

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
 Data File : BF083675.D
 Acq On : 10 Dec 2015 9:44
 Operator : UM/IZ
 Sample : G4582-06DL 2X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)DL

Manual Integrations
 APPROVED

MMdadoda
 12/10/2015 5:50:52 PM

Quant Time: Dec 10 12:40:14 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	146241	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	546915	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	252629	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	383084	20.00	ng	-0.02
75) Chrysene-d12	16.97	240	322154	20.00	ng	-0.02
86) Perylene-d12	18.63	264	267737	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.96	112	780455	80.94	ng	-0.01
7) Phenol-d6	5.24	99	1085484	84.26	ng	-0.03
23) Nitrobenzene-d5	6.51	82	643929	54.94	ng	-0.02
41) 2,4,6-Tribromophenol	11.65	330	141930	63.06	ng	-0.03
44) 2-Fluorobiphenyl	9.32	172	970033	54.04	ng	-0.02
78) Terphenyl-d14	15.39	244	659948	48.20	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.61	128	1445772	49.91	ng	99
37) 2-Methylnaphthalene	8.72	142	307617	16.91	ng	99
45) 1,1'-Biphenyl	9.47	154	180032	8.20	ng	99
48) Acenaphthylene	10.14	152	114226	4.18	ng	# 91
49) Dimethylphthalate	10.01	163	168898	8.40	ng	100
51) Acenaphthene	10.42	154	550329	35.16	ng	99
57) Fluorene	11.25	166	320628	16.93	ng	98
70) Phenanthrene	12.81	178	1449549	65.86	ng	99
71) Anthracene	12.89	178	441933	19.38	ng	98
74) Fluoranthene	14.73	202	539715	23.97	ng	99
77) Pyrene	15.08	202	726968	31.34	ng	97
80) Benzo(a)anthracene	16.97	228	265776m	14.10	ng	
82) Chrysene	17.01	228	198602	10.51	ng	98
85) Indeno(1,2,3-cd)pyrene	19.89	276	46420	3.64	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	151480m	9.94	ng	
88) Benzo(k)fluoranthene	18.28	252	44542m	2.65	ng	
89) Benzo(a)pyrene	18.58	252	143043m	9.61	ng	
91) Benzo(g,h,i)perylene	20.25	276	45604	4.11	ng	93

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

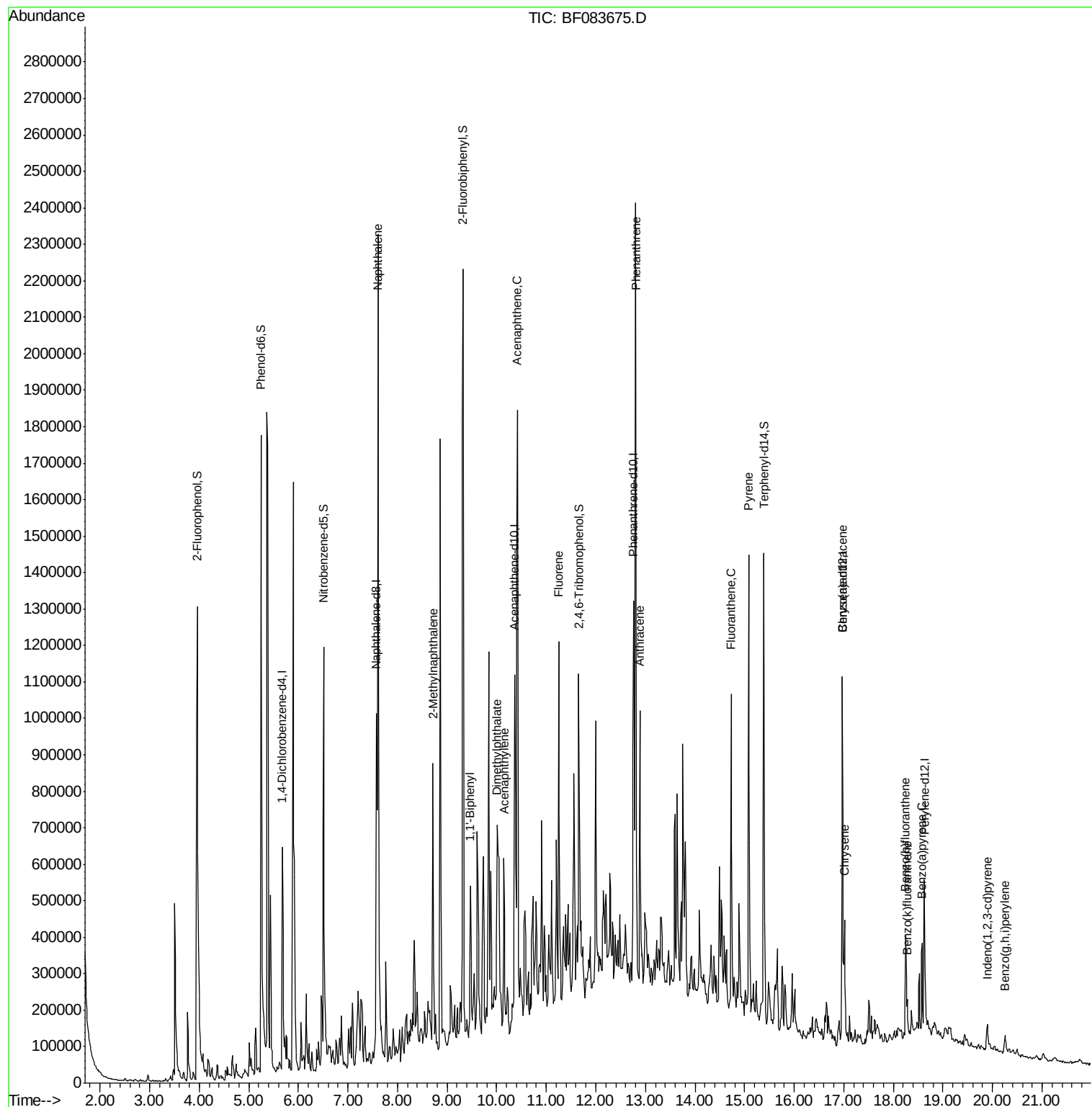
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
Data File : BF083675.D
Acq On : 10 Dec 2015 9:44
Operator : UM/IZ
Sample : G4582-06DL 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

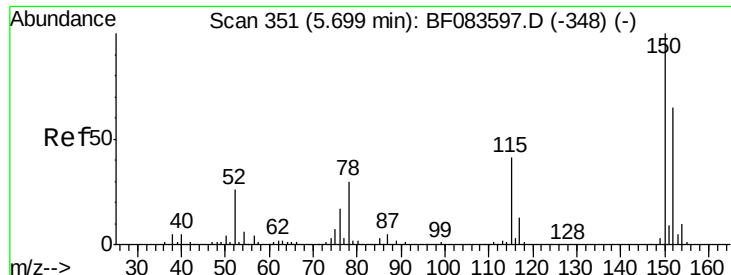
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

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Quant Time: Dec 10 12:40:14 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 09 00:23:35 2015
Response via : Initial Calibration





#1

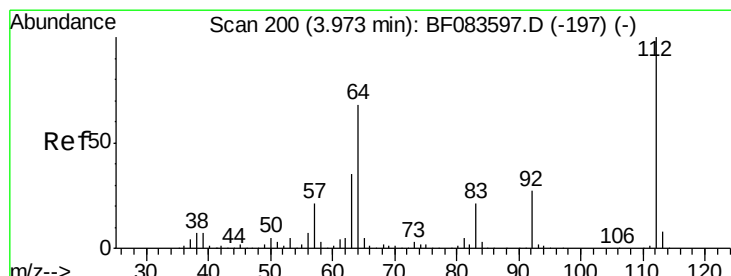
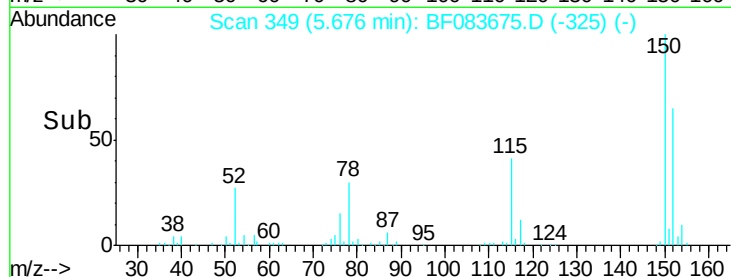
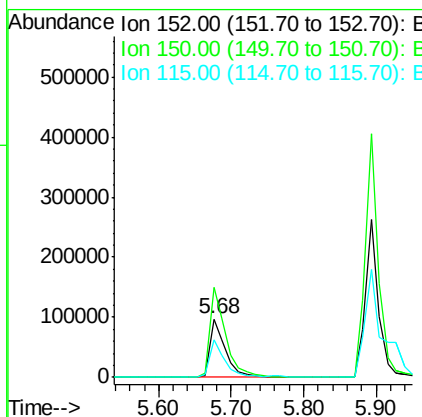
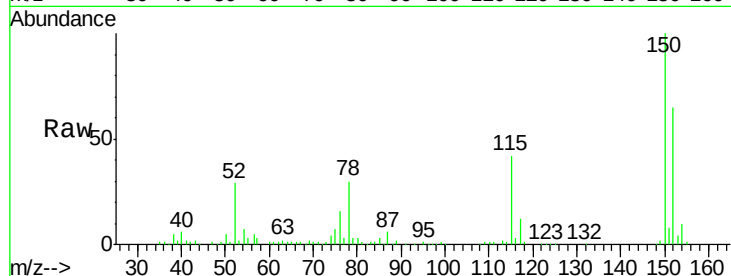
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.68 min Scan# 349
Delta R.T. -0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	126.5	189.7
115	64.0	52.3	78.5

Manual Integrations
APPROVED

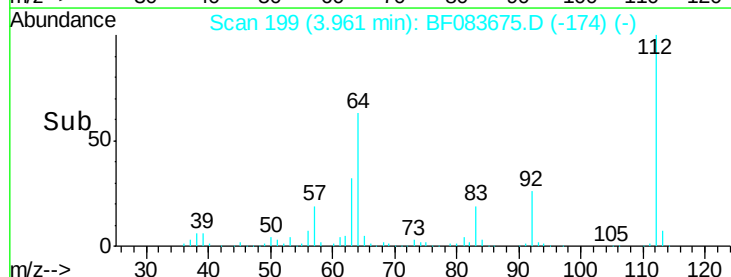
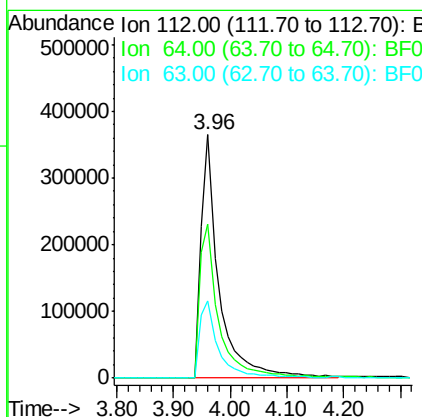
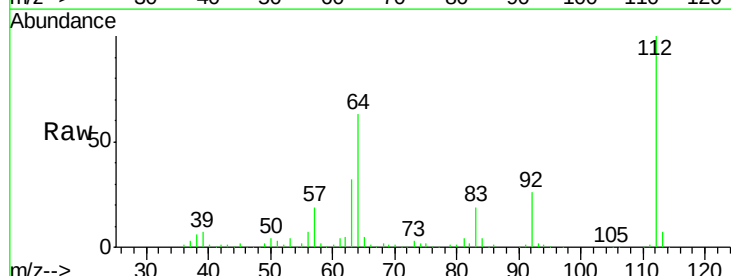
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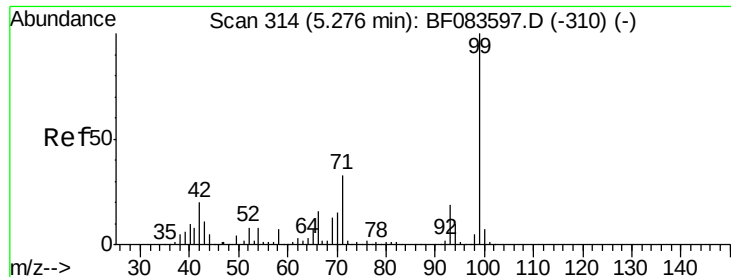


#5

2-Fluorophenol
Concen: 80.94 ng
RT: 3.96 min Scan# 199
Delta R.T. -0.01 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	50.5	75.7
63	31.9	25.8	38.6





#7

Phenol-d6

Concen: 84.26 ng

RT: 5.24 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-04(10-13)DL

Tot Ion: 99 Resp: 1085484

Ion Ratio Lower Upper

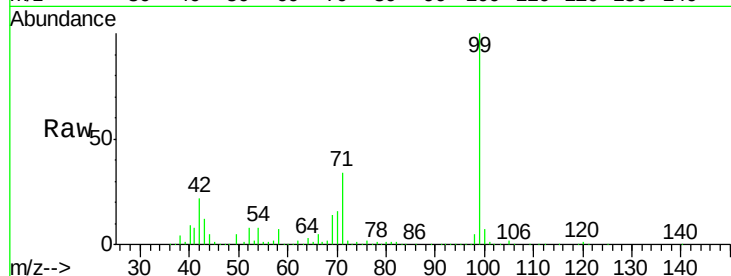
99 100

42 22.2 17.3 25.9

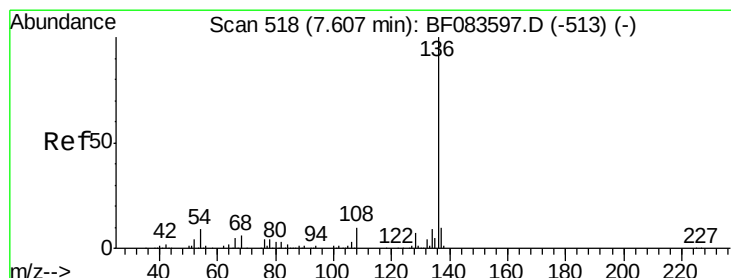
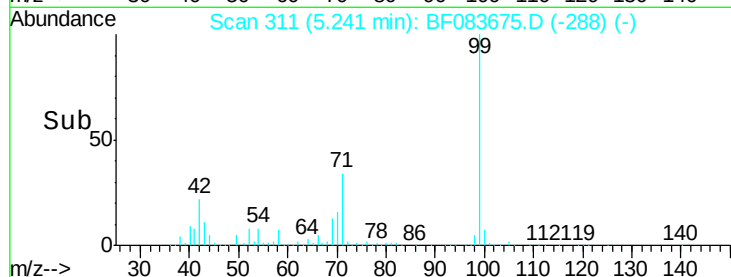
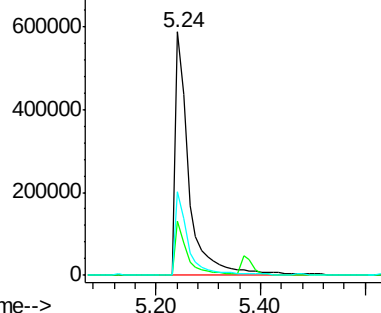
71 34.5 26.6 40.0

Manual Integrations
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.57 min Scan# 515

Delta R.T. -0.03 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Tgt Ion: 136 Resp: 546915

Ion Ratio Lower Upper

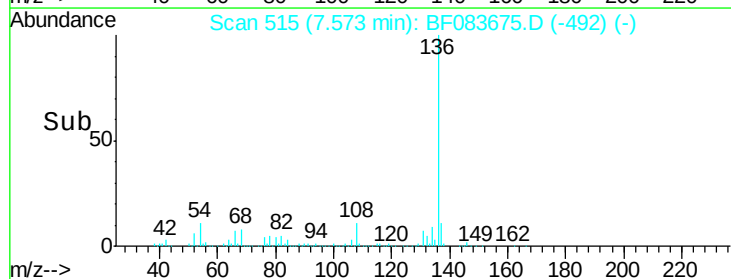
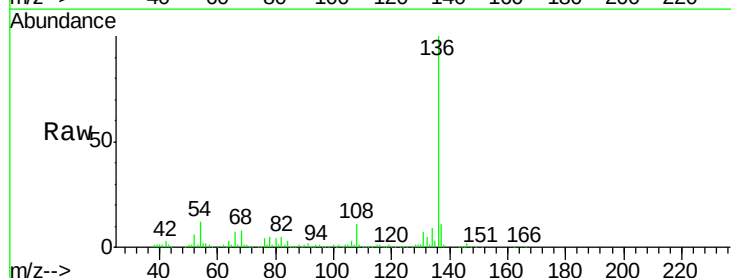
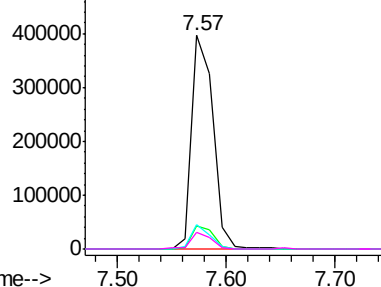
136 100

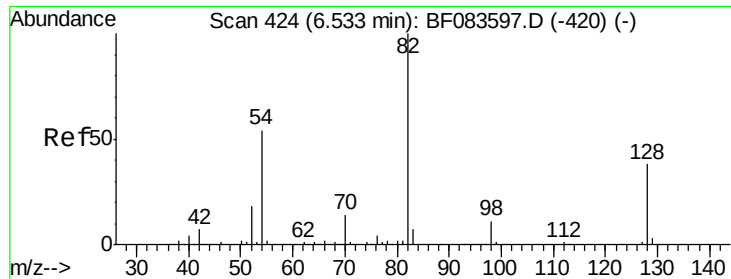
137 10.8 8.7 13.1

54 11.6 7.8 11.6

68 7.9 5.7 8.5

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





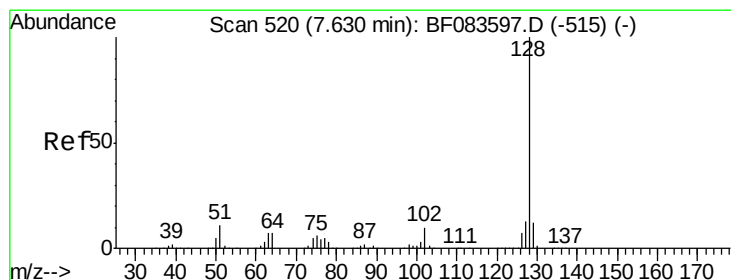
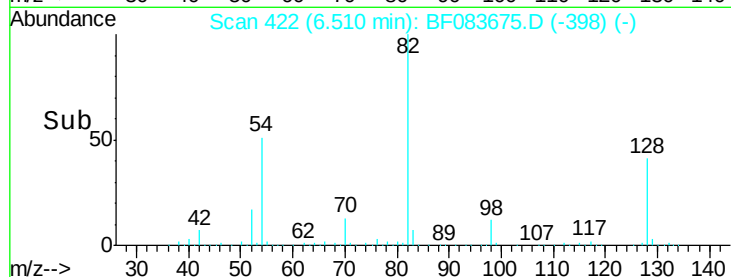
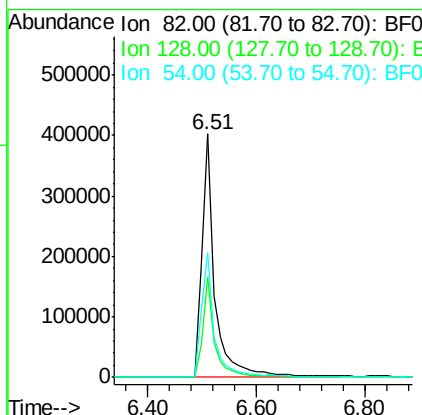
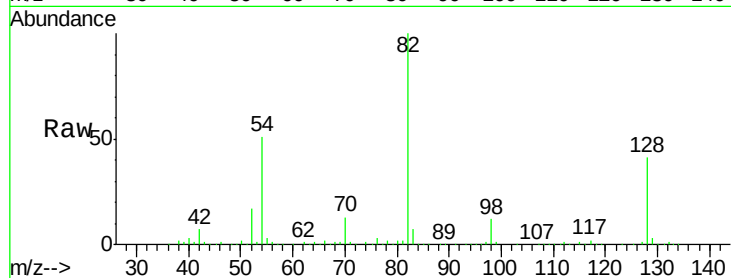
#23
 Nitrobenzene-d5
 Concen: 54.94 ng
 RT: 6.51 min Scan# 422
 Delta R.T. -0.02 min
 Lab File: BF083675.D
 Acq: 10 Dec 2015 9:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	643929		
128	41.2	30.7	46.1	
54	51.1	42.5	63.7	

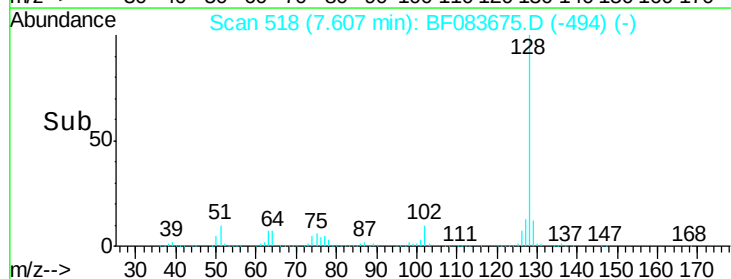
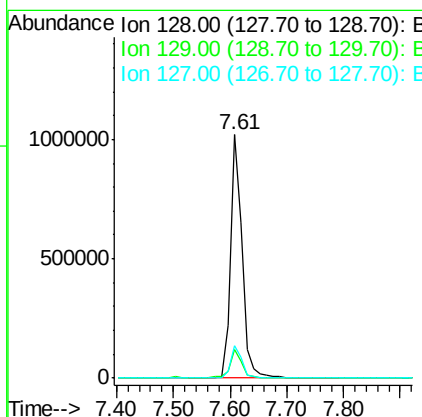
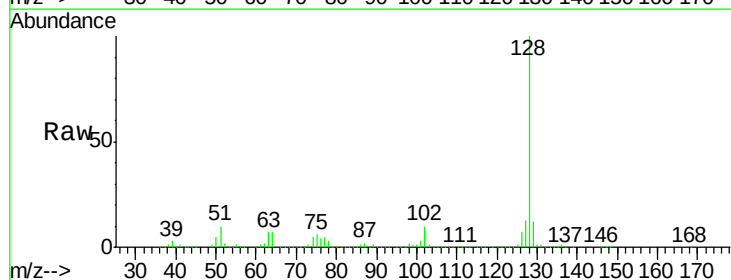
Manual Integrations
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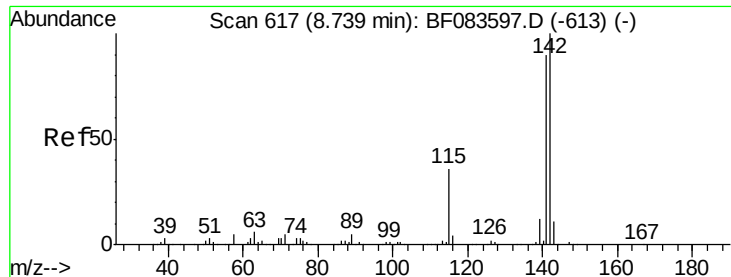
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#31
 Naphthalene
 Concen: 49.91 ng
 RT: 7.61 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: BF083675.D
 Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	1445772		
129	11.8	8.6	13.0	
127	13.3	10.6	16.0	





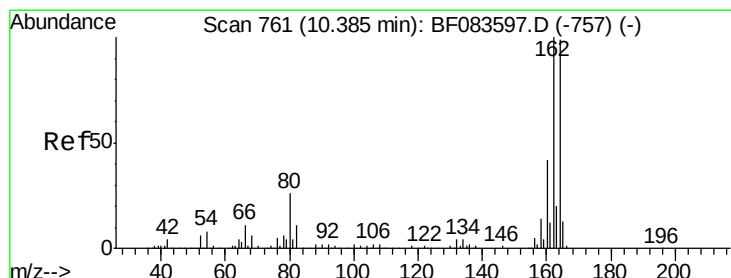
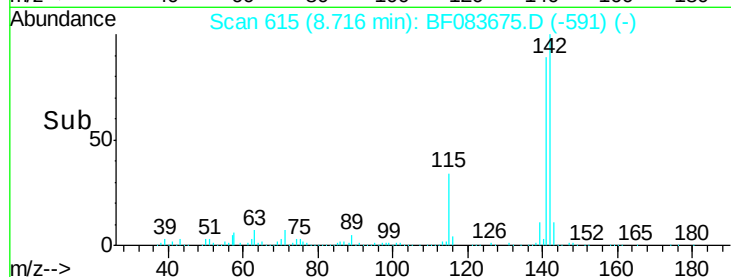
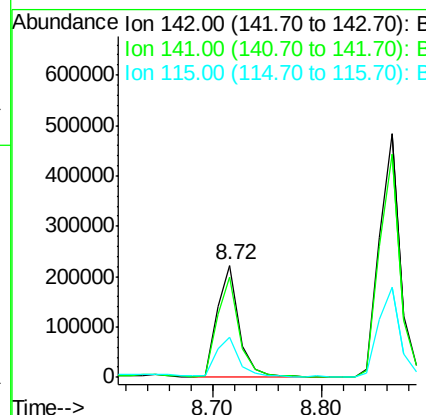
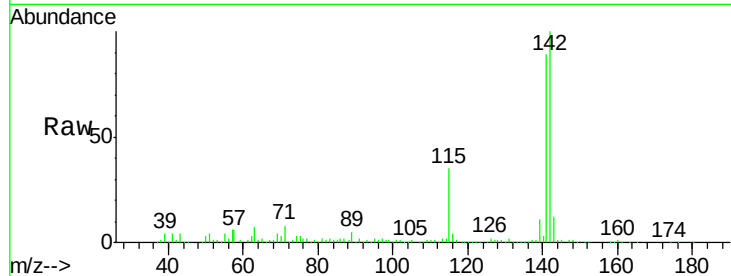
#37
2-Methylnaphthalene
Concen: 16.91 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.3	105.5
115	35.2	29.2	43.8

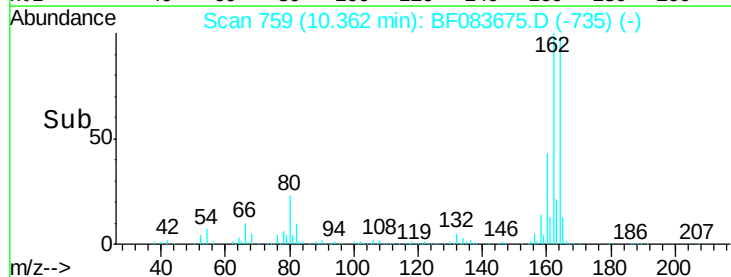
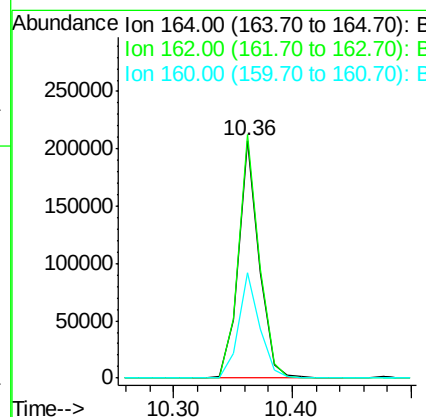
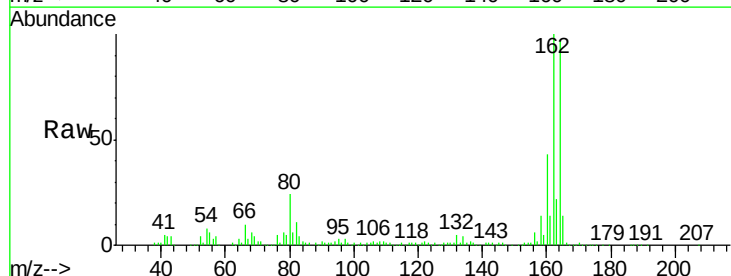
Manual Integrations
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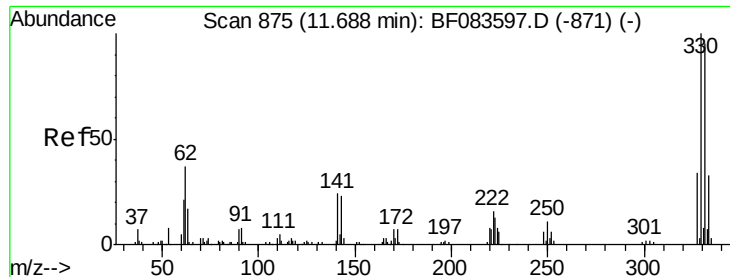
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	78.8	118.2
160	44.5	33.4	50.2





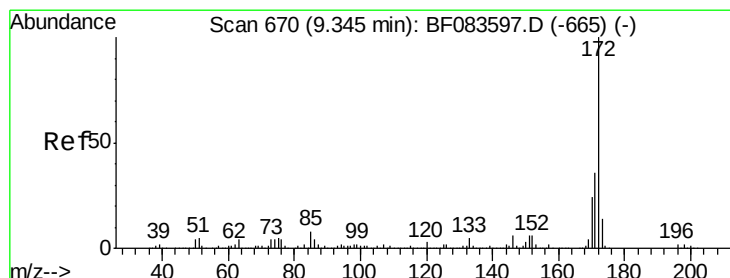
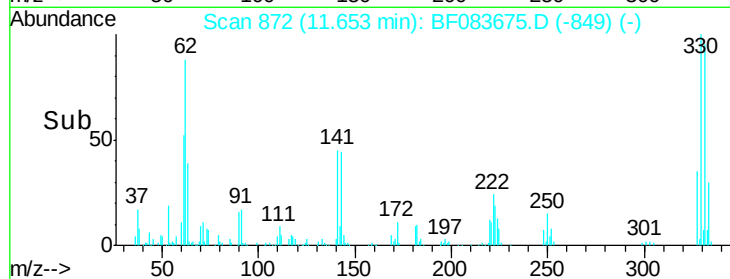
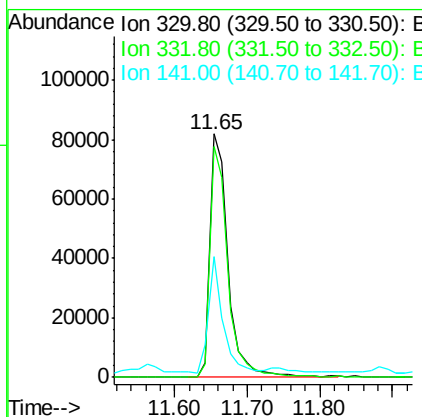
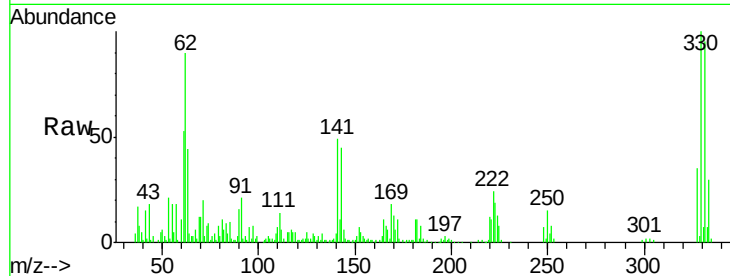
#41
 2,4,6-Tribromophenol
 Concen: 63.06 ng
 RT: 11.65 min Scan# 872
 Delta R.T. -0.03 min
 Lab File: BF083675.D
 Acq: 10 Dec 2015 9:44

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	93.4	0.0	0.0#
141	37.4	0.0	0.0#

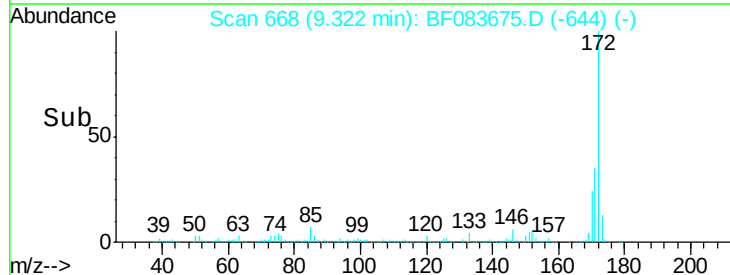
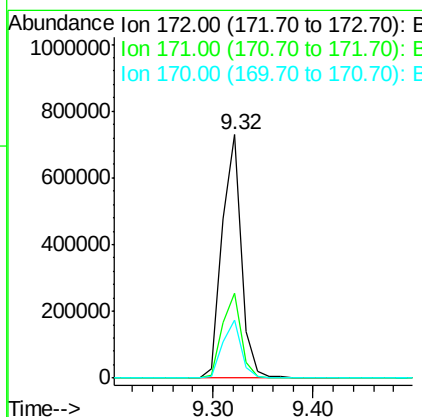
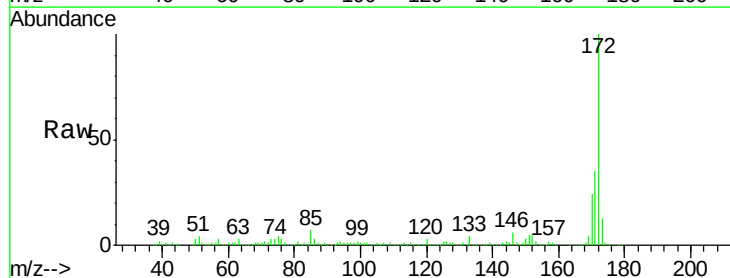
Manual Integrations
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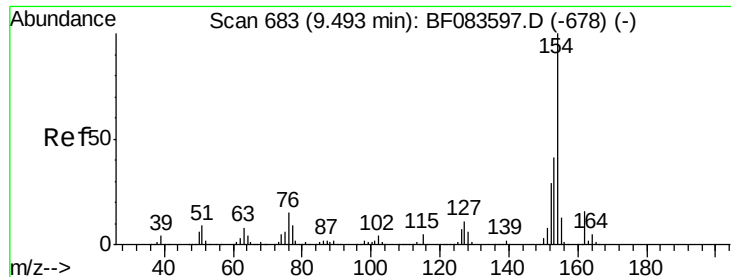
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#44
 2-Fluorobiphenyl
 Concen: 54.04 ng
 RT: 9.32 min Scan# 668
 Delta R.T. -0.02 min
 Lab File: BF083675.D
 Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.1	28.6	42.8
170	24.0	19.4	29.0





#45

1,1'-Biphenyl

Concen: 8.20 ng

RT: 9.47 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

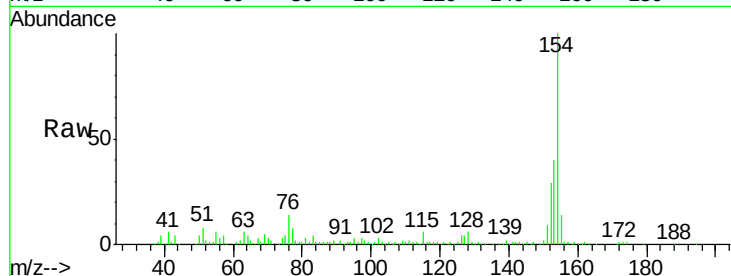
ClientSampleId :

SB-P3WC-04(10-13)DL

Tot Ion:	154	Resp:	180032
Ion Ratio		Lower	Upper
154	100		
153	39.9	20.2	60.2
76	14.1	0.0	34.8

Manual Integrations
APPROVED

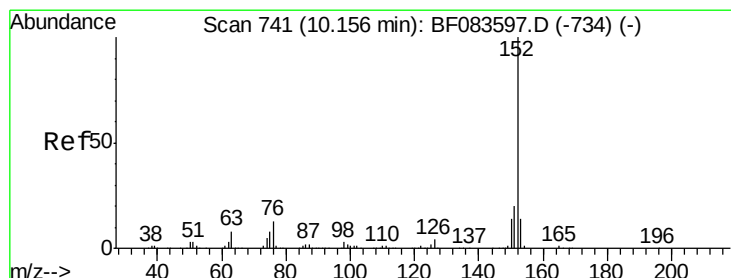
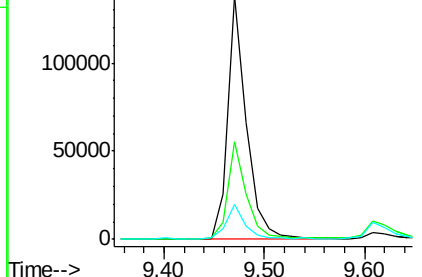
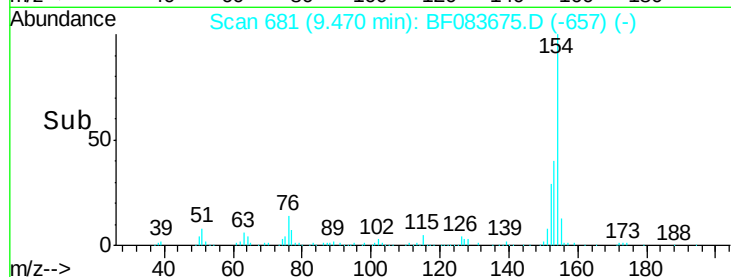
MMdadoda
12/10/2015 5:50:52 PM



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: 4.18 ng

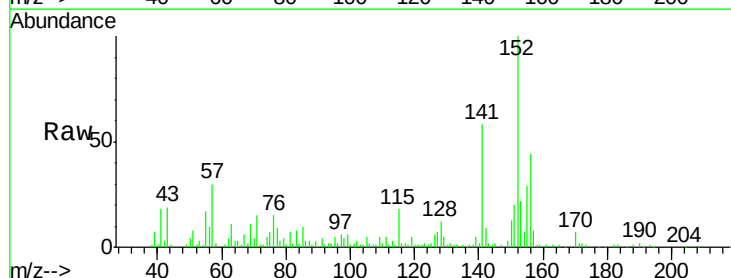
RT: 10.14 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

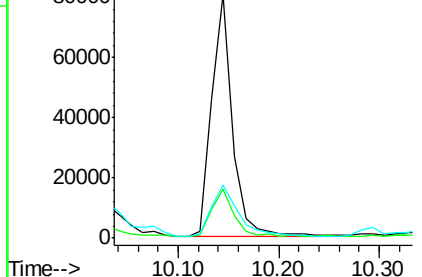
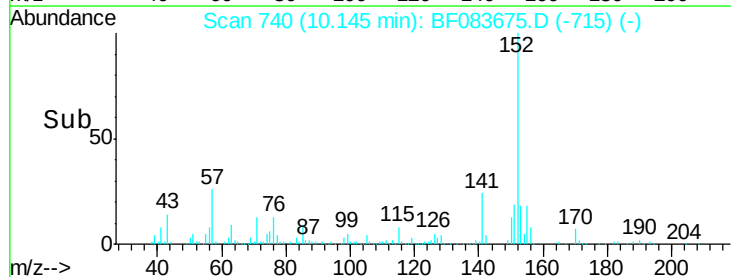
Tgt Ion:	152	Resp:	114226
Ion Ratio		Lower	Upper
152	100		
151	20.3	16.3	24.5
153	22.0	10.8	16.2#

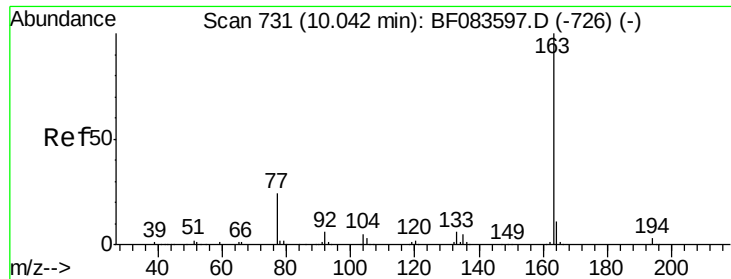


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





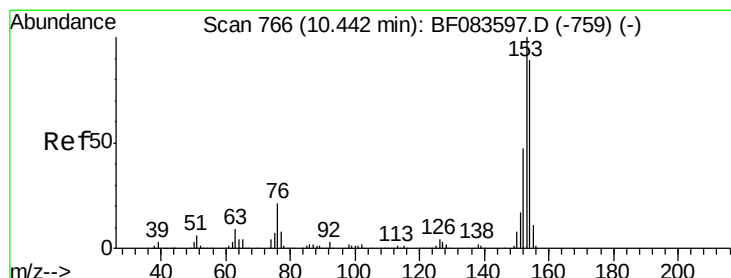
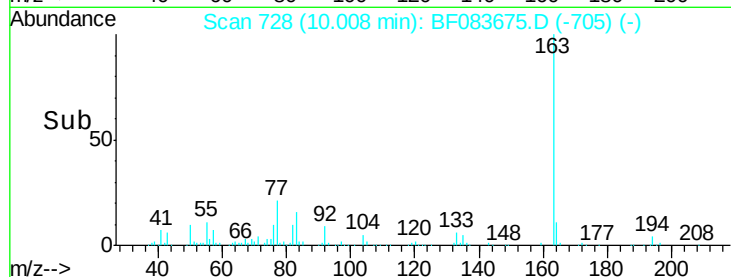
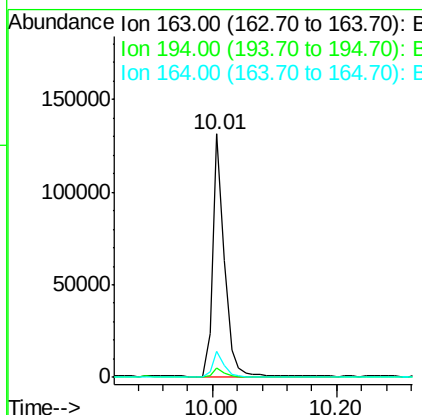
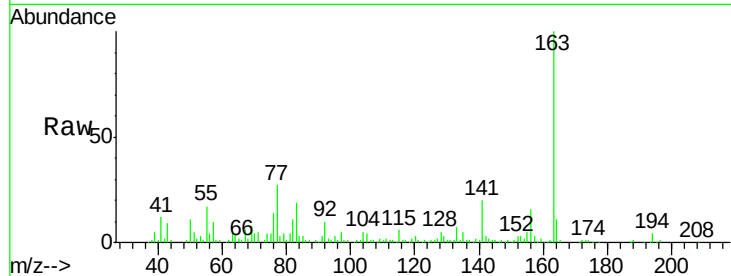
#49
Dimethylphthalate
Concen: 8.40 ng
RT: 10.01 min Scan# 728
Delta R.T. -0.03 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	168898		
194	3.7	2.8	4.2	
164	10.7	8.6	13.0	

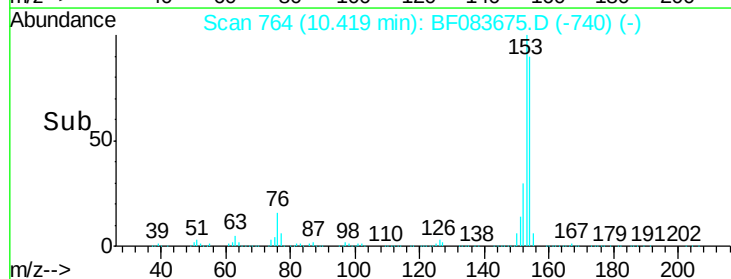
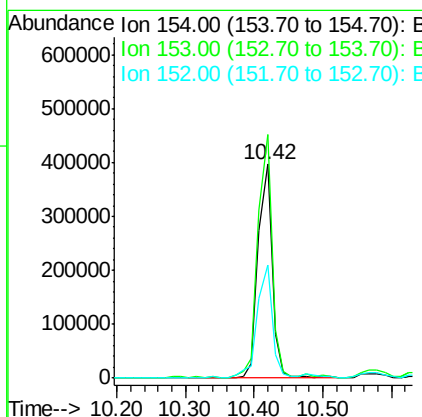
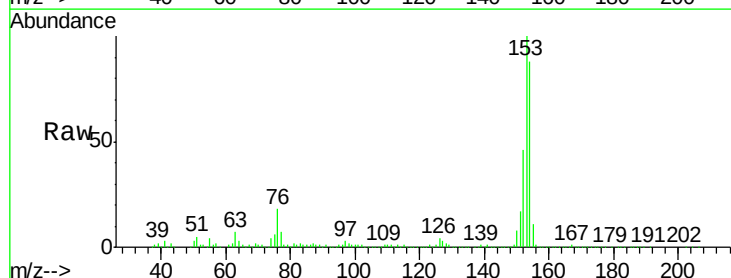
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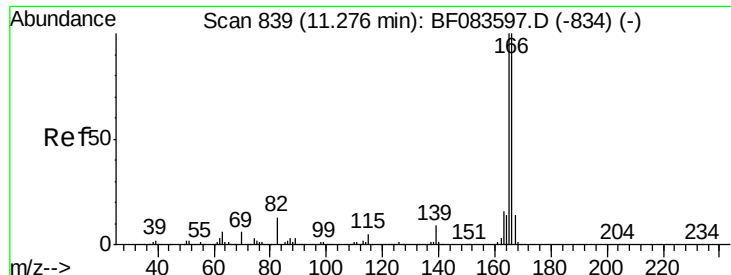
MMdadoda
12/10/2015 5:50:52 PM



#51
Acenaphthene
Concen: 35.16 ng
RT: 10.42 min Scan# 764
Delta R.T. -0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	550329		
153	113.8	91.4	137.0	
152	52.7	43.4	65.2	





#57

Fluorene

Concen: 16.93 ng

RT: 11.25 min Scan# 837

Delta R.T. -0.02 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

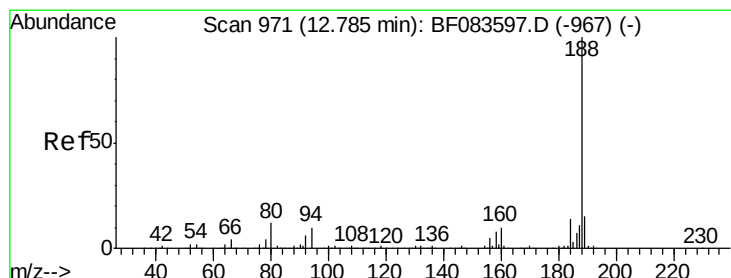
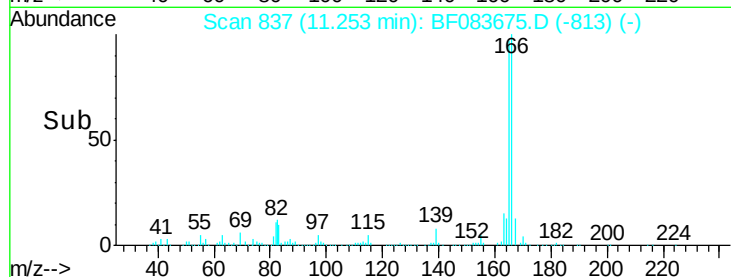
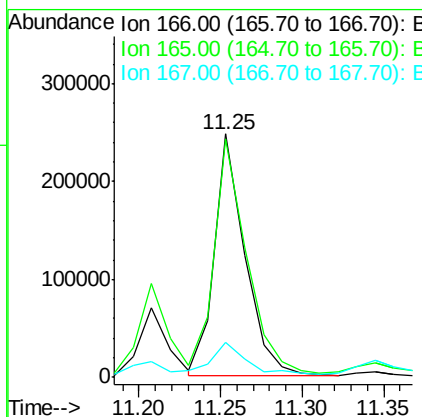
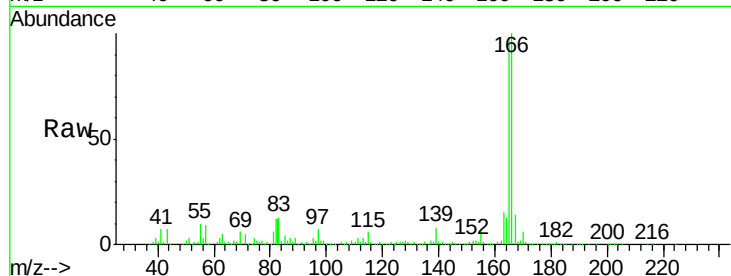
ClientSampleId :

SB-P3WC-04(10-13)DL

Tot Ion:	166	Resp:	320628
Ion Ratio	Lower	Upper	
166	100		
165	98.0	80.0	120.0
167	14.2	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

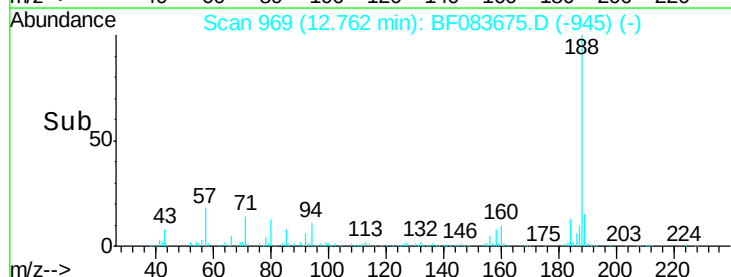
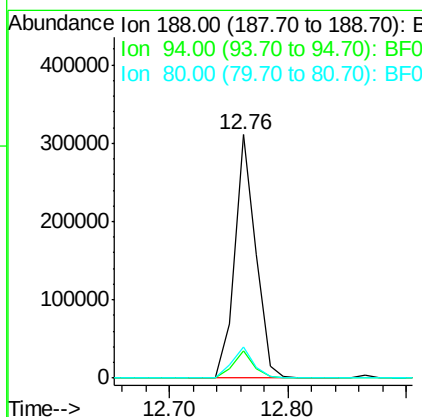
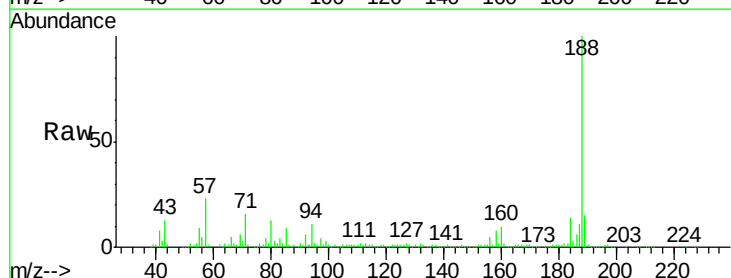
RT: 12.76 min Scan# 969

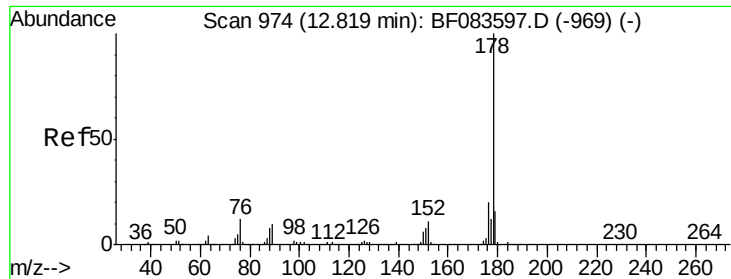
Delta R.T. -0.02 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Tgt Ion:	188	Resp:	383084
Ion Ratio	Lower	Upper	
188	100		
94	11.2	9.4	14.2
80	13.1	10.6	16.0





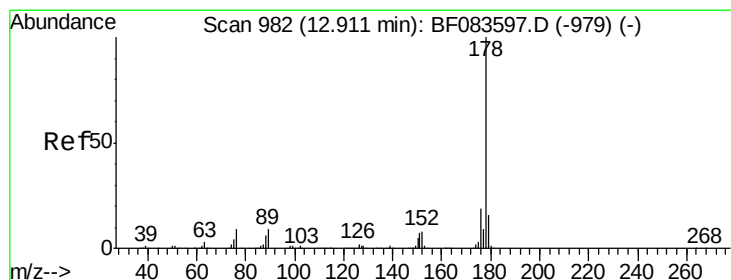
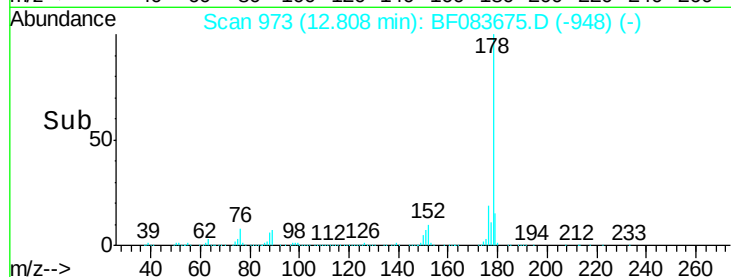
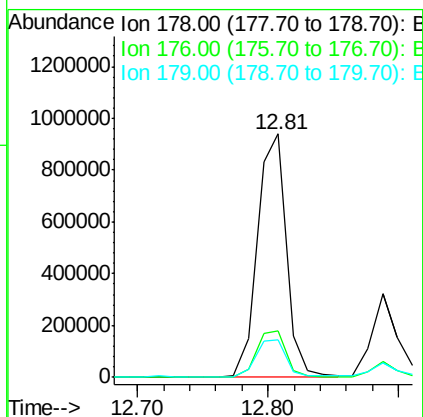
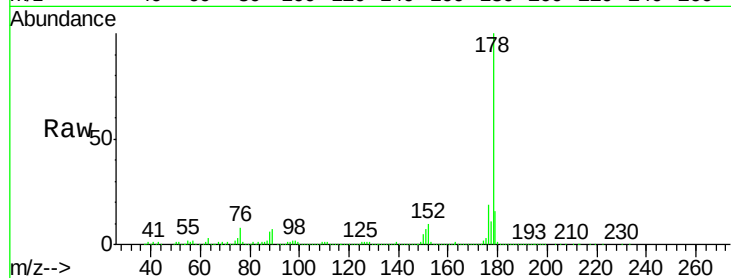
#70
Phenanthrene
Concen: 65.86 ng
RT: 12.81 min Scan# 973
Delta R.T. -0.01 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

Tot Ion:178 Resp: 1449549
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.6 12.2 18.4

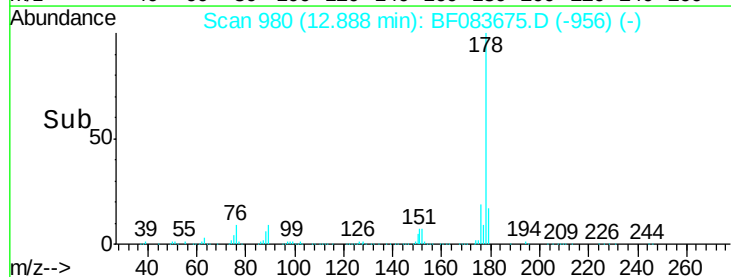
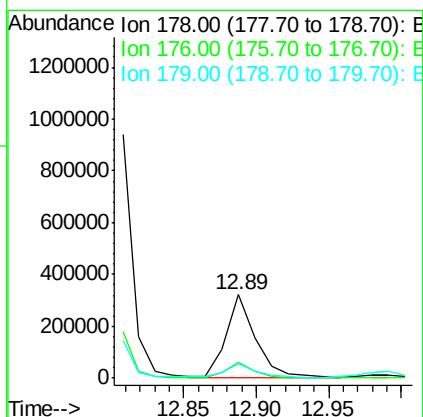
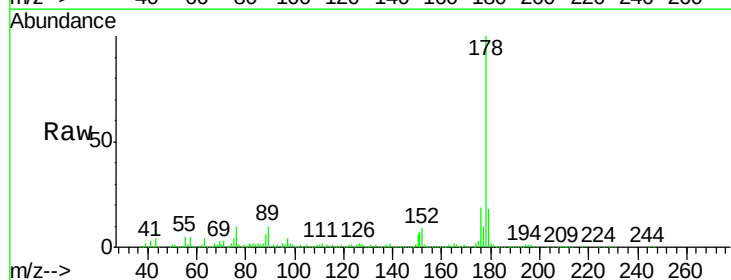
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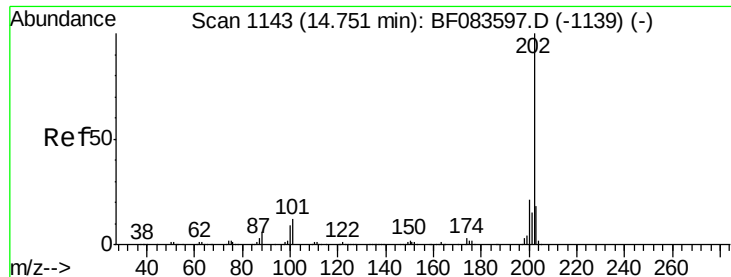
MMdadoda
12/10/2015 5:50:52 PM



#71
Anthracene
Concen: 19.38 ng
RT: 12.89 min Scan# 980
Delta R.T. -0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion:178 Resp: 441933
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 17.8 12.6 18.8





#74

Fluoranthene

Concen: 23.97 ng

RT: 14.73 min Scan# 1141

Delta R.T. -0.02 min

Lab File: BF083675.D

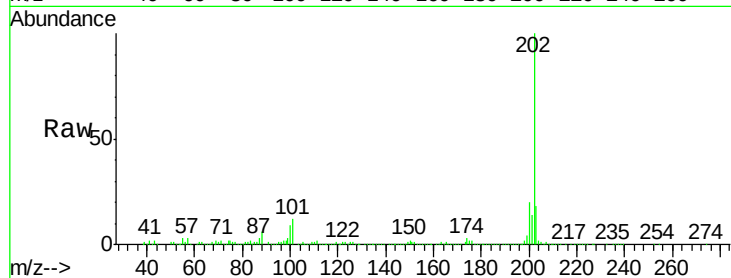
Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

ClientSampleId :

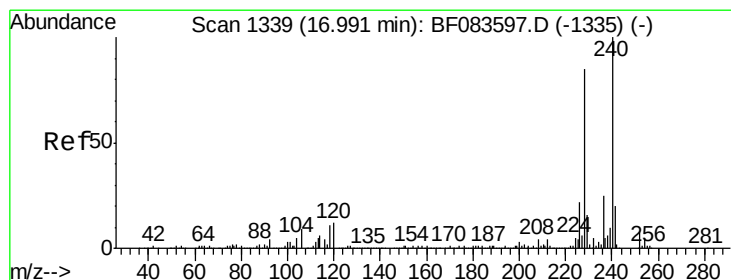
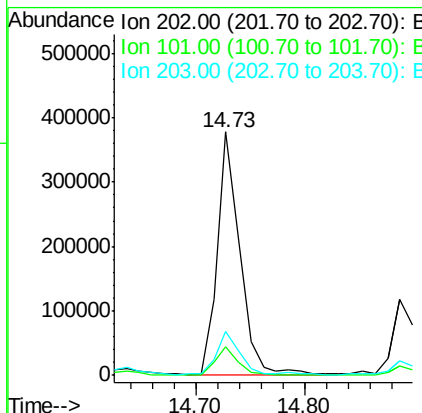
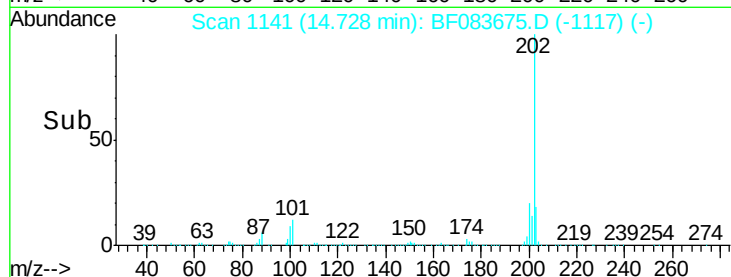
SB-P3WC-04(10-13)DL



Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	12.0	0.0	31.5	
203	18.2	0.0	37.6	

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#75

Chrysene-d12

Concen: 20.00 ng

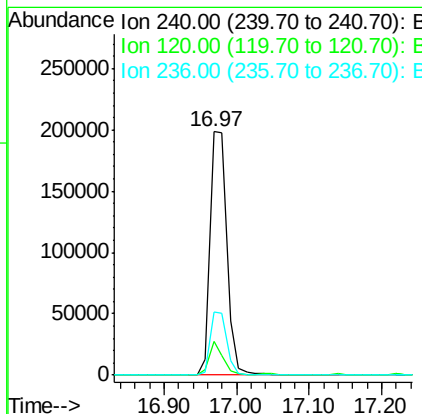
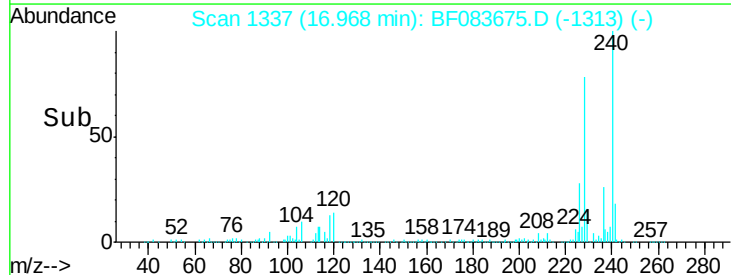
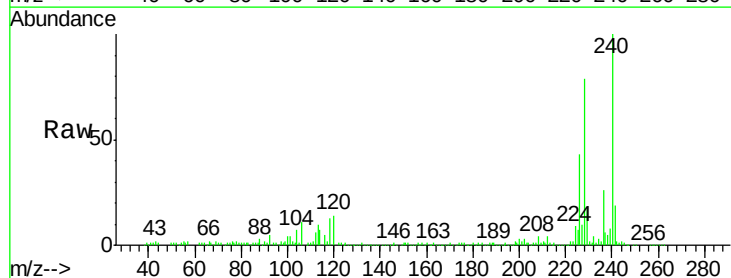
RT: 16.97 min Scan# 1337

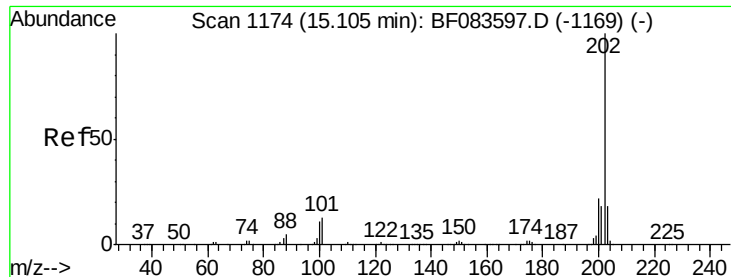
Delta R.T. -0.02 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	13.9	8.1	12.1#	
236	25.7	20.8	31.2	





#77

Pvrene

Concen: 31.34 ng

RT: 15.08 min Scan# 1172

Delta R.T. -0.02 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

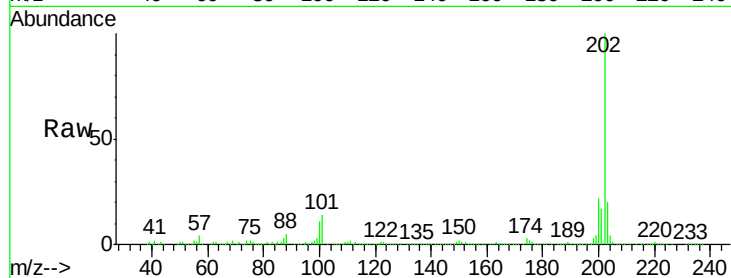
ClientSampleId :

SB-P3WC-04(10-13)DL

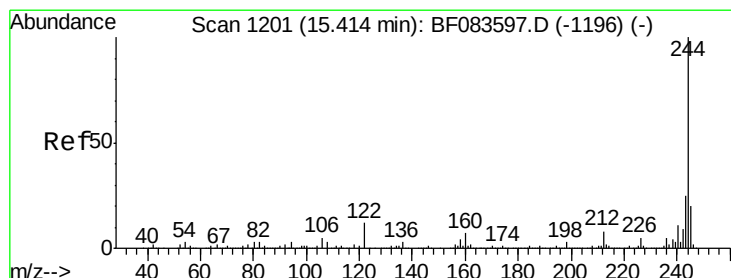
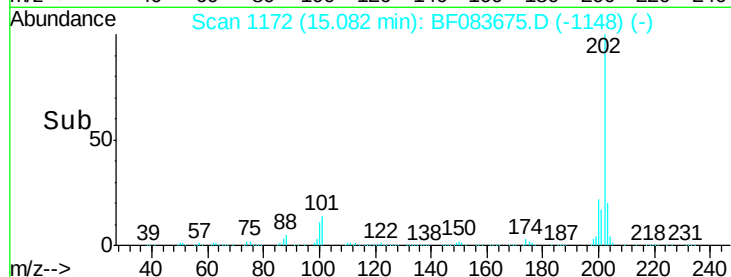
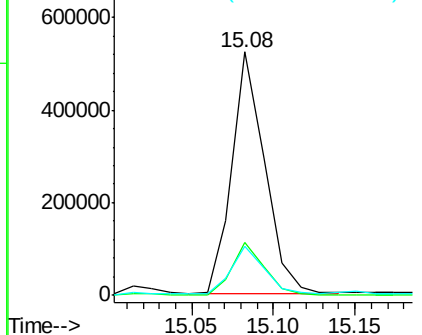
Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.6	16.7	25.1
203	20.2	14.3	21.5

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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: 48.20 ng

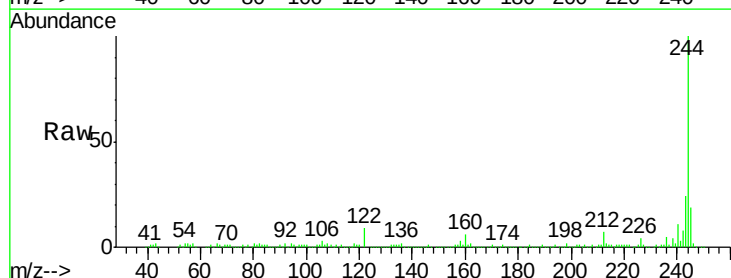
RT: 15.39 min Scan# 1199

Delta R.T. -0.02 min

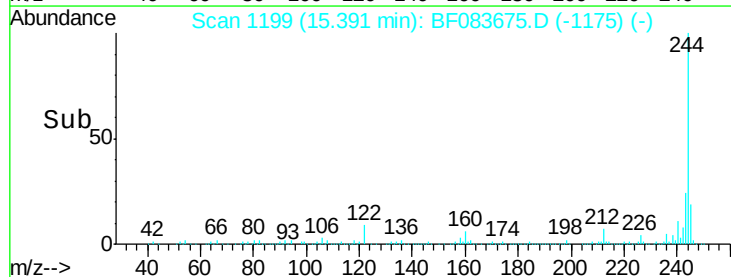
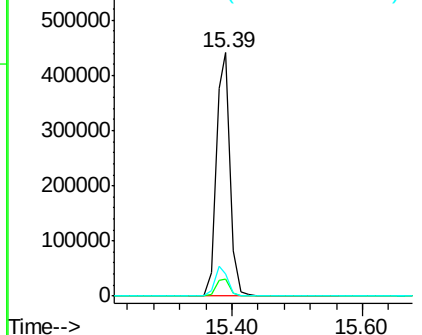
Lab File: BF083675.D

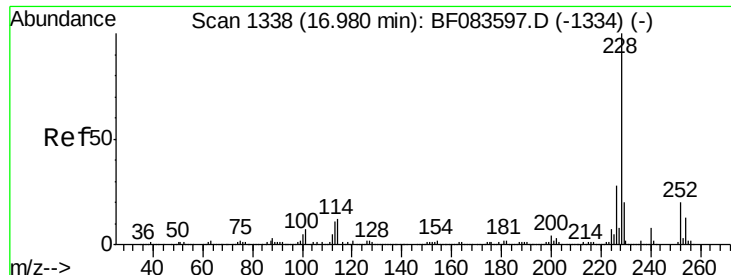
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.8	6.1	9.1
122	9.3	11.0	16.6



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





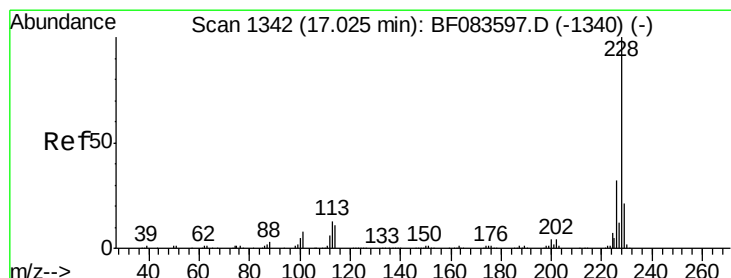
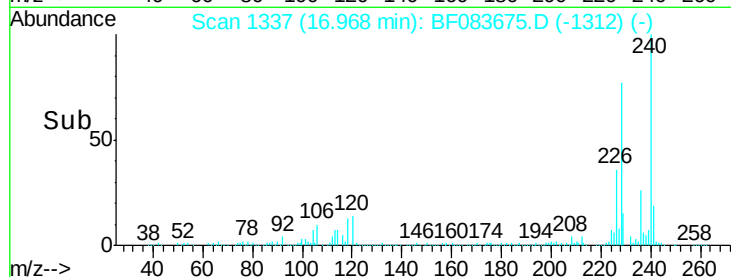
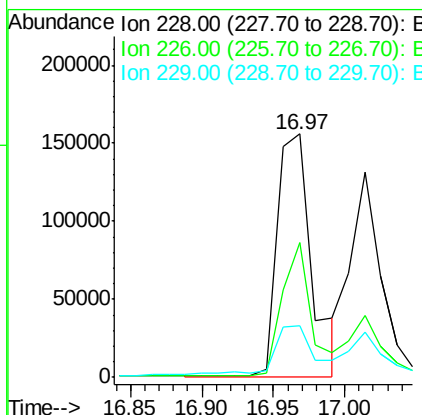
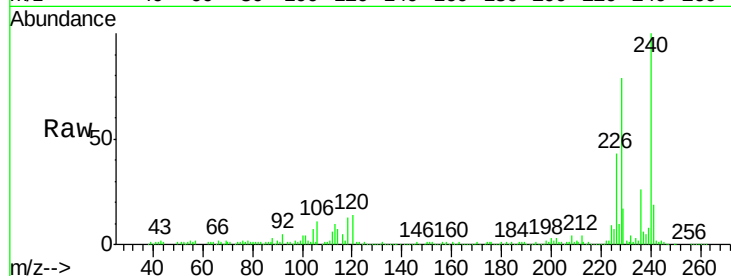
#80
Benzo(a)anthracene
Concen: 14.10 ng
RT: 16.97 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	55.1	22.3	33.5
229	21.1	15.7	23.5

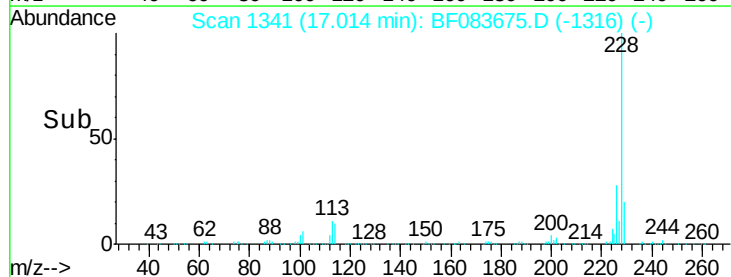
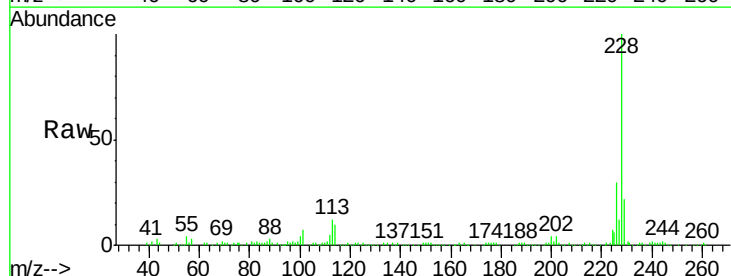
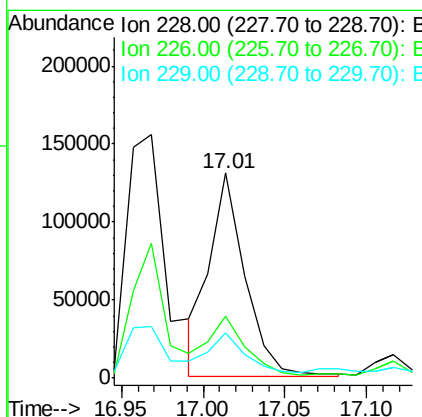
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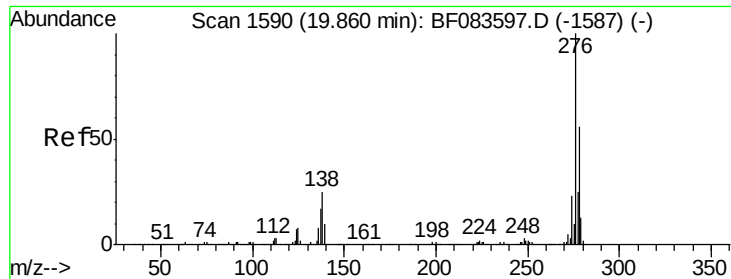
MMdadoda
12/10/2015 5:50:52 PM



#82
Chrysene
Concen: 10.51 ng
RT: 17.01 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	21.8	16.3	24.5





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.64 ng

RT: 19.89 min Scan# 1593

Delta R.T. 0.03 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Instrument :

BNA_F

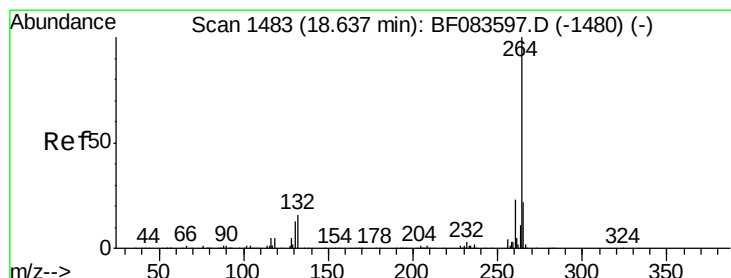
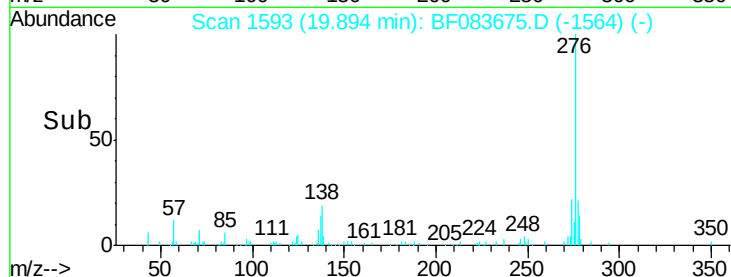
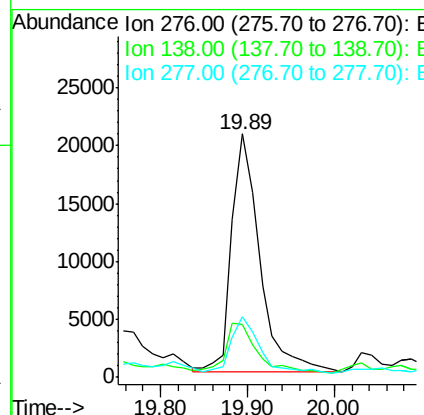
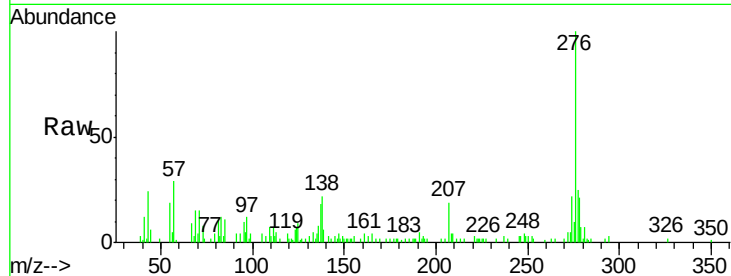
ClientSampleId :

SB-P3WC-04(10-13)DL

Tot Ion:	276	Resp:	46420
Ion Ratio		Lower	Upper
276	100		
138	24.2	0.0	0.0#
277	23.3	0.0	0.0#

Manual Integrations
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#86

Perylene-d12

Concen: 20.00 ng

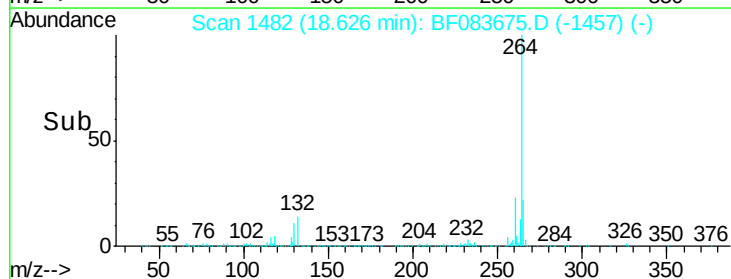
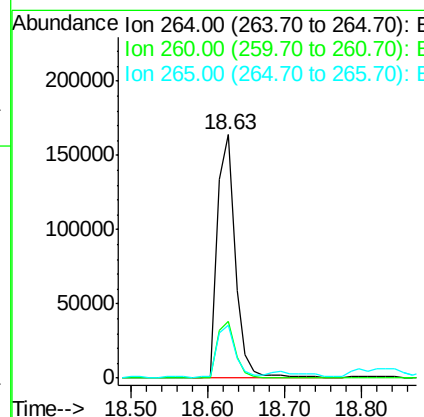
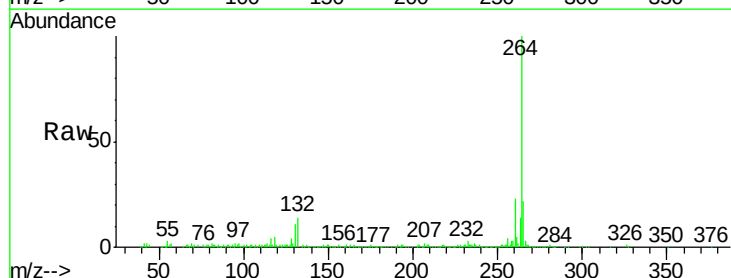
RT: 18.63 min Scan# 1482

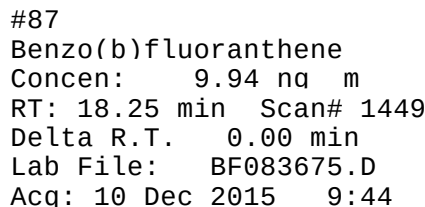
Delta R.T. -0.01 min

Lab File: BF083675.D

Acq: 10 Dec 2015 9:44

Tgt Ion:	264	Resp:	267737
Ion Ratio		Lower	Upper
264	100		
260	23.1	19.4	29.0
265	21.9	17.8	26.6



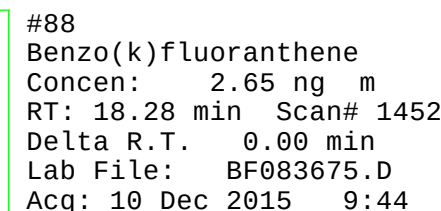
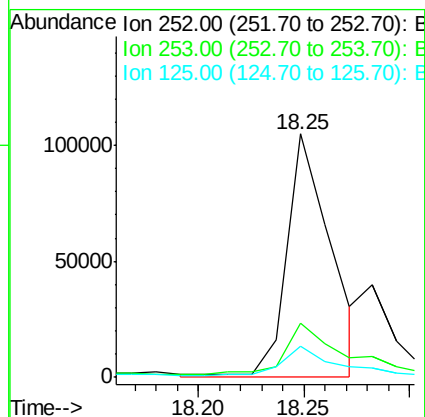


Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

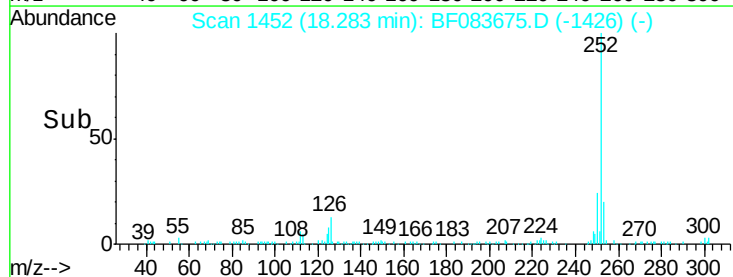
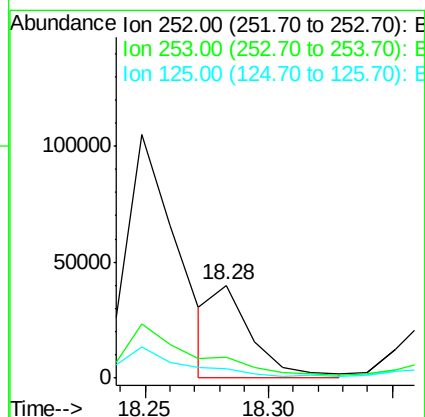
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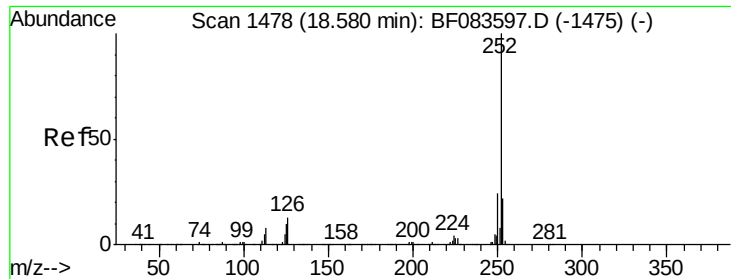
MMdadoda
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Tot	Ion:252	Resp:	151480
Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	12.8	8.2	12.4#



Tgt	Ion:252	Resp:	44542
Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.6	27.8
125	10.3	11.5	17.3#





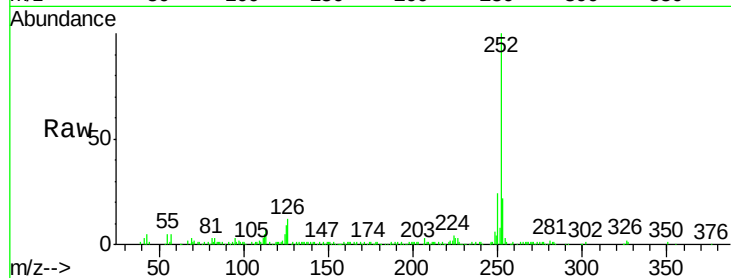
#89
Benzo(a)pyrene
Concen: 9.61 ng m
RT: 18.58 min Scan# 1478
Delta R.T. 0.00 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-04(10-13)DL

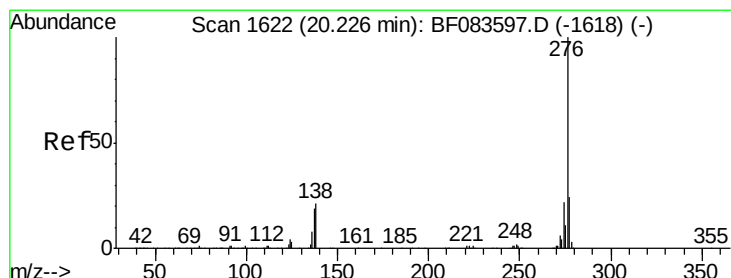
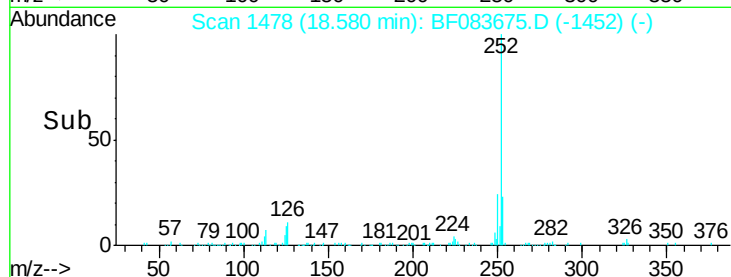
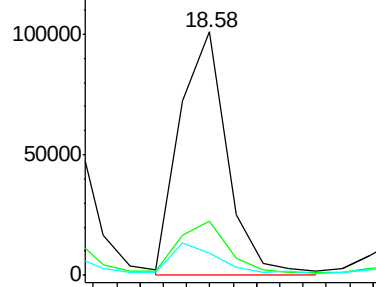
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	9.4	11.0	16.6

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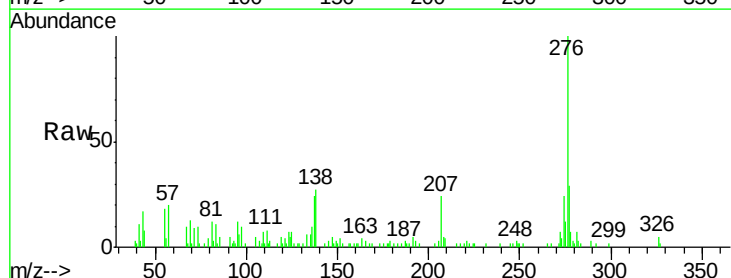


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 4.11 ng
RT: 20.25 min Scan# 1624
Delta R.T. 0.02 min
Lab File: BF083675.D
Acq: 10 Dec 2015 9:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	28.7	19.2	28.8
138	26.6	19.5	29.3



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

