

Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
 Data File : BF102426.D
 Acq On : 25 Jan 2018 15:13
 Operator : SJ/JU
 Sample : J1308-01DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8DL

Manual Integrations
 APPROVED

Sohil
 1/25/2018 5:43:16 PM

Quant Time: Jan 25 15:59:43 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 25 13:44:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	123256	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	500495	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	218399	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	339747	20.00	ng	0.00
75) Chrysene-d12	13.87	240	236510	20.00	ng	0.00
86) Perylene-d12	15.30	264	232781	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	5127	0.63	ng	0.00
7) Phenol-d6	6.37	99	7896	0.81	ng	0.00
23) Nitrobenzene-d5	7.29	82	4573	0.53	ng	0.00
41) 2,4,6-Tribromophenol	10.54	330	1213	0.56	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	10344	0.70	ng	0.00
78) Terphenyl-d14	12.82	244	8702	0.83	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.02	128	1583163	63.355	ng	99
37) 2-Methylnaphthalene	8.71	142	125445	7.538	ng	99
45) 1,1'-Biphenyl	9.17	154	49637	2.542	ng	98
48) Acenaphthylene	9.61	152	231536	9.791	ng	99
51) Acenaphthene	9.79	154	225010	16.292	ng	99
54) Dibenzofuran	9.96	168	272791	14.594	ng	98
57) Fluorene	10.30	166	341945	23.087	ng	98
70) Phenanthrene	11.27	178	1105850	55.857	ng	98
71) Anthracene	11.32	178	360072	17.819	ng	99
72) Carbazole	11.47	167	151197	7.670	ng	98
74) Fluoranthene	12.45	202	756160	37.454	ng	99
77) Pyrene	12.68	202	552017	30.188	ng	99
80) Benzo(a)anthracene	13.87	228	236053m	16.211	ng	
82) Chrysene	13.90	228	187119	12.655	ng	98
85) Indeno(1,2,3-cd)pyrene	16.69	276	77961	6.384	ng	96
87) Benzo(b)fluoranthene	14.90	252	208038m	13.789	ng	
88) Benzo(k)fluoranthene	14.92	252	86822m	6.091	ng	
89) Benzo(a)pyrene	15.24	252	172761	12.696	ng	97
91) Benzo(a,h,i)perylene	17.12	276	65950	6.060	ng	100

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

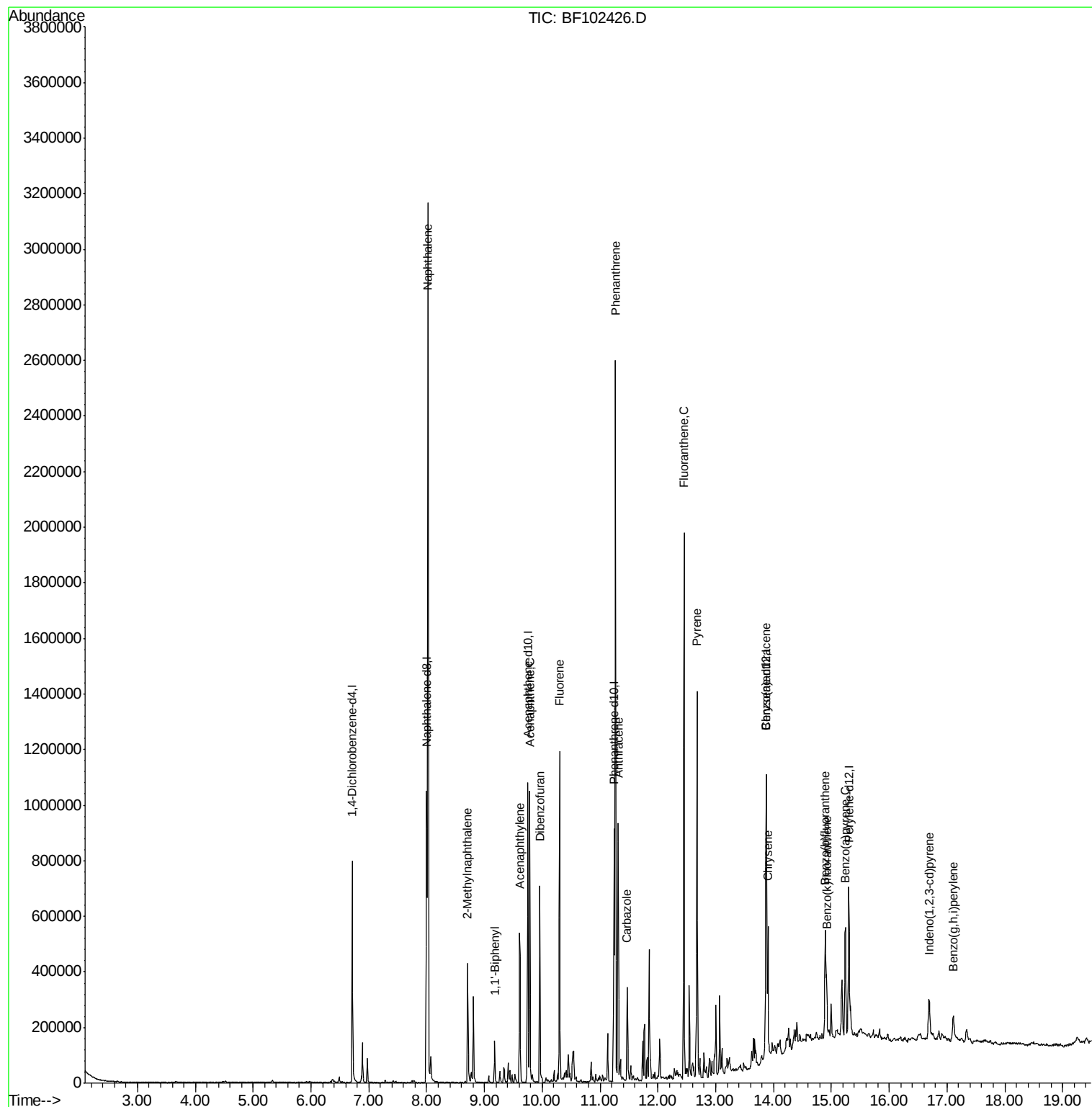
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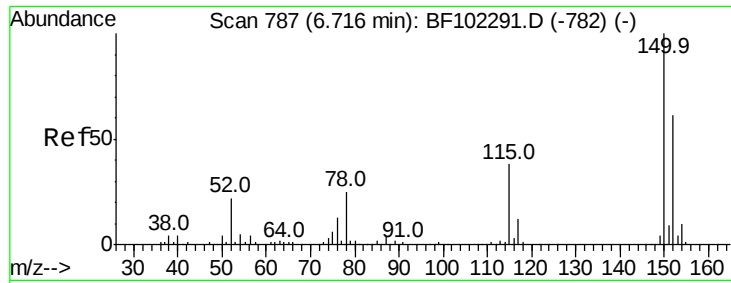
Instrument :
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#1

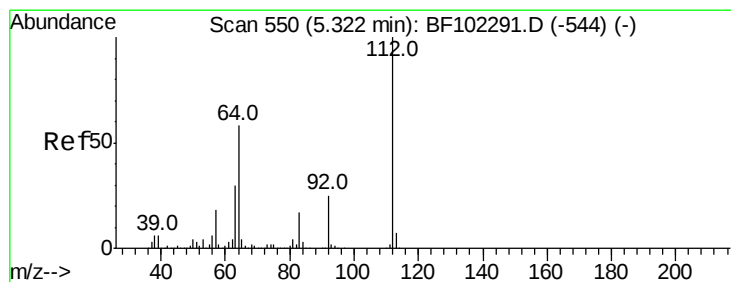
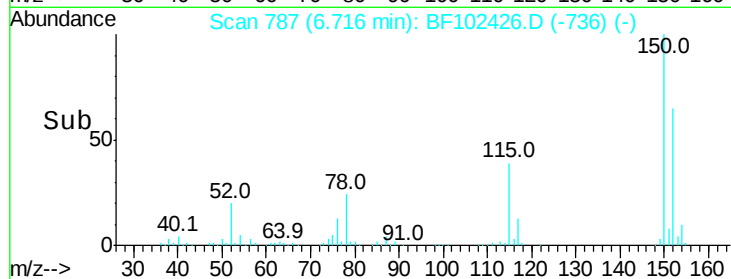
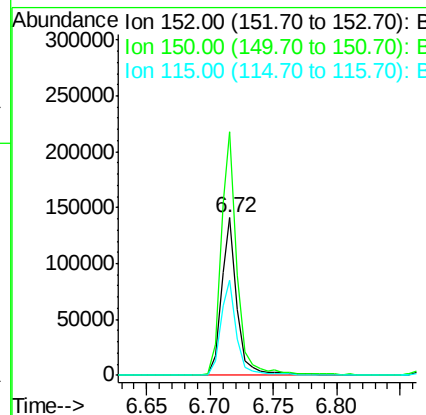
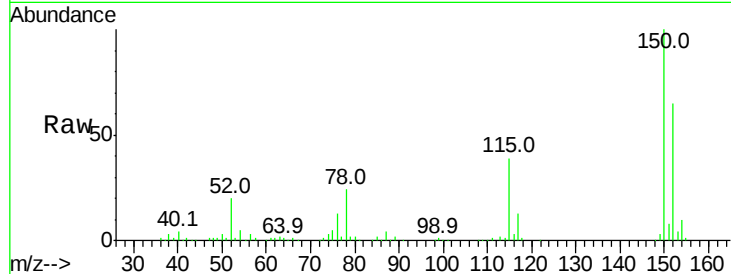
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.6	186.8
115	60.2	50.1	75.1

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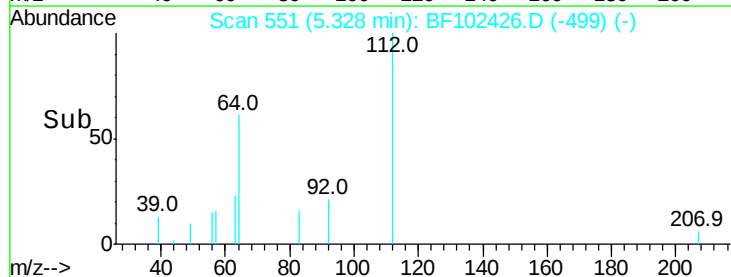
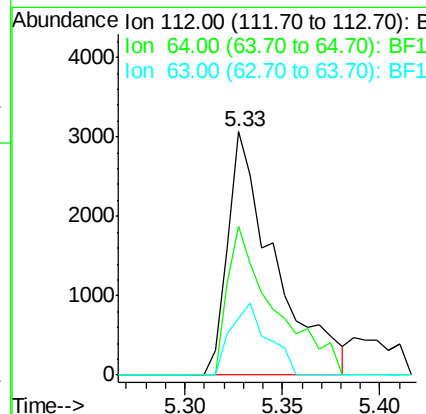
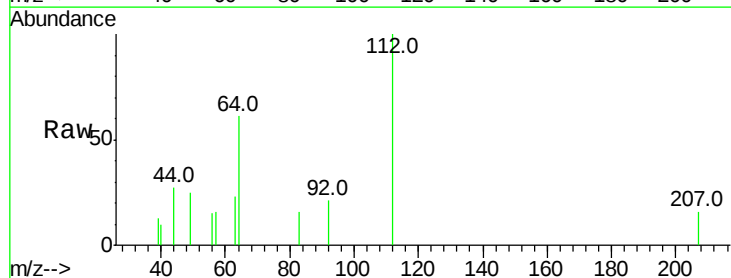
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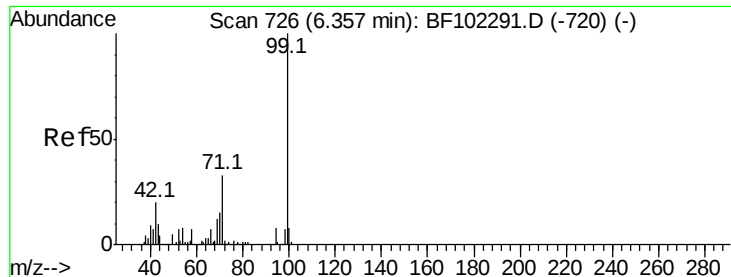


#5

2-Fluorophenol
Concen: 0.631 ng
RT: 5.33 min Scan# 551
Delta R.T. 0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	47.9	71.9
63	23.2	23.7	35.5#





#7

Phenol-d6

Concen: 0.806 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

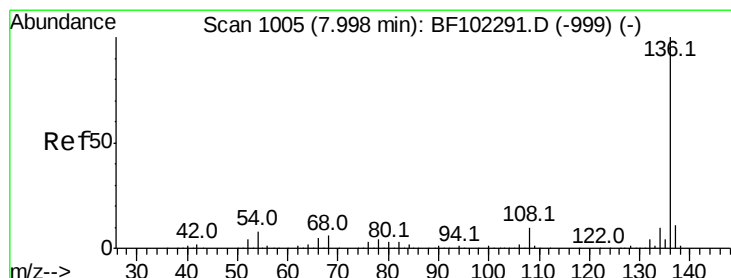
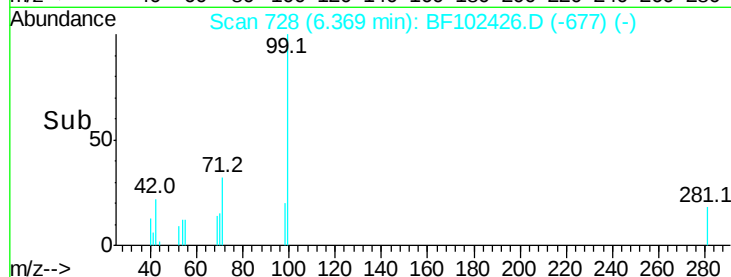
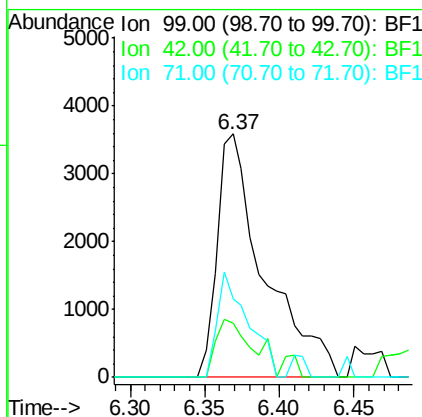
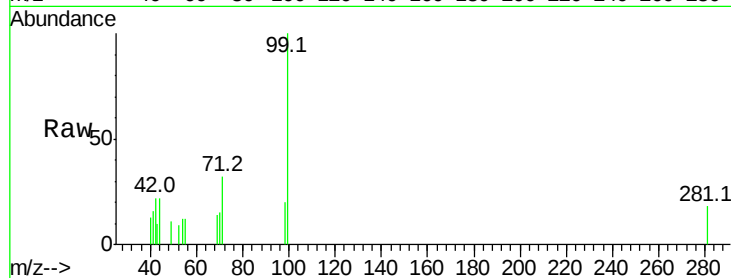
ClientSampleId :

A2-SB99-BOT-8DL

Tot Ion:	99	Resp:	7896
Ion Ratio	Lower	Upper	
99	100		
42	22.4	14.5	21.7#
71	32.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

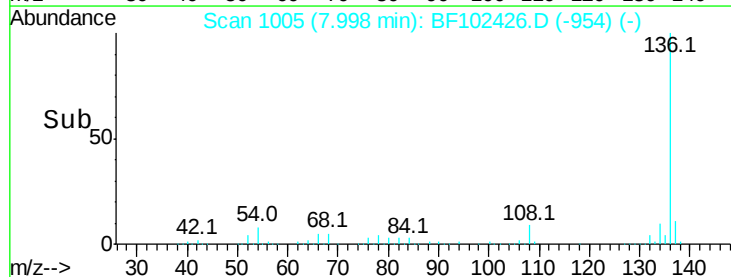
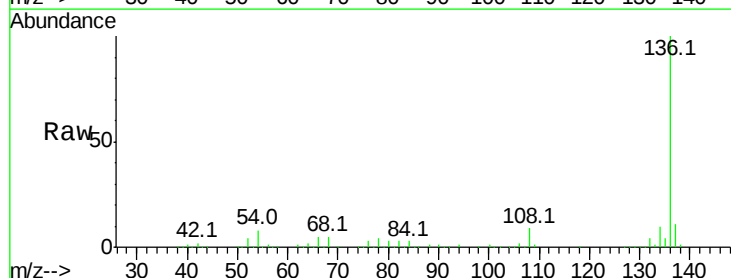
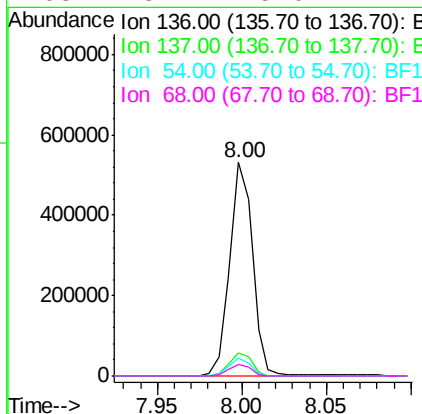
RT: 8.00 min Scan# 1005

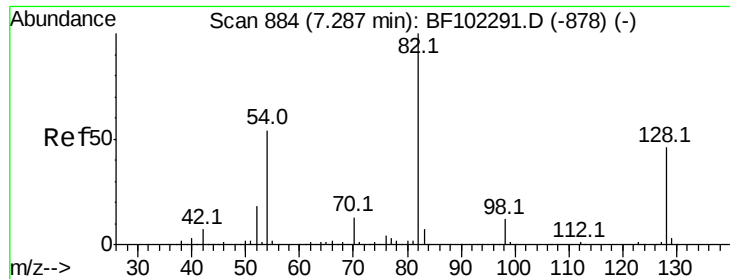
Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Tgt Ion:	136	Resp:	500495
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.2	6.6	9.8
68	5.4	5.0	7.4





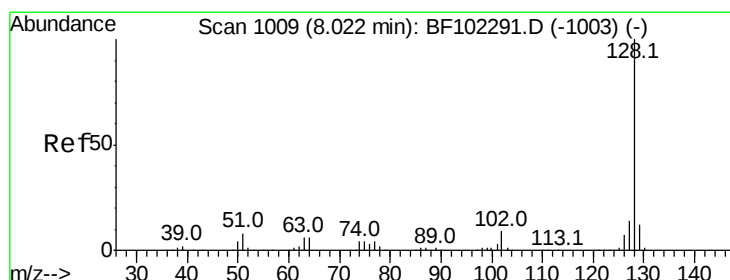
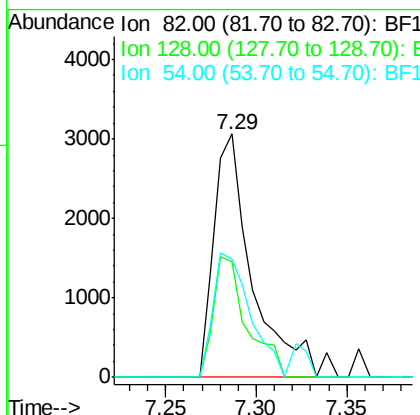
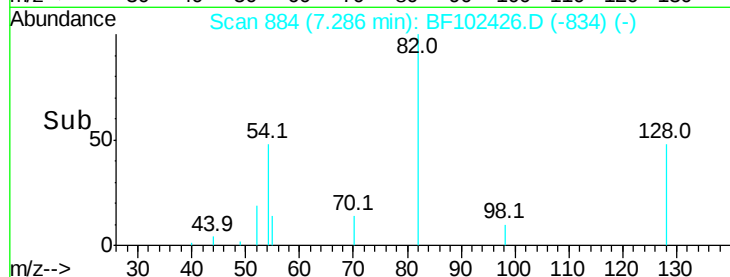
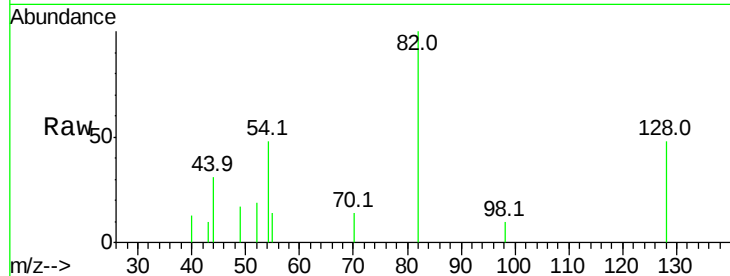
#23
 Nitrobenzene-d5
 Concen: 0.525 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	36.1	54.1
54	48.4	41.4	62.2

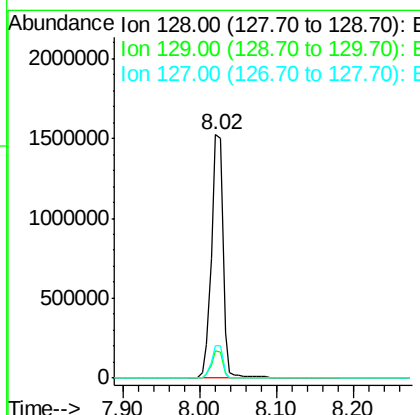
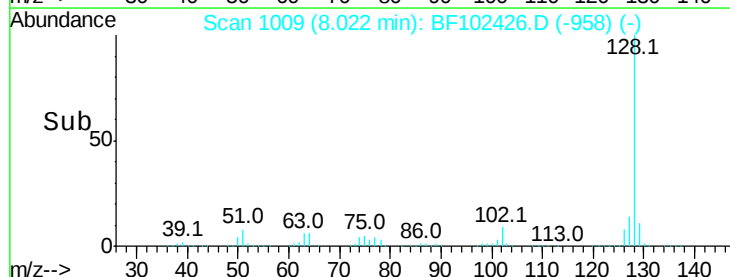
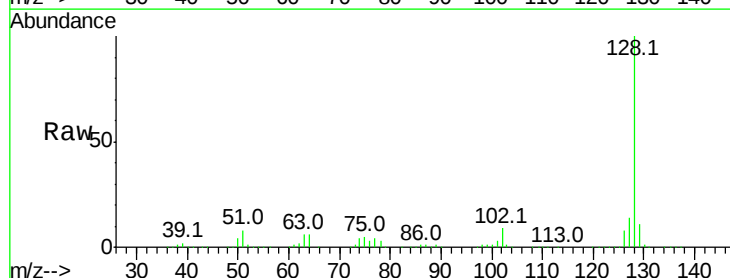
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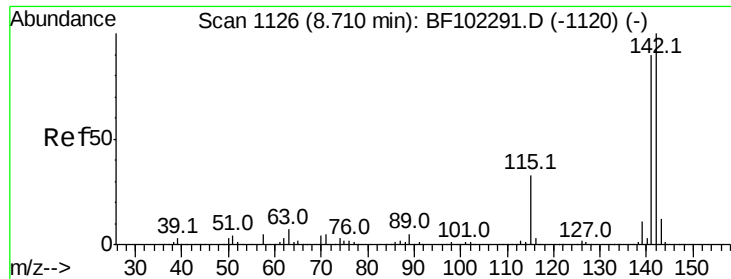
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#31
 Naphthalene
 Concen: 63.355 ng
 RT: 8.02 min Scan# 1009
 Delta R.T. -0.00 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.6	10.9	16.3





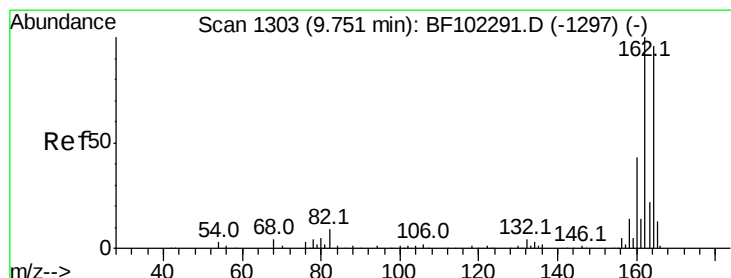
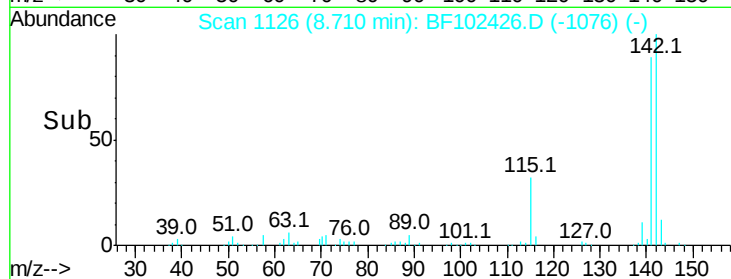
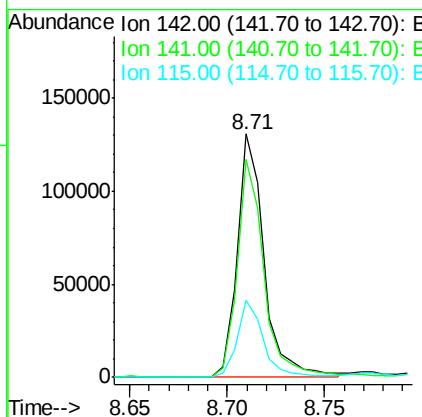
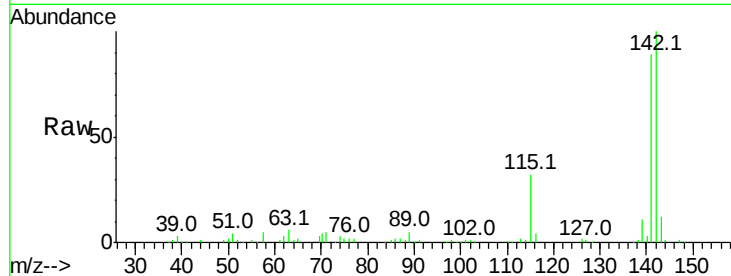
#37
2-Methylnaphthalene
Concen: 7.538 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.8	106.2
115	31.6	26.1	39.1

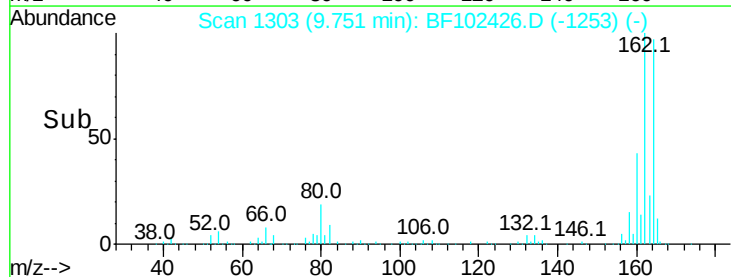
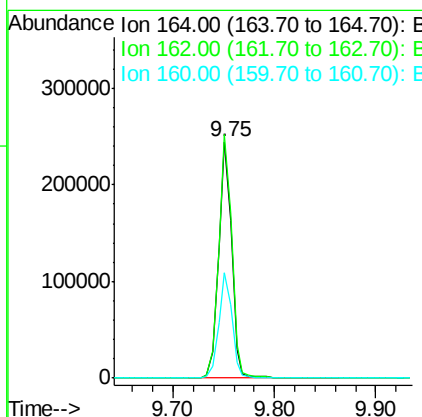
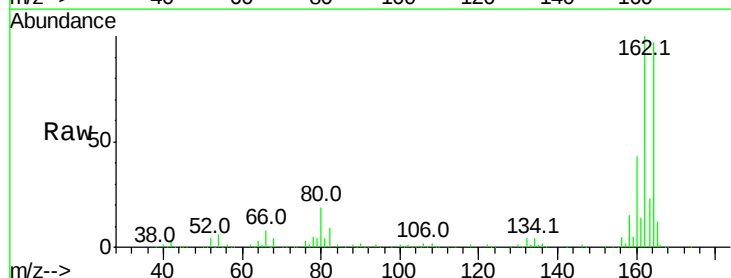
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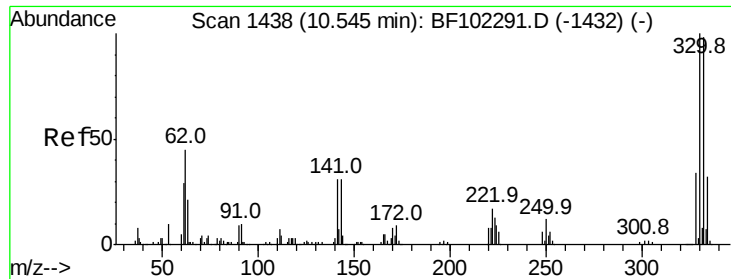
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	86.1	129.1
160	44.7	38.3	57.5





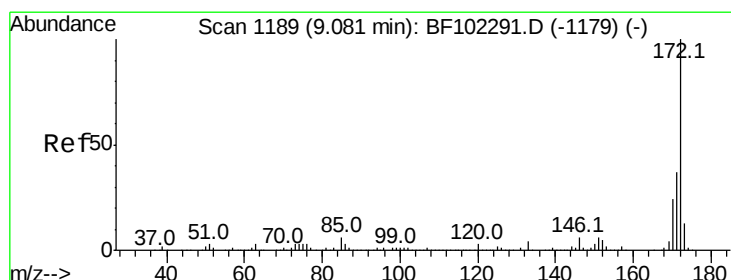
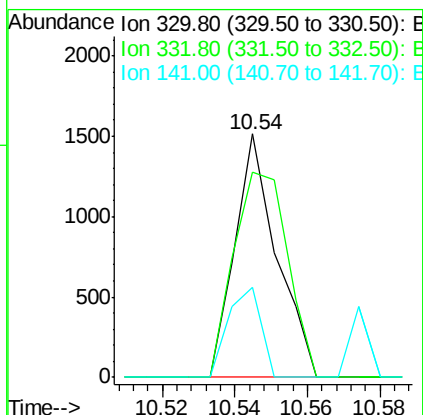
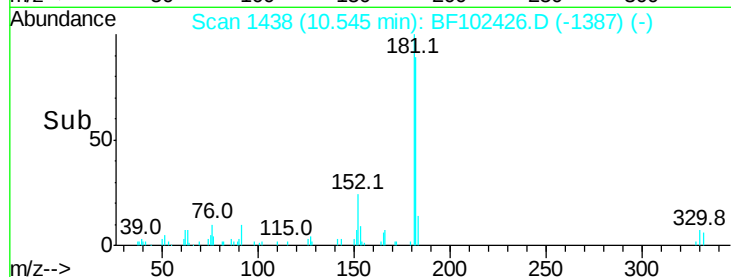
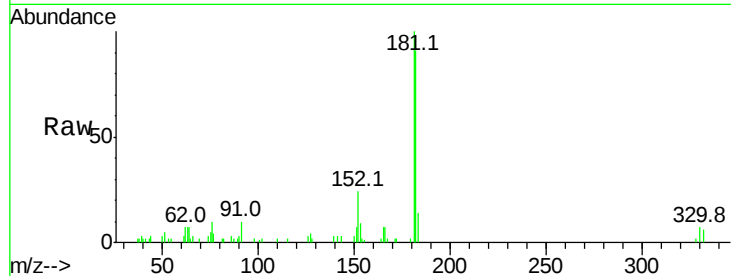
#41
 2,4,6-Tribromophenol
 Concen: 0.561 ng
 RT: 10.54 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	108.5	77.0	115.6
141	28.9	29.9	44.9#

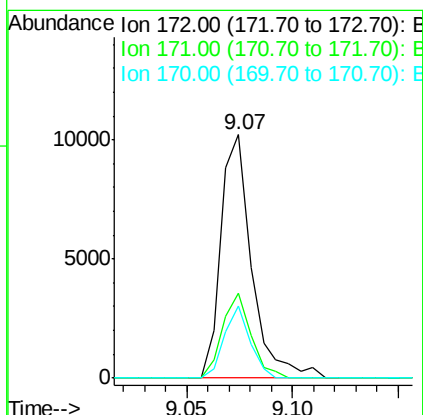
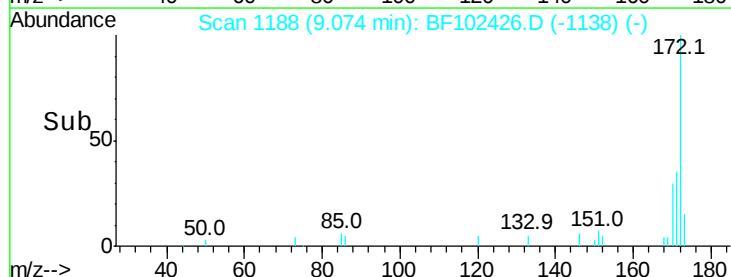
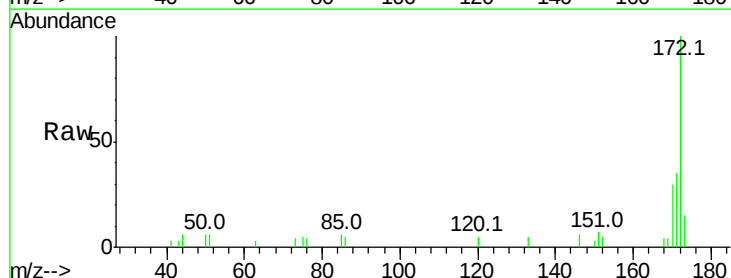
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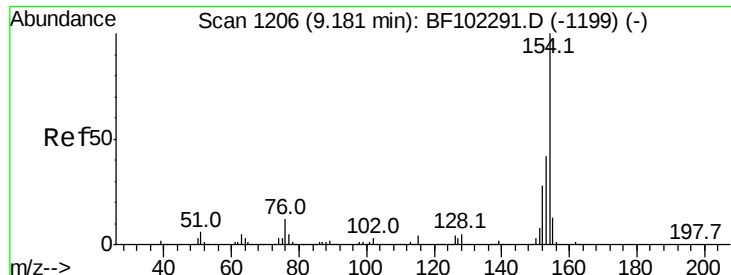
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#44
 2-Fluorobiphenyl
 Concen: 0.696 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.7	44.5
170	29.7	19.6	29.4#





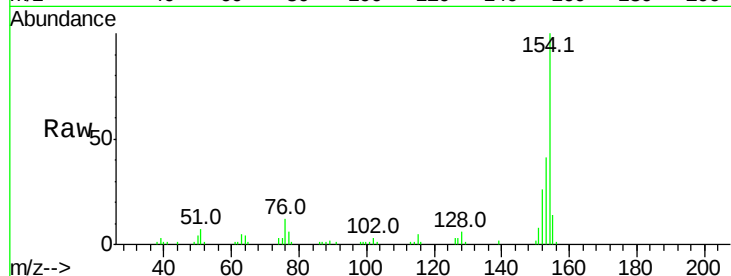
#45
 1,1'-Biphenyl
 Concen: 2.542 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Instrument :
 BNA_F
 ClientSampled :
 A2-SB99-BOT-8DL

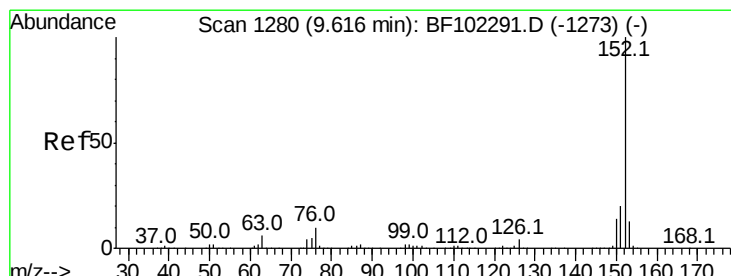
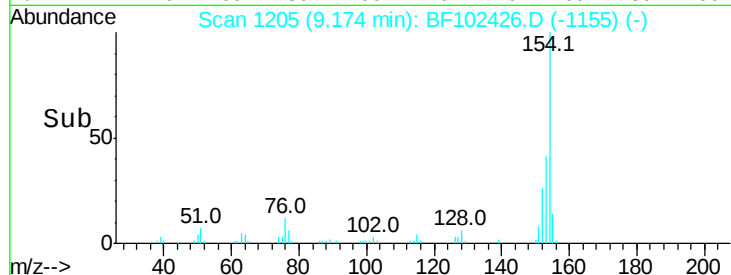
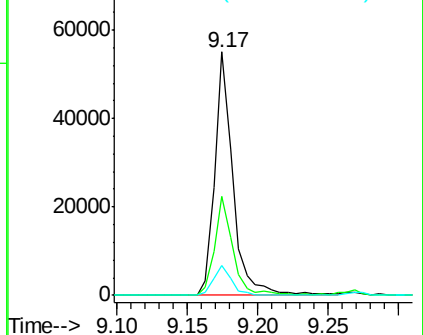
Tot Ion:	154	Resp:	49637
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	12.2	0.0	34.0

Manual Integrations
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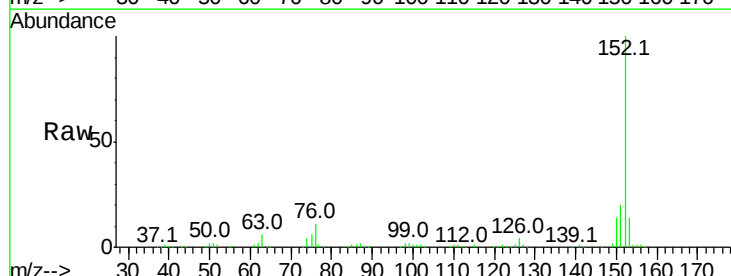


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

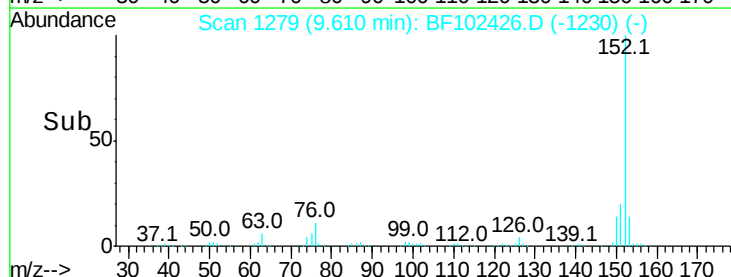
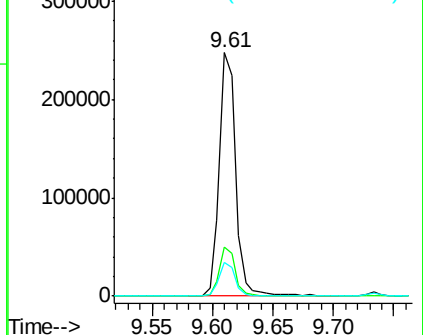


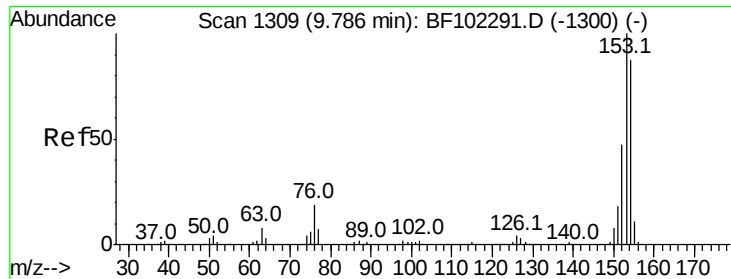
#48
 Acenaphthylene
 Concen: 9.791 ng
 RT: 9.61 min Scan# 1279
 Delta R.T. -0.01 min
 Lab File: BF102426.D
 Acq: 25 Jan 2018 15:13

Tgt Ion:	152	Resp:	231536
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.9	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 16.292 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

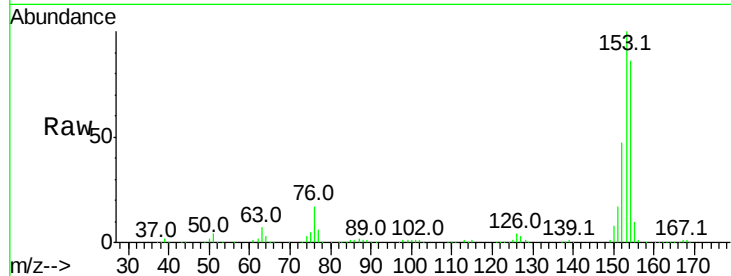
ClientSampleId :

A2-SB99-BOT-8DL

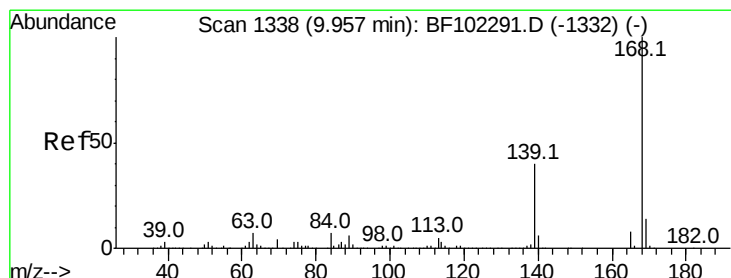
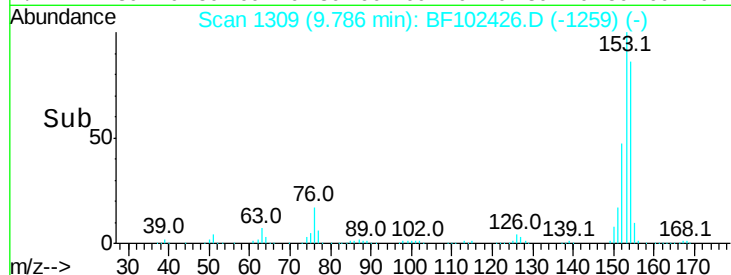
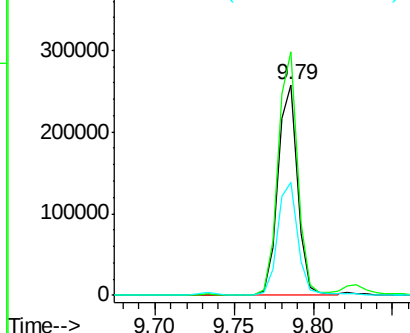
Tot Ion:	154	Resp:	225010
Ion Ratio	Lower	Upper	
154	100		
153	115.6	91.2	136.8
152	53.9	43.8	65.8

Manual Integrations
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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: 14.594 ng

RT: 9.96 min Scan# 1338

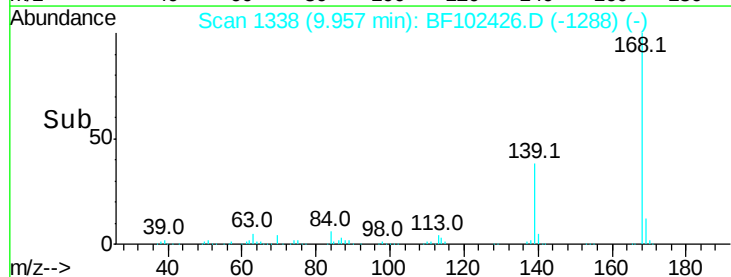
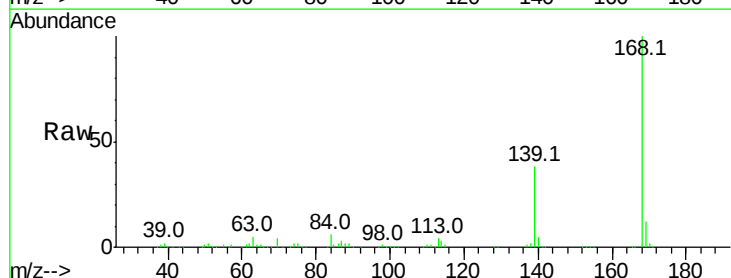
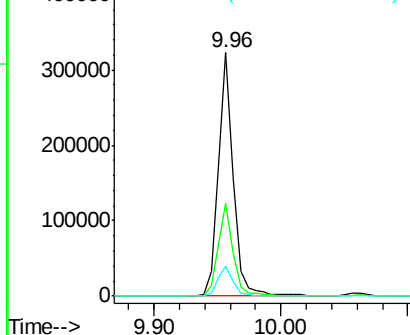
Delta R.T. -0.01 min

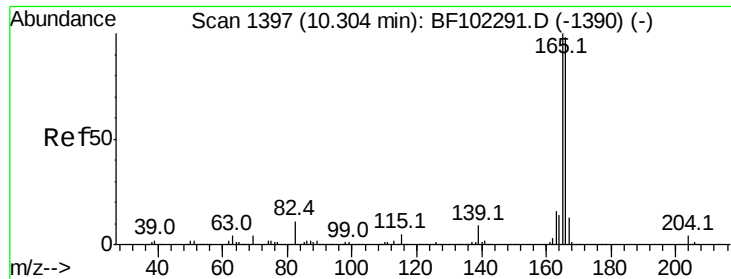
Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Tgt Ion:	168	Resp:	272791
Ion Ratio	Lower	Upper	
168	100		
139	38.2	30.1	45.1
169	12.2	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: 23.087 ng

RT: 10.30 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

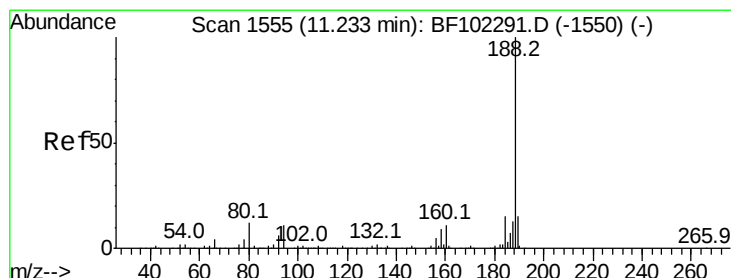
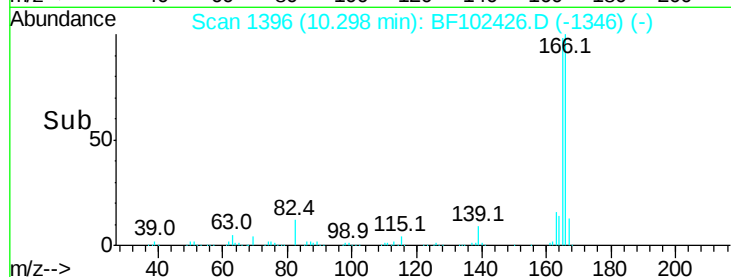
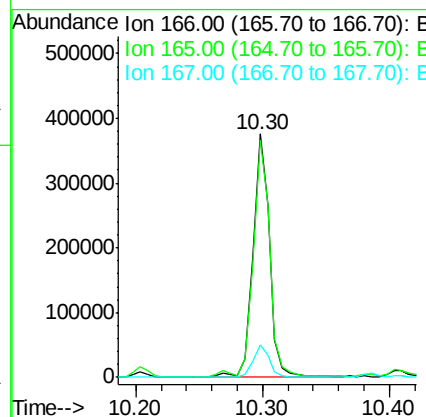
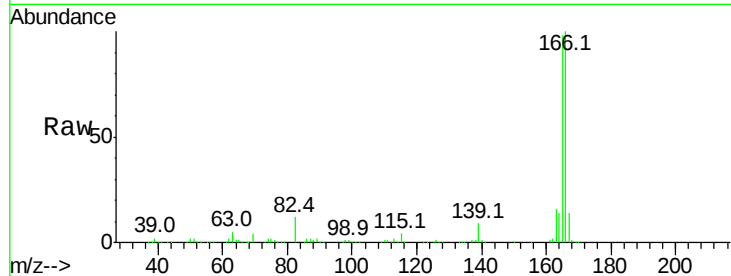
ClientSampleId :

A2-SB99-BOT-8DL

Tot Ion:	166	Resp:	341945
Ion Ratio	Lower	Upper	
166	100		
165	97.6	79.8	119.8
167	13.6	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

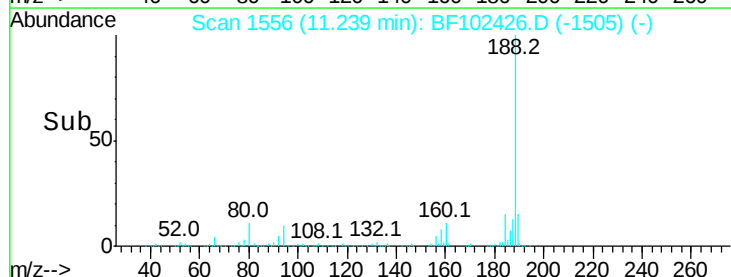
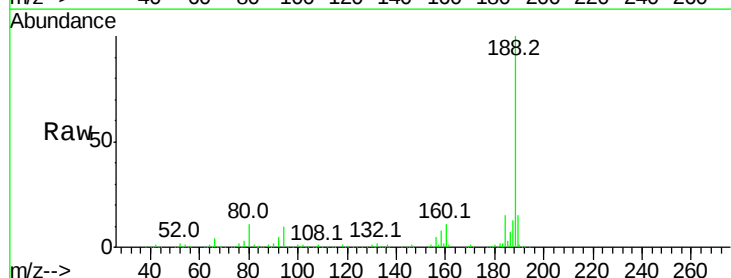
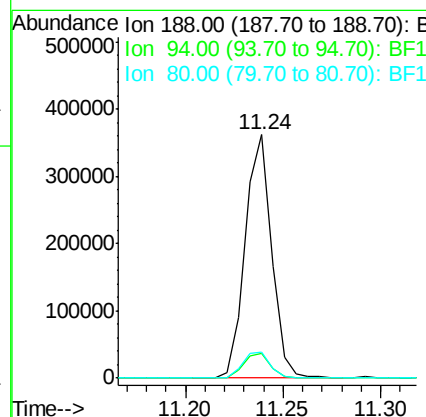
RT: 11.24 min Scan# 1556

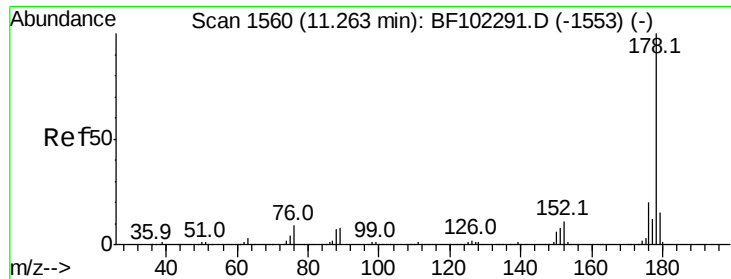
Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Tgt Ion:	188	Resp:	339747
Ion Ratio	Lower	Upper	
188	100		
94	9.9	8.5	12.7
80	10.6	9.2	13.8





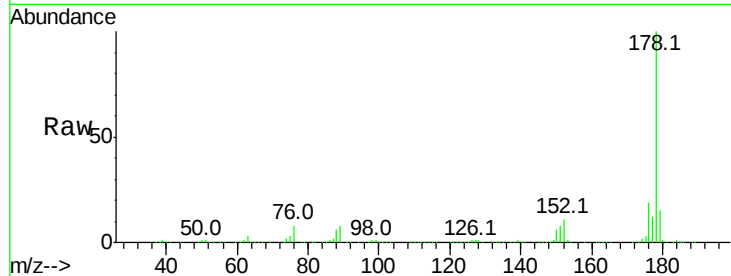
#70
Phenanthrene
Concen: 55.857 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

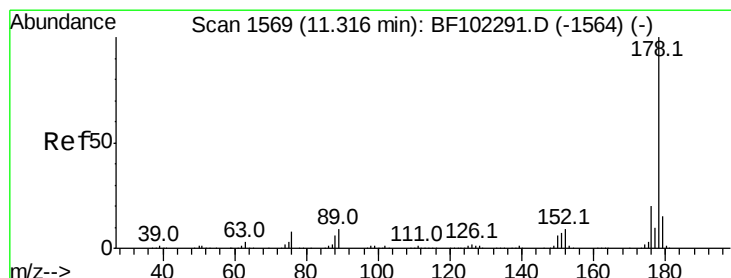
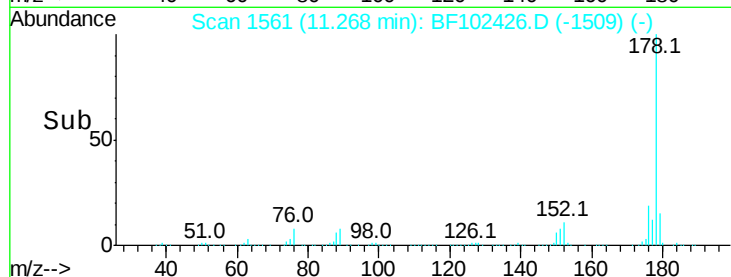
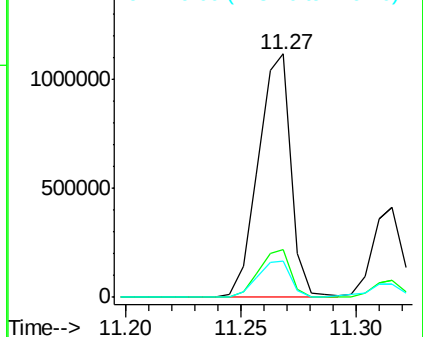
Tot Ion:178 Resp: 1105850
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 14.9 13.0 19.6

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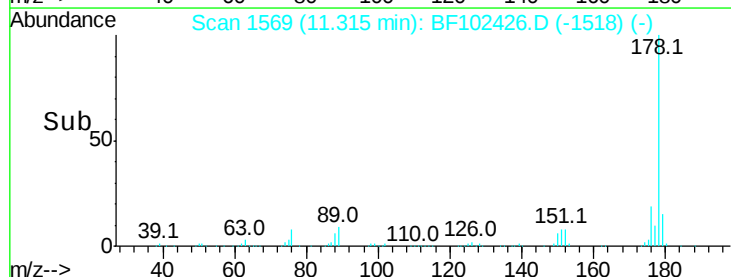
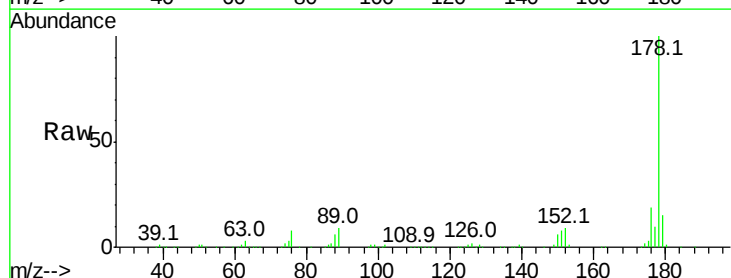
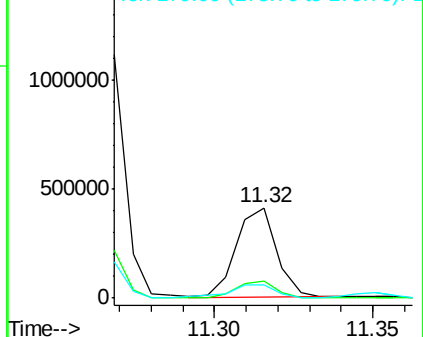
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

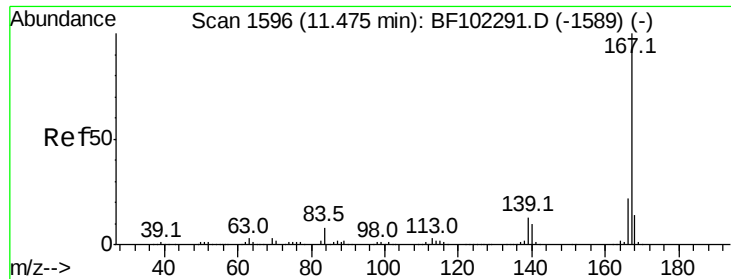


#71
Anthracene
Concen: 17.819 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.00 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Tgt Ion:178 Resp: 360072
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.2 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 7.670 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

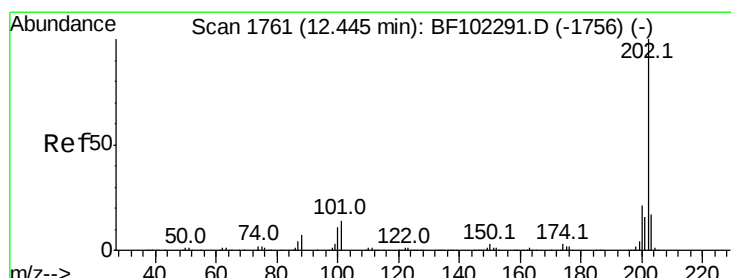
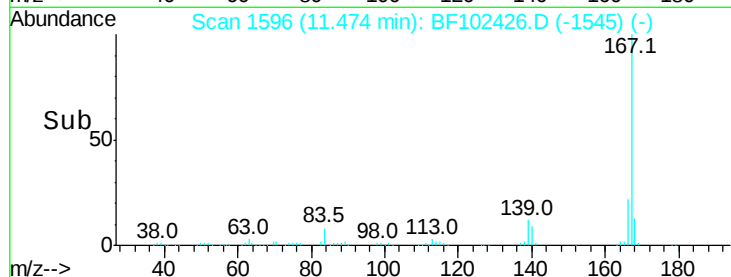
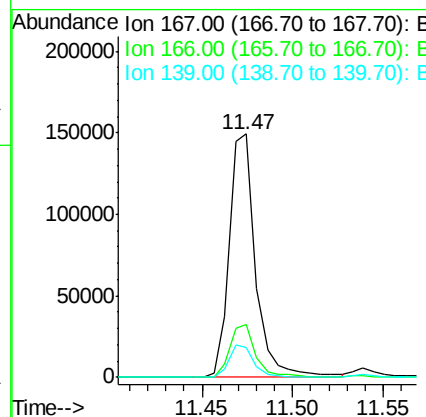
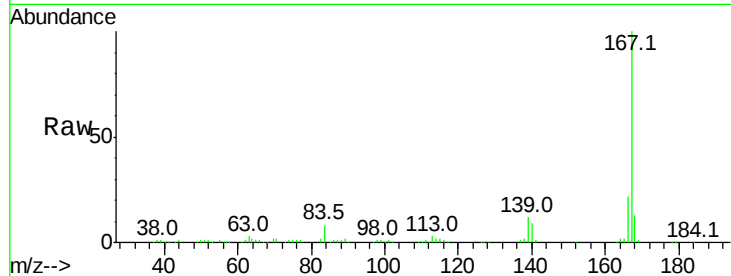
ClientSampleId :

A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	12.4	10.9	16.3

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#74

Fluoranthene

Concen: 37.454 ng

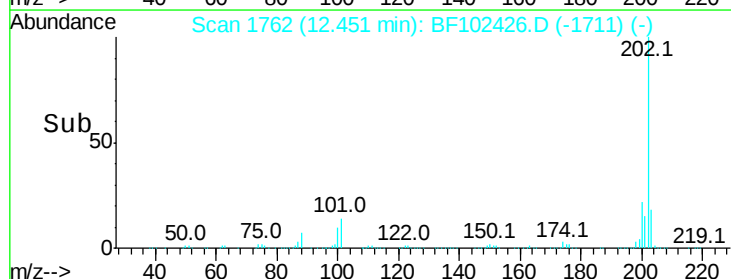
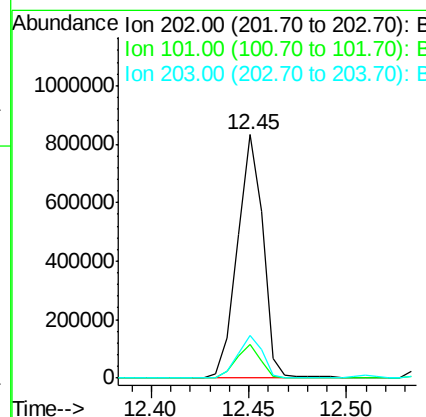
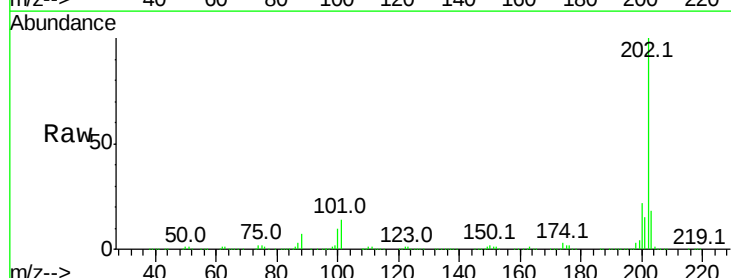
RT: 12.45 min Scan# 1762

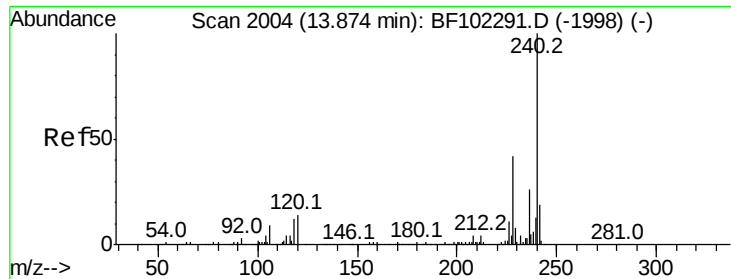
Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.0	0.0	34.1
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

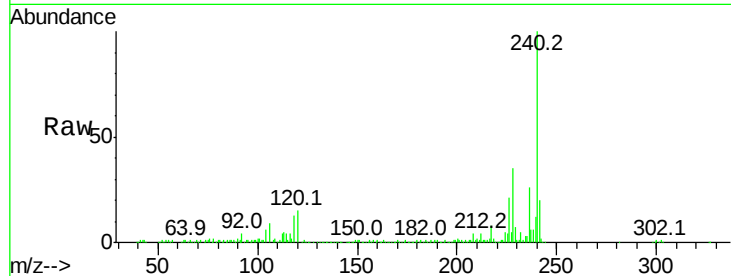
ClientSampleId :

A2-SB99-BOT-8DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	236510		
120	15.0	9.5	14.3#	
236	26.3	20.7	31.1	

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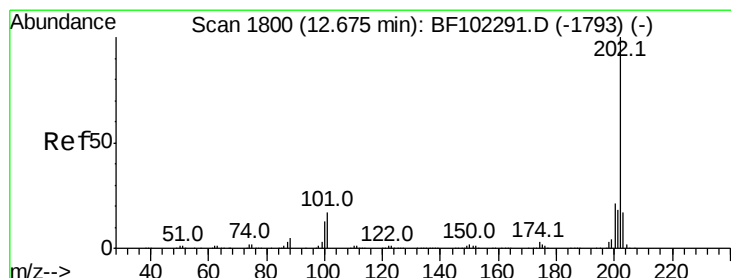
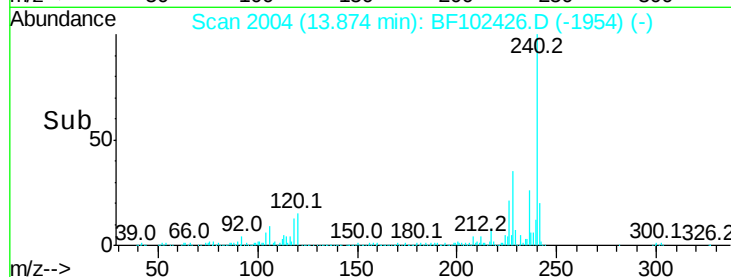
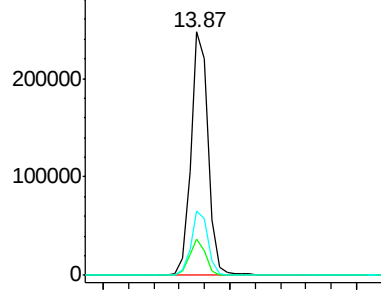
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 30.188 ng

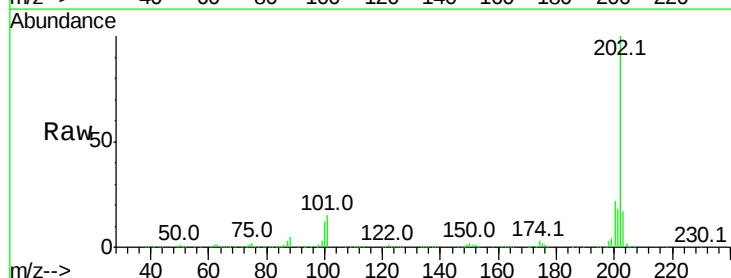
RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

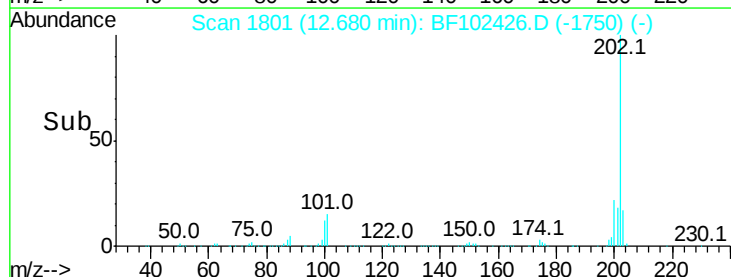
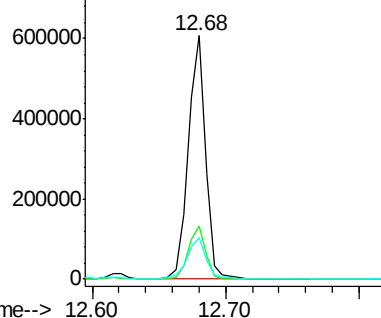
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	552017		
200	21.8	17.4	26.2	
203	17.0	14.3	21.5	

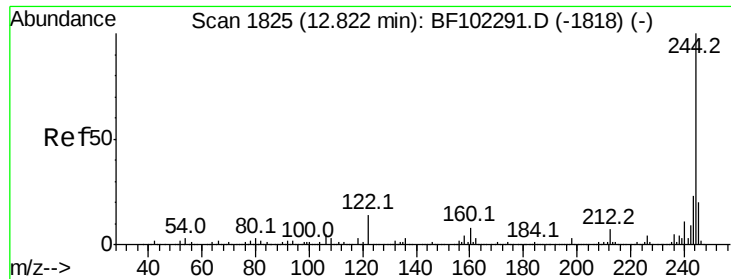


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.829 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Instrument :

BNA_F

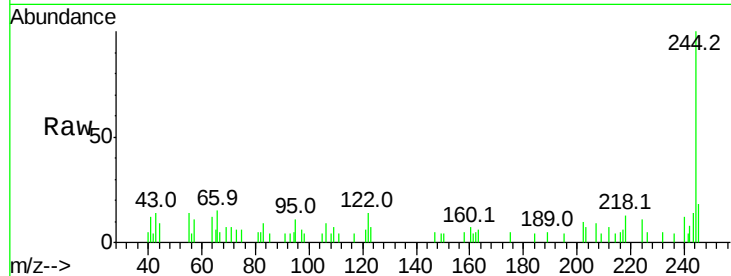
ClientSampleId :

A2-SB99-BOT-8DL

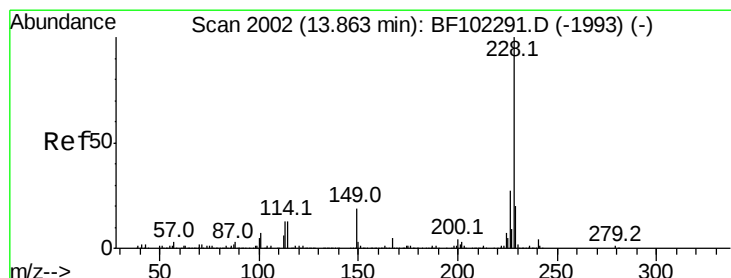
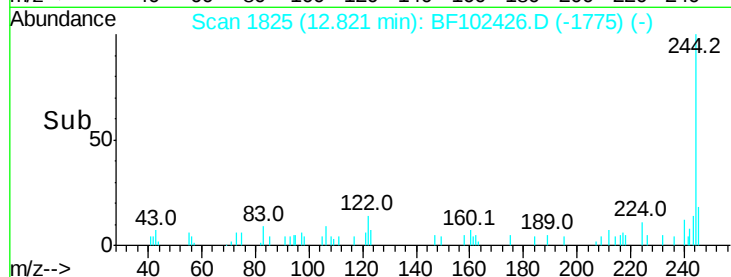
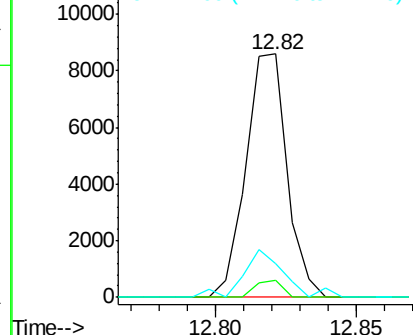
Tot Ion:	244	Resp:	8702
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.0
122	13.8	11.0	16.4

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 16.211 ng m

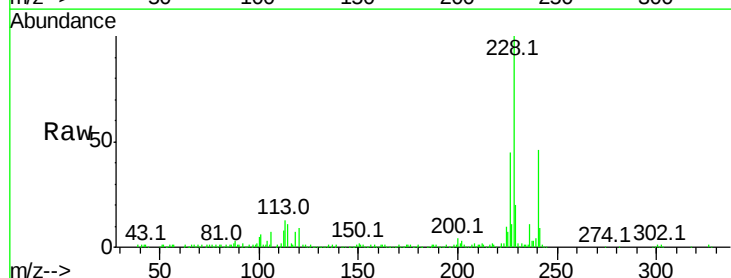
RT: 13.87 min Scan# 2003

Delta R.T. -0.00 min

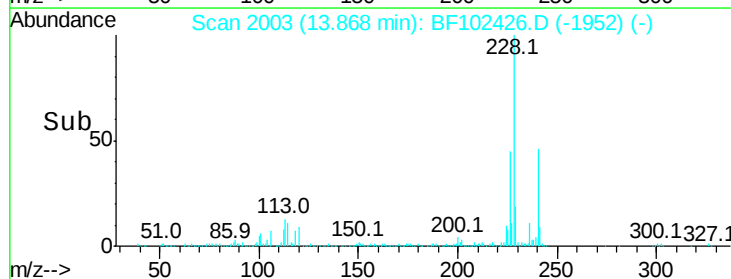
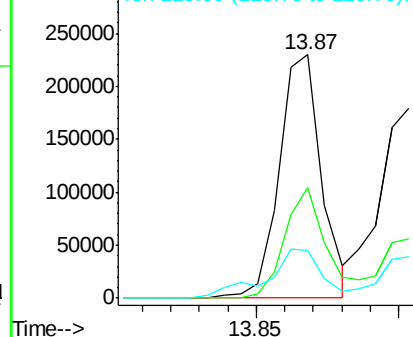
Lab File: BF102426.D

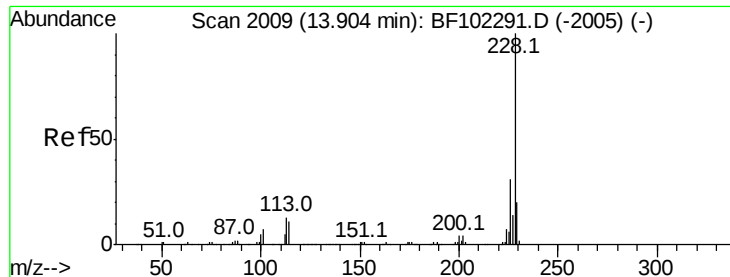
Acq: 25 Jan 2018 15:13

Tgt Ion:	228	Resp:	236053
Ion Ratio	Lower	Upper	
228	100		
226	45.3	22.6	33.8#
229	19.7	15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





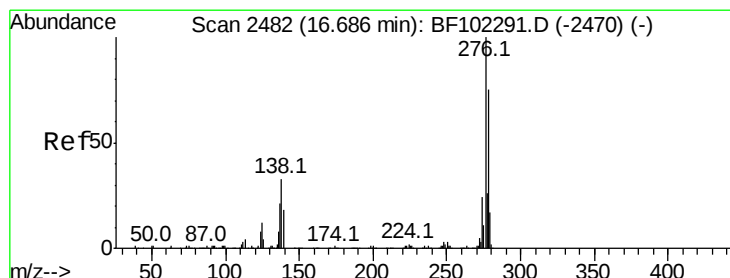
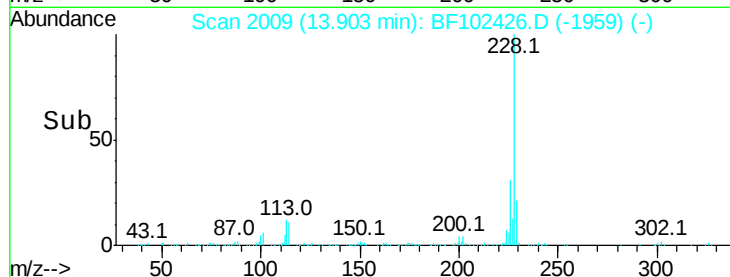
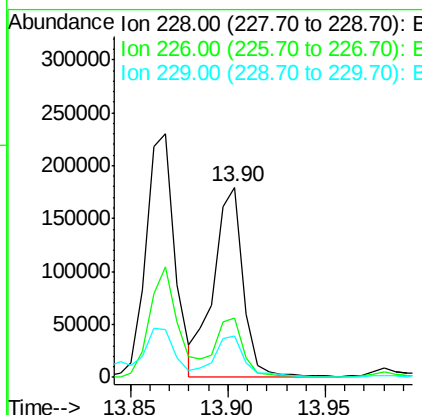
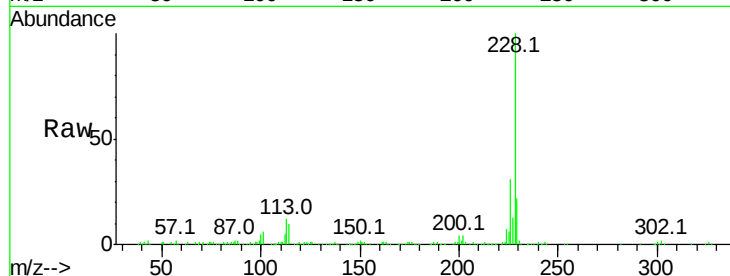
#82
Chrysene
Concen: 12.655 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	21.7	16.2	24.4

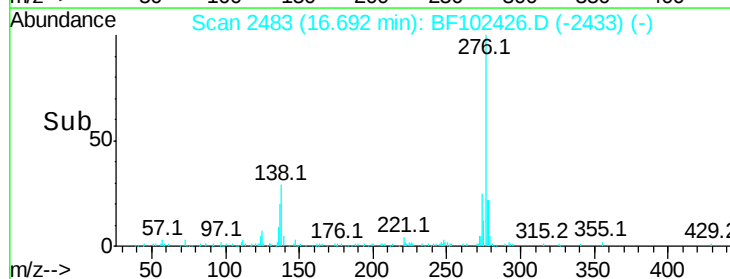
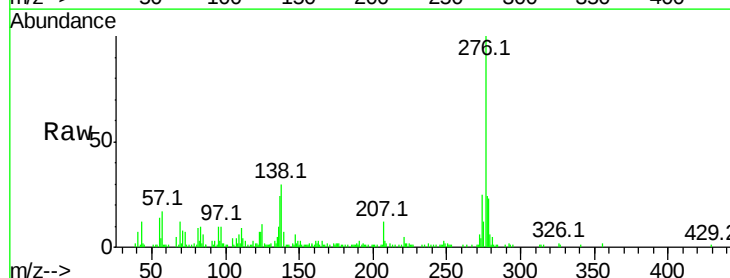
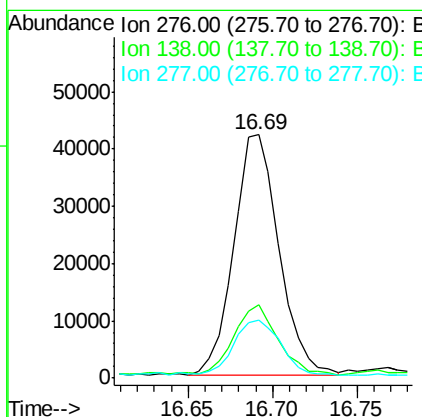
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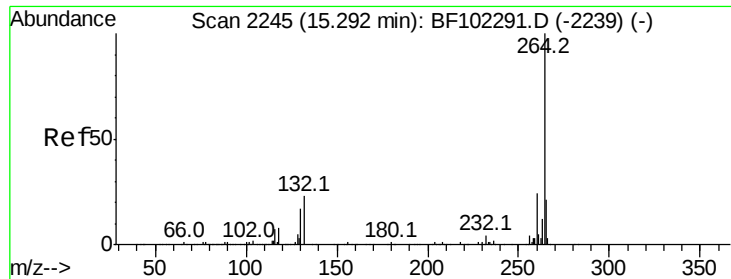
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.384 ng
RT: 16.69 min Scan# 2483
Delta R.T. -0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.0	37.6
277	23.9	20.1	30.1





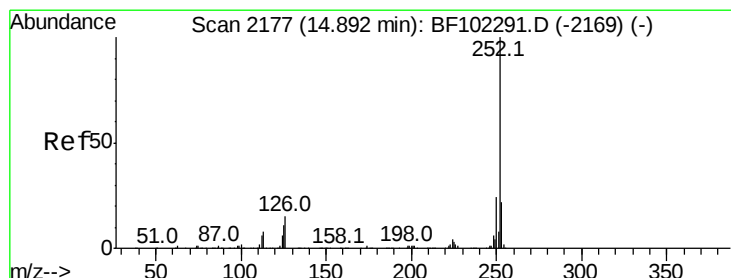
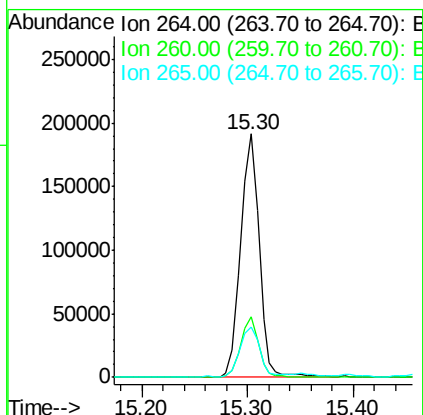
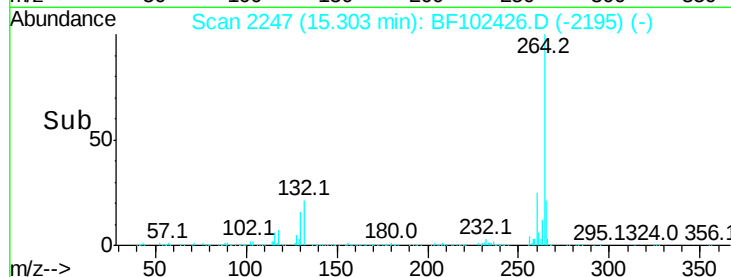
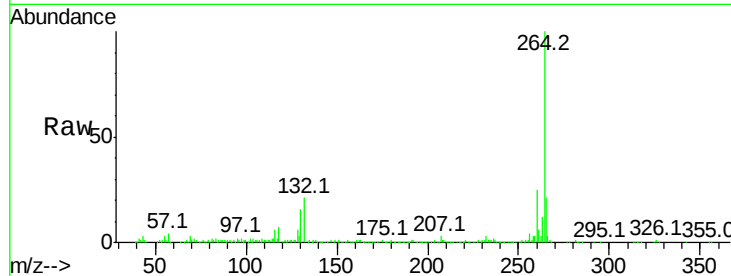
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	20.7	17.5	26.3

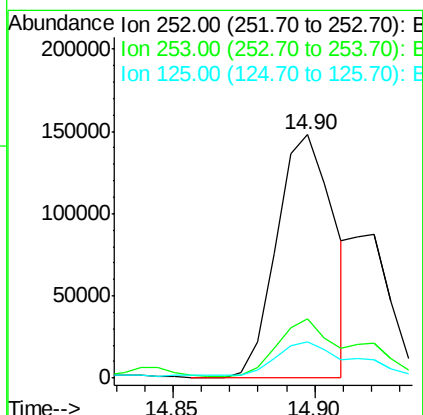
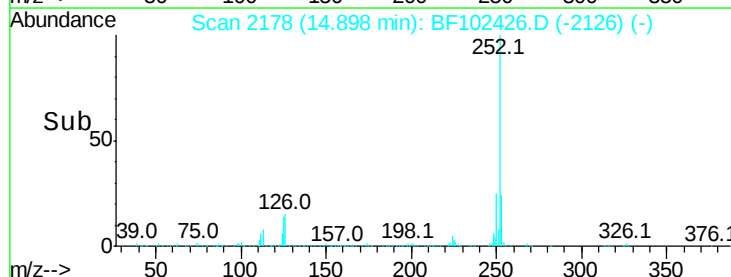
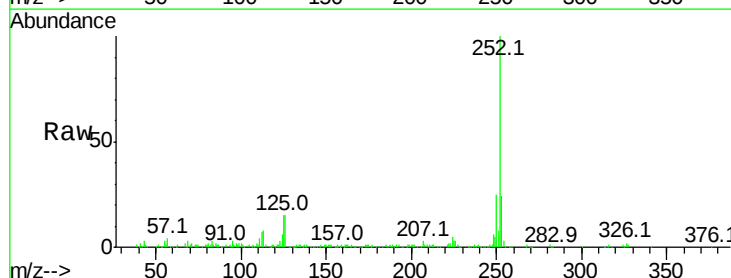
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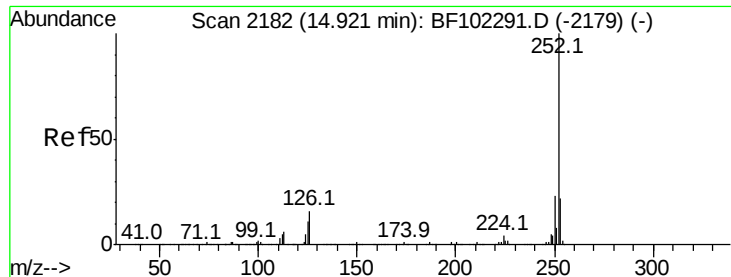
Sohil
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#87
Benzo(b)fluoranthene
Concen: 13.789 ng m
RT: 14.90 min Scan# 2178
Delta R.T. 0.01 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.0	25.6
125	14.9	9.0	13.6





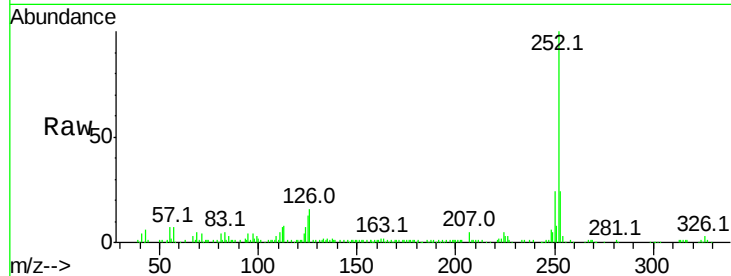
#88
Benzo(k)fluoranthene
Concen: 6.091 ng m
RT: 14.92 min Scan# 2182
Delta R.T. -0.00 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	12.9	10.2	15.2

Manual Integrations
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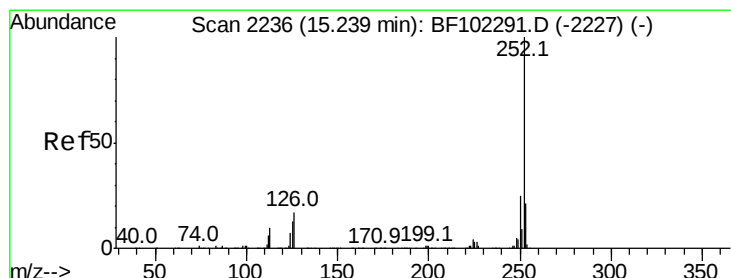
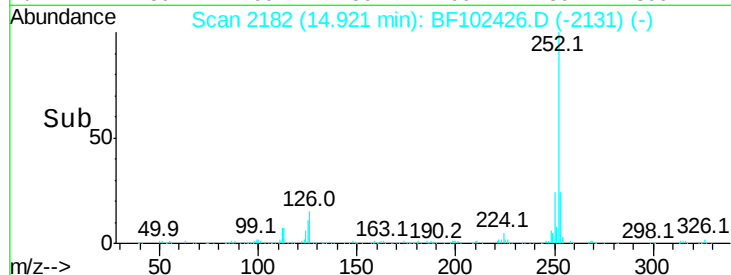
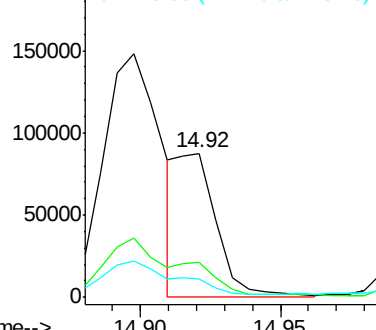


Abundance

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



#89
Benzo(a)pyrene
Concen: 12.696 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.00 min
Lab File: BF102426.D
Acq: 25 Jan 2018 15:13

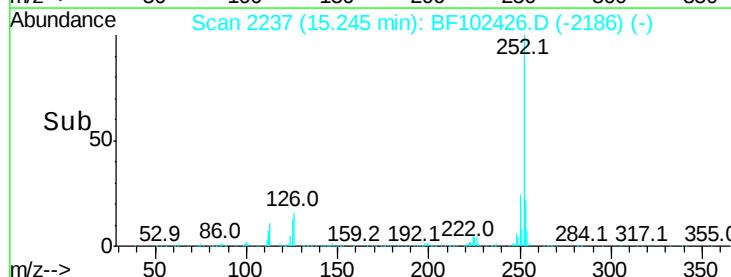
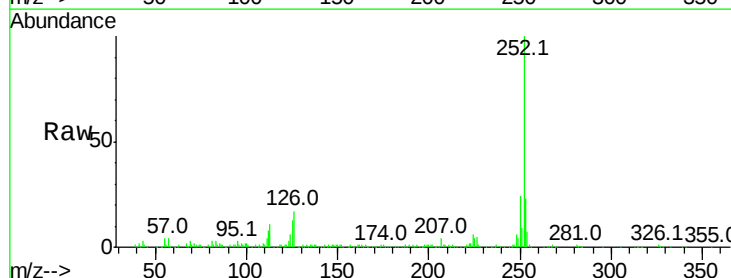
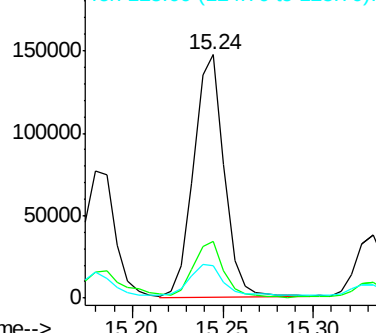
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	13.5	9.8	14.6

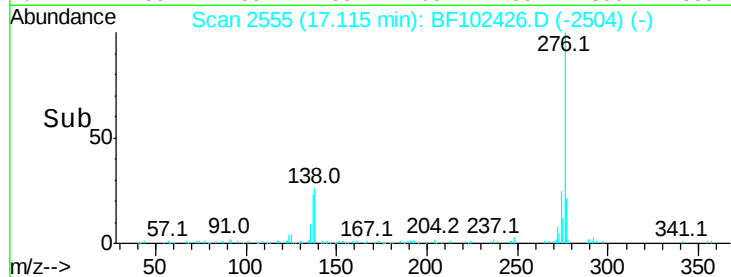
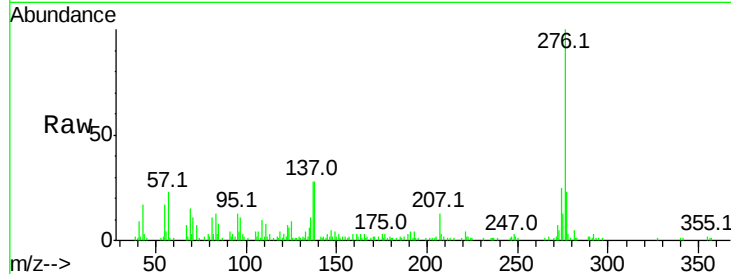
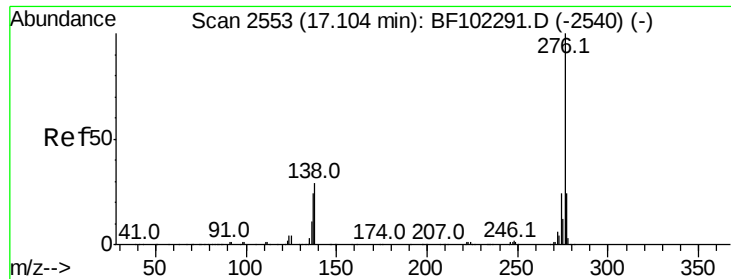
Abundance

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





#91

Benzo(a,h,i)perylene

Concen: 6.060 ng

RT: 17.12 min Scan# 2555

Delta R.T. -0.00 min

Lab File: BF102426.D

Acq: 25 Jan 2018 15:13

Tot Ion:	276	Resp:	65950
Ion Ratio		Lower	Upper
276	100		
277	22.5	17.9	26.9
138	27.6	21.8	32.8

Instrument :

BNA_F

ClientSampleId :

A2-SB99-BOT-8DL

Manual Integrations
APPROVED

Sohil
1/25/2018 5:43:16 PM

