

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
 Data File : BF101346.D
 Acq On : 12 Dec 2017 22:41
 Operator : SJ/JU
 Sample : I6822-14 50X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-6(13-15)

Manual Integrations
 APPROVED

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Quant Time: Dec 13 11:32:58 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	40169	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	146913	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	60687	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	112388	20.00	ng	0.00
75) Chrysene-d12	14.00	240	103288	20.00	ng	0.00
86) Perylene-d12	15.49	264	86625	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	4053	1.67	ng	0.02
7) Phenol-d6	6.47	99	5304	1.80	ng	0.01
23) Nitrobenzene-d5	7.39	82	2872	1.17	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	1060	1.45	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	5700	1.29	ng	0.00
78) Terphenyl-d14	12.93	244	5500	1.16	ng	0.00
Target Compounds						
70) Phenanthrene	11.38	178	41861	6.764	ng	98
71) Anthracene	11.43	178	15938	2.544	ng	97
74) Fluoranthene	12.57	202	84315	12.290	ng	92
77) Pyrene	12.80	202	86979	12.204	ng	98
80) Benzo(a)anthracene	13.99	228	91938	14.098	ng	97
82) Chrysene	14.03	228	75267	12.427	ng	95
85) Indeno(1,2,3-cd)pyrene	16.97	276	78063	14.498	ng	# 89
87) Benzo(b)fluoranthene	15.06	252	128288m	24.725	ng	
88) Benzo(k)fluoranthene	15.08	252	49804m	9.743	ng	
89) Benzo(a)pyrene	15.42	252	118129	25.043	ng	97
90) Dibenzo(a,h)anthracene	16.97	278	23244	5.589	ng	# 88
91) Benzo(a,h,i)perylene	17.43	276	71630	18.277	ng	# 92

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

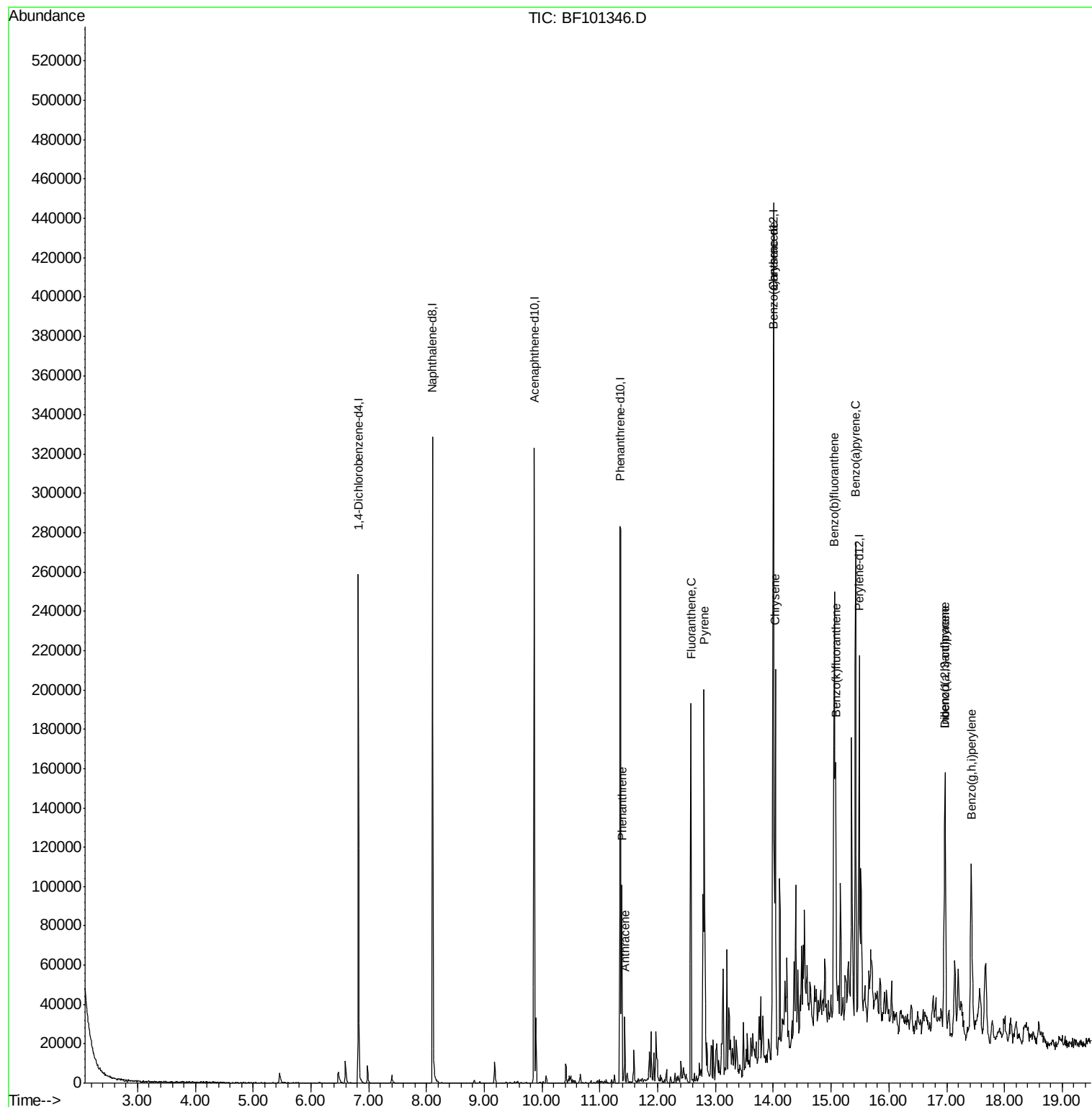
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101346.D
Acq On : 12 Dec 2017 22:41
Operator : SJ/JU
Sample : I6822-14 50X
Misc :
ALS Vial : 21 Sample Multiplier: 1

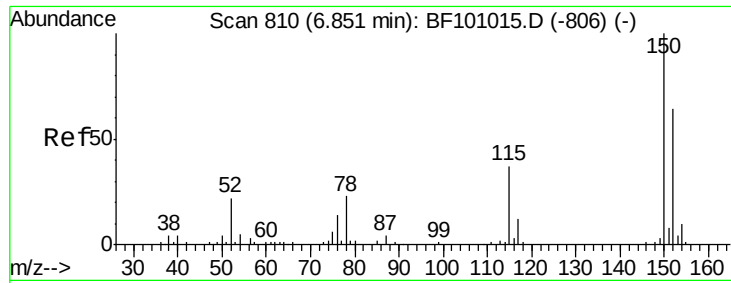
Instrument :
BNA_F
ClientSampleId :
SB-6(13-15)

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Quant Time: Dec 13 11:32:58 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

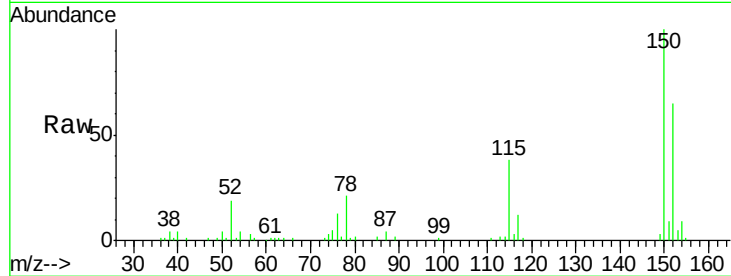
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampleId :
SB-6(13-15)

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.6	186.8
115	58.0	50.1	75.1

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Abundance

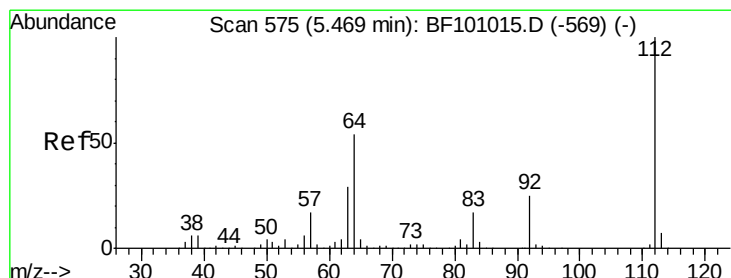
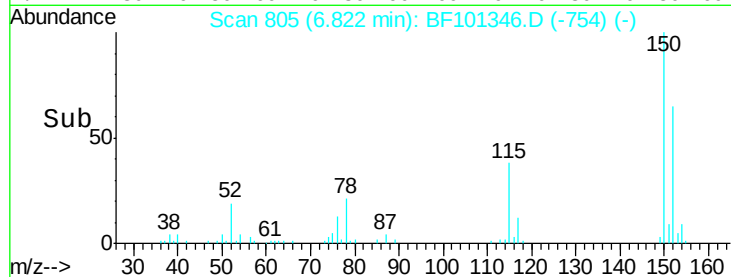
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

6.82

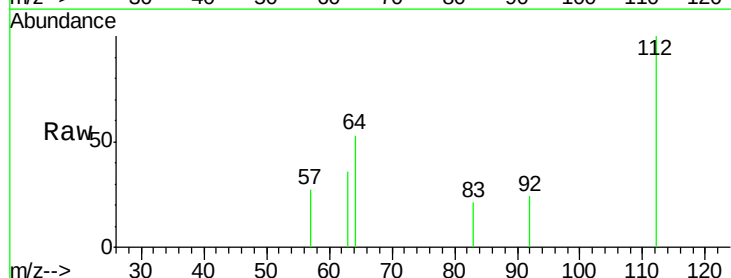
Time-->



#5

2-Fluorophenol
Concen: 1.667 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	47.9	71.9
63	36.2	23.7	35.5#



Abundance

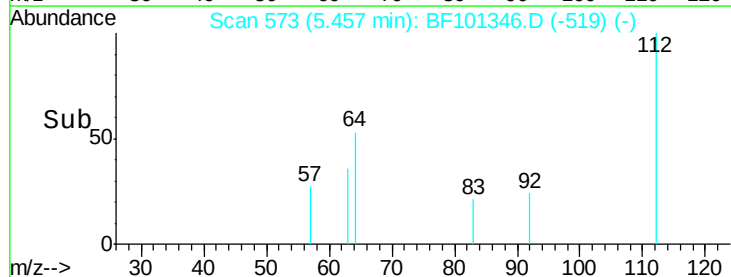
Ion 112.00 (111.70 to 112.70): E

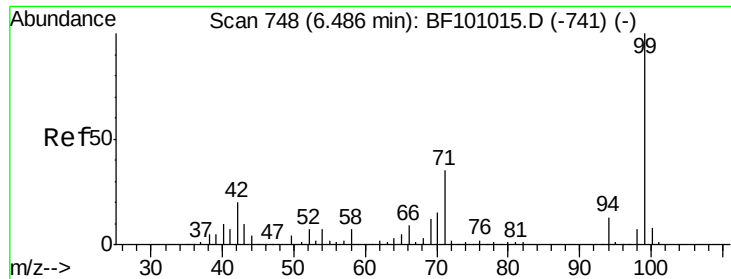
Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

5.46

Time-->





#7

Phenol-d6

Concen: 1.797 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

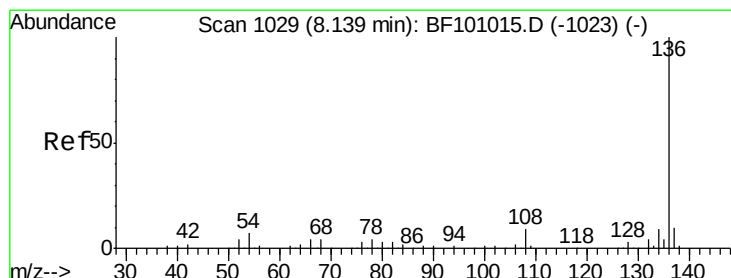
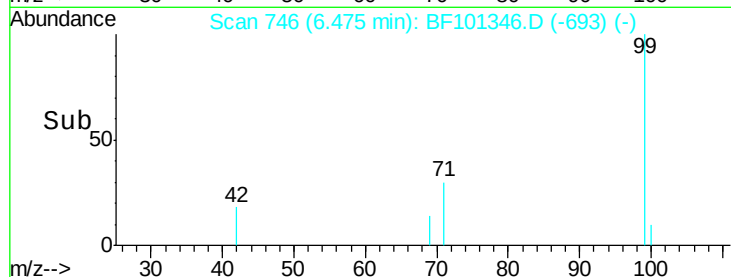
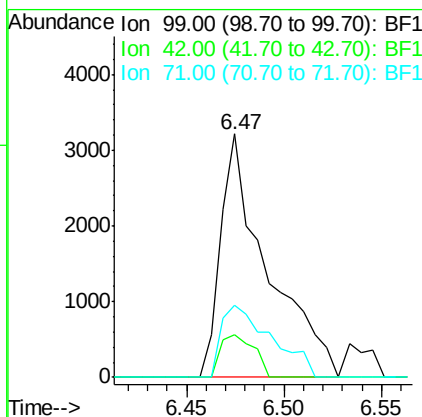
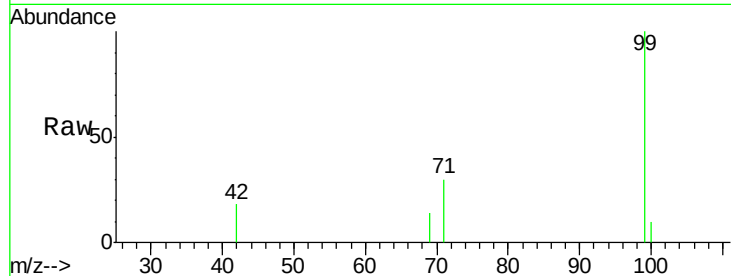
ClientSampleId :

SB-6(13-15)

Tot Ion:	99	Resp:	5304
Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.5	21.7
71	29.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

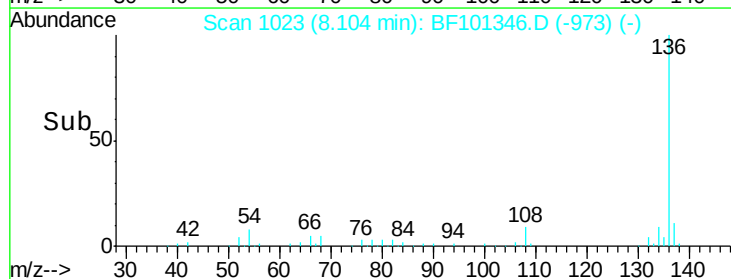
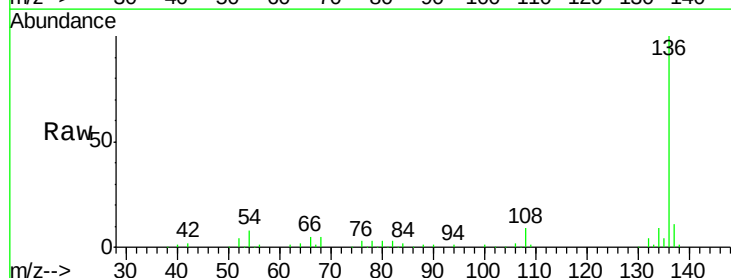
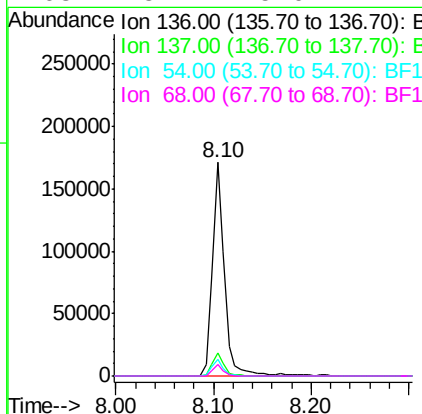
RT: 8.10 min Scan# 1023

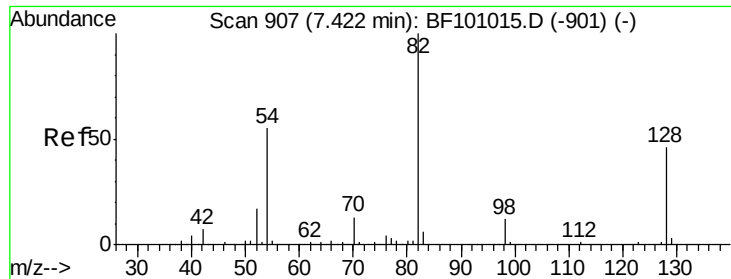
Delta R.T. -0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion:	136	Resp:	146913
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.6	6.6	9.8
68	5.1	5.0	7.4





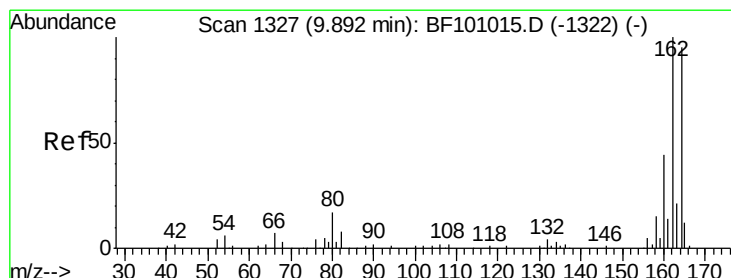
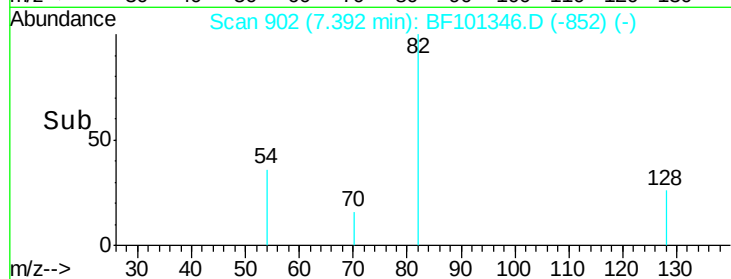
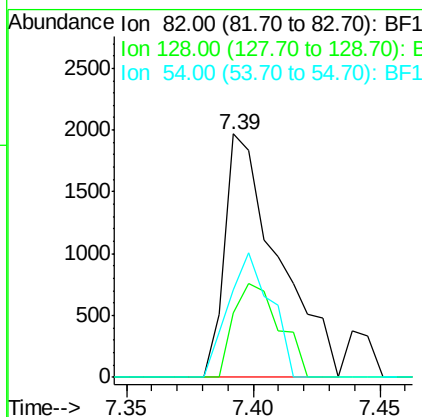
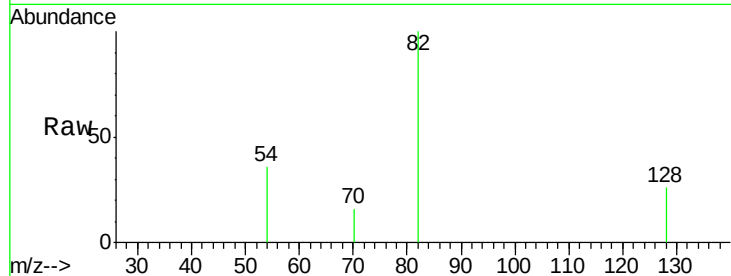
#23
Nitrobenzene-d5
Concen: 1.166 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampled :
SB-6(13-15)

Tot Ion	Ratio	Lower	Upper
82	100		
128	26.3	36.1	54.1#
54	35.9	41.4	62.2#

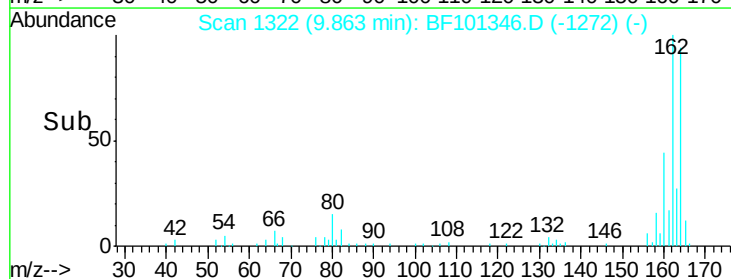
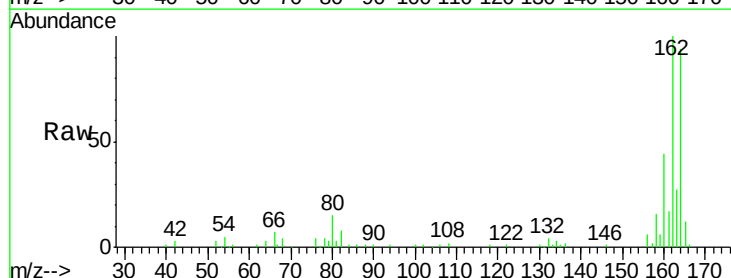
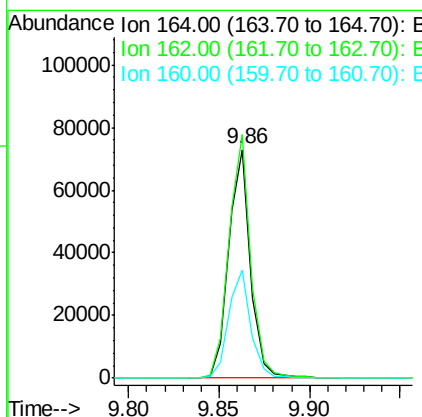
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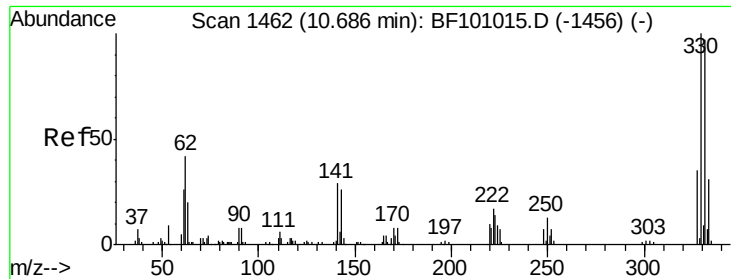
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.1	129.1
160	47.3	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 1.454 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

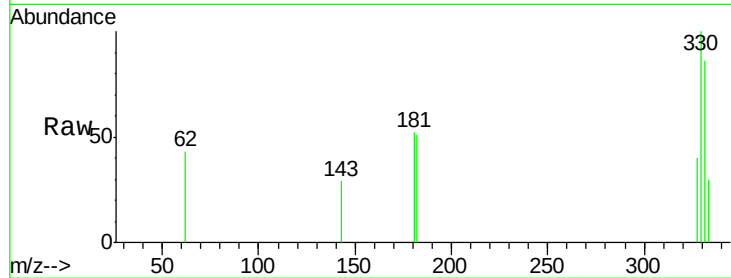
ClientSampled :

SB-6(13-15)

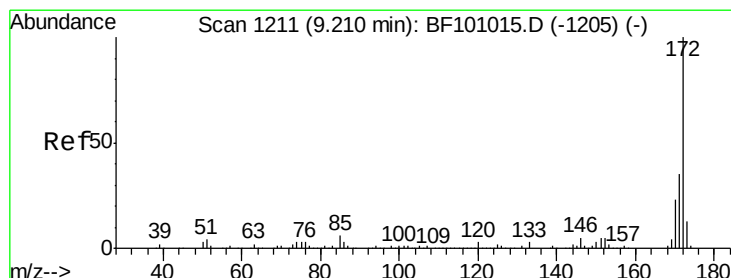
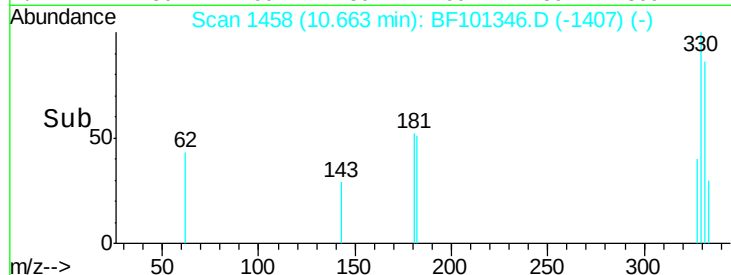
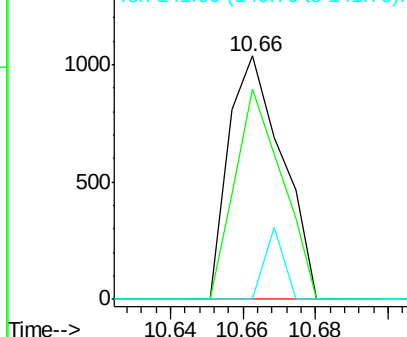
Tot Ion:	330	Resp:	1060
Ion Ratio	Lower	Upper	
330	100		
332	76.9	77.0	115.6#
141	10.2	29.9	44.9#

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: 1.285 ng

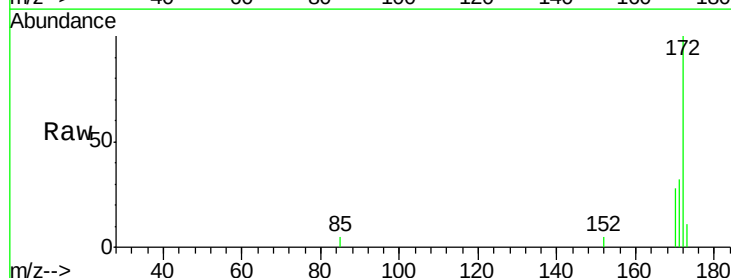
RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

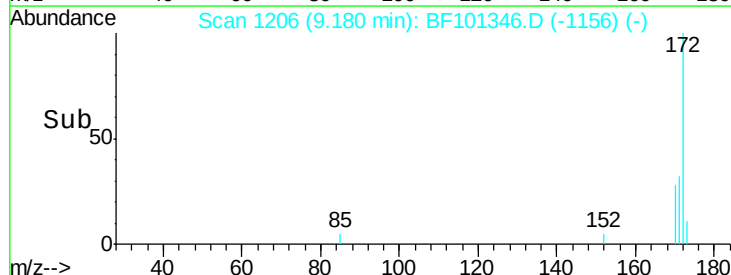
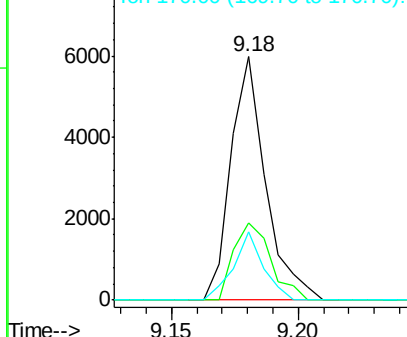
Lab File: BF101346.D

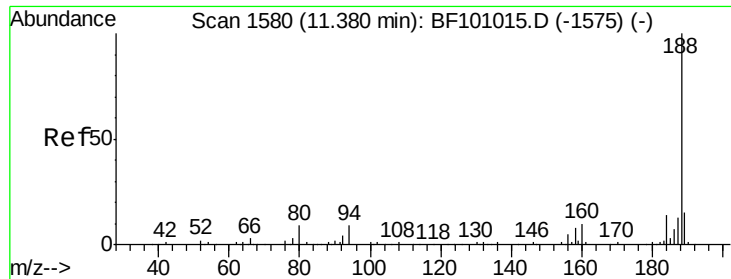
Acq: 12 Dec 2017 22:41

Tgt Ion:	172	Resp:	5700
Ion Ratio	Lower	Upper	
172	100		
171	31.8	29.7	44.5
170	28.0	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





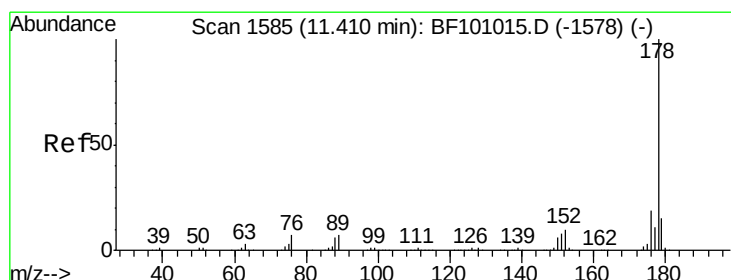
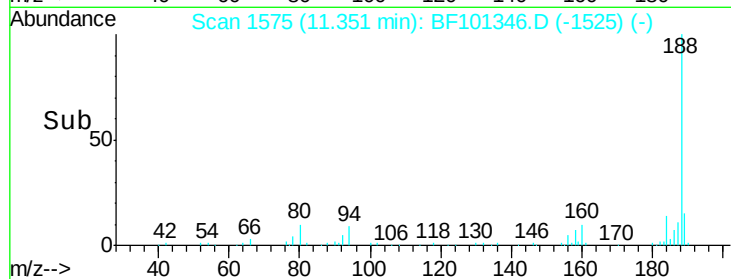
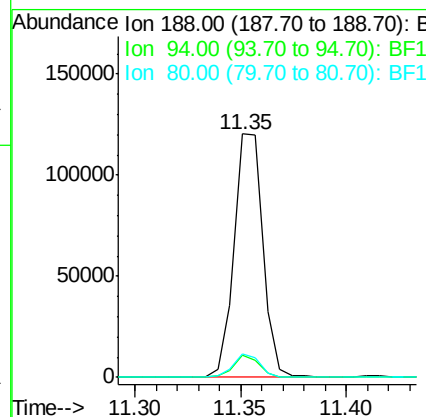
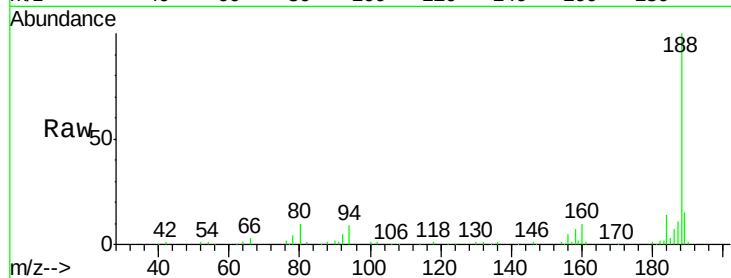
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampleId :
SB-6(13-15)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	112388		
94	9.3	8.5	12.7	
80	9.7	9.2	13.8	

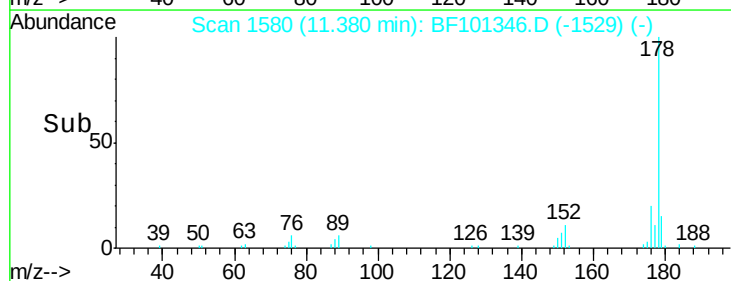
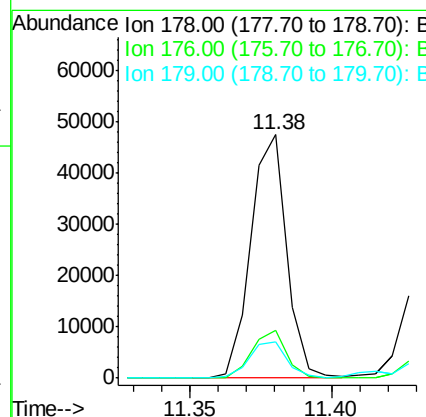
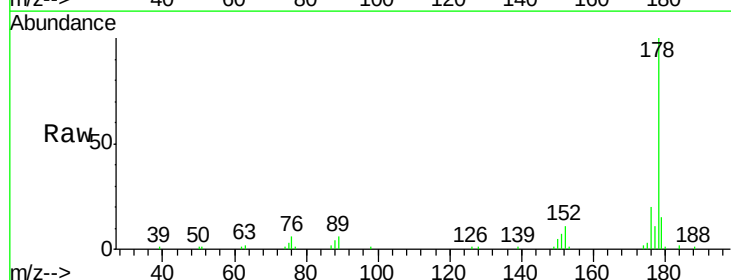
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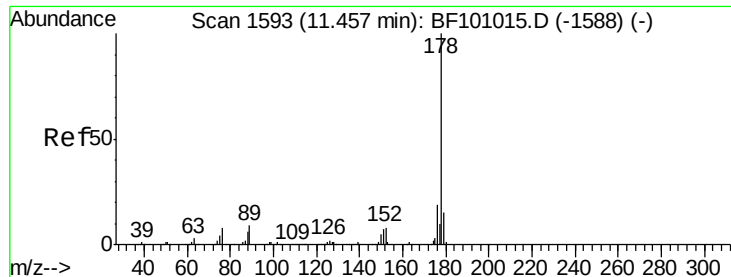
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#70
Phenanthrene
Concen: 6.764 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	41861		
176	19.6	15.8	23.8	
179	14.7	13.0	19.6	





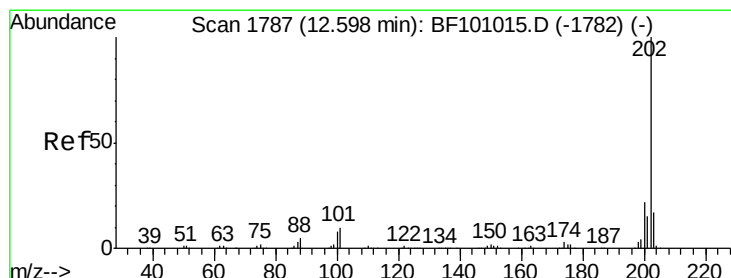
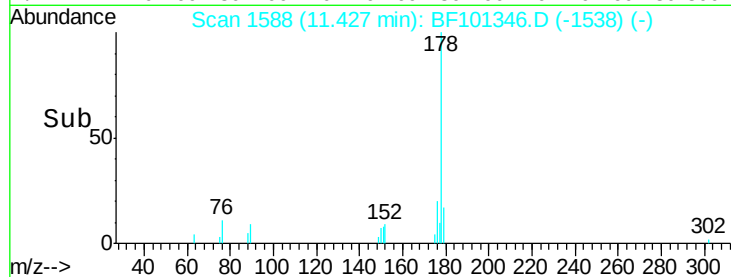
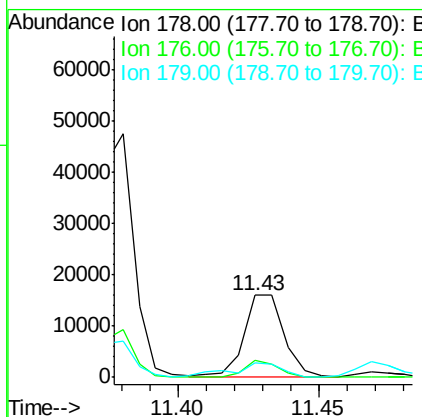
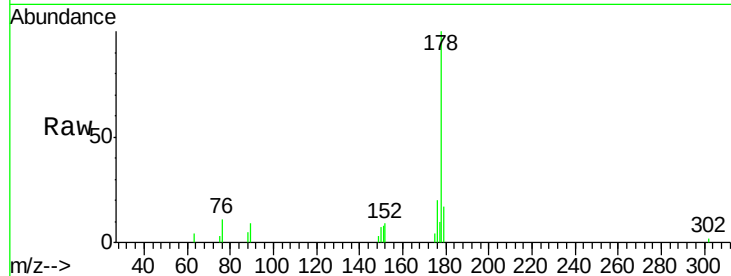
#71
 Anthracene
 Concen: 2.544 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Instrument :
 BNA_F
 ClientSampleId :
 SB-6(13-15)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.4	23.2
179	17.0	12.6	19.0

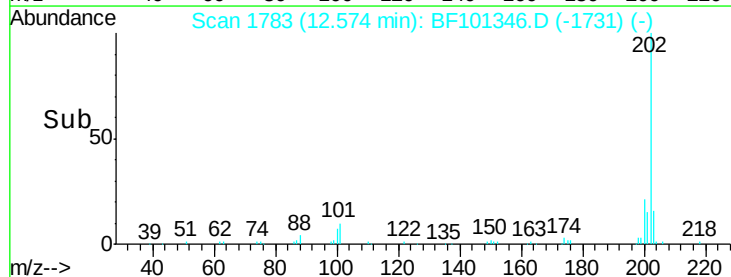
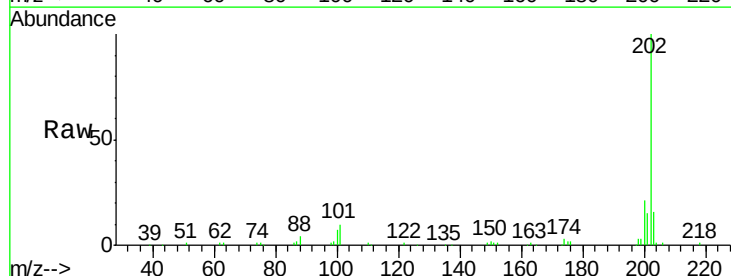
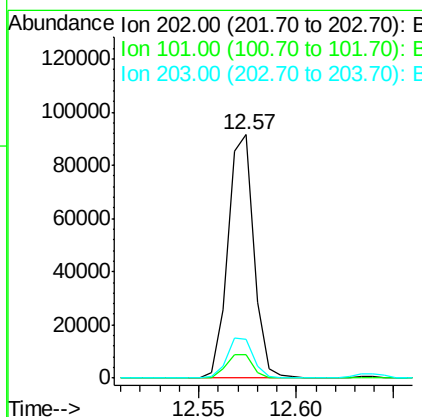
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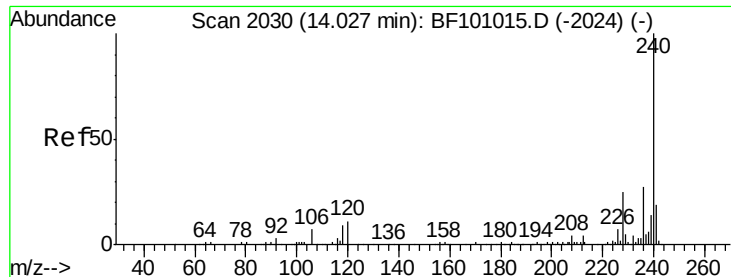
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#74
 Fluoranthene
 Concen: 12.290 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	34.1
203	15.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

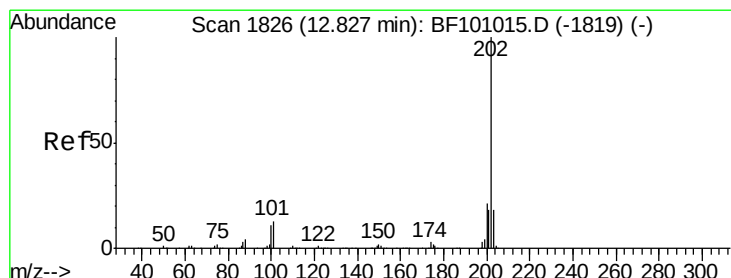
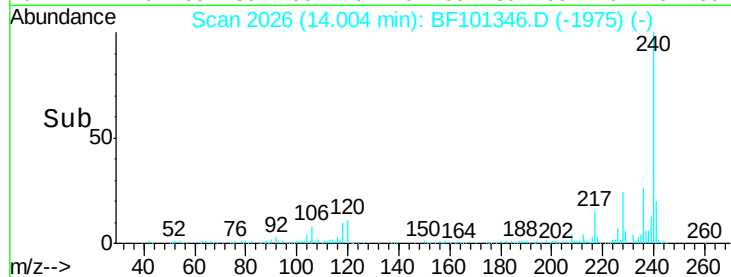
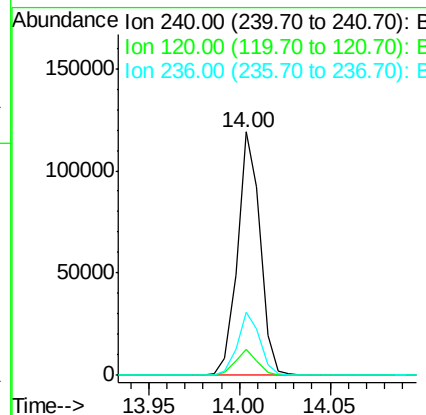
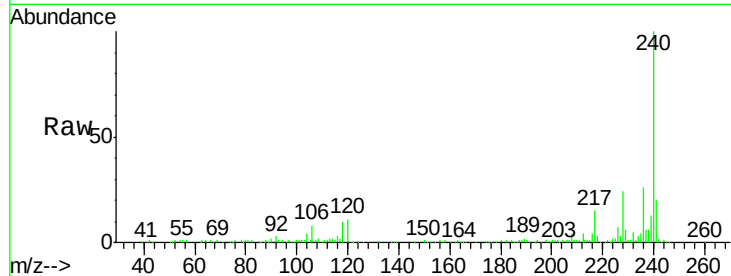
ClientSampleId :

SB-6(13-15)

Tot Ion:	240	Resp:	103288
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.5	14.3
236	26.0	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 12.204 ng

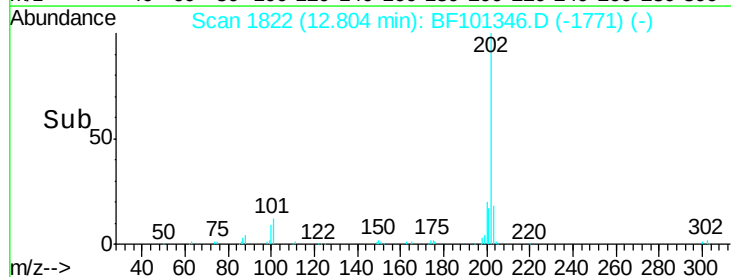
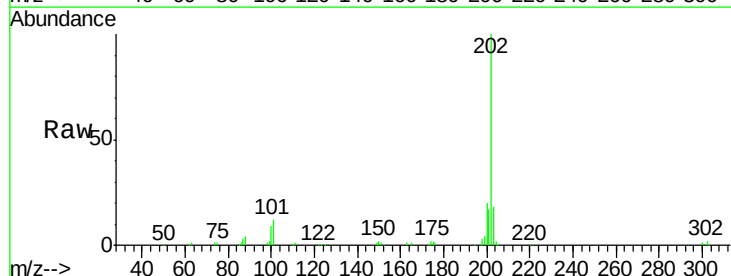
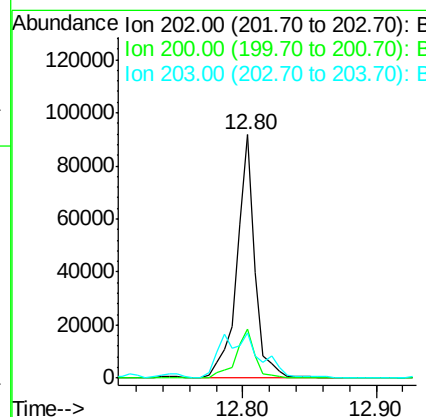
RT: 12.80 min Scan# 1822

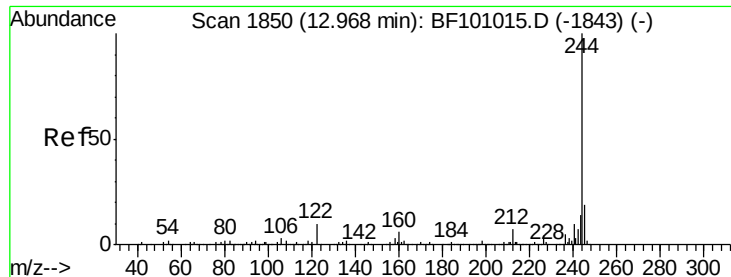
Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion:	202	Resp:	86979
Ion Ratio	Lower	Upper	
202	100		
200	20.2	17.4	26.2
203	18.5	14.3	21.5





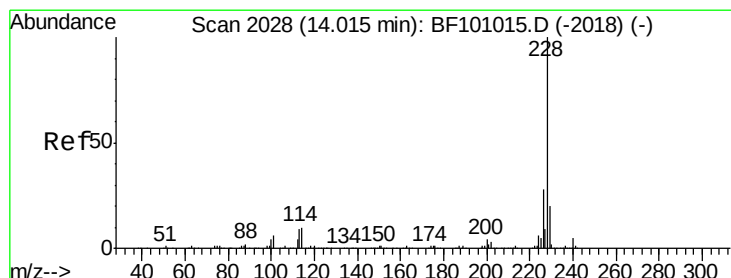
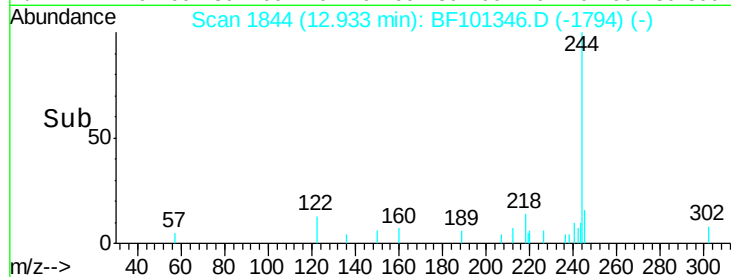
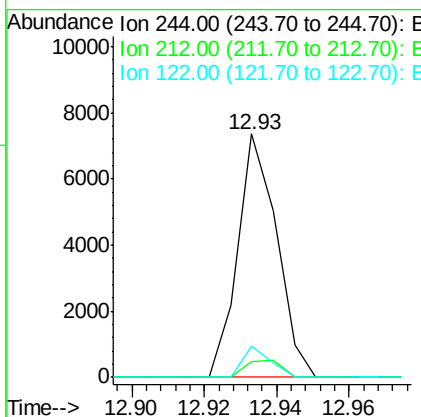
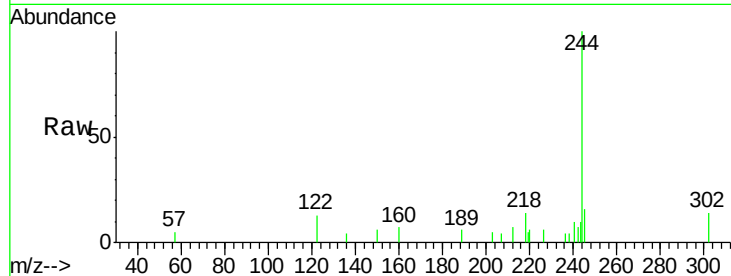
#78
 Terphenyl-d14
 Concen: 1.165 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Instrument :
 BNA_F
 ClientSampled :
 SB-6(13-15)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	12.6	11.0	16.4

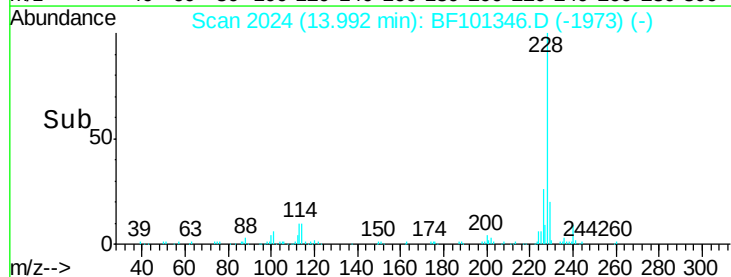
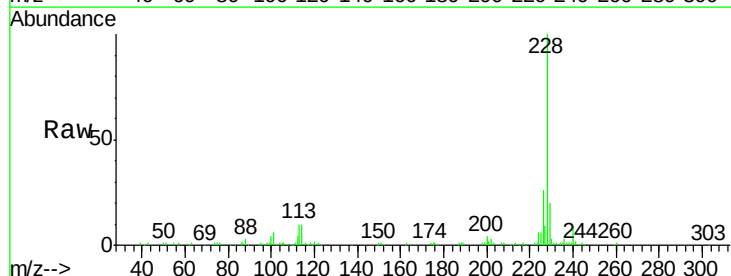
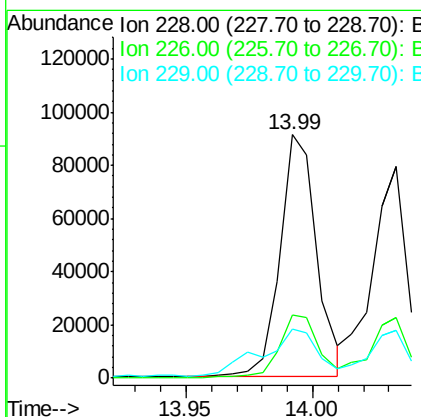
Manual Integrations
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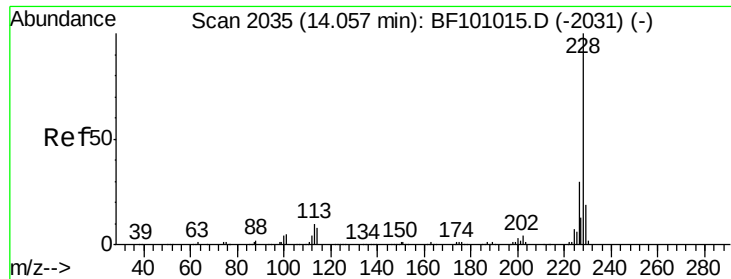
Sohil
 12/13/2017 12:08:06 PM



#80
 Benzo(a)anthracene
 Concen: 14.098 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.00 min
 Lab File: BF101346.D
 Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.9	22.6	33.8
229	20.4	15.8	23.6





#82

Chrysene

Concen: 12.427 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

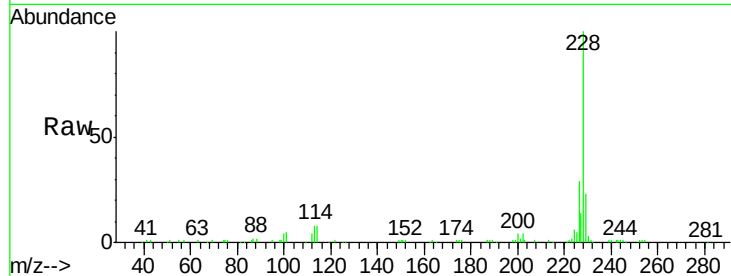
ClientSampled :

SB-6(13-15)

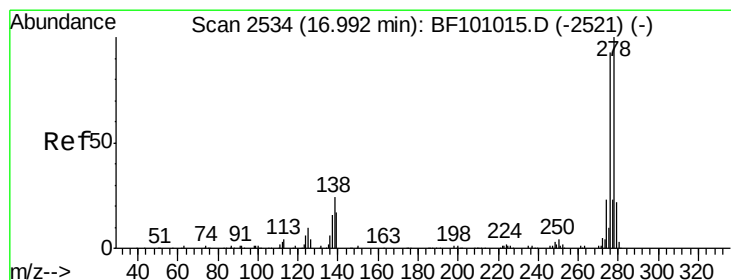
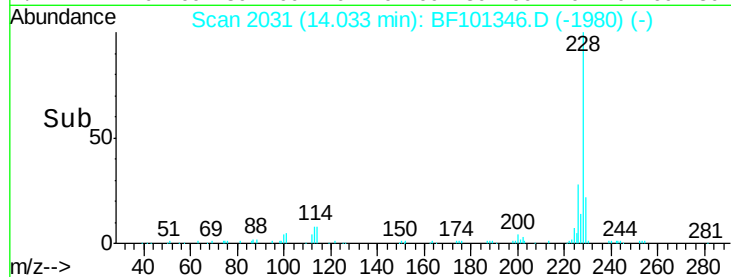
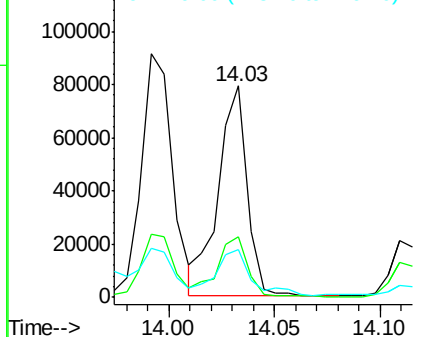
Tot Ion:	228	Resp:	75267
Ion Ratio	Lower	Upper	
228	100		
226	28.7	25.0	37.6
229	22.6	16.2	24.4

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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



#85

Indeno(1,2,3-cd)pyrene

Concen: 14.498 ng

RT: 16.97 min Scan# 2531

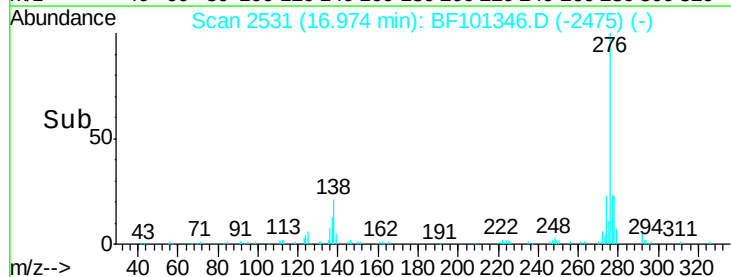
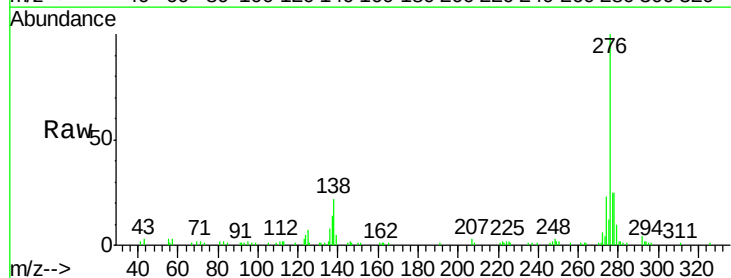
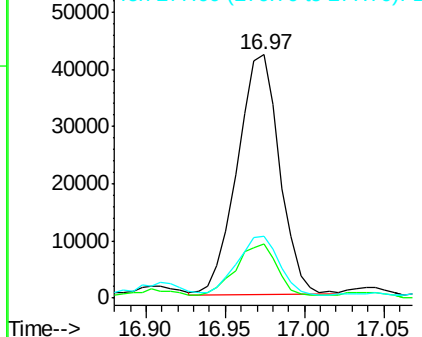
Delta R.T. 0.03 min

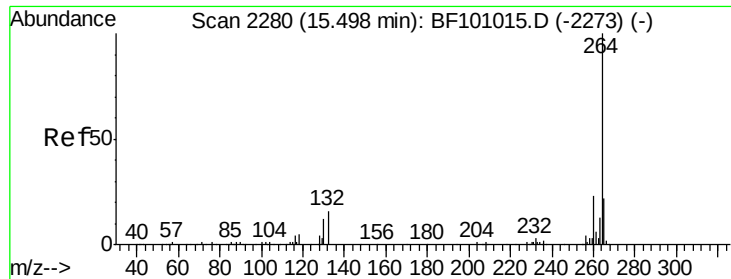
Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion:	276	Resp:	78063
Ion Ratio	Lower	Upper	
276	100		
138	20.9	25.0	37.6#
277	24.1	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





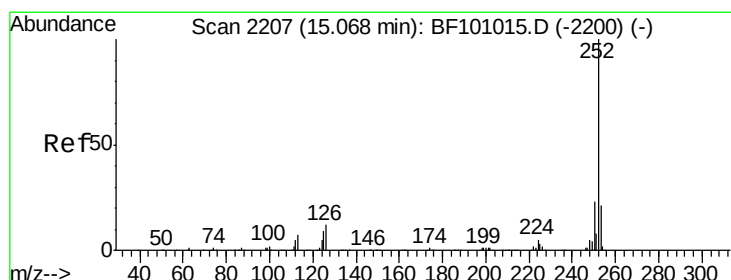
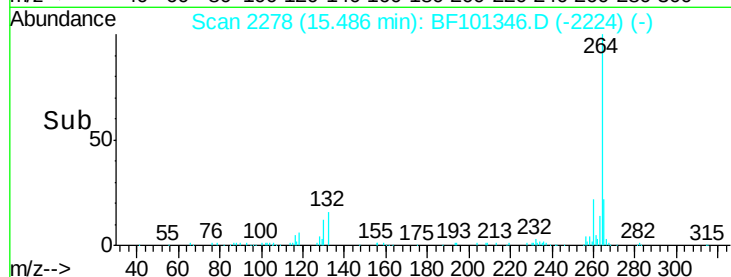
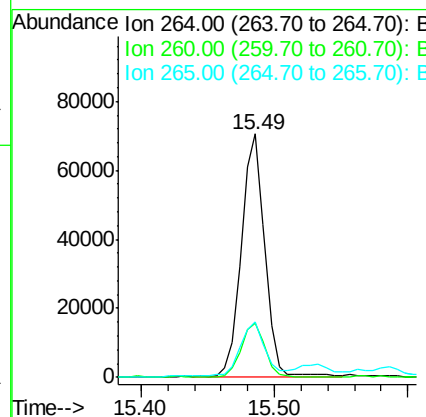
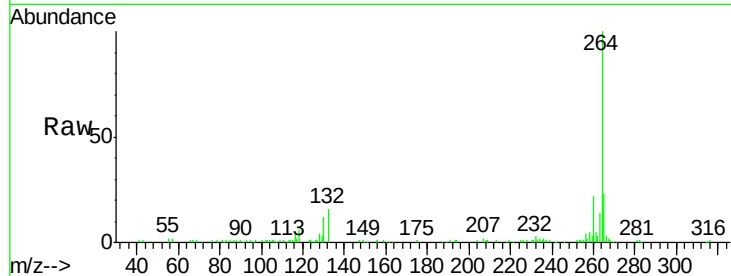
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampleId :
SB-6(13-15)

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

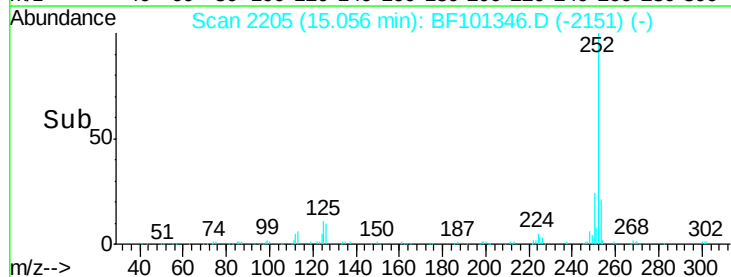
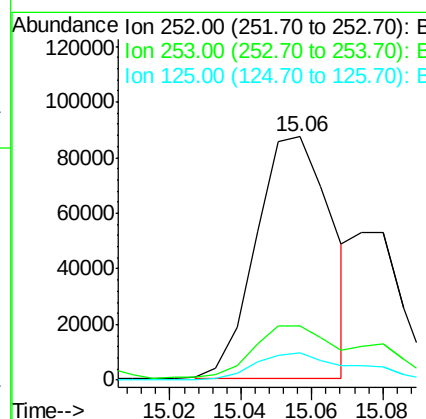
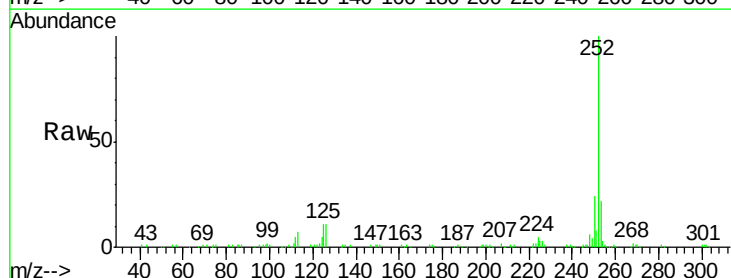
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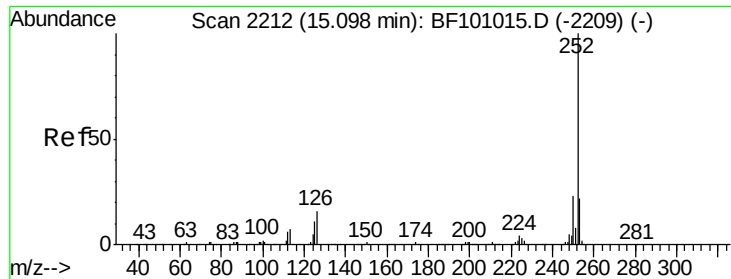
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#87
Benzo(b)fluoranthene
Concen: 24.725 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.6
125	11.0	9.0	13.6





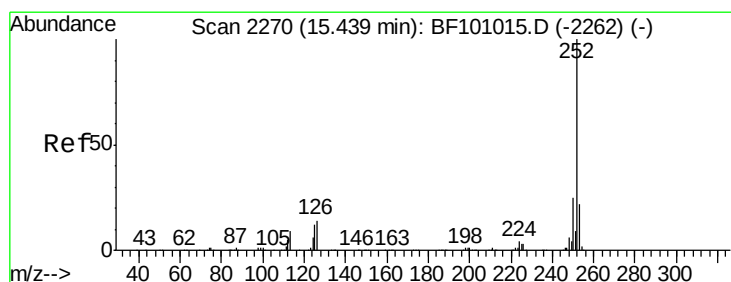
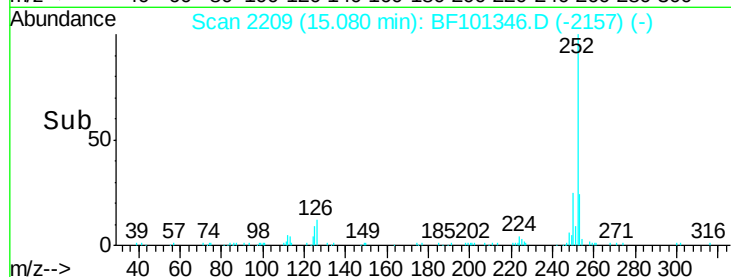
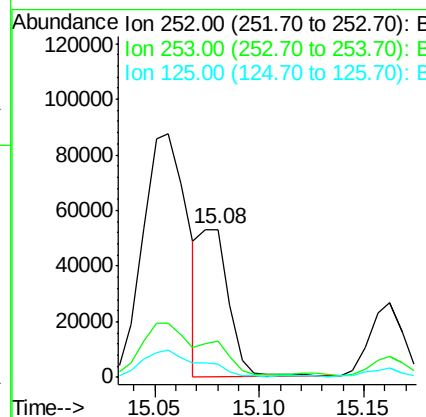
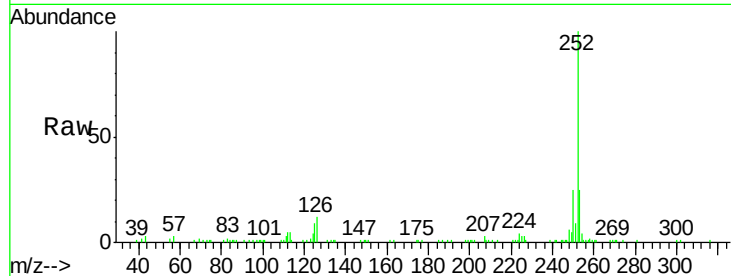
#88
Benzo(k)fluoranthene
Concen: 9.743 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Instrument :
BNA_F
ClientSampled :
SB-6(13-15)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	9.3	10.2	15.2

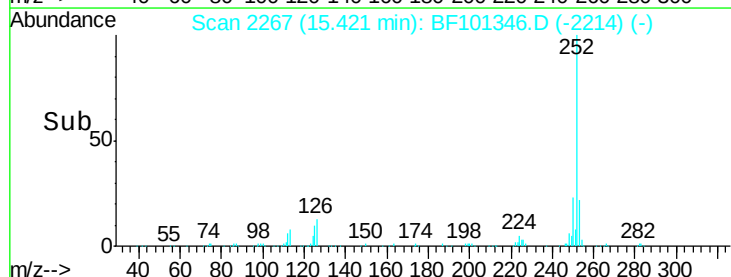
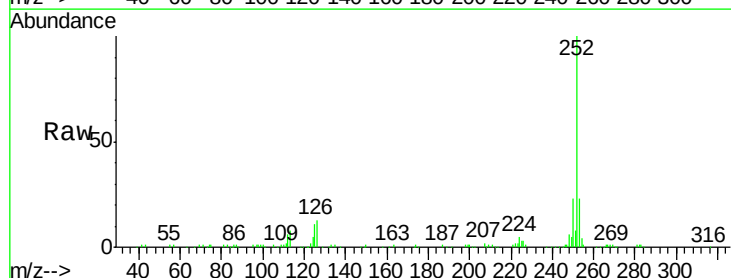
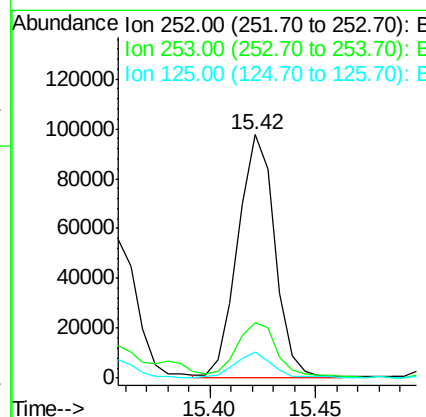
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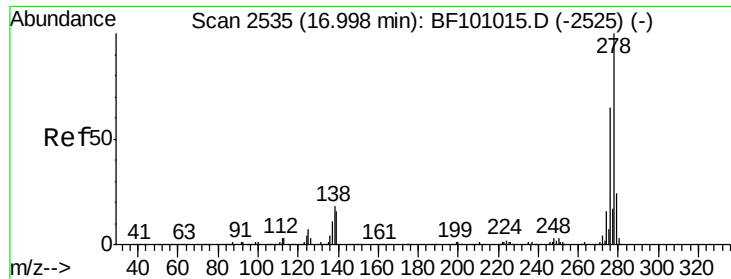
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#89
Benzo(a)pyrene
Concen: 25.043 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.01 min
Lab File: BF101346.D
Acq: 12 Dec 2017 22:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	10.8	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.589 ng

RT: 16.97 min Scan# 2530

Delta R.T. 0.01 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Instrument :

BNA_F

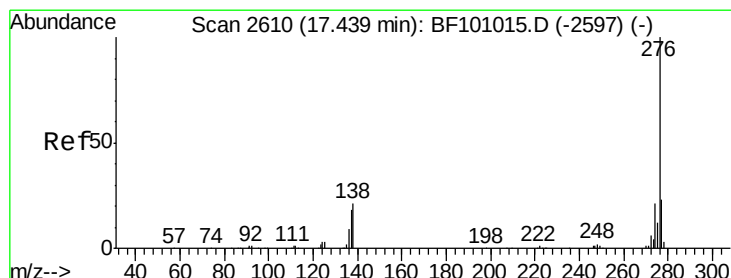
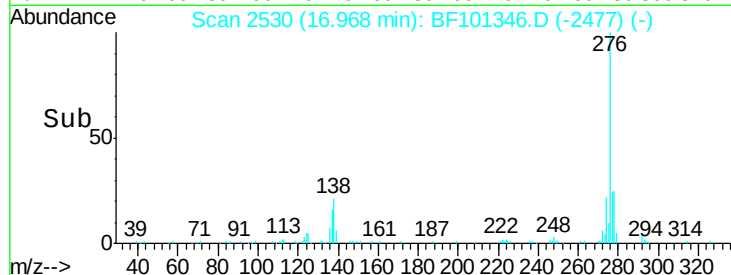
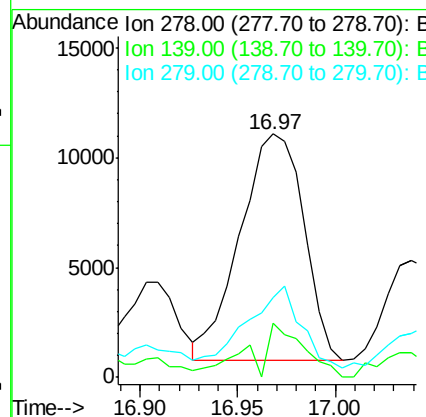
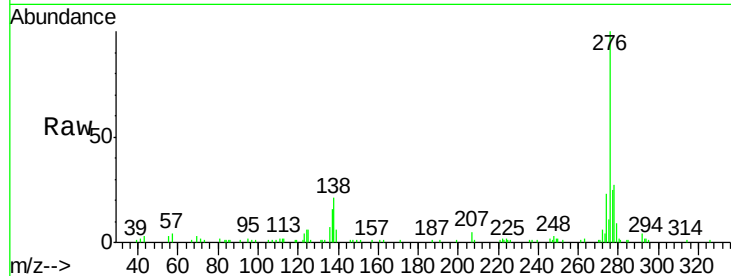
ClientSampled :

SB-6(13-15)

Tot Ion:	278	Resp:	23244
Ion Ratio	Lower	Upper	
278	100		
139	22.1	15.9	23.9
279	32.8	19.0	28.4#

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 18.277 ng

RT: 17.43 min Scan# 2608

Delta R.T. 0.04 min

Lab File: BF101346.D

Acq: 12 Dec 2017 22:41

Tgt Ion:	276	Resp:	71630
Ion Ratio	Lower	Upper	
276	100		
277	23.6	17.9	26.9
138	21.0	21.8	32.8#

