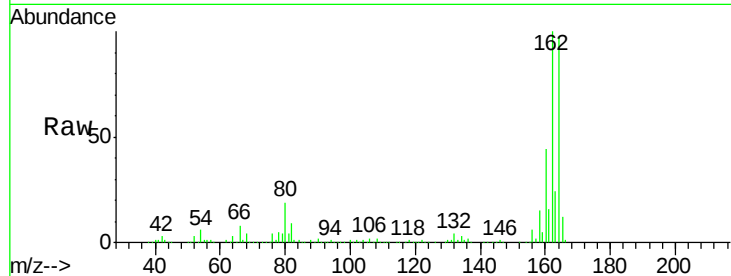
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: BF102216.D
 Acq: 19 Jan 2018 12:24

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-S_10

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.7	86.1	129.1	
160	45.6	38.3	57.5	

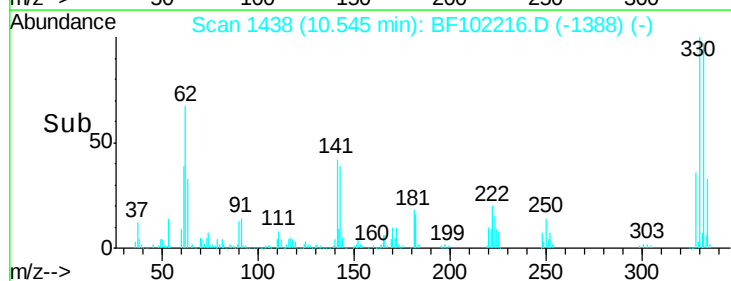
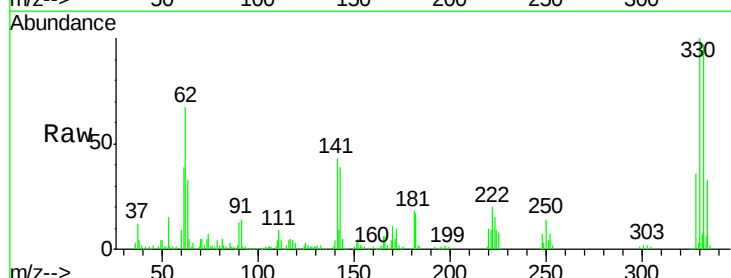
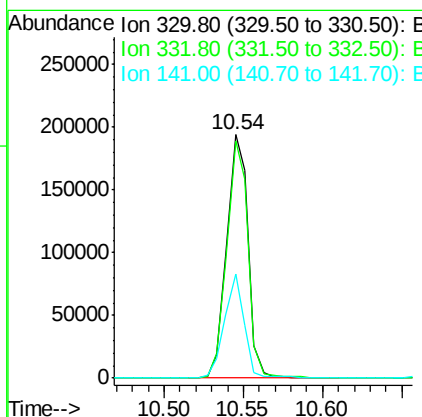
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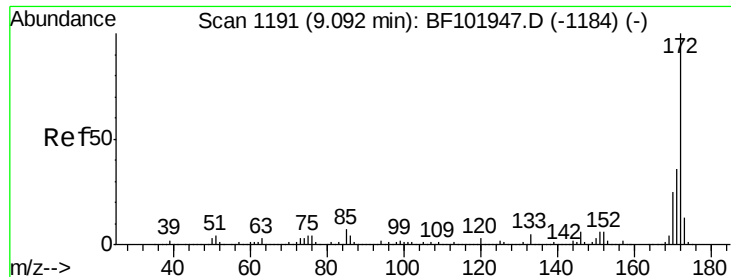
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#41
 2,4,6-Tribromophenol
 Concen: 81.108 ng
 RT: 10.54 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF102216.D
 Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.6	77.0	115.6	
141	39.8	29.9	44.9	





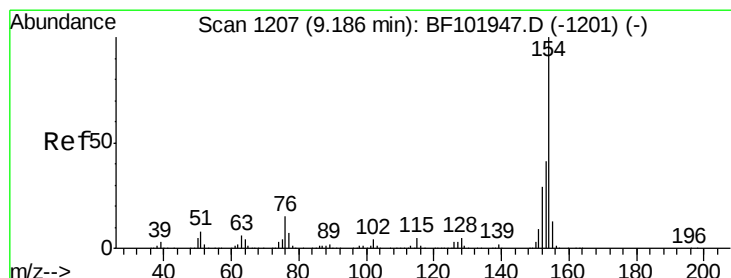
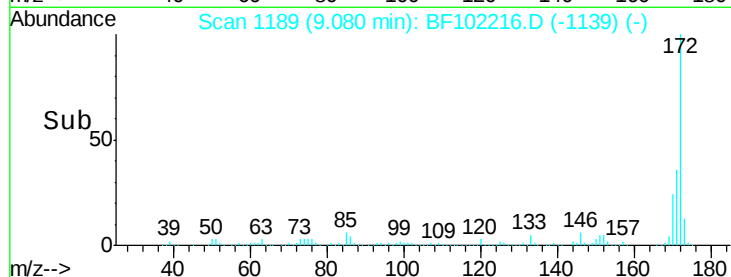
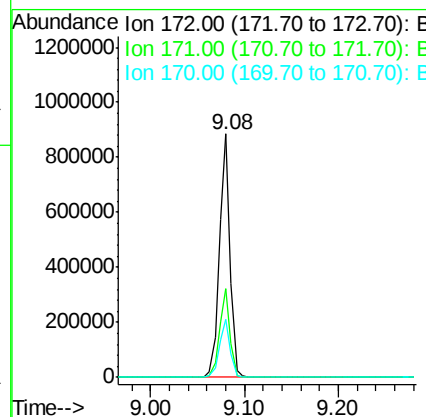
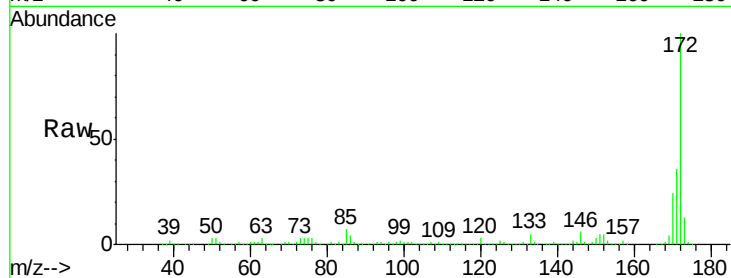
#44
2-Fluorobiphenyl
Concen: 43.329 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.7	44.5
170	23.7	19.6	29.4

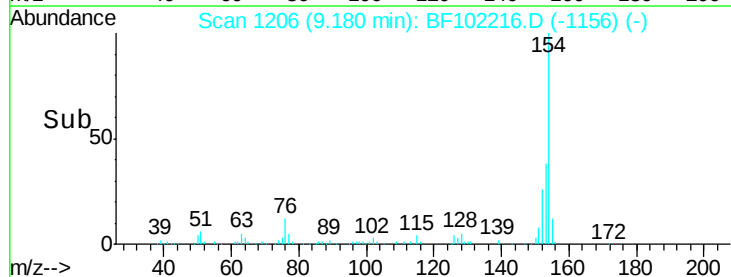
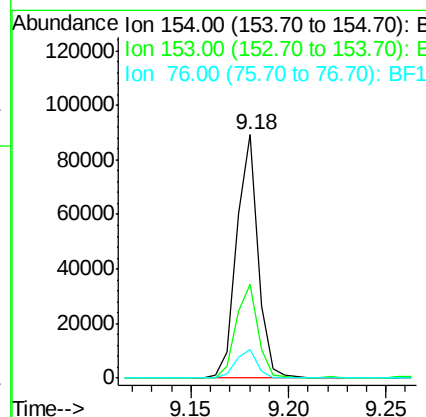
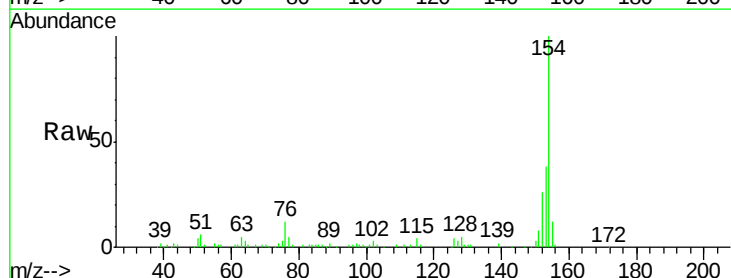
Manual Integrations
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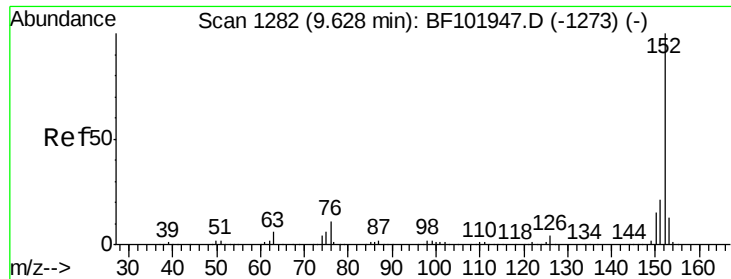
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#45
1,1'-Biphenyl
Concen: 2.991 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.4	21.3	61.3
76	11.8	0.0	34.0





#48

Acenaphthylene

Concen: 9.492 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

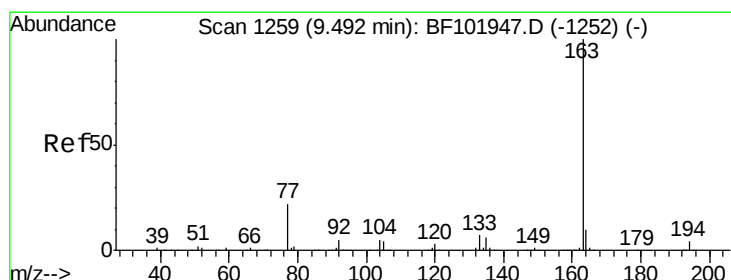
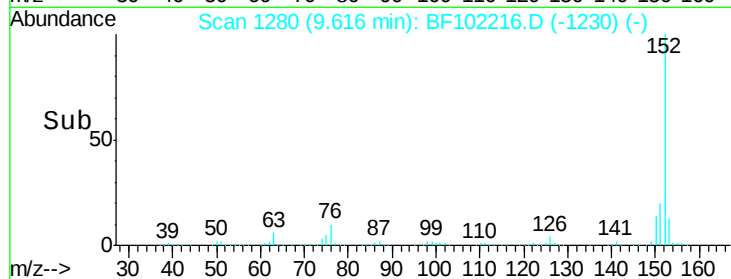
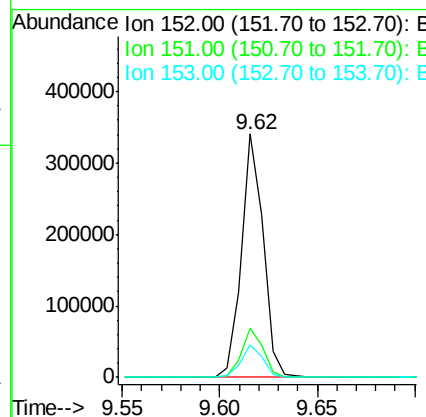
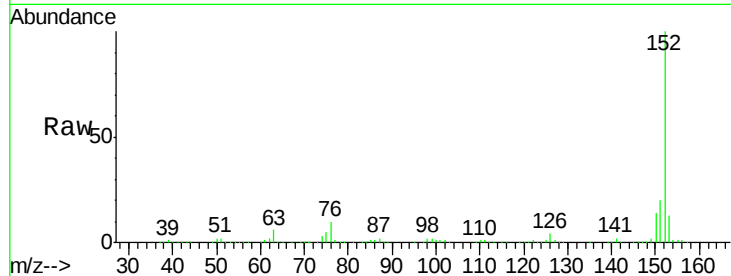
ClientSampleId :

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Tot Ion:	152	Resp:	264752
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.3	24.5
153	13.3	10.7	16.1

Manual Integrations
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#49

Dimethylphthalate

Concen: 6.548 ng

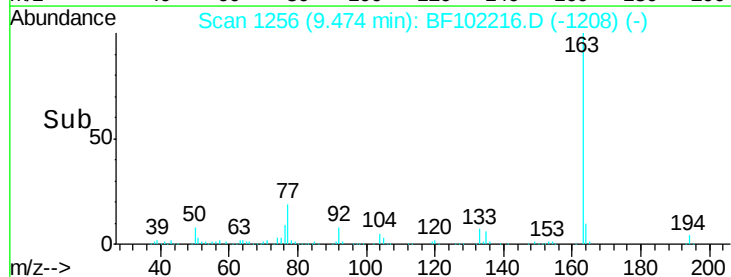
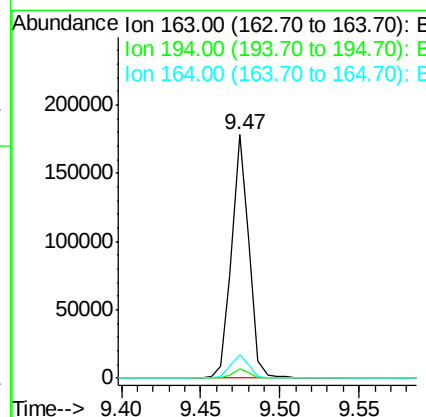
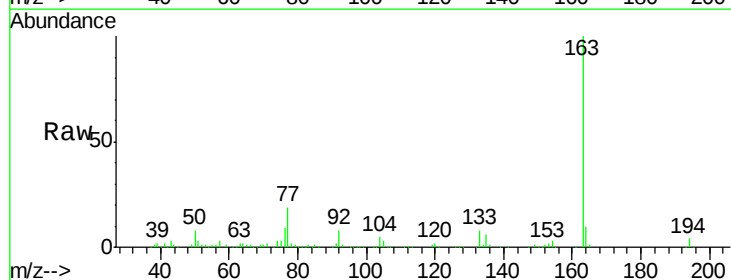
RT: 9.47 min Scan# 1256

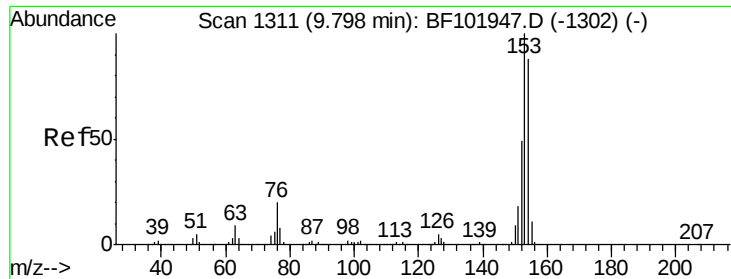
Delta R.T. -0.02 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tgt Ion:	163	Resp:	134684
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.7	4.1
164	9.7	8.2	12.2





#51

Acenaphthene

Concen: 12.655 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

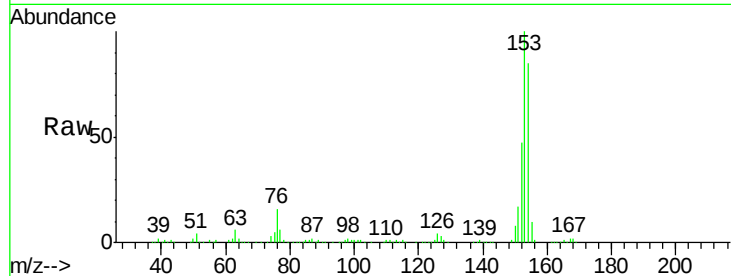
ClientSampleId :

A2 SB74 BOT-S_10

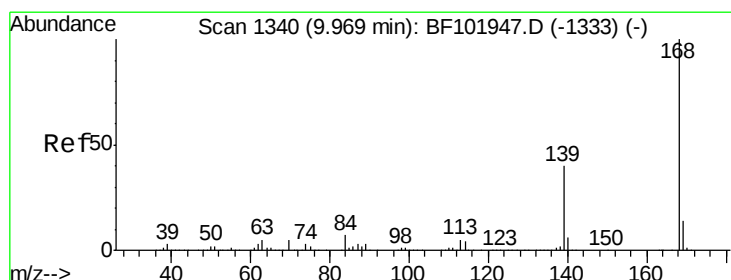
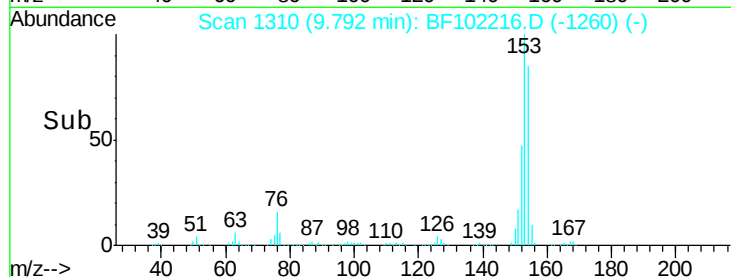
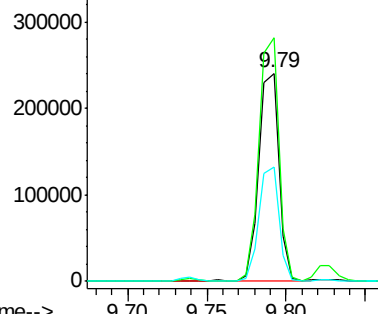
Tot Ion:	154	Resp:	214230
Ion Ratio	Lower	Upper	
154	100		
153	117.1	91.2	136.8
152	55.2	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 13.066 ng

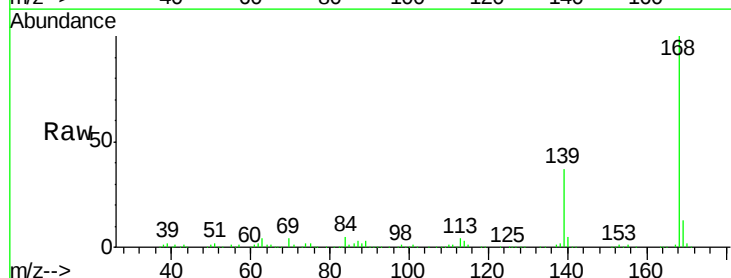
RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

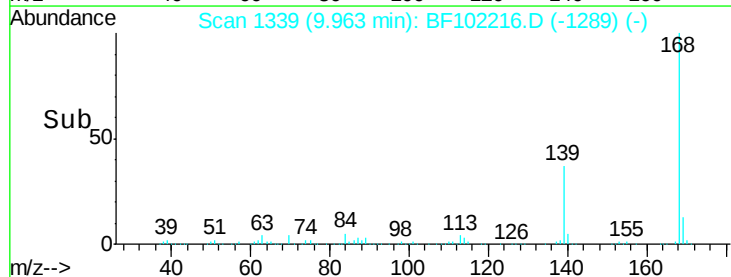
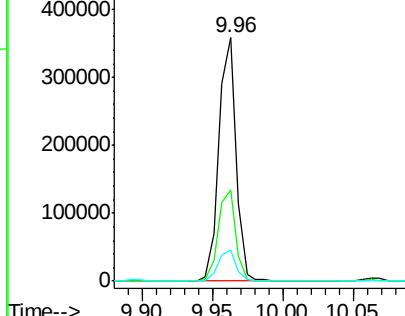
Lab File: BF102216.D

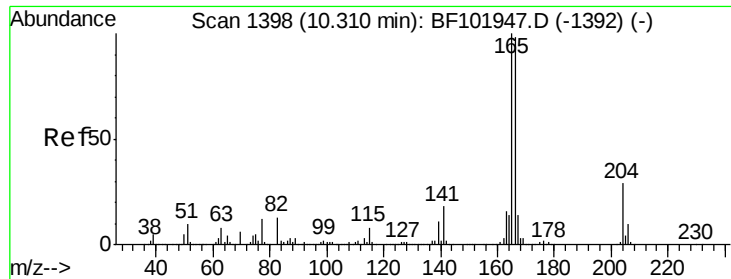
Acq: 19 Jan 2018 12:24

Tgt Ion:	168	Resp:	303566
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.1	45.1
169	12.8	10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





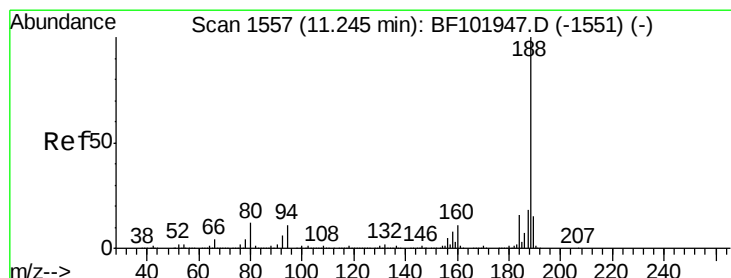
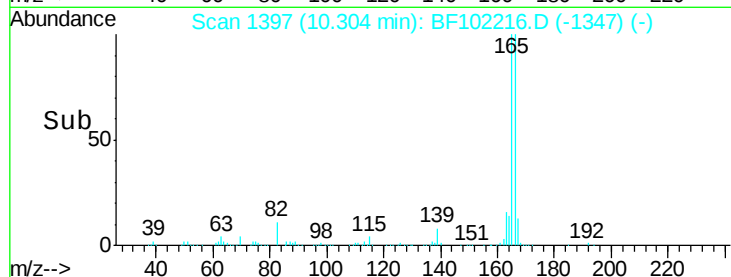
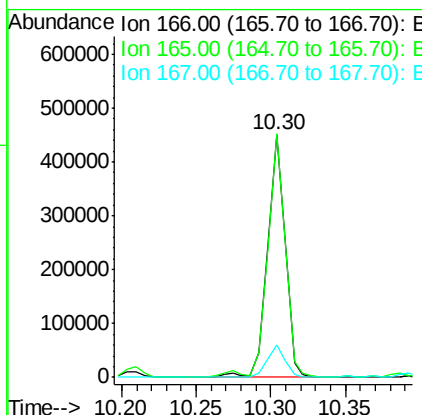
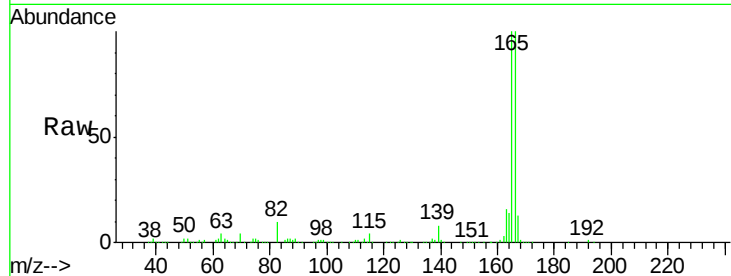
#57
Fluorene
 Concen: 22.930 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF102216.D
 Acq: 19 Jan 2018 12:24

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-S_10

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.4	79.8	119.8	
167	13.4	10.6	16.0	

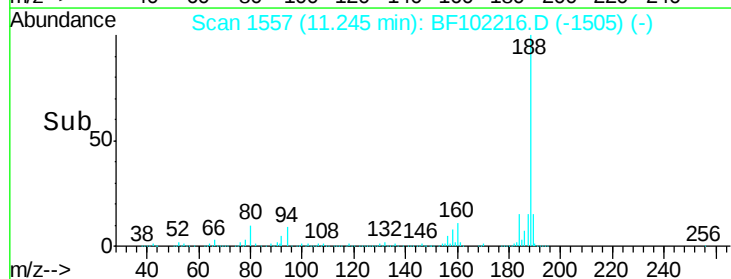
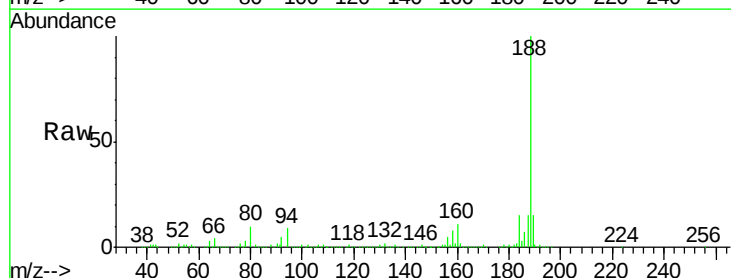
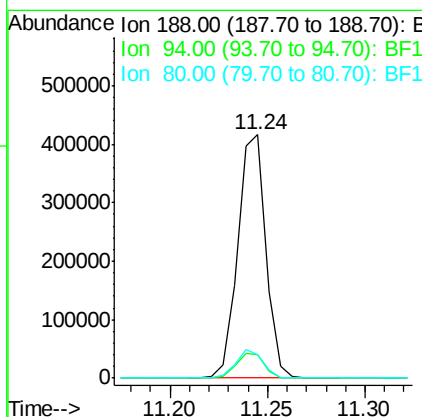
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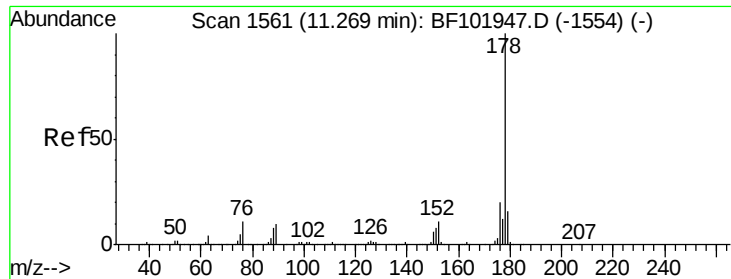
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. 0.01 min
 Lab File: BF102216.D
 Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	9.5	8.5	12.7	
80	9.5	9.2	13.8	





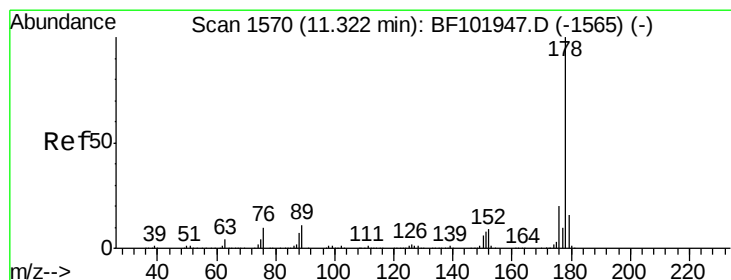
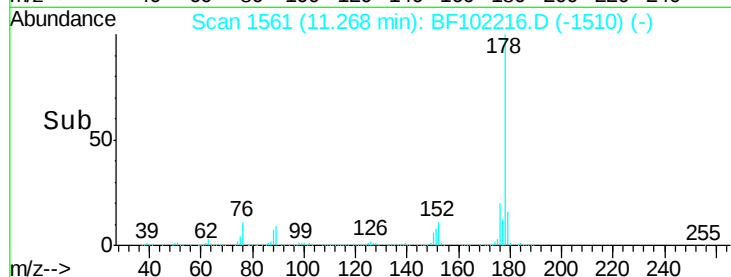
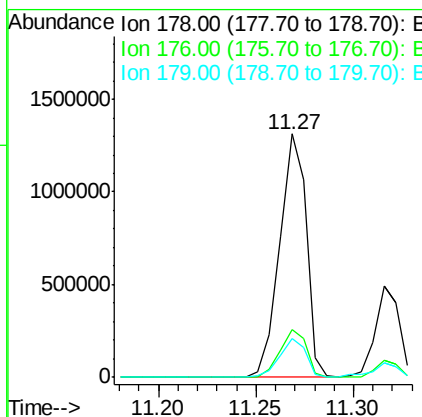
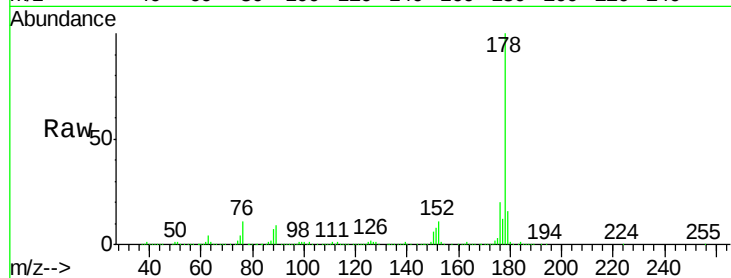
#70
Phenanthrene
Concen: 51.619 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion:178 Resp: 1242202
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.9 13.0 19.6

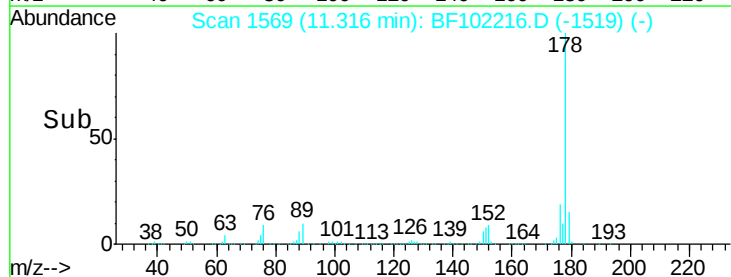
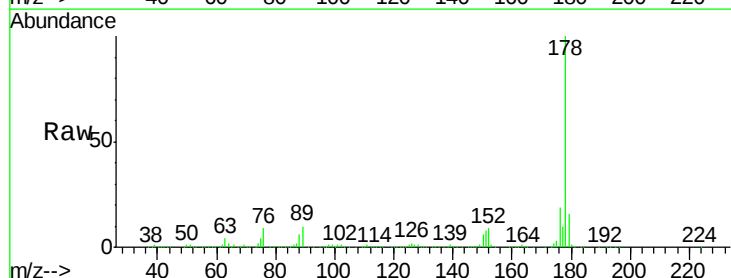
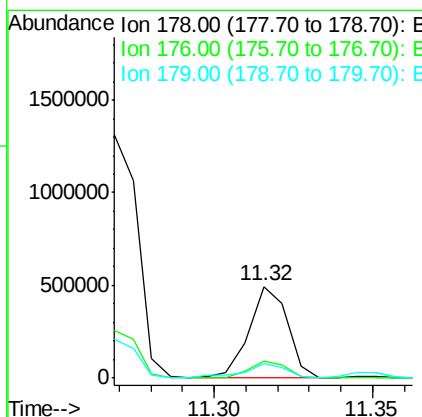
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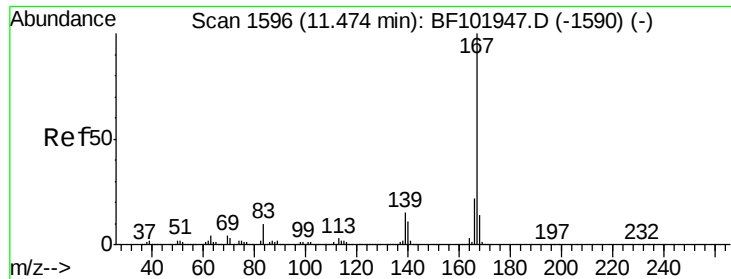
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#71
Anthracene
Concen: 16.768 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion:178 Resp: 409236
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.6 12.6 19.0





#72

Carbazole

Concen: 7.225 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

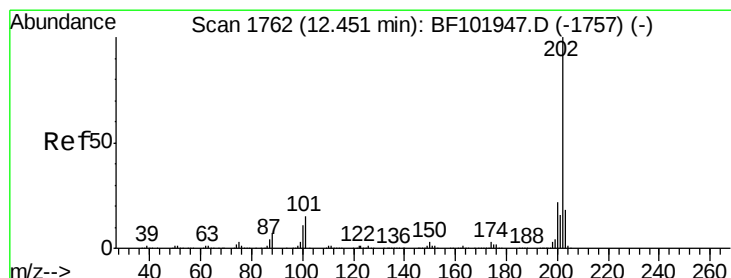
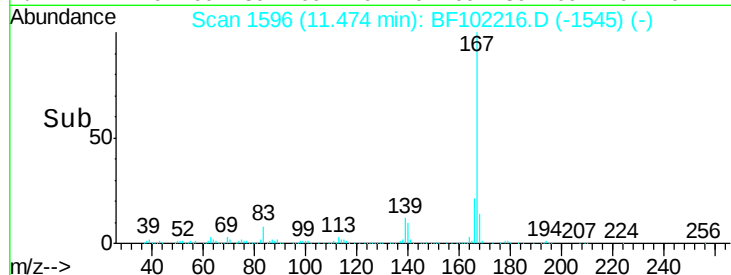
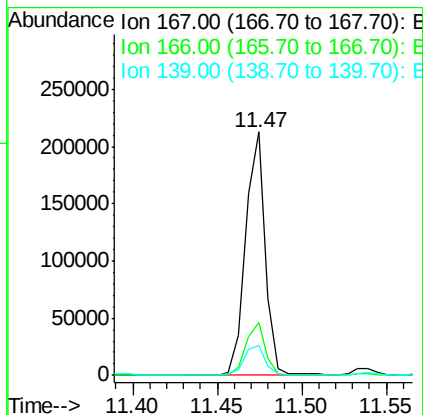
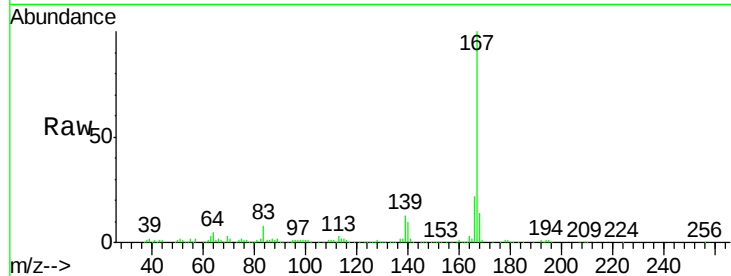
ClientSampleId :

A2 SB74 BOT-S_10

Tot Ion:	167	Resp:	173331
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.6	26.4
139	12.5	10.9	16.3

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#74

Fluoranthene

Concen: 42.780 ng

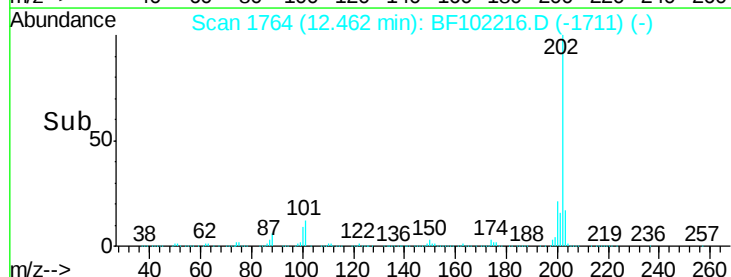
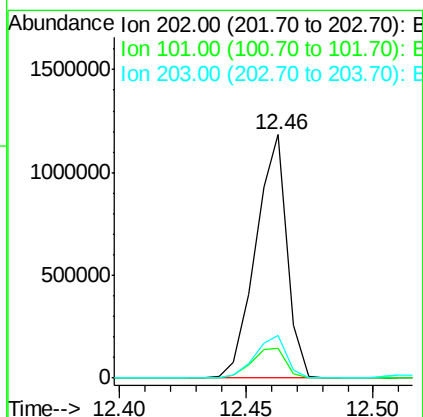
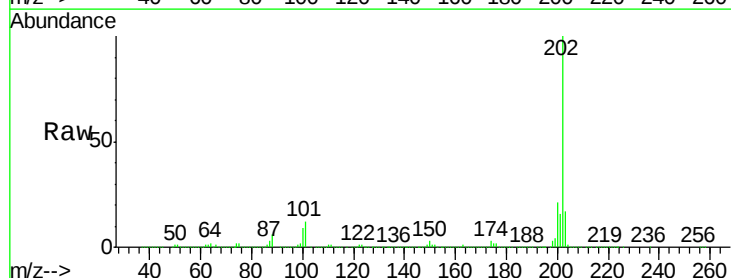
RT: 12.46 min Scan# 1764

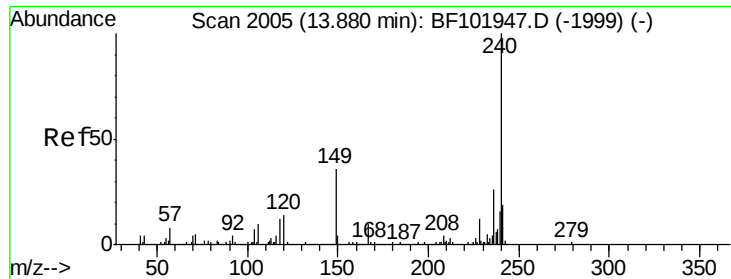
Delta R.T. 0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tgt Ion:	202	Resp:	1012895
Ion Ratio	Lower	Upper	
202	100		
101	12.2	0.0	34.1
203	17.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

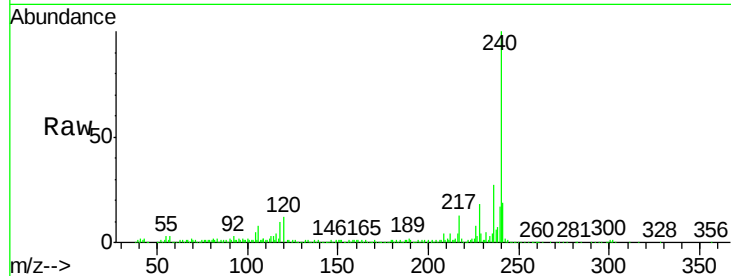
ClientSampleId :

A2 SB74 BOT-S_10

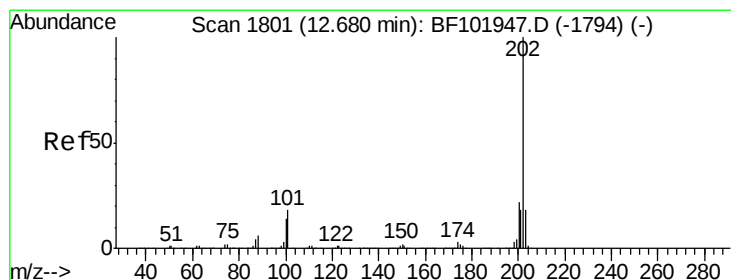
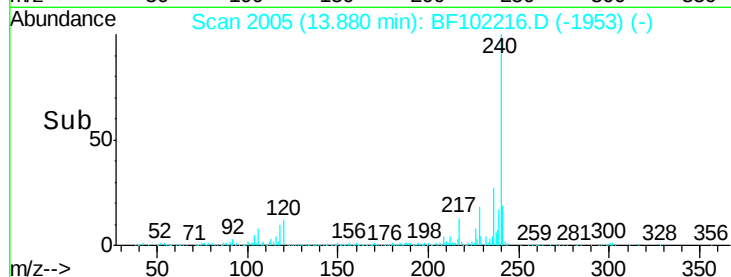
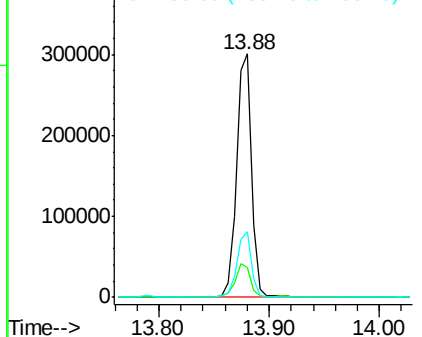
Tot Ion:	240	Resp:	285326
Ion Ratio	Lower	Upper	
240	100		
120	12.2	9.5	14.3
236	26.8	20.7	31.1

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



#77

Pyrene

Concen: 31.315 ng

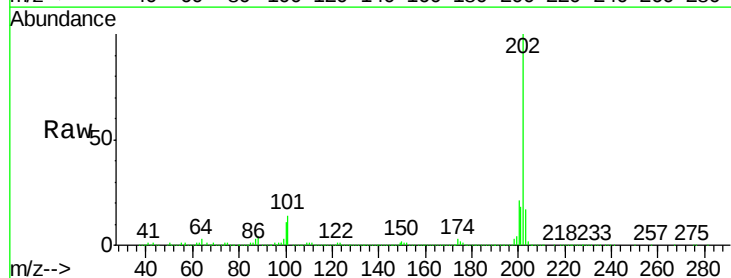
RT: 12.69 min Scan# 1802

Delta R.T. 0.01 min

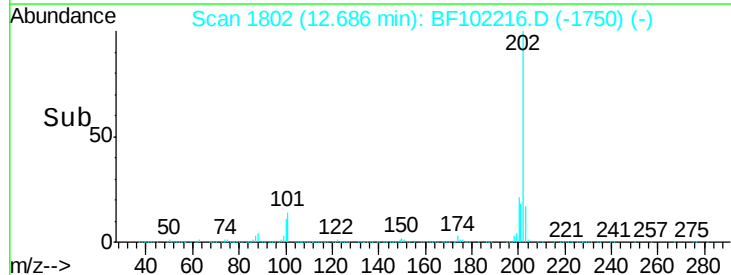
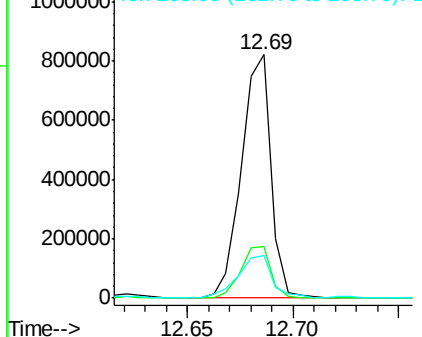
Lab File: BF102216.D

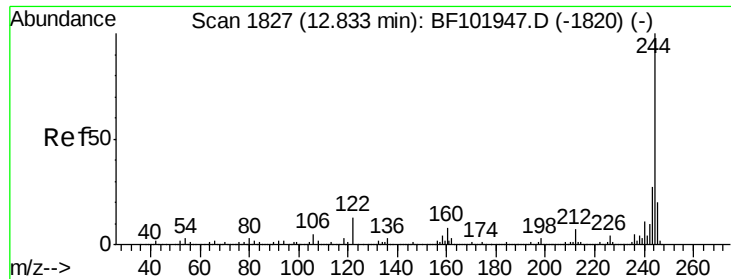
Acq: 19 Jan 2018 12:24

Tgt Ion:	202	Resp:	789799
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	17.4	14.3	21.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 37.107 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.00 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

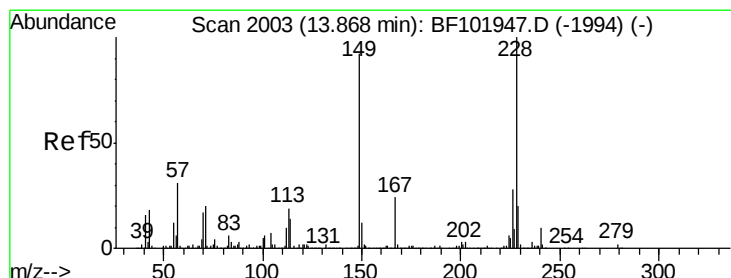
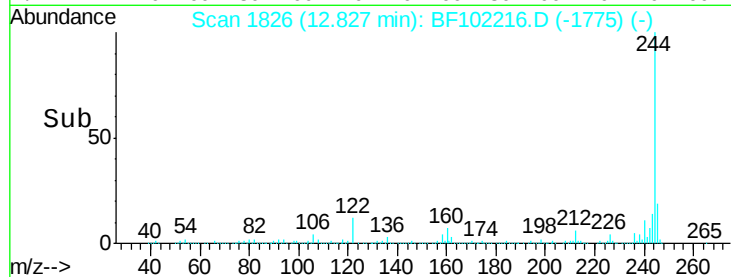
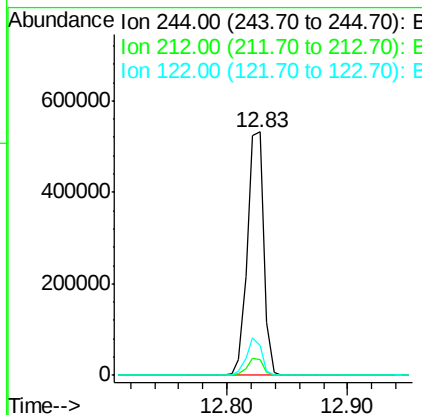
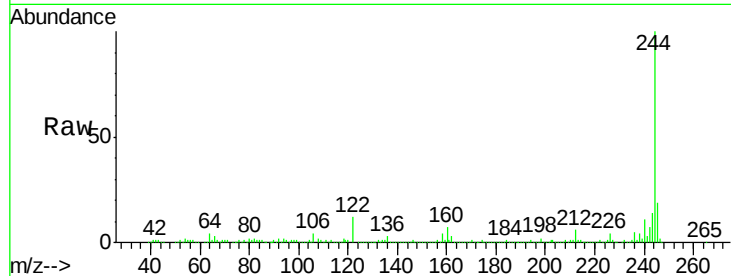
ClientSampleId :

A2 SB74 BOT-S_10

Tot Ion:	244	Resp:	509941
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	12.2	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 21.980 ng m

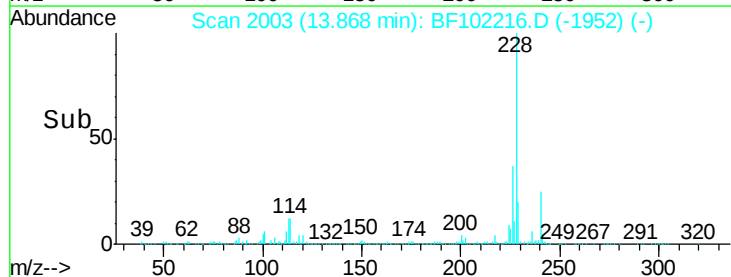
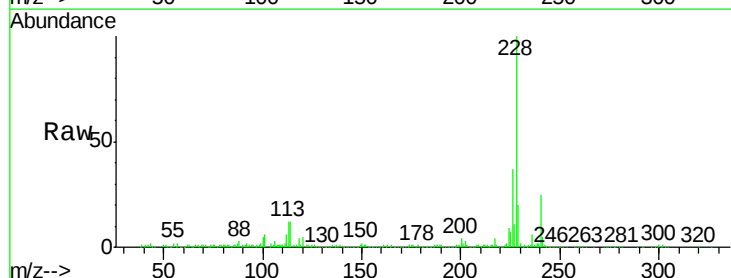
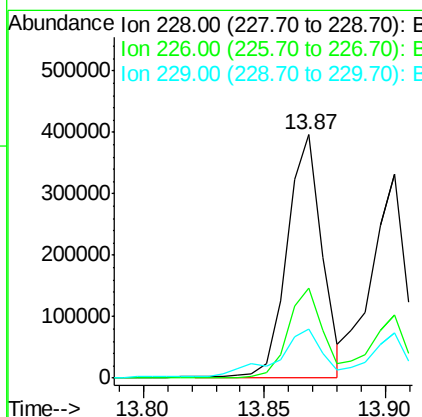
RT: 13.87 min Scan# 2003

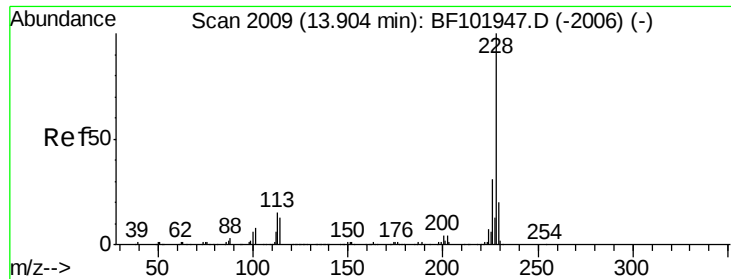
Delta R.T. -0.00 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tgt Ion:	228	Resp:	400144
Ion Ratio	Lower	Upper	
228	100		
226	37.1	22.6	33.8#
229	20.3	15.8	23.6





#82

Chrysene

Concen: 16.796 ng

RT: 13.90 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Instrument :

BNA_F

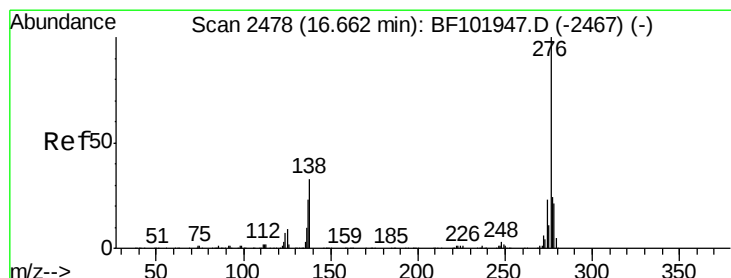
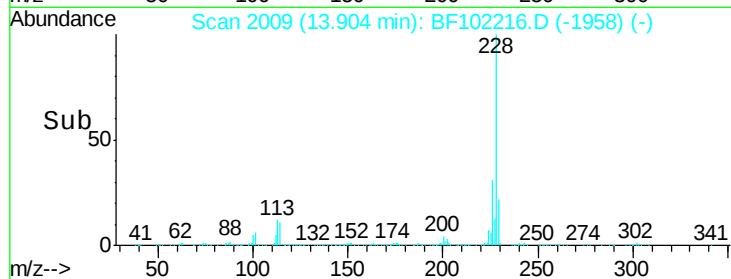
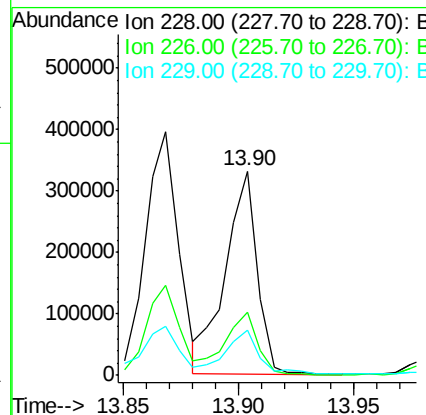
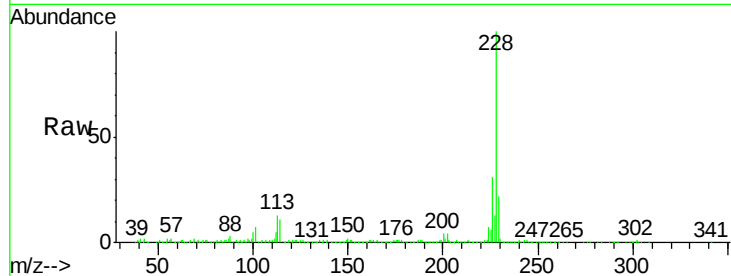
ClientSampleId :

A2 SB74 BOT-S_10

Tot Ion:	228	Resp:	318828
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.0	37.6
229	22.0	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 10.125 ng

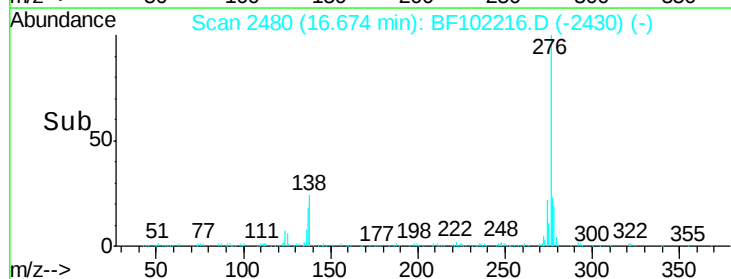
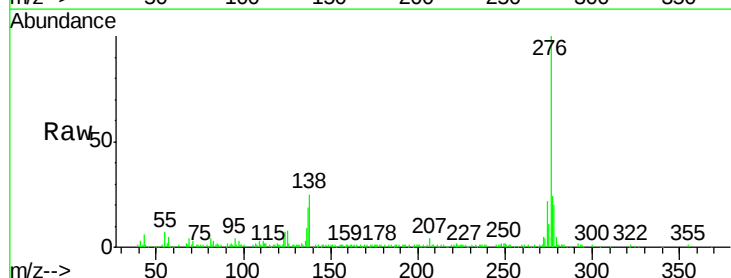
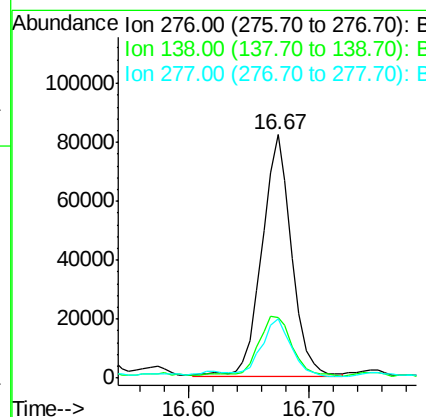
RT: 16.67 min Scan# 2480

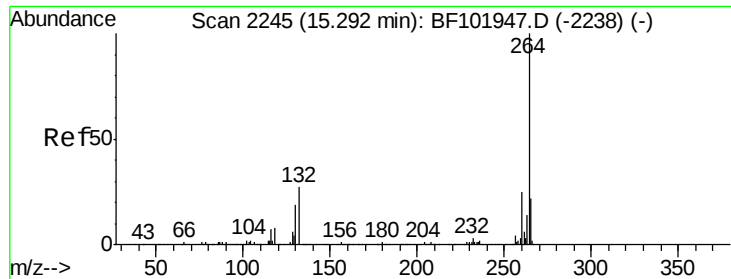
Delta R.T. -0.01 min

Lab File: BF102216.D

Acq: 19 Jan 2018 12:24

Tgt Ion:	276	Resp:	139887
Ion Ratio	Lower	Upper	
276	100		
138	28.1	25.0	37.6
277	24.1	20.1	30.1





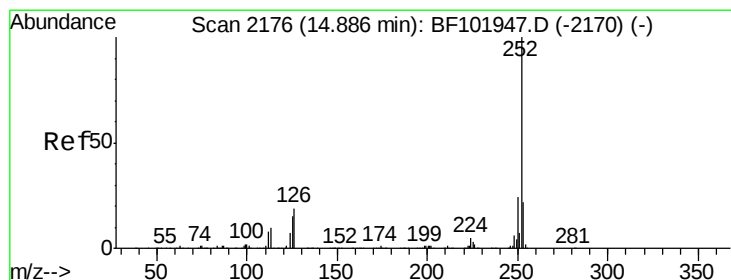
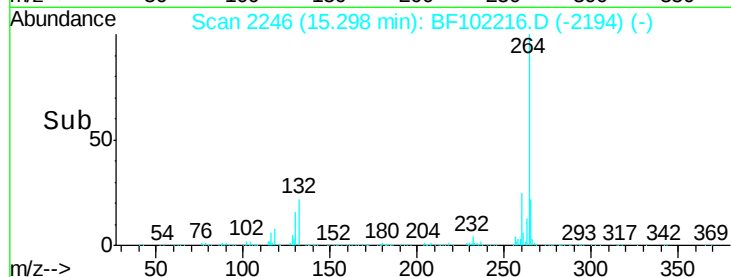
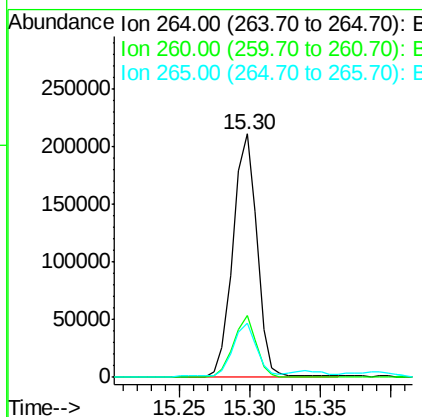
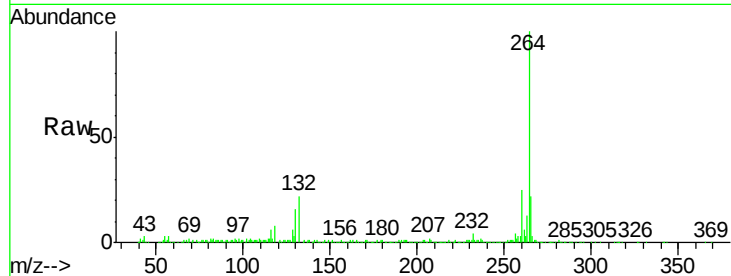
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.2	28.8
265	22.2	17.5	26.3

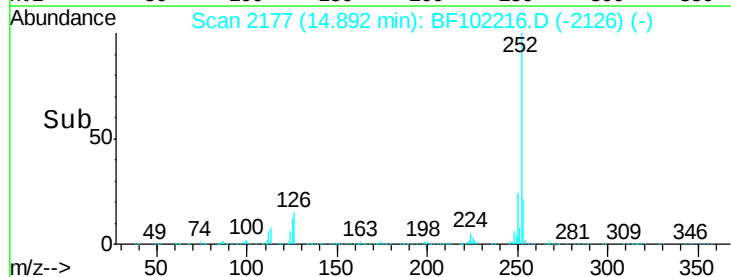
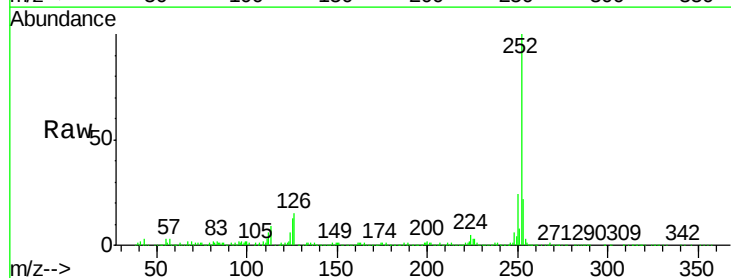
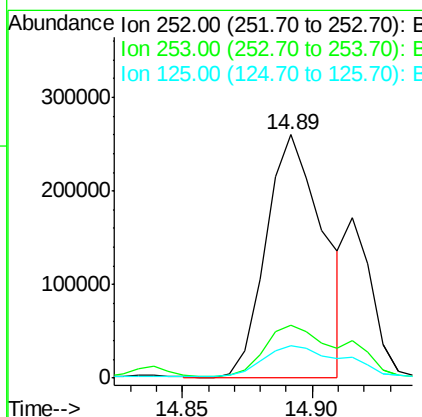
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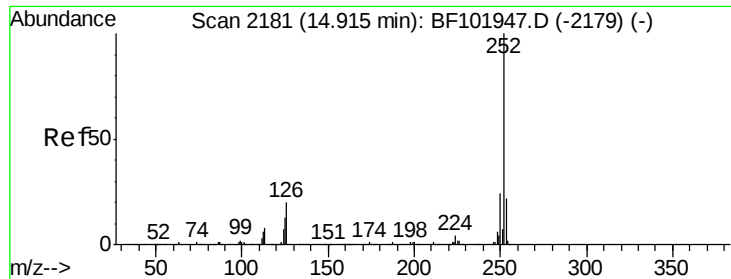
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#87
Benzo(b)fluoranthene
Concen: 24.316 ng m
RT: 14.89 min Scan# 2177
Delta R.T. -0.00 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.0	25.6
125	13.2	9.0	13.6





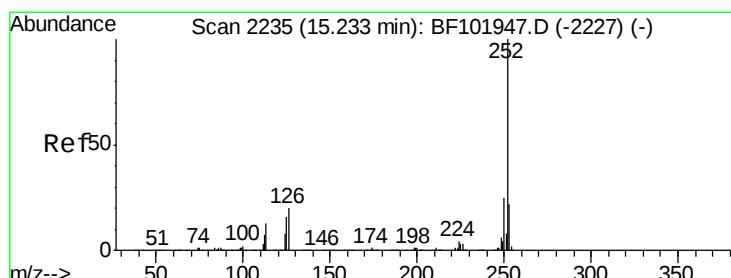
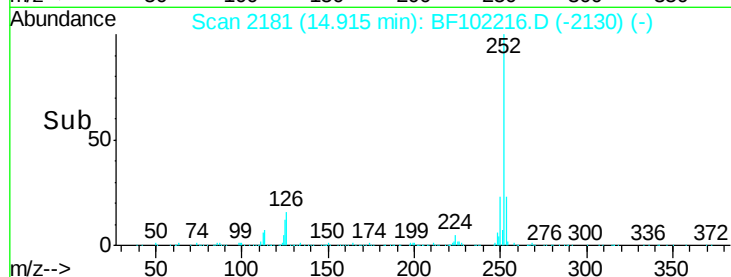
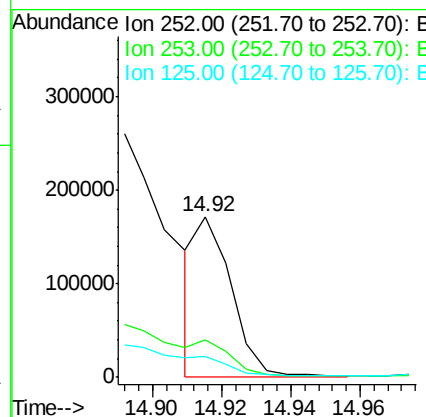
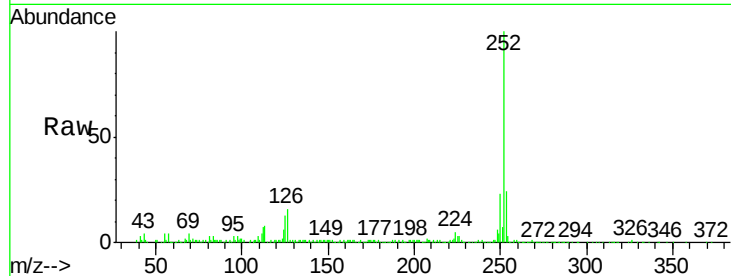
#88
Benzo(k)fluoranthene
Concen: 7.787 ng m
RT: 14.92 min Scan# 2181
Delta R.T. -0.00 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	12.8	10.2	15.2

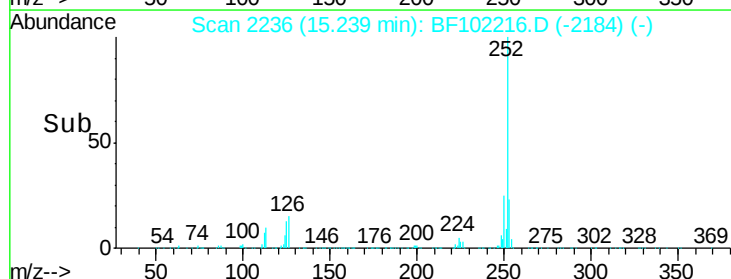
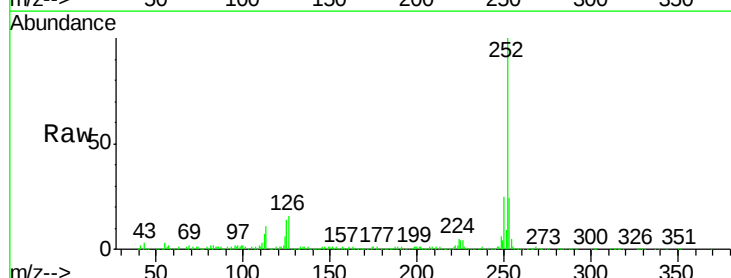
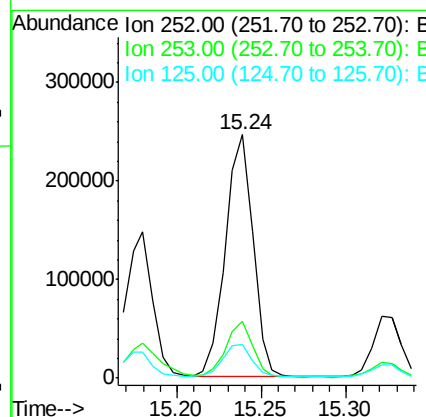
Manual Integrations
APPROVED

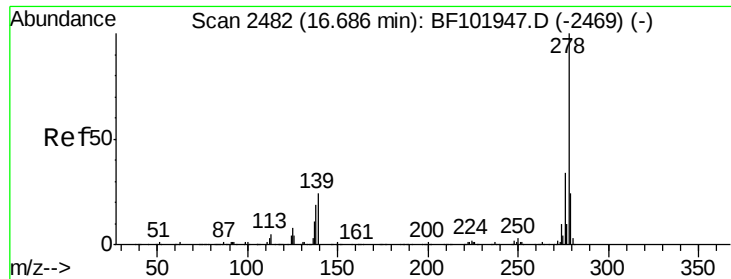
Sohil
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#89
Benzo(a)pyrene
Concen: 19.120 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	14.0	9.8	14.6





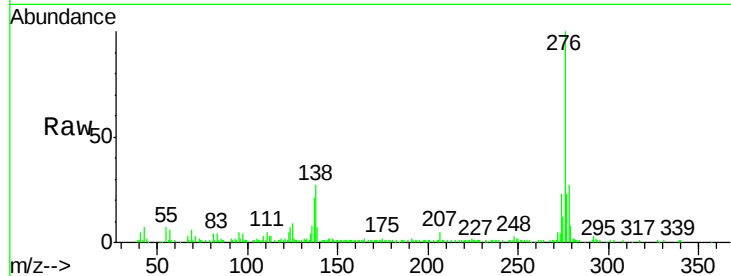
#90
Dibenzo(a,h)anthracene
Concen: 2.909 ng
RT: 16.68 min Scan# 2481
Delta R.T. -0.02 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-S_10

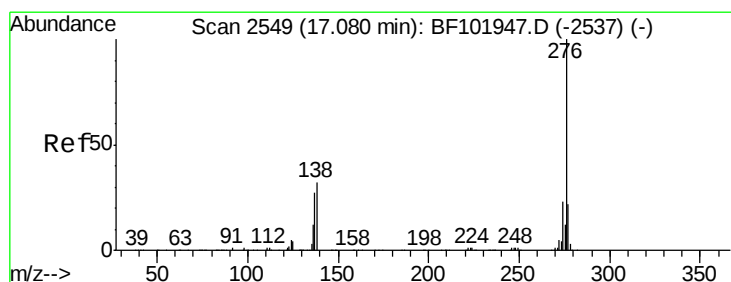
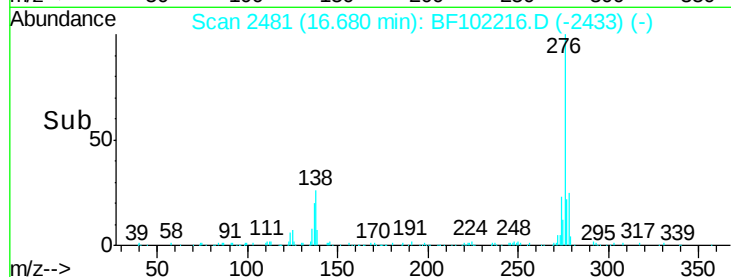
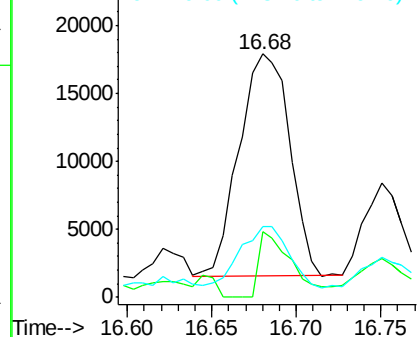
Tot Ion	Ratio	Lower	Upper
278	100		
139	26.8	15.9	23.9#
279	29.1	19.0	28.4#

Manual Integrations
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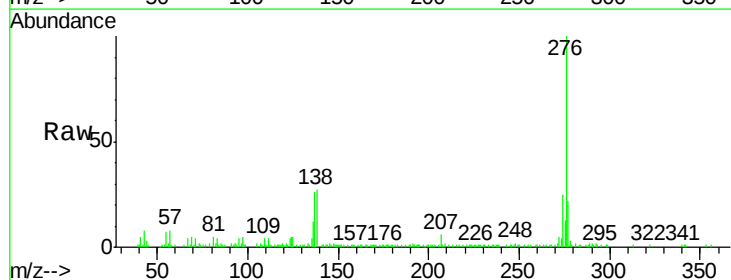


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 10.002 ng
RT: 17.09 min Scan# 2551
Delta R.T. -0.01 min
Lab File: BF102216.D
Acq: 19 Jan 2018 12:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.2	17.9	26.9
138	27.0	21.8	32.8



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

