

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083448.D
 Acq On : 3 Dec 2015 7:24
 Operator : UM/IZ
 Sample : G4582-01
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-01(0-4)

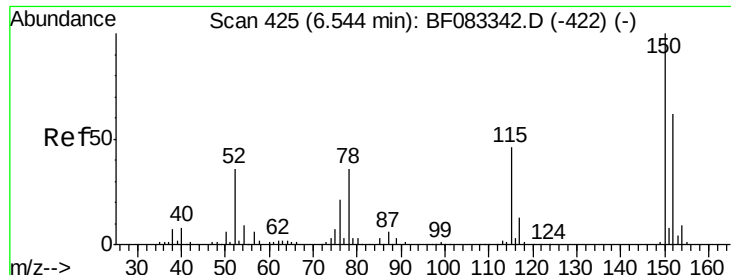
Manual Integrations
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 12/3/2015 7:10:08 PM

Quant Time: Dec 03 10:30:58 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.53	152	147469	20.00	ng	-0.01
21) Naphthalene-d8	7.82	136	576547	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	282679	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	441578	20.00	ng	-0.01
75) Chrysene-d12	14.75	240	348448	20.00	ng	-0.01
86) Perylene-d12	16.82	264	320274	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1419392	144.43	ng	0.00
7) Phenol-d6	6.21	99	1820787	135.36	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1277768	97.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	297885	104.98	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1585604	79.93	ng	-0.01
78) Terphenyl-d14	13.21	244	1130656	77.38	ng	-0.01
Target Compounds						Qvalue
20) 3+4-Methylphenols	7.00	107	32709	2.67	ng	84
31) Naphthalene	7.85	128	469626	15.01	ng	98
37) 2-Methylnaphthalene	8.54	142	102939	4.92	ng	99
48) Acenaphthylene	9.44	152	1088411	36.12	ng	99
49) Dimethylphthalate	9.31	163	375546	16.35	ng	98
51) Acenaphthene	9.61	154	151250	8.53	ng	95
54) Dibenzofuran	9.78	168	68261	2.63	ng	# 92
57) Fluorene	10.12	166	222536	10.85	ng	93
70) Phenanthrene	11.15	178	2165046	82.85	ng	98
71) Anthracene	11.20	178	641627	24.39	ng	98
72) Carbazole	11.39	167	76602	3.24	ng	# 94
74) Fluoranthene	12.66	202	2783221	102.75	ng	99
77) Pyrene	12.98	202	3914874	160.88	ng	95
80) Benzo(a)anthracene	14.74	228	2138814m	100.19	ng	
82) Chrysene	14.80	228	1842559	89.33	ng	99
85) Indeno(1,2,3-cd)pyrene	18.21	276	1592735m	106.03	ng	
87) Benzo(b)fluoranthene	16.32	252	2936418m	142.89	ng	
88) Benzo(k)fluoranthene	16.35	252	659914m	34.01	ng	
89) Benzo(a)pyrene	16.76	252	2541846	144.01	ng	# 96
90) Dibenzo(a,h)anthracene	18.23	278	346873m	22.55	ng	
91) Benzo(g,h,i)perylene	18.60	276	1738123	115.15	ng	98

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



#1

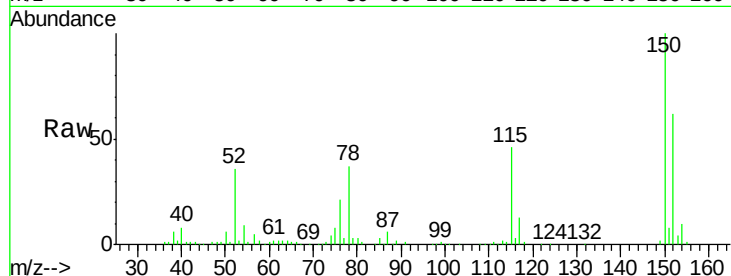
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.53 min Scan# 424
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

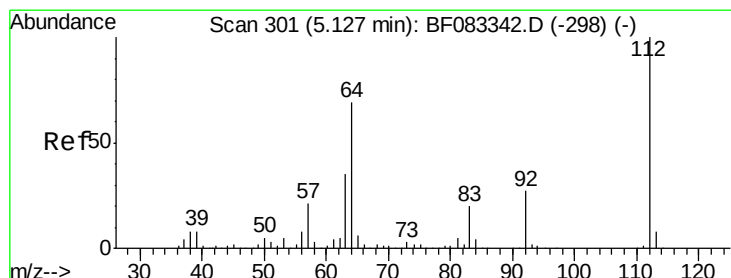
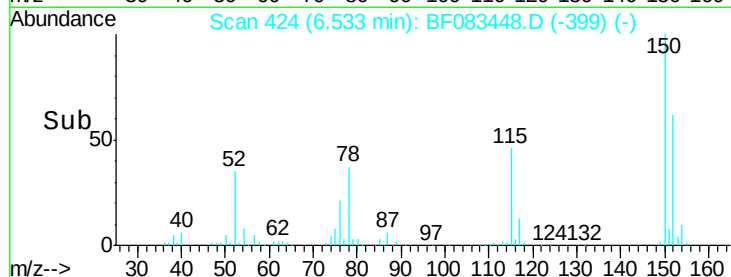
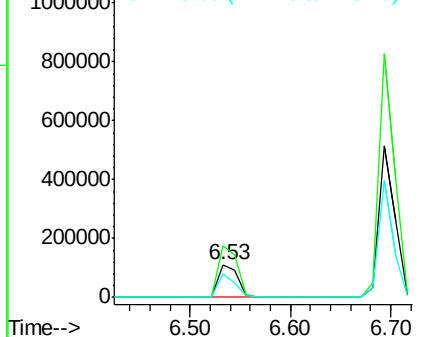
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	129.8	194.8
115	73.7	59.2	88.8

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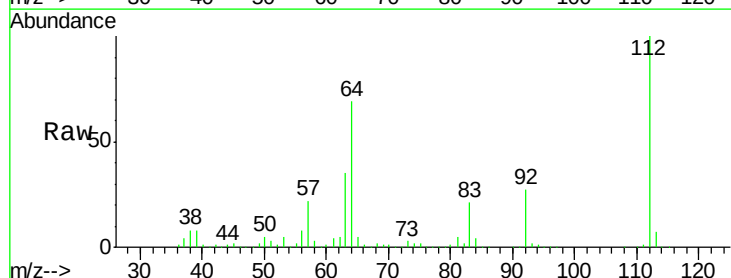
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



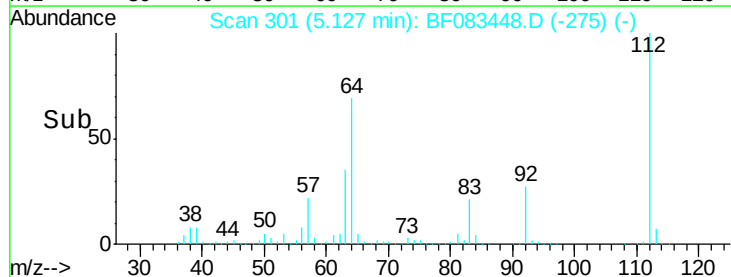
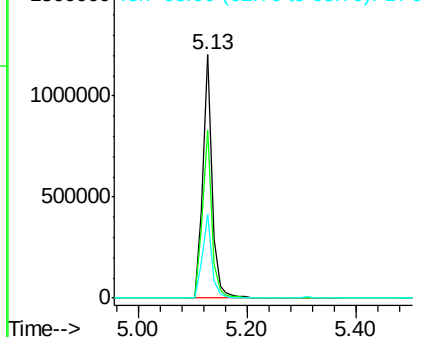
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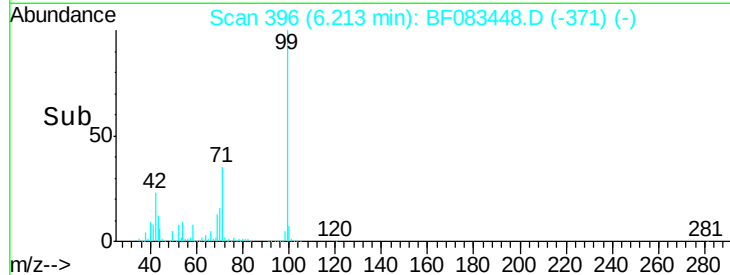
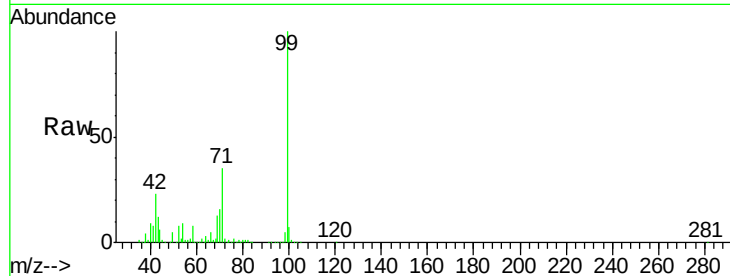
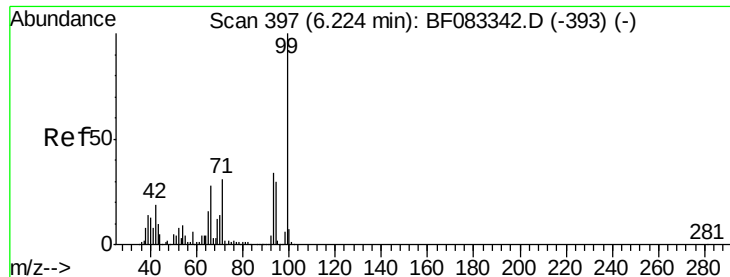
2-Fluorophenol
Concen: 144.43 ng
RT: 5.13 min Scan# 301
Delta R.T. -0.00 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.8	55.6	83.4
63	34.6	28.2	42.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 135.36 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Tot Ion: 99 Resp: 1820787

Ion Ratio Lower Upper

99 100

42 22.6 14.9 22.3#

71 35.4 24.7 37.1

Instrument :

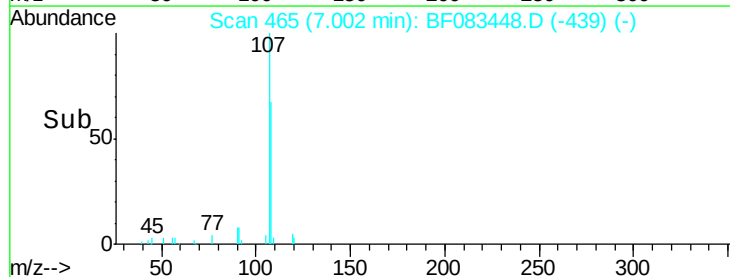
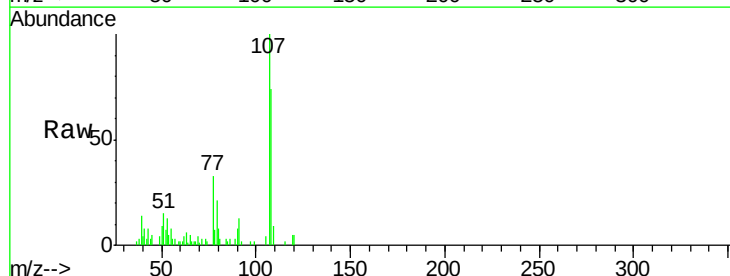
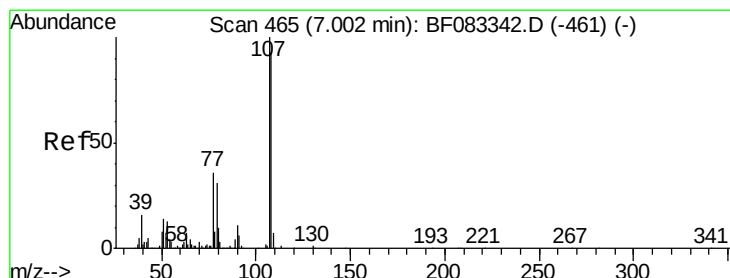
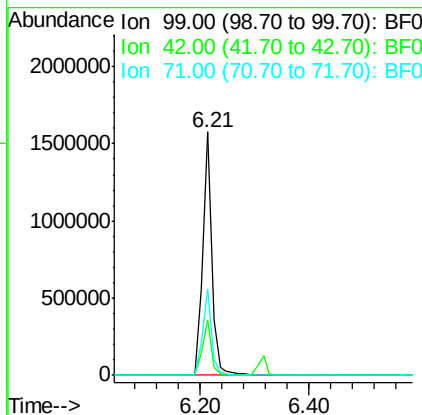
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ClientSampleId :

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#20

3+4-Methylphenols

Concen: 2.67 ng

RT: 7.00 min Scan# 465

Delta R.T. -0.00 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Tgt Ion:107 Resp: 32709

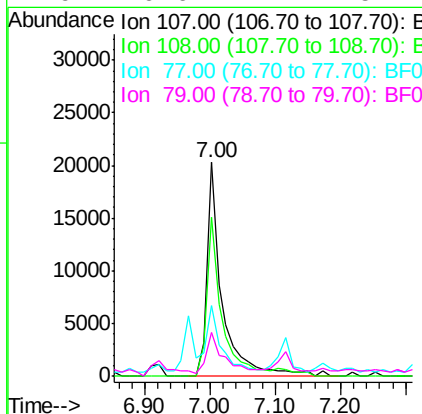
Ion Ratio Lower Upper

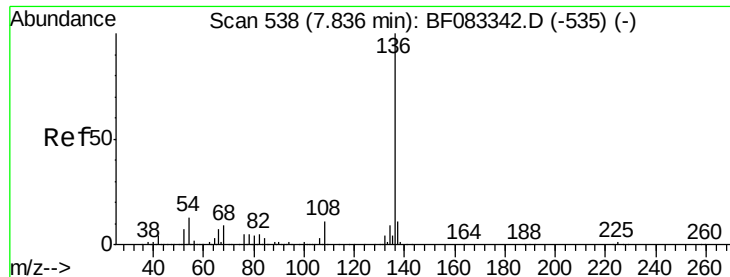
107 100

108 74.4 73.0 113.0

77 32.9 16.8 56.8

79 20.6 11.4 51.4





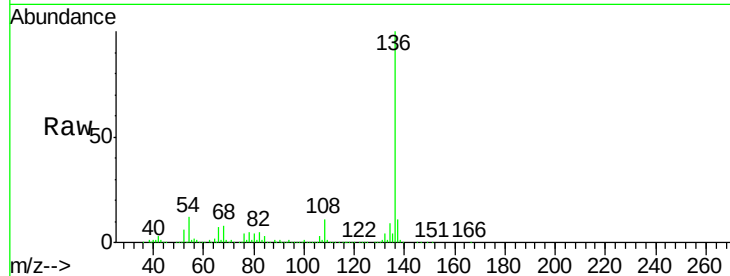
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.82 min Scan# 537
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

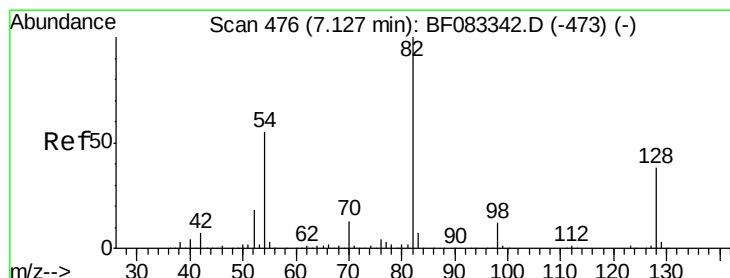
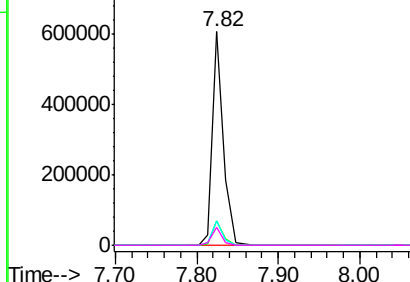
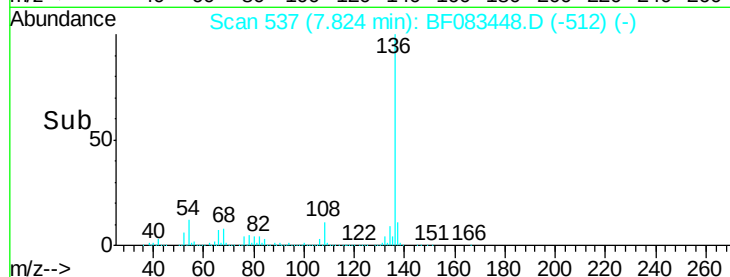
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.3	9.0	13.4	
54	11.7	10.1	15.1	
68	8.3	7.1	10.7	

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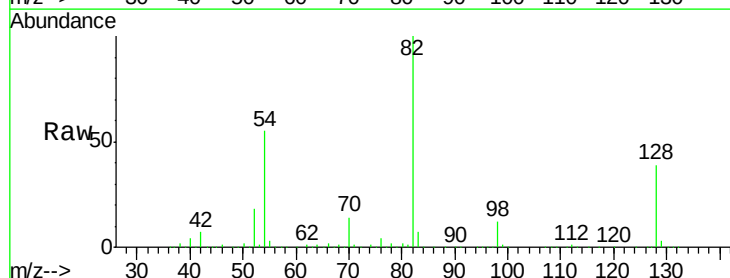


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

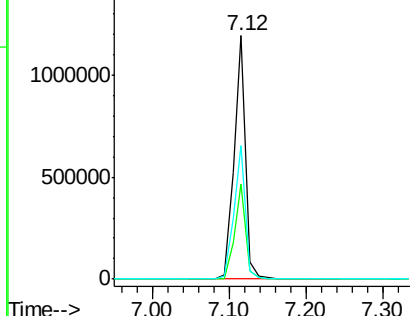
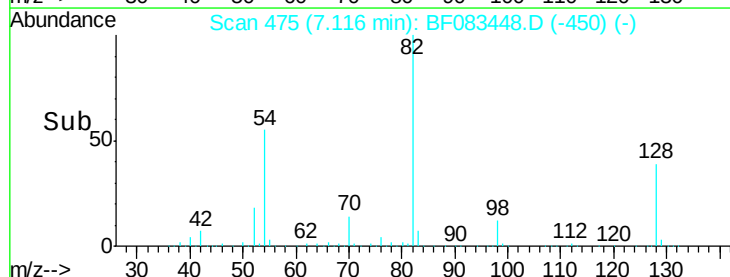


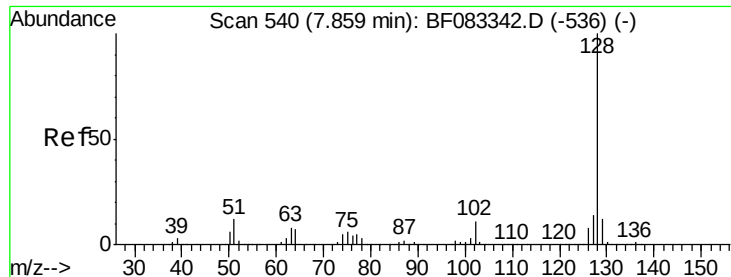
#23
Nitrobenzene-d5
Concen: 97.42 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	38.9	30.6	46.0	
54	54.8	43.8	65.6	



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 15.01 ng

RT: 7.85 min Scan# 539

Delta R.T. -0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

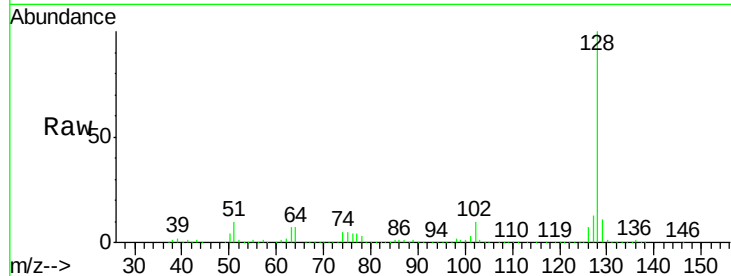
ClientSampleId :

SB-P3WC-01(0-4)

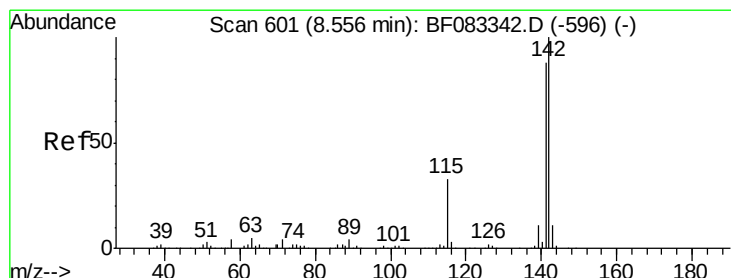
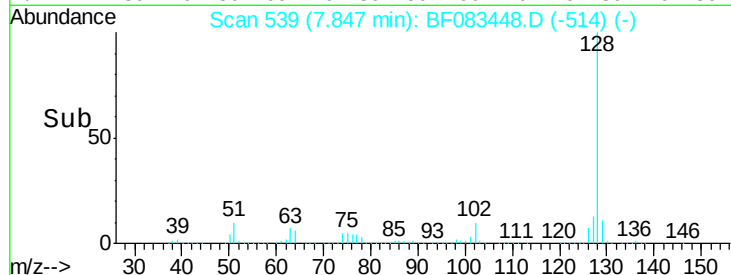
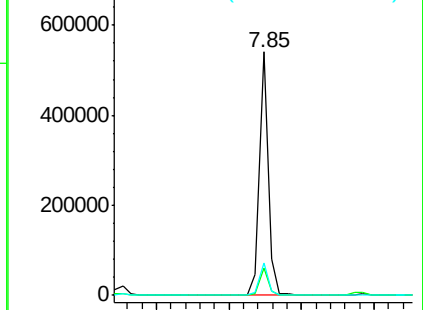
Tot Ion:	128	Resp:	469626
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.7	14.5
127	13.3	11.0	16.4

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 4.92 ng

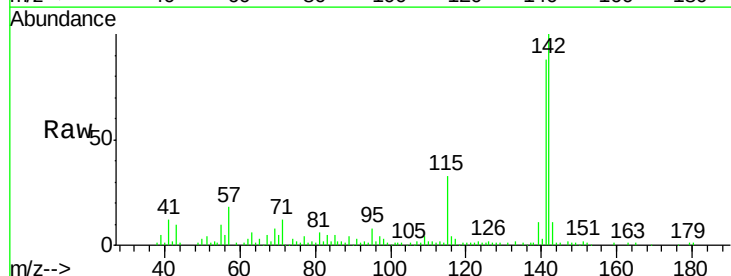
RT: 8.54 min Scan# 600

Delta R.T. -0.01 min

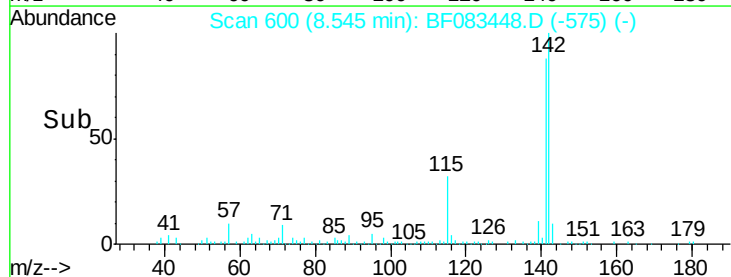
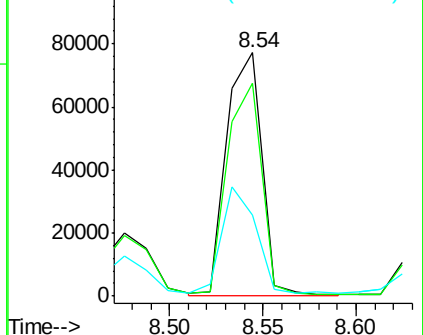
Lab File: BF083448.D

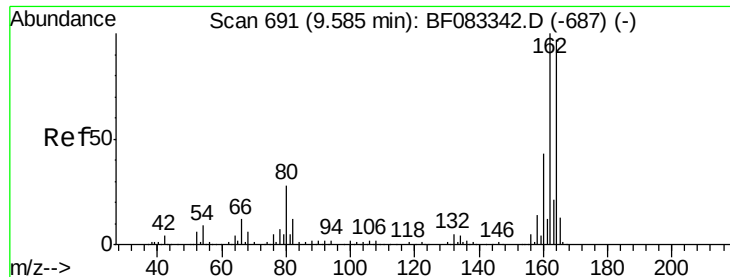
Acq: 3 Dec 2015 7:24

Tgt Ion:	142	Resp:	102939
Ion Ratio	Lower	Upper	
142	100		
141	87.6	70.6	105.8
115	33.2	26.2	39.2



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.57 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

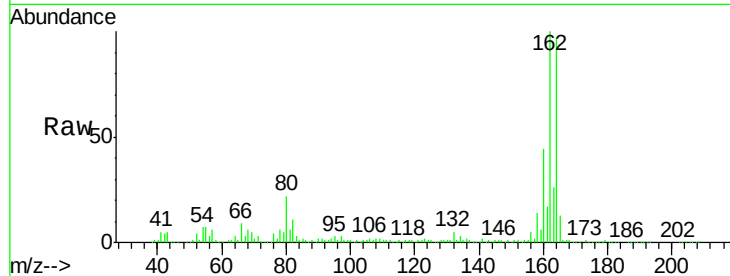
ClientSampleId :

SB-P3WC-01(0-4)

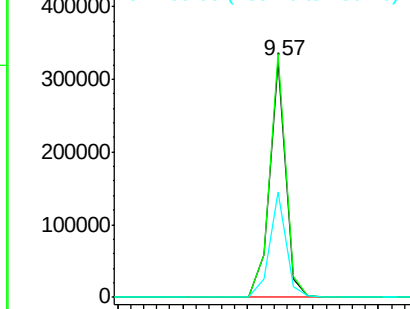
Tot Ion:	164	Resp:	282679
Ion Ratio	Lower	Upper	
164	100		
162	103.1	82.6	123.8
160	44.9	35.3	52.9

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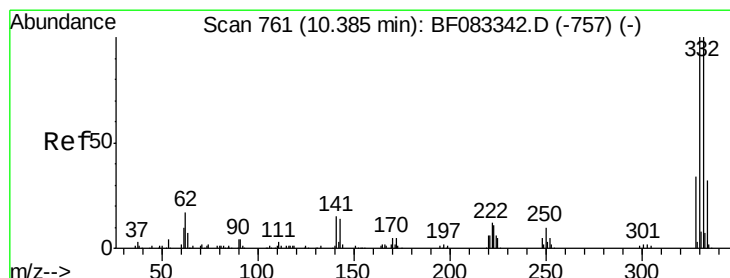
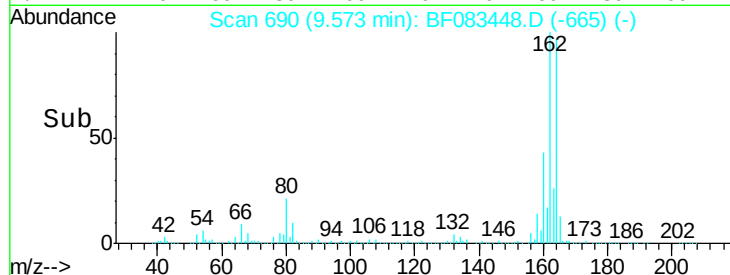
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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



Time--> 9.45 9.50 9.55 9.60 9.65



#41

2,4,6-Tribromophenol

Concen: 104.98 ng

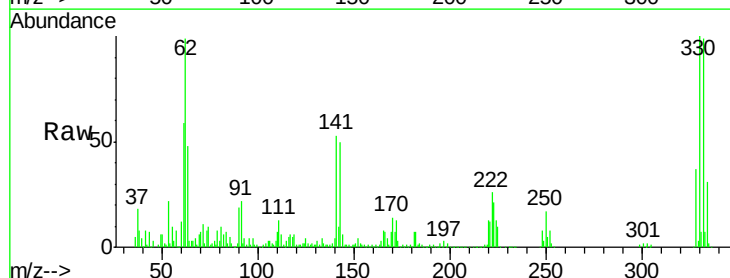
RT: 10.36 min Scan# 759

Delta R.T. -0.02 min

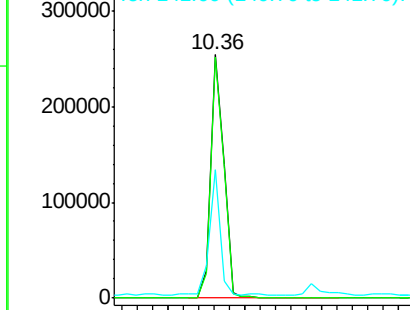
Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

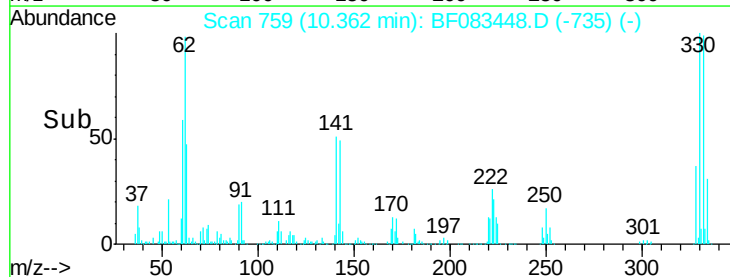
Tgt Ion:	330	Resp:	297885
Ion Ratio	Lower	Upper	
330	100		
332	97.8	77.8	116.6
141	42.8	29.4	44.0

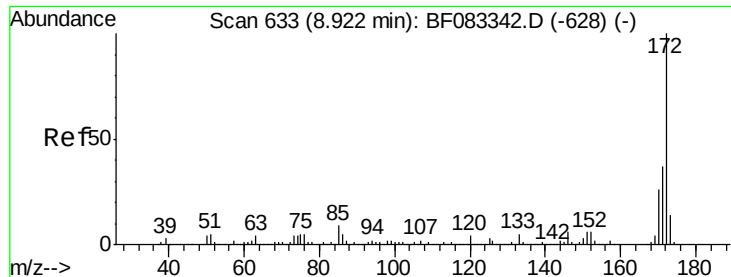


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



Time--> 10.30 10.40 10.50





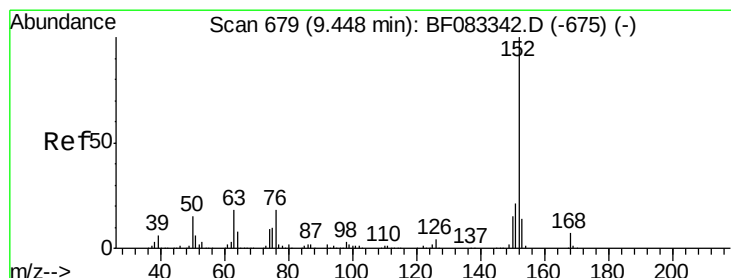
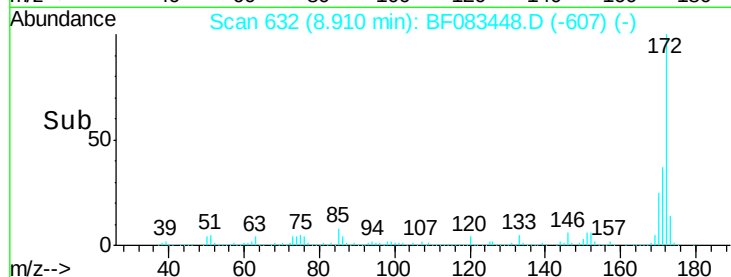
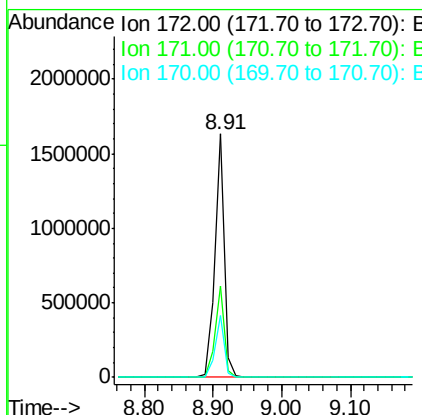
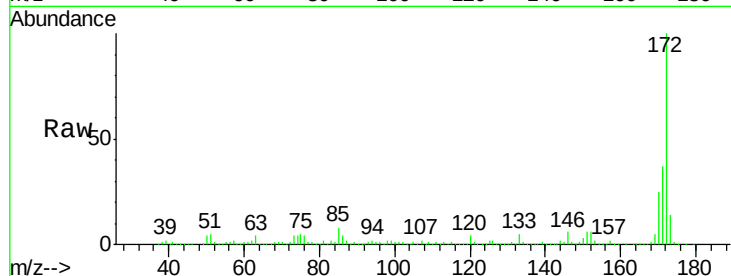
#44
2-Fluorobiphenyl
Concen: 79.93 ng
RT: 8.91 min Scan# 632
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

Tot Ion:172 Resp: 1585604
Ion Ratio Lower Upper
172 100
171 37.3 29.4 44.0
170 25.5 20.4 30.6

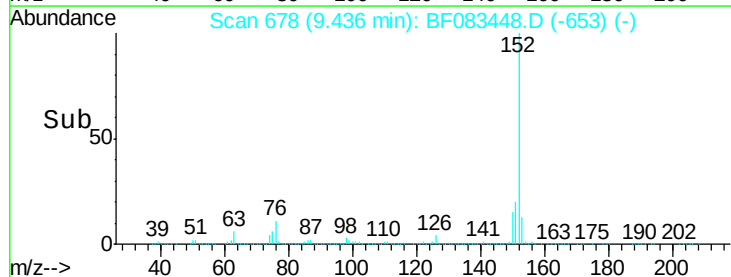
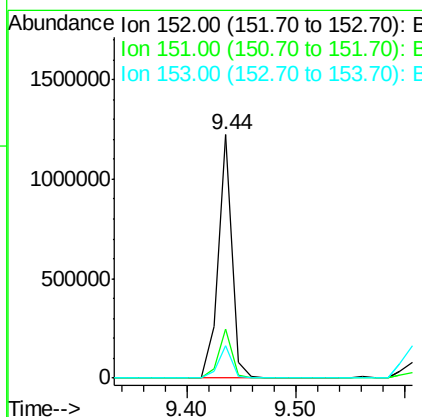
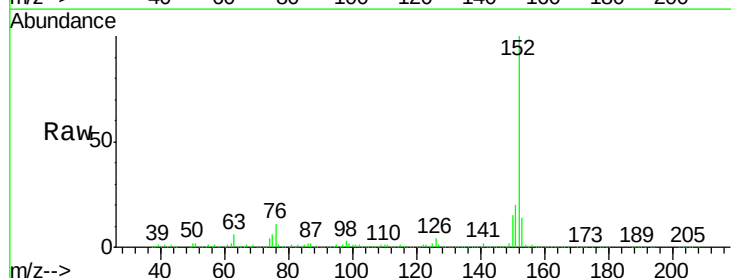
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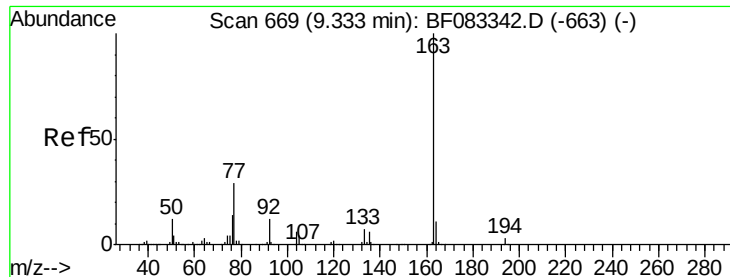
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#48
Acenaphthylene
Concen: 36.12 ng
RT: 9.44 min Scan# 678
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion:152 Resp: 1088411
Ion Ratio Lower Upper
152 100
151 20.4 16.7 25.1
153 13.6 11.2 16.8





#49

Dimethylphthalate

Concen: 16.35 ng

RT: 9.31 min Scan# 667

Delta R.T. -0.02 min

Lab File: BF083448.D

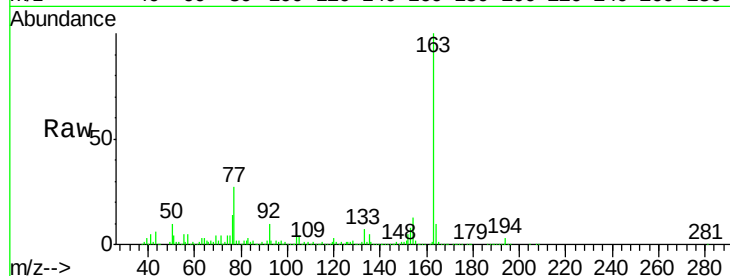
Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

ClientSampleId :

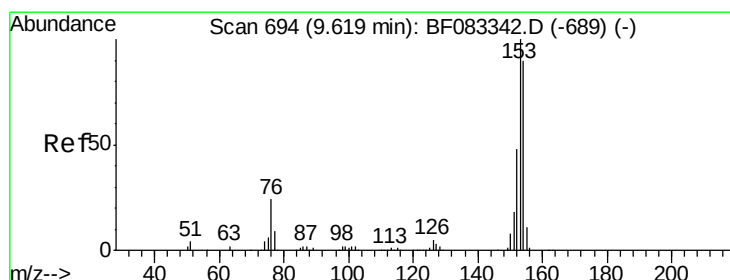
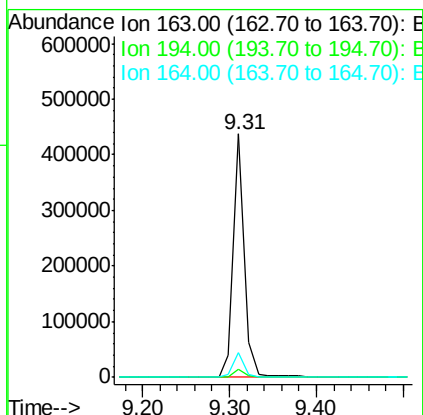
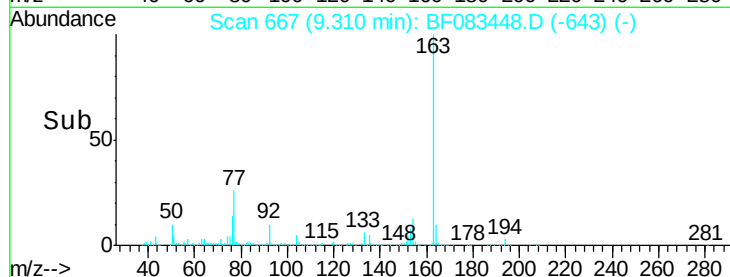
SB-P3WC-01(0-4)



Tot Ion:	163	Resp:	375546
Ion Ratio		Lower	Upper
163	100		
194	3.2	2.7	4.1
164	10.2	8.8	13.2

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#51

Acenaphthene

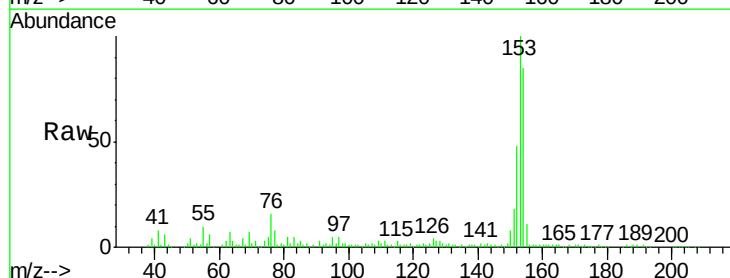
Concen: 8.53 ng

RT: 9.61 min Scan# 693

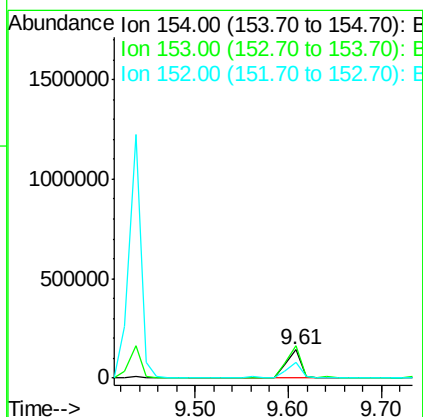
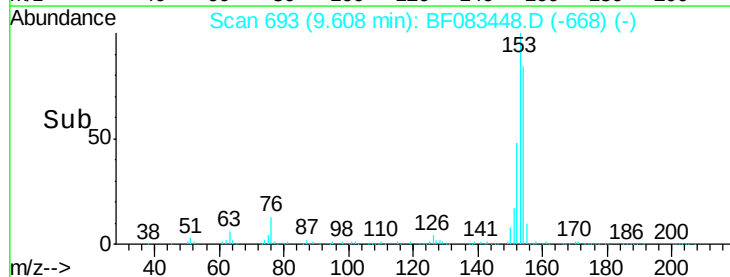
Delta R.T. -0.01 min

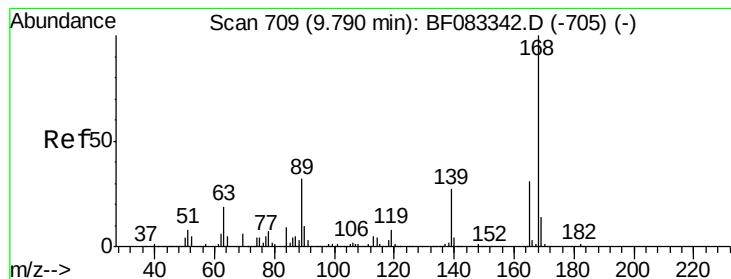
Lab File: BF083448.D

Acq: 3 Dec 2015 7:24



Tgt Ion:	154	Resp:	151250
Ion Ratio		Lower	Upper
154	100		
153	117.3	89.3	133.9
152	56.9	42.5	63.7





#54

Dibenzofuran

Concen: 2.63 ng

RT: 9.78 min Scan# 708

Delta R.T. -0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

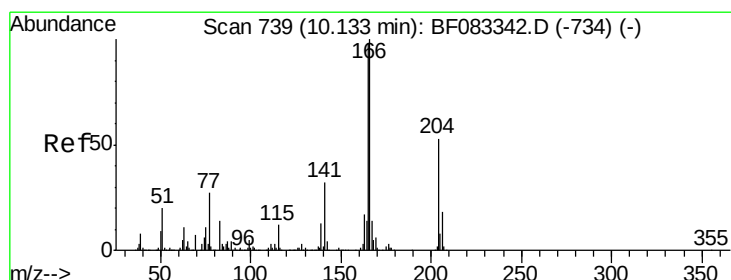
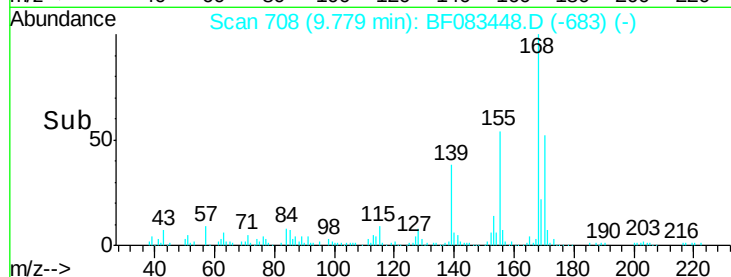
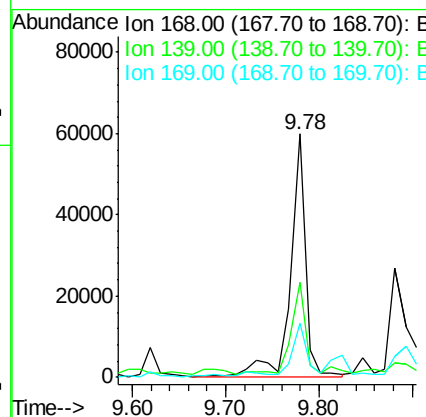
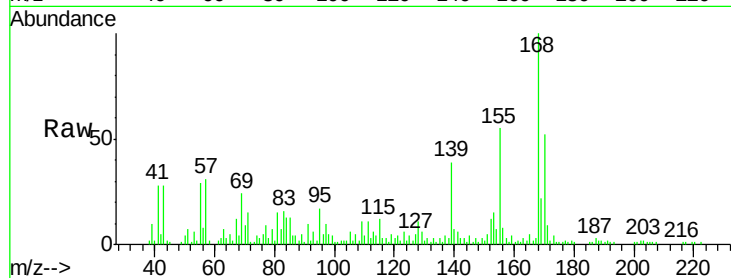
ClientSampleId :

SB-P3WC-01(0-4)

Tot Ion:	168	Resp:	68261
Ion Ratio	Lower	Upper	
168	100		
139	38.9	32.7	49.1
169	22.2	11.1	16.7#

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#57

Fluorene

Concen: 10.85 ng

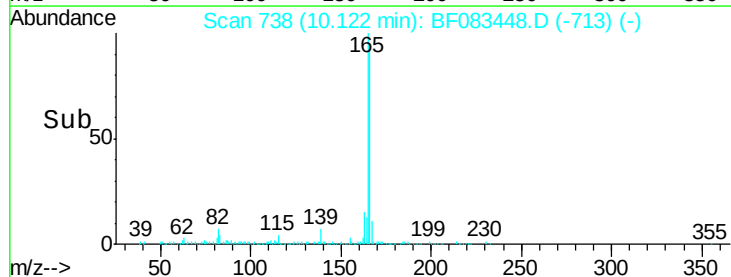
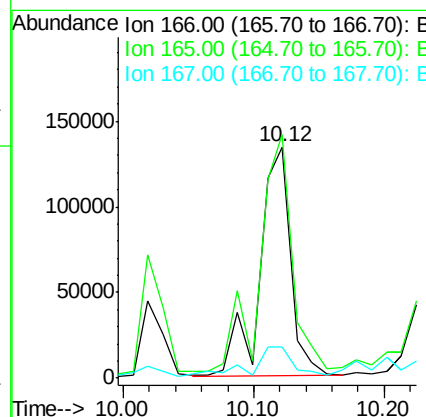
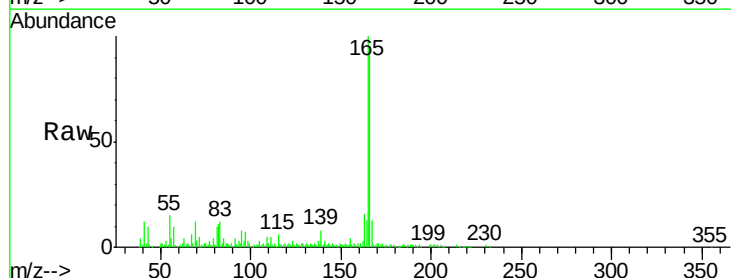
RT: 10.12 min Scan# 738

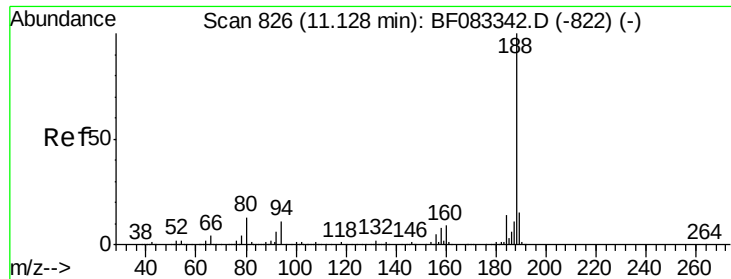
Delta R.T. -0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Tgt Ion:	166	Resp:	222536
Ion Ratio	Lower	Upper	
166	100		
165	105.4	78.3	117.5
167	13.5	11.1	16.7





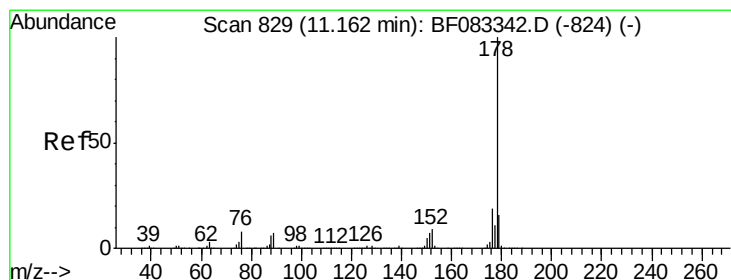
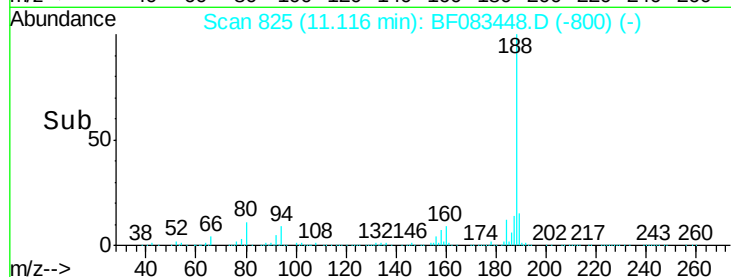
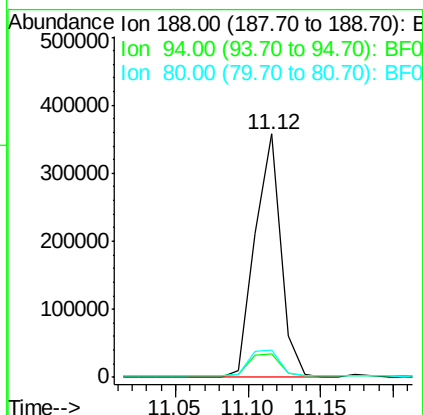
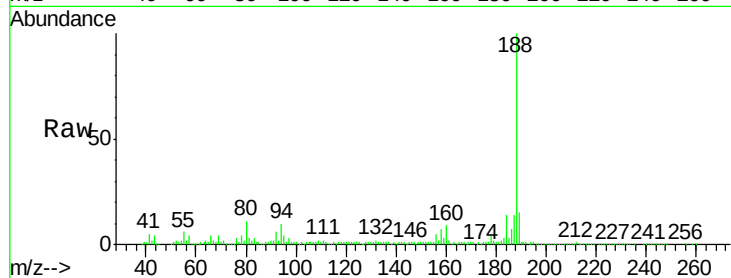
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	441578		
94	9.9	8.7	13.1	
80	11.0	10.3	15.5	

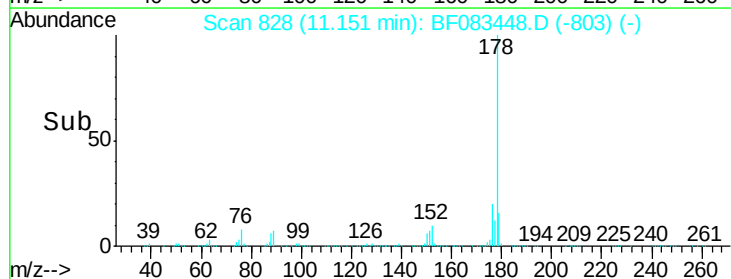
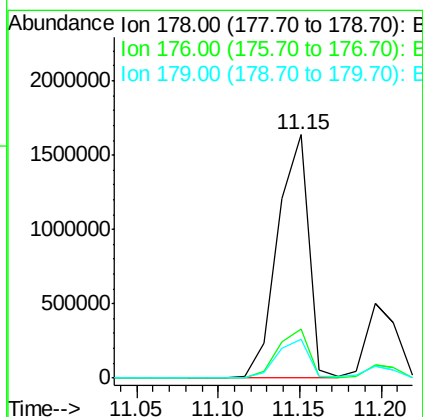
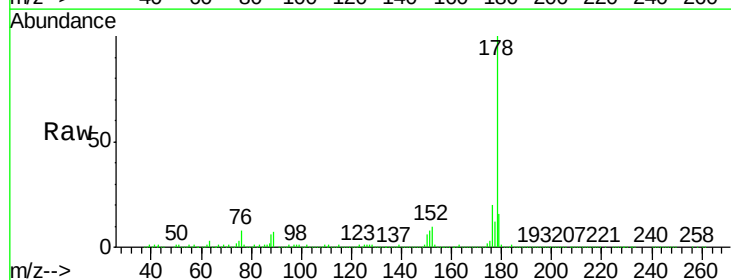
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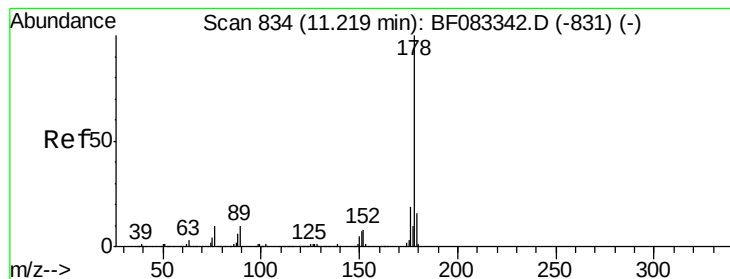
Mmdadoda
12/3/2015 7:10:08 PM



#70
Phenanthrene
Concen: 82.85 ng
RT: 11.15 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2165046		
176	20.2	15.3	22.9	
179	16.0	12.4	18.6	





#71

Anthracene

Concen: 24.39 ng

RT: 11.20 min Scan# 832

Delta R.T. -0.02 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

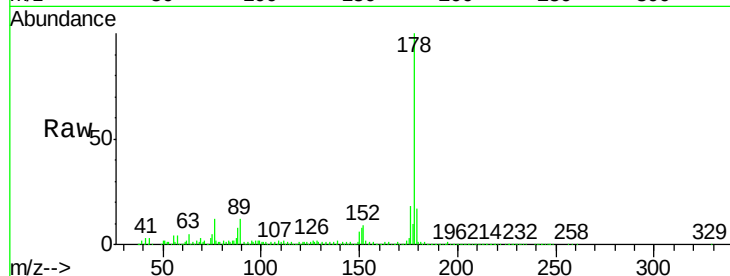
ClientSampleId :

SB-P3WC-01(0-4)

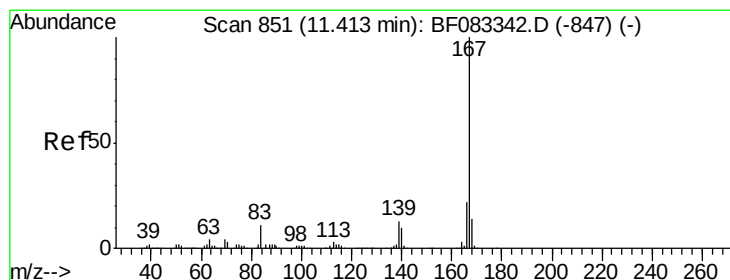
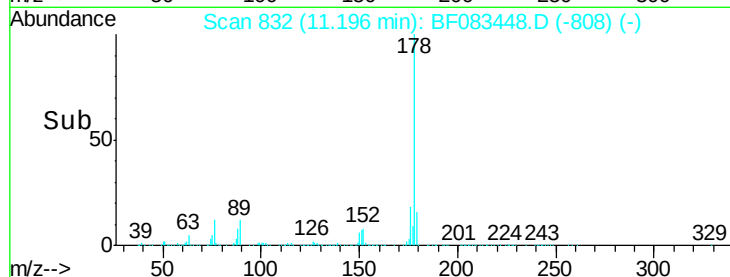
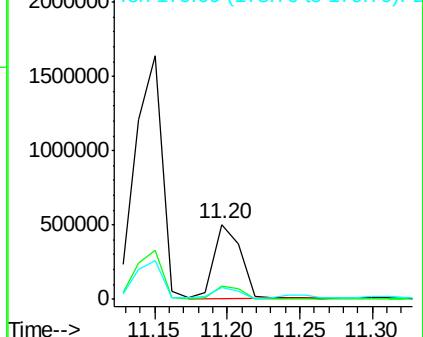
Tot Ion:	178	Resp:	641627
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.6	23.4
179	16.6	12.8	19.2

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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



#72

Carbazole

Concen: 3.24 ng

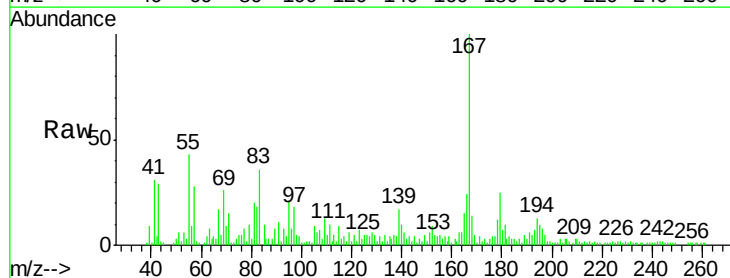
RT: 11.39 min Scan# 849

Delta R.T. -0.02 min

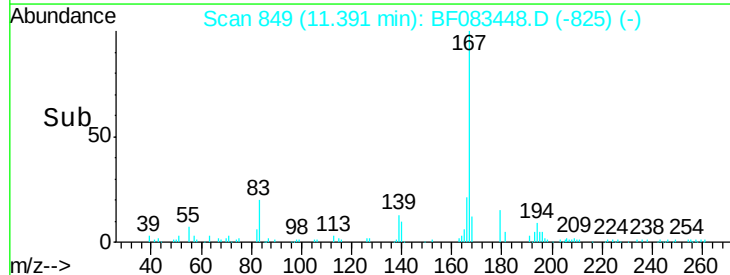
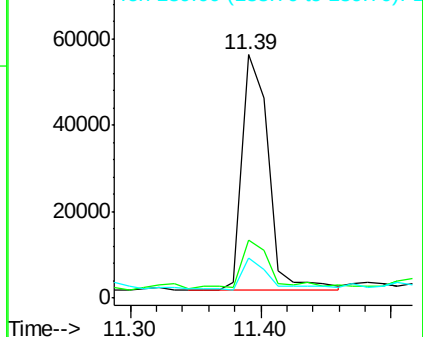
Lab File: BF083448.D

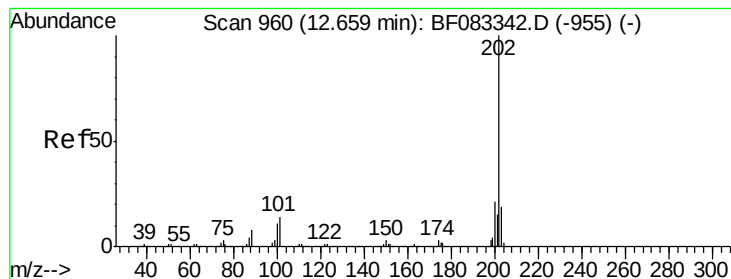
Acq: 3 Dec 2015 7:24

Tgt Ion:	167	Resp:	76602
Ion Ratio	Lower	Upper	
167	100		
166	23.8	17.4	26.0
139	16.6	10.5	15.7#



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





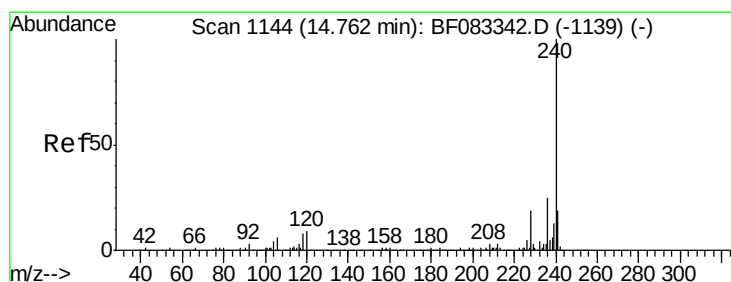
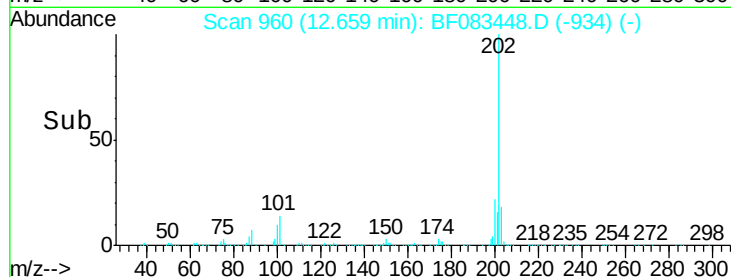
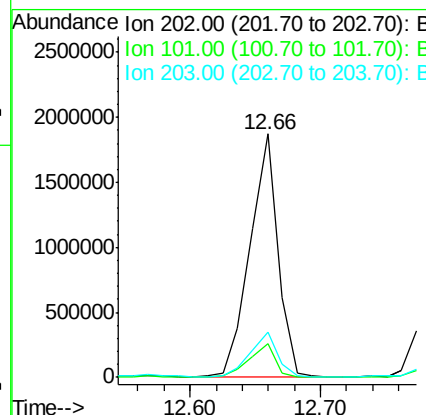
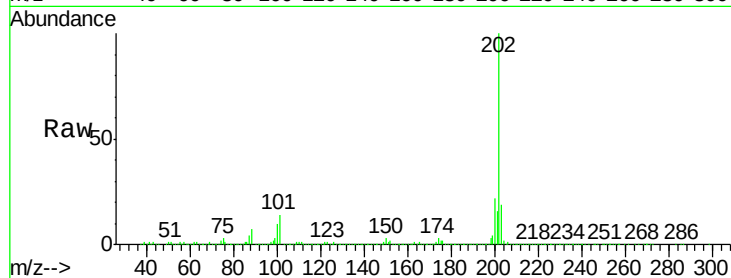
#74
 Fluoranthene
 Concen: 102.75 ng
 RT: 12.66 min Scan# 960
 Delta R.T. -0.00 min
 Lab File: BF083448.D
 Acq: 3 Dec 2015 7:24

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-01(0-4)

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.1	0.0	34.5
203	18.5	0.0	38.7

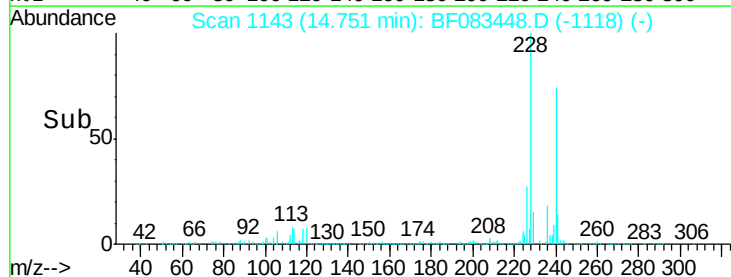
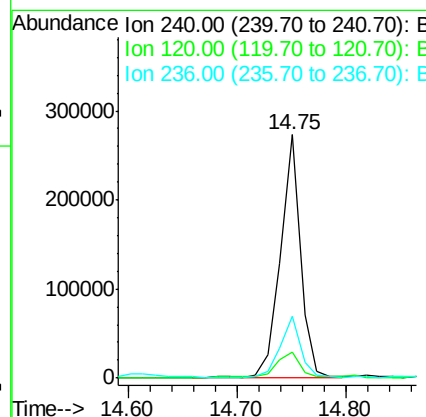
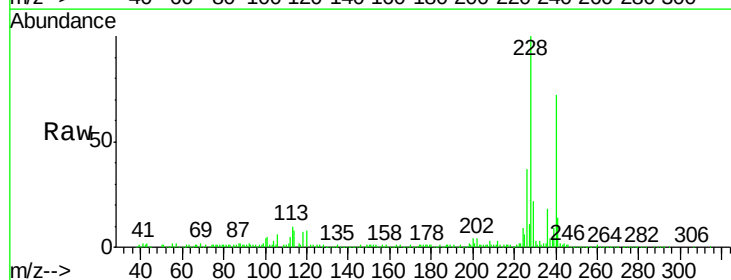
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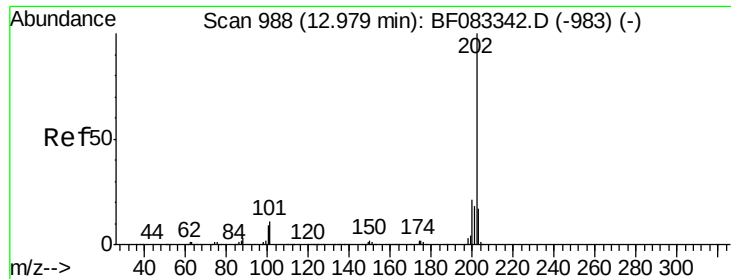
Mmdadoda
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.75 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: BF083448.D
 Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.7	6.9	10.3#
236	25.5	19.8	29.6





#77

Pvrene

Concen: 160.88 ng

RT: 12.98 min Scan# 988

Delta R.T. -0.00 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

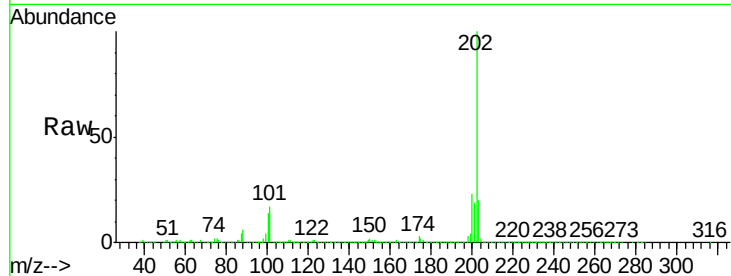
ClientSampleId :

SB-P3WC-01(0-4)

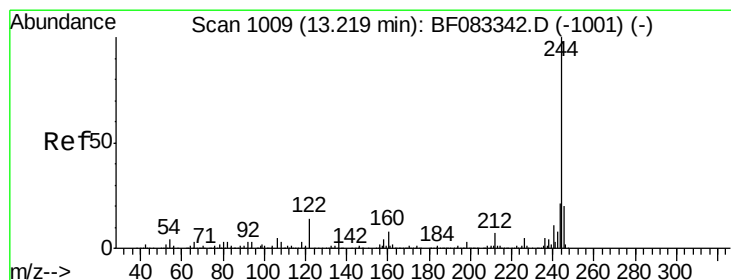
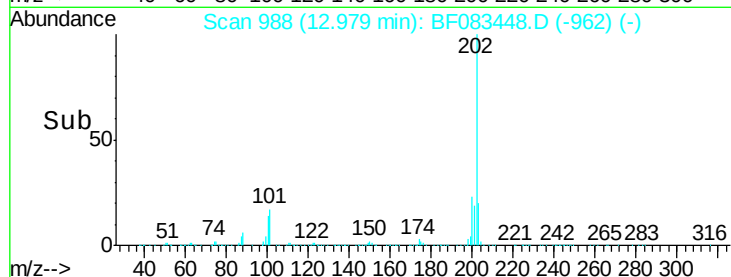
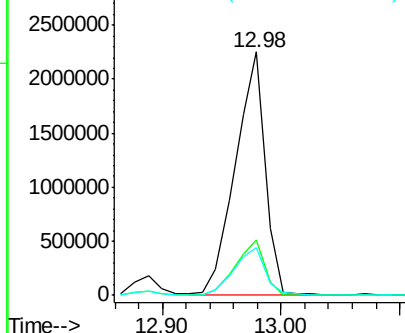
Tot Ion:	202	Resp:	3914874
Ion	Ratio	Lower	Upper
202	100		
200	23.0	16.9	25.3
203	19.7	13.9	20.9

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 77.38 ng

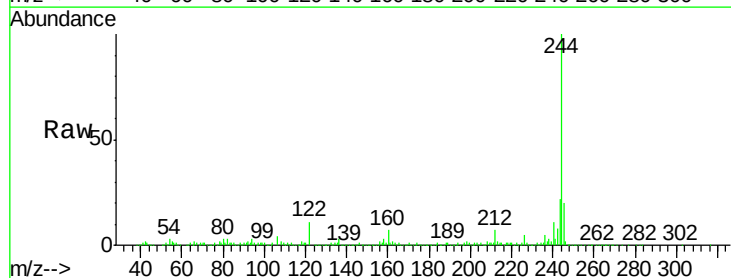
RT: 13.21 min Scan# 1008

Delta R.T. -0.01 min

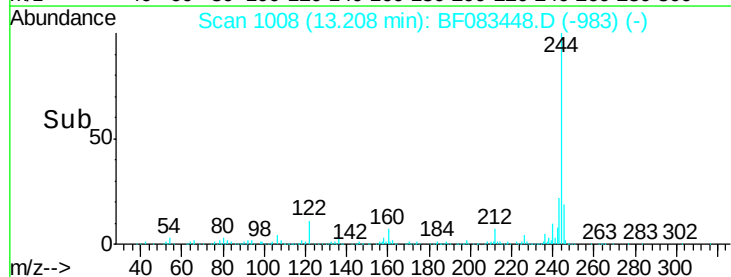
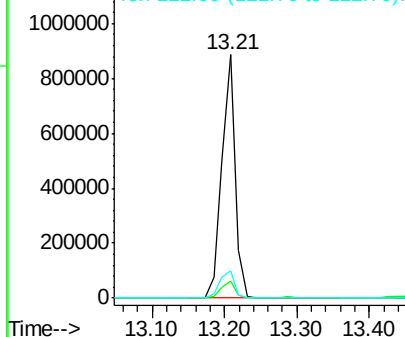
Lab File: BF083448.D

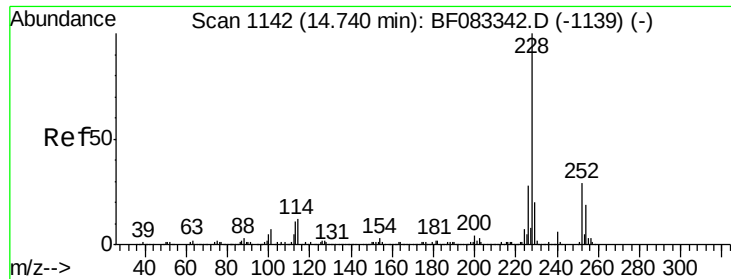
Acq: 3 Dec 2015 7:24

Tgt Ion:	244	Resp:	1130656
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	11.5	11.0	16.4



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





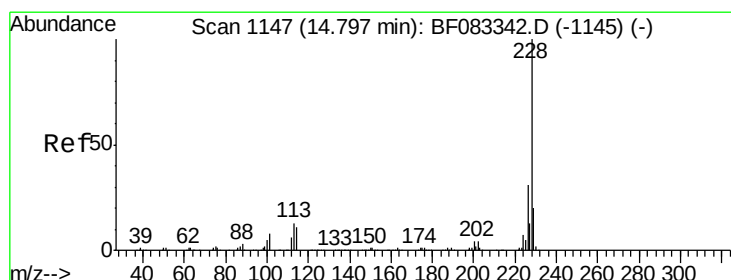
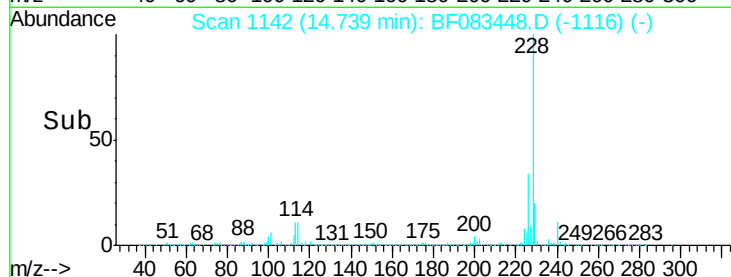
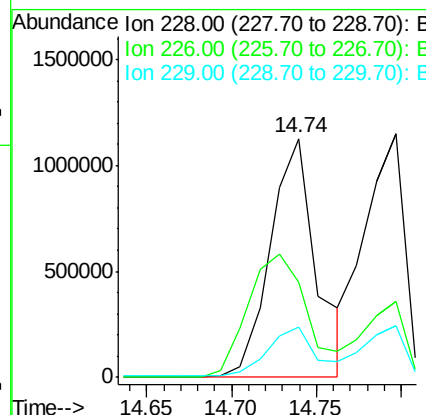
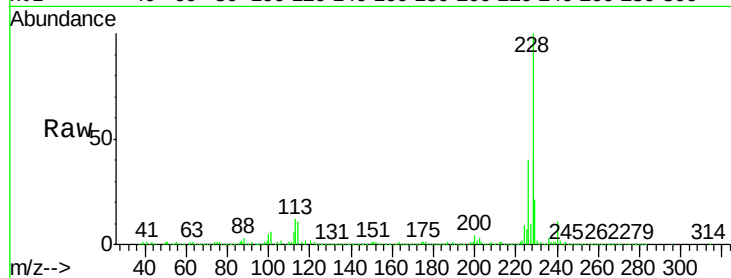
#80
Benzo(a)anthracene
Concen: 100.19 ng/mL
RT: 14.74 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

Tot Ion:228 Resp: 2138814
Ion Ratio Lower Upper
228 100
226 39.7 22.2 33.4#
229 20.8 16.1 24.1

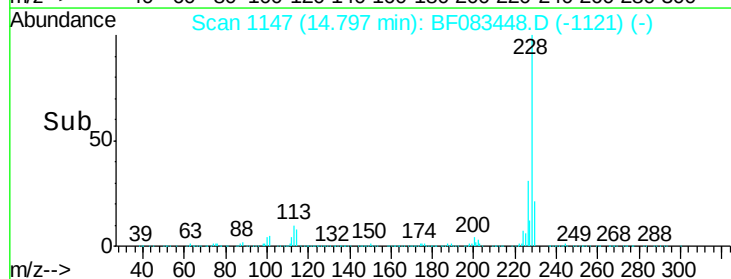
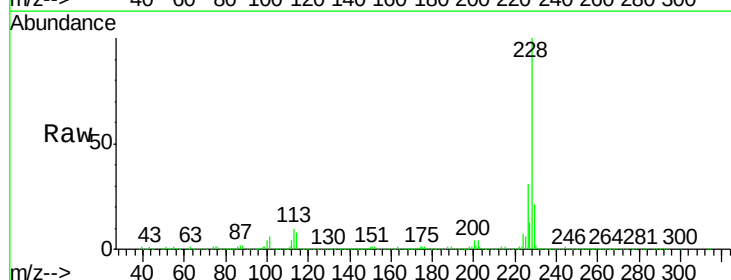
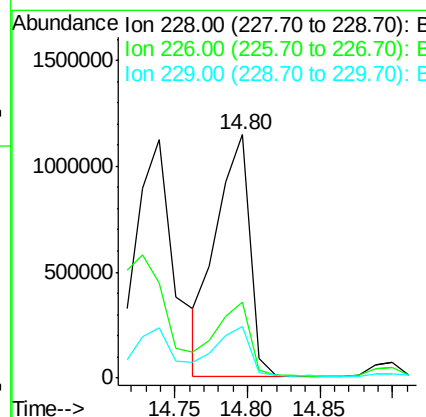
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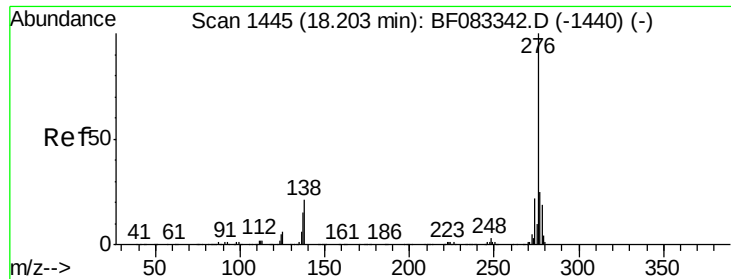
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#82
Chrysene
Concen: 89.33 ng/mL
RT: 14.80 min Scan# 1147
Delta R.T. -0.00 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion:228 Resp: 1842559
Ion Ratio Lower Upper
228 100
226 31.0 24.6 37.0
229 21.2 16.2 24.2





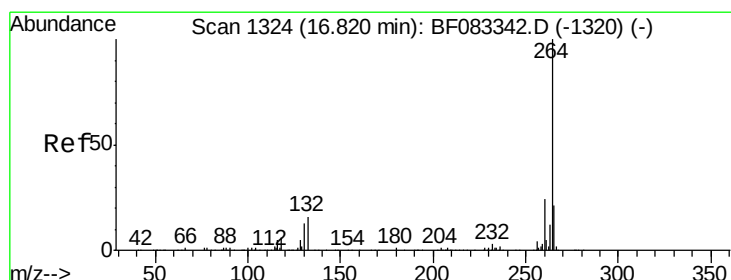
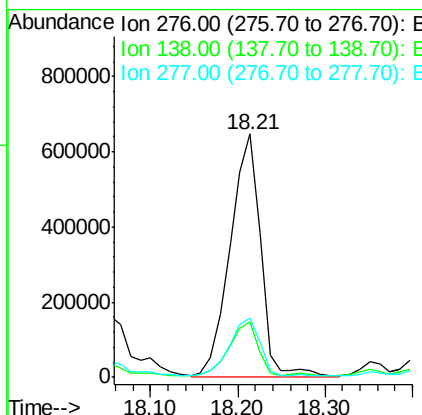
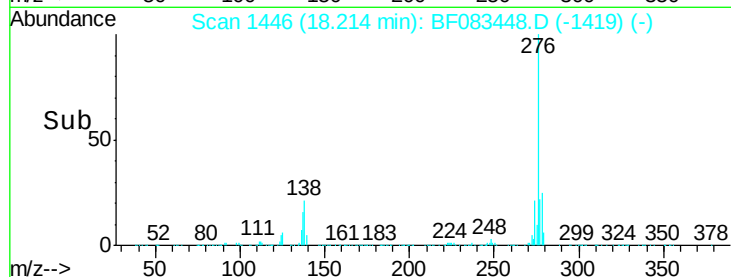
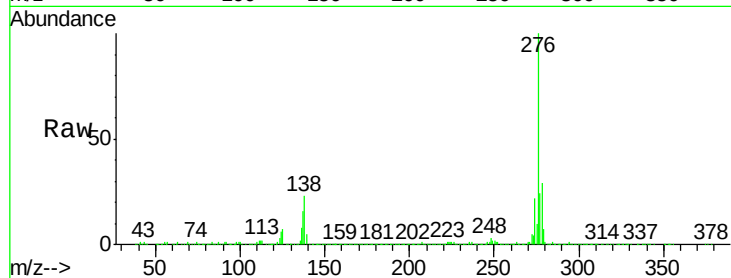
#85
Indeno(1,2,3-cd)pyrene
Concen: 106.03 ng/mL
RT: 18.21 min Scan# 1446
Delta R.T. 0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

Tot Ion	Ratio	Lower	Upper
276	100		
138	5.4	21.2	31.8#
277	6.4	20.0	30.0#

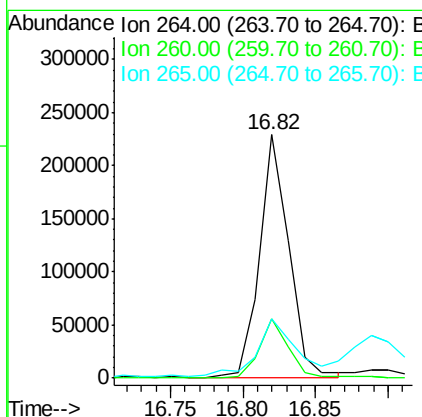
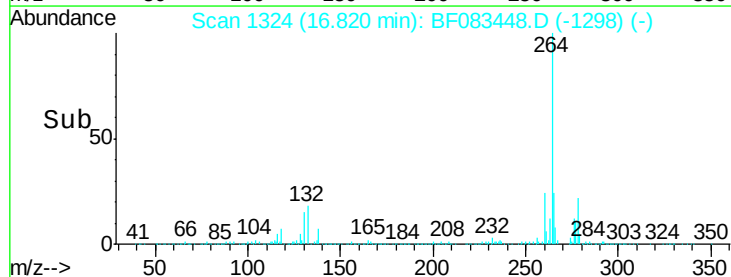
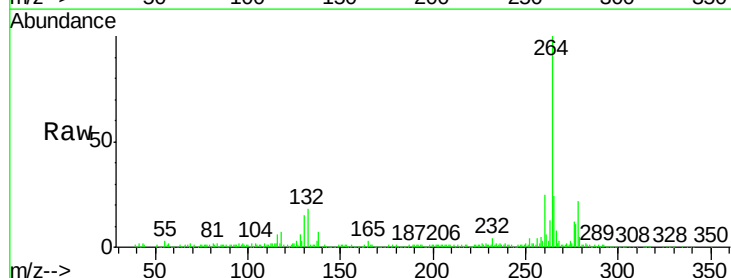
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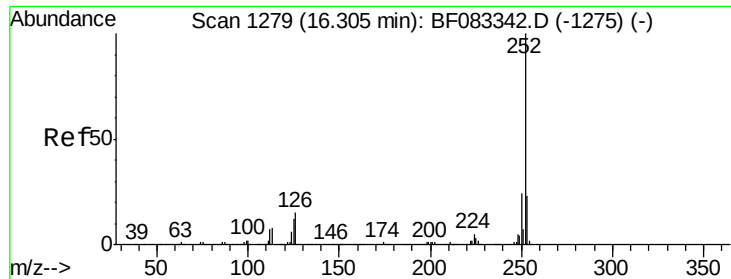
Mmdadoda
12/3/2015 7:10:08 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.82 min Scan# 1324
Delta R.T. -0.00 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.0	28.4
265	24.2	16.8	25.2





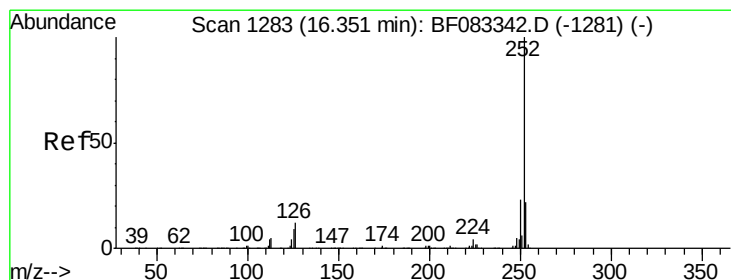
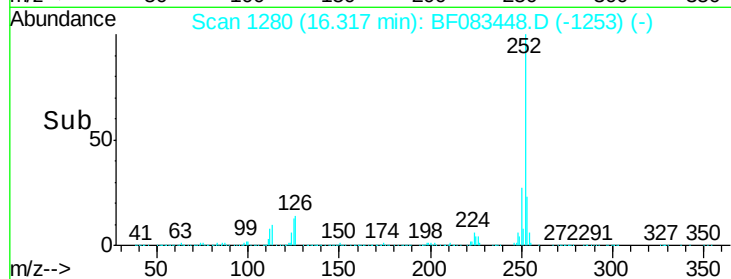
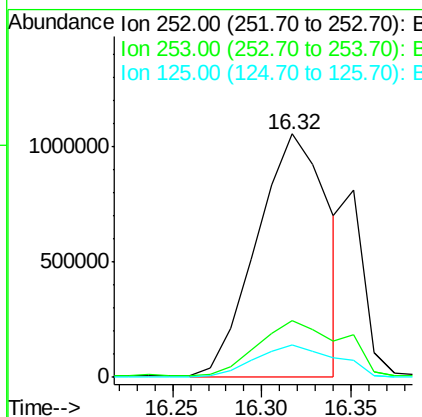
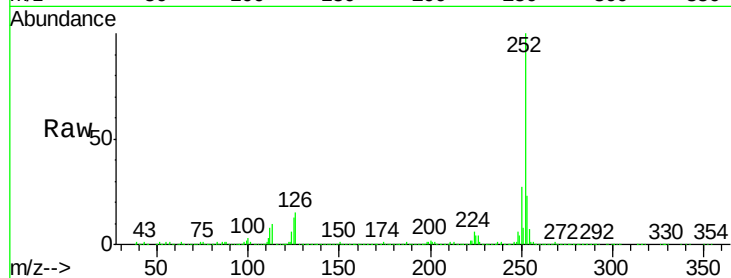
#87
Benzo(b)fluoranthene
Concen: 142.89 ng m
RT: 16.32 min Scan# 1280
Delta R.T. 0.01 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	13.1	9.6	14.4

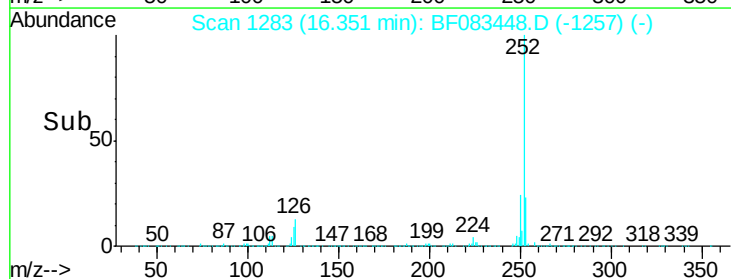
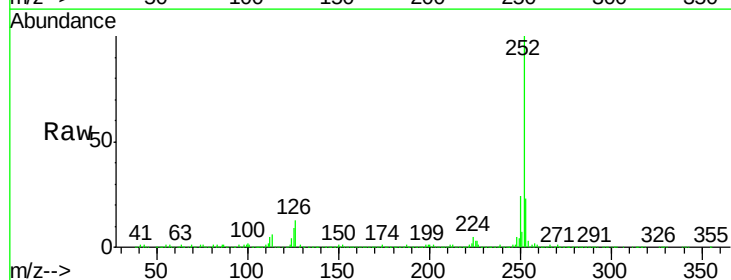
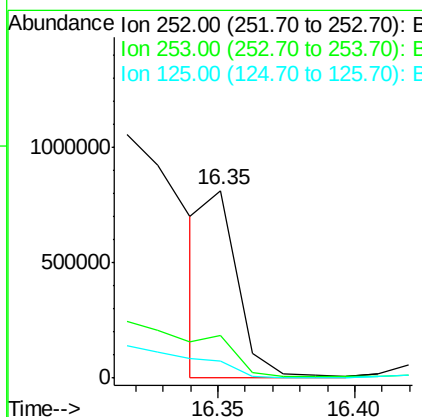
Manual Integrations
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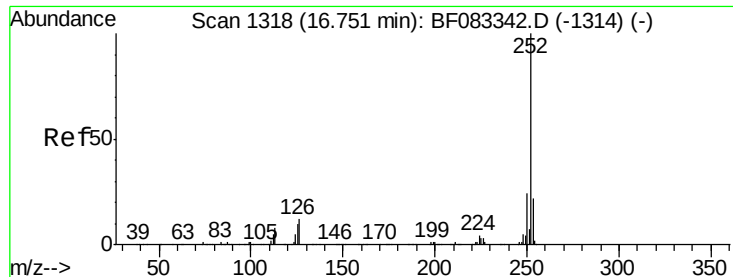
Mmdadoda
12/3/2015 7:10:08 PM



#88
Benzo(k)fluoranthene
Concen: 34.01 ng m
RT: 16.35 min Scan# 1283
Delta R.T. -0.00 min
Lab File: BF083448.D
Acq: 3 Dec 2015 7:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	9.2	7.5	11.3





#89

Benzo(a)pyrene

Concen: 144.01 ng

RT: 16.76 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-01(0-4)

Tot Ion:252 Resp: 2541846

Ion Ratio Lower Upper

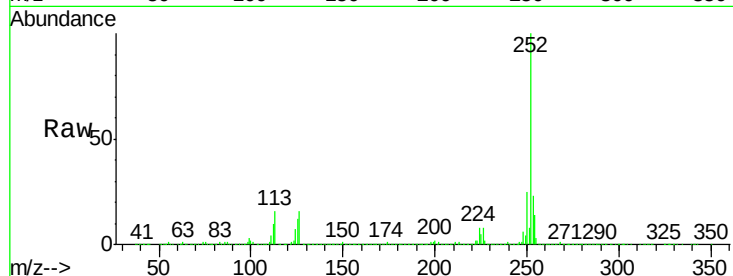
252 100

253 23.0 17.5 26.3

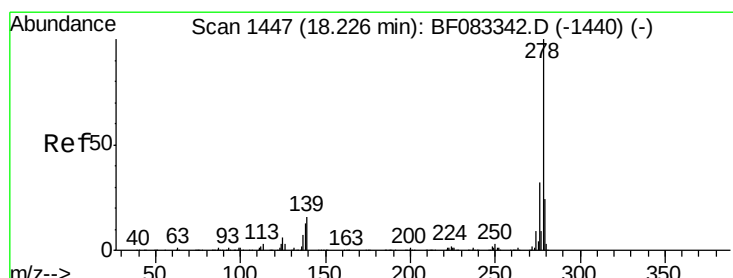
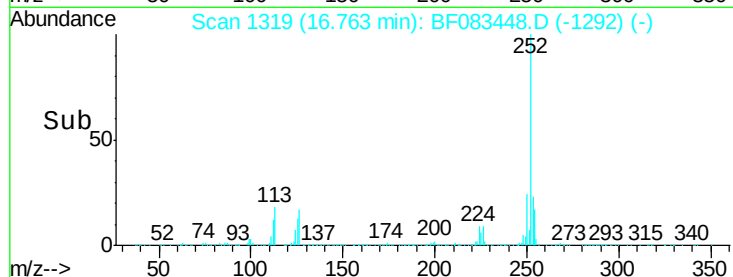
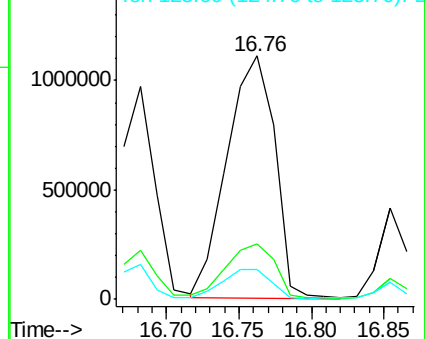
125 12.5 7.8 11.8#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 22.55 ng m

RT: 18.23 min Scan# 1447

Delta R.T. -0.00 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

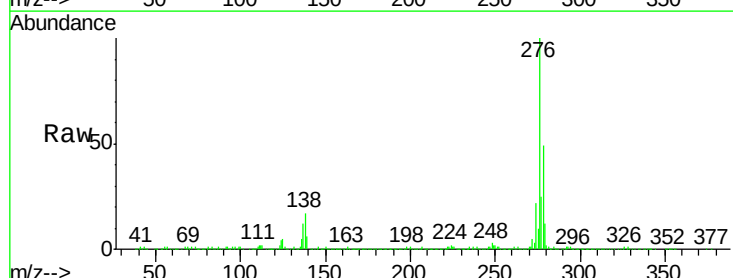
Tgt Ion:278 Resp: 346873

Ion Ratio Lower Upper

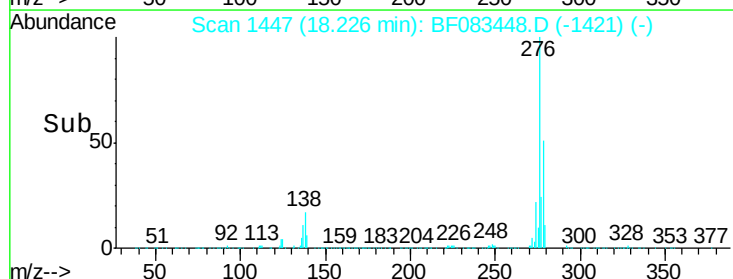
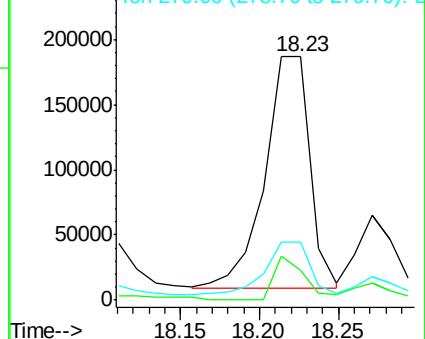
278 100

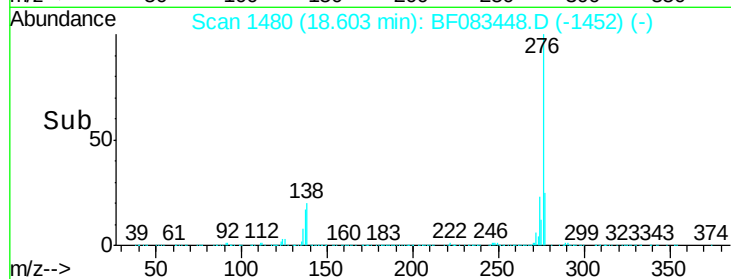
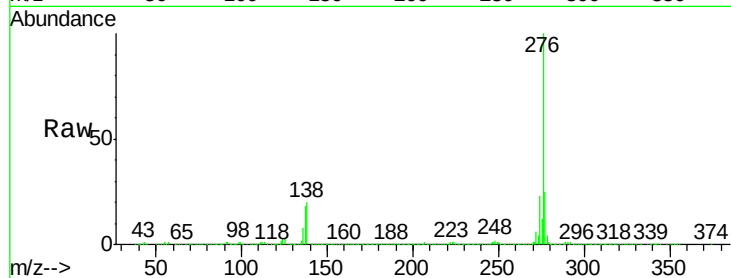
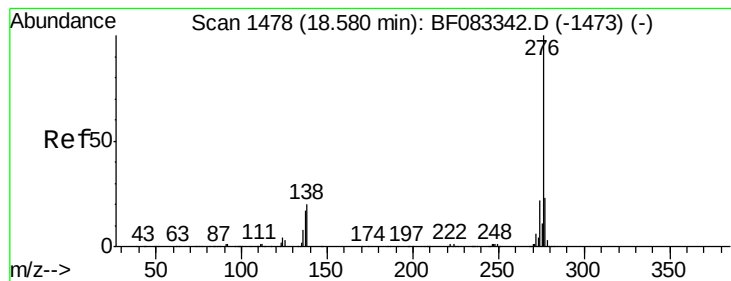
139 12.3 13.1 19.7#

279 23.7 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 115.15 ng

RT: 18.60 min Scan# 1480

Delta R.T. 0.02 min

Lab File: BF083448.D

Acq: 3 Dec 2015 7:24

Tot Ion: 276 Resp: 1738123

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 20.2 16.1 24.1

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-01(0-4)

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