

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083442.D
 Acq On : 3 Dec 2015 4:21
 Operator : UM/IZ
 Sample : G4583-03
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)

Manual Integrations
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Mmdadoda
 12/3/2015 7:10:00 PM

Quant Time: Dec 03 07:43:05 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	141567	20.00	ng	-0.01
21) Naphthalene-d8	7.82	136	561416	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	271384	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	466836	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	334834	20.00	ng	-0.02
86) Perylene-d12	16.80	264	340974	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1191169	126.26	ng	0.00
7) Phenol-d6	6.21	99	1744283	135.08	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1097013	85.90	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	290922	106.79	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1634152	85.81	ng	-0.01
78) Terphenyl-d14	13.21	244	1315670	93.71	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.85	128	184769	6.07	ng	97
37) 2-Methylnaphthalene	8.54	142	41638	2.05	ng	95
48) Acenaphthylene	9.44	152	91982	3.18	ng	97
49) Dimethylphthalate	9.31	163	101601	4.61	ng	99
51) Acenaphthene	9.61	154	153672	9.03	ng	99
54) Dibenzofuran	9.78	168	69100	2.77	ng	90
57) Fluorene	10.12	166	105563m	5.36	ng	
70) Phenanthrene	11.14	178	1593789	57.69	ng	98
71) Anthracene	11.20	178	356665	12.82	ng	98
72) Carbazole	11.39	167	158110	6.33	ng	99
74) Fluoranthene	12.65	202	2301309	80.36	ng	100
77) Pvrene	12.97	202	2090713	89.41	ng	98
80) Benzo(a)anthracene	14.72	228	873118	42.56	ng	93
82) Chrysene	14.77	228	907056	45.77	ng	98
85) Indeno(1,2,3-cd)pyrene	18.18	276	494922	34.29	ng	94
87) Benzo(b)fluoranthene	16.29	252	1121813m	51.27	ng	
88) Benzo(k)fluoranthene	16.33	252	287895m	13.94	ng	
89) Benzo(a)pyrene	16.73	252	743424	39.56	ng	# 95
90) Dibenzo(a,h)anthracene	18.20	278	120622m	7.37	ng	
91) Benzo(a,h,i)perylene	18.56	276	498655	31.03	ng	97

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

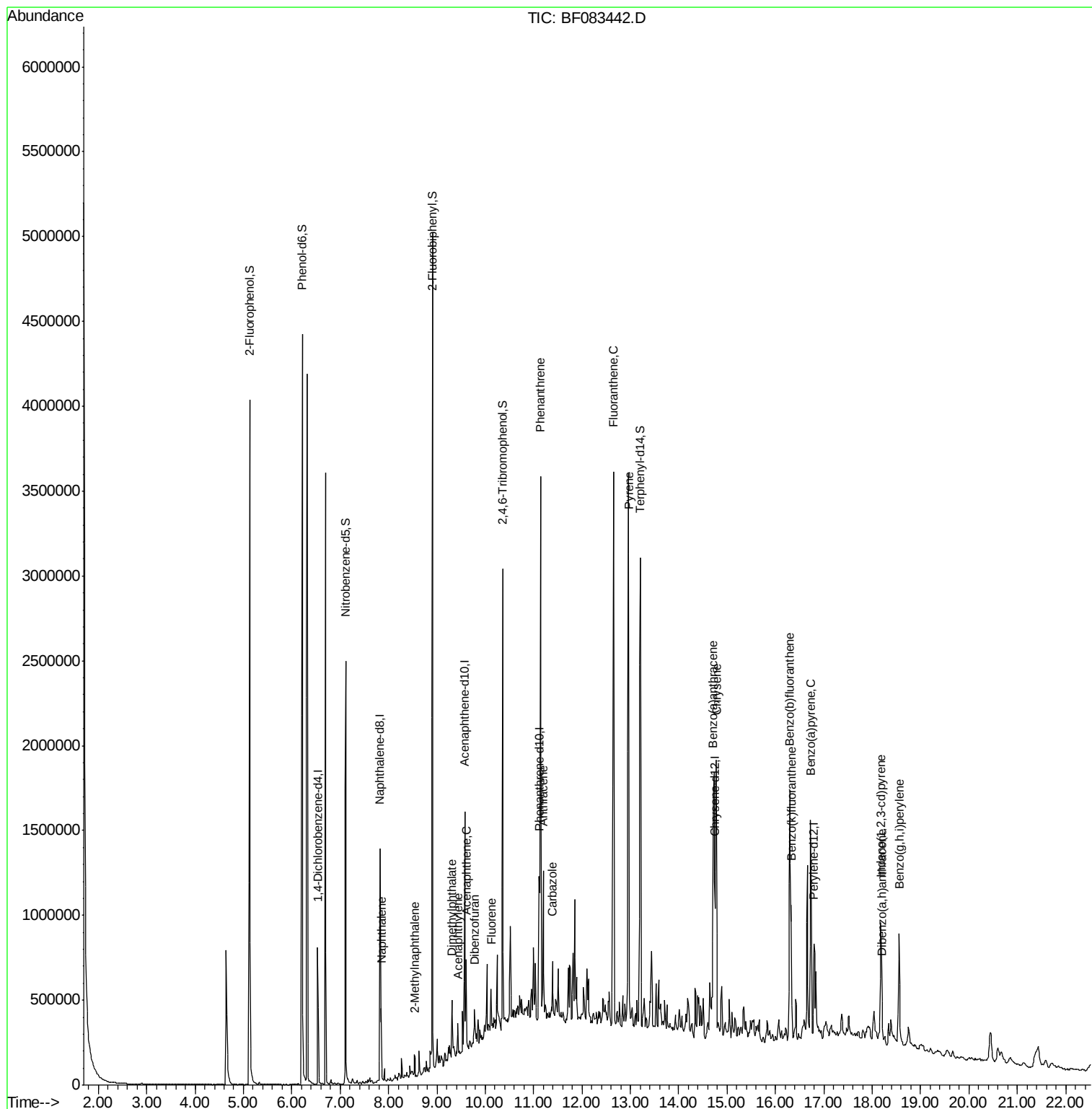
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
Data File : BF083442.D
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Misc :
ALS Vial : 29 Sample Multiplier: 1

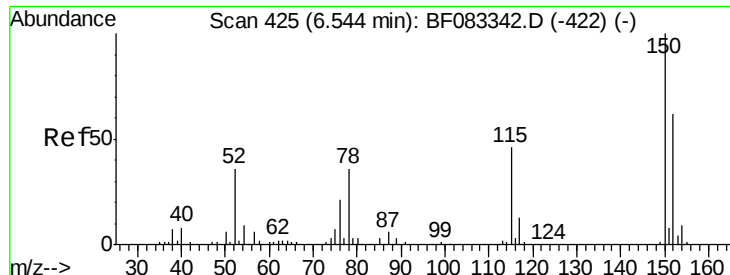
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

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12/3/2015 7:10:00 PM

Quant Time: Dec 03 07:43:05 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





#1

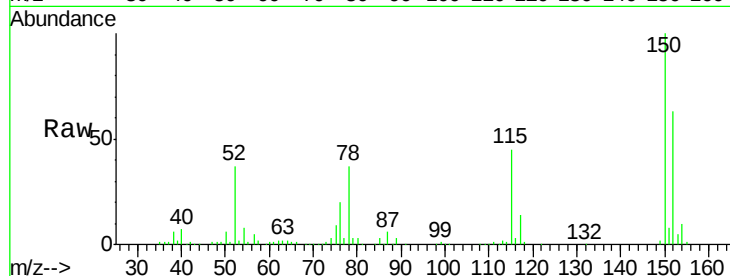
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.53 min Scan# 424
Delta R.T. -0.01 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

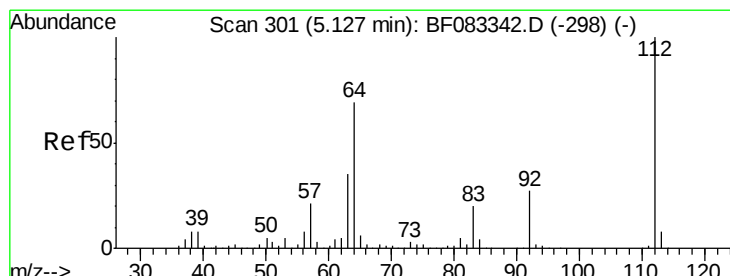
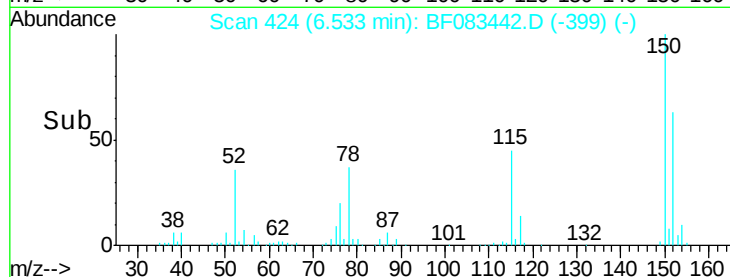
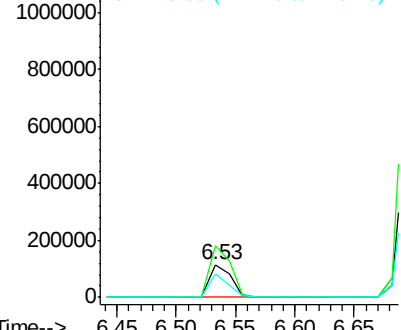
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	129.8	194.8
115	71.5	59.2	88.8

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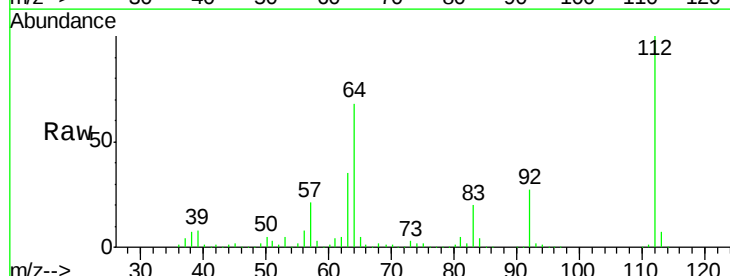
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



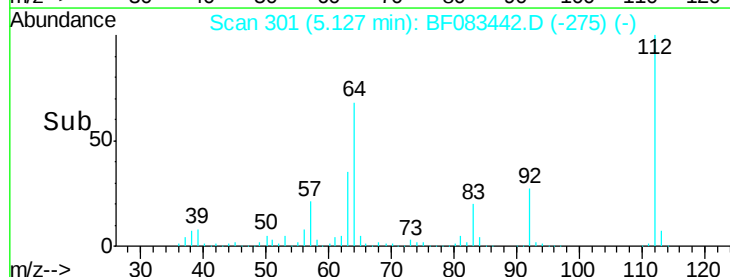
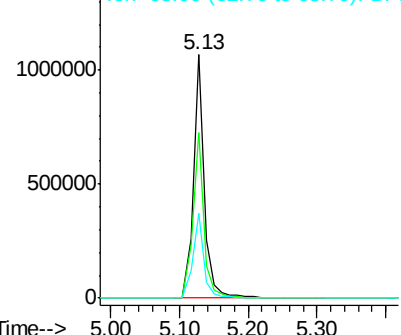
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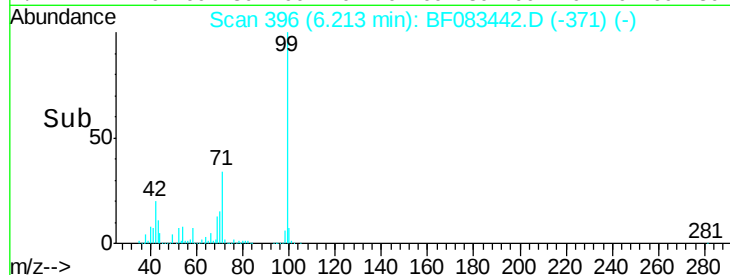
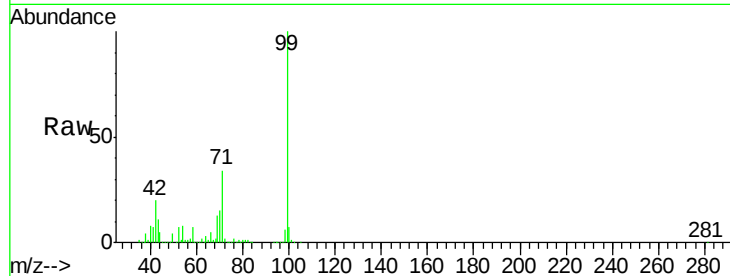
2-Fluorophenol
Concen: 126.26 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.00 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	55.6	83.4
63	34.9	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: 135.08 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Tot Ion: 99 Resp: 1744283

Ion Ratio Lower Upper

99 100

42 20.2 14.9 22.3

71 33.7 24.7 37.1

Instrument :

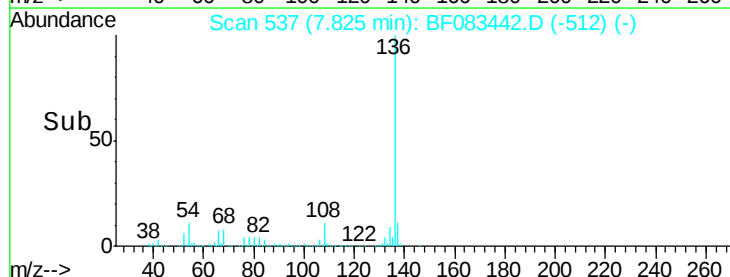
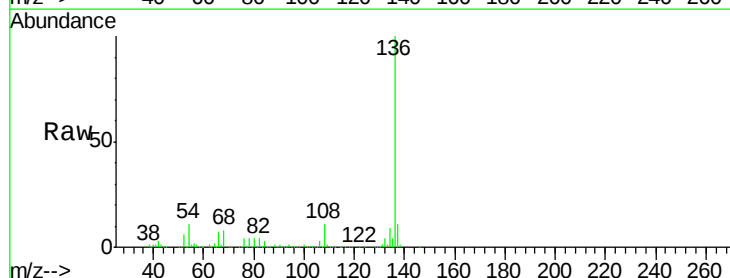
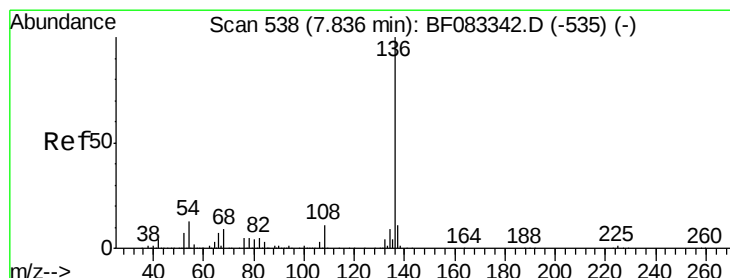
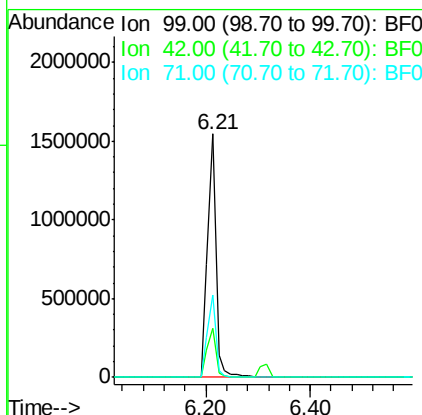
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ClientSampleId :

SB-P3WC-03(0-8)

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.82 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Tgt Ion: 136 Resp: 561416

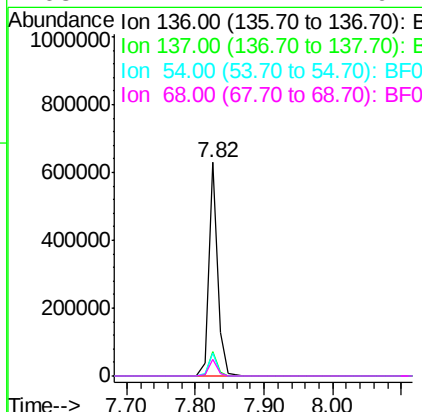
Ion Ratio Lower Upper

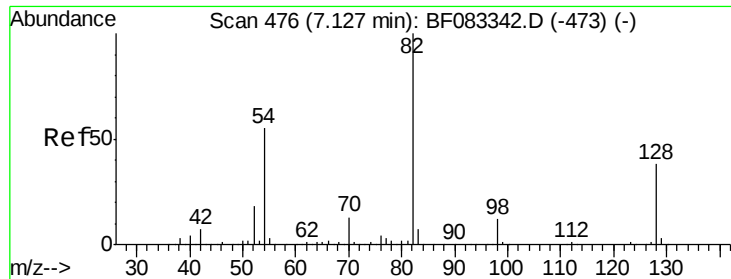
136 100

137 11.2 9.0 13.4

54 10.9 10.1 15.1

68 7.7 7.1 10.7





#23
 Nitrobenzene-d5
 Concen: 85.90 ng
 RT: 7.12 min Scan# 475
 Delta R.T. -0.01 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

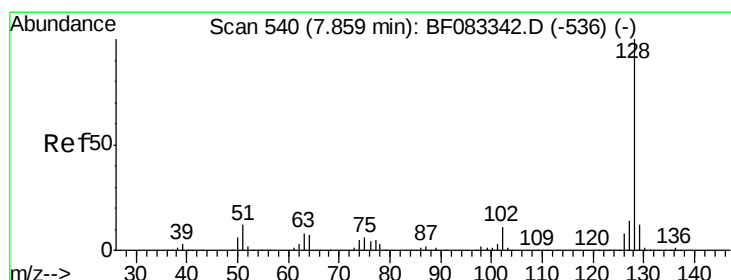
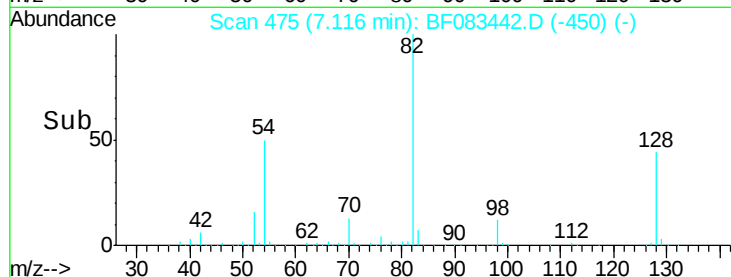
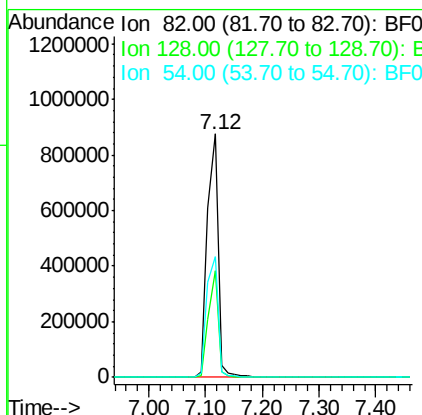
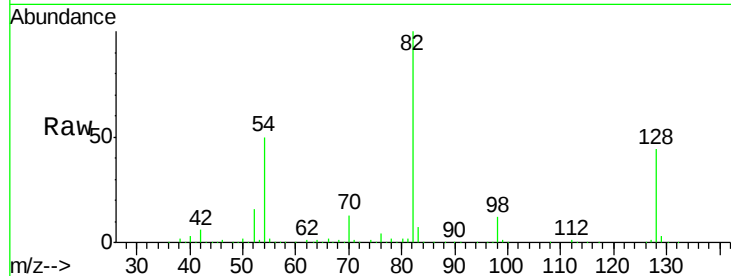
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)

Tot Ion: 82 Resp: 1097013

Ion	Ratio	Lower	Upper
82	100		
128	43.6	30.6	46.0
54	49.8	43.8	65.6

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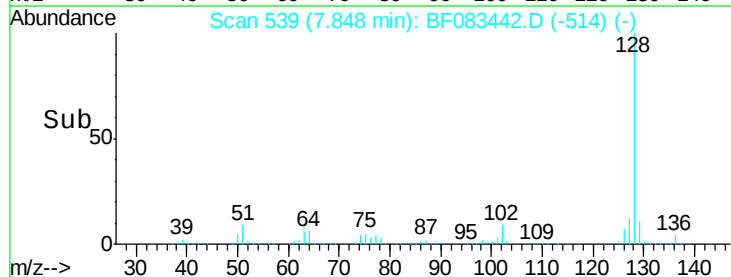
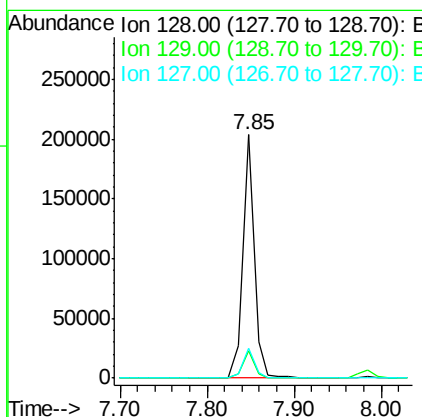
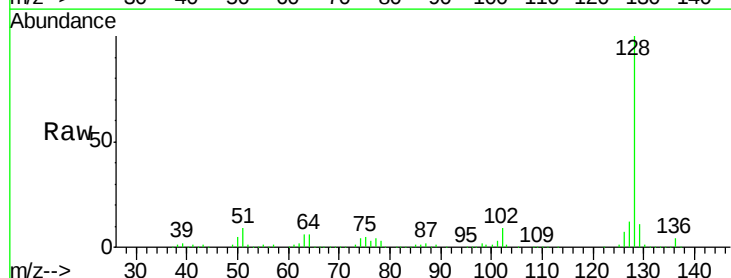
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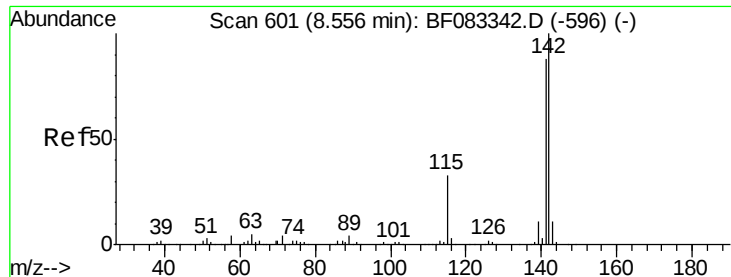


#31
 Naphthalene
 Concen: 6.07 ng
 RT: 7.85 min Scan# 539
 Delta R.T. -0.01 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Tgt Ion: 128 Resp: 184769

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.7	14.5
127	12.4	11.0	16.4





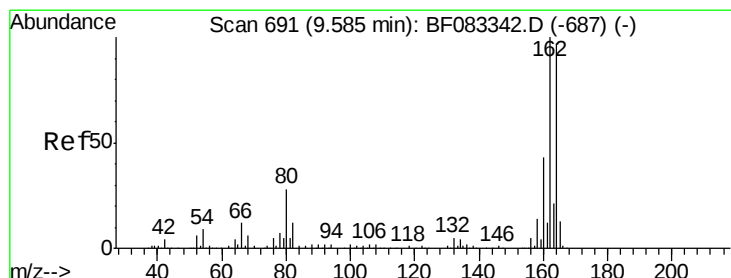
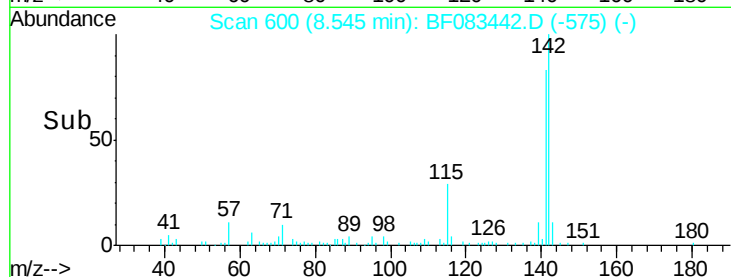
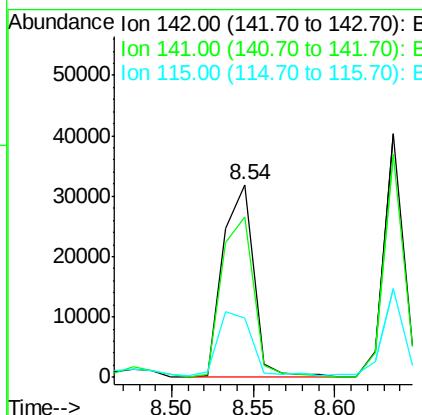
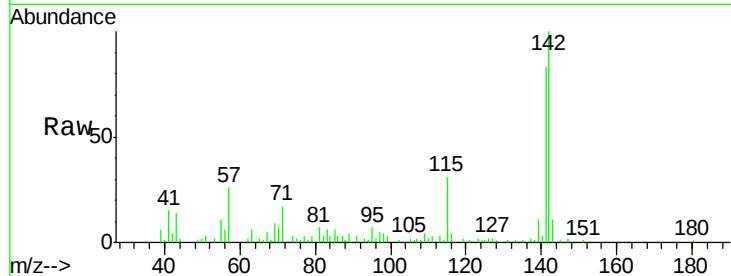
#37
2-Methylnaphthalene
Concen: 2.05 ng
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

Tot Ion	Ratio	Lower	Upper
142	100		
141	83.1	70.6	105.8
115	30.6	26.2	39.2

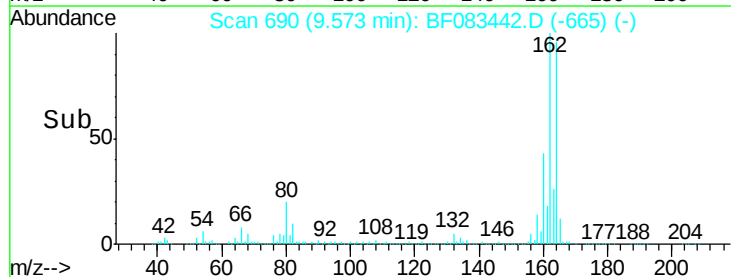
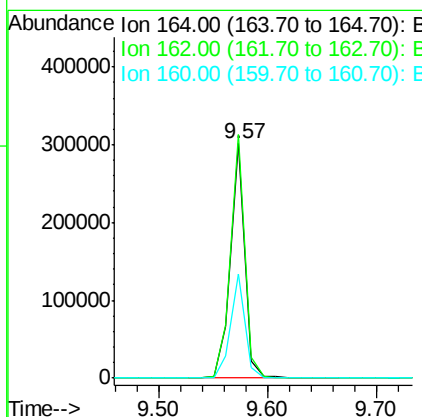
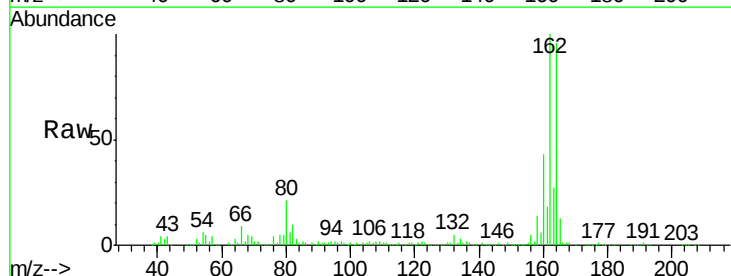
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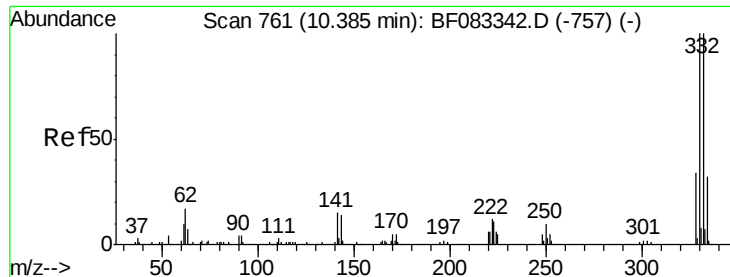
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.6	123.8
160	44.2	35.3	52.9





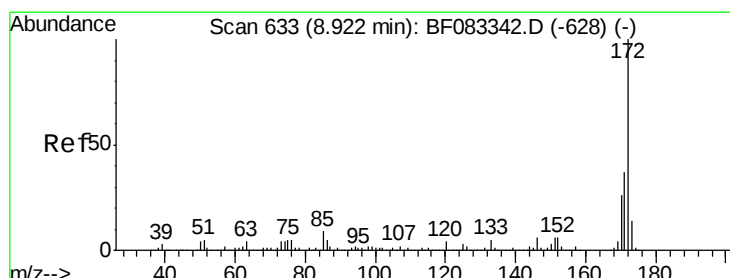
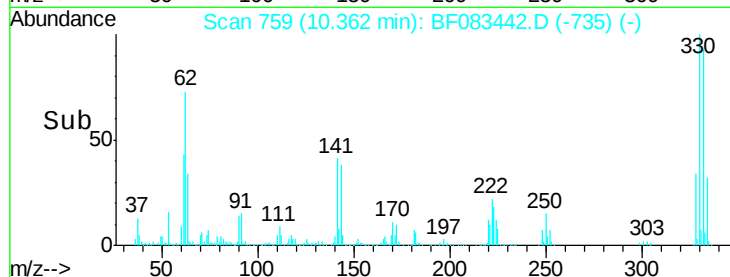
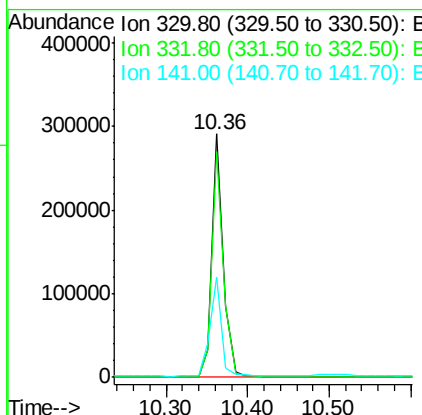
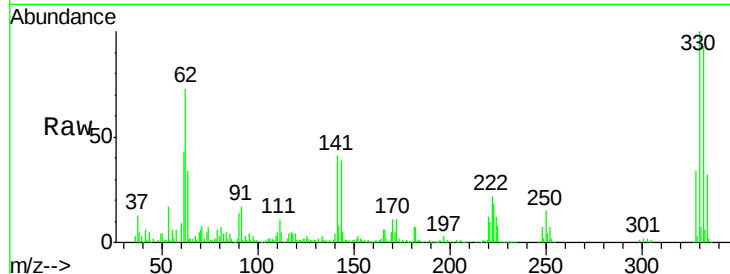
#41
 2,4,6-Tribromophenol
 Concen: 106.79 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	290922		
332	94.4	77.8	116.6	
141	41.6	29.4	44.0	

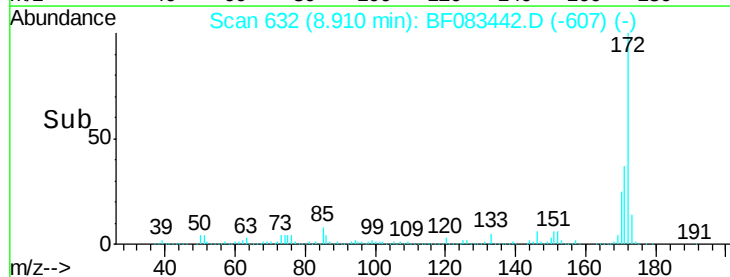
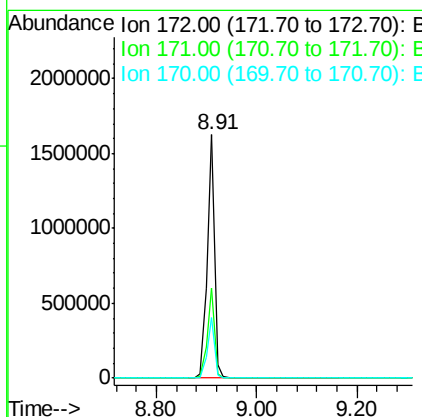
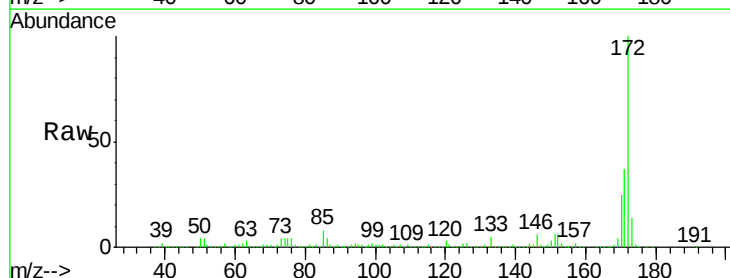
Manual Integrations
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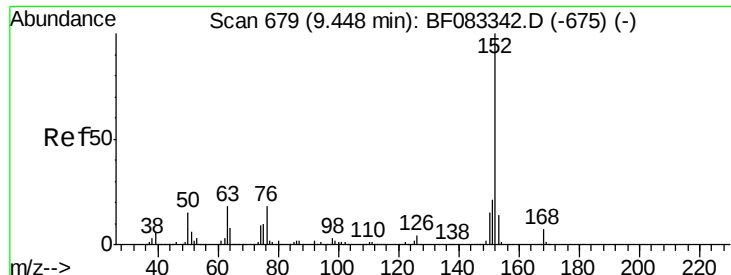
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 12/3/2015 7:10:00 PM



#44
 2-Fluorobiphenyl
 Concen: 85.81 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1634152		
171	36.9	29.4	44.0	
170	24.9	20.4	30.6	





#48

Acenaphthylene

Concen: 3.18 ng

RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Instrument :

BNA_F

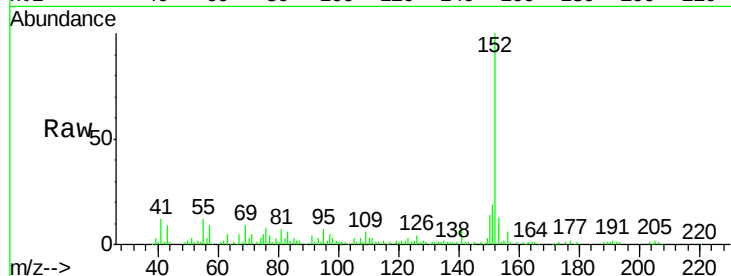
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SB-P3WC-03(0-8)

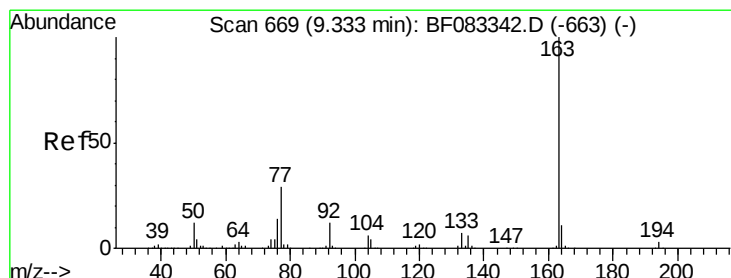
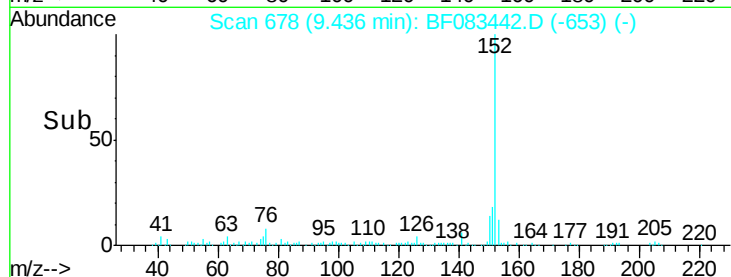
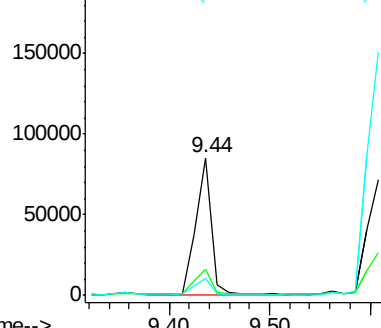
Tot Ion:	152	Resp:	91982
Ion Ratio	Lower	Upper	
152	100		
151	19.1	16.7	25.1
153	12.8	11.2	16.8

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12/3/2015 7:10:00 PM



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.61 ng

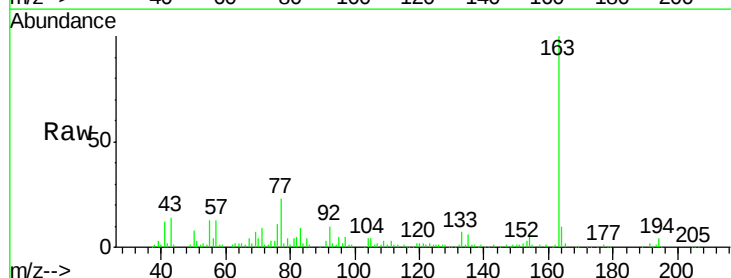
RT: 9.31 min Scan# 667

Delta R.T. -0.02 min

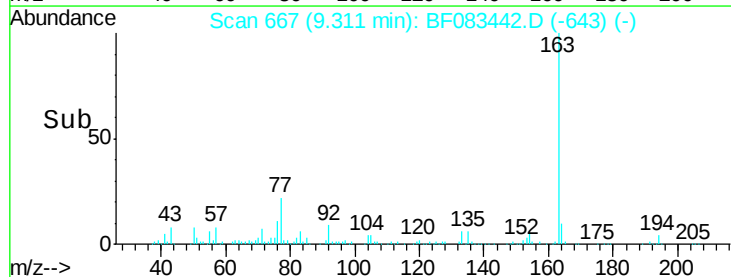
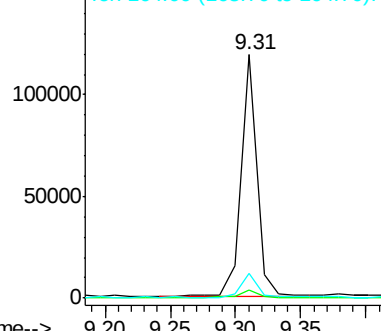
Lab File: BF083442.D

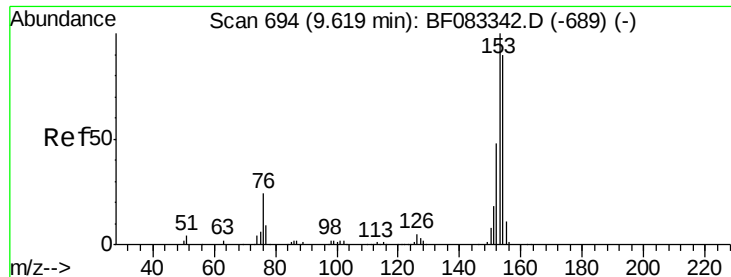
Acq: 3 Dec 2015 4:21

Tgt Ion:	163	Resp:	101601
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.7	4.1
164	10.4	8.8	13.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 9.03 ng

RT: 9.61 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Instrument :

BNA_F

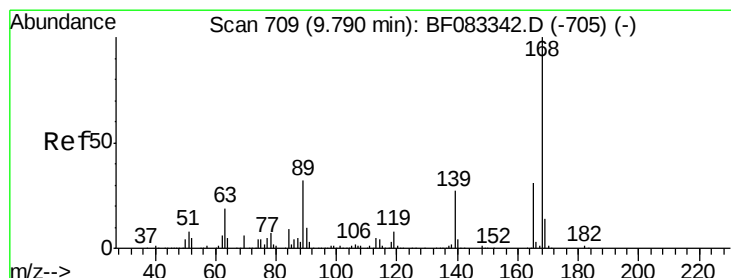
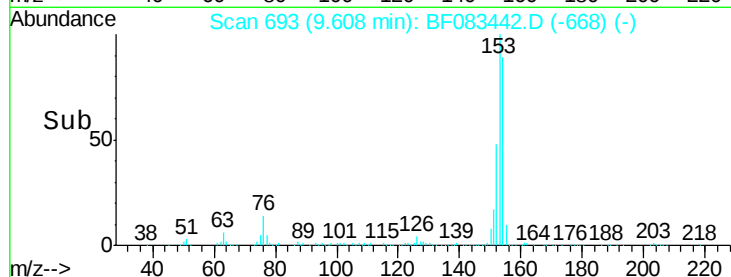
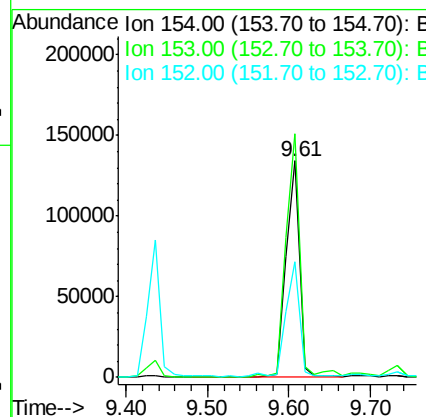
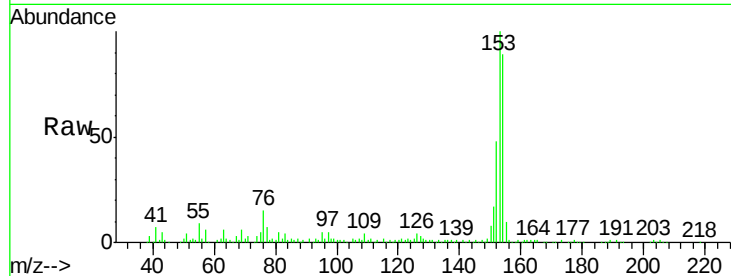
ClientSampleId :

SB-P3WC-03(0-8)

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12/3/2015 7:10:00 PM

Tot Ion:	154	Resp:	153672
Ion Ratio	Lower	Upper	
154	100		
153	112.4	89.3	133.9
152	53.7	42.5	63.7



#54

Dibenzofuran

Concen: 2.77 ng

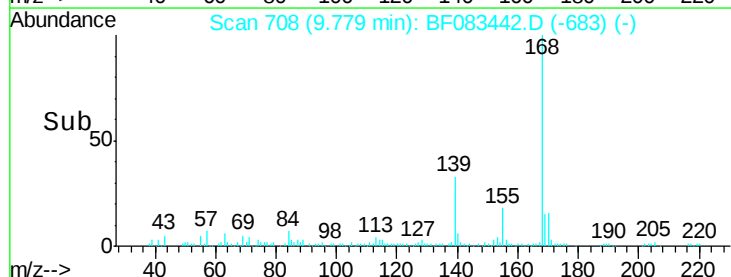
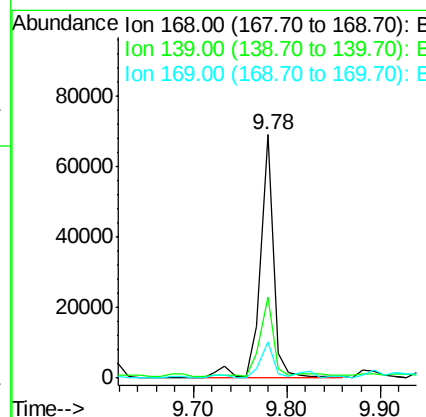
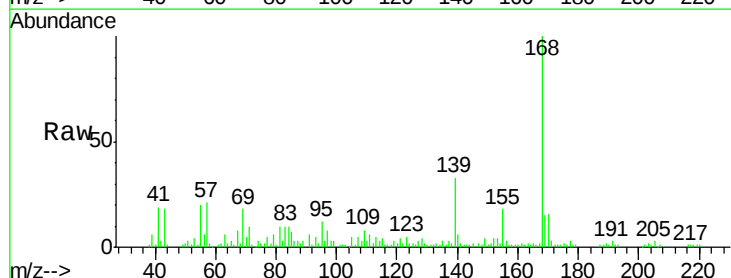
RT: 9.78 min Scan# 708

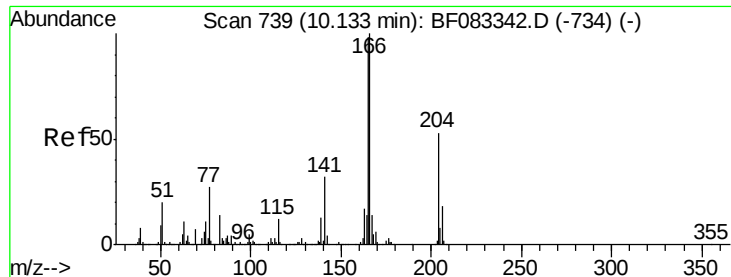
Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Tgt Ion:	168	Resp:	69100
Ion Ratio	Lower	Upper	
168	100		
139	33.3	32.7	49.1
169	14.7	11.1	16.7





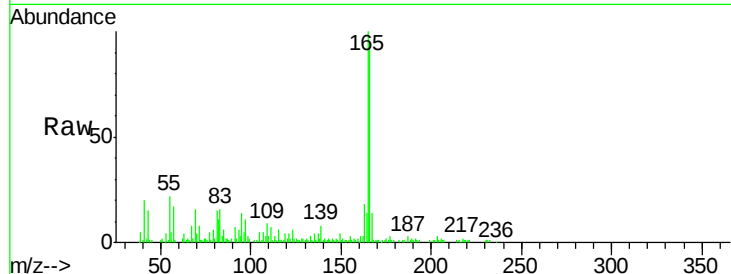
#57
Fluorene
 Concen: 5.36 ng/ml
 RT: 10.12 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	104.2	78.3	117.5		
167	14.5	11.1	16.7		

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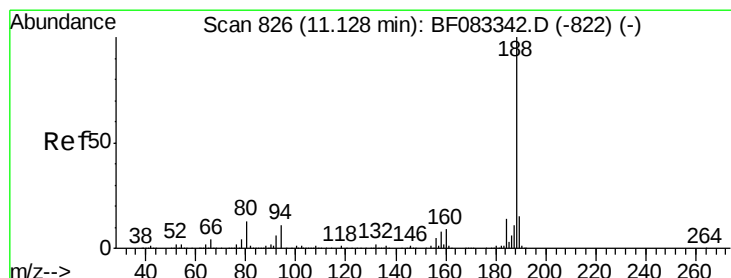
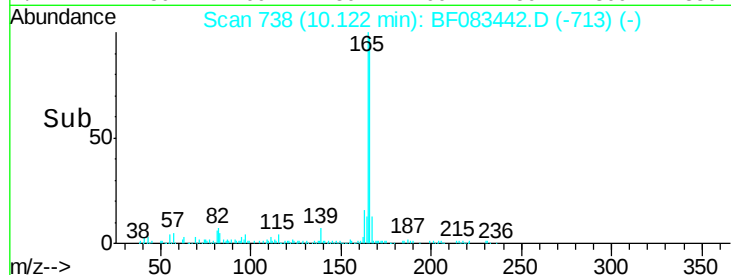
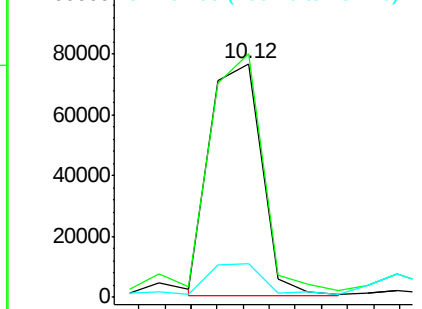


Abundance

Ion 166.00 (165.70 to 166.70): E

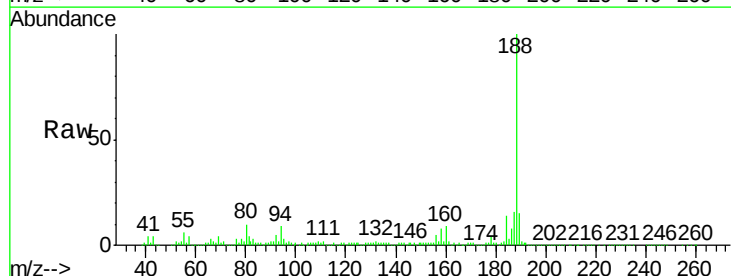
Ion 165.00 (164.70 to 165.70): E

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: BF083442.D
 Acq: 3 Dec 2015 4:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	8.7	8.7	13.1#		
80	10.0	10.3	15.5#		

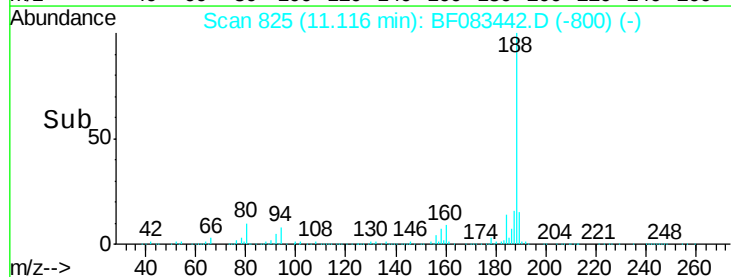
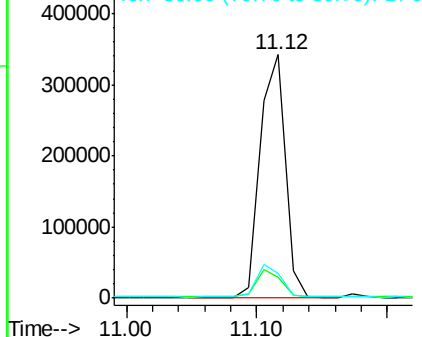


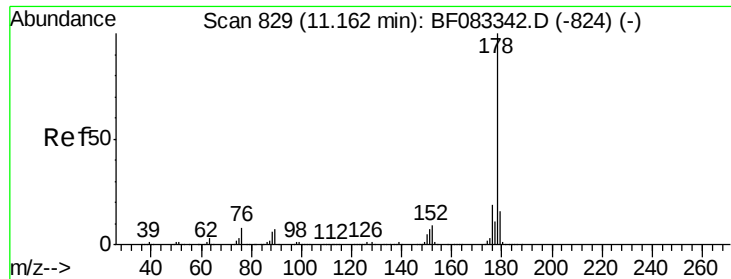
Abundance

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





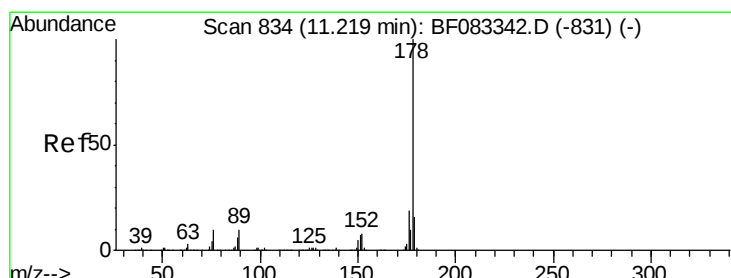
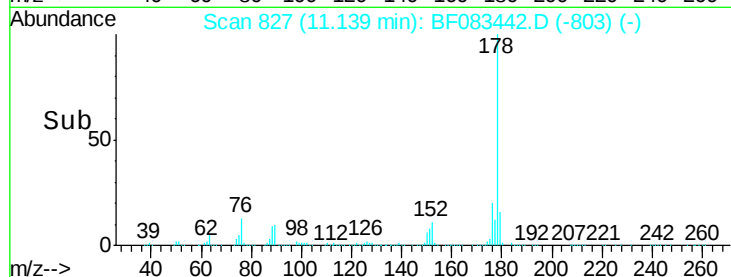
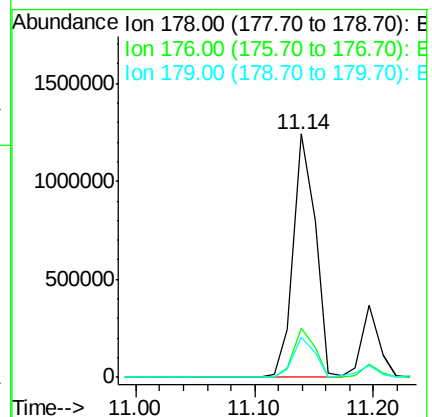
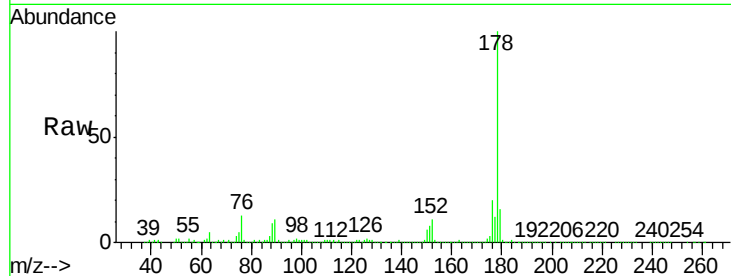
#70
Phenanthrene
Concen: 57.69 ng
RT: 11.14 min Scan# 827
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

Tot Ion:178 Resp: 1593789
Ion Ratio Lower Upper
178 100
176 20.2 15.3 22.9
179 16.4 12.4 18.6

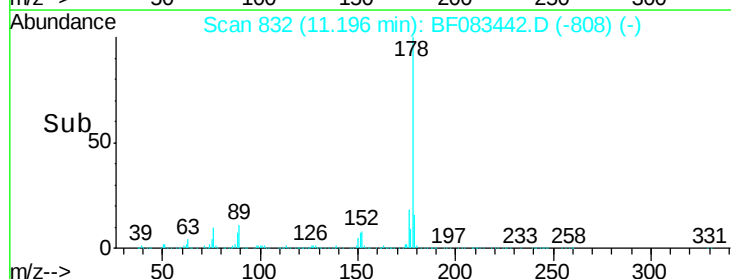
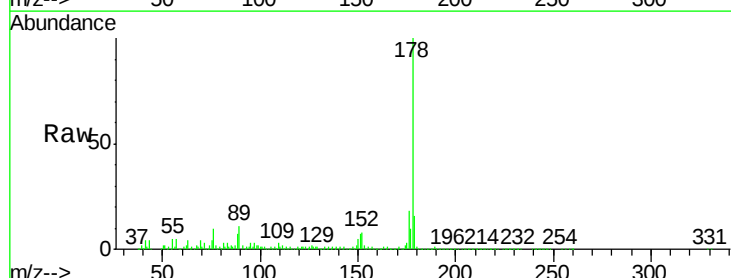
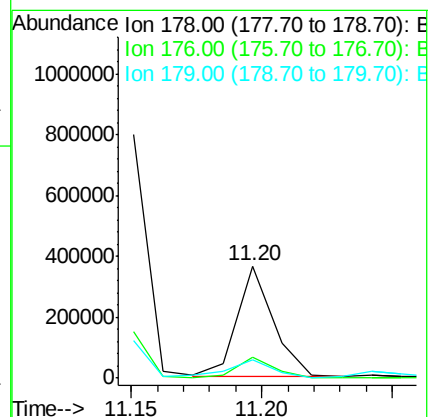
Manual Integrations
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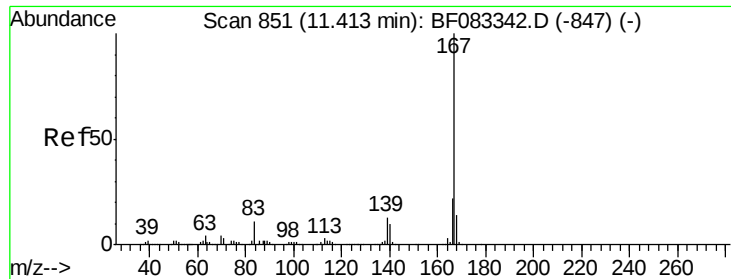
Mmdadoda
12/3/2015 7:10:00 PM



#71
Anthracene
Concen: 12.82 ng
RT: 11.20 min Scan# 832
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Tgt Ion:178 Resp: 356665
Ion Ratio Lower Upper
178 100
176 18.2 15.6 23.4
179 16.1 12.8 19.2





#72

Carbazole

Concen: 6.33 ng

RT: 11.39 min Scan# 849

Delta R.T. -0.02 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Instrument :

BNA_F

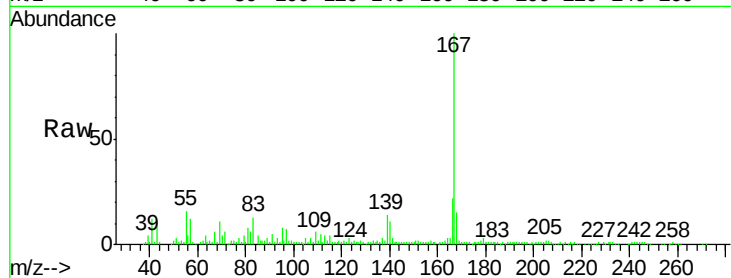
ClientSampleId :

SB-P3WC-03(0-8)

Tot Ion:	167	Resp:	158110
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.4	26.0
139	13.9	10.5	15.7

Manual Integrations
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12/3/2015 7:10:00 PM

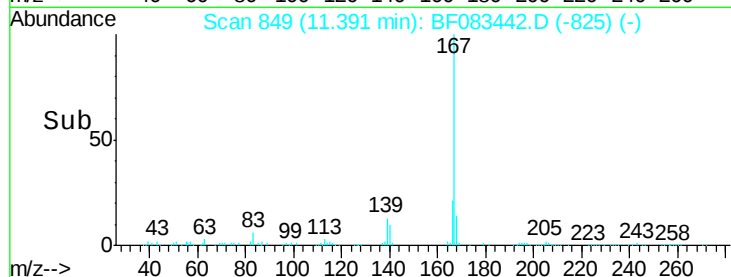


Abundance Ion 167.00 (166.70 to 167.70): E

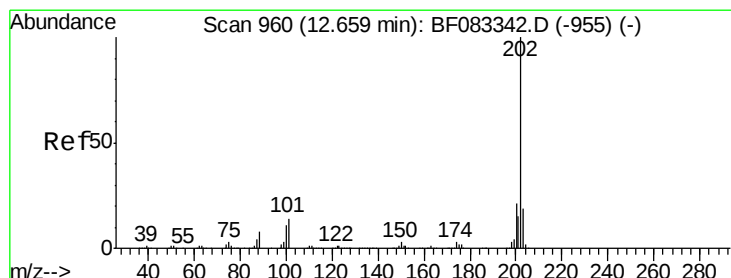
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



Time-->



#74

Fluoranthene

Concen: 80.36 ng

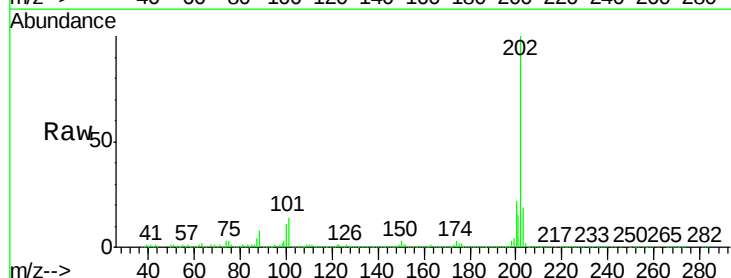
RT: 12.65 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Tgt Ion:	202	Resp:	2301309
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	34.5
203	18.9	0.0	38.7

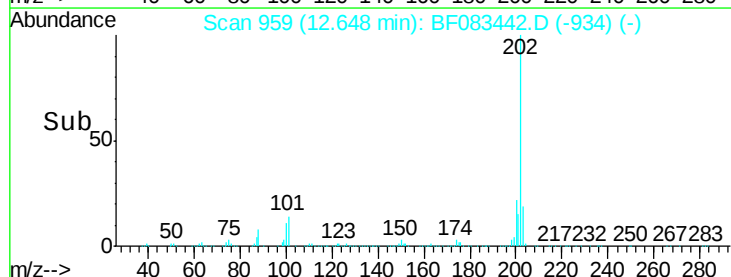


Abundance Ion 202.00 (201.70 to 202.70): E

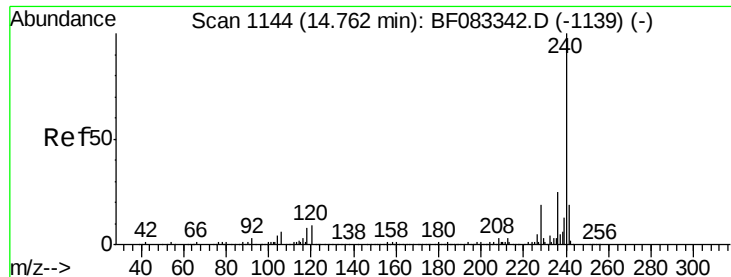
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.74 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Instrument :

BNA_F

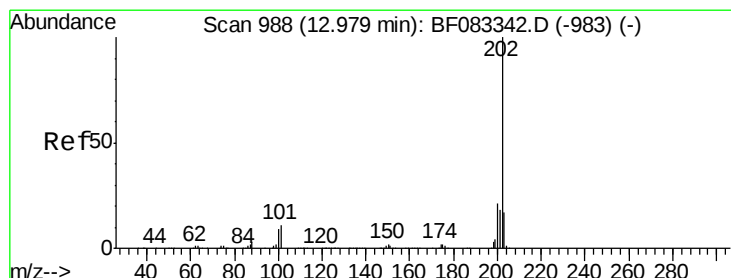
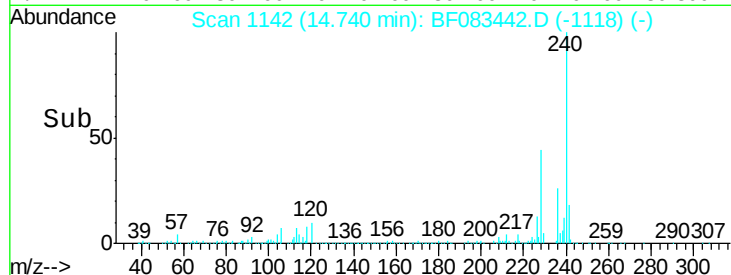
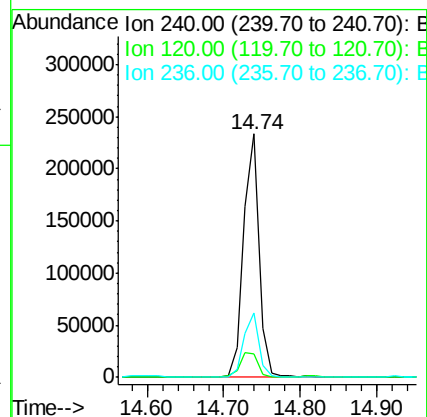
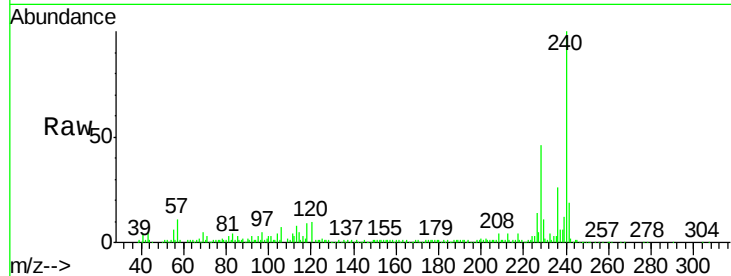
ClientSampleId :

SB-P3WC-03(0-8)

Tot Ion:	240	Resp:	334834
Ion Ratio	Lower	Upper	
240	100		
120	9.8	6.9	10.3
236	26.3	19.8	29.6

Manual Integrations
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12/3/2015 7:10:00 PM



#77

Pyrene

Concen: 89.41 ng

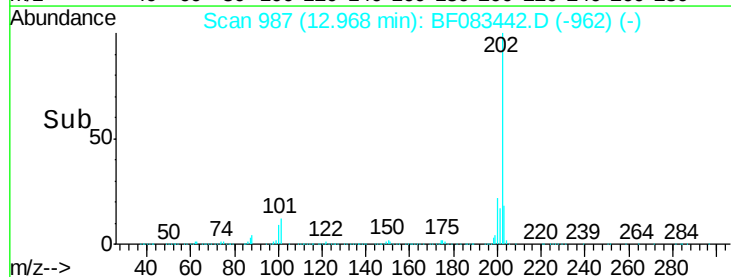
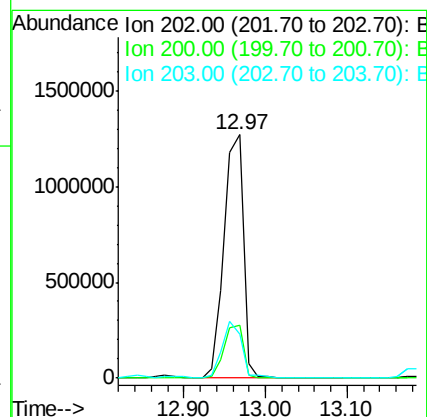
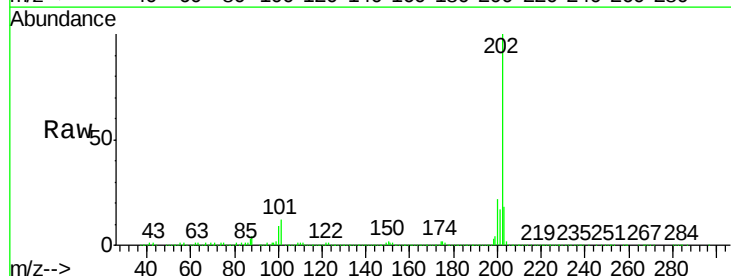
RT: 12.97 min Scan# 987

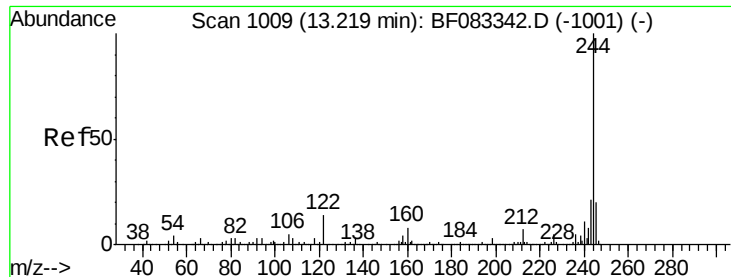
Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Tgt Ion:	202	Resp:	2090713
Ion Ratio	Lower	Upper	
202	100		
200	21.8	16.9	25.3
203	18.2	13.9	20.9





#78

Terphenyl-d14

Concen: 93.71 ng

RT: 13.21 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)

Tot Ion:244 Resp: 1315670

Ion Ratio Lower Upper

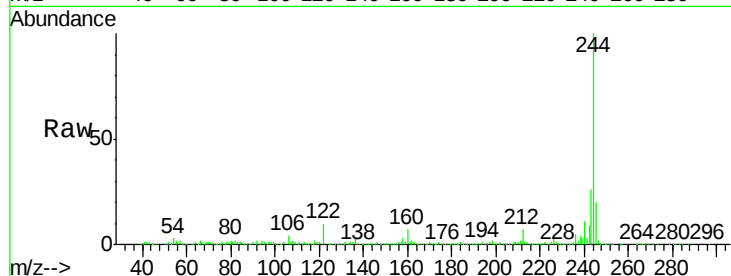
244 100

212 7.5 5.8 8.8

122 10.3 11.0 16.4#

Manual Integrations
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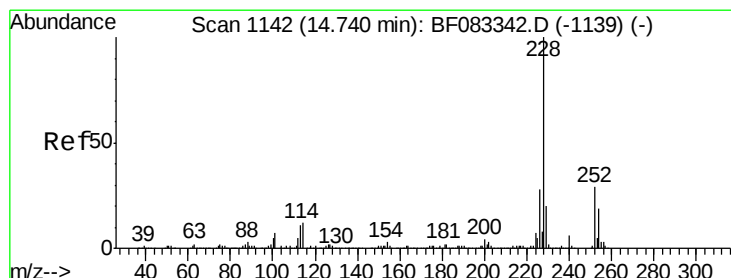
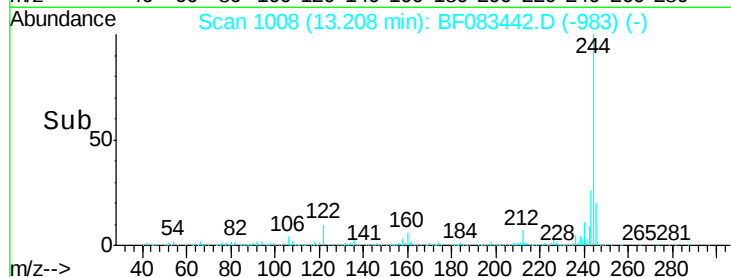
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.21

Time-->



#80

Benzo(a)anthracene

Concen: 42.56 ng

RT: 14.72 min Scan# 1140

Delta R.T. -0.02 min

Lab File: BF083442.D

Acq: 3 Dec 2015 4:21

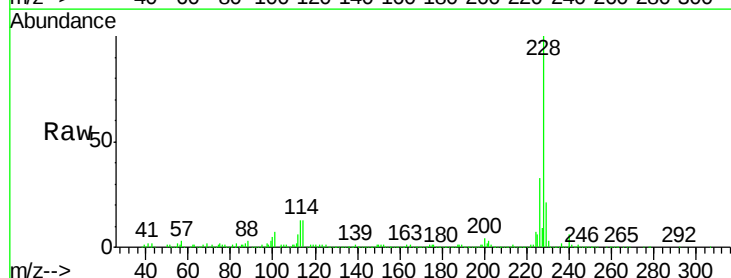
Tgt Ion:228 Resp: 873118

Ion Ratio Lower Upper

228 100

226 32.8 22.2 33.4

229 21.5 16.1 24.1



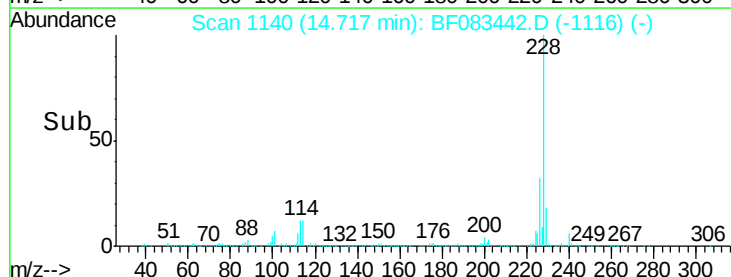
Abundance Ion 228.00 (227.70 to 228.70): E

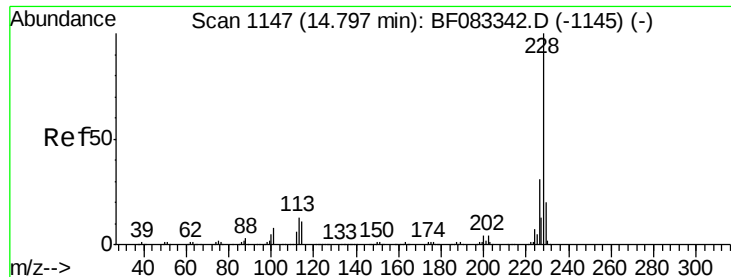
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

14.72

Time-->





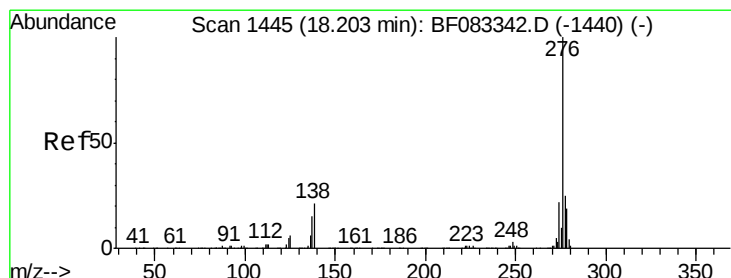
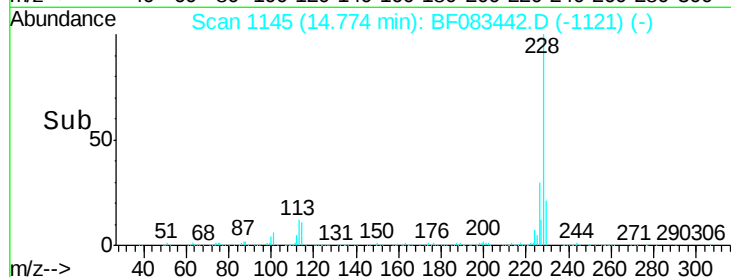
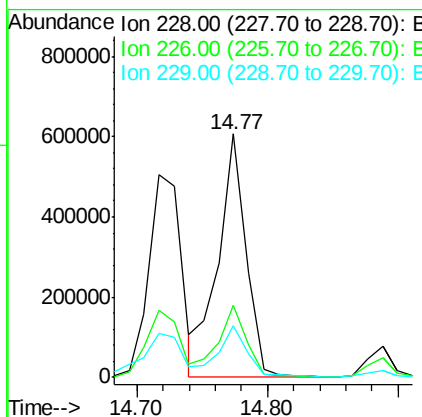
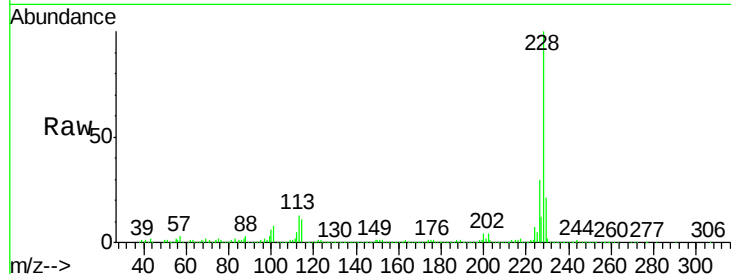
#82
 Chrysene
 Concen: 45.77 ng
 RT: 14.77 min Scan# 1145
 Delta R.T. -0.02 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
228	100			
226	29.8	24.6	37.0	
229	21.3	16.2	24.2	

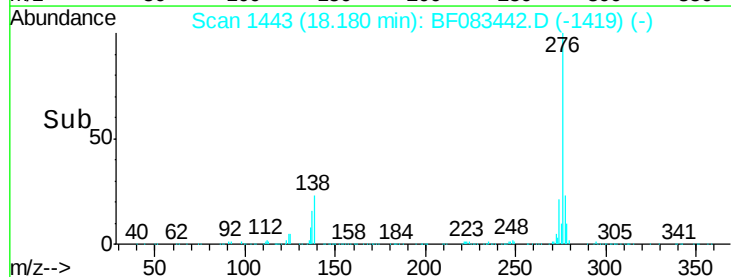
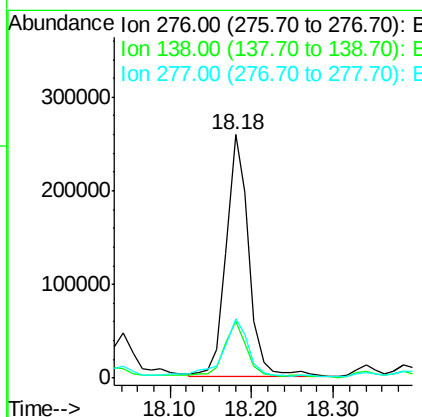
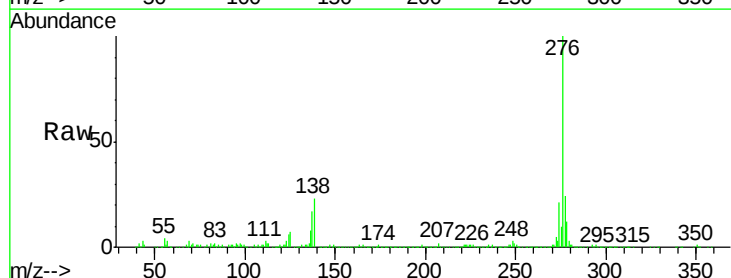
Manual Integrations
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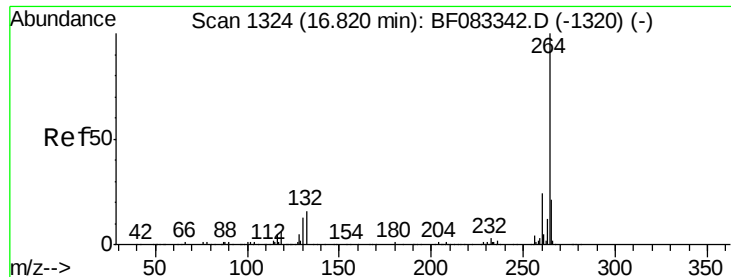
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 12/3/2015 7:10:00 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 34.29 ng
 RT: 18.18 min Scan# 1443
 Delta R.T. -0.02 min
 Lab File: BF083442.D
 Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	22.3	21.2	31.8	
277	26.4	20.0	30.0	





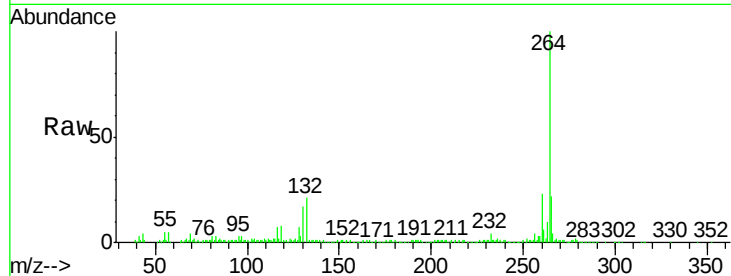
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.4
265	22.3	16.8	25.2

Manual Integrations
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Mmdadoda
12/3/2015 7:10:00 PM

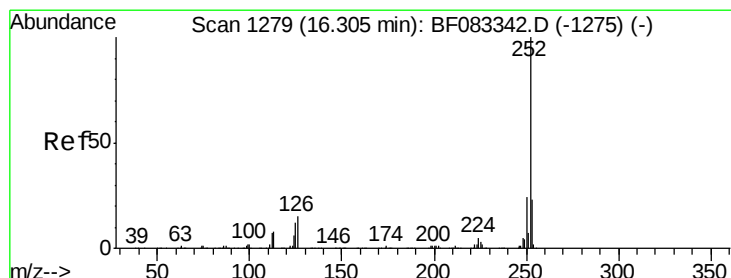
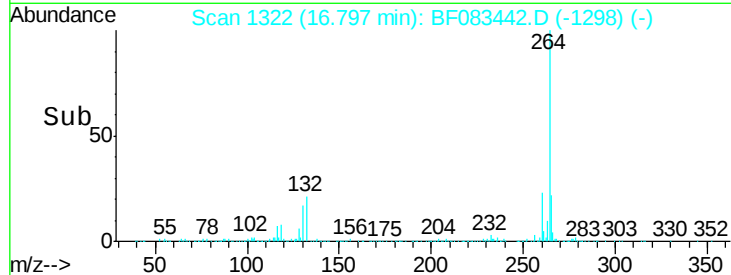
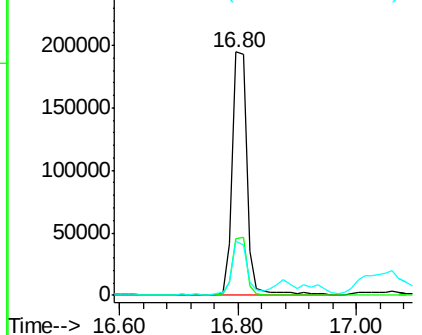


Abundance

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: 51.27 ng m
RT: 16.29 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

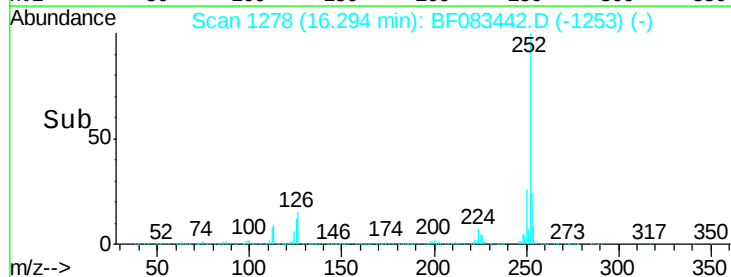
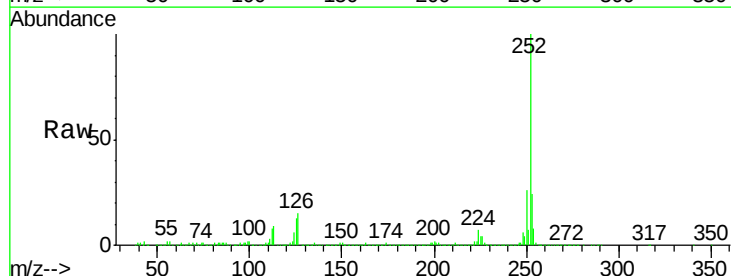
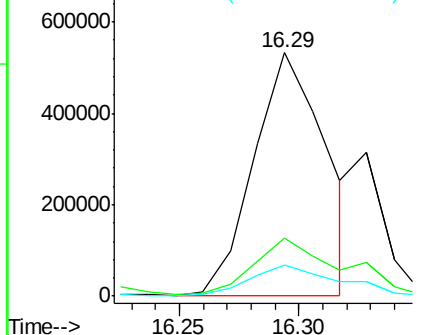
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	12.9	9.6	14.4

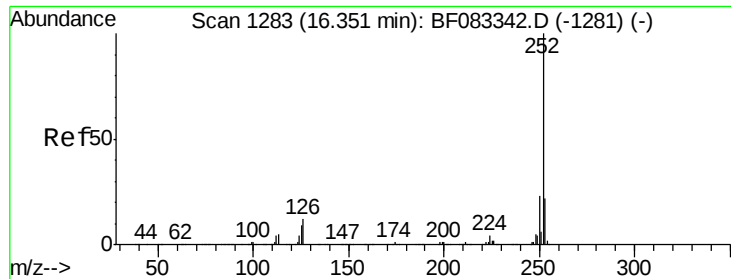
Abundance

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





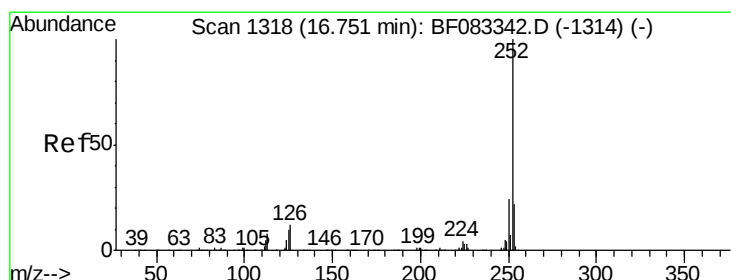
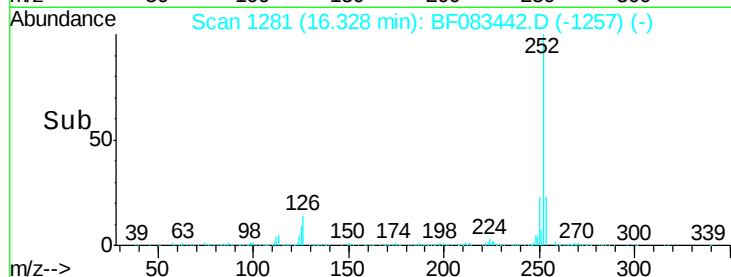
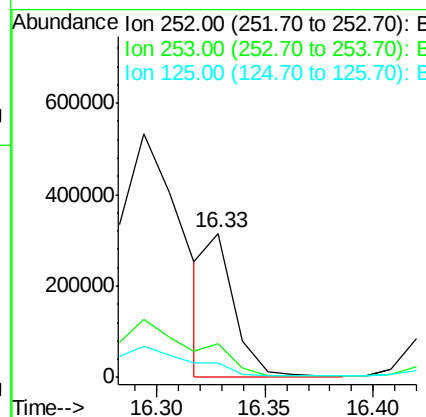
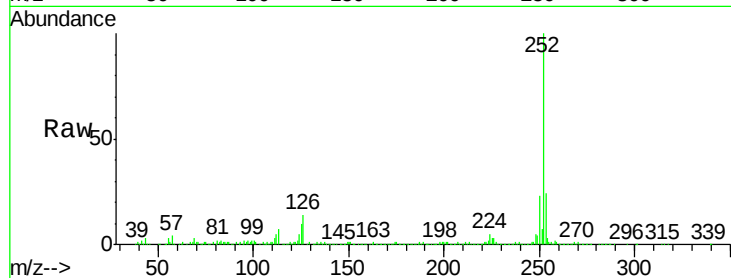
#88
Benzo(k)fluoranthene
Concen: 13.94 ng m
RT: 16.33 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.0
125	9.8	7.5	11.3

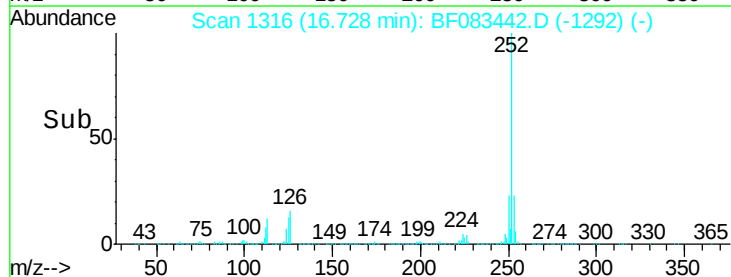
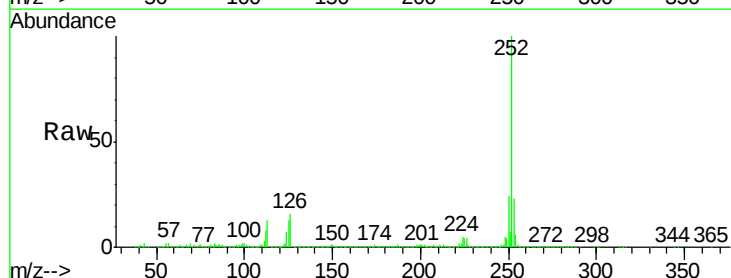
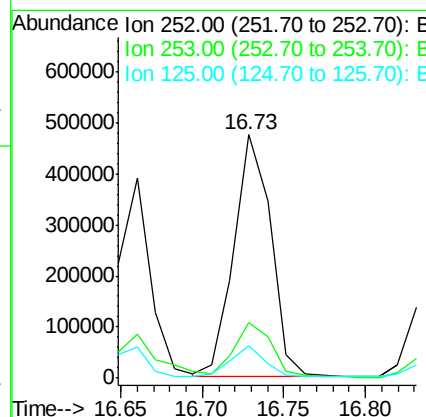
Manual Integrations
APPROVED

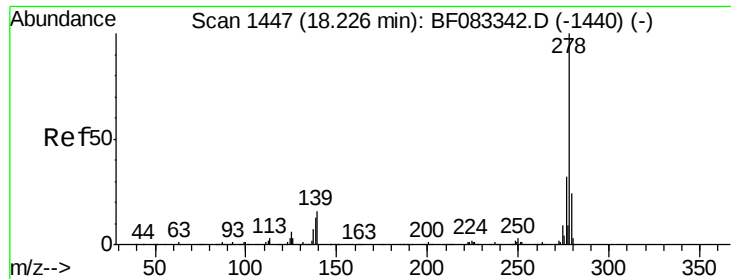
Mmdadoda
12/3/2015 7:10:00 PM



#89
Benzo(a)pyrene
Concen: 39.56 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	13.4	7.8	11.8#





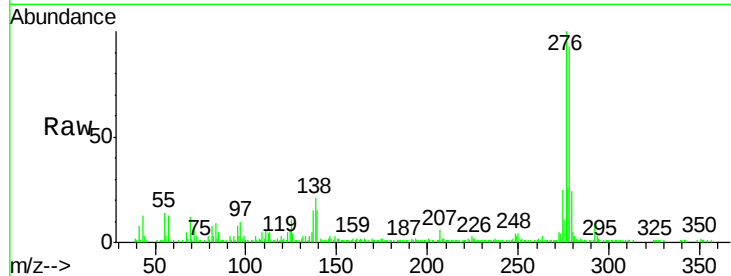
#90
Dibenzo(a,h)anthracene
Concen: 7.37 ng m
RT: 18.20 min Scan# 1445
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)

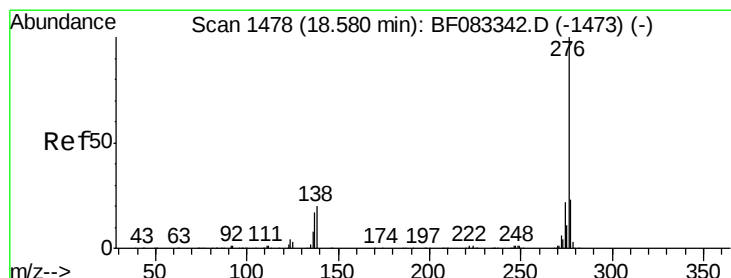
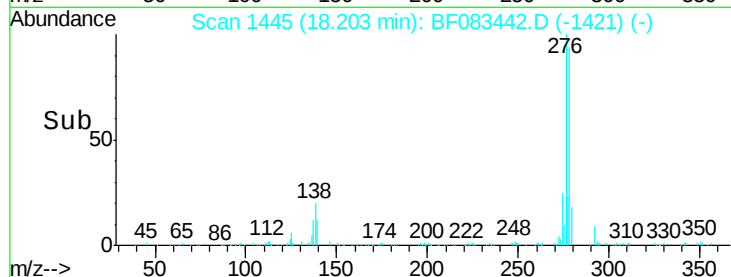
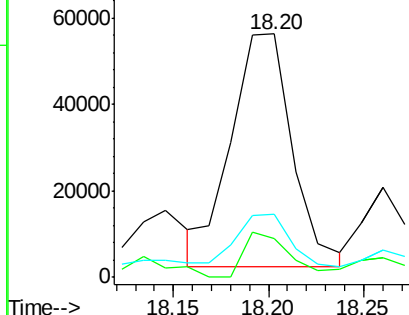
Tot Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.1	19.7
279	25.8	19.2	28.8

Manual Integrations
APPROVED

Mmdadoda
12/3/2015 7:10:00 PM



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(g,h,i)perylene
Concen: 31.03 ng
RT: 18.56 min Scan# 1476
Delta R.T. -0.02 min
Lab File: BF083442.D
Acq: 3 Dec 2015 4:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	28.0
138	22.6	16.1	24.1

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

