

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101337.D
 Acq On : 12 Dec 2017 18:38
 Operator : SJ/JU
 Sample : I6822-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Manual Integrations
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Sohil
 12/13/2017 12:07:42 PM

Quant Time: Dec 13 03:05:33 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	51163	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	191346	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	78442	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	133034	20.00	ng	0.00
75) Chrysene-d12	14.01	240	112415	20.00	ng	0.00
86) Perylene-d12	15.49	264	87556	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	351972	113.68	ng	0.00
7) Phenol-d6	6.47	99	422980	112.52	ng	0.00
23) Nitrobenzene-d5	7.39	82	251470	78.40	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	89319	94.79	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	398484	69.50	ng	0.00
78) Terphenyl-d14	12.94	244	322687	62.79	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.47	94	13568	3.246	ng	79
31) Naphthalene	8.13	128	29768	3.157	ng	100
49) Dimethylphthalate	9.57	163	77884	12.311	ng	# 98
51) Acenaphthene	9.89	154	15253	3.037	ng	99
57) Fluorene	10.41	166	16840	2.862	ng	97
70) Phenanthrene	11.38	178	221548	30.241	ng	98
71) Anthracene	11.43	178	64891	8.752	ng	98
72) Carbazole	11.59	167	21951	3.240	ng	97
74) Fluoranthene	12.57	202	359671	44.290	ng	96
77) Pyrene	12.81	202	336405	43.368	ng	100
80) Benzo(a)anthracene	14.00	228	198412	27.954	ng	98
82) Chrysene	14.03	228	164310	24.927	ng	96
85) Indeno(1,2,3-cd)pyrene	16.98	276	91126	15.550	ng	# 88
87) Benzo(b)fluoranthene	15.06	252	202087m	38.534	ng	
88) Benzo(k)fluoranthene	15.08	252	60817m	11.771	ng	
89) Benzo(a)pyrene	15.43	252	153833	32.265	ng	97
90) Dibenzo(a,h)anthracene	16.98	278	24729	5.883	ng	# 90
91) Benzo(g,h,i)perylene	17.43	276	87339	22.049	ng	# 89

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

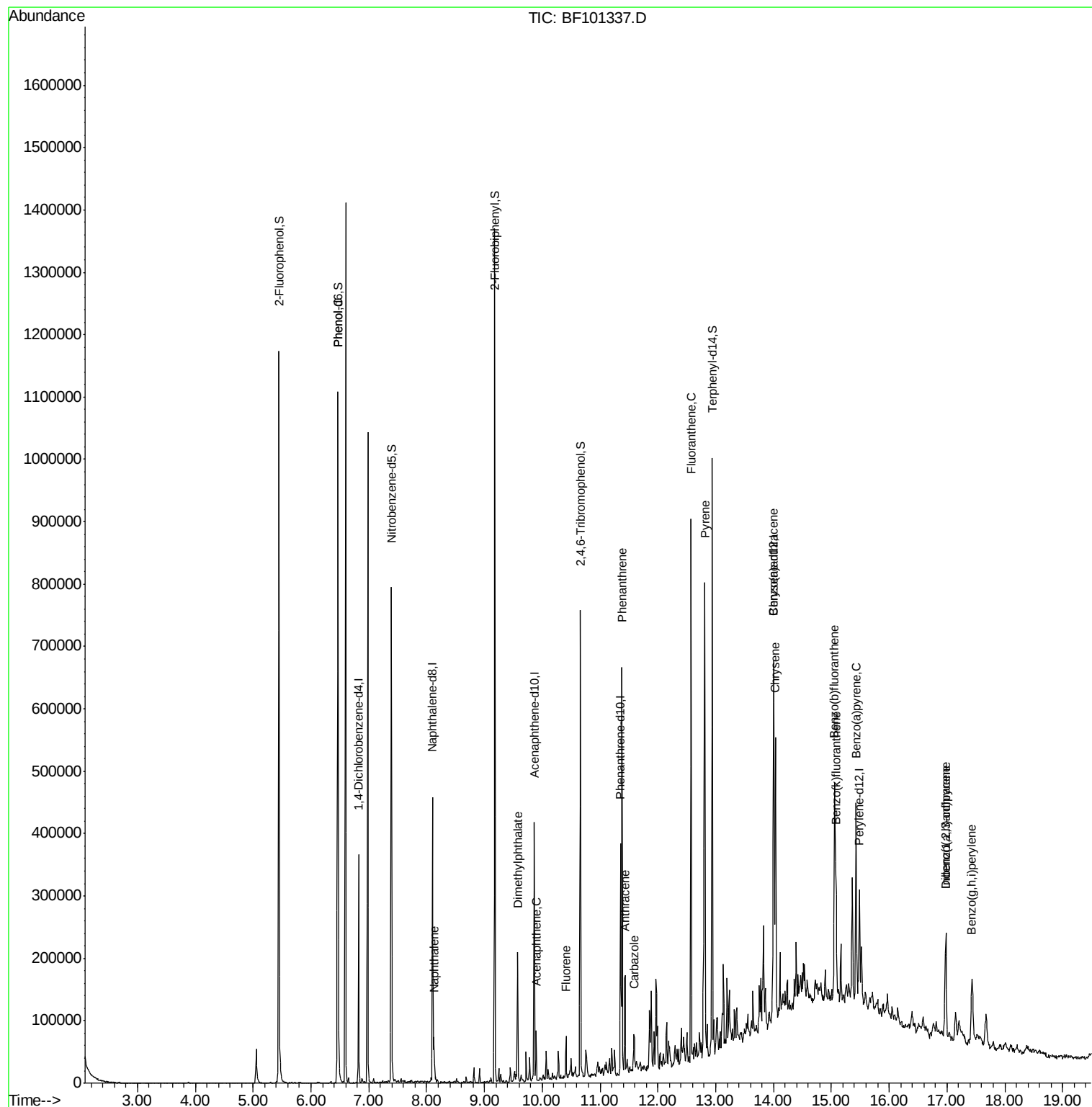
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
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ALS Vial : 12 Sample Multiplier: 1

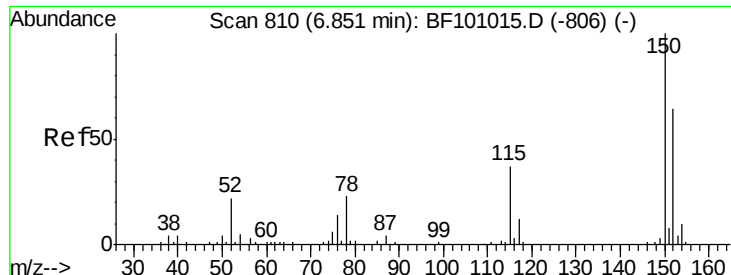
Instrument :
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SB-4(0-2)

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#1

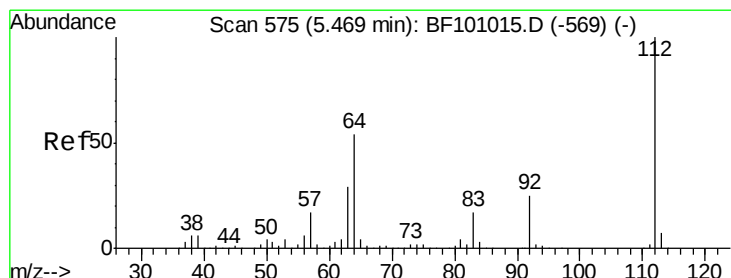
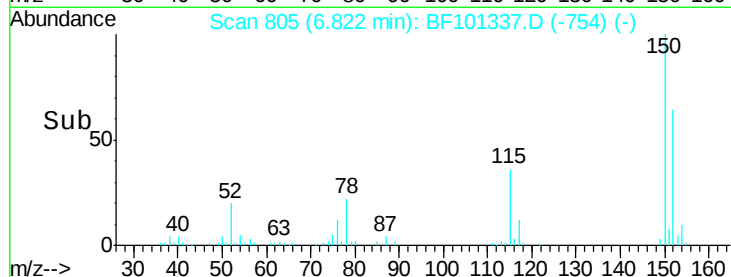
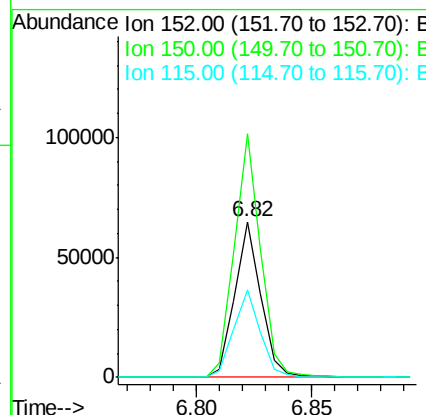
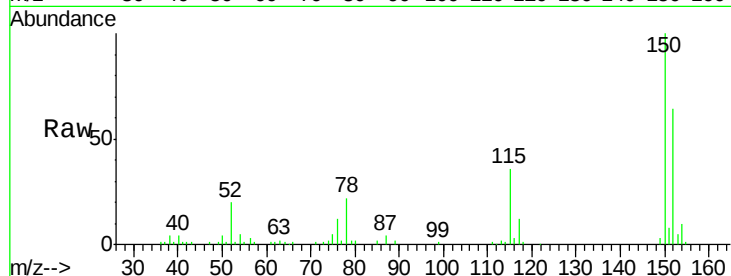
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.6	186.8
115	55.8	50.1	75.1

Manual Integrations
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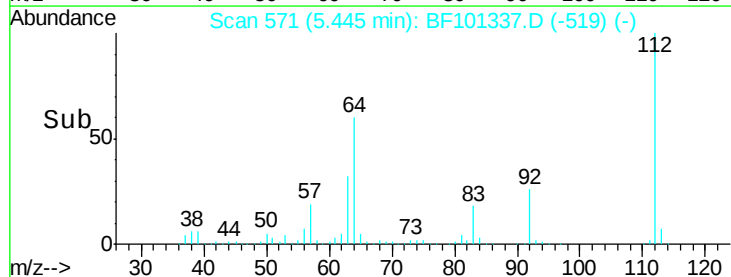
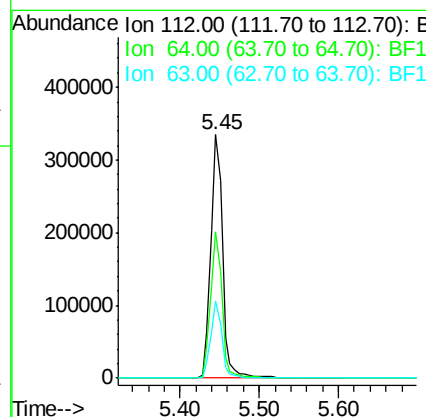
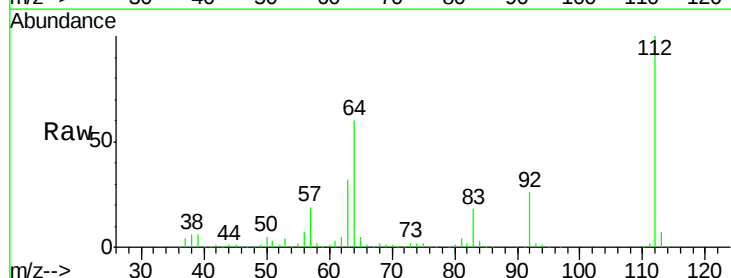
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#5

2-Fluorophenol
Concen: 113.679 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	47.9	71.9
63	31.8	23.7	35.5





#7

Phenol-d6

Concen: 112.522 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

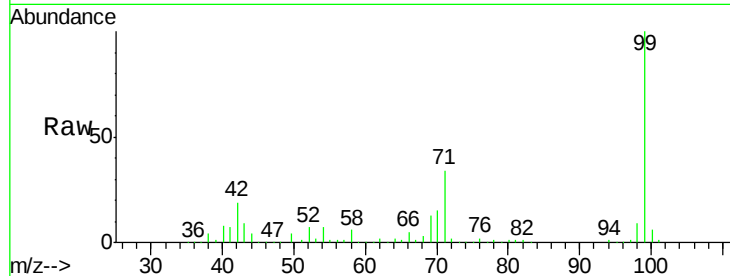
ClientSampled :

SB-4(0-2)

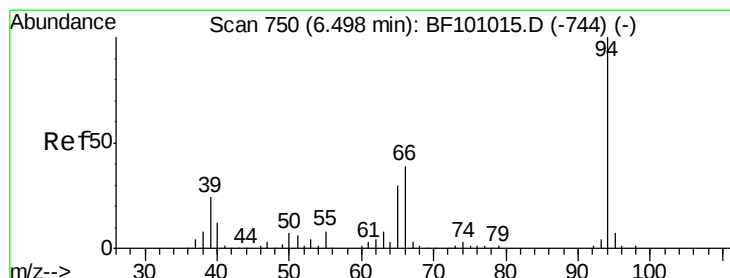
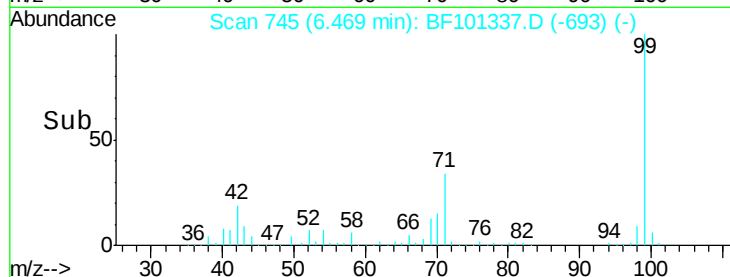
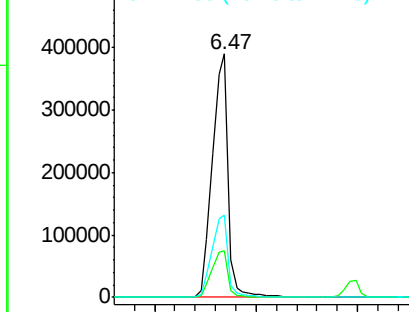
Tot Ion:	99	Resp:	422980
Ion Ratio	Lower	Upper	
99	100		
42	18.9	14.5	21.7
71	33.9	25.4	38.0

Manual Integrations
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.246 ng

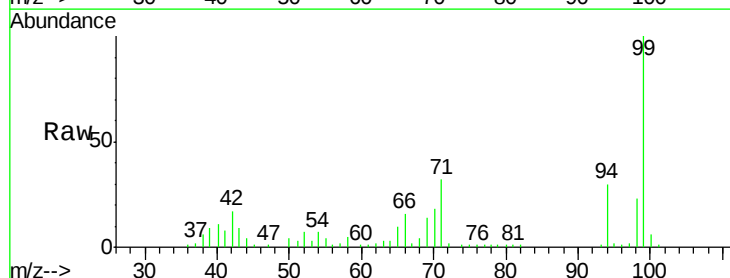
RT: 6.47 min Scan# 746

Delta R.T. 0.00 min

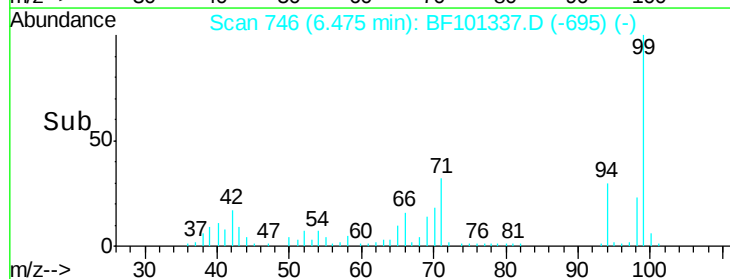
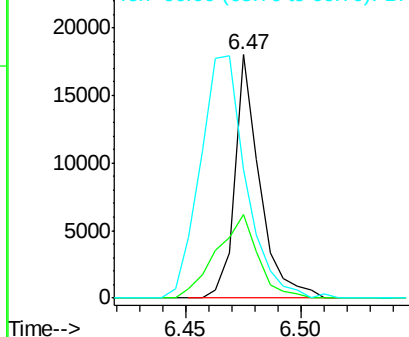
Lab File: BF101337.D

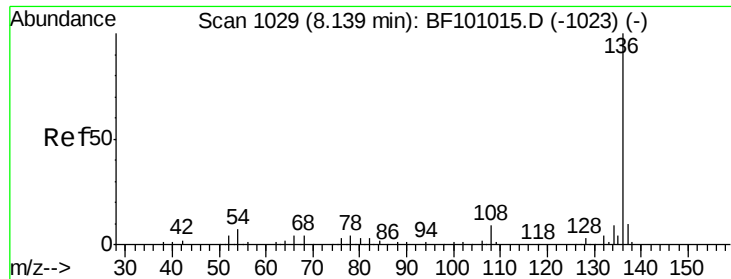
Acq: 12 Dec 2017 18:38

Tgt Ion:	94	Resp:	13568
Ion Ratio	Lower	Upper	
94	100		
65	34.1	7.9	47.9
66	52.5	16.2	56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

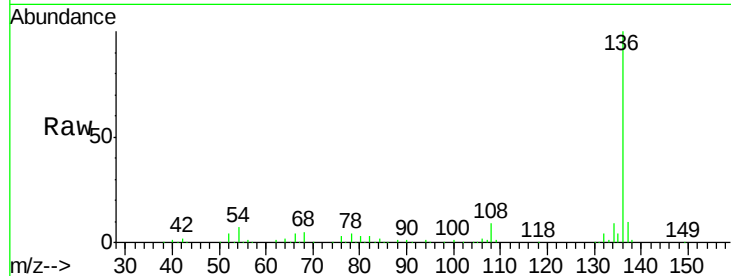
ClientSampled :

SB-4(0-2)

Tot Ion	136	Resp	191346
Ion Ratio	Lower	Upper	
136	100		
137	10.1	8.9	13.3
54	7.2	6.6	9.8
68	4.6	5.0	7.4#

Manual Integrations
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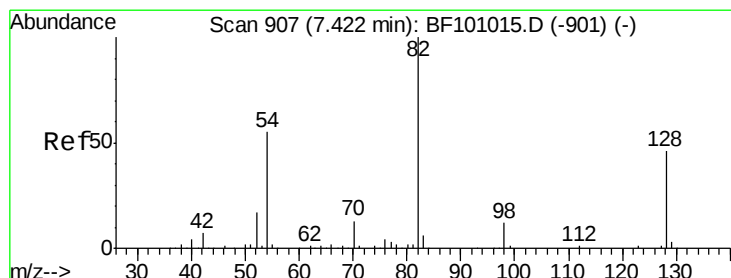
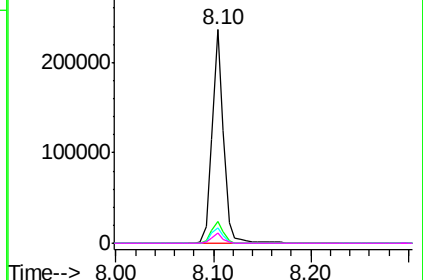
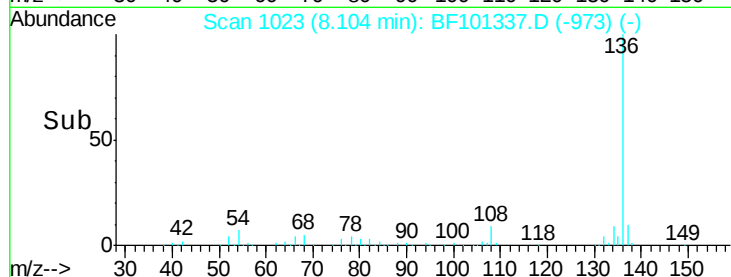


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 78.397 ng

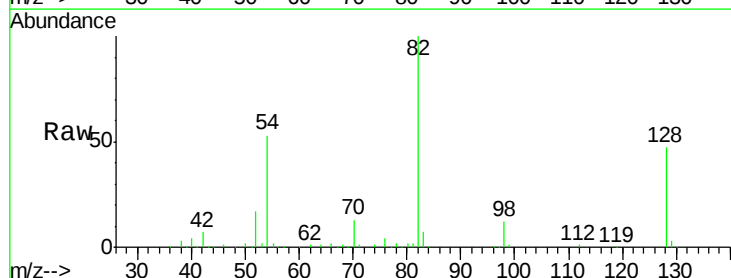
RT: 7.39 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

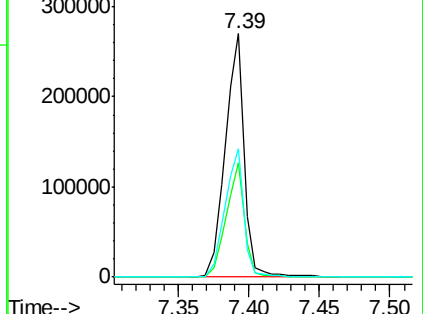
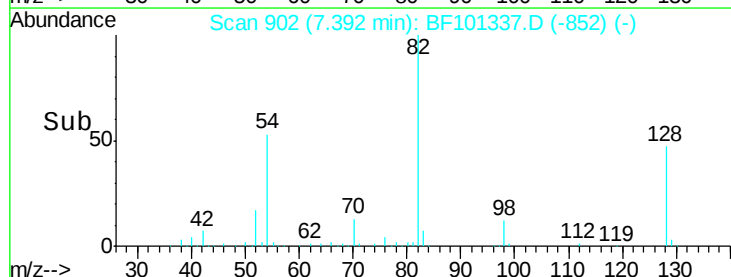
Tgt Ion	82	Resp	251470
Ion Ratio	Lower	Upper	
82	100		
128	46.9	36.1	54.1
54	52.7	41.4	62.2

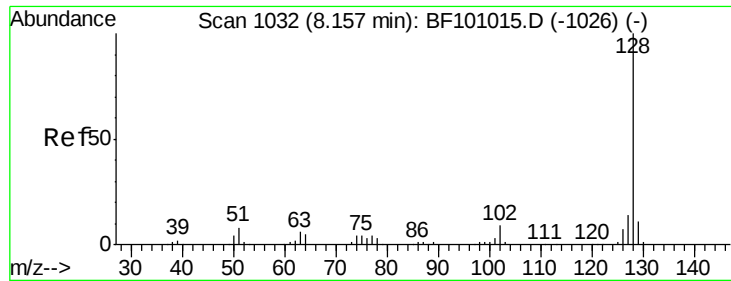


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





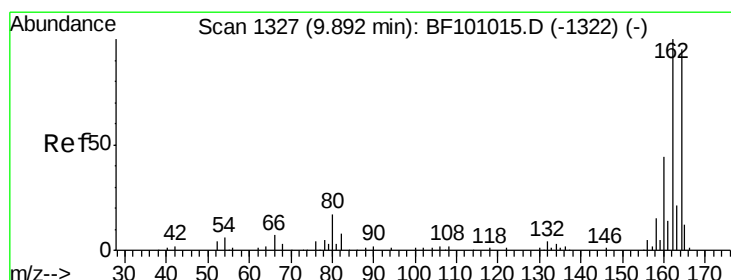
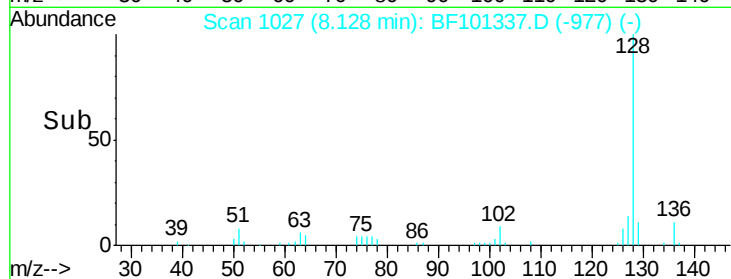
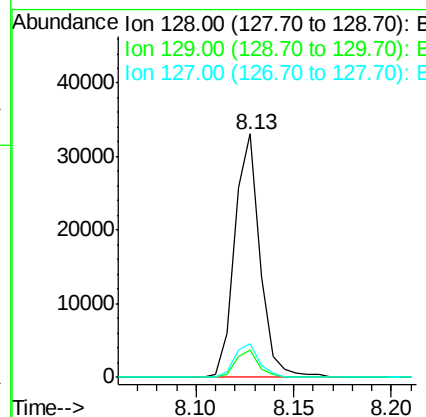
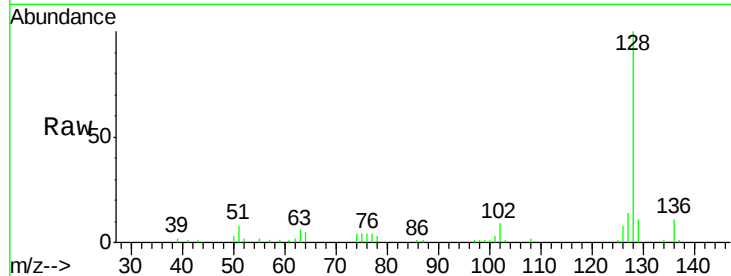
#31
Naphthalene
Concen: 3.157 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.9	10.9	16.3

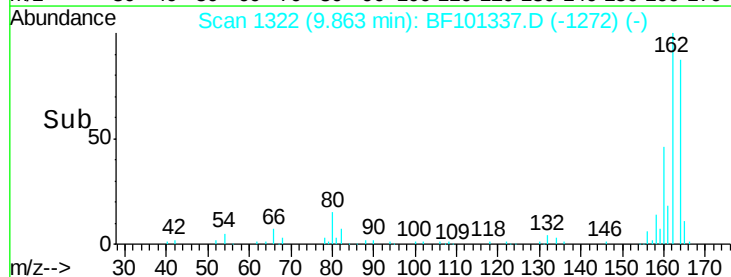
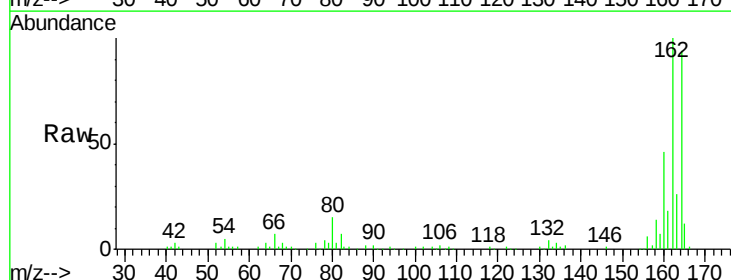
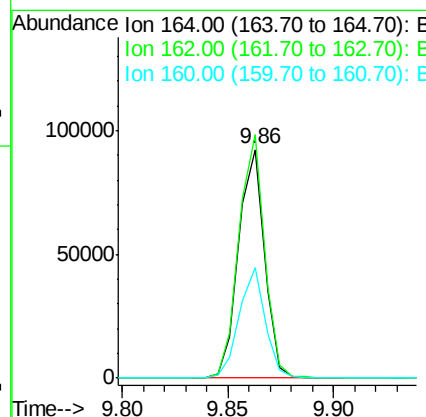
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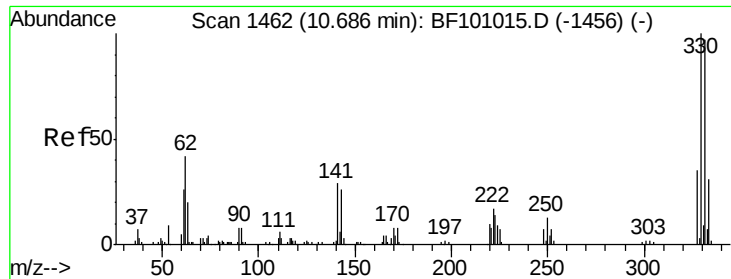
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.1	129.1
160	48.5	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 94.787 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

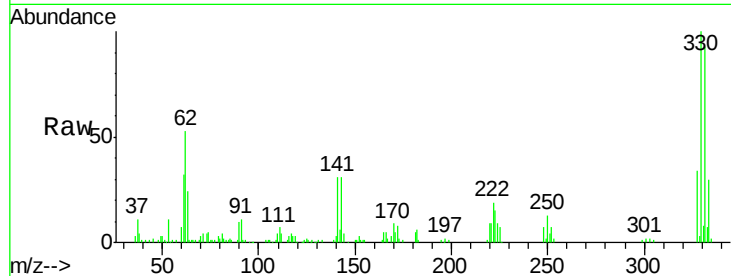
ClientSampleId :

SB-4(0-2)

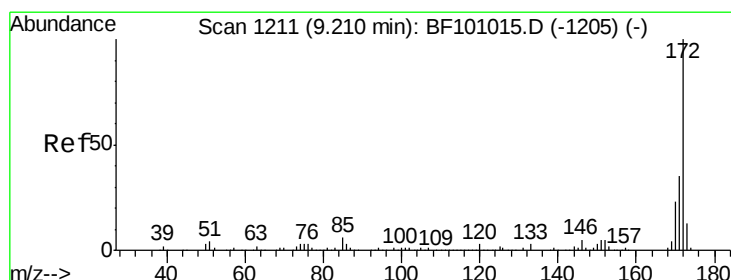
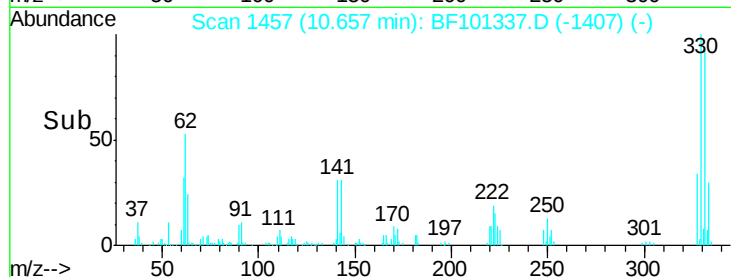
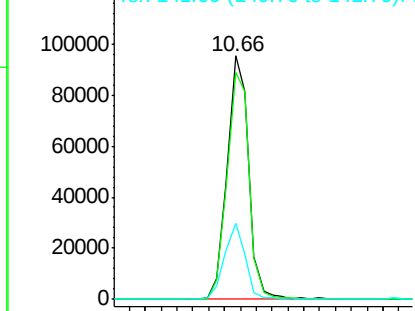
Tot Ion:	330	Resp:	89319
Ion Ratio	Lower	Upper	
330	100		
332	96.1	77.0	115.6
141	30.5	29.9	44.9

Manual Integrations
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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 69.504 ng

RT: 9.18 min Scan# 1206

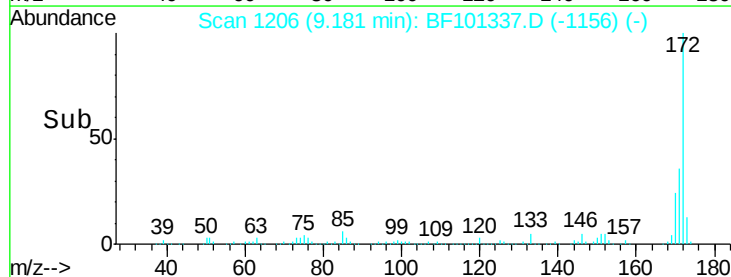
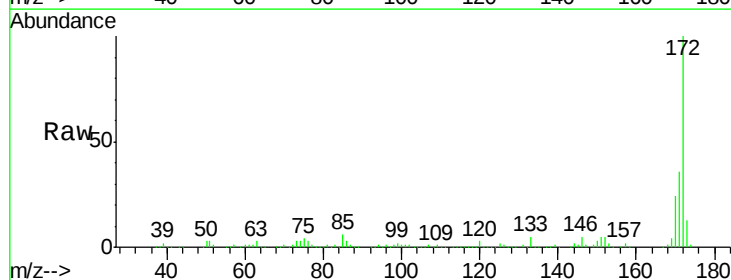
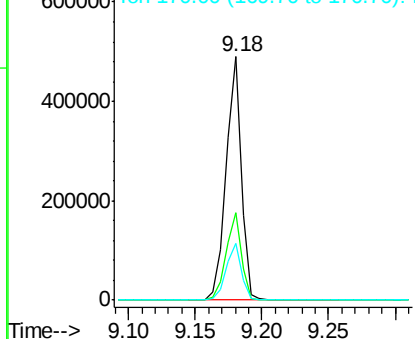
Delta R.T. -0.01 min

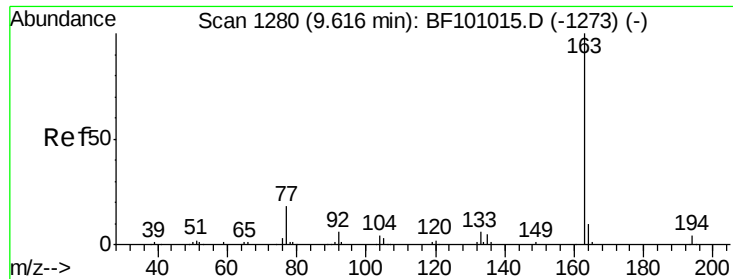
Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Tgt Ion:	172	Resp:	398484
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.7	44.5
170	23.5	19.6	29.4

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





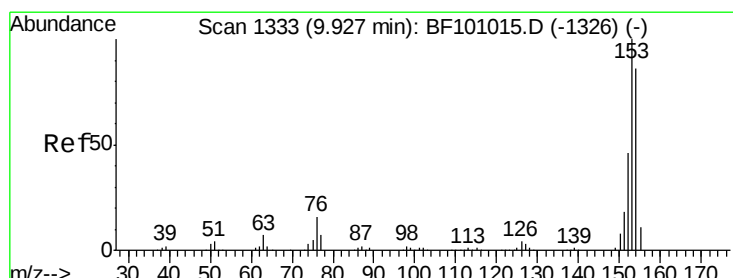
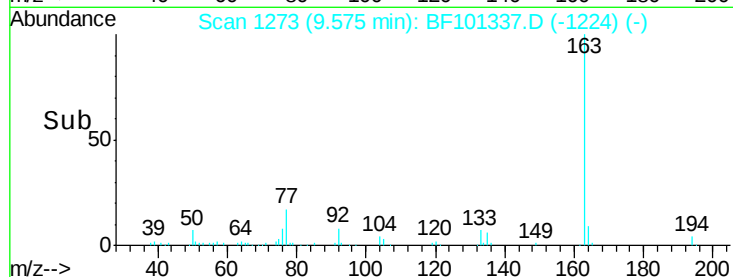
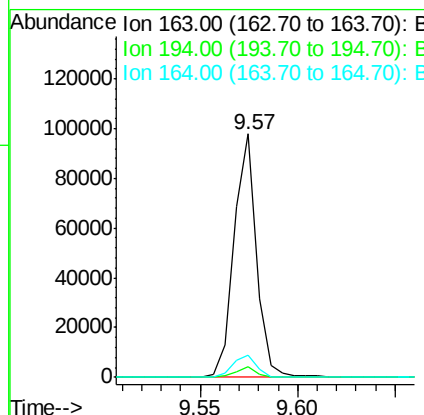
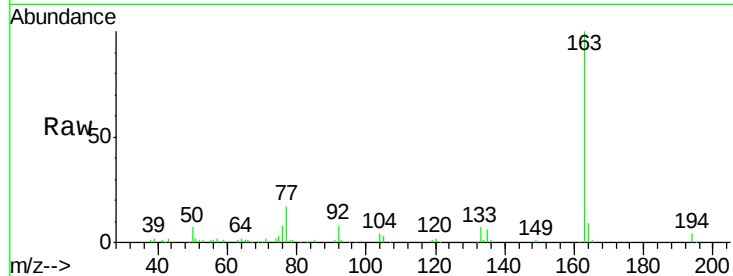
#49
Dimethylphthalate
Concen: 12.311 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.2	2.7	4.1#
164	9.3	8.2	12.2

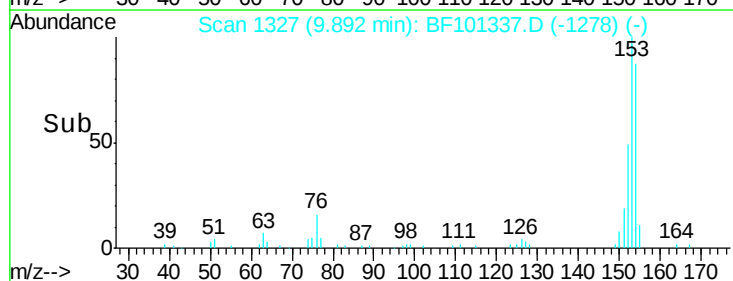
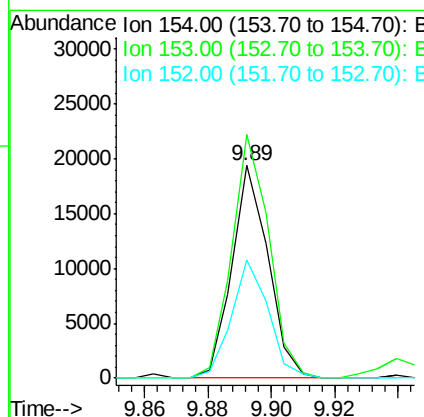
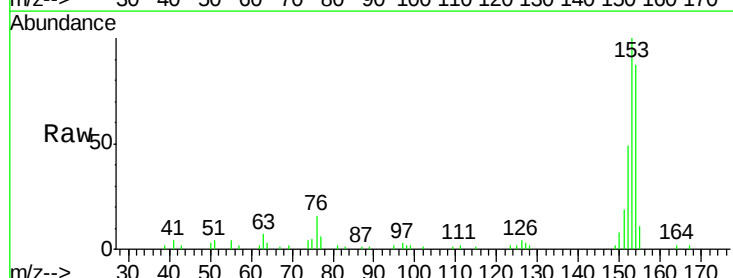
Manual Integrations
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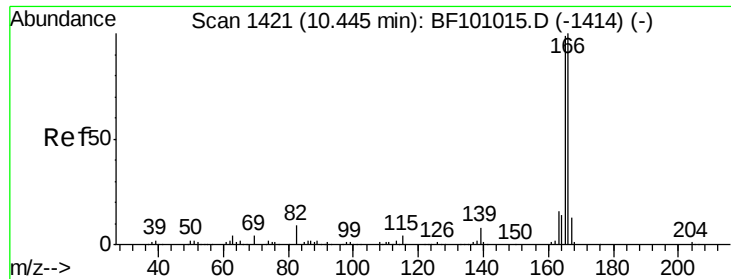
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#51
Acenaphthene
Concen: 3.037 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.6	91.2	136.8
152	55.9	43.8	65.8





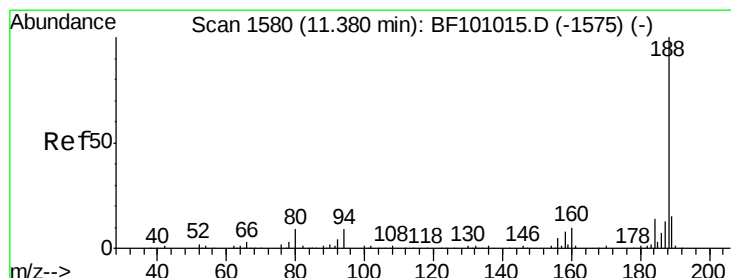
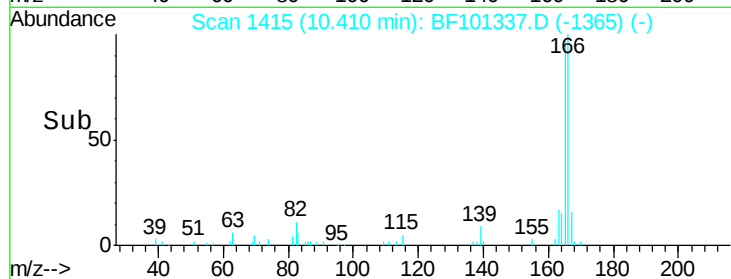
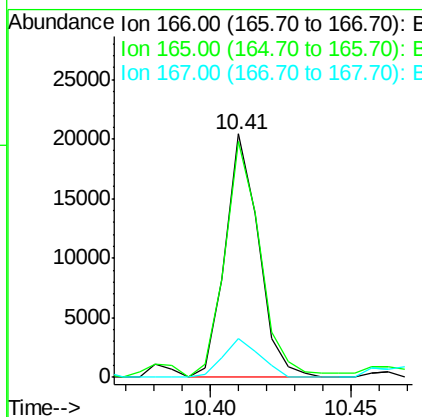
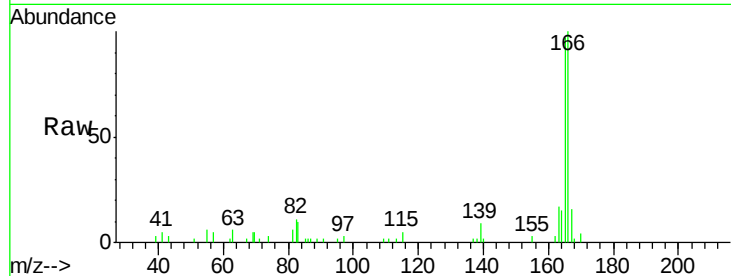
#57
 Fluorene
 Concen: 2.862 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. -0.01 min
 Lab File: BF101337.D
 Acq: 12 Dec 2017 18:38

Instrument :
 BNA_F
 ClientSampled :
 SB-4(0-2)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		16840		
165	96.9	79.8	119.8		
167	15.9	10.6	16.0		

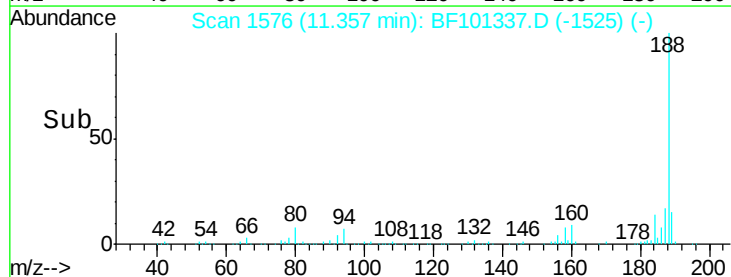
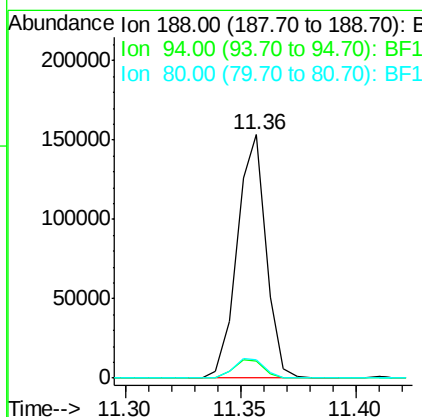
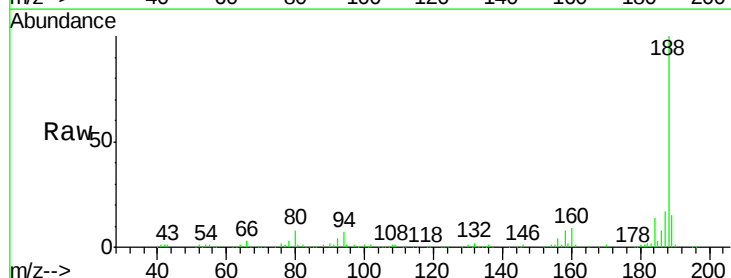
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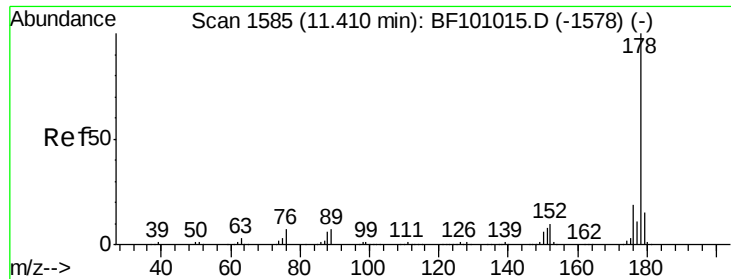
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: BF101337.D
 Acq: 12 Dec 2017 18:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		133034		
94	7.2	8.5	12.7#		
80	7.6	9.2	13.8#		





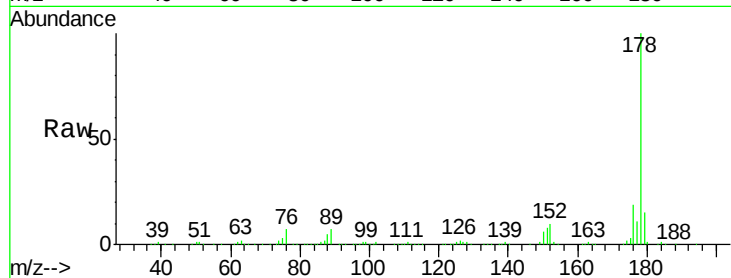
#70
Phenanthrene
Concen: 30.241 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

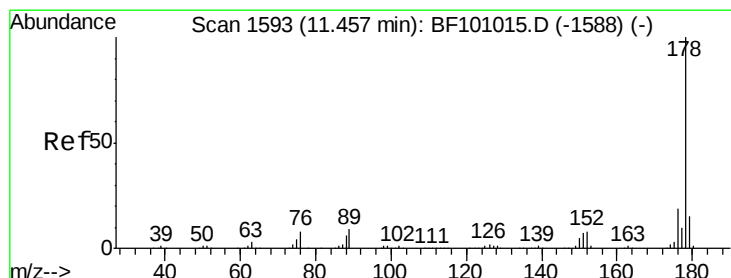
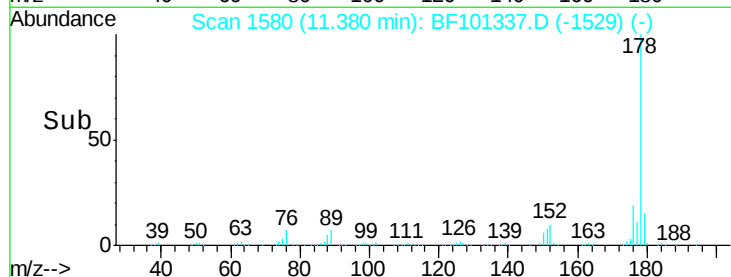
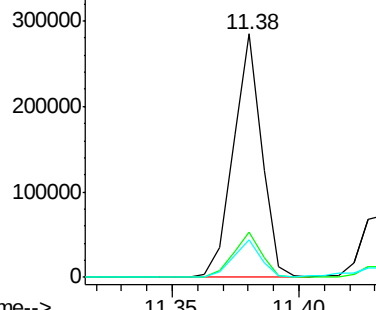
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.4	13.0	19.6

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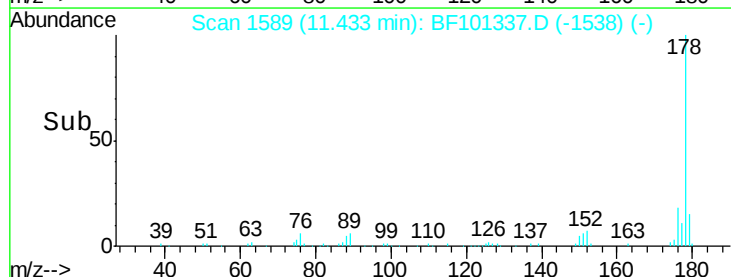
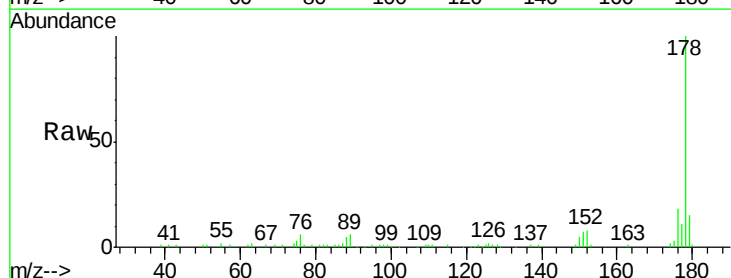
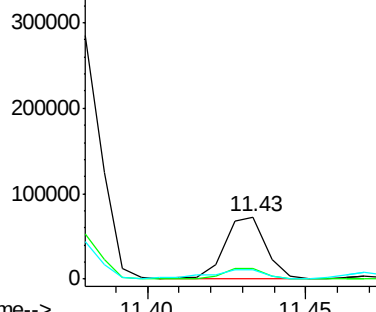
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

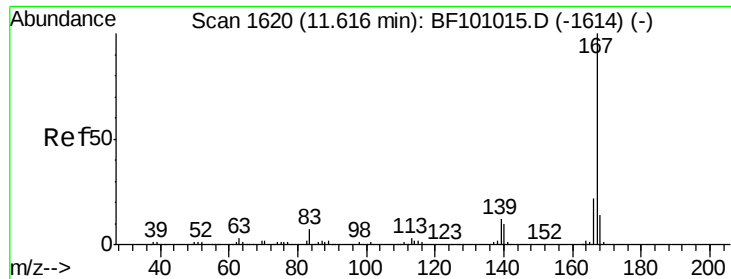


#71
Anthracene
Concen: 8.752 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.1	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





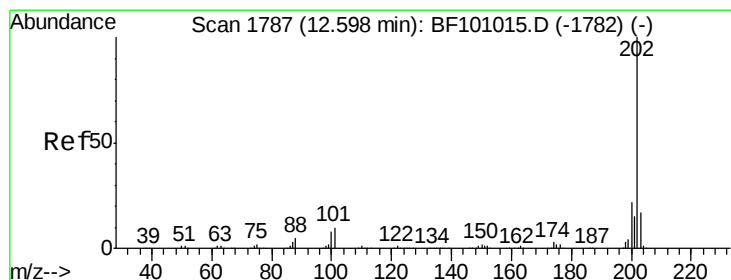
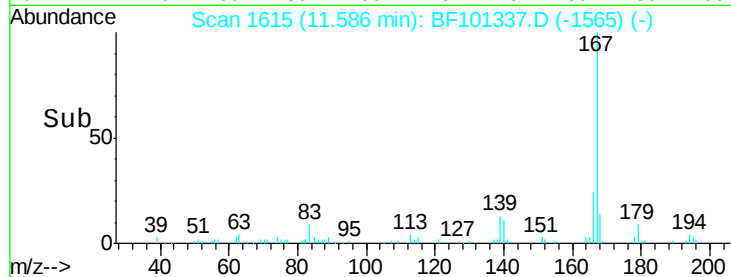
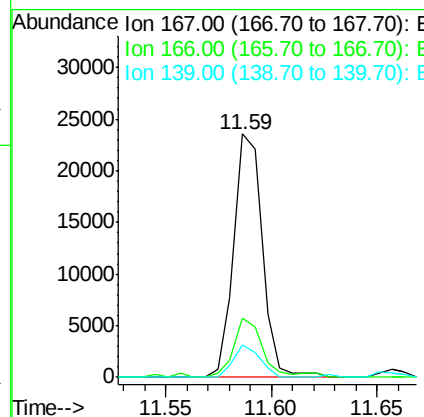
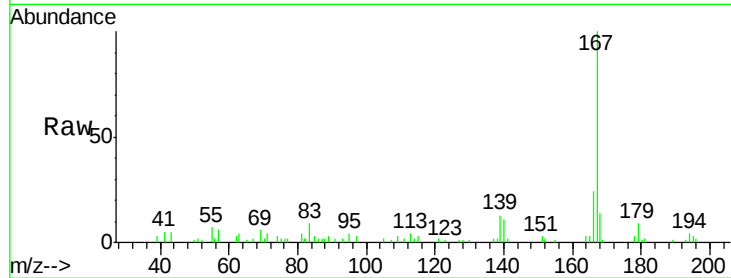
#72
 Carbazole
 Concen: 3.240 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.01 min
 Lab File: BF101337.D
 Acq: 12 Dec 2017 18:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
167	100		
166	24.1	17.6	26.4
139	13.2	10.9	16.3

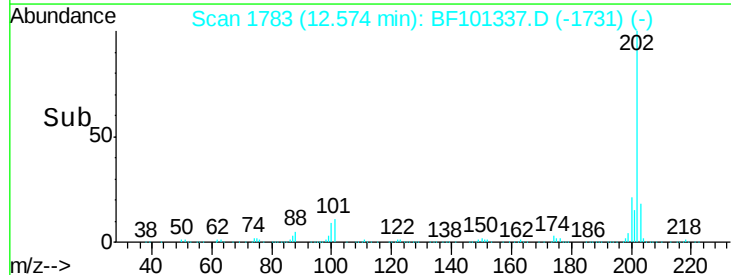
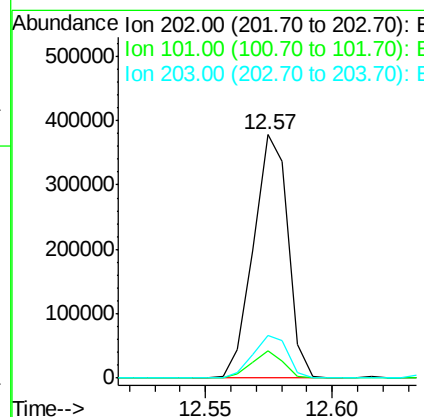
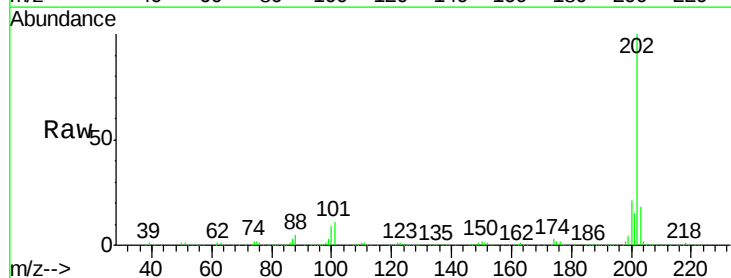
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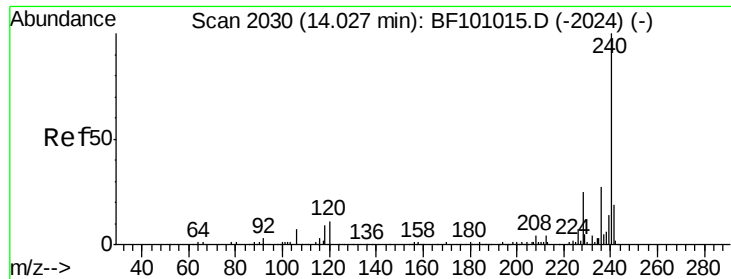
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#74
 Fluoranthene
 Concen: 44.290 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF101337.D
 Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

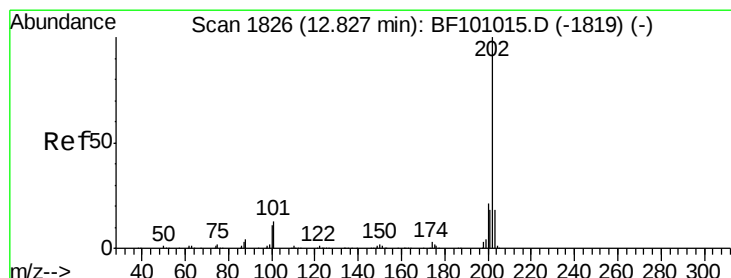
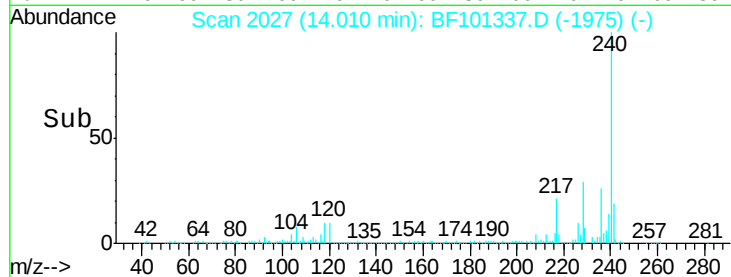
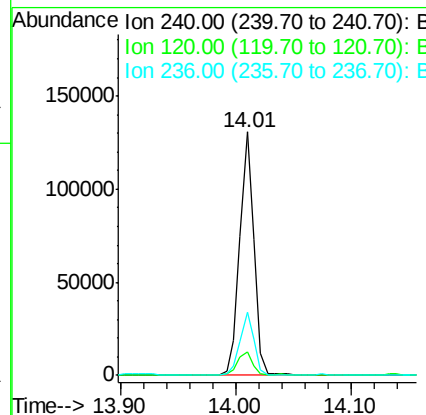
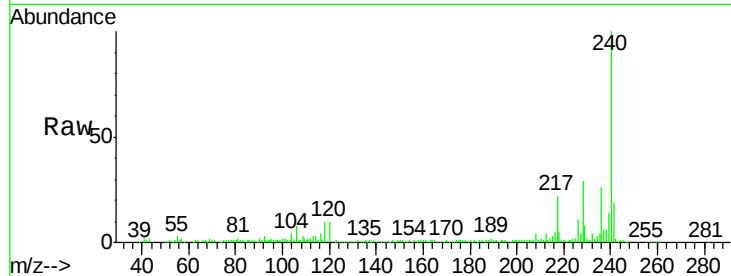
ClientSampled :

SB-4(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	112415		
120	9.7		9.5	14.3
236	25.9		20.7	31.1

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#77

Pyrene

Concen: 43.368 ng

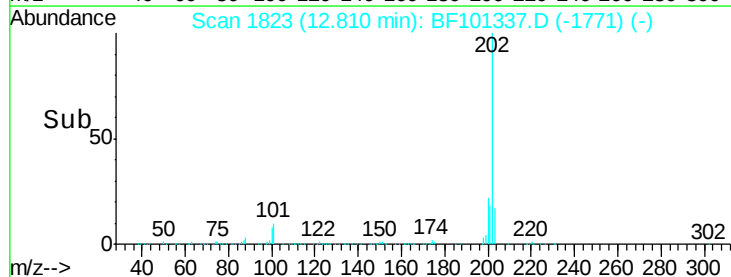
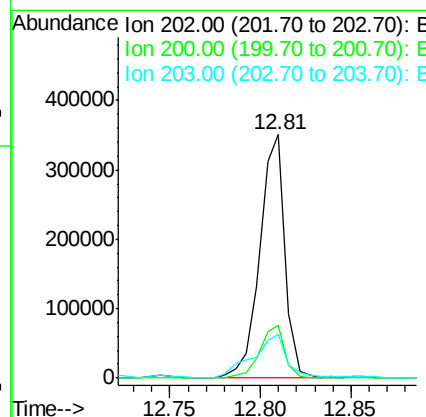
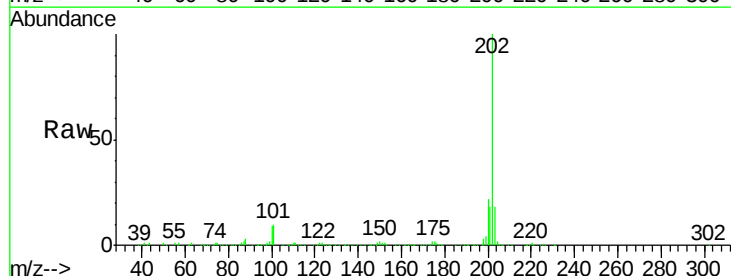
RT: 12.81 min Scan# 1823

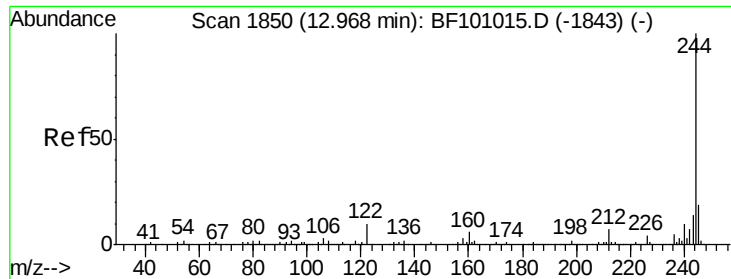
Delta R.T. 0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	336405		
200	21.6		17.4	26.2
203	17.9		14.3	21.5





#78

Terphenyl-d14

Concen: 62.785 ng

RT: 12.94 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

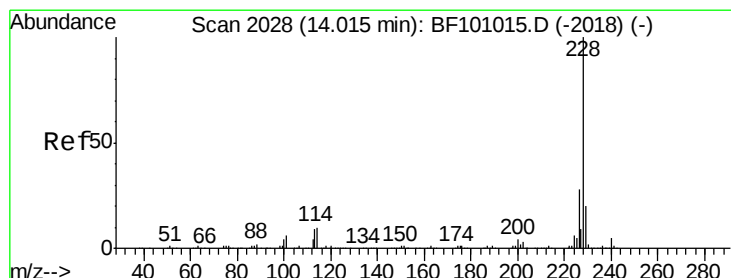
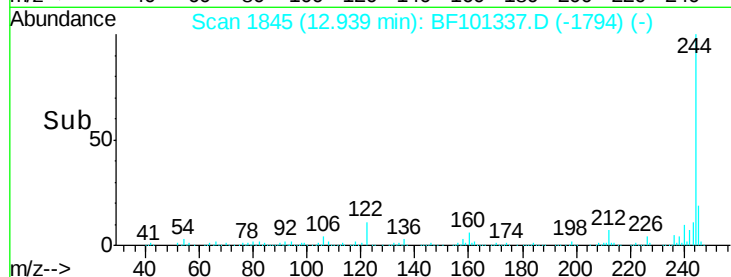
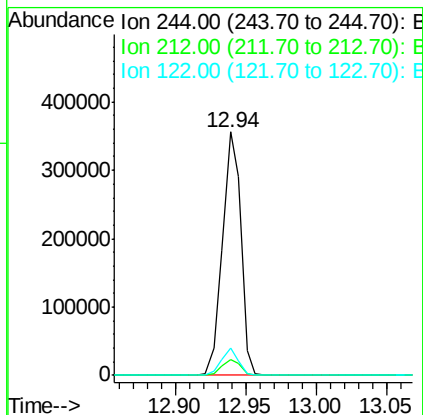
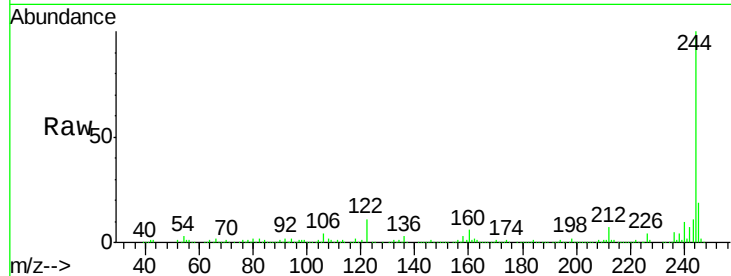
ClientSampleId :

SB-4(0-2)

Tot Ion:	244	Resp:	322687
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	11.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 27.954 ng

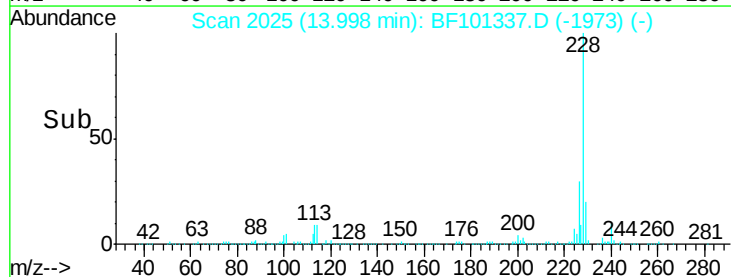
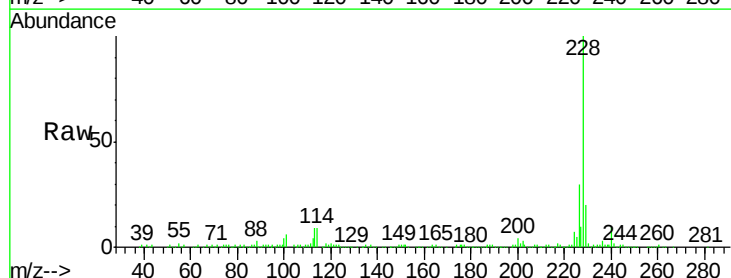
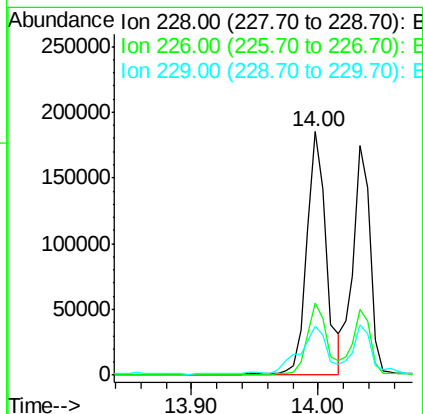
RT: 14.00 min Scan# 2025

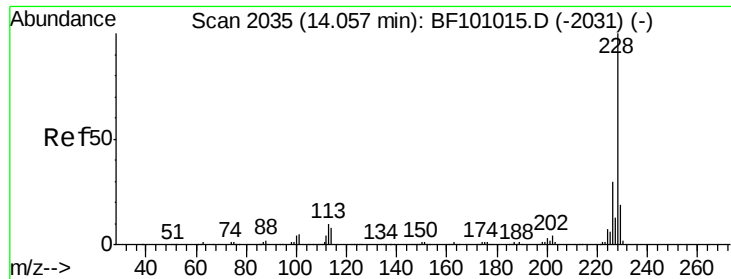
Delta R.T. 0.01 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Tgt Ion:	228	Resp:	198412
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.6	33.8
229	20.4	15.8	23.6





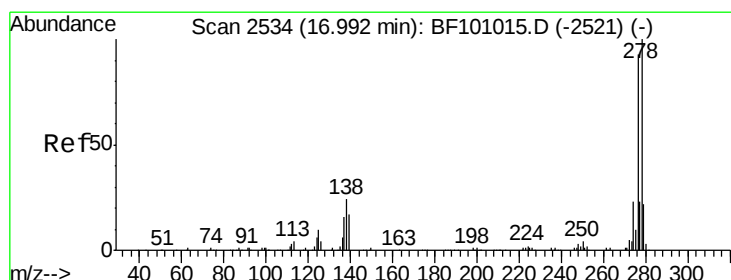
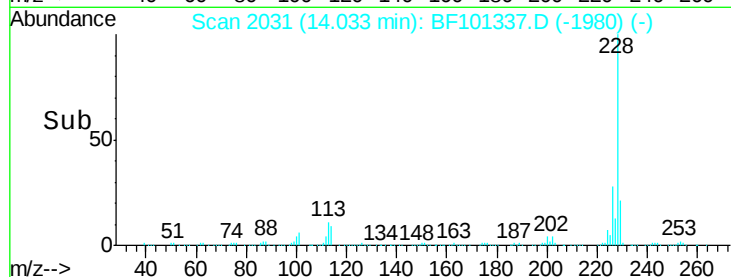
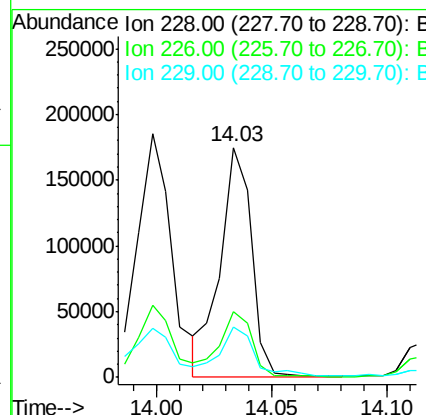
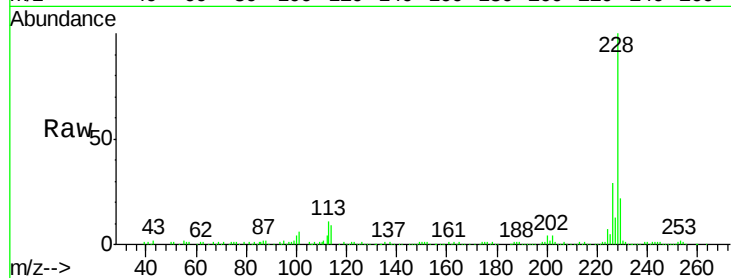
#82
Chrysene
Concen: 24.927 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.00 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	25.0	37.6
229	21.7	16.2	24.4

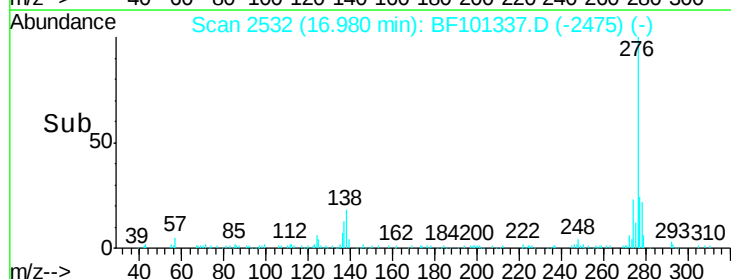
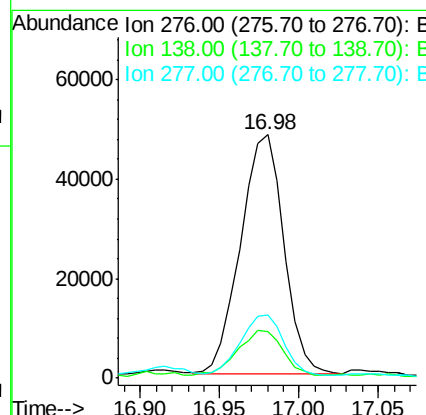
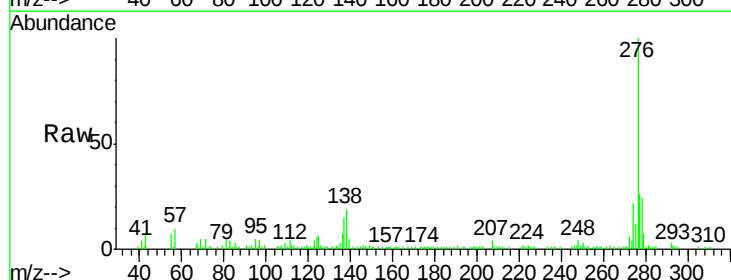
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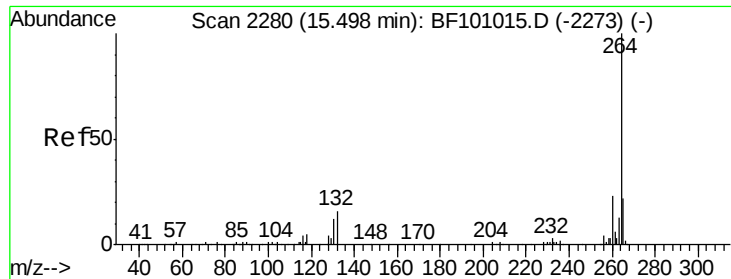
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#85
Indeno(1,2,3-cd)pyrene
Concen: 15.550 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.04 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.1	25.0	37.6#
277	24.5	20.1	30.1





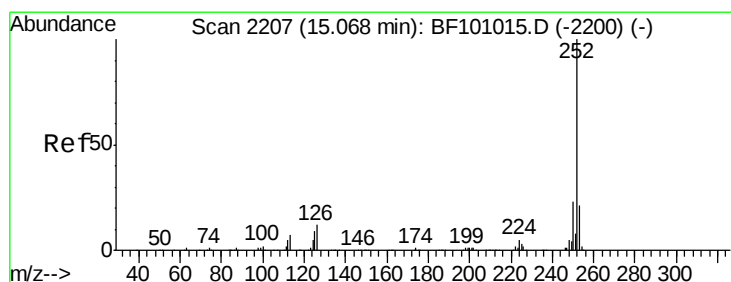
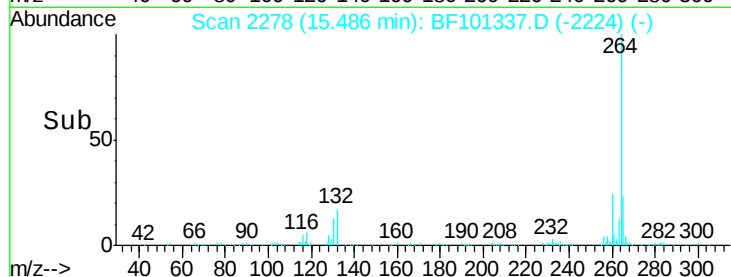
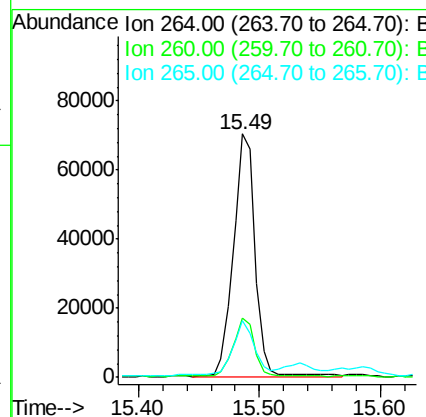
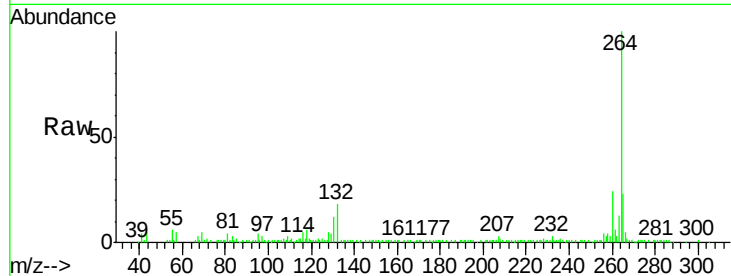
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion:	264	Resp:	87556
Ion Ratio	Lower	Upper	
264	100		
260	24.3	19.2	28.8
265	23.2	17.5	26.3

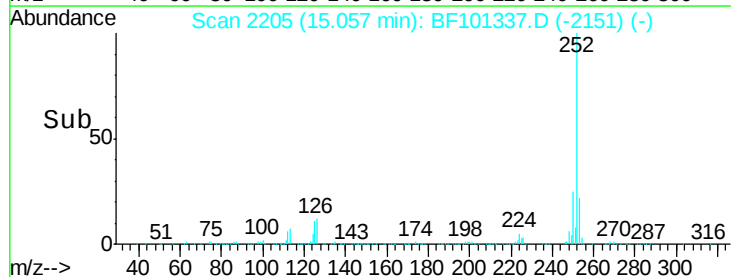
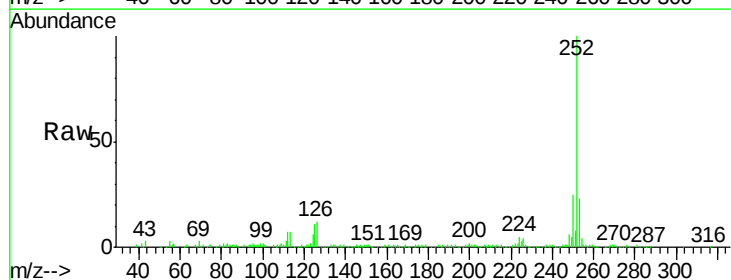
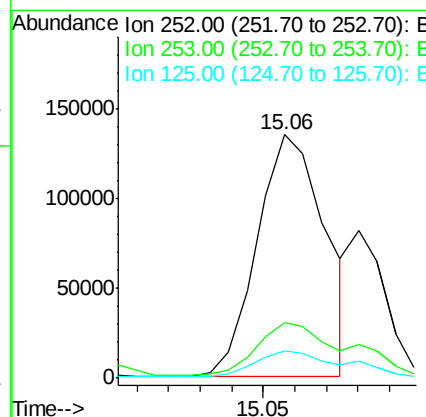
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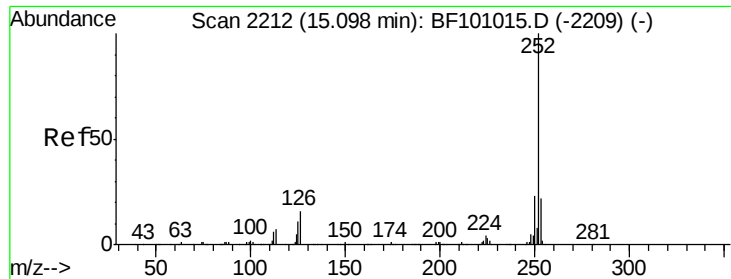
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#87
Benzo(b)fluoranthene
Concen: 38.534 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion:	252	Resp:	202087
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	11.2	9.0	13.6





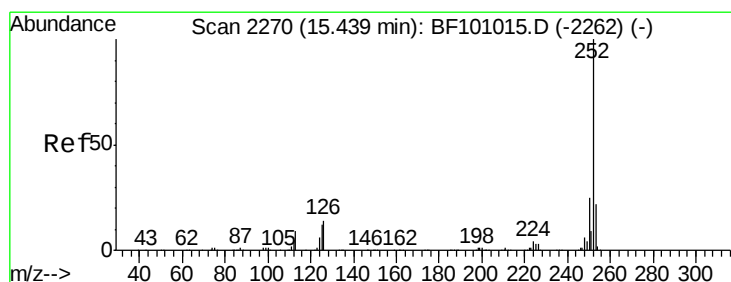
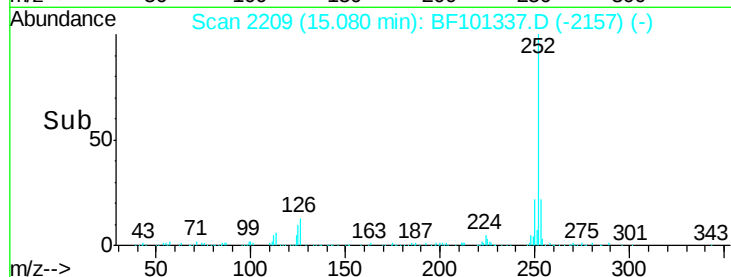
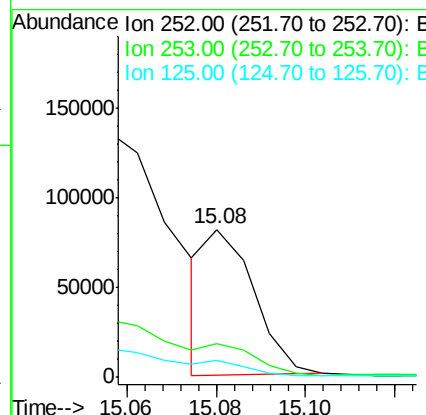
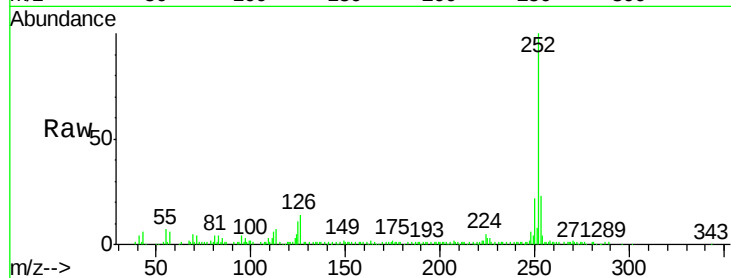
#88
Benzo(k)fluoranthene
Concen: 11.771 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	11.3	10.2	15.2

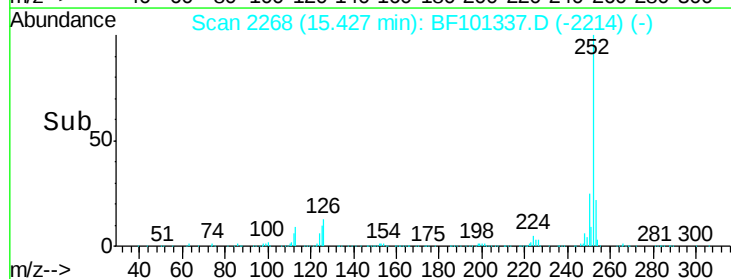
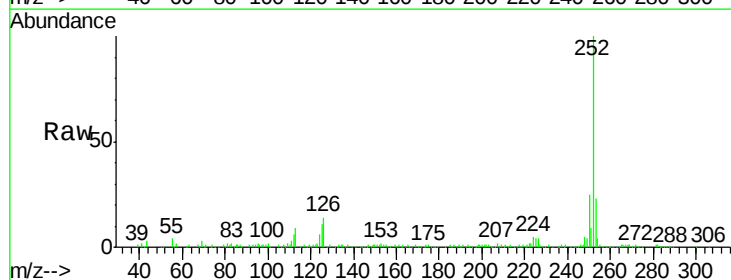
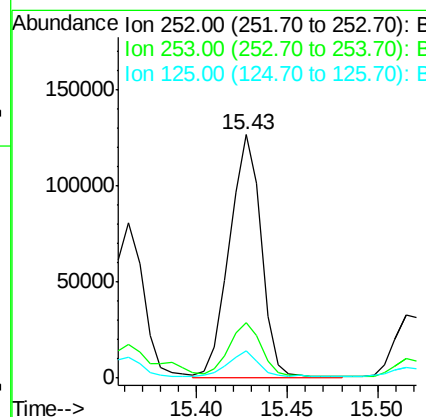
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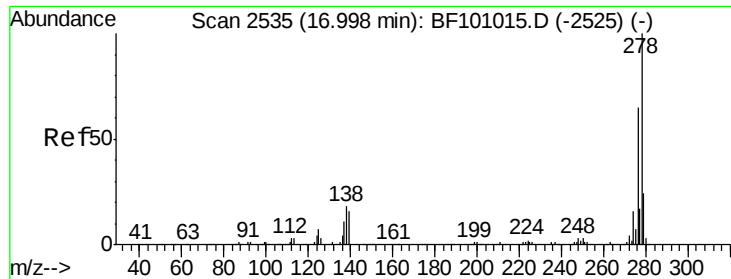
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#89
Benzo(a)pyrene
Concen: 32.265 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.02 min
Lab File: BF101337.D
Acq: 12 Dec 2017 18:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	11.2	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.883 ng

RT: 16.98 min Scan# 2532

Delta R.T. 0.02 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Instrument :

BNA_F

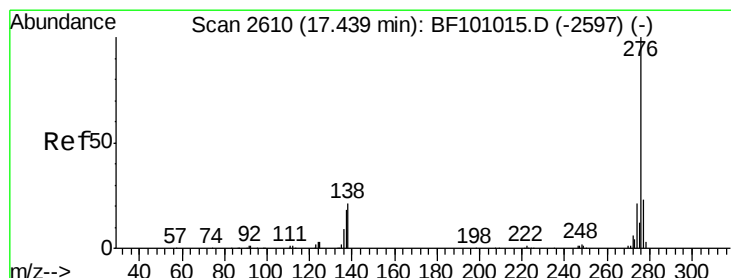
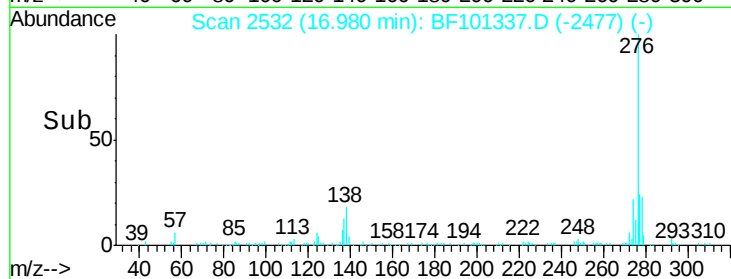
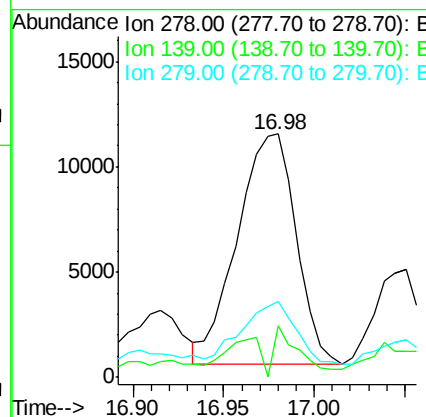
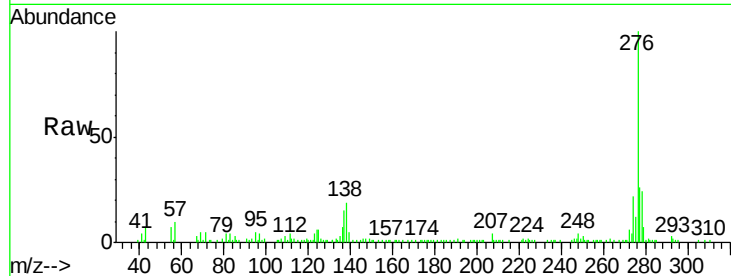
ClientSampled :

SB-4(0-2)

Tot Ion:	278	Resp:	24729
Ion Ratio	Lower	Upper	
278	100		
139	21.3	15.9	23.9
279	31.3	19.0	28.4#

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 22.049 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.04 min

Lab File: BF101337.D

Acq: 12 Dec 2017 18:38

Tgt Ion:	276	Resp:	87339
Ion Ratio	Lower	Upper	
276	100		
277	26.4	17.9	26.9
138	20.8	21.8	32.8#

