

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083439.D
 Acq On : 3 Dec 2015 2:49
 Operator : UM/IZ
 Sample : G4582-15
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(8-14)

Manual Integrations
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 12/3/2015 7:09:56 PM

Quant Time: Dec 03 06:53:03 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	6.54	152	144238m	20.00	ng	0.00
21) Naphthalene-d8	7.84	136	528113	20.00	ng	0.00
38) Acenaphthene-d10	9.57	164	272932	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	487935	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	333436	20.00	ng	-0.02
86) Perylene-d12	16.80	264	337682	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1351549	140.61	ng	0.00
7) Phenol-d6	6.21	99	1864624	141.72	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1281857	106.70	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	362075	132.15	ng	-0.01
44) 2-Fluorobiphenyl	8.91	172	1635702	85.40	ng	-0.01
78) Terphenyl-d14	13.21	244	1460634	104.47	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.22	94	46994	2.97	ng	77
31) Naphthalene	7.87	128	9273480	323.63	ng	# 88
37) 2-Methylnaphthalene	8.54	142	1788396m	93.39	ng	
45) 1,1'-Biphenyl	9.00	154	702316	29.34	ng	94
48) Acenaphthylene	9.44	152	298597	10.26	ng	# 95
49) Dimethylphthalate	9.31	163	337292	15.21	ng	99
51) Acenaphthene	9.62	154	2197702	128.43	ng	98
54) Dibenzofuran	9.78	168	172297m	6.87	ng	
57) Fluorene	10.12	166	1056082m	53.33	ng	
70) Phenanthrene	11.16	178	4826786	167.16	ng	93
71) Anthracene	11.21	178	1665871	57.31	ng	99
74) Fluoranthene	12.66	202	2500605	83.54	ng	98
77) Pvrene	12.98	202	3572795	153.43	ng	97
80) Benzo(a)anthracene	14.73	228	1152682m	56.43	ng	
82) Chrysene	14.77	228	933667	47.31	ng	99
85) Indeno(1,2,3-cd)pyrene	18.18	276	492825	34.28	ng	96
87) Benzo(b)fluoranthene	16.29	252	1037802m	47.90	ng	
88) Benzo(k)fluoranthene	16.32	252	206341m	10.09	ng	
89) Benzo(a)pvrene	16.73	252	1081198	58.10	ng	# 98
90) Dibenzo(a,h)anthracene	18.19	278	123364	7.61	ng	100
91) Benzo(q,h,i)perylene	18.56	276	571562	35.91	ng	98

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

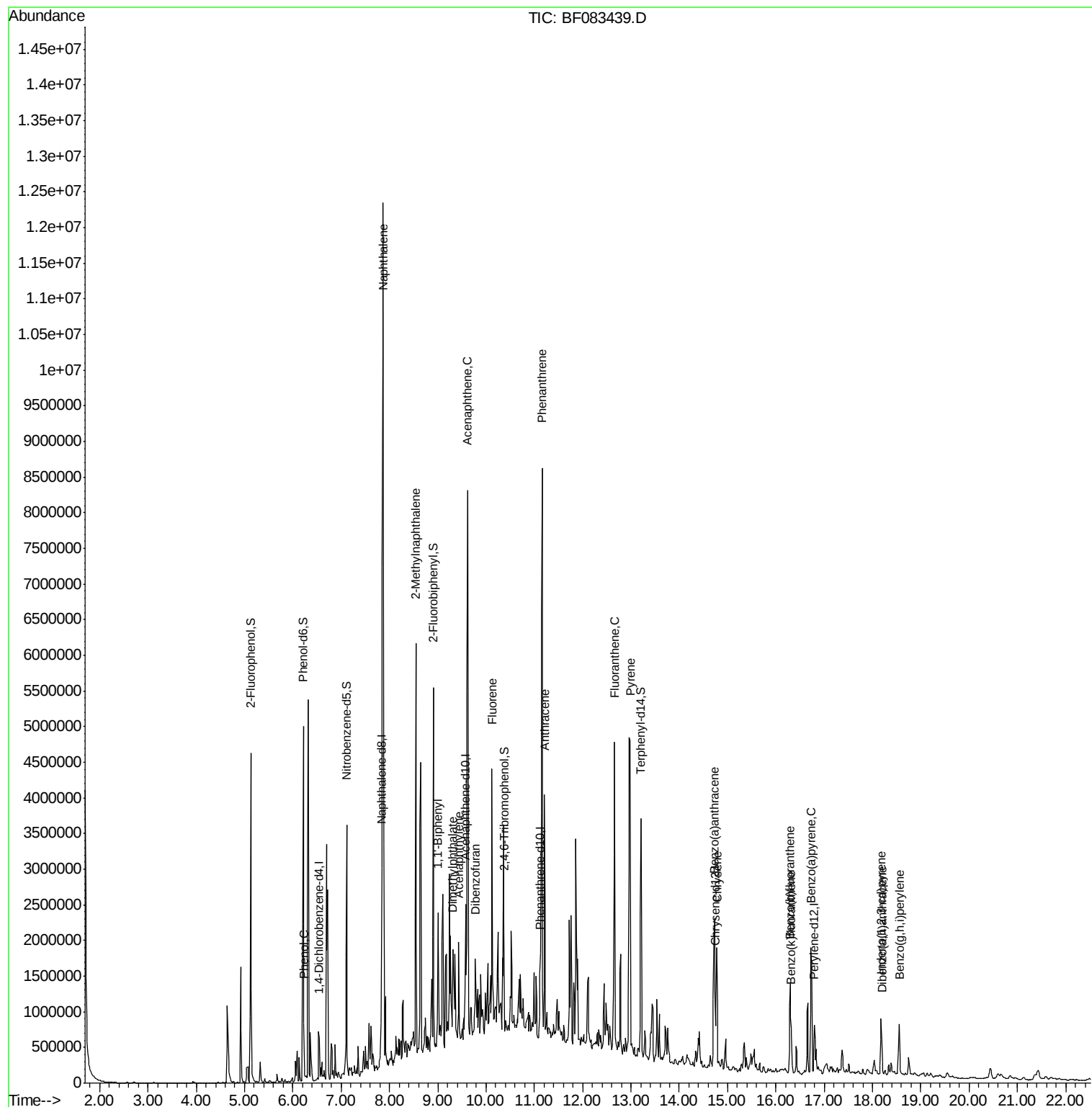
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#1

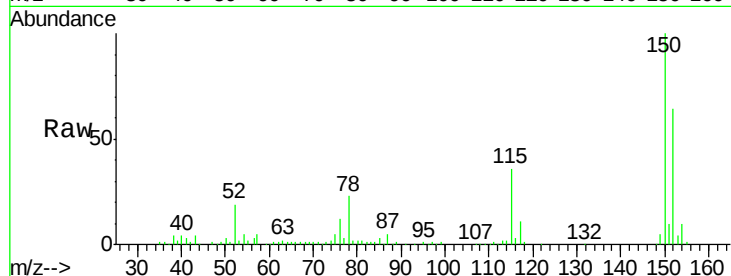
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.54 min Scan# 425
Delta R.T. -0.00 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	129.8	194.8
115	56.4	59.2	88.8

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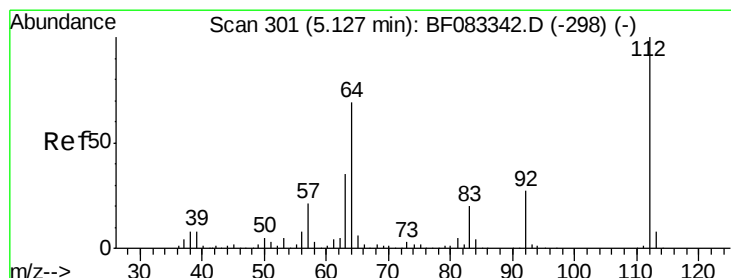
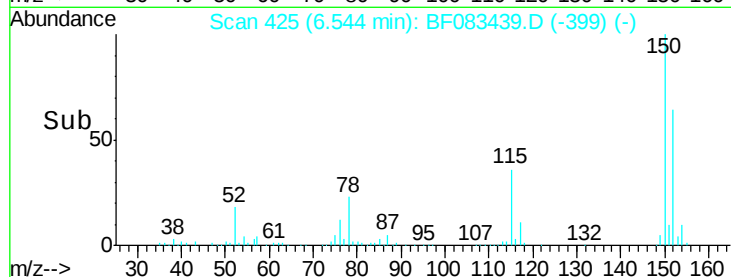
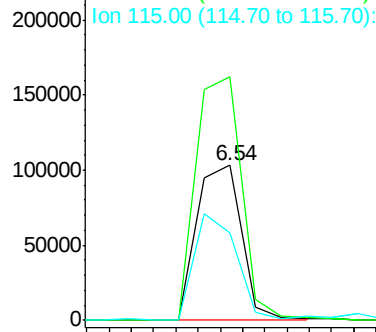


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

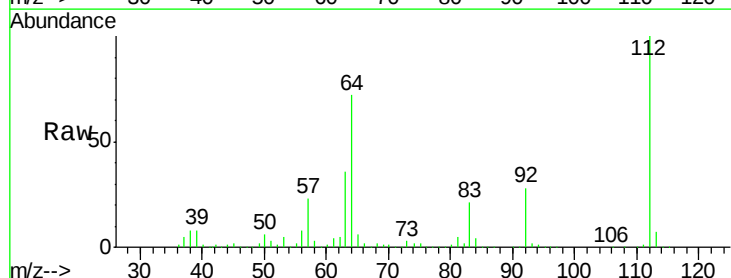
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 140.61 ng
RT: 5.13 min Scan# 301
Delta R.T. -0.00 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.5	55.6	83.4
63	36.4	28.2	42.2

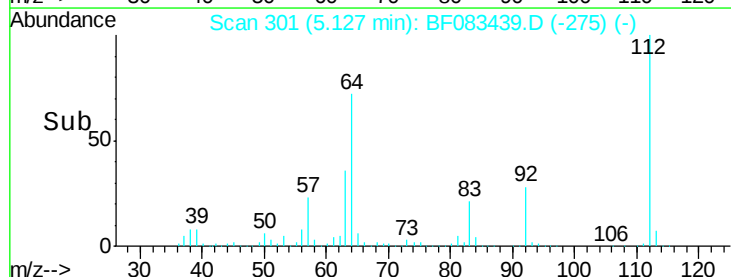
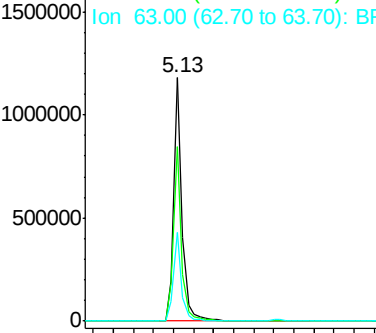


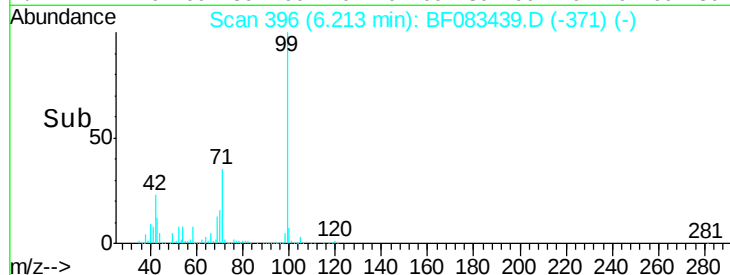
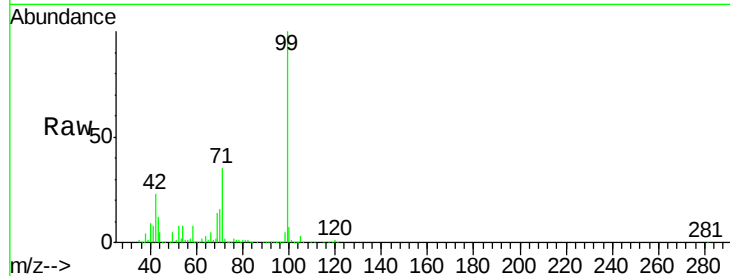
Abundance

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: 141.72 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Tot Ion: 99 Resp: 1864624

Ion Ratio Lower Upper

99 100

42 22.6 14.9 22.3#

71 35.1 24.7 37.1

Instrument :

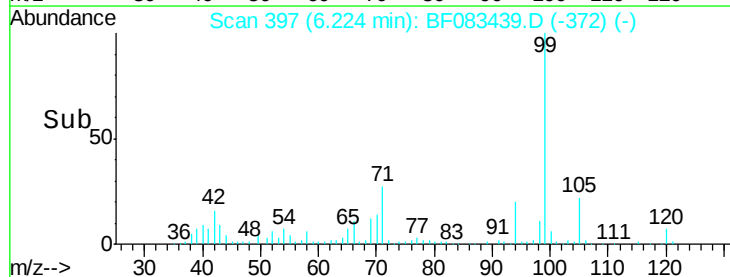
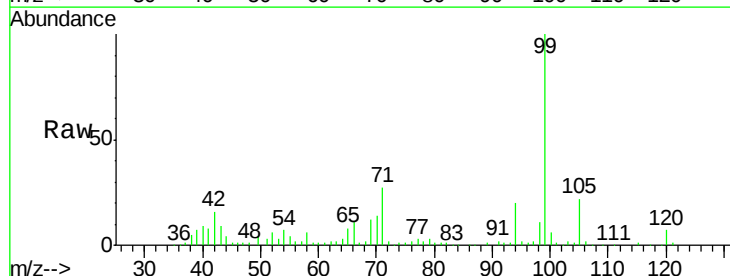
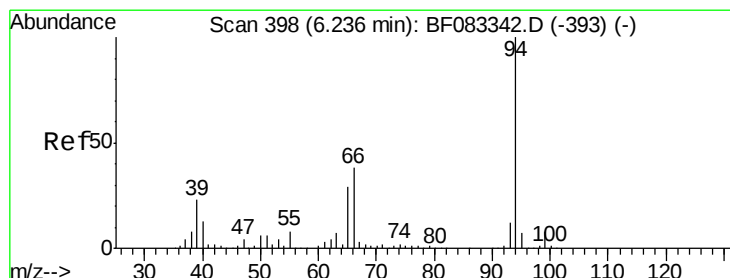
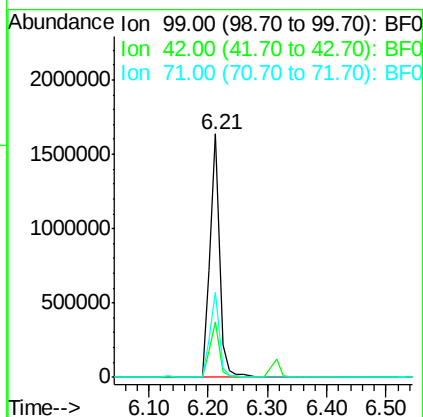
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#10

Phenol

Concen: 2.97 ng

RT: 6.22 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

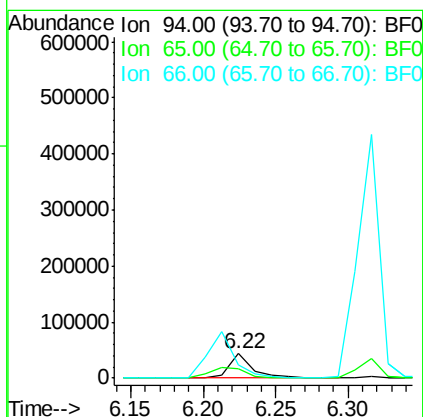
Tgt Ion: 94 Resp: 46994

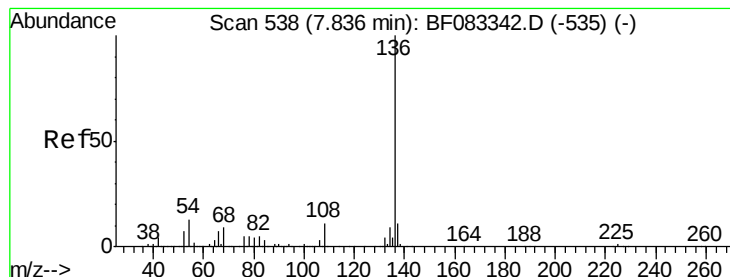
Ion Ratio Lower Upper

94 100

65 39.1 9.5 49.5

66 54.0 17.9 57.9





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF083439.D

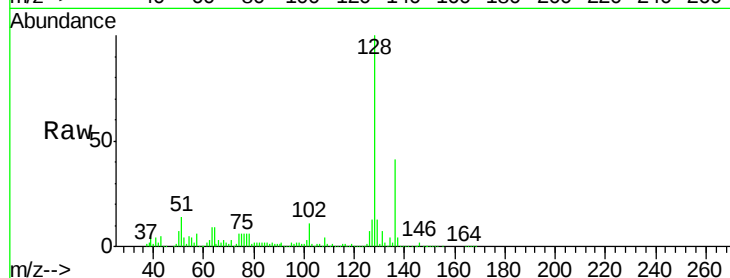
Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

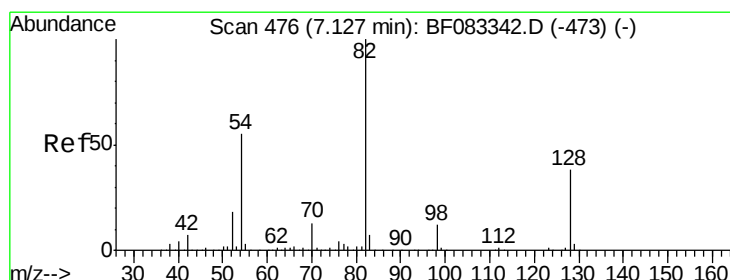
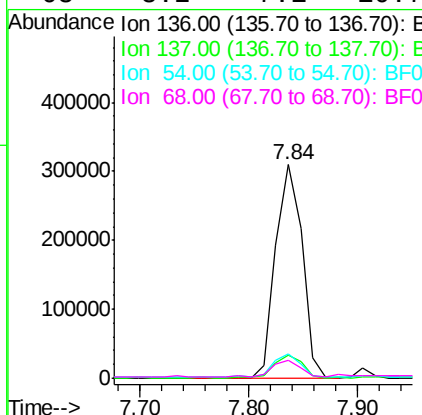
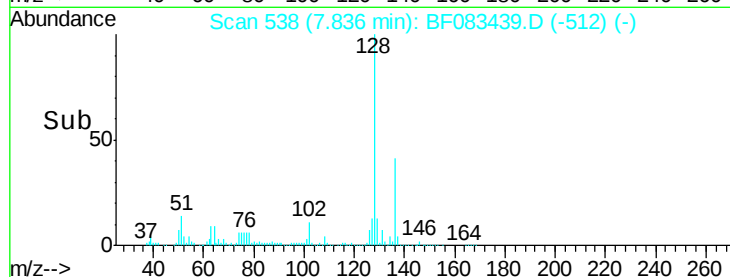
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		528113		
137	10.9	9.0	13.4		
54	11.3	10.1	15.1		
68	8.2	7.1	10.7		

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#23

Nitrobenzene-d5

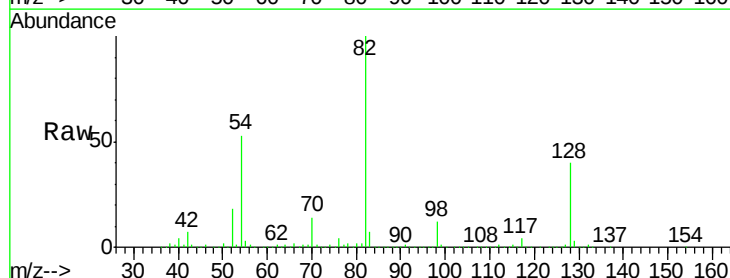
Concen: 106.70 ng

RT: 7.12 min Scan# 475

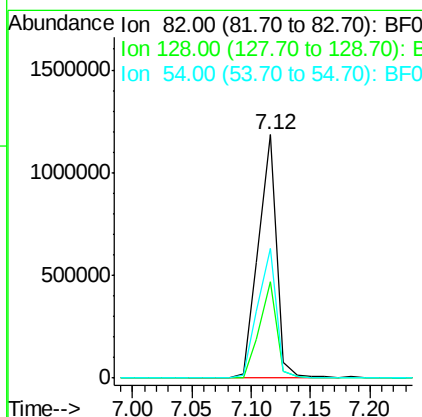
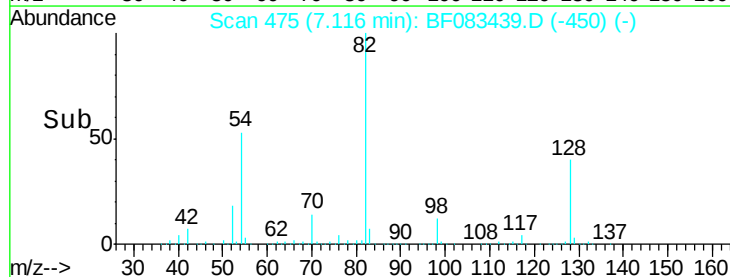
Delta R.T. -0.01 min

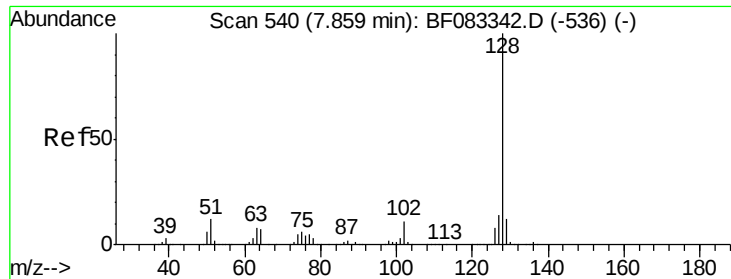
Lab File: BF083439.D

Acq: 3 Dec 2015 2:49



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		1281857		
128	39.6	30.6	46.0		
54	53.2	43.8	65.6		





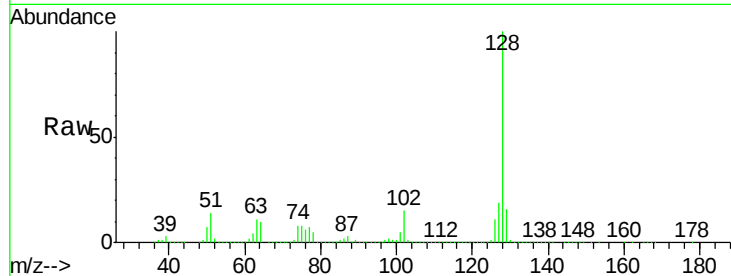
#31
Naphthalene
Concen: 323.63 ng
RT: 7.87 min Scan# 541
Delta R.T. 0.01 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

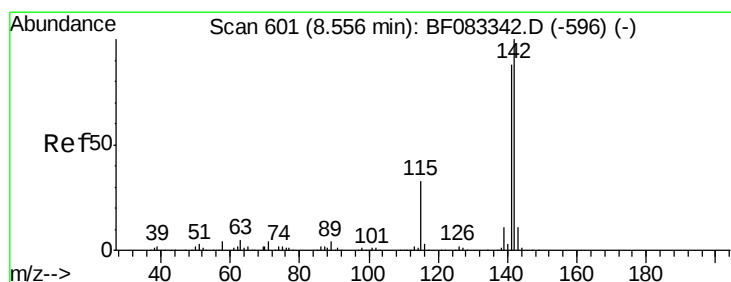
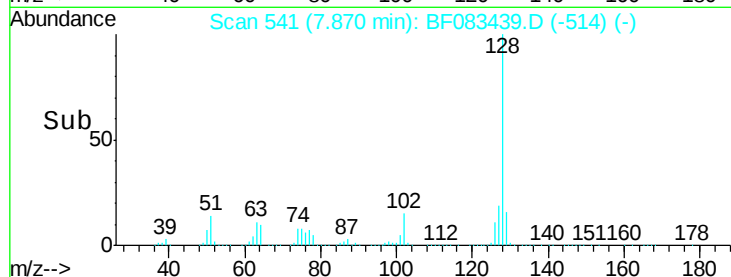
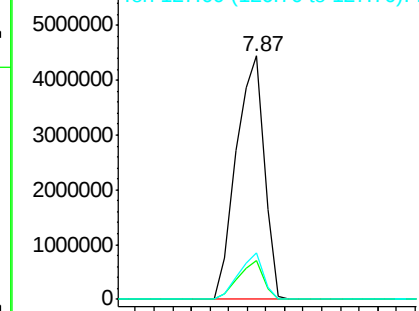
Tot Ion:128 Resp: 9273480
Ion Ratio Lower Upper
128 100
129 16.1 9.7 14.5#
127 18.9 11.0 16.4#

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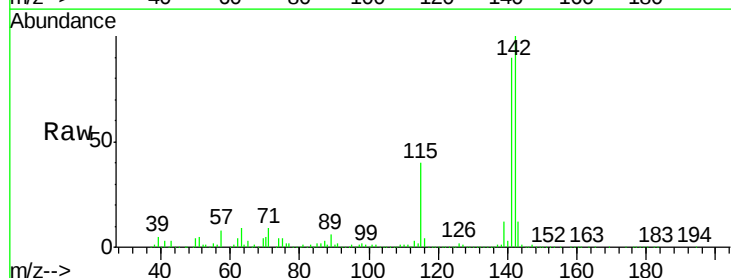


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

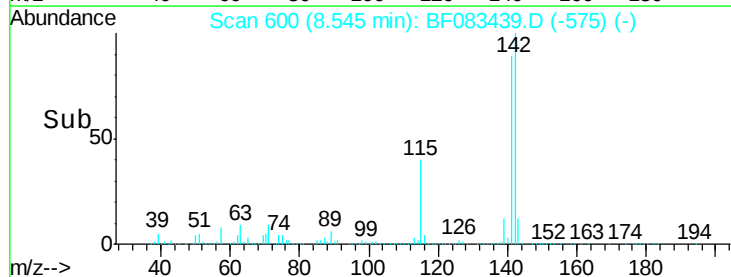
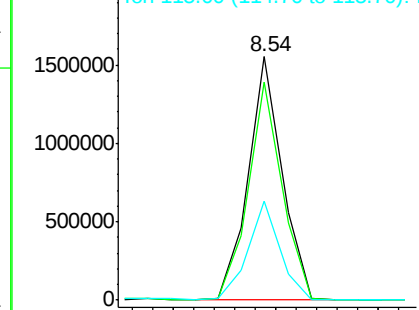


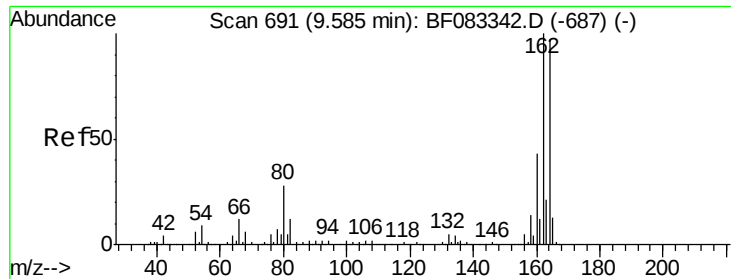
#37
2-Methylnaphthalene
Concen: 93.39 ng m
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion:142 Resp: 1788396
Ion Ratio Lower Upper
142 100
141 89.5 70.6 105.8
115 40.4 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: BF083439.D

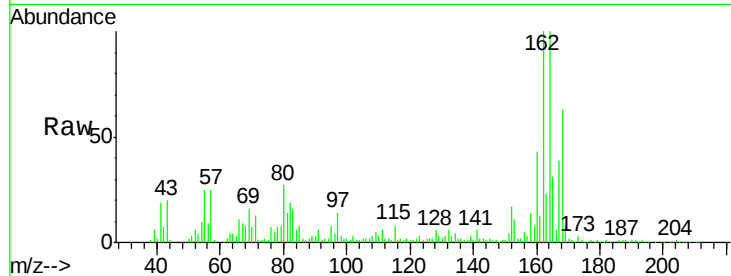
Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

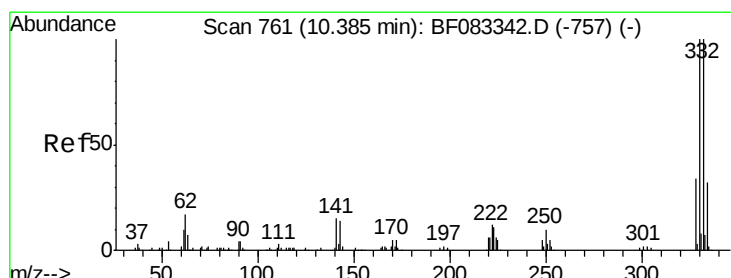
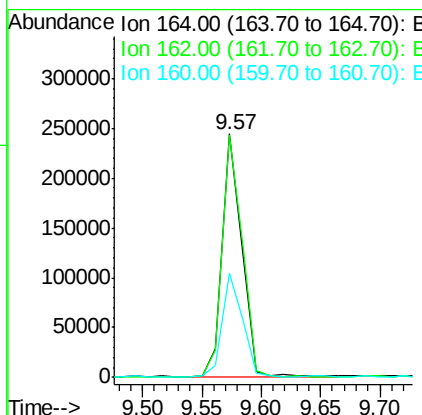
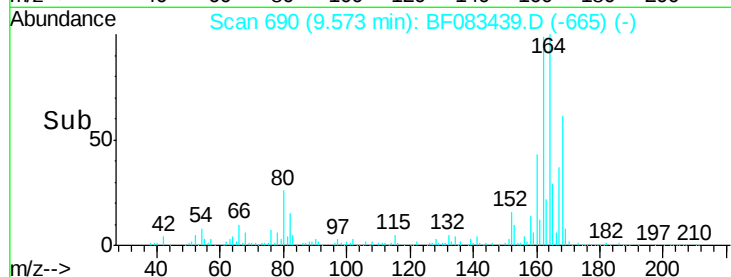
SB-P3WC-08(8-14)



Tot Ion	164	Resp	272932
Ion Ratio	Lower	Upper	
164	100		
162	99.5	82.6	123.8
160	42.8	35.3	52.9

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#41

2,4,6-Tribromophenol

Concen: 132.15 ng

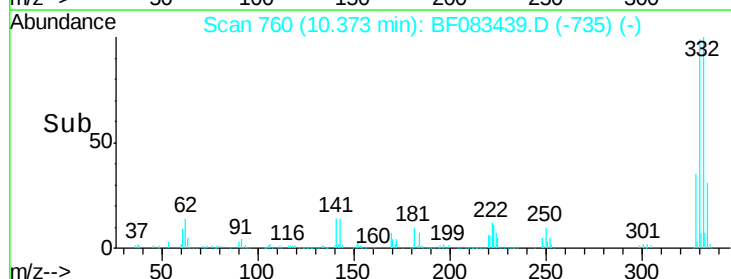
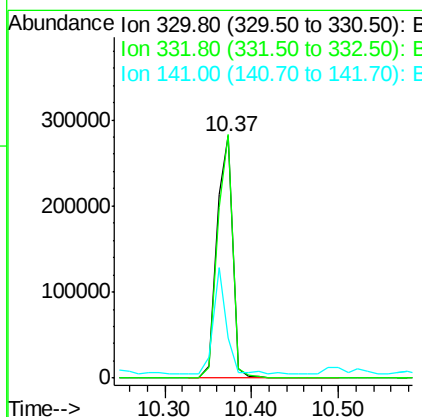
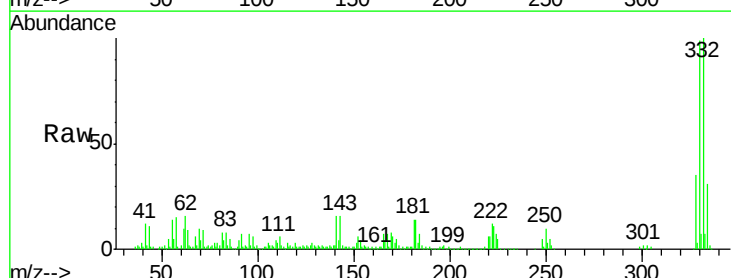
RT: 10.37 min Scan# 760

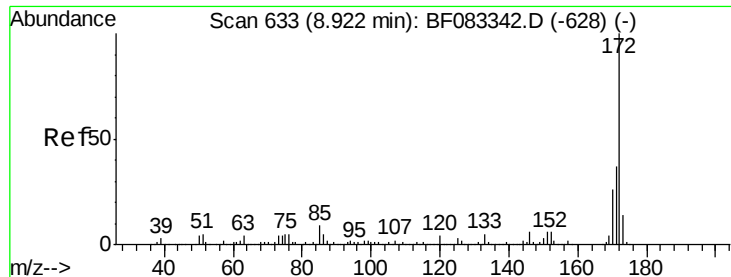
Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Tgt Ion	330	Resp	362075
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.8	116.6
141	37.3	29.4	44.0





#44

2-Fluorobiphenyl

Concen: 85.40 ng

RT: 8.91 min Scan# 632

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-08(8-14)

Tot Ion:172 Resp: 1635702

Ion Ratio Lower Upper

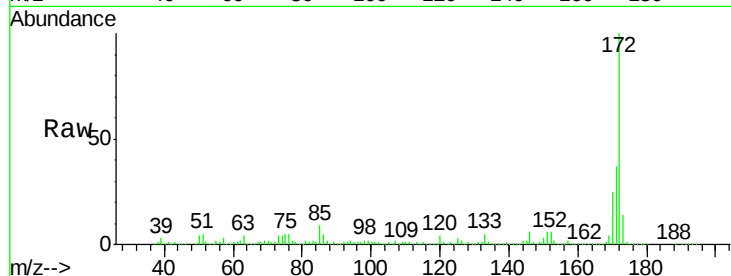
172 100

171 36.6 29.4 44.0

170 25.1 20.4 30.6

Manual Integrations
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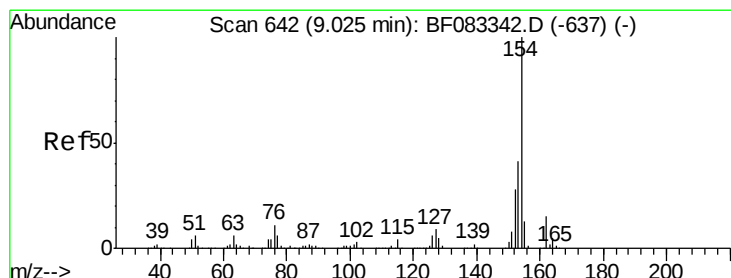
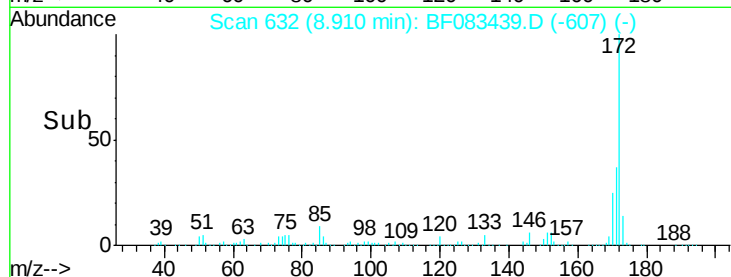
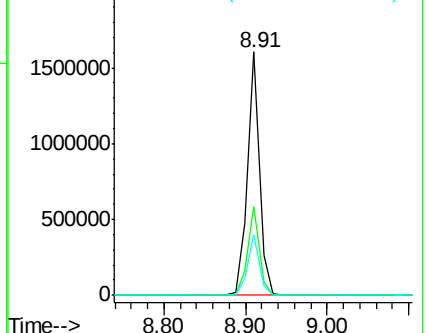
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#45

1,1'-Biphenyl

Concen: 29.34 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

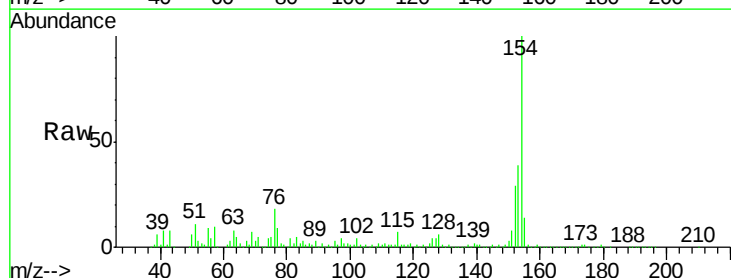
Tgt Ion:154 Resp: 702316

Ion Ratio Lower Upper

154 100

153 39.5 20.6 60.6

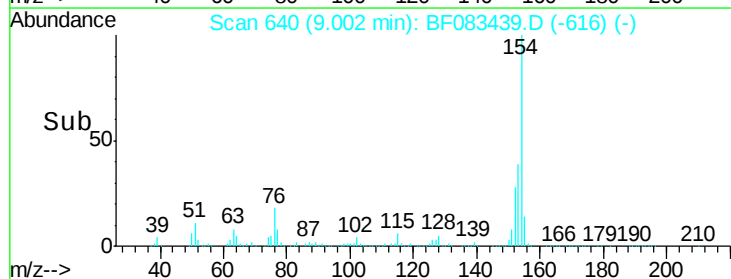
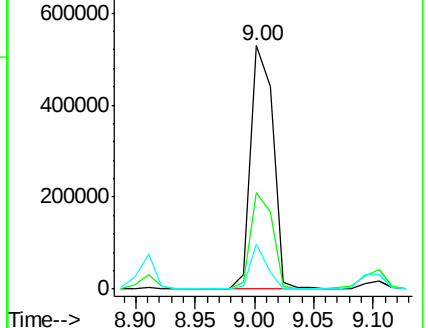
76 18.5 0.0 30.5

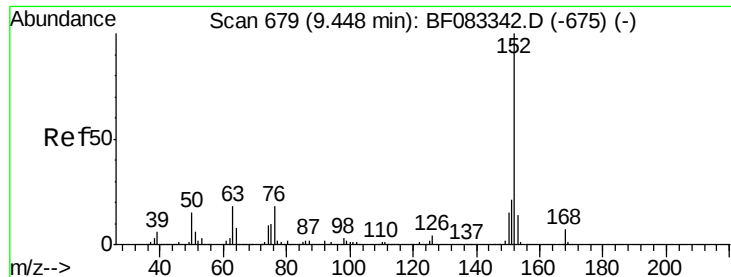


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 10.26 ng

RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

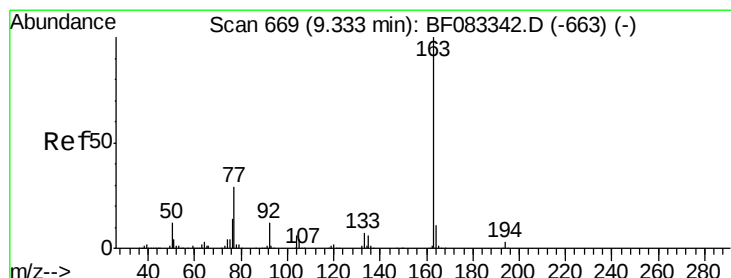
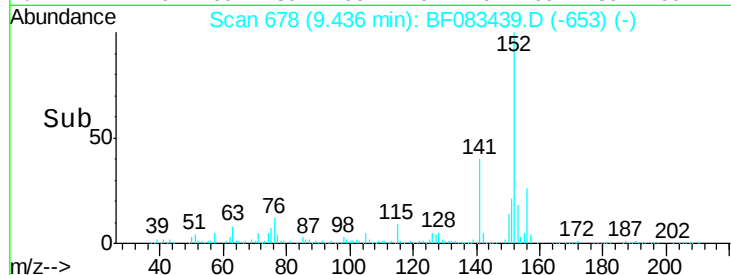
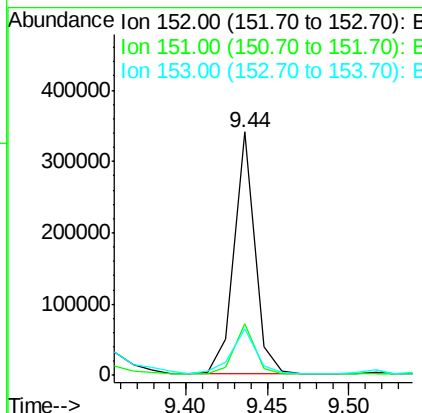
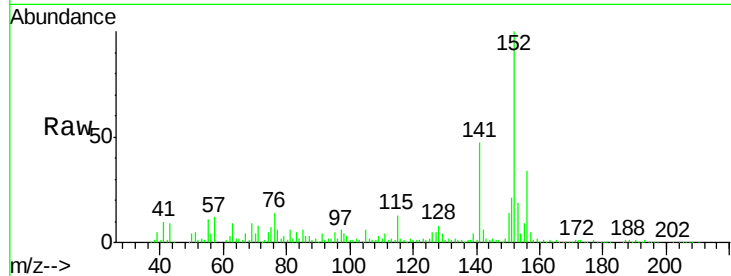
ClientSampleId :

SB-P3WC-08(8-14)

Tot Ion:	152	Resp:	298597
Ion Ratio		Lower	Upper
152	100		
151	21.2	16.7	25.1
153	18.9	11.2	16.8#

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#49

Dimethylphthalate

Concen: 15.21 ng

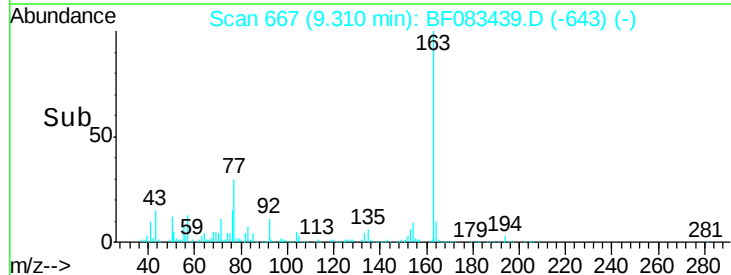
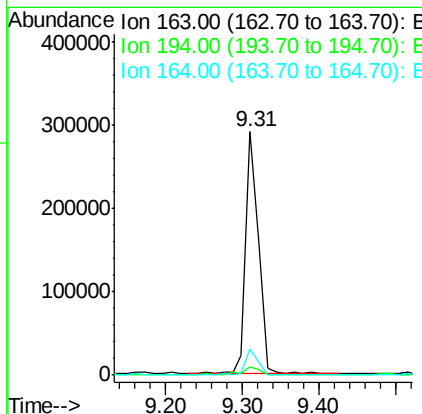
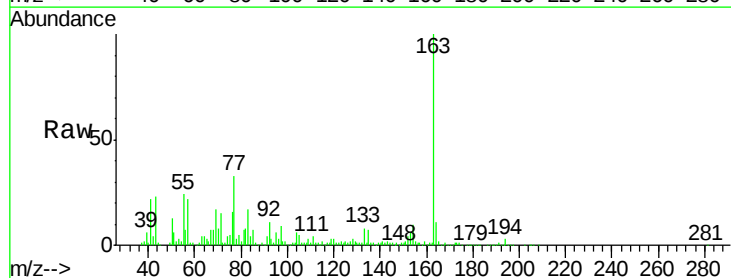
RT: 9.31 min Scan# 667

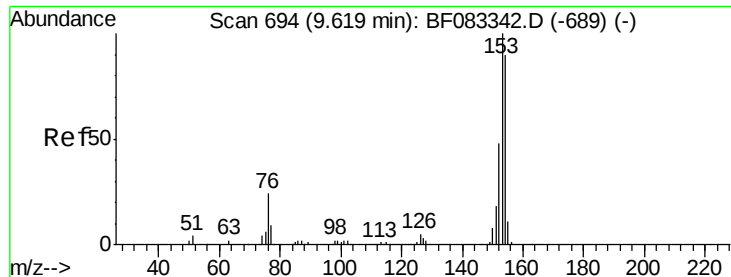
Delta R.T. -0.02 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Tgt Ion:	163	Resp:	337292
Ion Ratio		Lower	Upper
163	100		
194	3.4	2.7	4.1
164	10.6	8.8	13.2





#51

Acenaphthene

Concen: 128.43 ng

RT: 9.62 min Scan# 694

Delta R.T. -0.00 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

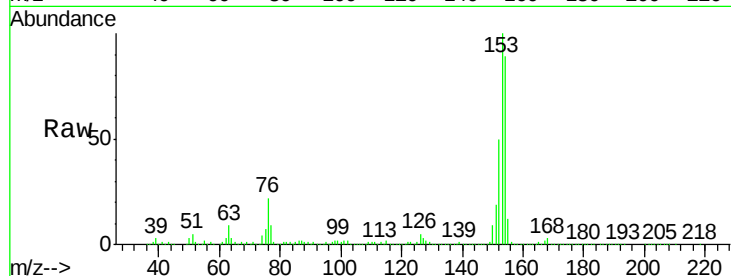
ClientSampleId :

SB-P3WC-08(8-14)

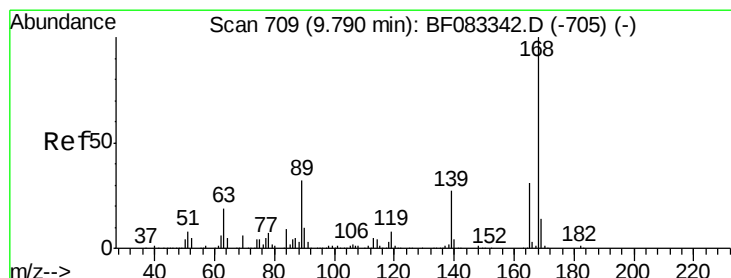
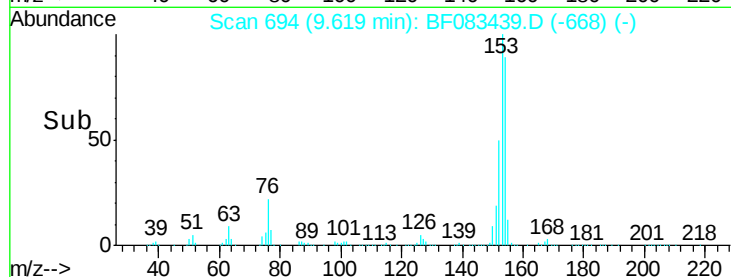
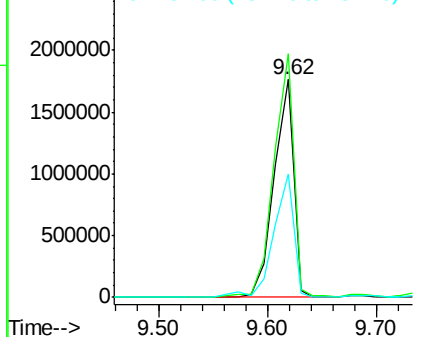
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Tot Ion:	154	Resp:	2197702
Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.3	133.9
152	56.4	42.5	63.7



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.87 ng m

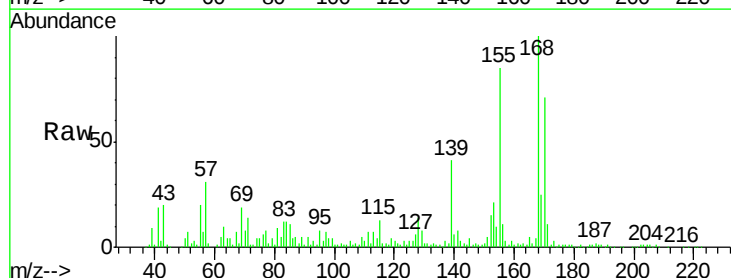
RT: 9.78 min Scan# 708

Delta R.T. -0.01 min

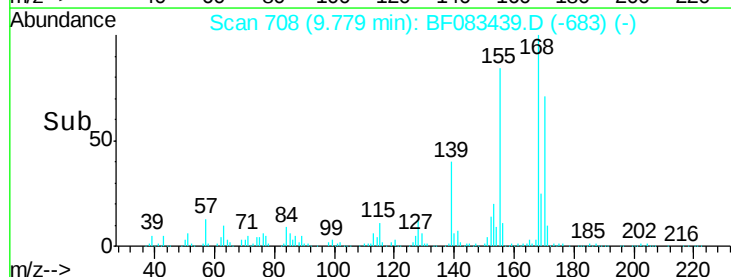
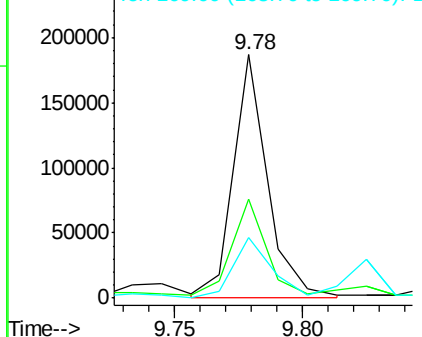
Lab File: BF083439.D

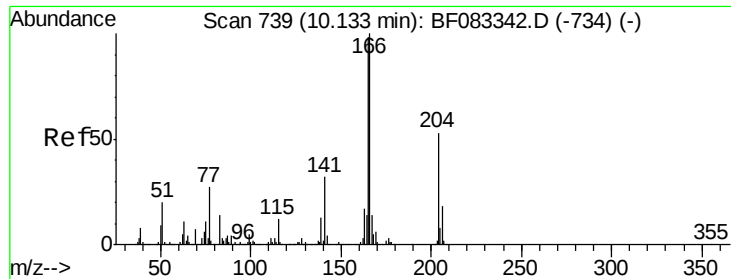
Acq: 3 Dec 2015 2:49

Tgt Ion:	168	Resp:	172297
Ion	Ratio	Lower	Upper
168	100		
139	40.7	32.7	49.1
169	25.0	11.1	16.7#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





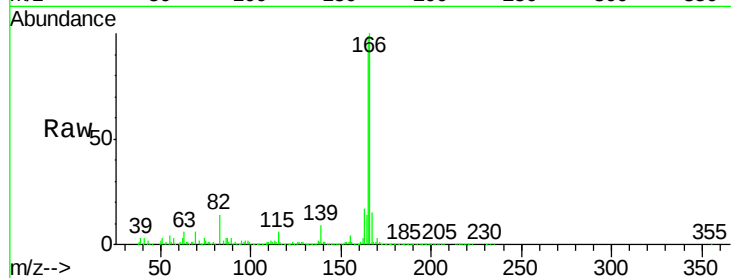
#57
Fluorene
 Concen: 53.33 ng/ml
 RT: 10.12 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF083439.D
 Acq: 3 Dec 2015 2:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(8-14)

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.3	117.5
167	14.9	11.1	16.7

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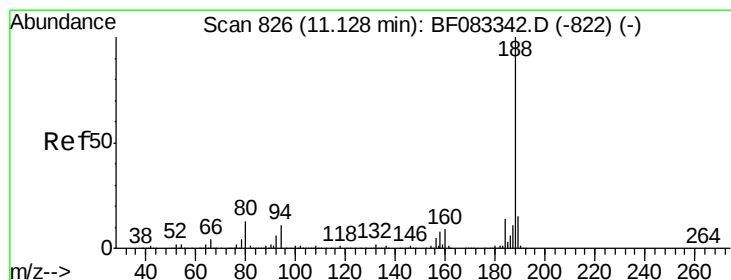
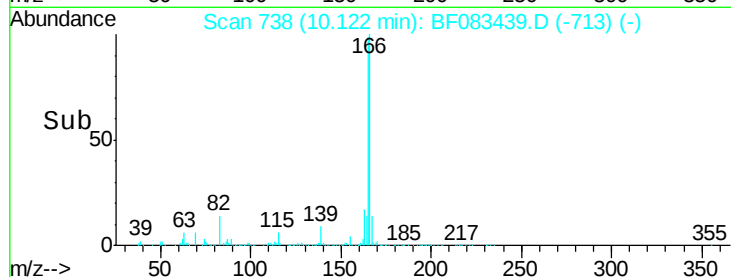
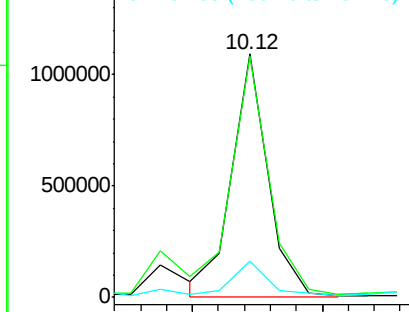


Abundance

Ion 166.00 (165.70 to 166.70): E

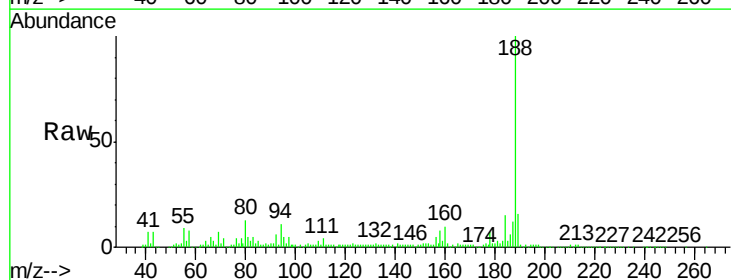
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.12 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF083439.D
 Acq: 3 Dec 2015 2:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.4	8.7	13.1
80	13.3	10.3	15.5

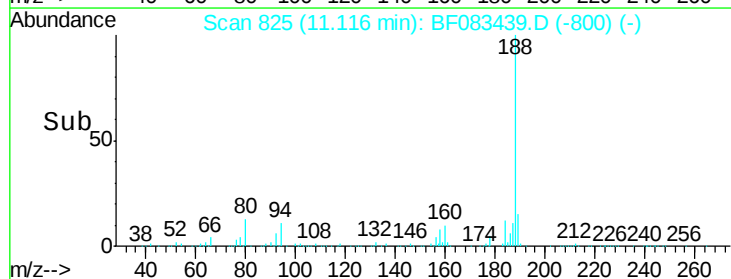
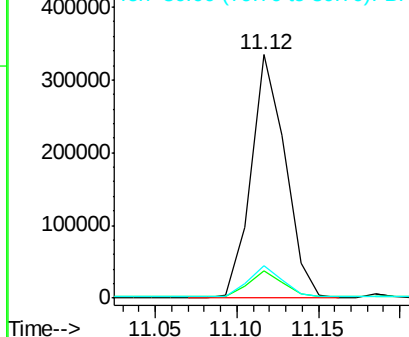


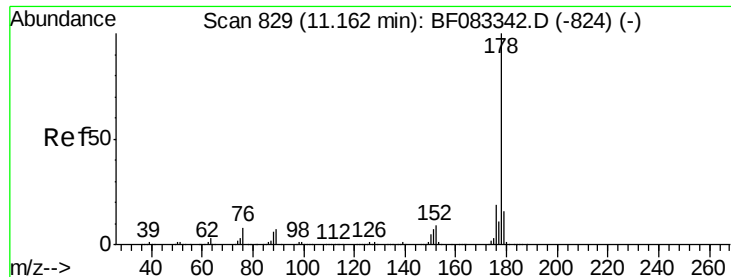
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





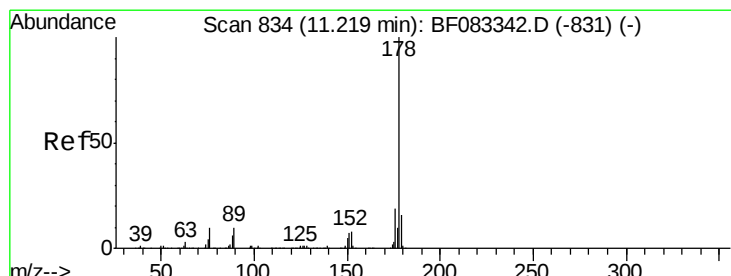
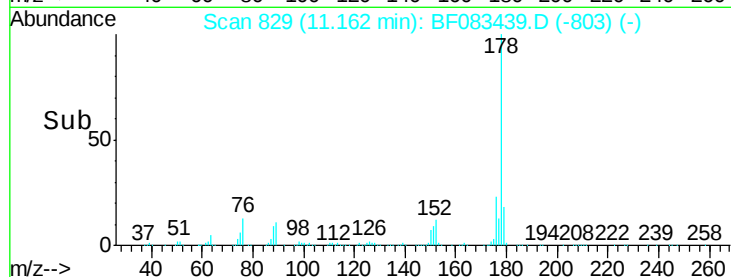
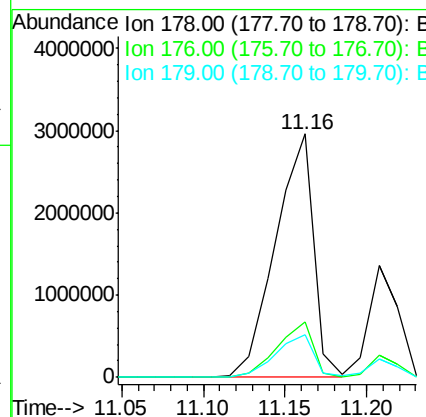
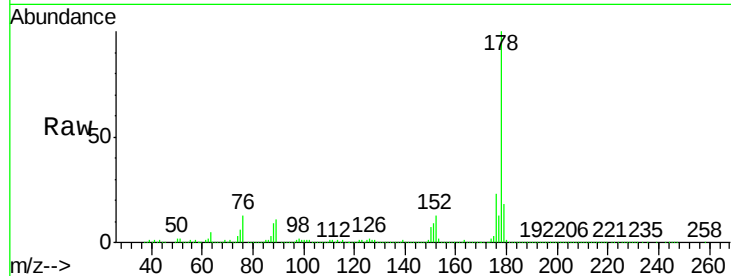
#70
Phenanthrene
Concen: 167.16 ng
RT: 11.16 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

Tot Ion:178 Resp: 4826786
Ion Ratio Lower Upper
178 100
176 22.7 15.3 22.9
179 17.8 12.4 18.6

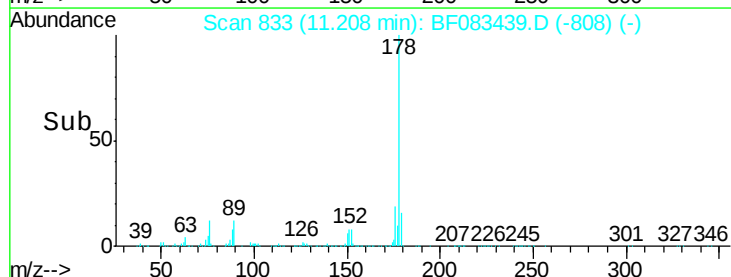
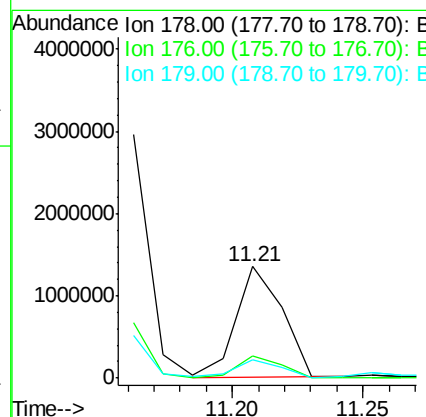
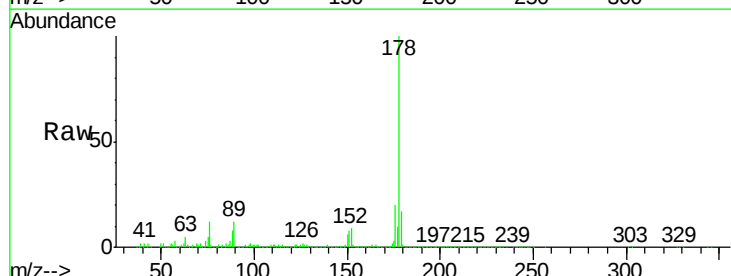
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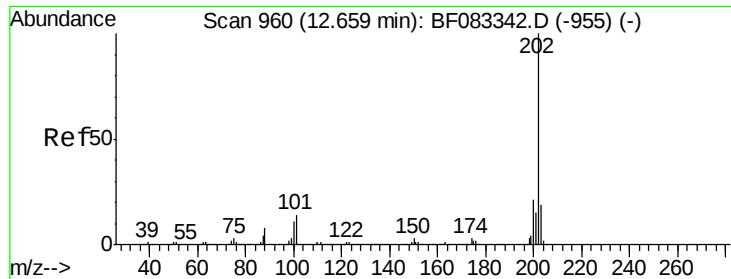
Mmdadoda
12/3/2015 7:09:56 PM



#71
Anthracene
Concen: 57.31 ng
RT: 11.21 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion:178 Resp: 1665871
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 16.9 12.8 19.2





#74

Fluoranthene

Concen: 83.54 ng

RT: 12.66 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF083439.D

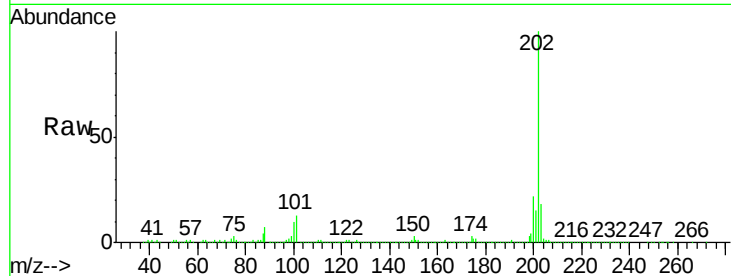
Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

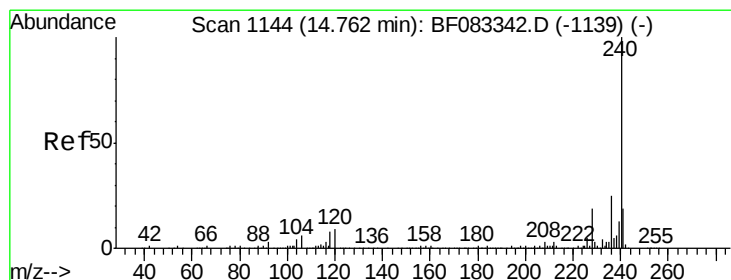
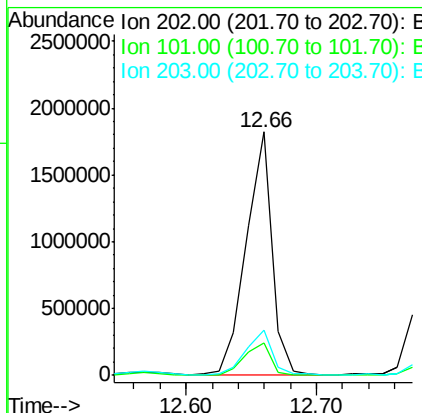
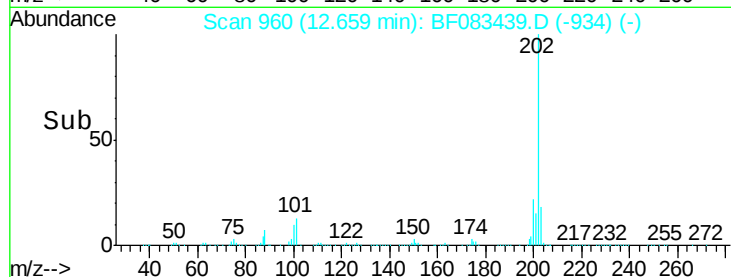
SB-P3WC-08(8-14)



Tot Ion	Ion:202	Resp:	2500605
Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	34.5
203	18.4	0.0	38.7

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

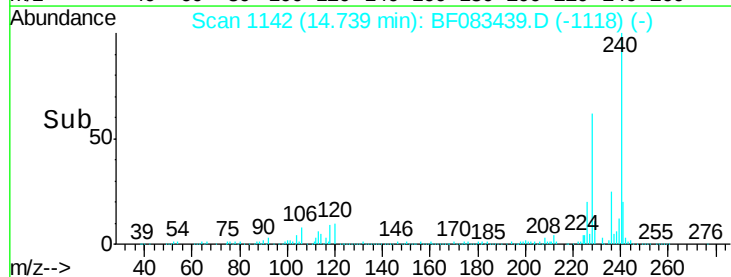
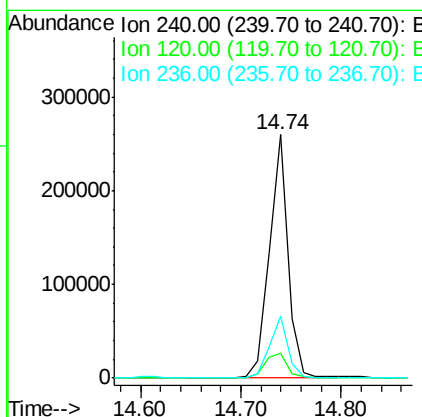
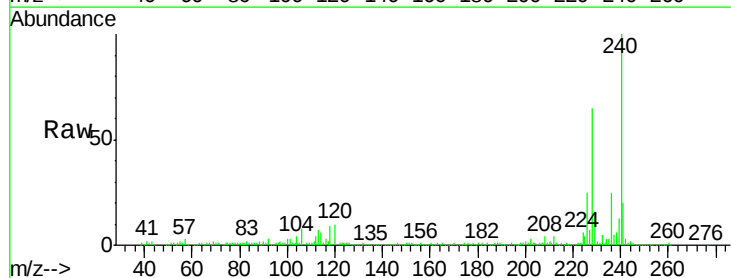
RT: 14.74 min Scan# 1142

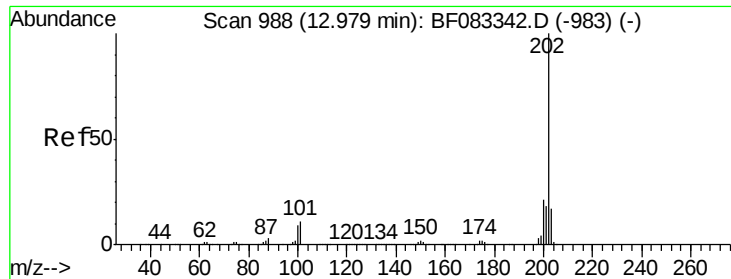
Delta R.T. -0.02 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Tgt Ion	Ion:240	Resp:	333436
Ion	Ratio	Lower	Upper
240	100		
120	10.2	6.9	10.3
236	25.3	19.8	29.6





#77

Pvrene

Concen: 153.43 ng

RT: 12.98 min Scan# 988

Delta R.T. -0.00 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-08(8-14)

Tot Ion:202 Resp: 3572795

Ion	Ratio	Lower	Upper
202	100		
200	22.7	16.9	25.3
203	18.6	13.9	20.9

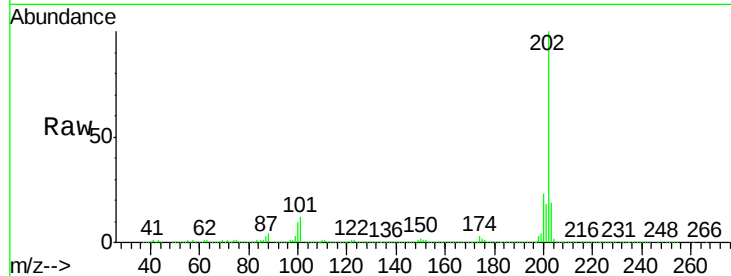
202 100

200 22.7 16.9 25.3

203 18.6 13.9 20.9

Manual Integrations
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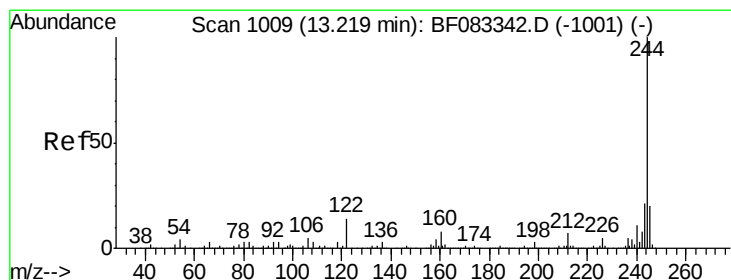
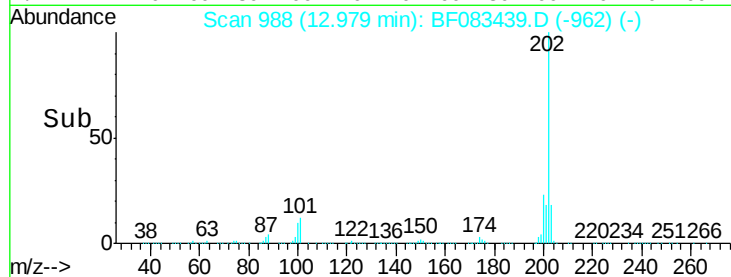
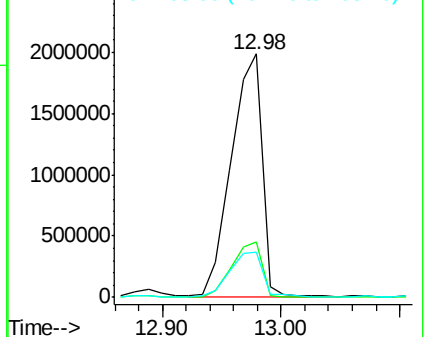


Abundance

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: 104.47 ng

RT: 13.21 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

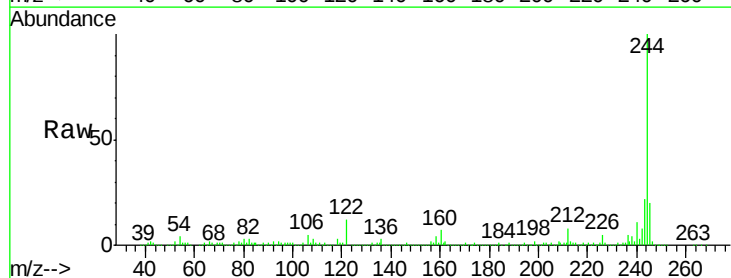
Tgt Ion:244 Resp: 1460634

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.8
122	12.2	11.0	16.4

244 100

212 7.6 5.8 8.8

122 12.2 11.0 16.4

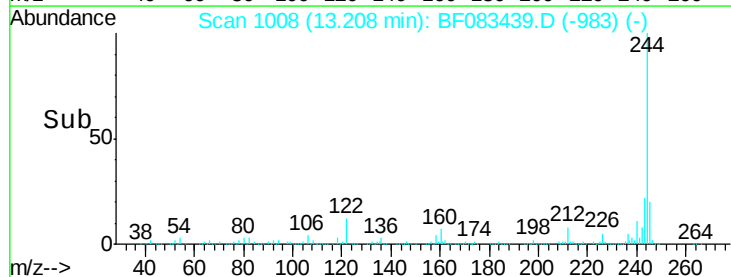
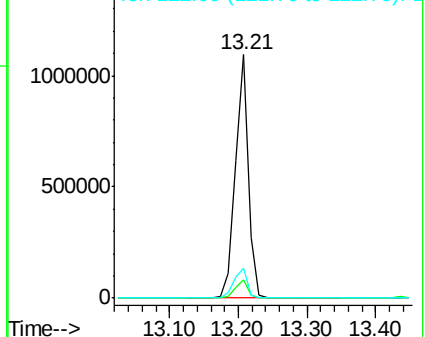


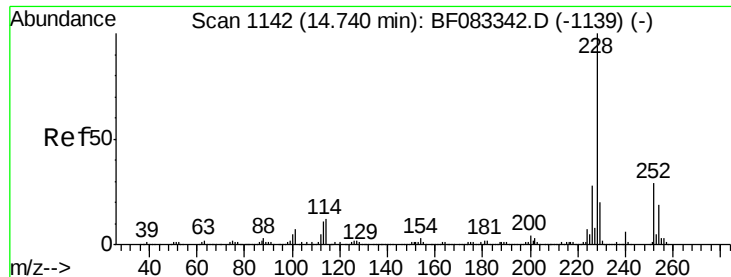
Abundance

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





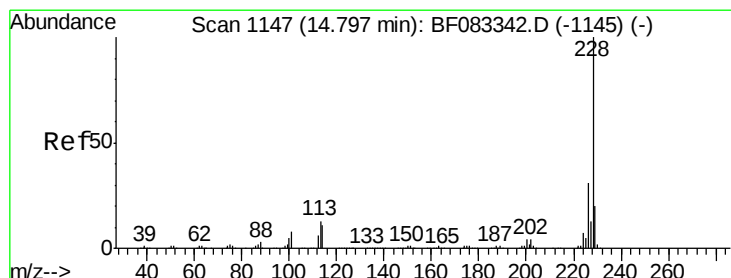
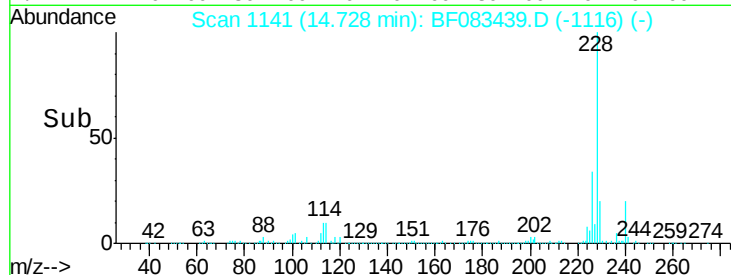
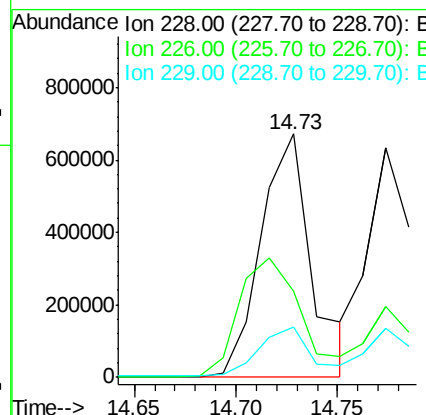
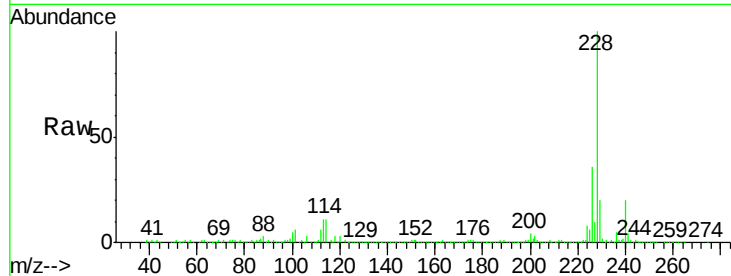
#80
Benzo(a)anthracene
Concen: 56.43 ng/mL
RT: 14.73 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

Tot Ion: 228 Resp: 1152682
Ion Ratio Lower Upper
228 100
226 35.5 22.2 33.4#
229 20.5 16.1 24.1

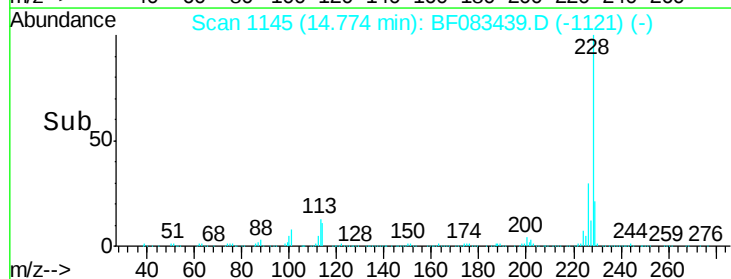
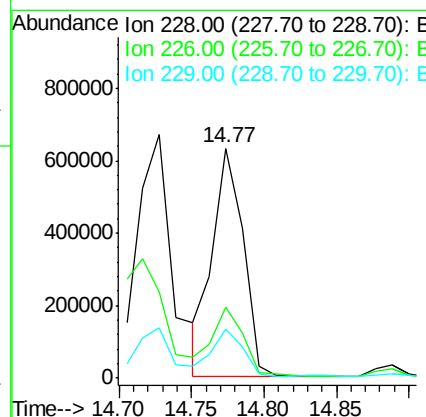
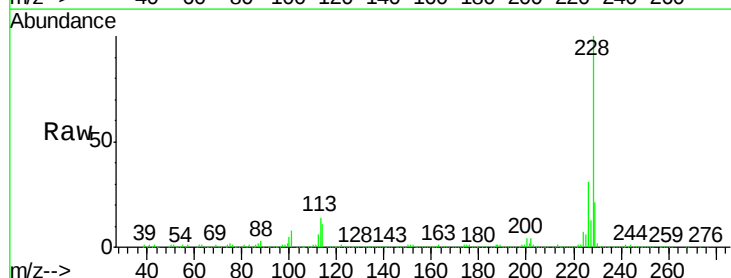
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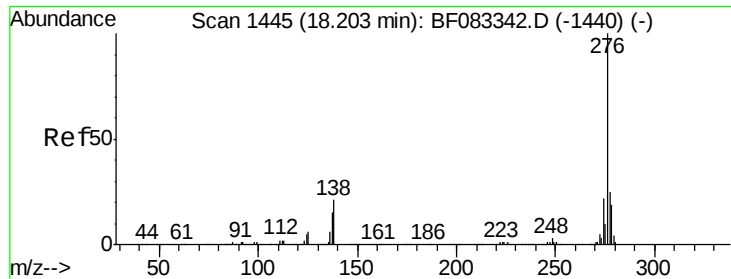
Mmdadoda
12/3/2015 7:09:56 PM



#82
Chrysene
Concen: 47.31 ng/mL
RT: 14.77 min Scan# 1145
Delta R.T. -0.02 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion: 228 Resp: 933667
Ion Ratio Lower Upper
228 100
226 30.8 24.6 37.0
229 21.4 16.2 24.2





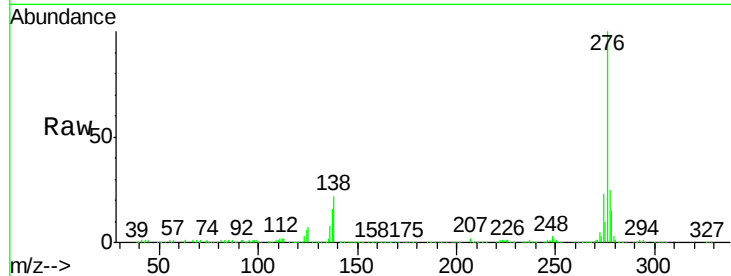
#85
Indeno(1,2,3-cd)pyrene
Concen: 34.28 ng
RT: 18.18 min Scan# 1443
Delta R.T. -0.02 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

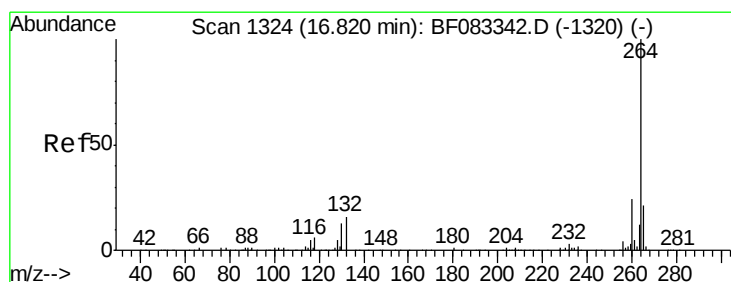
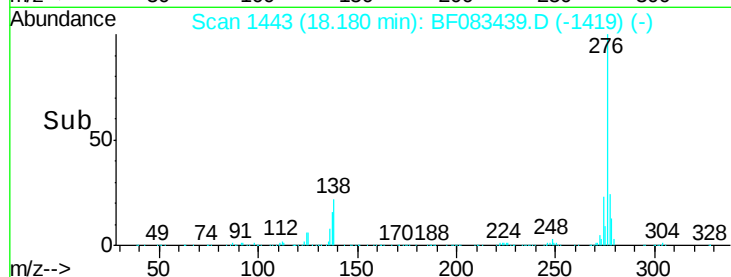
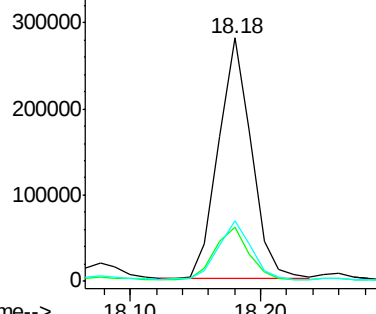
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.7	21.2	31.8
277	24.6	20.0	30.0

Manual Integrations
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12/3/2015 7:09:56 PM

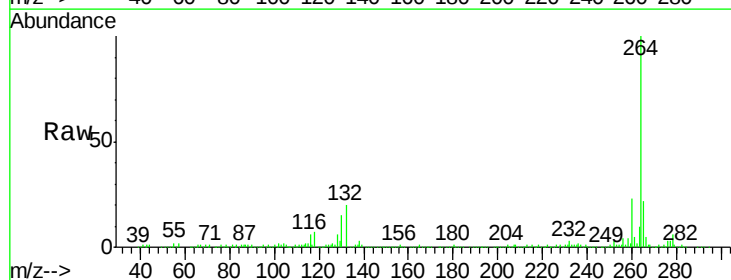


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

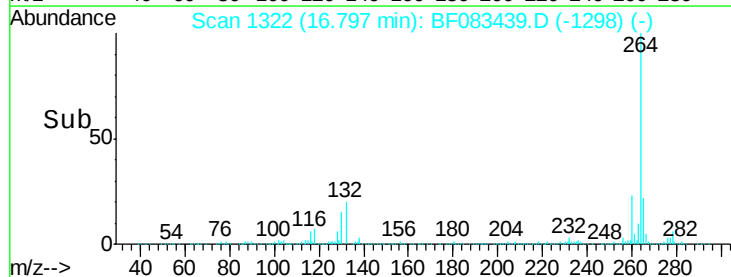
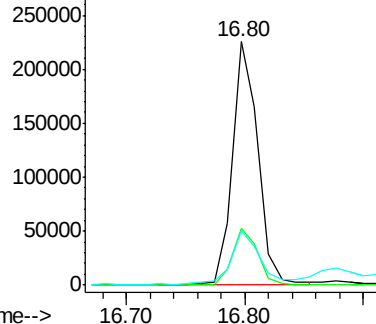


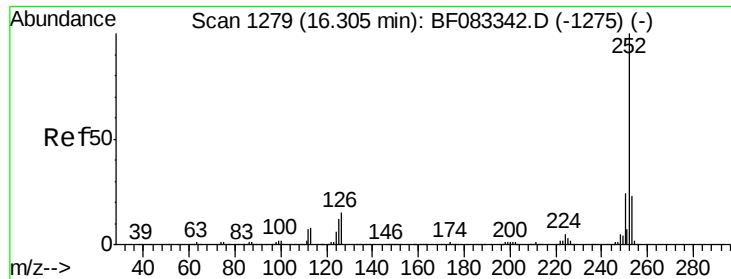
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.4
265	22.5	16.8	25.2



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 47.90 ng m

RT: 16.29 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-08(8-14)

Tot Ion:252 Resp: 1037802

Ion Ratio Lower Upper

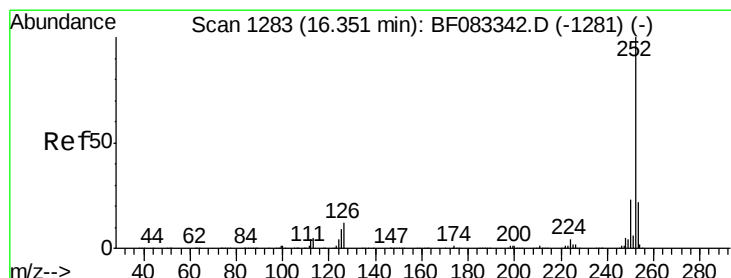
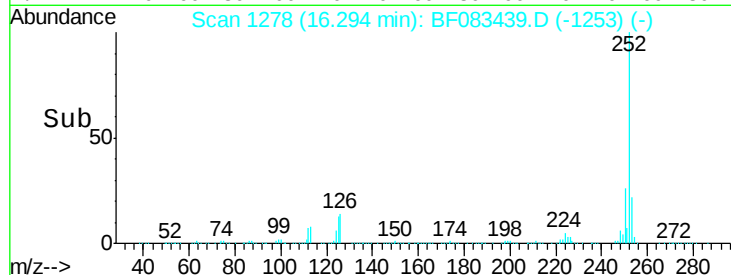
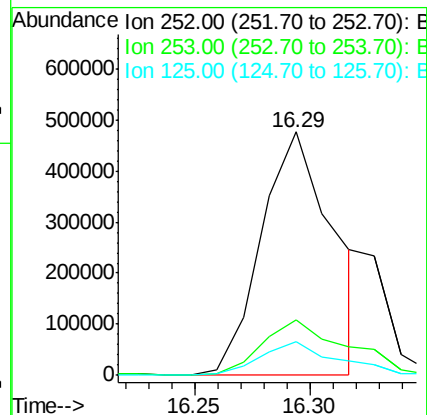
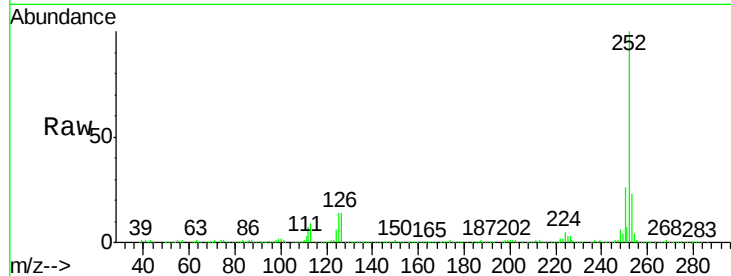
252 100

253 22.7 18.4 27.6

125 13.7 9.6 14.4

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#88

Benzo(k)fluoranthene

Concen: 10.09 ng m

RT: 16.32 min Scan# 1280

Delta R.T. -0.03 min

Lab File: BF083439.D

Acq: 3 Dec 2015 2:49

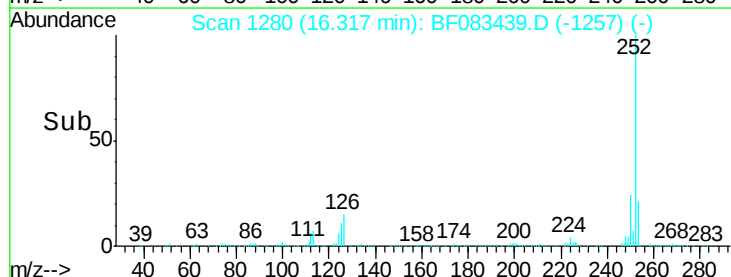
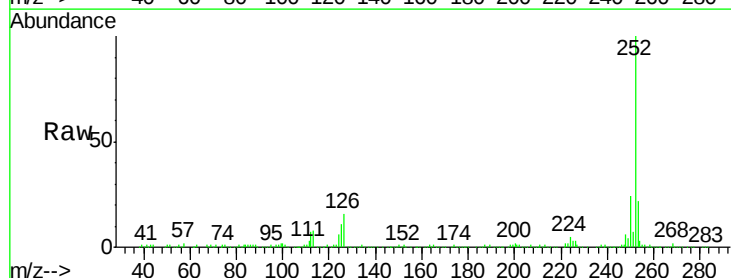
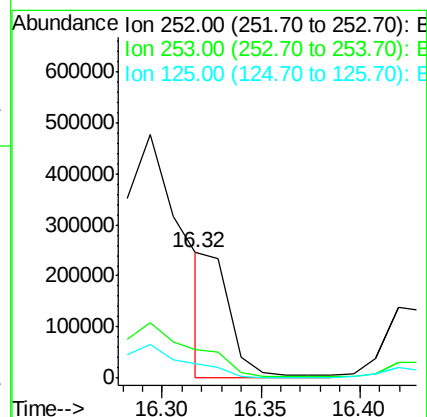
Tgt Ion:252 Resp: 206341

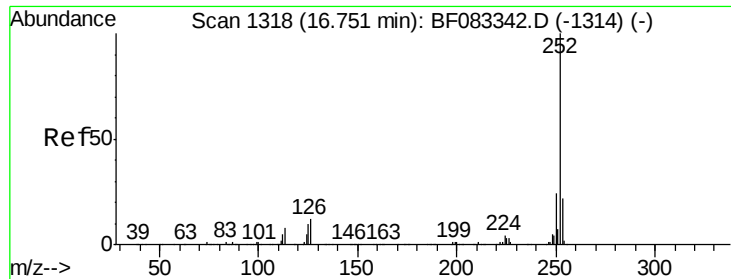
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 11.4 7.5 11.3#





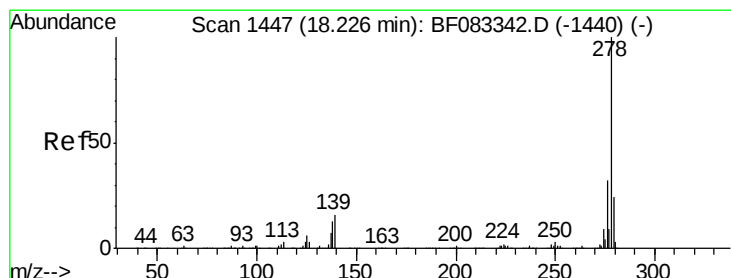
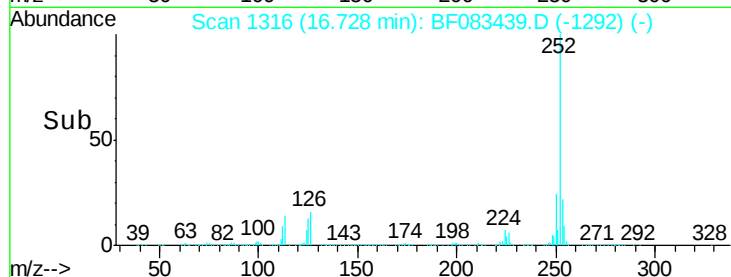
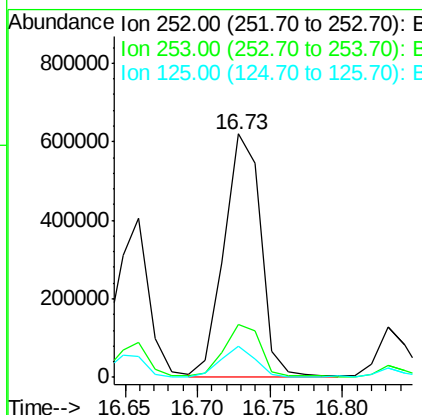
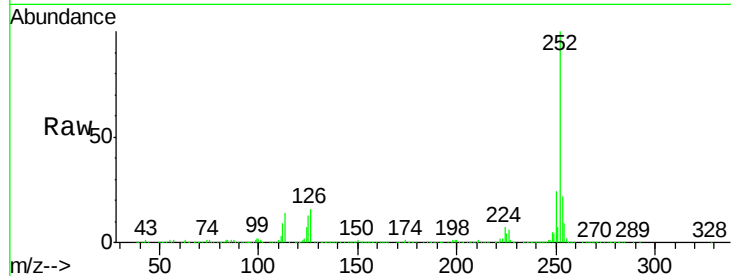
#89
Benzo(a)pyrene
Concen: 58.10 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(8-14)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	12.6	7.8	11.8

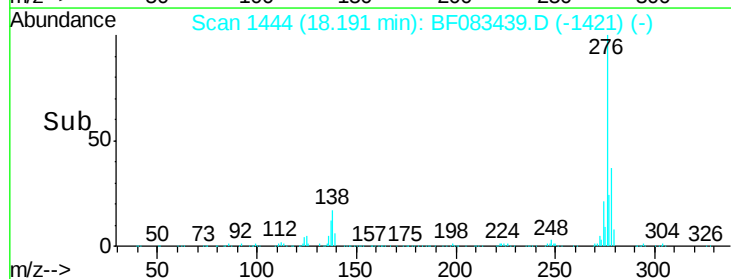
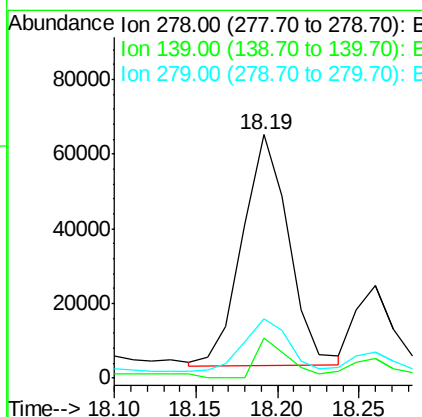
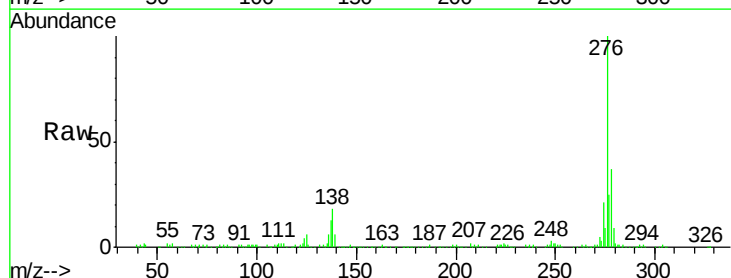
Manual Integrations
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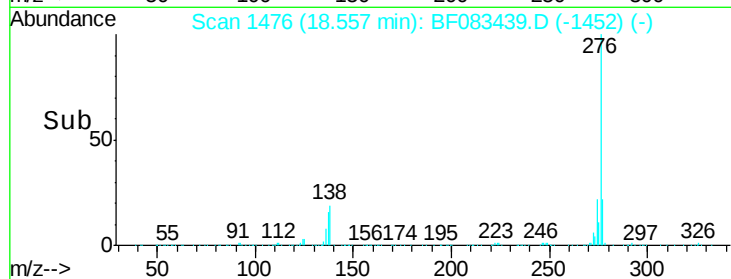
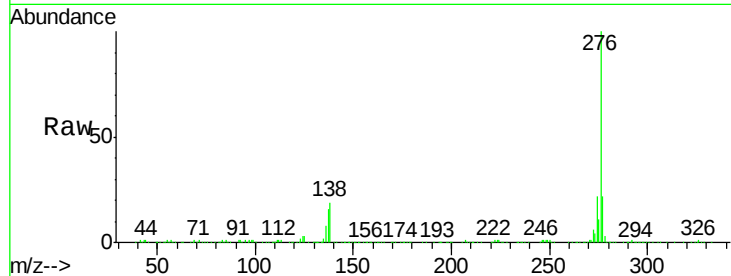
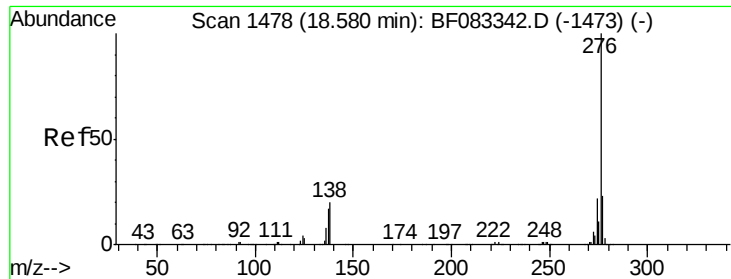
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#90
Dibenzo(a,h)anthracene
Concen: 7.61 ng
RT: 18.19 min Scan# 1444
Delta R.T. -0.03 min
Lab File: BF083439.D
Acq: 3 Dec 2015 2:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.3	13.1	19.7
279	24.3	19.2	28.8





#91
 Benzo(a,h,i)perylene
 Concen: 35.91 ng
 RT: 18.56 min Scan# 1476
 Delta R.T. -0.02 min
 Lab File: BF083439.D
 Acq: 3 Dec 2015 2:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(8-14)

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	22.5	18.6	28.0
138	19.3	16.1	24.1

Manual Integrations
 APPROVED

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