

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103958.D
 Acq On : 27 Mar 2018 6:49
 Operator : JU/SJ
 Sample : J1996-03DL 100X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

Manual Integrations
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Sohil
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Quant Time: Mar 27 08:57:55 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	115842	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	472298	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	209854	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	333812	20.00	ng	0.00
75) Chrysene-d12	14.16	240	232444	20.00	ng	0.00
86) Perylene-d12	15.70	264	218585	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	944	0.12	ng	0.00
7) Phenol-d6	6.59	99	1381	0.15	ng	-0.01
23) Nitrobenzene-d5	7.53	82	923	0.14	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	237	0.13	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	2981	0.23	ng	0.00
78) Terphenyl-d14	13.09	244	3251	0.32	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.28	128	998814	41.865	ng	99
37) 2-Methylnaphthalene	8.97	142	53005	3.503	ng	99
45) 1,1'-Biphenyl	9.43	154	57276	3.273	ng	96
48) Acenaphthylene	9.87	152	94088	4.366	ng	97
51) Acenaphthene	10.05	154	152502	11.917	ng	99
54) Dibenzofuran	10.22	168	171195	9.367	ng	96
57) Fluorene	10.56	166	237182	16.724	ng	100
70) Phenanthrene	11.53	178	908055	49.728	ng	99
71) Anthracene	11.59	178	276416	14.904	ng	99
72) Carbazole	11.74	167	82114	4.555	ng	98
74) Fluoranthene	12.73	202	626287	33.291	ng	99
77) Pyrene	12.96	202	556815	32.619	ng	100
80) Benzo(a)anthracene	14.15	228	246495m	16.753	ng	
82) Chrysene	14.19	228	194593	13.874	ng	98
85) Indeno(1,2,3-cd)pyrene	17.28	276	87083	7.110	ng	93
87) Benzo(b)fluoranthene	15.24	252	212840m	15.412	ng	
88) Benzo(k)fluoranthene	15.27	252	82848m	6.241	ng	
89) Benzo(a)pyrene	15.64	252	180282	14.393	ng	97
90) Dibenzo(a,h)anthracene	17.29	278	24915m	2.297	ng	
91) Benzo(a,h,i)perylene	17.76	276	83427	7.907	ng	97

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

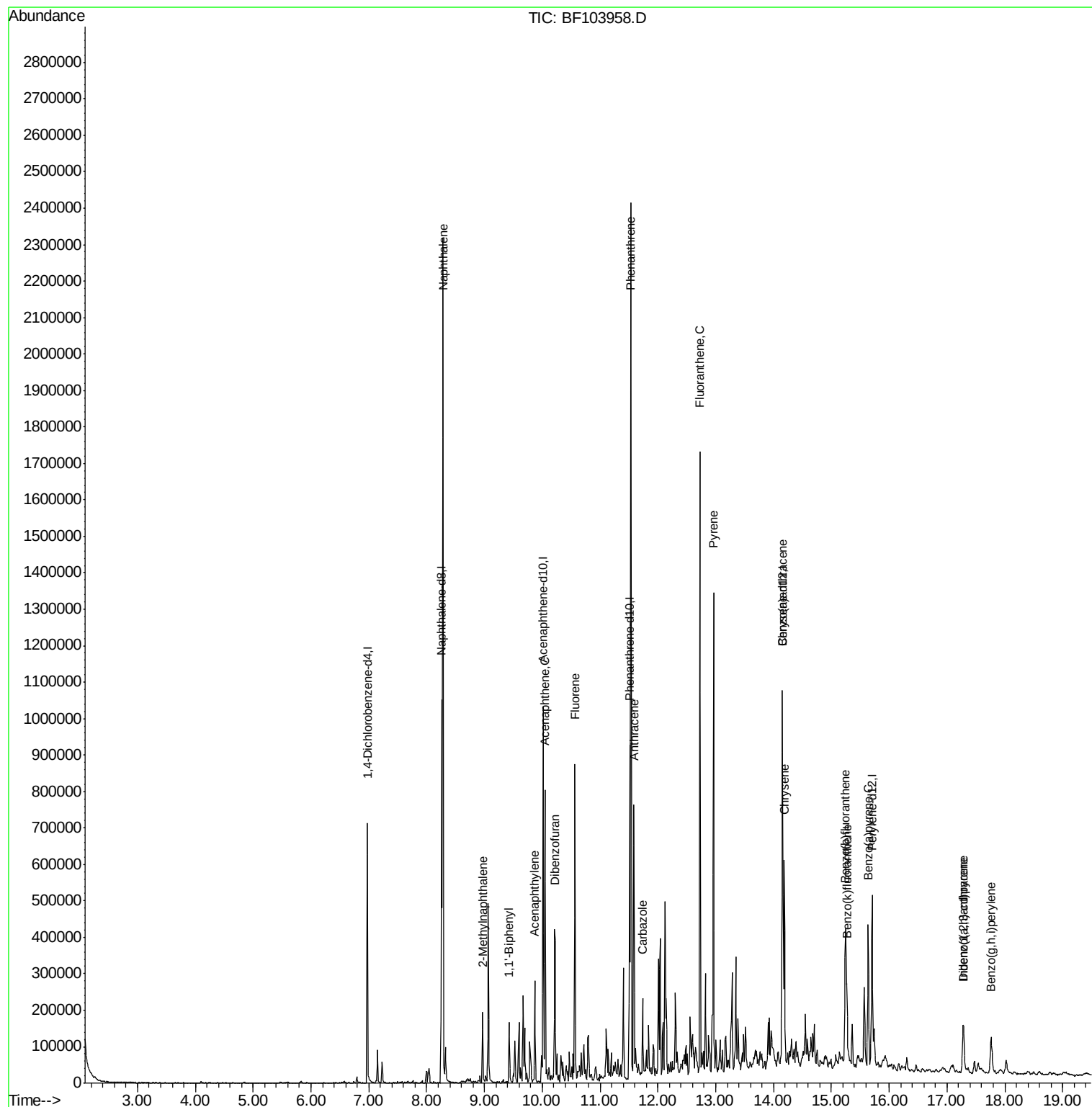
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103958.D
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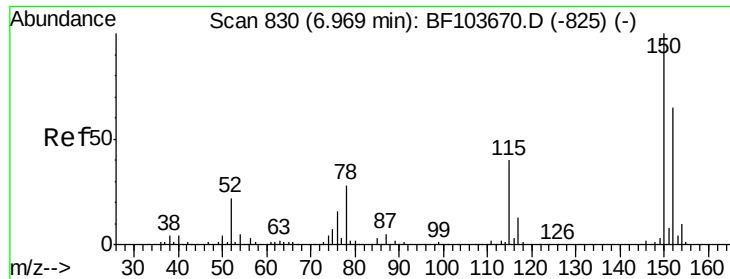
Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

Manual Integrations
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Quant Time: Mar 27 08:57:55 2018
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

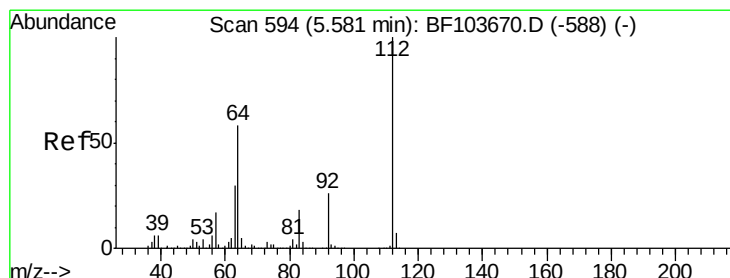
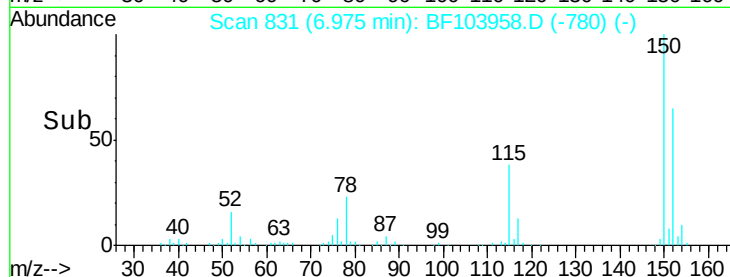
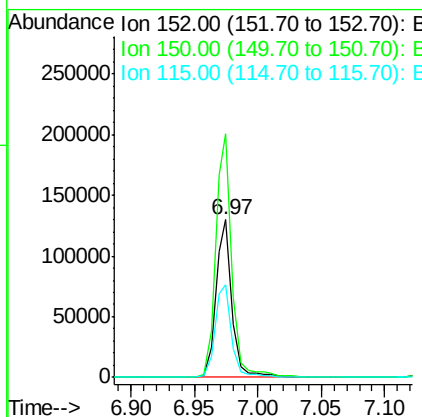
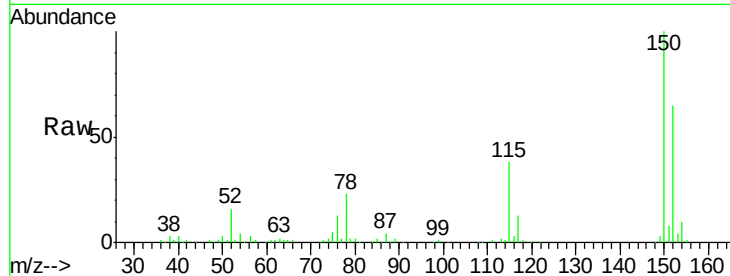
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	59.1	50.1	75.1

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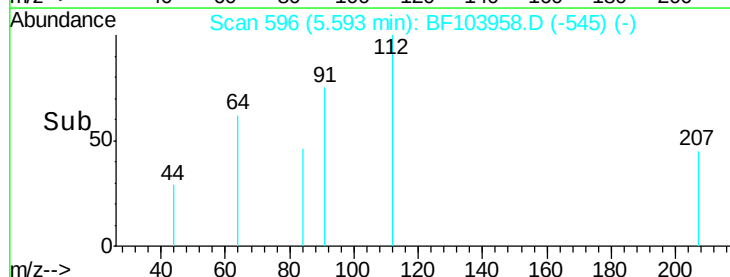
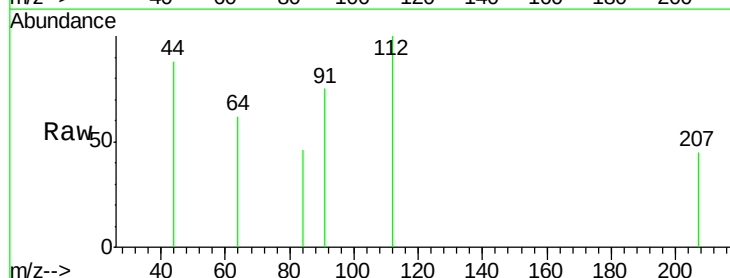
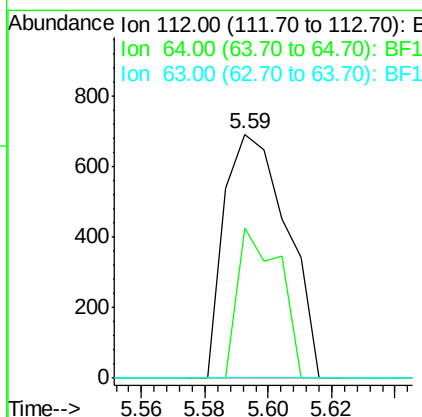
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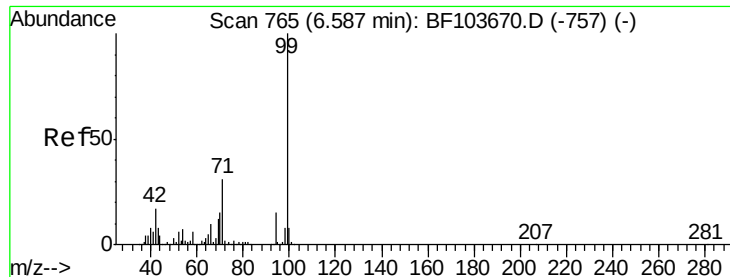


#5

2-Fluorophenol
Concen: 0.124 ng
RT: 5.59 min Scan# 596
Delta R.T. -0.00 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	47.9	71.9
63	0.0	23.7	35.5#





#7

Phenol-d6

Concen: 0.148 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

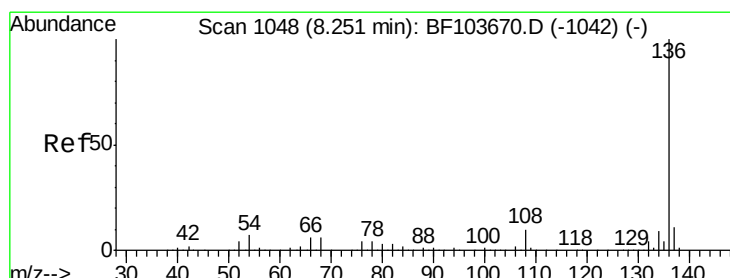
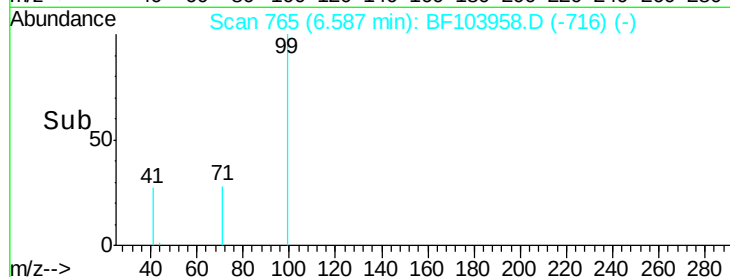
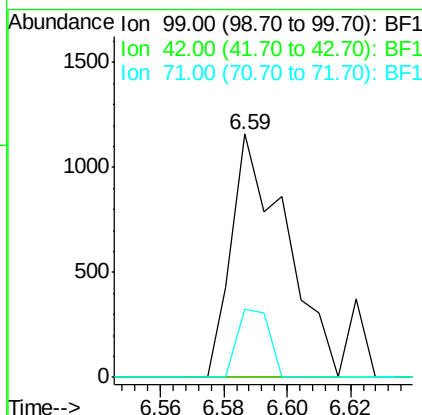
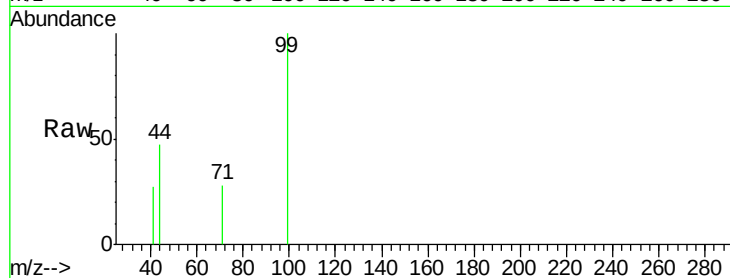
ClientSampleId :

A2_SB43_S_4DL

Tot Ion:	99	Resp:	1381
Ion Ratio	Lower	Upper	
99	100		
42	0.0	14.5	21.7#
71	27.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

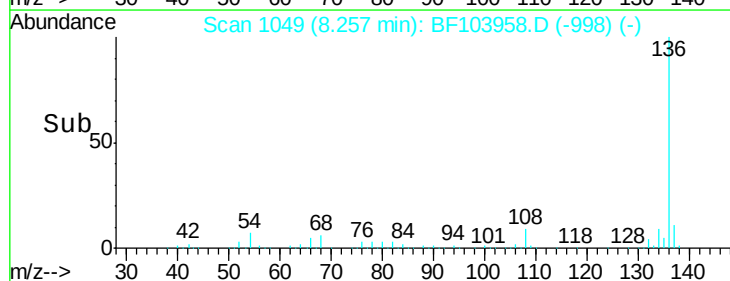
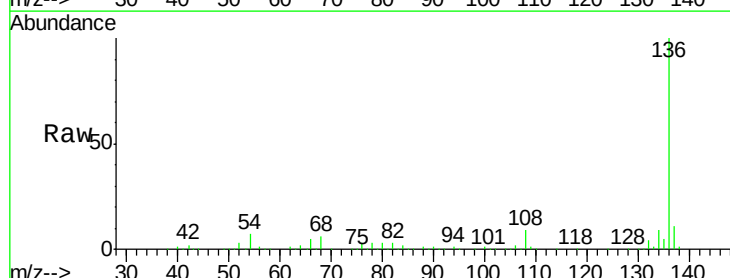
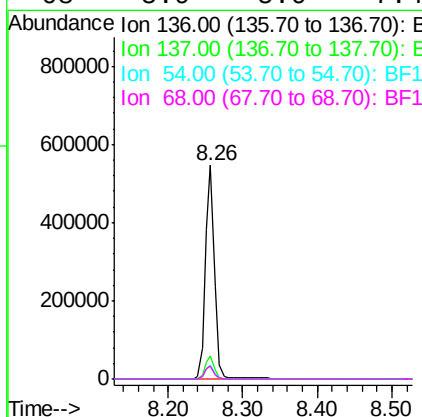
RT: 8.26 min Scan# 1049

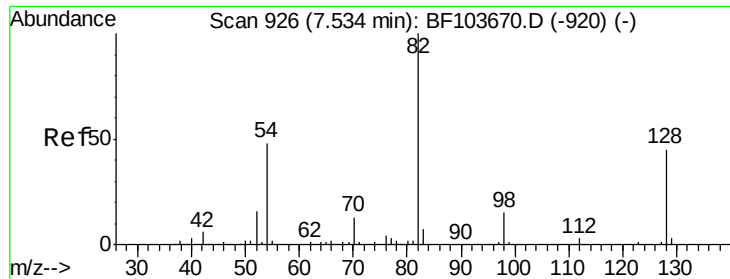
Delta R.T. -0.00 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Tgt Ion:	136	Resp:	472298
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	6.8	6.6	9.8
68	5.9	5.0	7.4





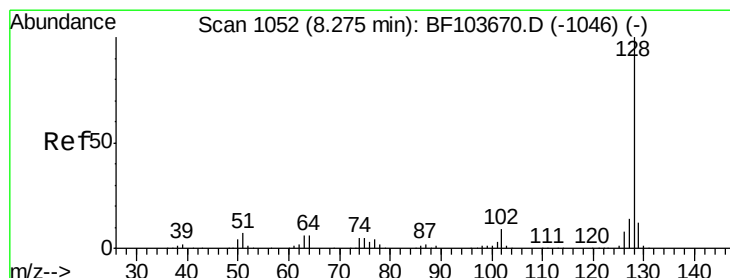
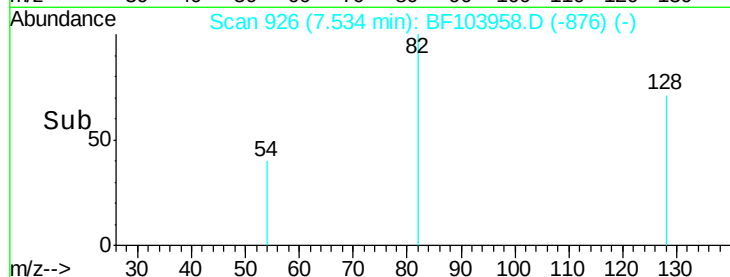
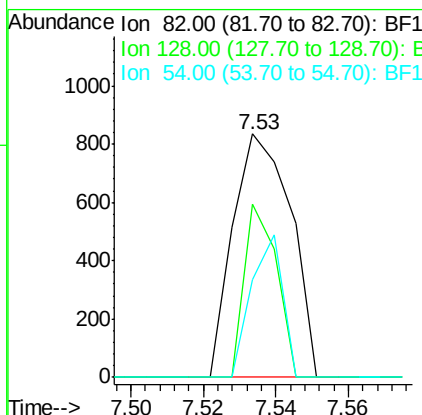
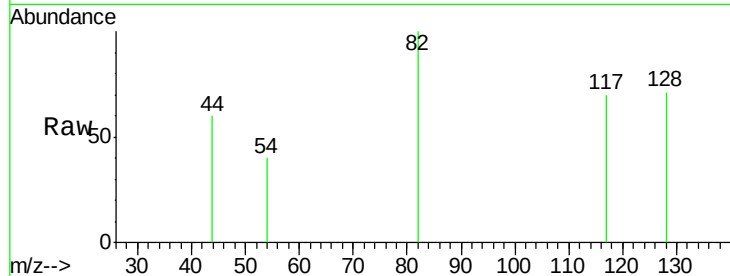
#23
 Nitrobenzene-d5
 Concen: 0.136 ng
 RT: 7.53 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	71.3	36.1	54.1#
54	40.4	41.4	62.2#

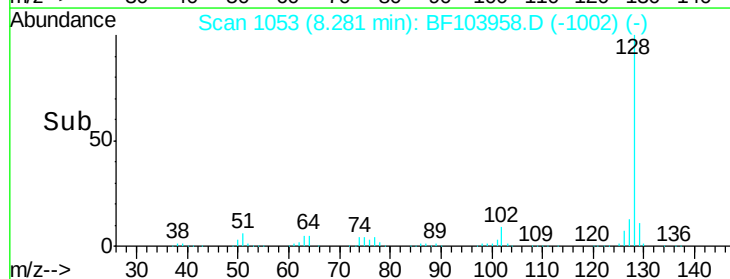
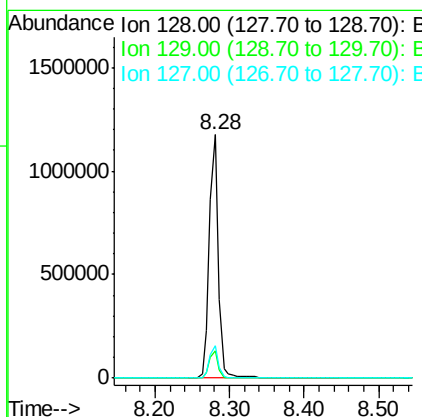
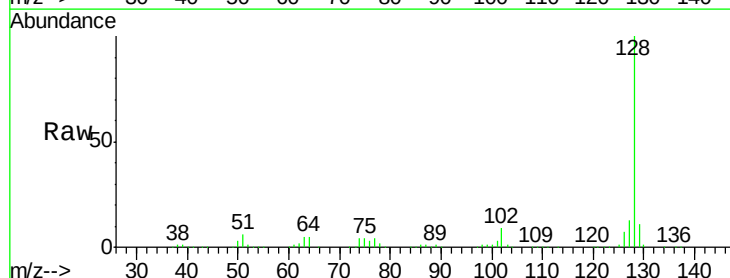
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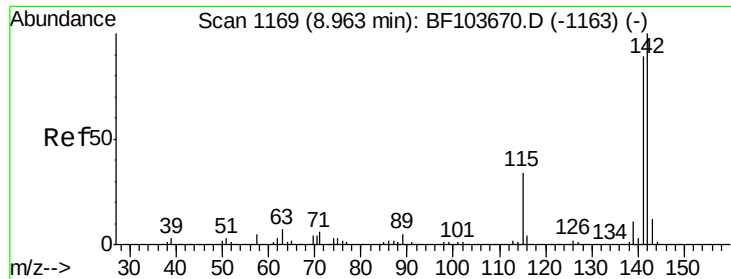
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#31
 Naphthalene
 Concen: 41.865 ng
 RT: 8.28 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.5	10.9	16.3





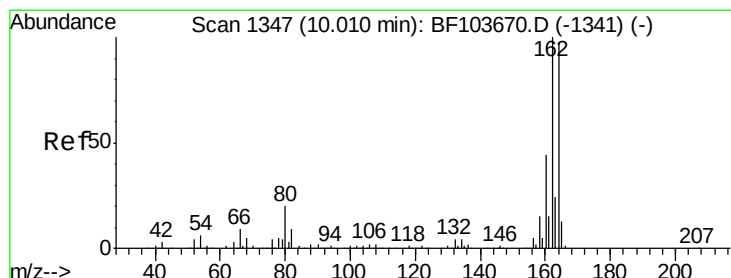
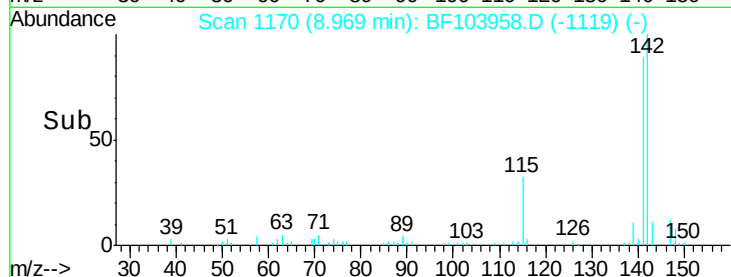
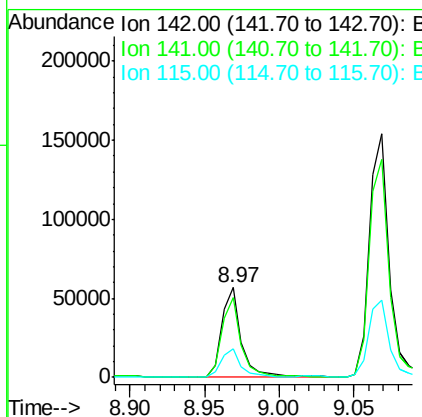
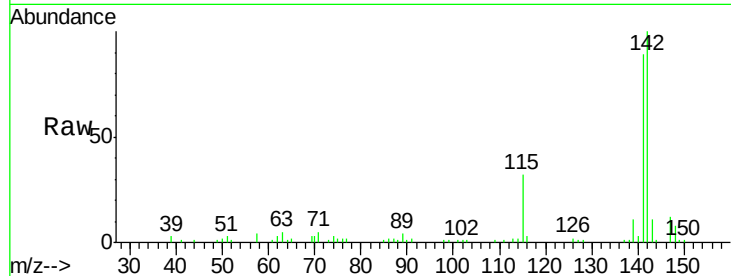
#37
2-Methylnaphthalene
Concen: 3.503 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2
115	31.9	26.1	39.1

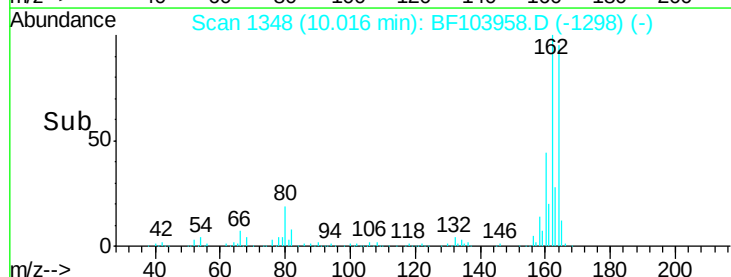
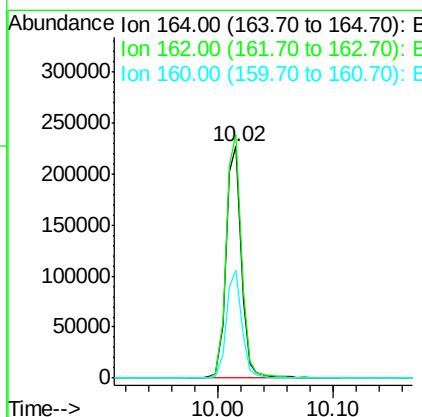
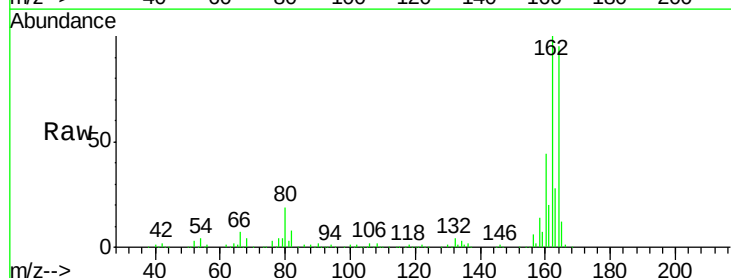
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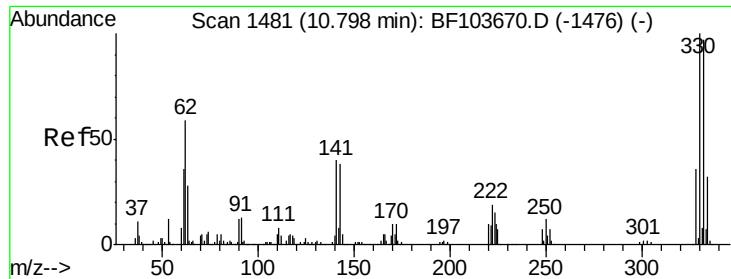
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	86.1	129.1
160	46.5	38.3	57.5





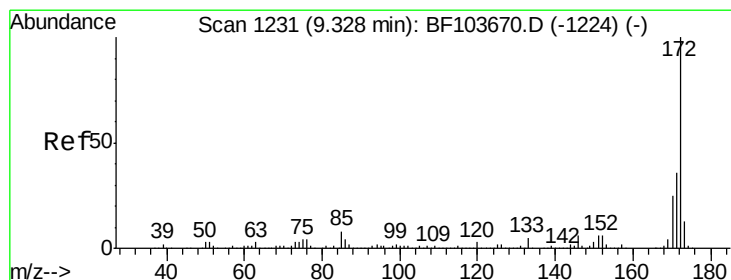
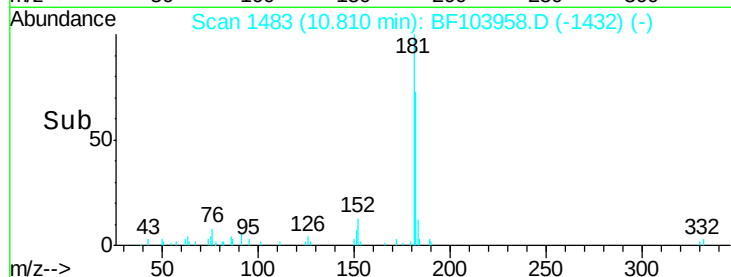
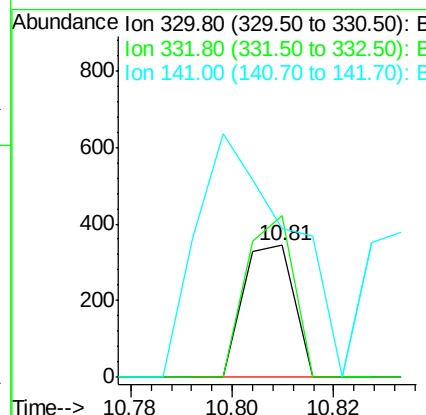
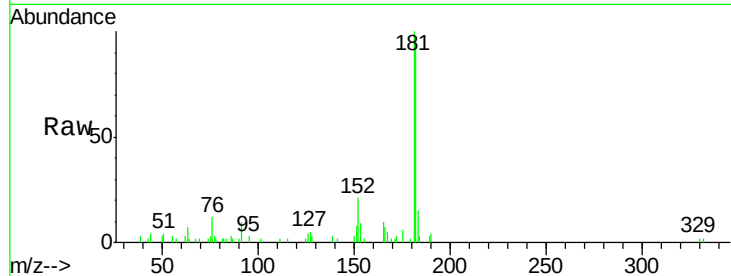
#41
 2,4,6-Tribromophenol
 Concen: 0.131 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	115.6	77.0	115.6#
141	338.4	29.9	44.9#

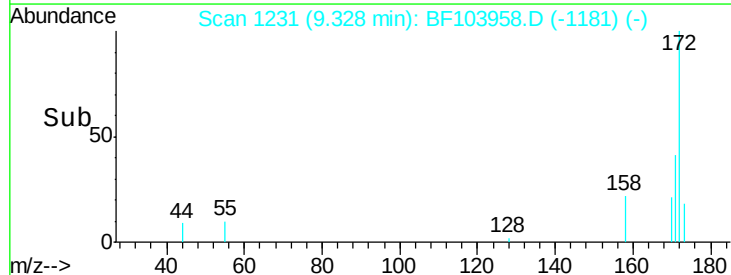
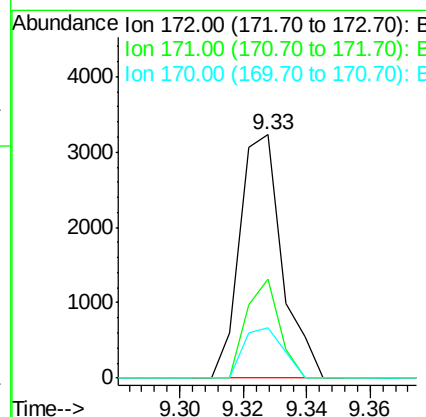
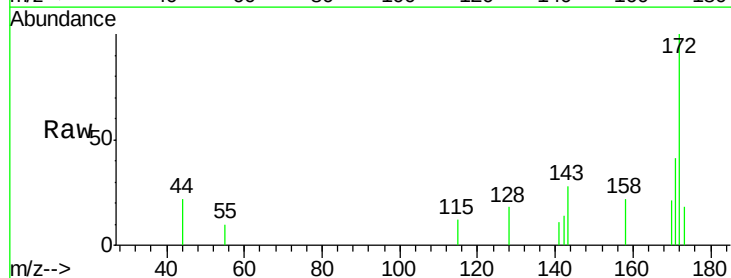
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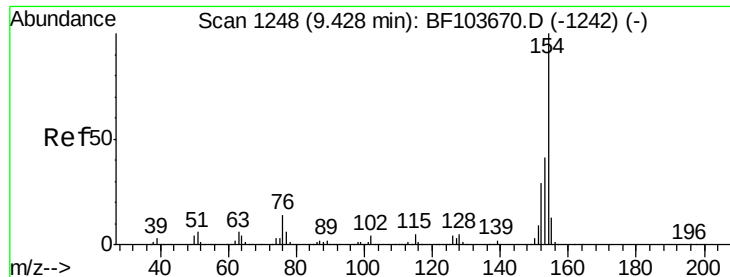
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#44
 2-Fluorobiphenyl
 Concen: 0.227 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.5	29.7	44.5
170	20.6	19.6	29.4





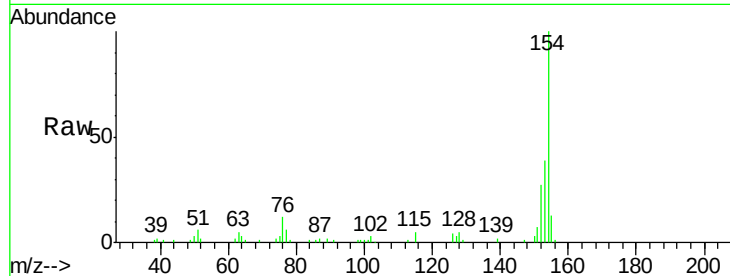
#45
 1,1'-Biphenyl
 Concen: 3.273 ng
 RT: 9.43 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

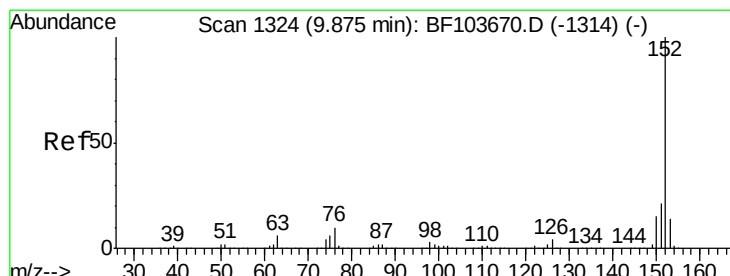
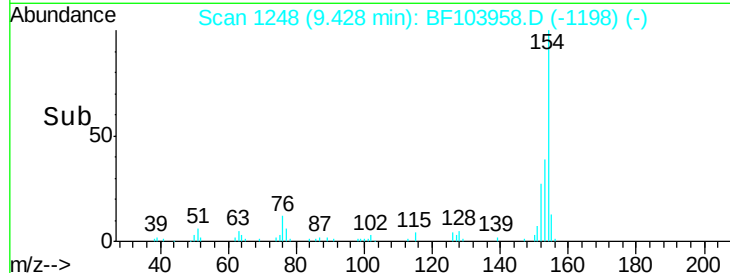
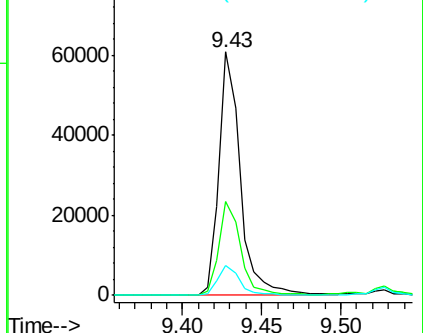
Tot Ion:	154	Resp:	57276
Ion Ratio	Lower	Upper	
154	100		
153	38.6	21.3	61.3
76	12.4	0.0	34.0

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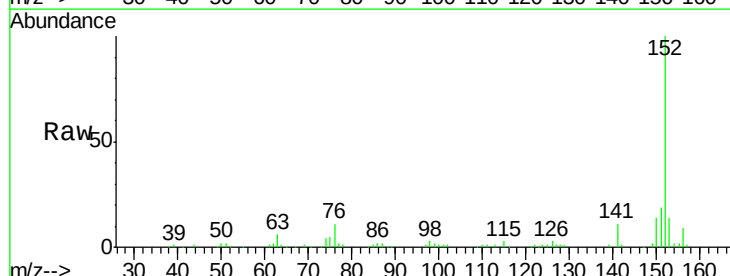


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

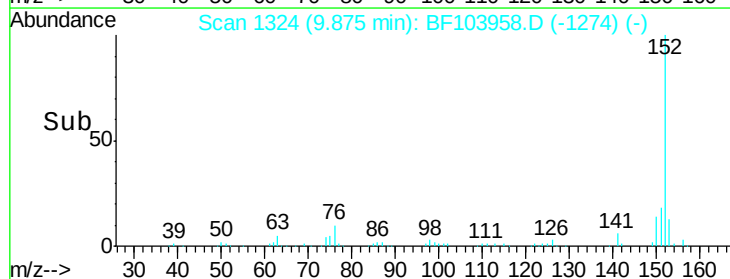
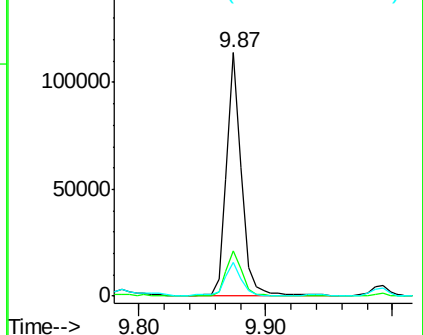


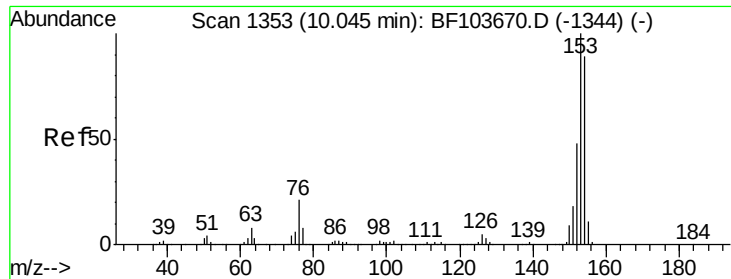
#48
 Acenaphthylene
 Concen: 4.366 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Tgt Ion:	152	Resp:	94088
Ion Ratio	Lower	Upper	
152	100		
151	18.6	16.3	24.5
153	13.8	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: 11.917 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

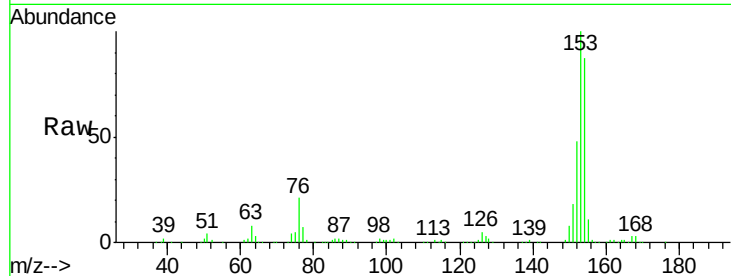
ClientSampleId :

A2_SB43_S_4DL

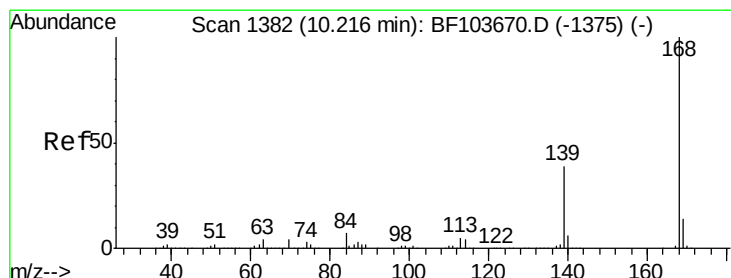
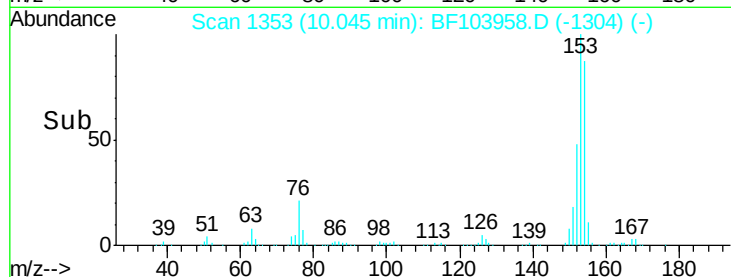
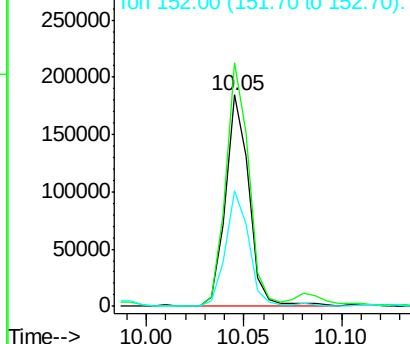
Tot Ion:	154	Resp:	152502
Ion Ratio	Lower	Upper	
154	100		
153	115.4	91.2	136.8
152	55.1	43.8	65.8

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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: 9.367 ng

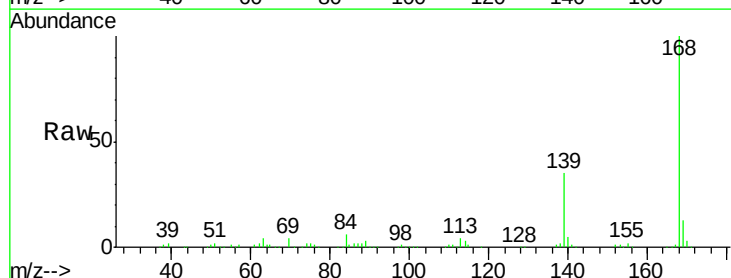
RT: 10.22 min Scan# 1383

Delta R.T. -0.01 min

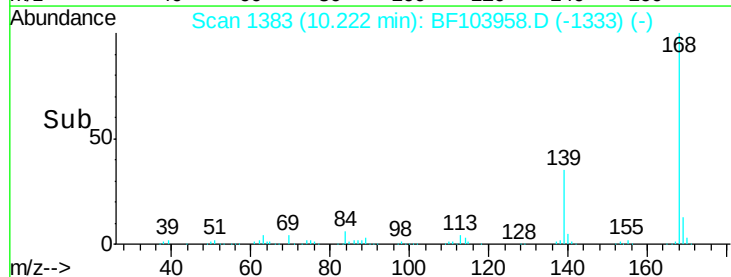
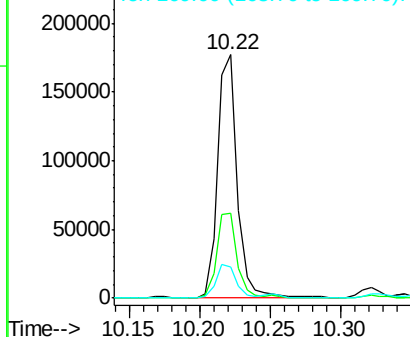
Lab File: BF103958.D

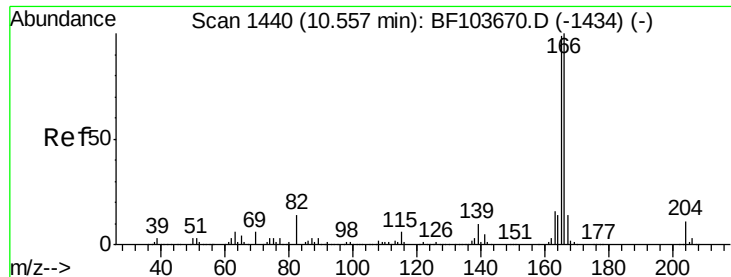
Acq: 27 Mar 2018 6:49

Tgt Ion:	168	Resp:	171195
Ion Ratio	Lower	Upper	
168	100		
139	35.1	30.1	45.1
169	12.7	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





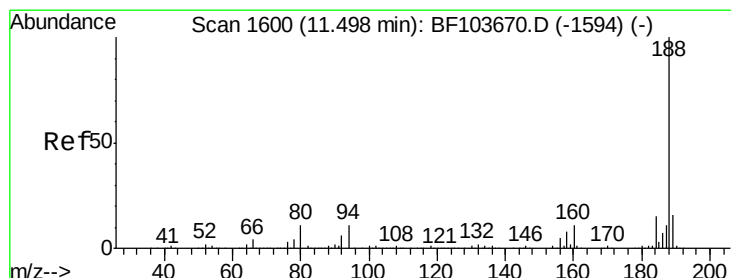
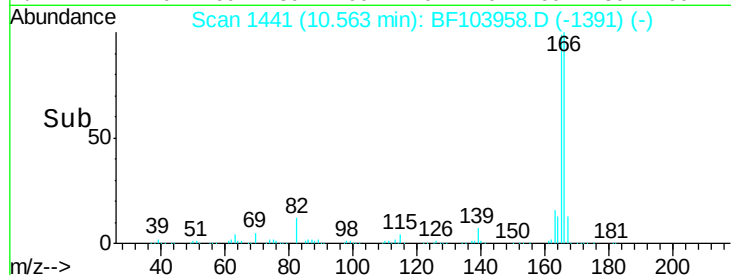
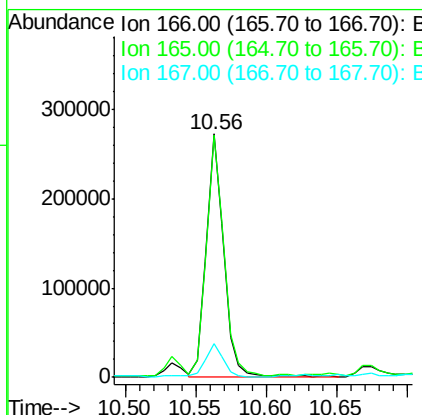
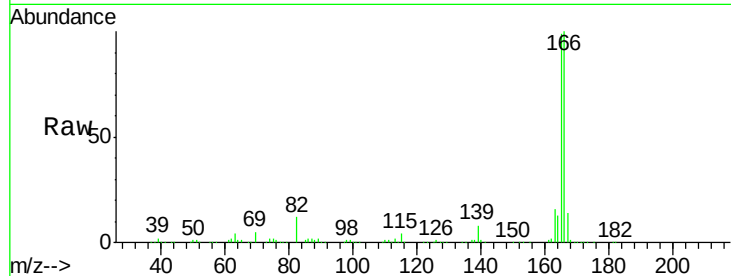
#57
Fluorene
 Concen: 16.724 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.7	10.6	16.0

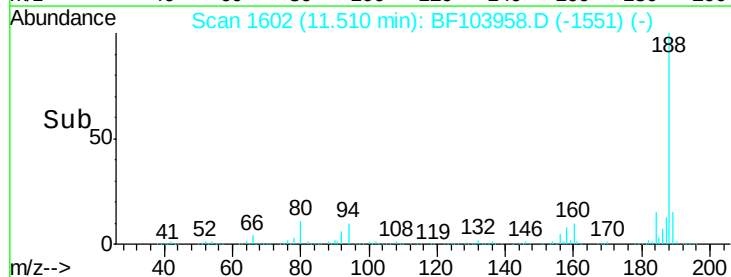
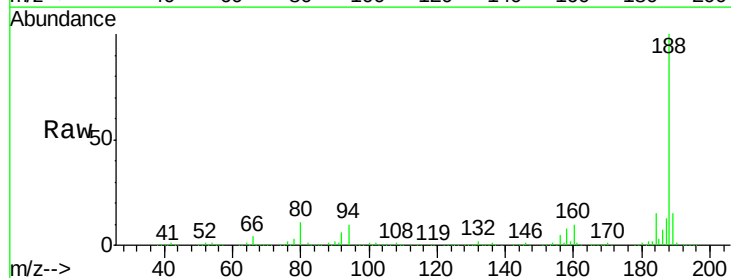
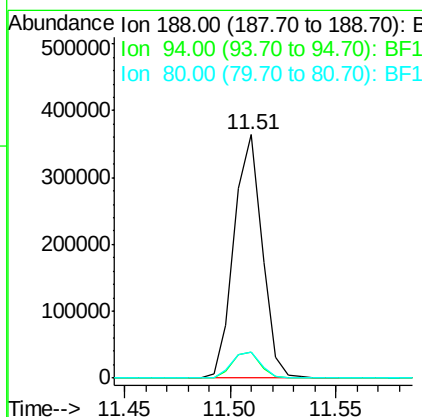
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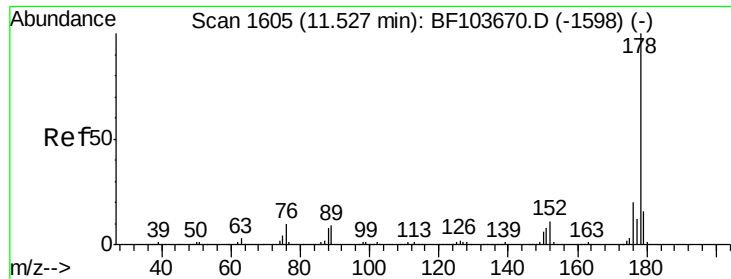
Sohil
 3/27/2018 2:16:12 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. -0.00 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.5	12.7
80	10.8	9.2	13.8





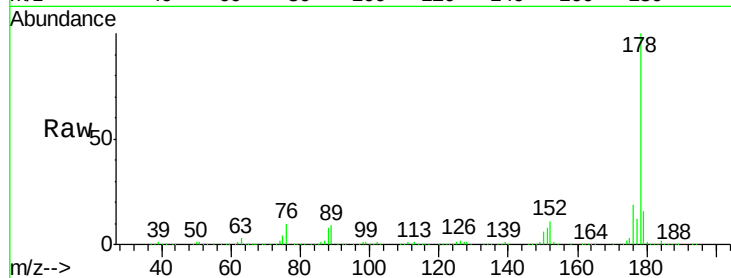
#70
Phenanthrene
Concen: 49.728 ng
RT: 11.53 min Scan# 1606
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

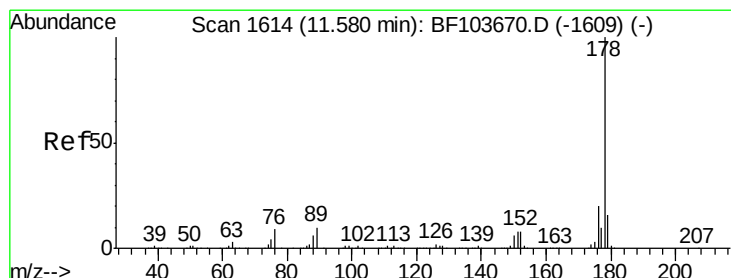
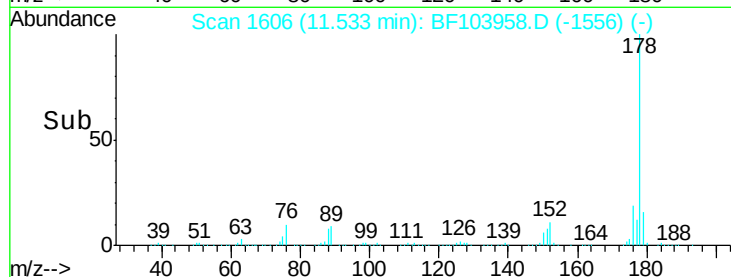
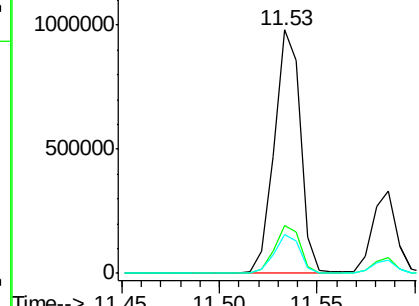
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.8	13.0	19.6

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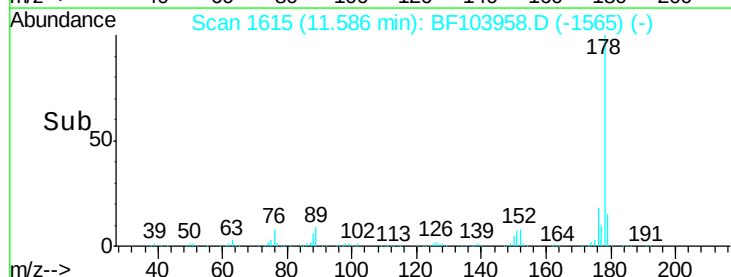
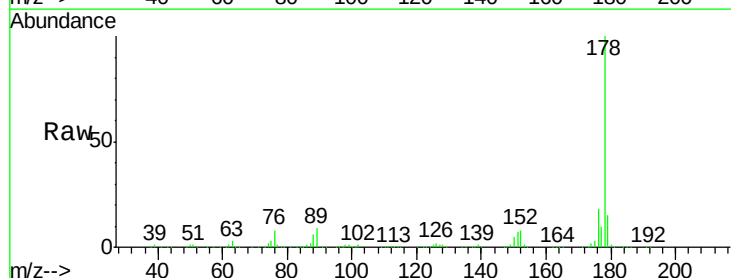
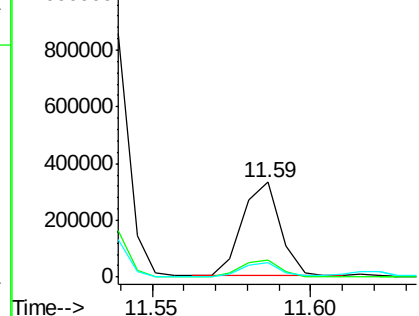
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

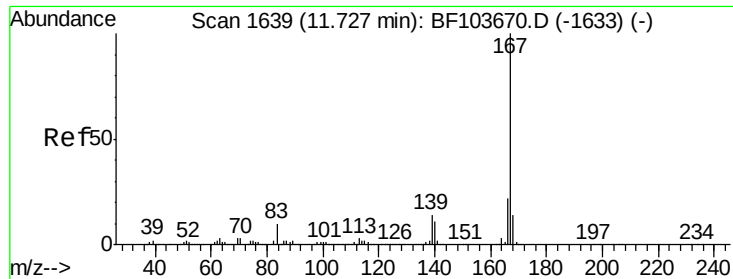


#71
Anthracene
Concen: 14.904 ng
RT: 11.59 min Scan# 1615
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.4	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: 4.555 ng

RT: 11.74 min Scan# 1641

Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

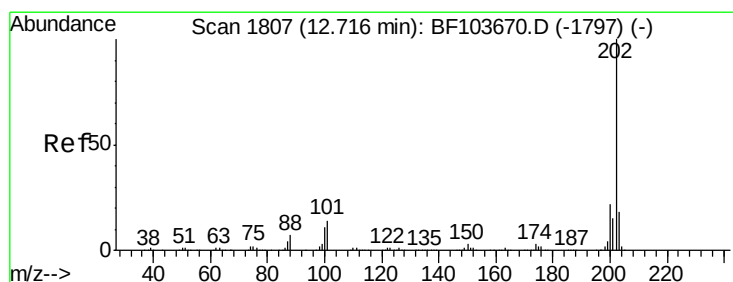
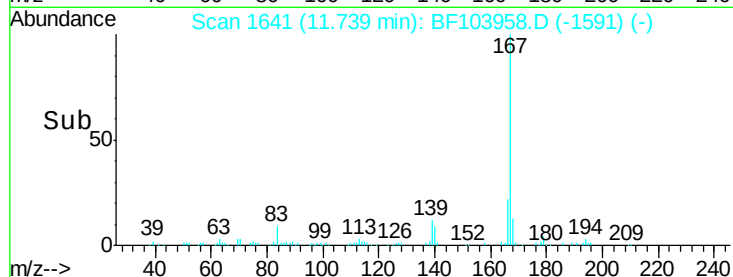
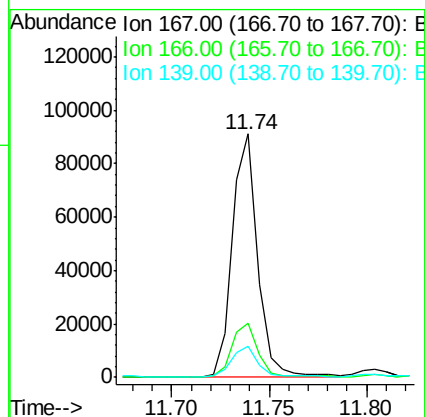
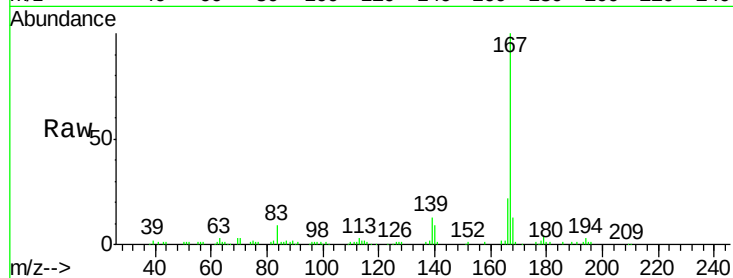
ClientSampleId :

A2_SB43_S_4DL

Tot Ion:	167	Resp:	82114
Ion Ratio	Lower	Upper	
167	100		
166	22.4	17.6	26.4
139	12.6	10.9	16.3

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#74

Fluoranthene

Concen: 33.291 ng

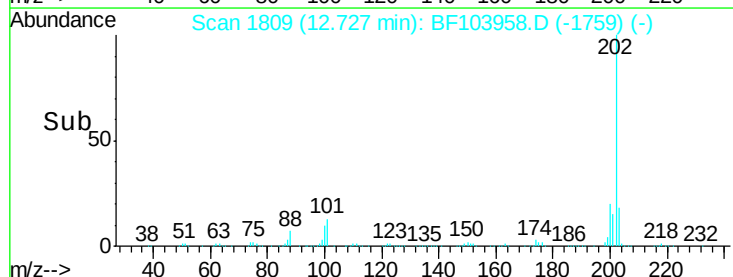
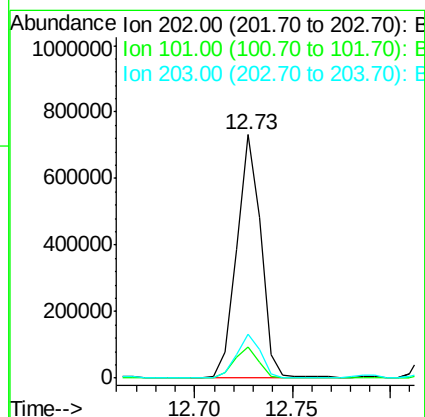
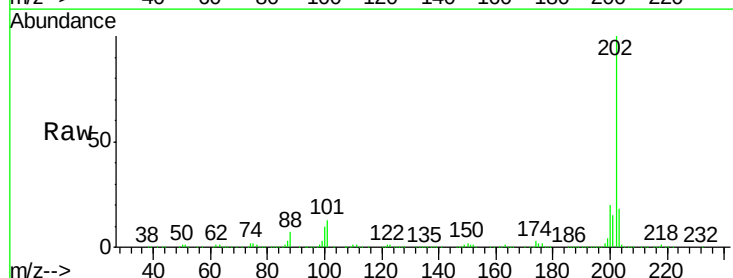
RT: 12.73 min Scan# 1809

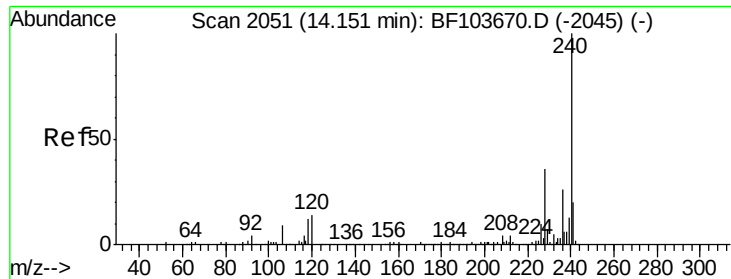
Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Tgt Ion:	202	Resp:	626287
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

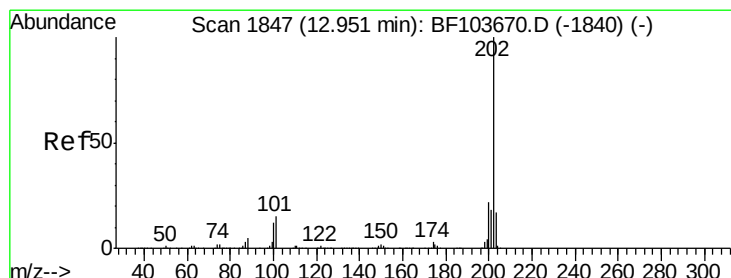
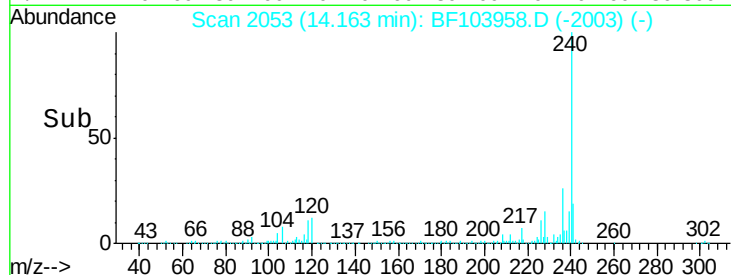
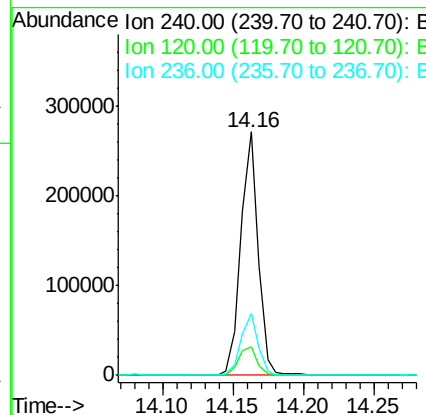
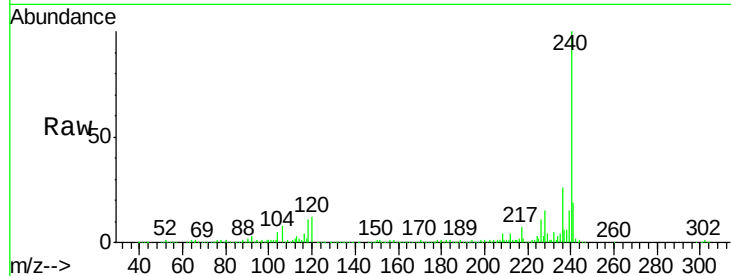
ClientSampleId :

A2_SB43_S_4DL

Tot Ion:	240	Resp:	232444
Ion Ratio	Lower	Upper	
240	100		
120	11.9	9.5	14.3
236	25.6	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 32.619 ng

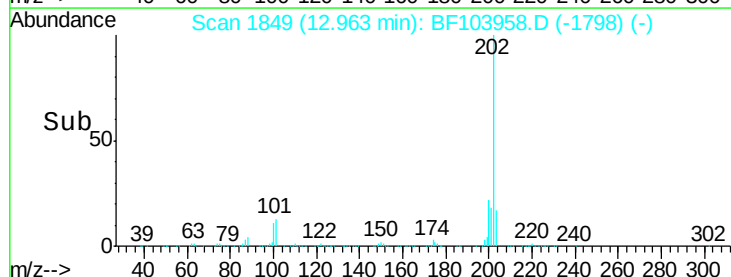
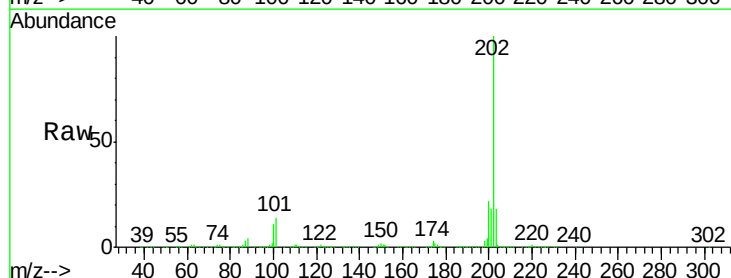
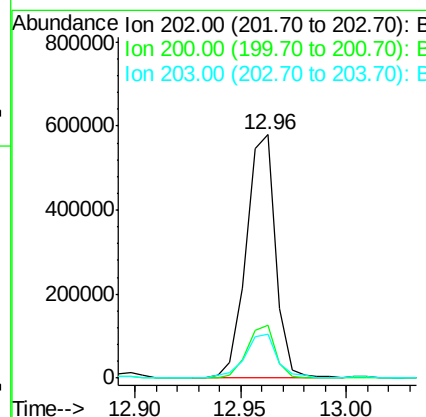
RT: 12.96 min Scan# 1849

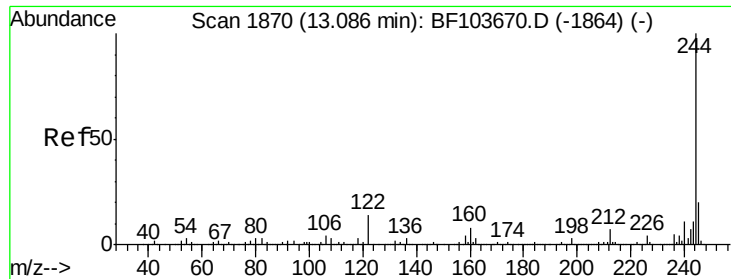
Delta R.T. -0.00 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Tgt Ion:	202	Resp:	556815
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	18.0	14.3	21.5





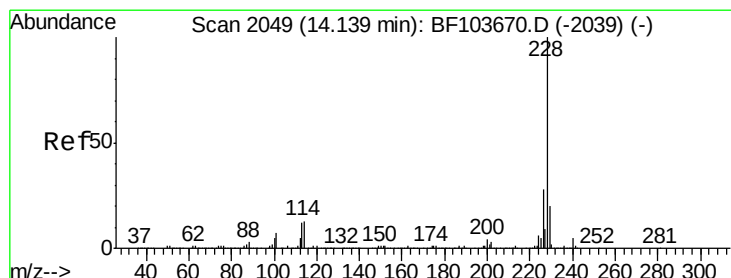
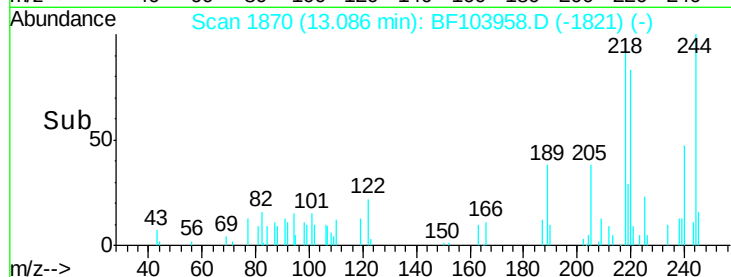
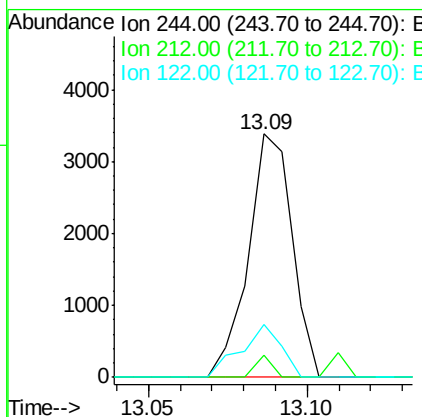
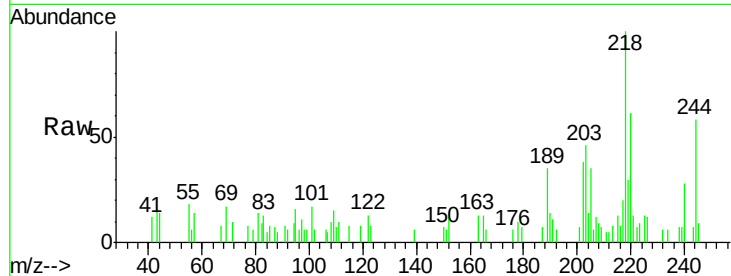
#78
 Terphenyl-d14
 Concen: 0.325 ng
 RT: 13.09 min Scan# 1870
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.2	5.4	8.0#
122	21.7	11.0	16.4#

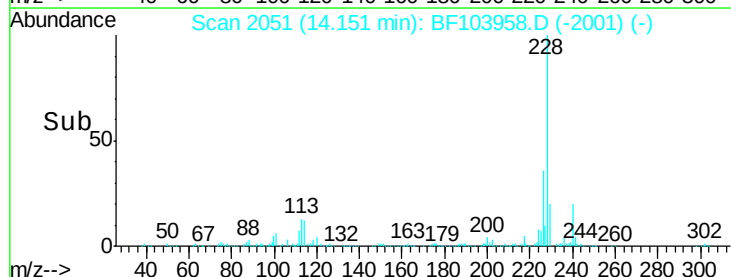
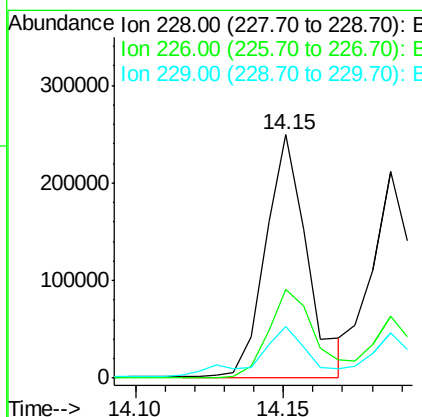
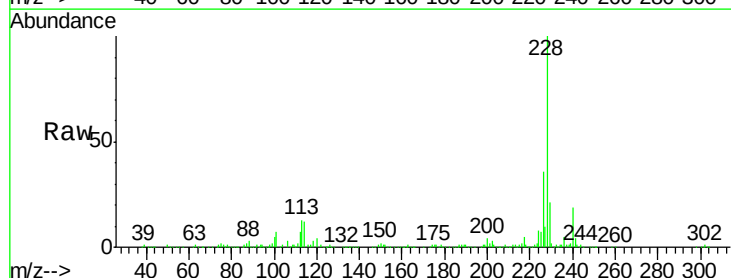
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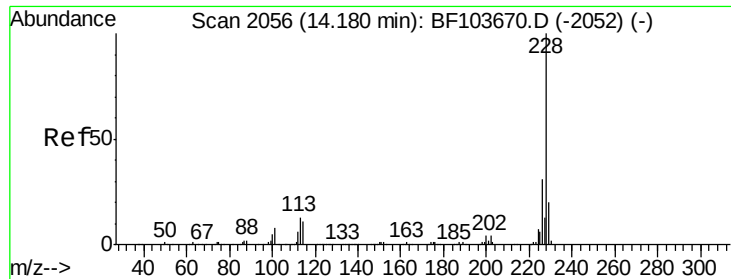
Sohil
 3/27/2018 2:16:12 PM



#80
 Benzo(a)anthracene
 Concen: 16.753 ng m
 RT: 14.15 min Scan# 2051
 Delta R.T. -0.01 min
 Lab File: BF103958.D
 Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.4	22.6	33.8#
229	21.4	15.8	23.6





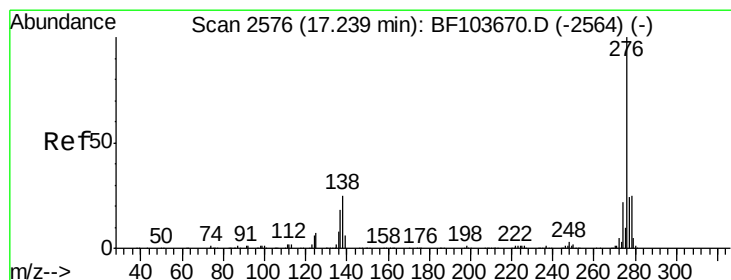
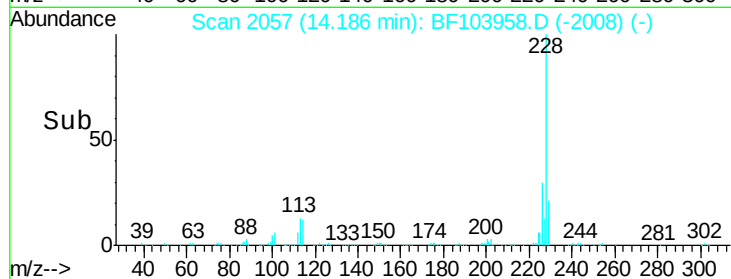
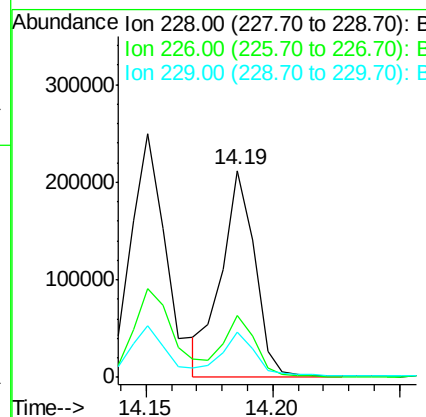
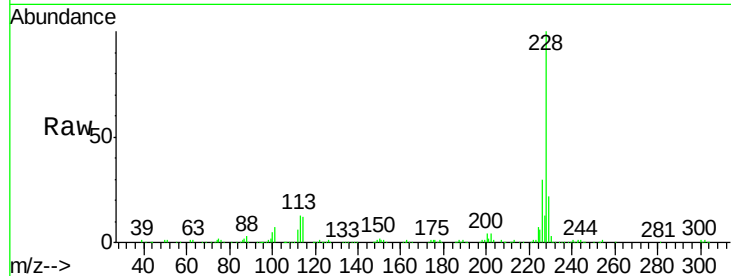
#82
Chrysene
Concen: 13.874 ng
RT: 14.19 min Scan# 2057
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	21.8	16.2	24.4

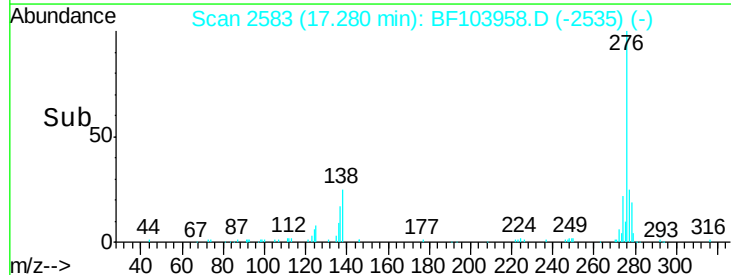
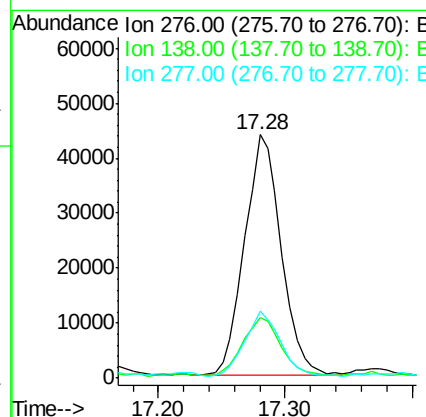
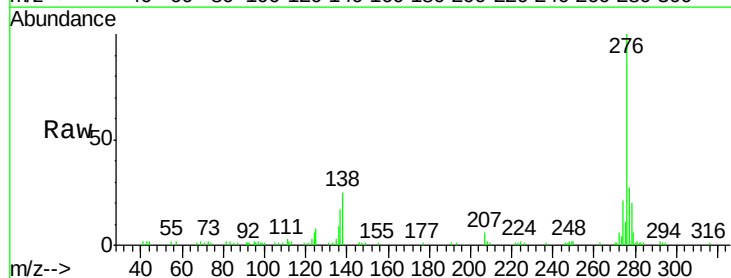
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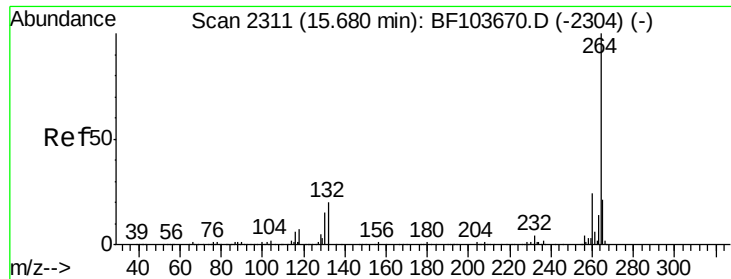
Sohil
3/27/2018 2:16:12 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.110 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.2	25.0	37.6
277	26.0	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.70 min Scan# 2315

Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

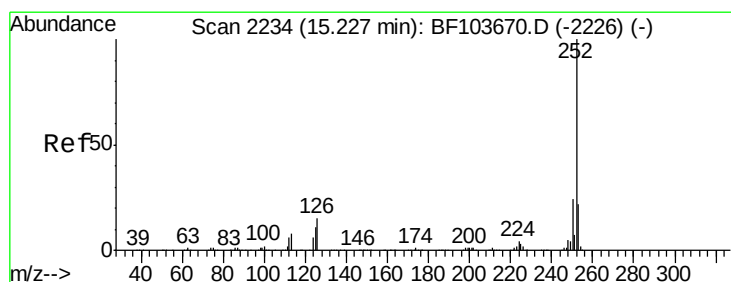
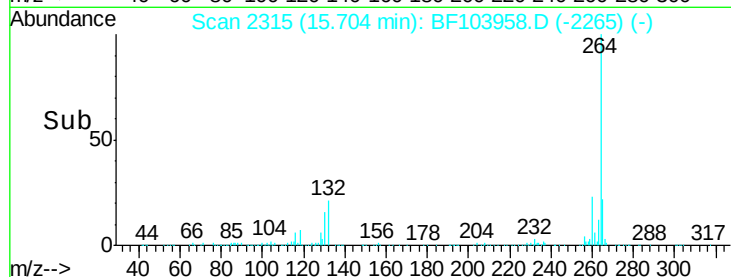
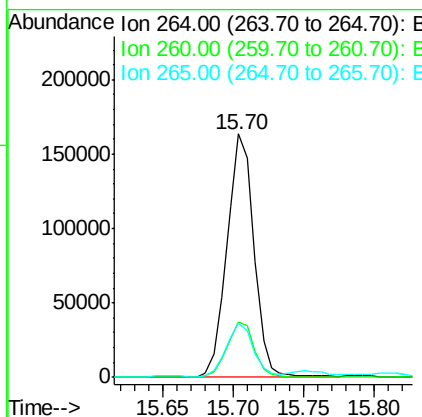
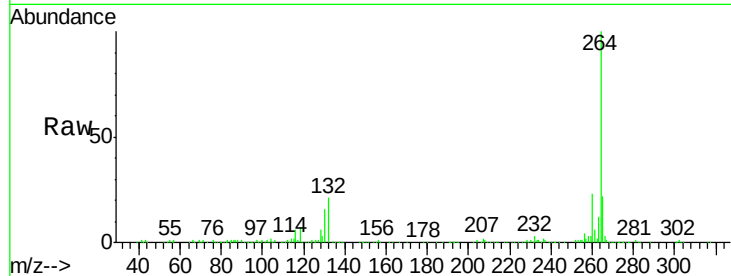
ClientSampleId :

A2_SB43_S_4DL

Tot Ion:	264	Resp:	218585
Ion Ratio		Lower	Upper
264	100		
260	22.9	19.2	28.8
265	22.4	17.5	26.3

Manual Integrations
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3/27/2018 2:16:12 PM



#87

Benzo(b)fluoranthene

Concen: 15.412 ng m

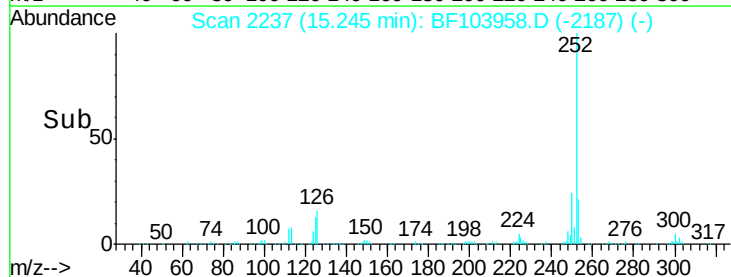
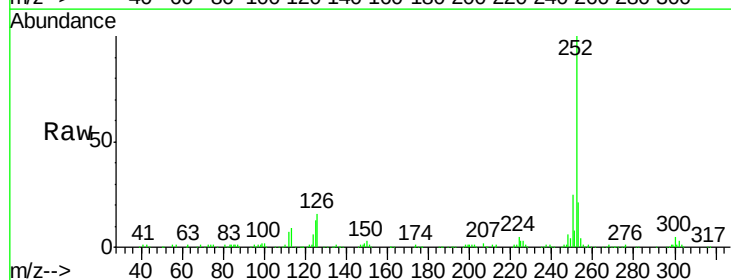
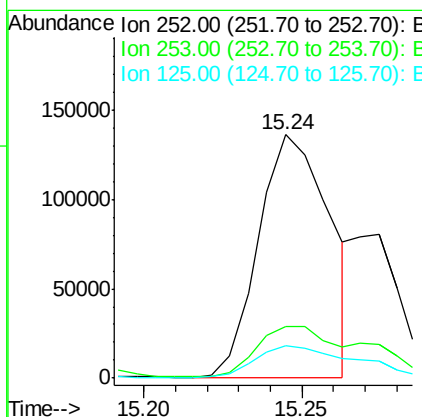
RT: 15.24 min Scan# 2237

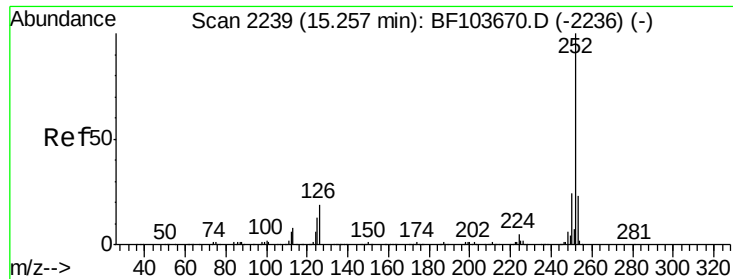
Delta R.T. -0.01 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Tgt Ion:	252	Resp:	212840
Ion Ratio		Lower	Upper
252	100		
253	21.4	17.0	25.6
125	13.4	9.0	13.6





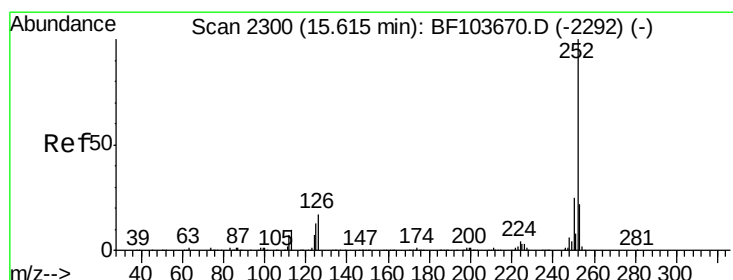
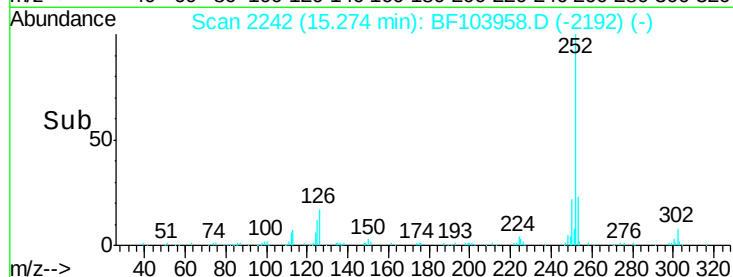
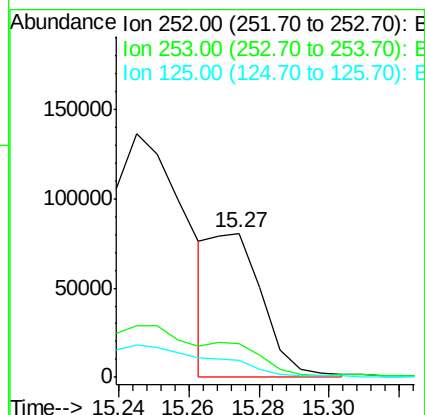
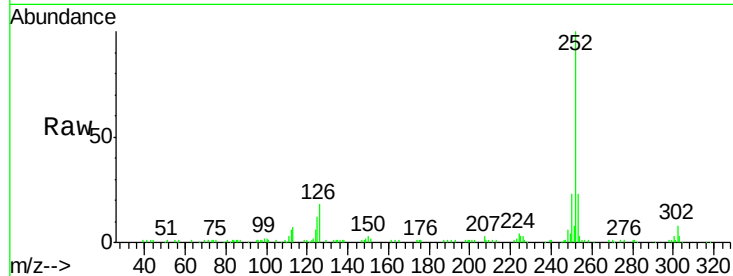
#88
Benzo(k)fluoranthene
Concen: 6.241 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Instrument :
BNA_F
ClientSampleId :
A2_SB43_S_4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.3	10.2	15.2

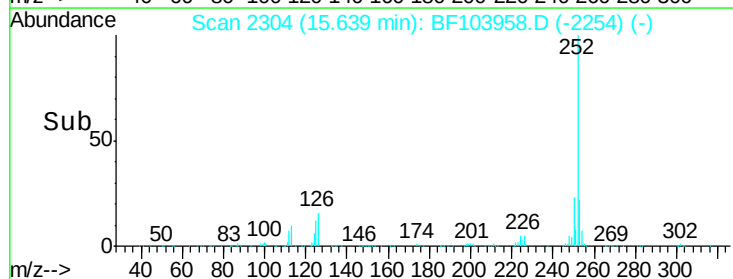
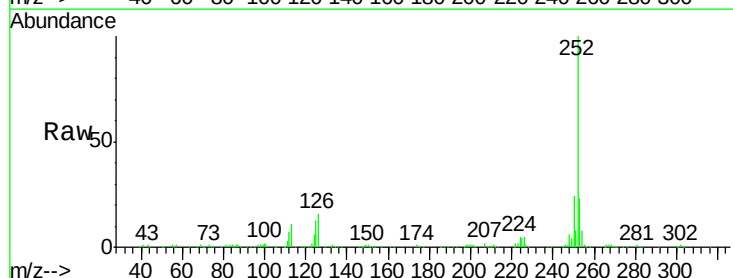
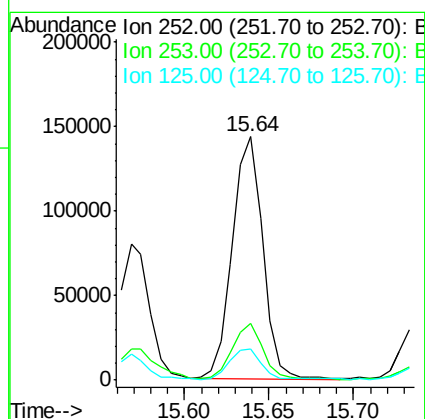
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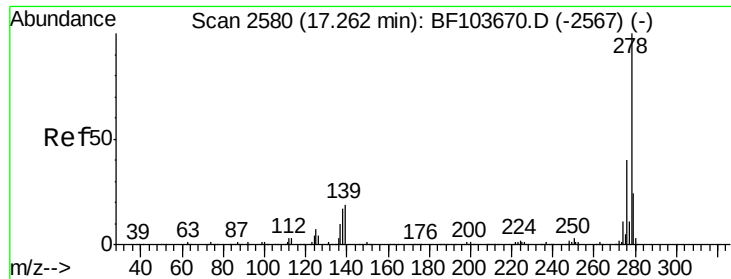
Sohil
3/27/2018 2:16:12 PM



#89
Benzo(a)pyrene
Concen: 14.393 ng
RT: 15.64 min Scan# 2304
Delta R.T. -0.01 min
Lab File: BF103958.D
Acq: 27 Mar 2018 6:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	12.8	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.297 ng

RT: 17.29 min Scan# 2585

Delta R.T. -0.02 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Instrument :

BNA_F

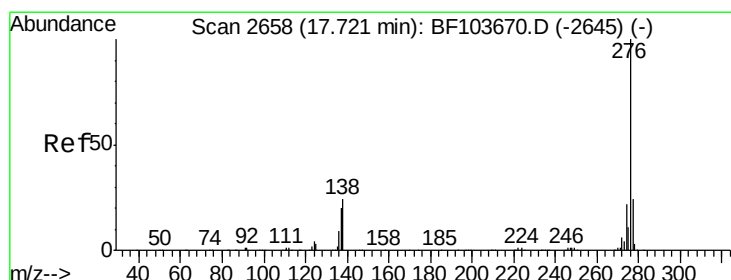
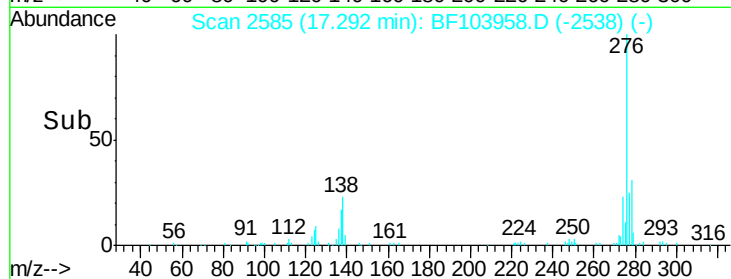
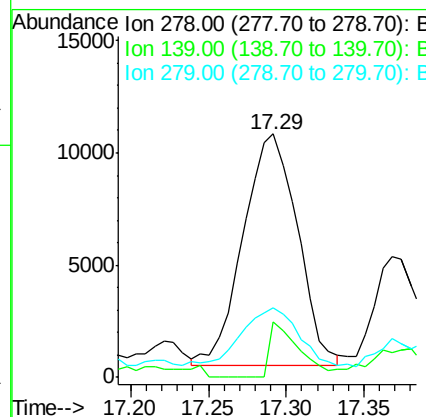
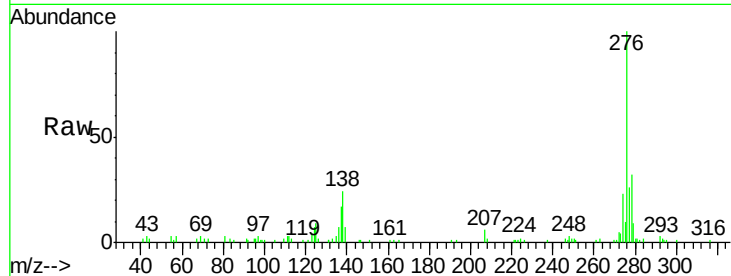
ClientSampleId :

A2_SB43_S_4DL

Tot Ion:	278	Resp:	24915
Ion Ratio	Lower	Upper	
278	100		
139	22.5	15.9	23.9
279	28.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/27/2018 2:16:12 PM



#91

Benzo(g,h,i)perylene

Concen: 7.907 ng

RT: 17.76 min Scan# 2665

Delta R.T. -0.02 min

Lab File: BF103958.D

Acq: 27 Mar 2018 6:49

Tgt Ion:	276	Resp:	83427
Ion Ratio	Lower	Upper	
276	100		
277	25.3	17.9	26.9
138	26.8	21.8	32.8

