

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013018\
 Data File : BF102656.D
 Acq On : 30 Jan 2018 22:51
 Operator : SJ/JU
 Sample : J1363-01 50X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB-01

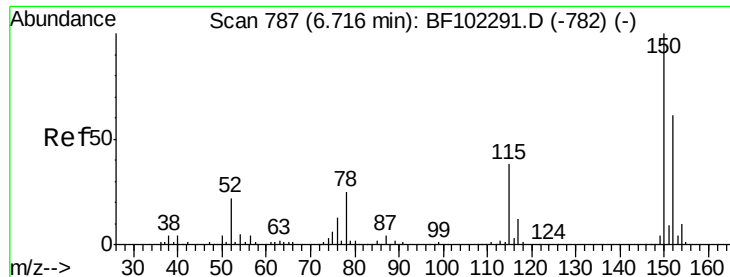
Manual Integrations
 APPROVED

Sohil
 1/31/2018 2:00:35 PM

Quant Time: Jan 31 03:28:22 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 27 20:48:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	136117	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	578934	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	244247	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	357144	20.00	ng	0.00
75) Chrysene-d12	13.88	240	262994	20.00	ng	0.00
86) Perylene-d12	15.31	264	232311	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	14721	1.64	ng	0.02
7) Phenol-d6	6.39	99	22290	2.06	ng	0.02
23) Nitrobenzene-d5	7.29	82	12546	1.25	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	2771	1.14	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	26398	1.59	ng	0.00
78) Terphenyl-d14	12.82	244	19206	1.65	ng	0.00
Target Compounds						
31) Naphthalene	8.02	128	354153	12.252	ng	99
37) 2-Methylnaphthalene	8.71	142	170877	8.877	ng	97
45) 1,1'-Biphenyl	9.17	154	59773	2.737	ng	99
48) Acenaphthylene	9.61	152	243661	9.213	ng	98
51) Acenaphthene	9.78	154	223091	14.443	ng	99
54) Dibenzofuran	9.95	168	261924	12.530	ng	99
57) Fluorene	10.30	166	391773	23.652	ng	99
70) Phenanthrene	11.26	178	1374229	66.032	ng	99
71) Anthracene	11.31	178	505059	23.776	ng	99
72) Carbazole	11.47	167	127276	6.142	ng	98
74) Fluoranthene	12.46	202	1185893	55.878	ng	97
77) Pyrene	12.68	202	1059235	52.092	ng	100
80) Benzo(a)anthracene	13.87	228	454223m	28.053	ng	
82) Chrysene	13.90	228	372543	22.657	ng	97
85) Indeno(1,2,3-cd)pyrene	16.71	276	120580	8.880	ng	97
87) Benzo(b)fluoranthene	14.90	252	420276m	27.912	ng	
88) Benzo(k)fluoranthene	14.93	252	101690m	7.148	ng	
89) Benzo(a)pyrene	15.25	252	286304	21.083	ng	95
90) Dibenzo(a,h)anthracene	16.72	278	32419	2.947	ng	# 84
91) Benzo(a,h,i)perylene	17.14	276	117527	10.820	ng	98

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



#1

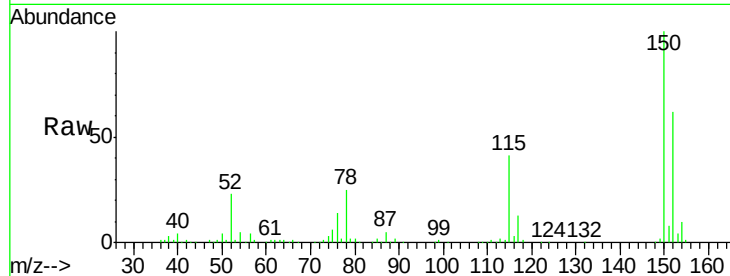
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampleId :
RB-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	124.6	186.8
115	66.9	50.1	75.1

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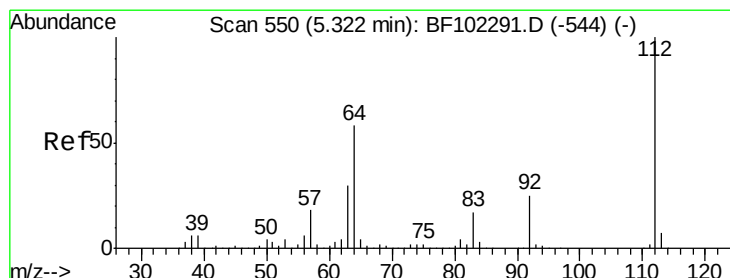
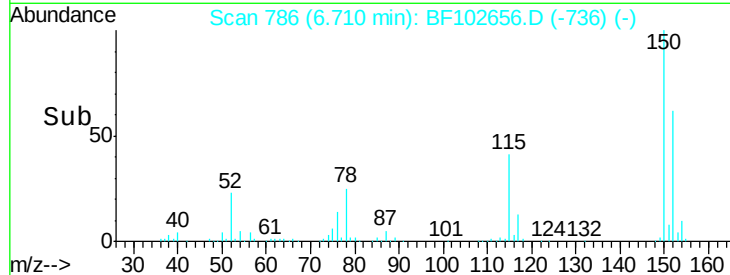
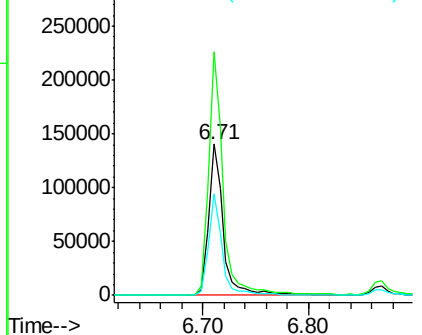


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

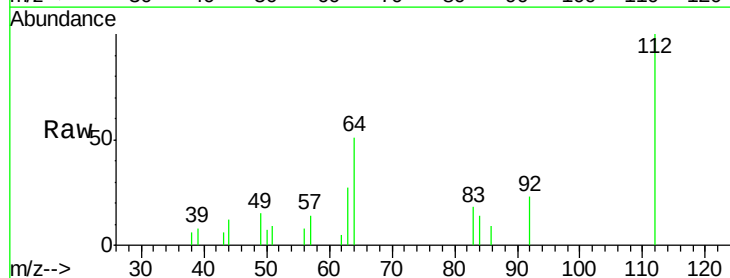
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 1.640 ng
RT: 5.35 min Scan# 554
Delta R.T. 0.02 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.3	47.9	71.9
63	27.3	23.7	35.5

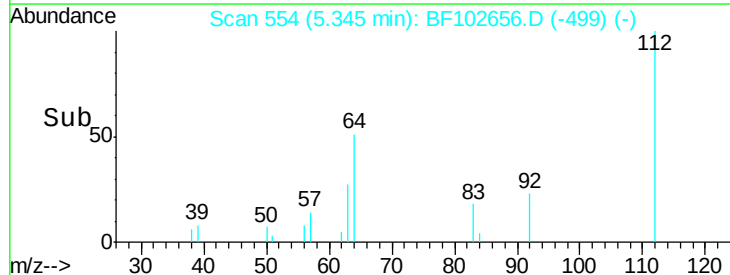
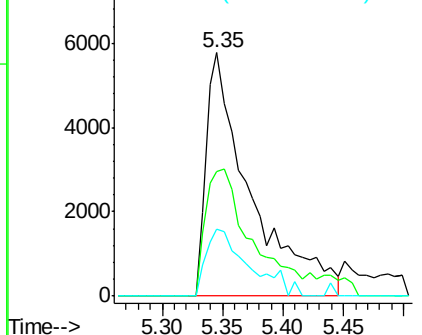


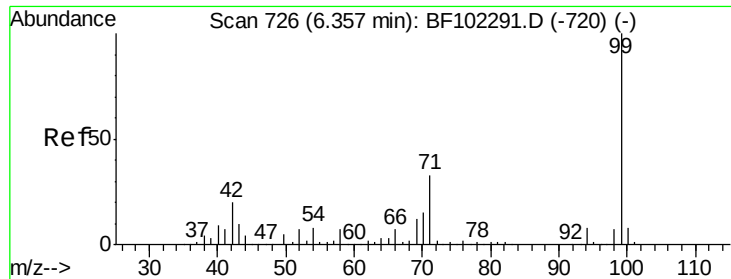
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 2.060 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.02 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Instrument :

BNA_F

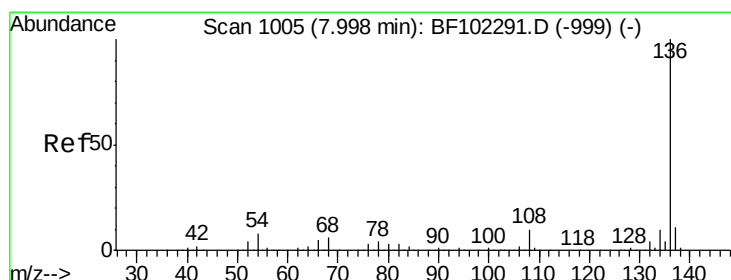
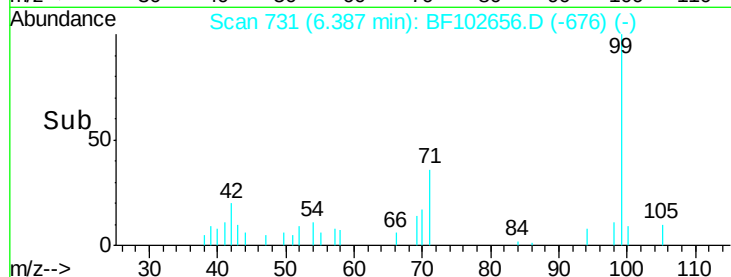
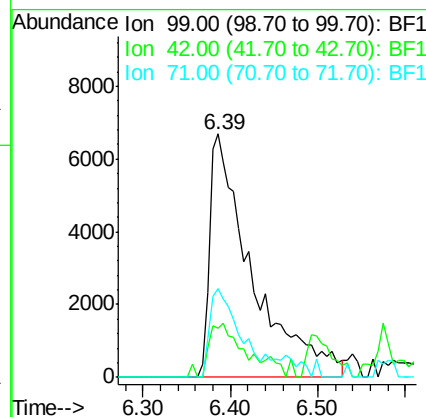
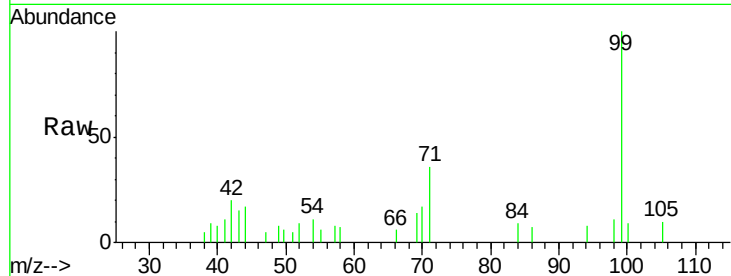
ClientSampled :

RB-01

Tot Ion:	99	Resp:	22290
Ion	Ratio	Lower	Upper
99	100		
42	20.3	14.5	21.7
71	36.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

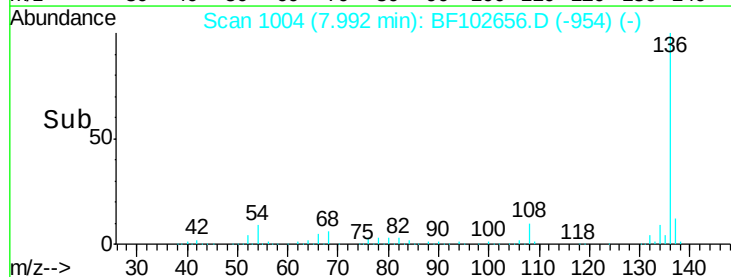
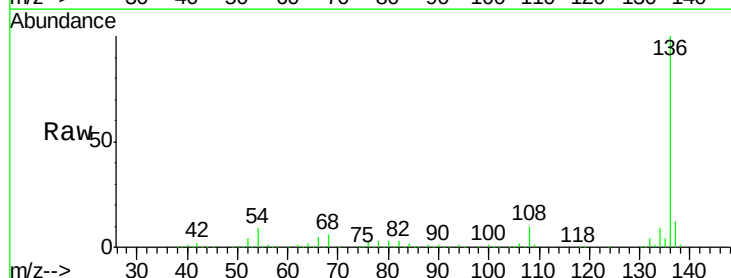
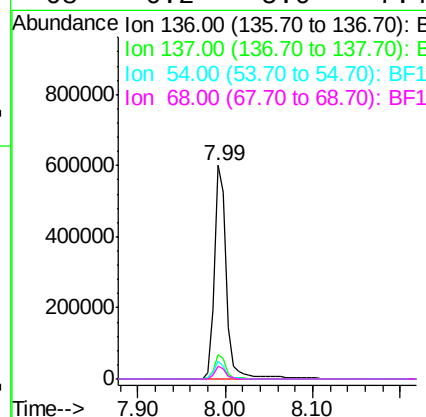
RT: 7.99 min Scan# 1004

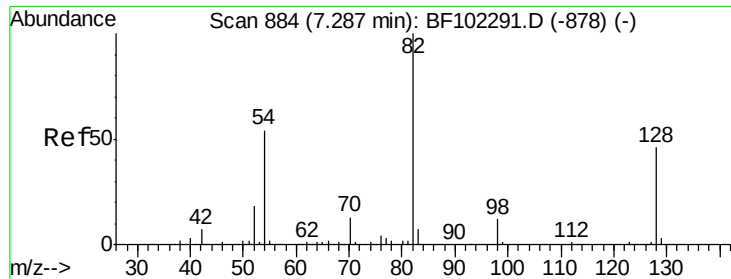
Delta R.T. -0.01 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Tgt Ion:	136	Resp:	578934
Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.9	13.3
54	8.6	6.6	9.8
68	6.2	5.0	7.4





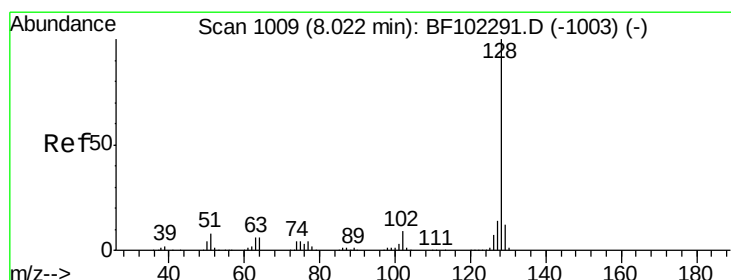
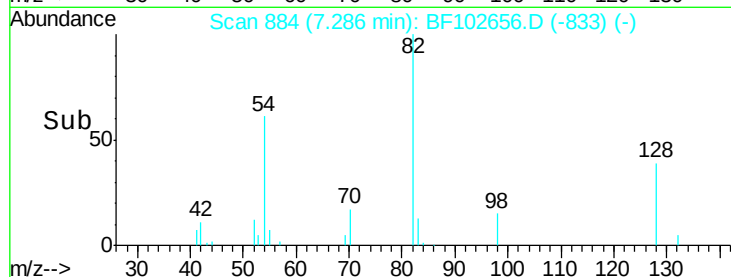
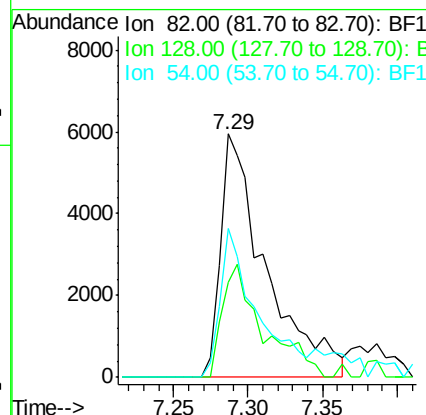
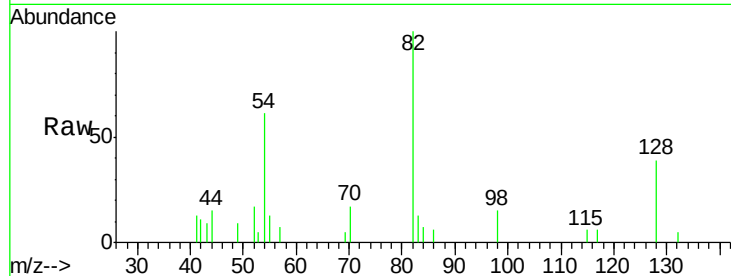
#23
 Nitrobenzene-d5
 Concen: 1.245 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.00 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Instrument :
 BNA_F
 ClientSampled :
 RB-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.0	36.1	54.1
54	61.1	41.4	62.2

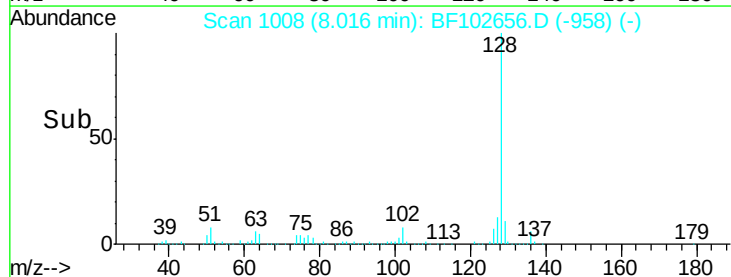
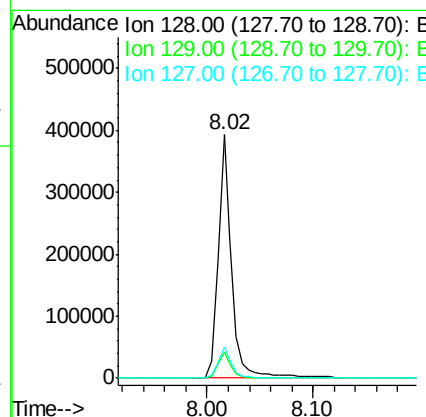
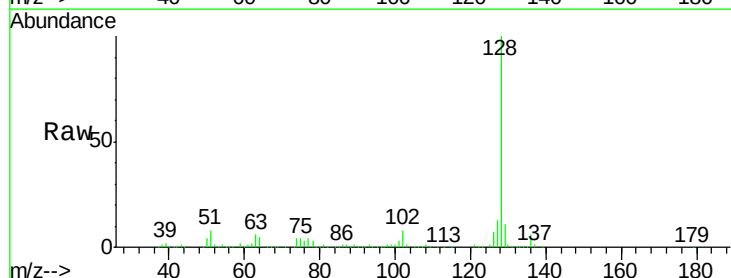
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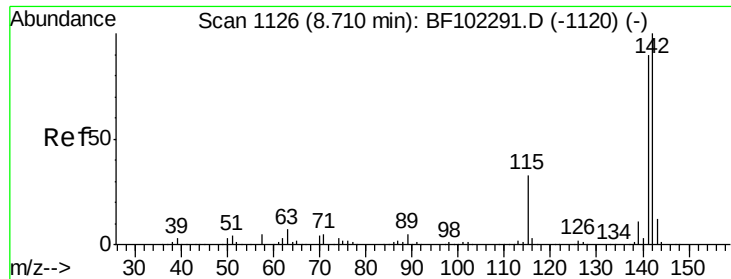
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#31
 Naphthalene
 Concen: 12.252 ng
 RT: 8.02 min Scan# 1008
 Delta R.T. -0.01 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.7	10.9	16.3





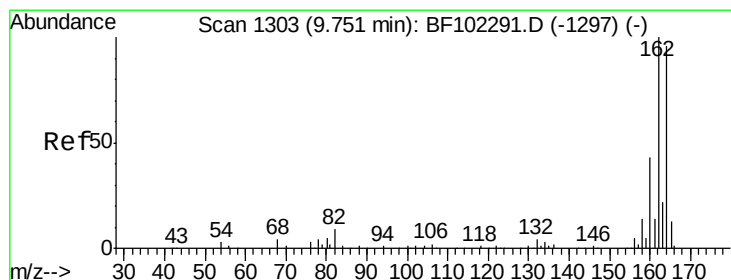
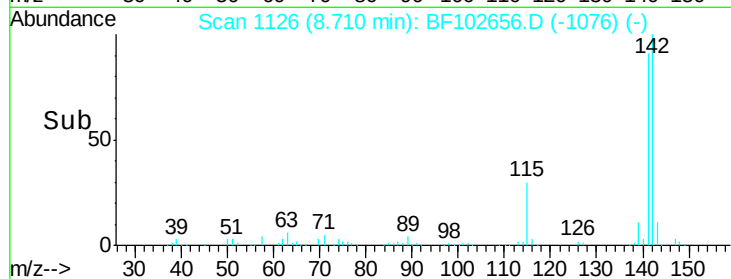
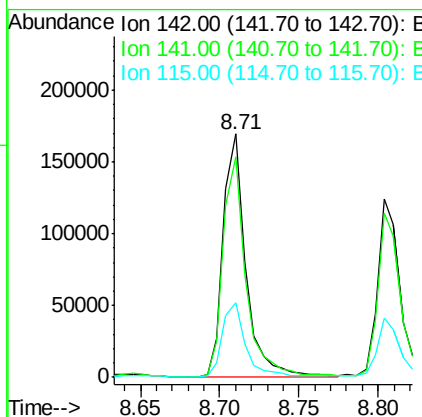
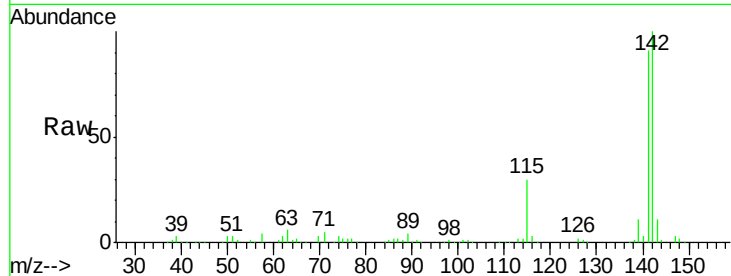
#37
2-Methylnaphthalene
Concen: 8.877 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampleId :
RB-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	30.4	26.1	39.1

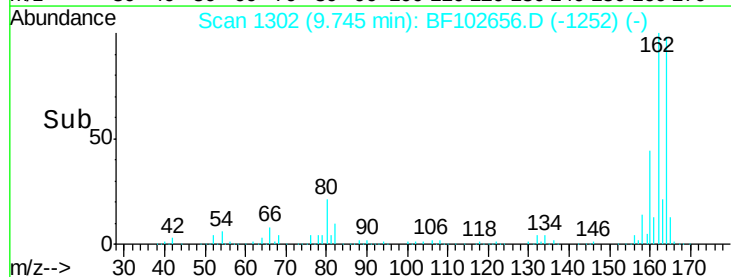
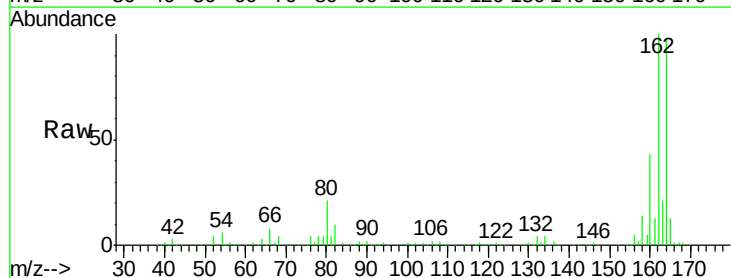
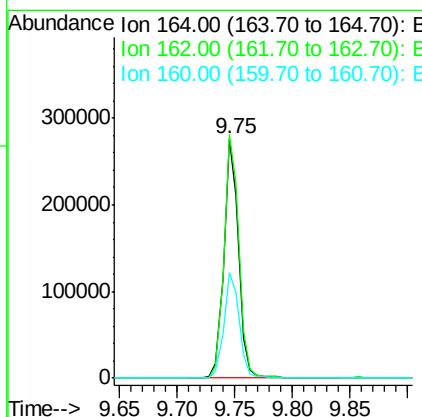
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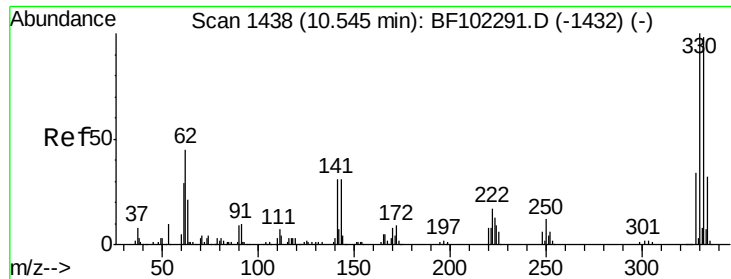
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	86.1	129.1
160	44.4	38.3	57.5





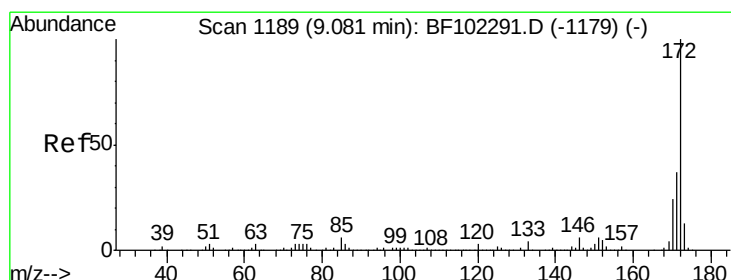
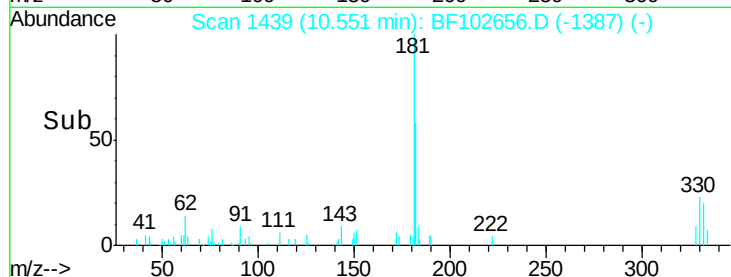
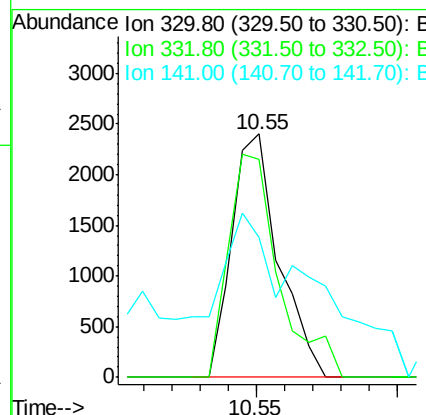
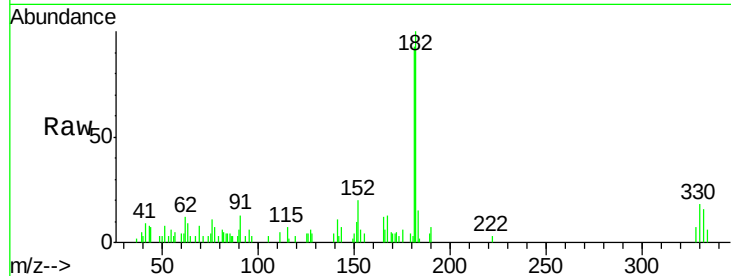
#41
 2,4,6-Tribromophenol
 Concen: 1.145 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Instrument :
 BNA_F
 ClientSampled :
 RB-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.6	77.0	115.6
141	142.5	29.9	44.9#

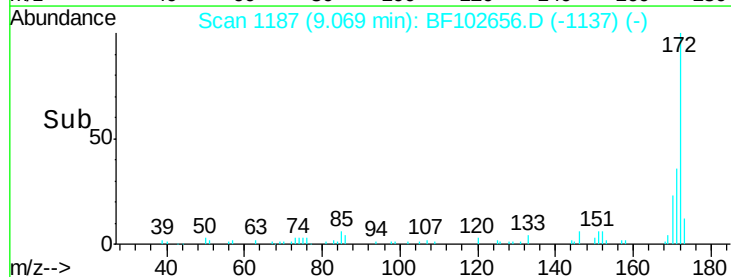
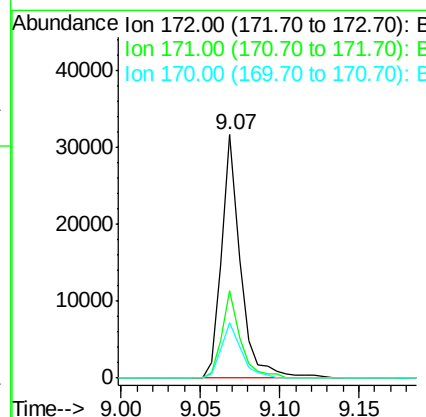
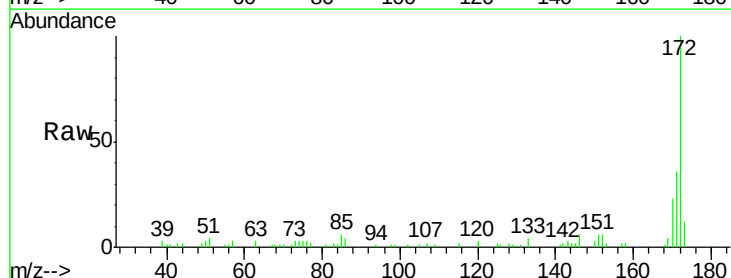
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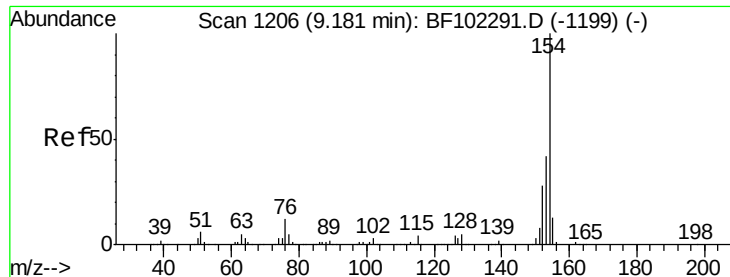
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#44
 2-Fluorobiphenyl
 Concen: 1.589 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	22.7	19.6	29.4





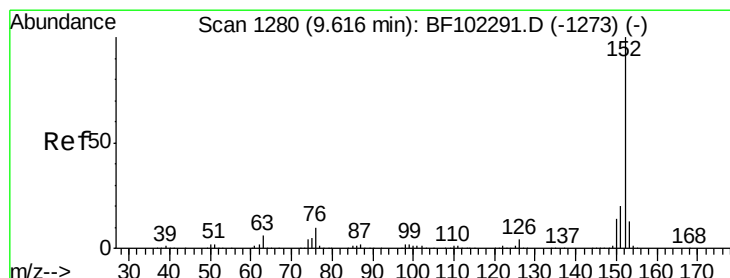
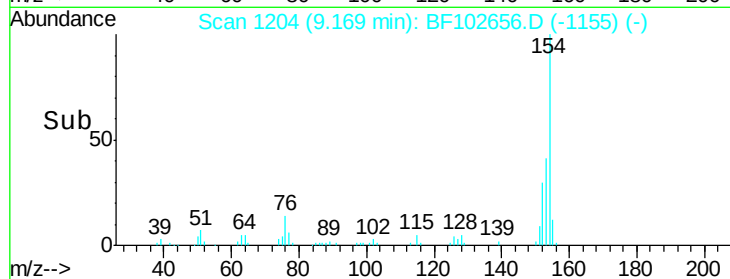
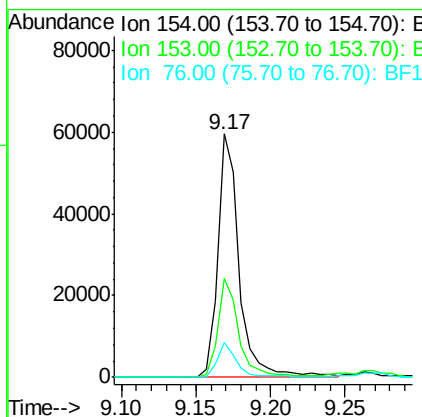
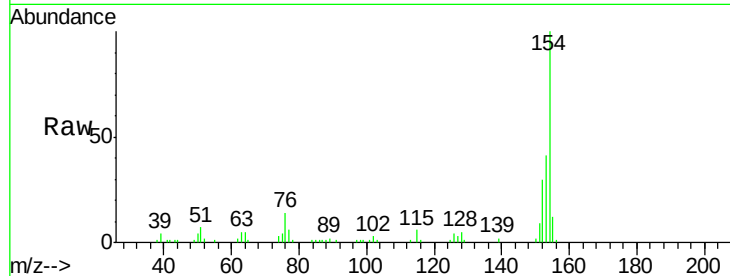
#45
1,1'-Biphenyl
Concen: 2.737 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampleId :
RB-01

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.3	61.3
76	14.1	0.0	34.0

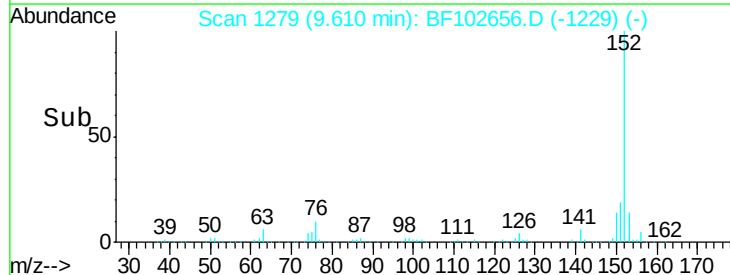
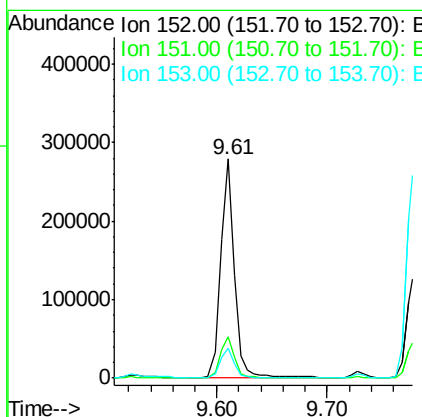
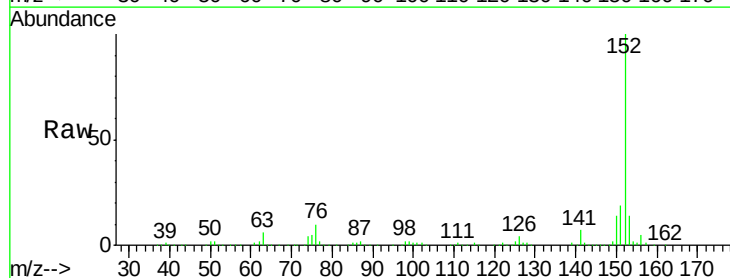
Manual Integrations
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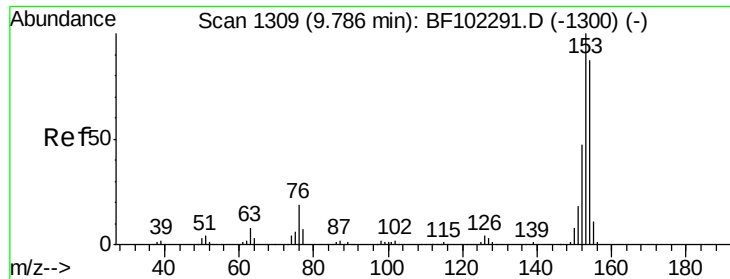
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1/31/2018 2:00:35 PM



#48
Acenaphthylene
Concen: 9.213 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.8	16.3	24.5
153	13.6	10.7	16.1





#51

Acenaphthene

Concen: 14.443 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Instrument :

BNA_F

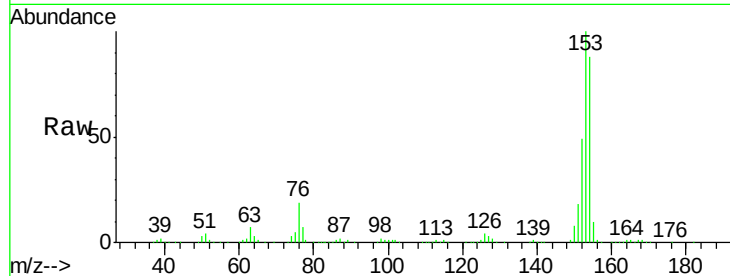
ClientSampleId :

RB-01

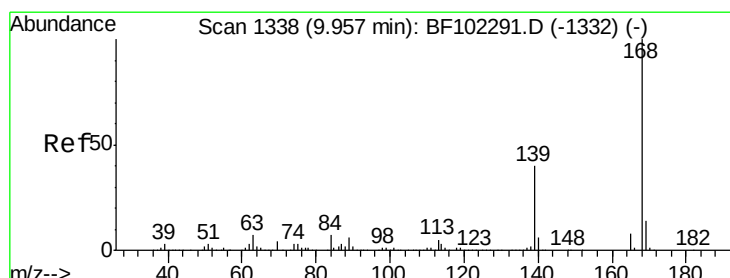
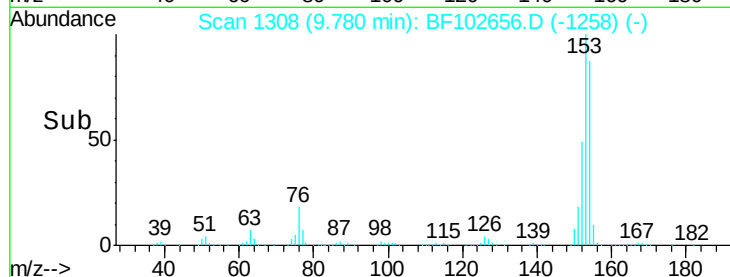
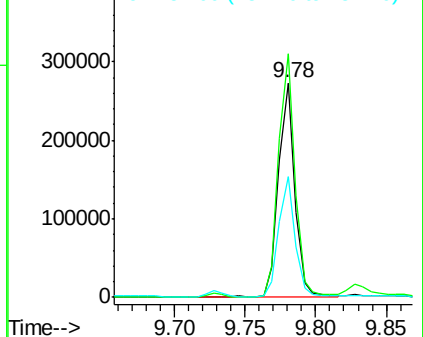
Tot Ion:	154	Resp:	223091
Ion Ratio	Lower	Upper	
154	100		
153	113.5	91.2	136.8
152	56.1	43.8	65.8

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: 12.530 ng

RT: 9.95 min Scan# 1337

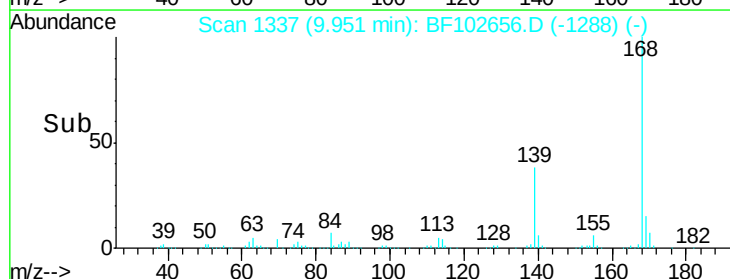
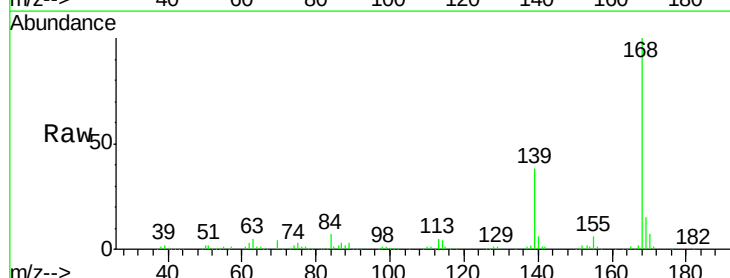
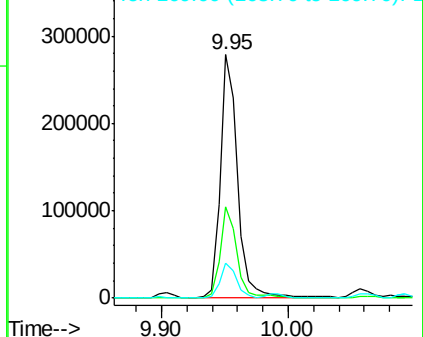
Delta R.T. -0.01 min

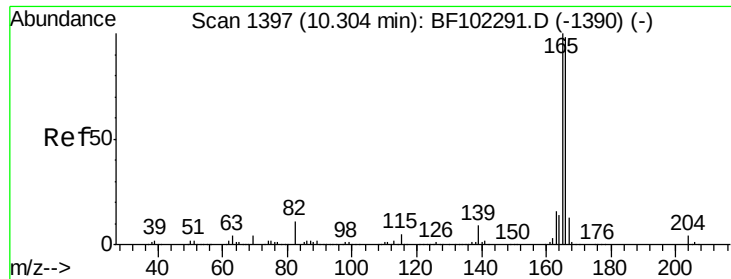
Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Tgt Ion:	168	Resp:	261924
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.1	45.1
169	14.5	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





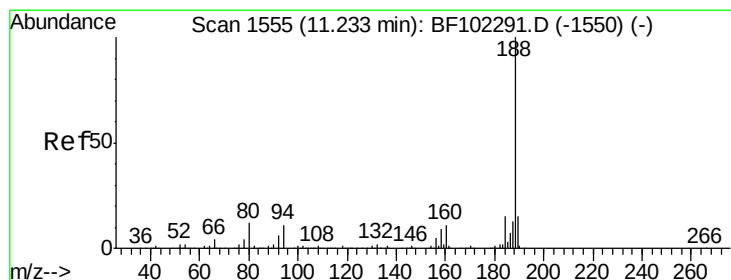
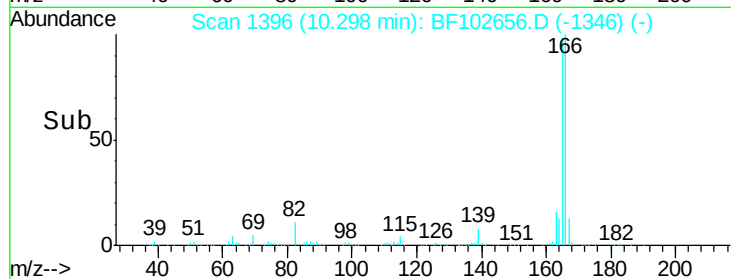
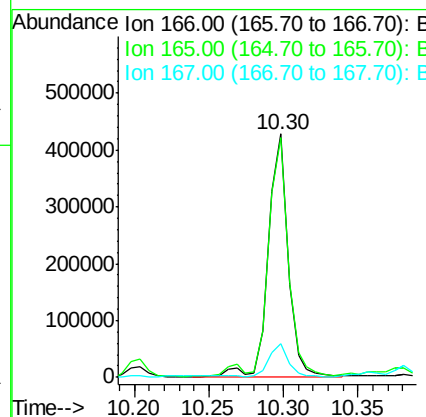
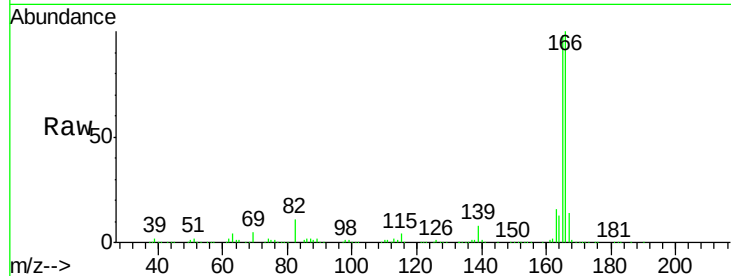
#57
 Fluorene
 Concen: 23.652 ng
 RT: 10.30 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Instrument :
 BNA_F
 ClientSampled :
 RB-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.8	119.8
167	13.7	10.6	16.0

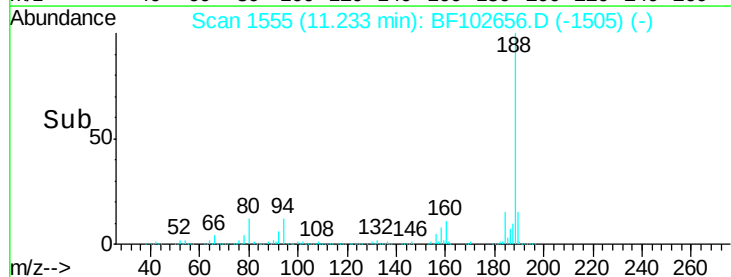
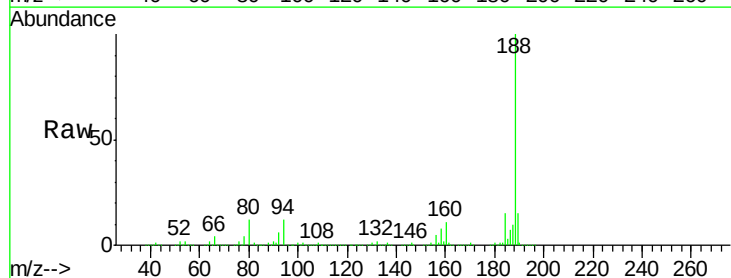
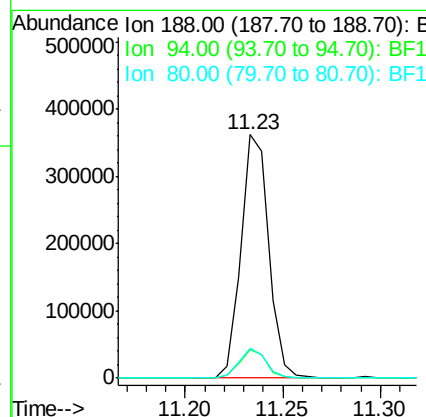
Manual Integrations
 APPROVED

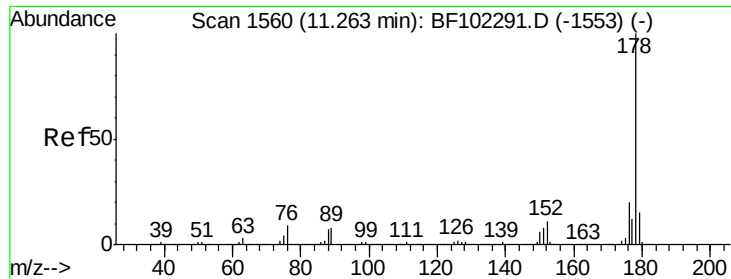
Sohil
 1/31/2018 2:00:35 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.23 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: BF102656.D
 Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	8.5	12.7
80	12.3	9.2	13.8





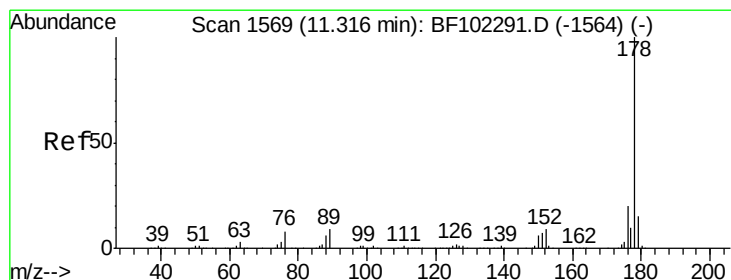
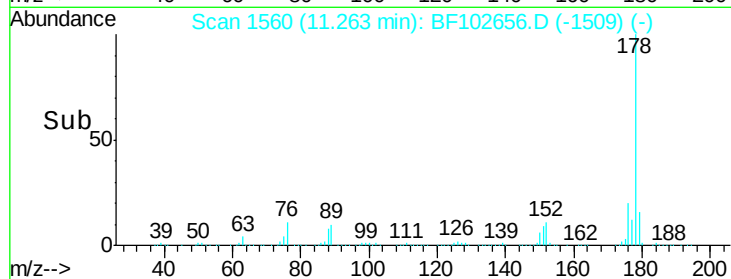
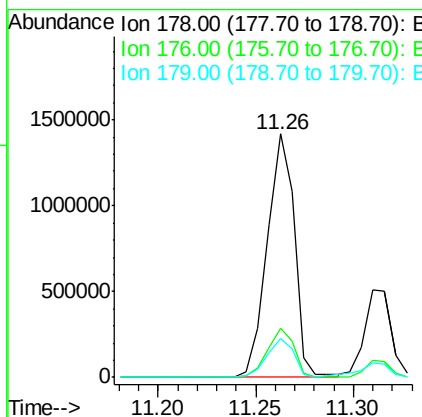
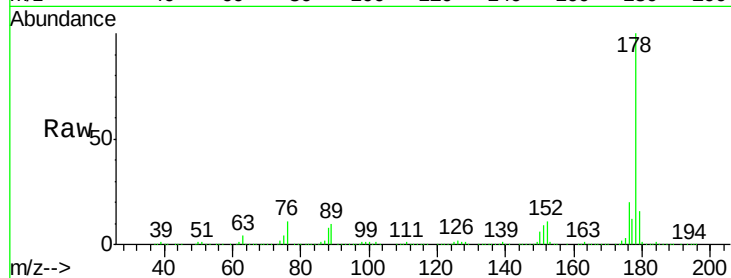
#70
Phenanthrene
Concen: 66.032 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampled :
RB-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.8
179	15.9	13.0	19.6

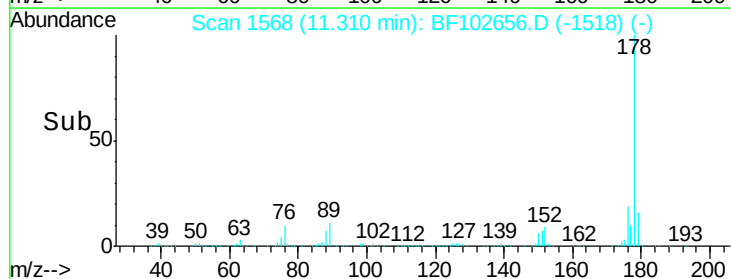
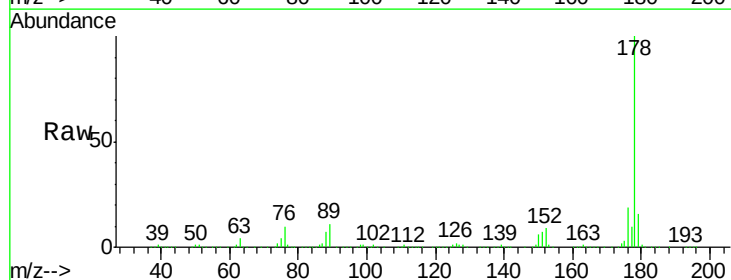
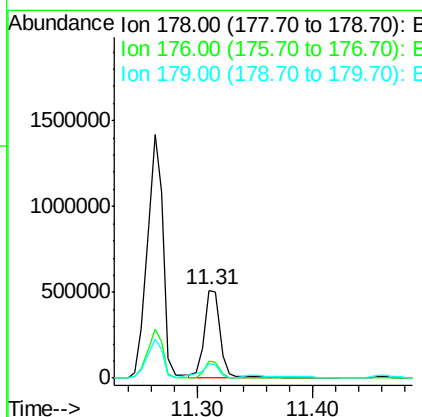
Manual Integrations
APPROVED

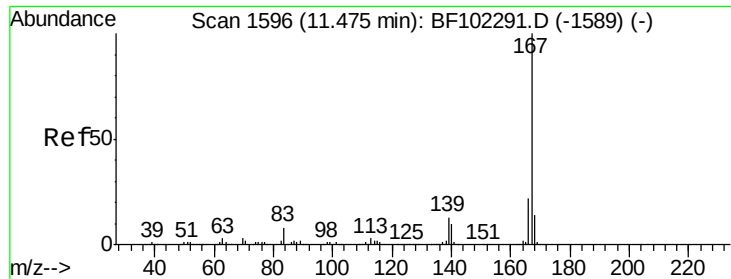
Sohil
1/31/2018 2:00:35 PM



#71
Anthracene
Concen: 23.776 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.4	12.6	19.0





#72

Carbazole

Concen: 6.142 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Instrument :

BNA_F

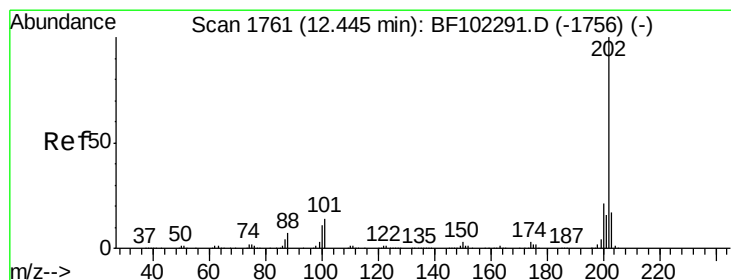
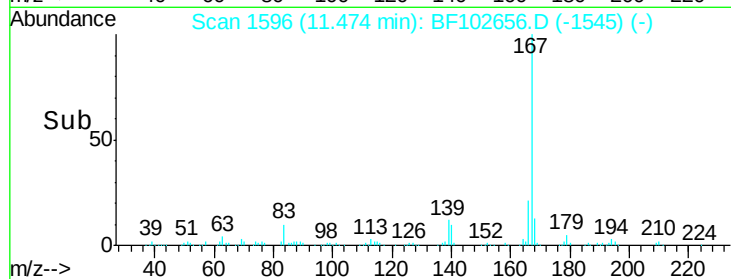
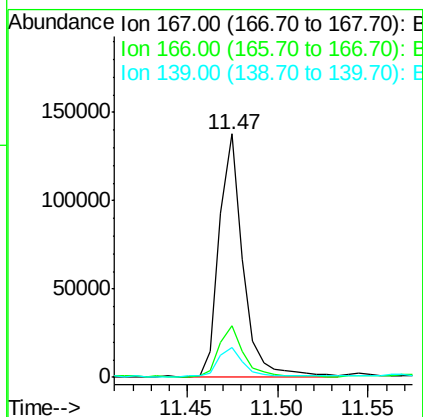
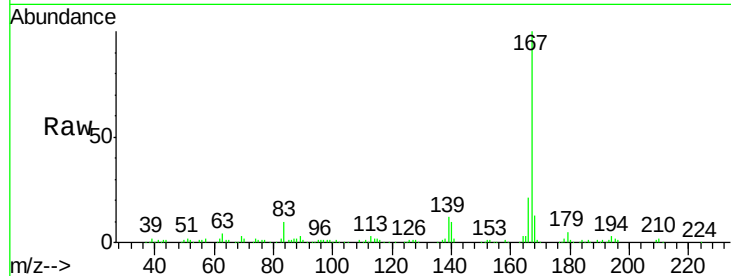
ClientSampled :

RB-01

Tot Ion:	167	Resp:	127276
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.6	26.4
139	12.1	10.9	16.3

Manual Integrations
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Sohil
1/31/2018 2:00:35 PM



#74

Fluoranthene

Concen: 55.878 ng

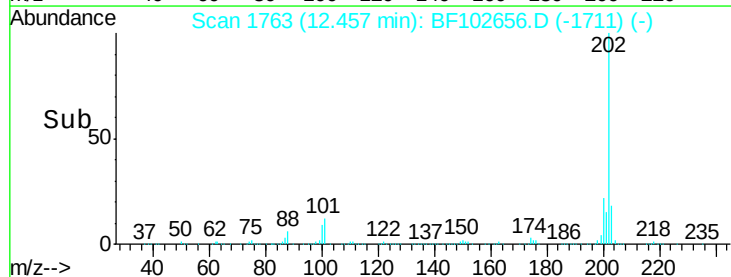
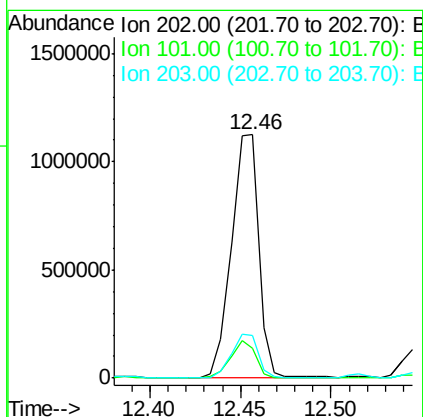
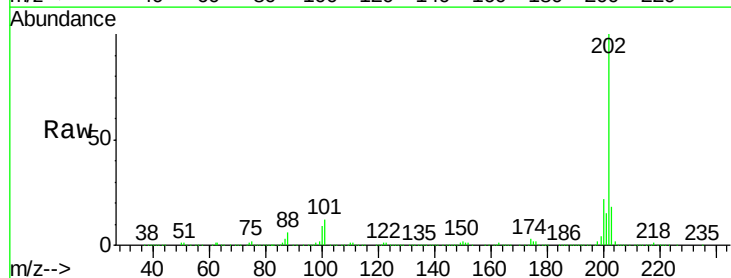
RT: 12.46 min Scan# 1763

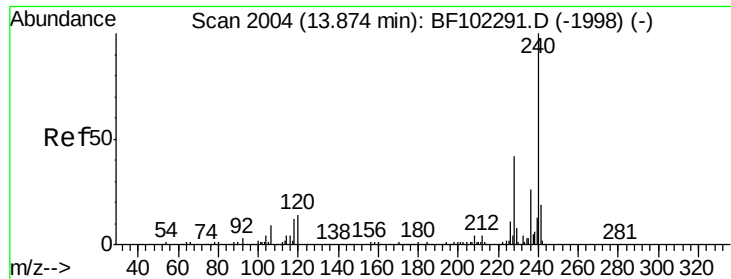
Delta R.T. 0.01 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Tgt Ion:	202	Resp:	1185893
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.00 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Instrument :

BNA_F

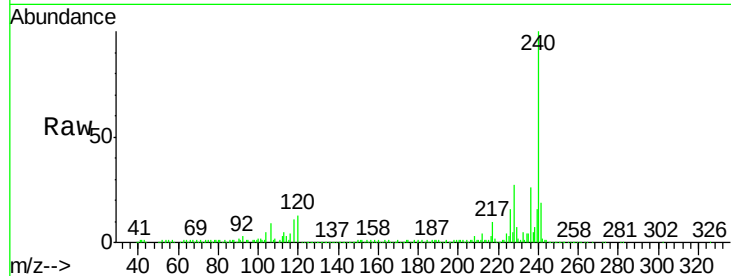
ClientSampled :

RB-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.5	14.3
236	26.0	20.7	31.1

Manual Integrations
APPROVED

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1/31/2018 2:00:35 PM



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

13.88

300000

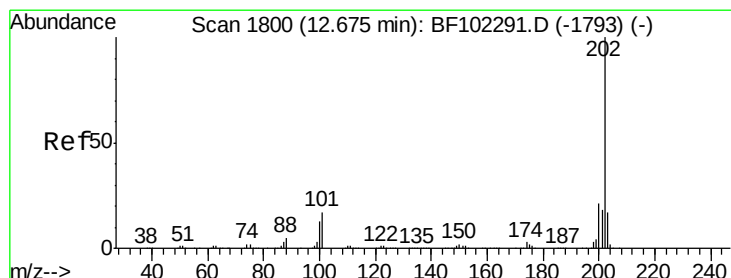
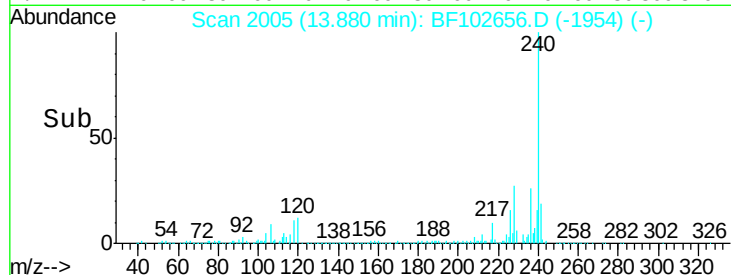
200000

100000

0

13.80 13.85 13.90 13.95

Time-->



#77

Pyrene

Concen: 52.092 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	18.0	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

12.68

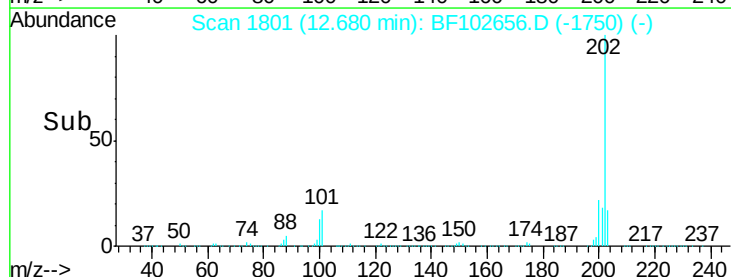
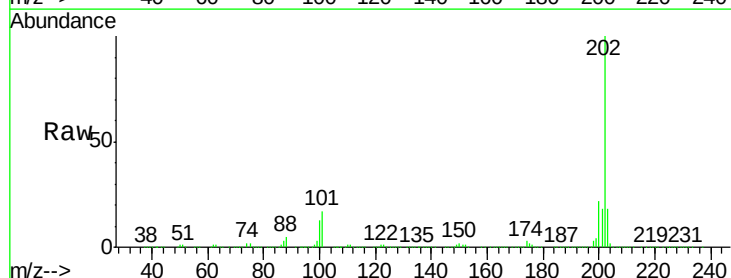
1000000

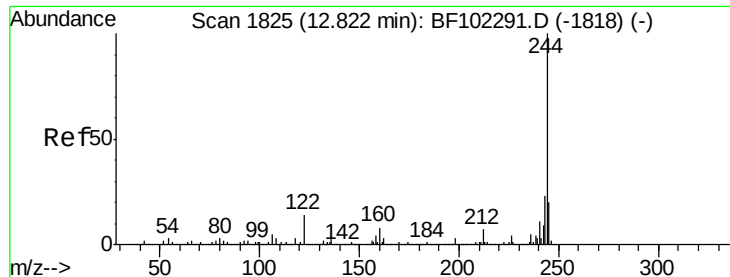
500000

0

12.60 12.70

Time-->





#78

Terphenyl-d14

Concen: 1.646 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Instrument :

BNA_F

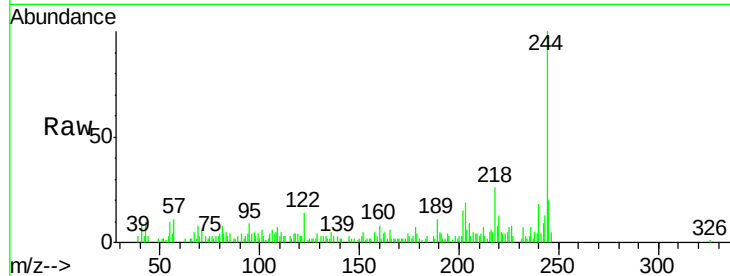
ClientSampled :

RB-01

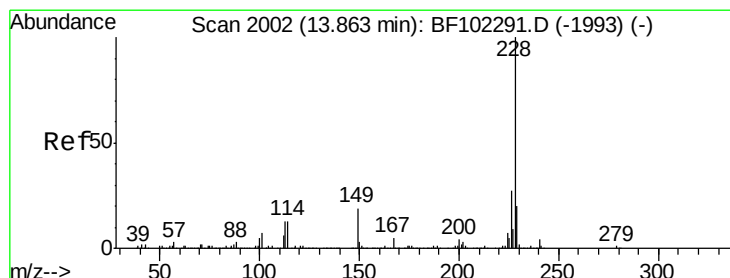
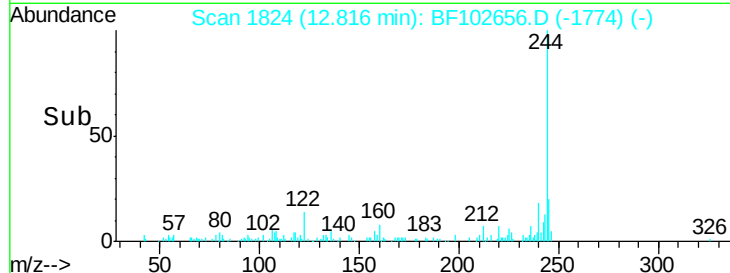
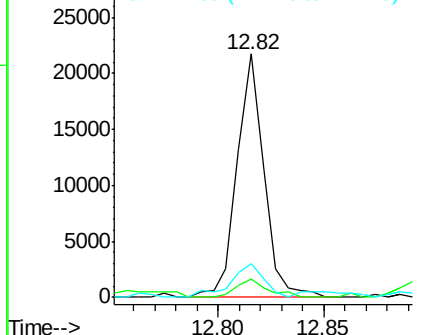
Tot Ion:	244	Resp:	19206
Ion Ratio	Lower	Upper	
244	100		
212	7.3	5.4	8.0
122	13.9	11.0	16.4

Manual Integrations
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Sohil
1/31/2018 2:00:35 PM



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: 28.053 ng m

RT: 13.87 min Scan# 2003

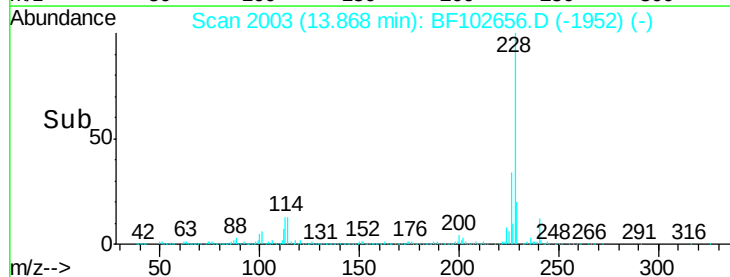
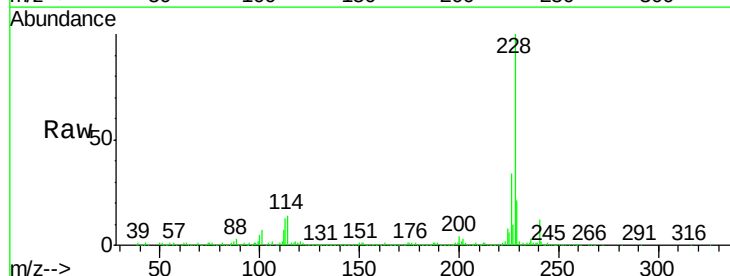
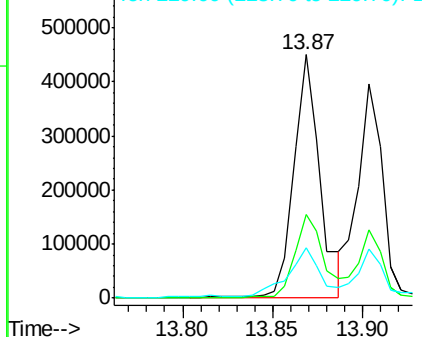
Delta R.T. -0.00 min

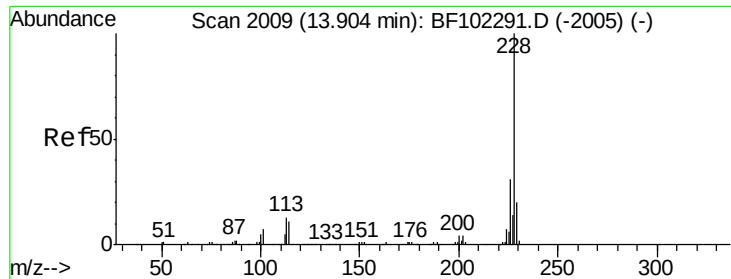
Lab File: BF102656.D

Acq: 30 Jan 2018 22:51

Tgt Ion:	228	Resp:	454223
Ion Ratio	Lower	Upper	
228	100		
226	34.5	22.6	33.8#
229	20.9	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





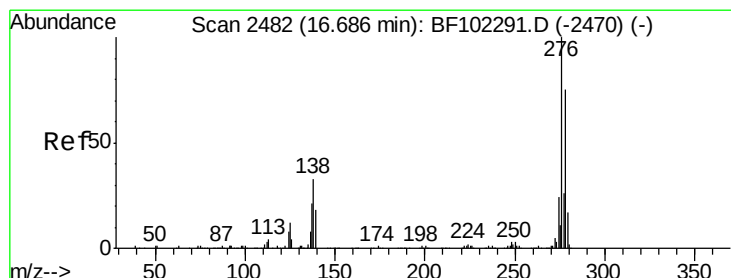
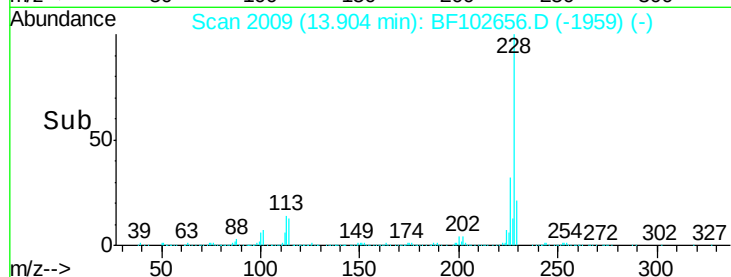
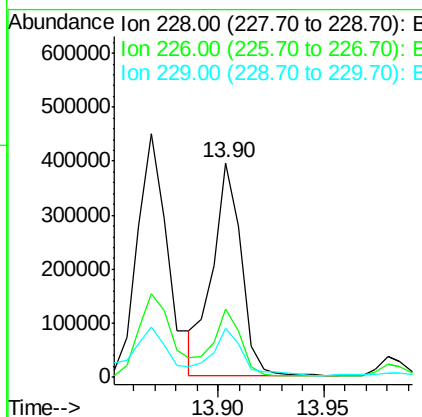
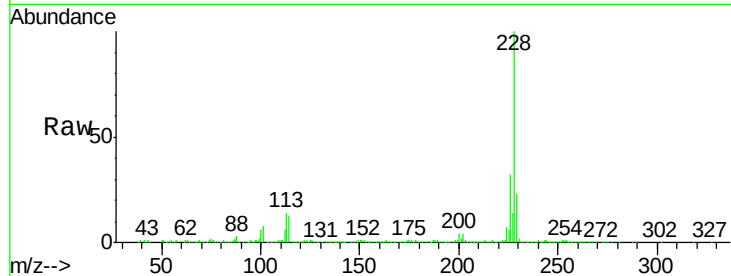
#82
Chrysene
Concen: 22.657 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampled :
RB-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.6
229	22.6	16.2	24.4

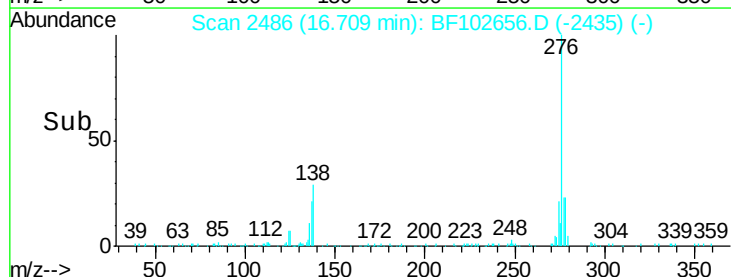
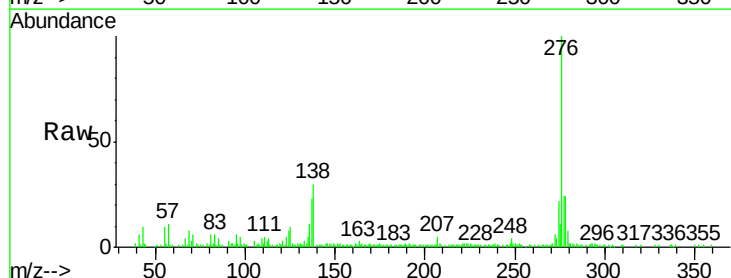
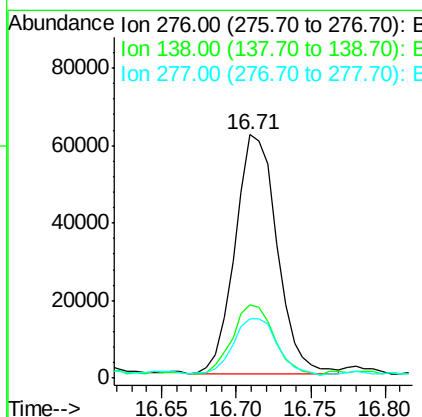
Manual Integrations
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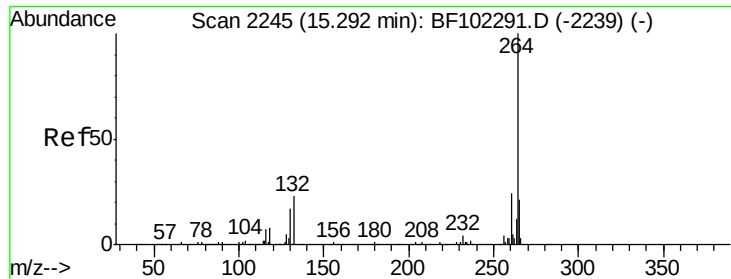
Sohil
1/31/2018 2:00:35 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 8.880 ng
RT: 16.71 min Scan# 2486
Delta R.T. -0.00 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.8	25.0	37.6
277	24.6	20.1	30.1





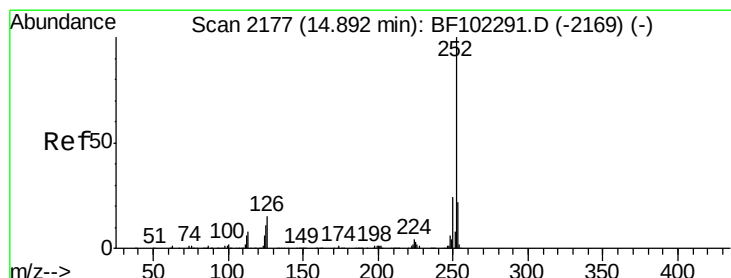
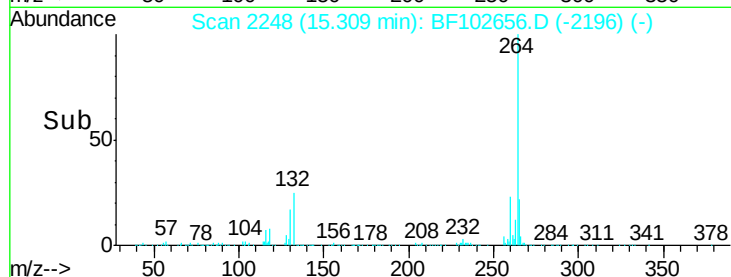
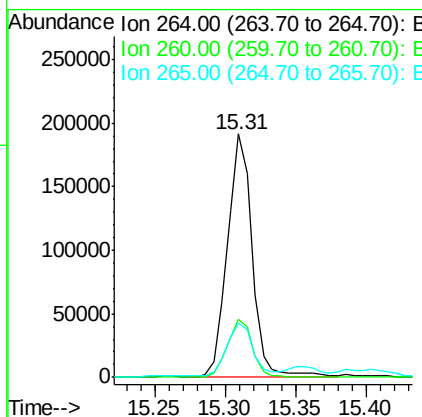
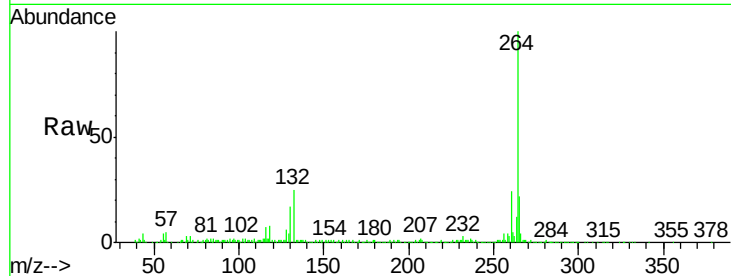
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.31 min Scan# 2248
Delta R.T. 0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampled :
RB-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.5	17.5	26.3

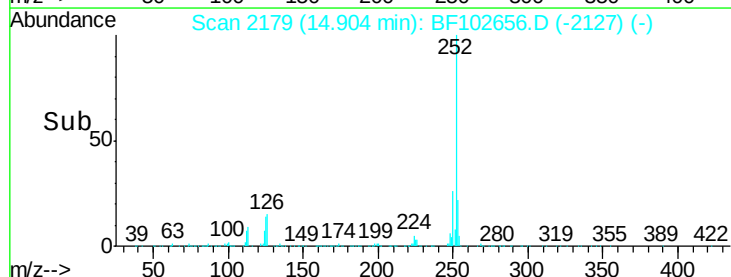
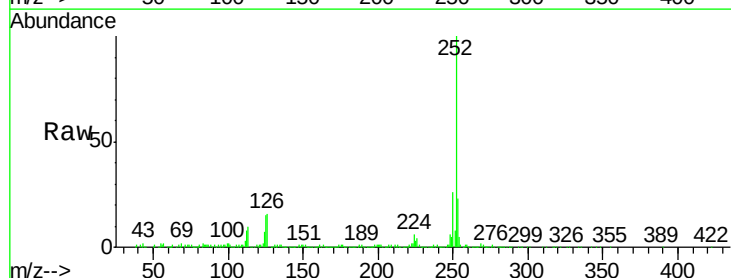
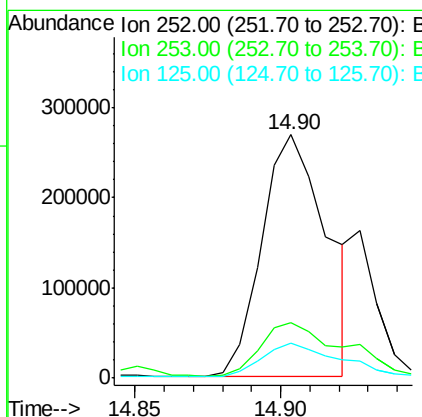
Manual Integrations
APPROVED

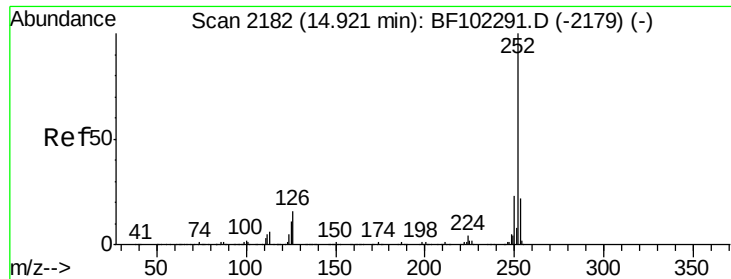
Sohil
1/31/2018 2:00:35 PM



#87
Benzo(b)fluoranthene
Concen: 27.912 ng m
RT: 14.90 min Scan# 2179
Delta R.T. 0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	14.6	9.0	13.6





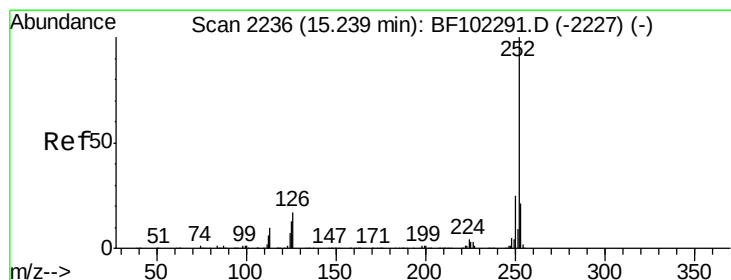
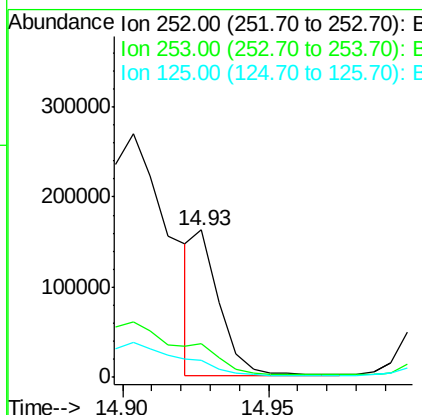
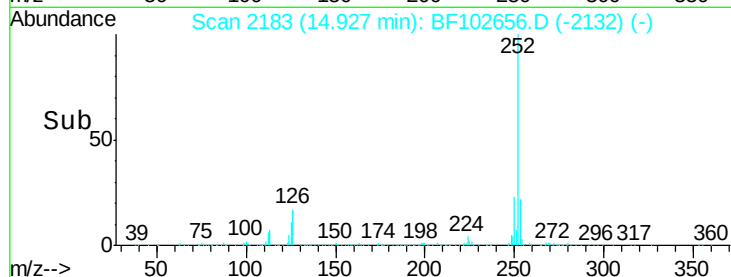
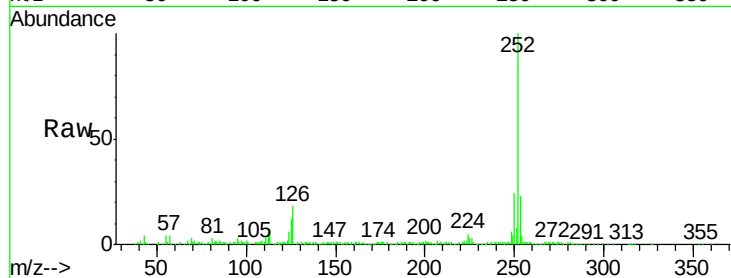
#88
Benzo(k)fluoranthene
Concen: 7.148 ng m
RT: 14.93 min Scan# 2183
Delta R.T. -0.00 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampleId :
RB-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	11.9	10.2	15.2

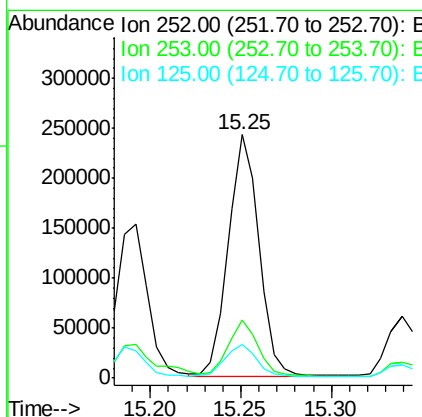
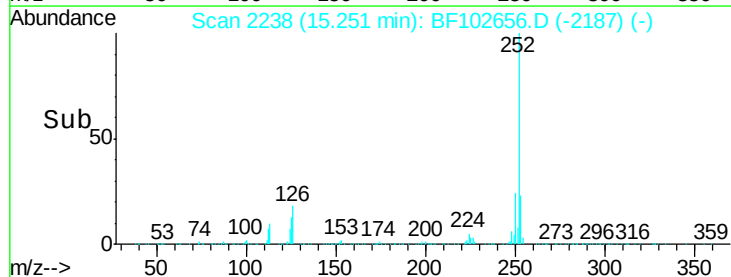
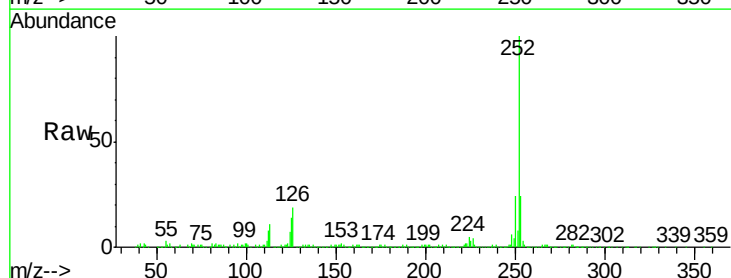
Manual Integrations
APPROVED

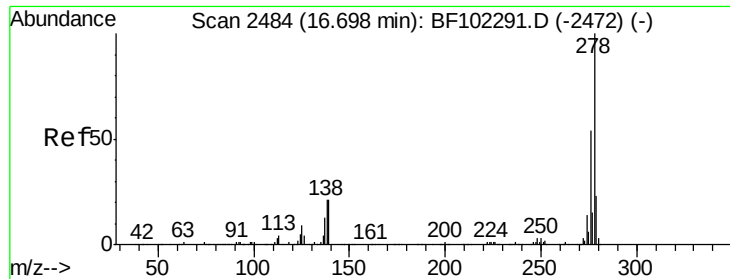
Sohil
1/31/2018 2:00:35 PM



#89
Benzo(a)pyrene
Concen: 21.083 ng
RT: 15.25 min Scan# 2238
Delta R.T. -0.00 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	14.0	9.8	14.6





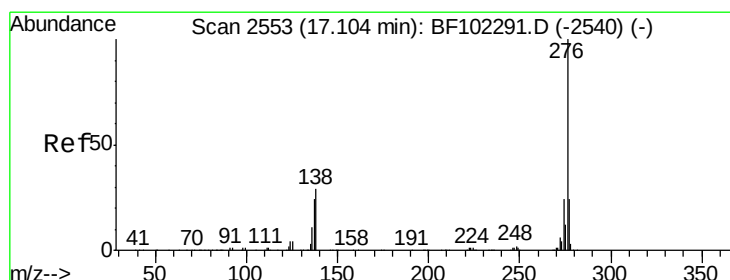
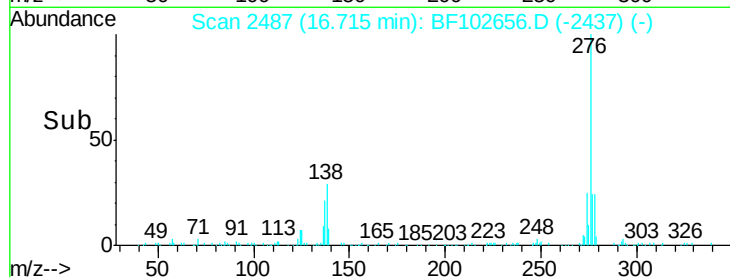
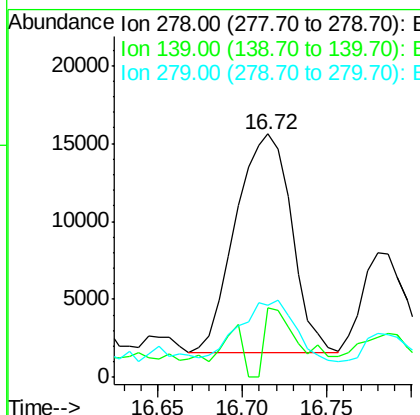
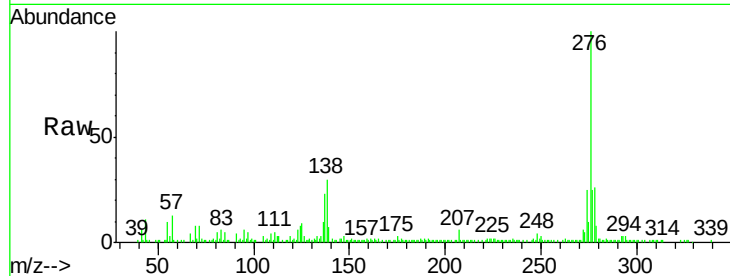
#90
Dibenzo(a,h)anthracene
Concen: 2.947 ng
RT: 16.72 min Scan# 2487
Delta R.T. -0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Instrument :
BNA_F
ClientSampled :
RB-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	28.7	15.9	23.9#
279	29.8	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/31/2018 2:00:35 PM



#91
Benzo(g,h,i)perylene
Concen: 10.820 ng
RT: 17.14 min Scan# 2559
Delta R.T. 0.01 min
Lab File: BF102656.D
Acq: 30 Jan 2018 22:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	28.8	21.8	32.8

