

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082392.D
 Acq On : 20 Oct 2015 9:48
 Operator : UM/IZ
 Sample : G4046-04DL 50X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL

Manual Integrations
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 10/20/2015 6:26:13 PM

Quant Time: Oct 20 13:38:32 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	88798	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	363670	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	183300	20.00	ng	-0.03
63) Phenanthrene-d10	11.35	188	298546	20.00	ng	-0.02
75) Chrysene-d12	14.02	240	230022	20.00	ng	0.01
86) Perylene-d12	15.53	264	225063	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	4908	1.12	ng	-0.02
7) Phenol-d6	6.45	99	7231	1.26	ng	-0.03
23) Nitrobenzene-d5	7.37	82	4686	0.87	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	2043	1.19	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	17145	1.55	ng	-0.04
78) Terphenyl-d14	12.93	244	15983	1.84	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.11	128	62537	3.97	ng	98
37) 2-Methylnaphthalene	8.81	142	62614	5.73	ng	98
45) 1,1'-Biphenyl	9.27	154	42982	3.08	ng	98
48) Acenaphthylene	9.71	152	35643	2.08	ng	97
51) Acenaphthene	9.89	154	380740	37.00	ng	99
54) Dibenzofuran	10.06	168	600765	42.52	ng	99
57) Fluorene	10.40	166	620450	53.47	ng	99
70) Phenanthrene	11.38	178	4432154m	302.87	ng	
71) Anthracene	11.43	178	730577m	48.45	ng	
72) Carbazole	11.58	167	551881	40.12	ng	99
74) Fluoranthene	12.57	202	3179562	202.30	ng	94
77) Pyrene	12.80	202	1856111	135.97	ng	98
80) Benzo(a)anthracene	14.01	228	446570	37.31	ng	99
82) Chrysene	14.05	228	454843m	36.07	ng	
85) Indeno(1,2,3-cd)pyrene	16.95	276	38287	3.82	ng	99
87) Benzo(b)fluoranthene	15.11	252	299968m	21.91	ng	
88) Benzo(k)fluoranthene	15.13	252	65531m	5.69	ng	
89) Benzo(a)pyrene	15.46	252	95559	8.12	ng	100
91) Benzo(a,h,i)perylene	17.37	276	24780	2.65	ng	98

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

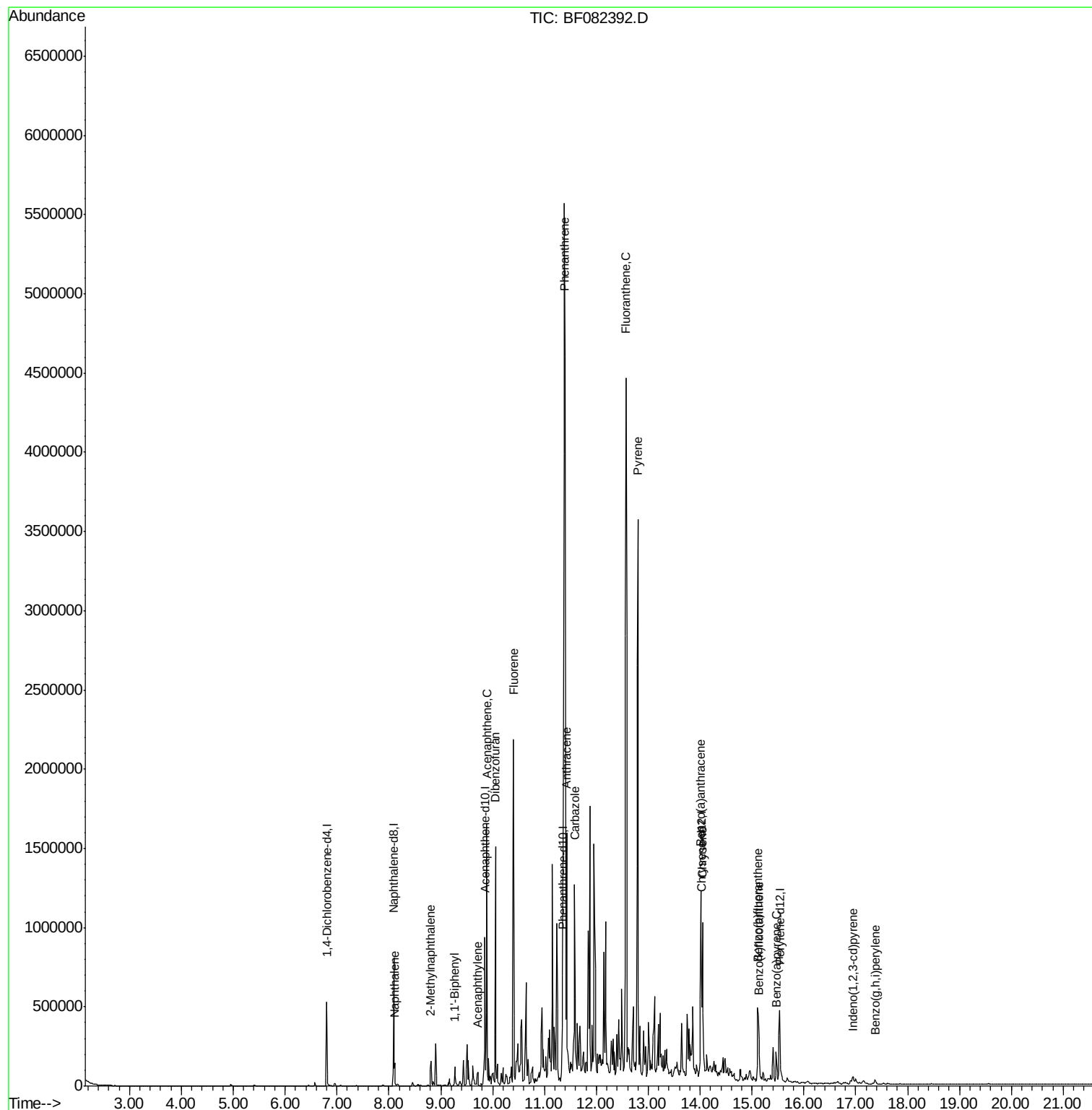
Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
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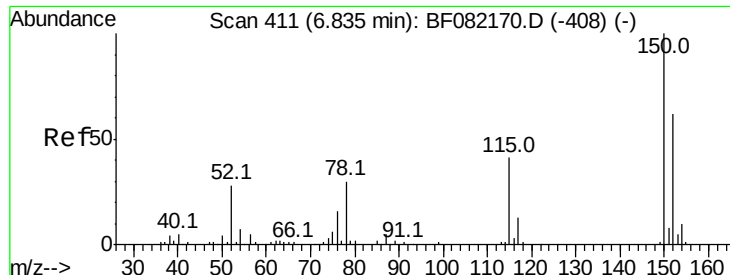
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN112DL

Tot Ion:152 Resp: 88798

Ion Ratio Lower Upper

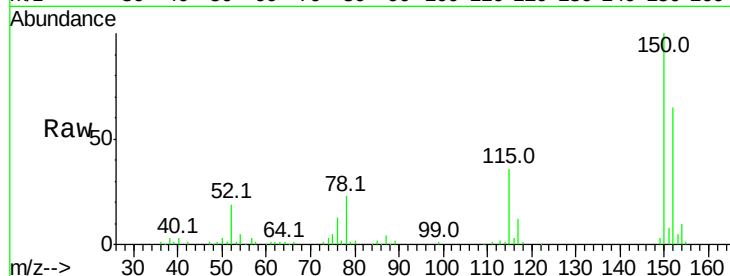
152 100

150 154.4 129.0 193.4

115 55.9 52.1 78.1

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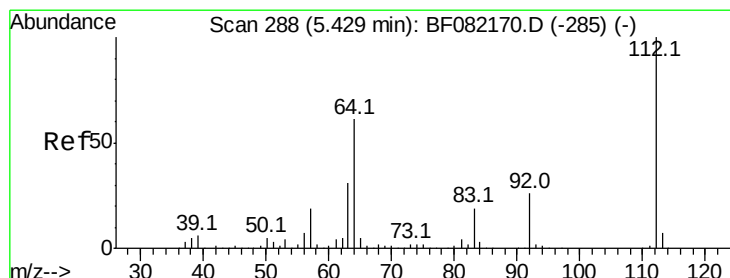
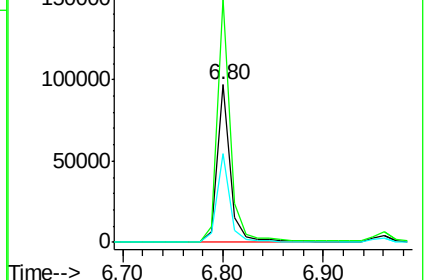
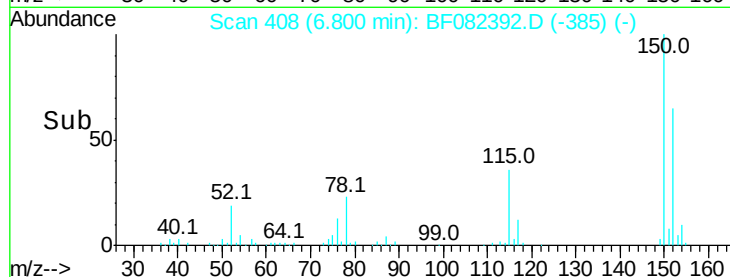
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 1.12 ng

RT: 5.41 min Scan# 286

Delta R.T. -0.02 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

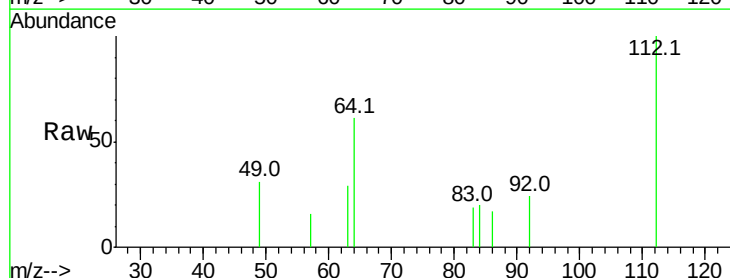
Tgt Ion:112 Resp: 4908

Ion Ratio Lower Upper

112 100

64 61.2 48.6 73.0

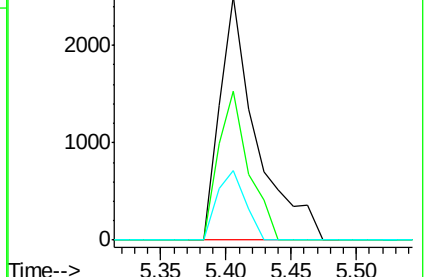
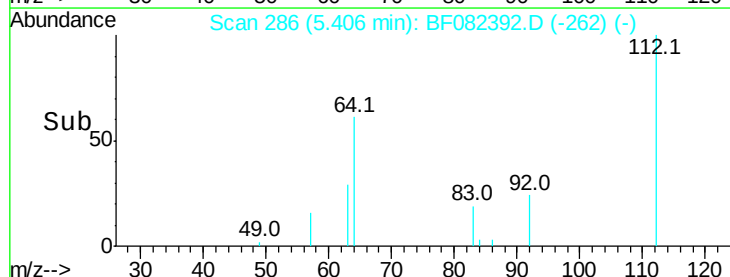
63 28.8 25.1 37.7

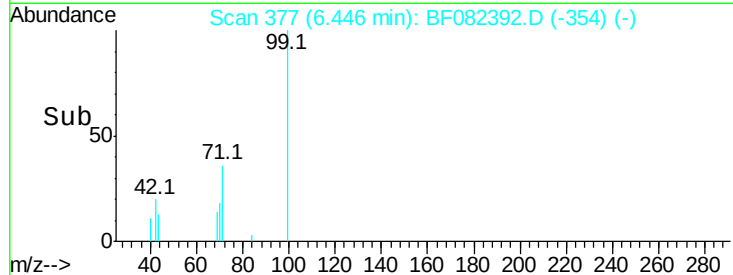
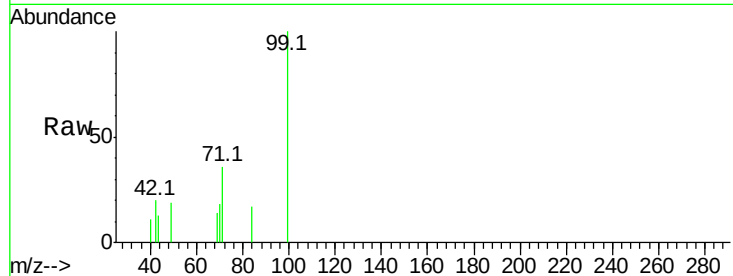
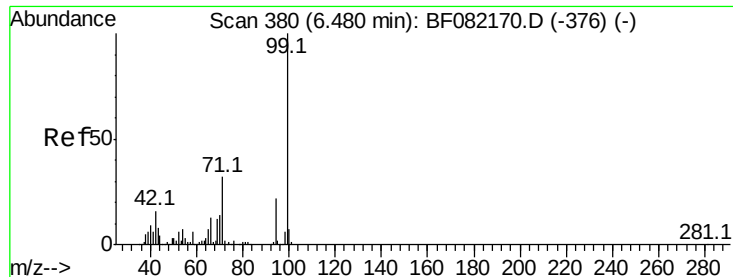


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.26 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082392.D

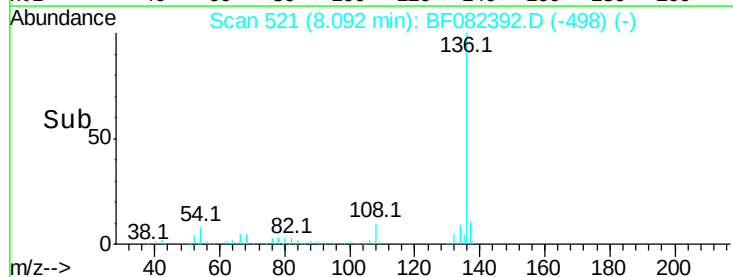
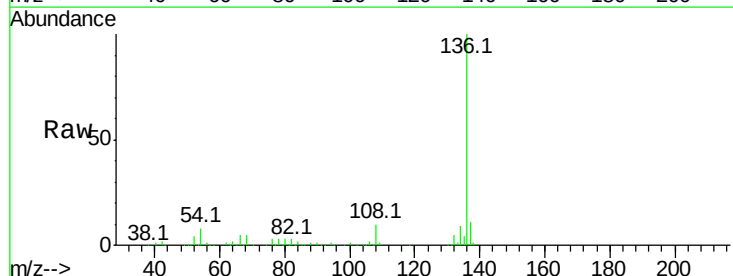
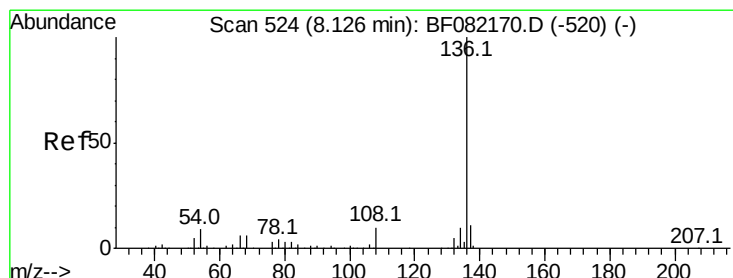
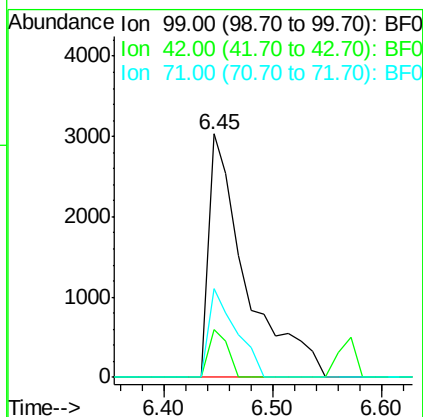
Acq: 20 Oct 2015 9:48

Tot Ion:	99	Resp:	7231
Ion Ratio	Lower	Upper	
99	100		
42	19.7	13.2	19.8
71	36.3	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

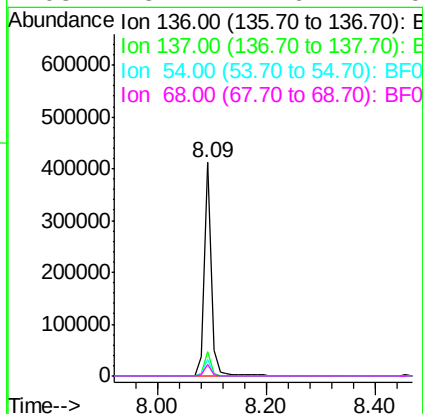
RT: 8.09 min Scan# 521

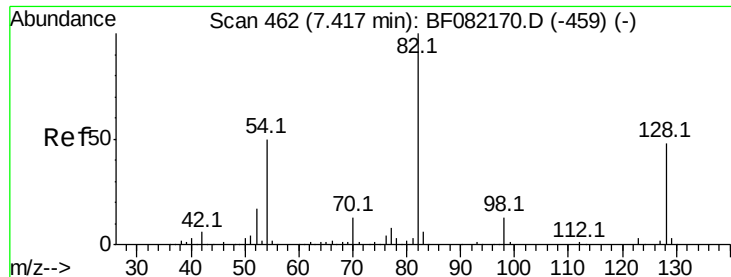
Delta R.T. -0.03 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Tgt Ion:	136	Resp:	363670
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.6
54	7.9	7.5	11.3
68	5.2	4.6	7.0





#23

Nitrobenzene-d5

Concen: 0.87 ng

RT: 7.37 min Scan# 458

Delta R.T. -0.05 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

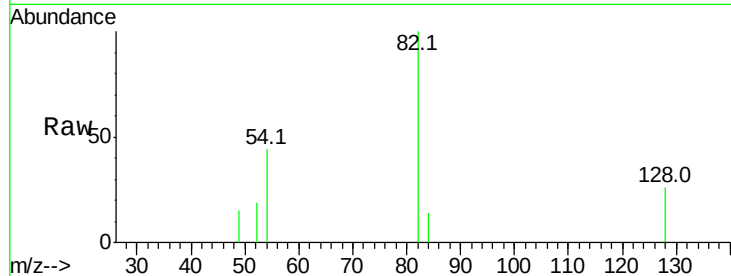
ClientSampleId :

MANAHAWKEN112DL

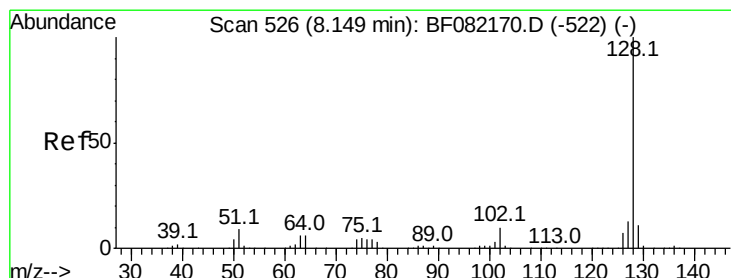
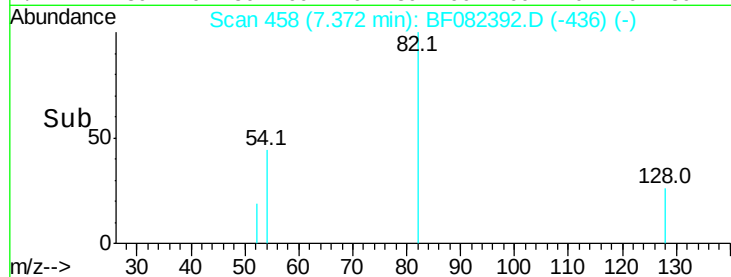
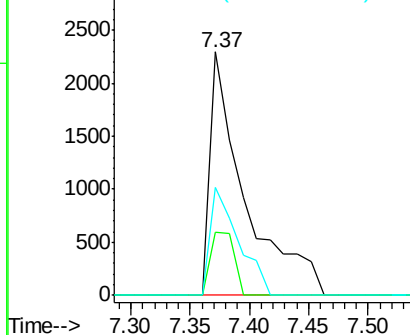
Tot Ion:	82	Resp:	4686
Ion Ratio	Lower	Upper	
82	100		
128	26.2	38.7	58.1#
54	44.1	40.1	60.1

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



#31

Naphthalene

Concen: 3.97 ng

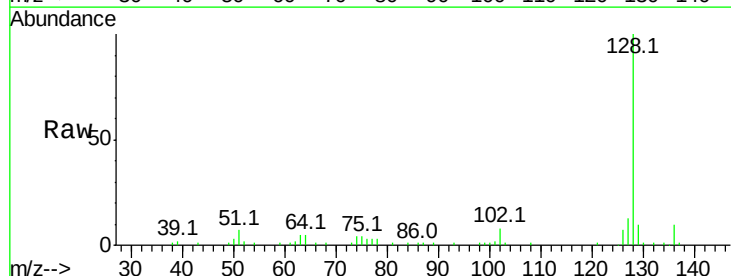
RT: 8.11 min Scan# 523

Delta R.T. -0.03 min

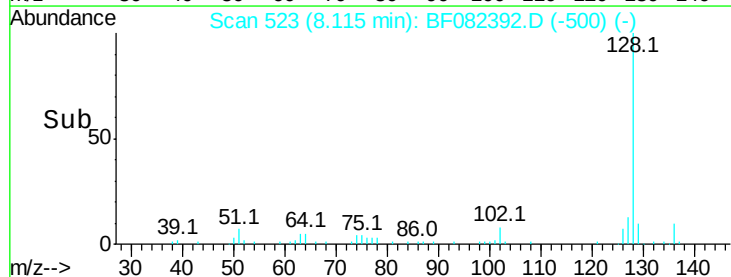
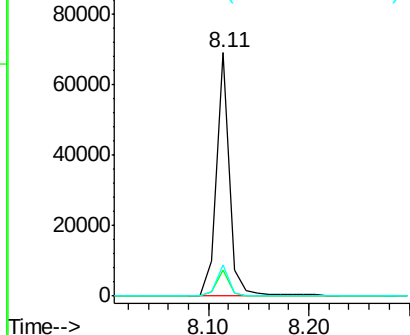
Lab File: BF082392.D

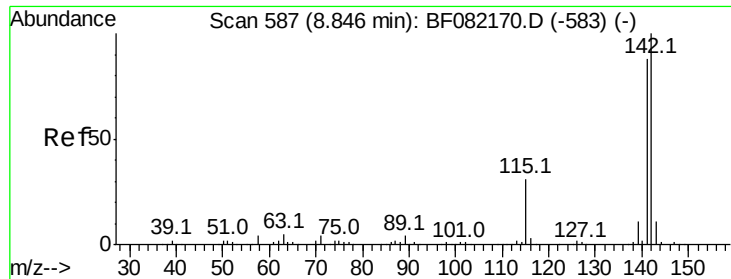
Acq: 20 Oct 2015 9:48

Tgt Ion:	128	Resp:	62537
Ion Ratio	Lower	Upper	
128	100		
129	10.5	9.1	13.7
127	13.0	10.7	16.1



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





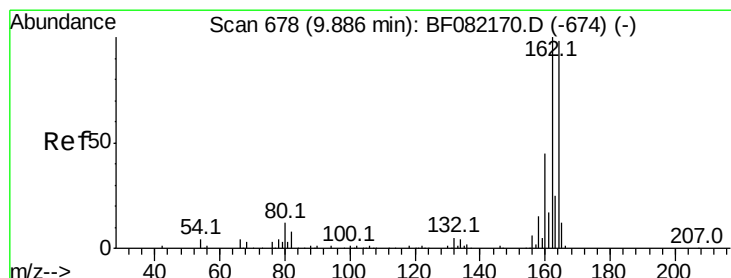
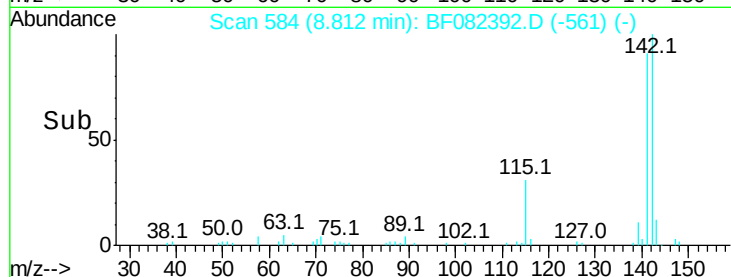
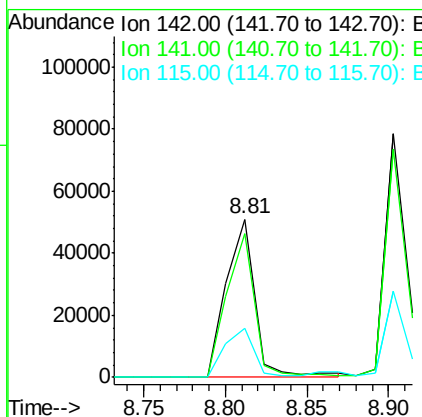
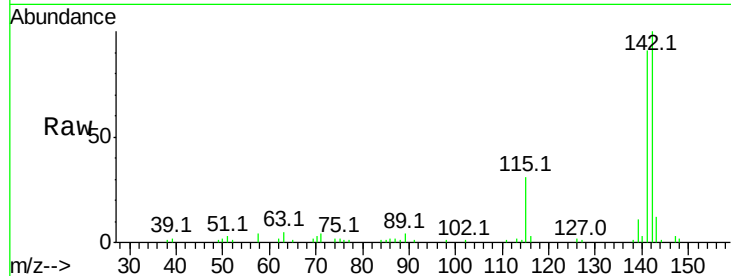
#37
2-Methylnaphthalene
Concen: 5.73 ng
RT: 8.81 min Scan# 584
Delta R.T. -0.03 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Instrument :
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ClientSampleId :
MANAHAWKEN112DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.4	105.6
115	30.8	24.6	37.0

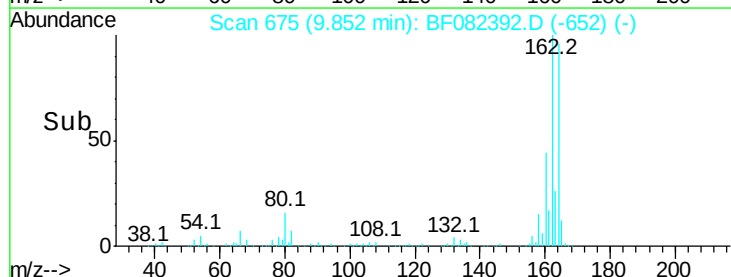
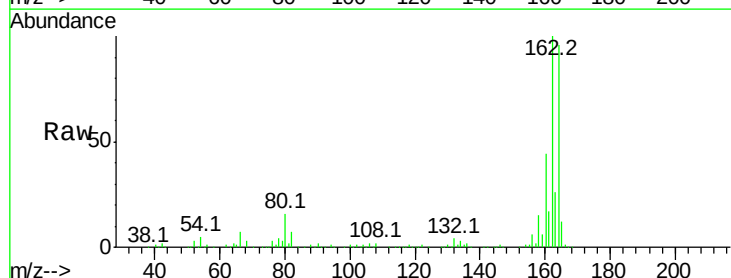
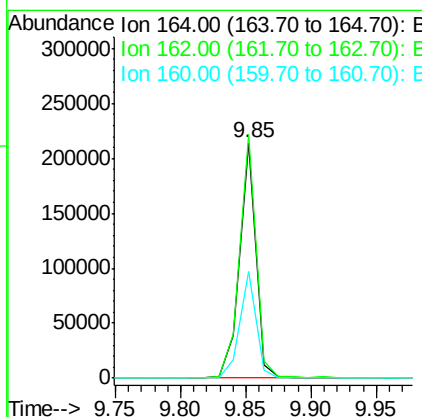
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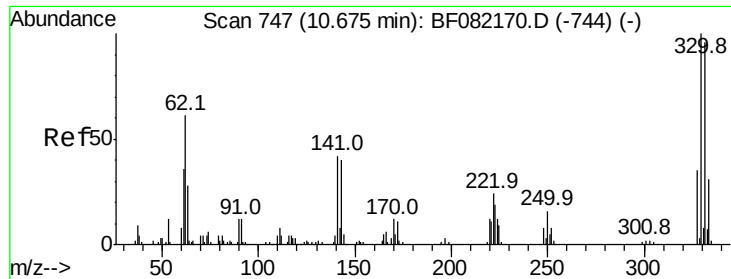
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 675
Delta R.T. -0.03 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	81.6	122.4
160	45.4	36.4	54.6





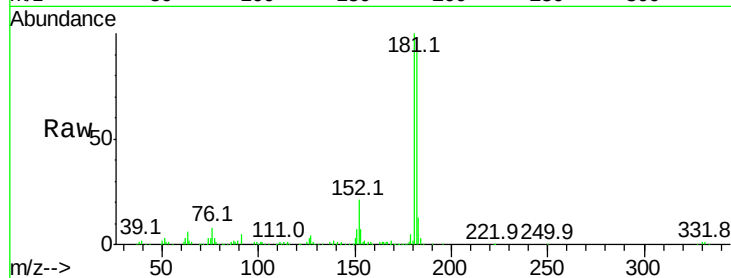
#41
 2,4,6-Tribromophenol
 Concen: 1.19 ng
 RT: 10.64 min Scan# 744
 Delta R.T. -0.03 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL

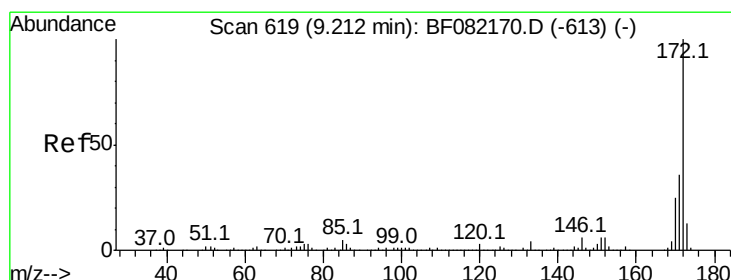
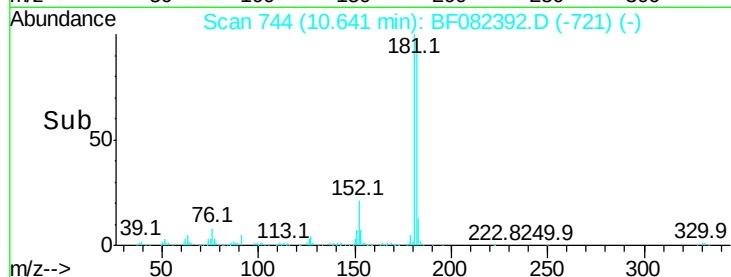
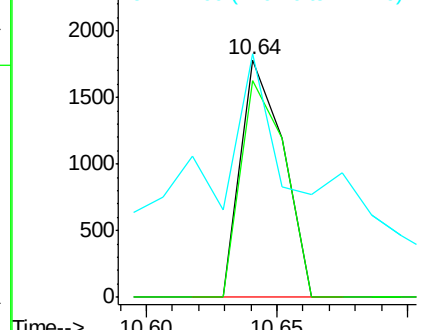
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	77.1	115.7
141	179.8	29.8	44.8#

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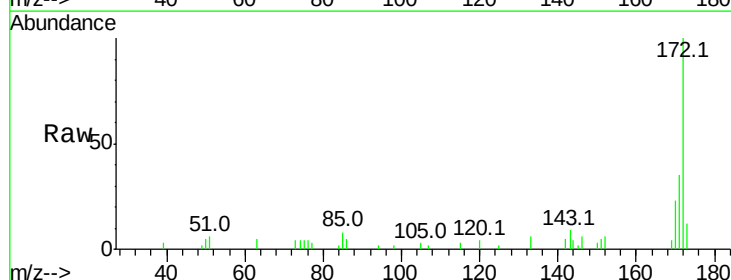


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

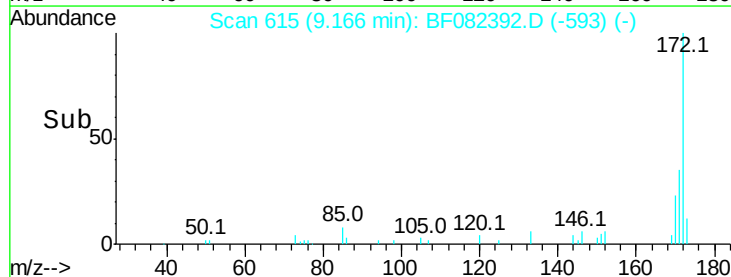
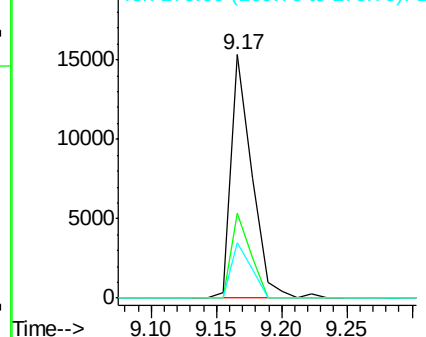


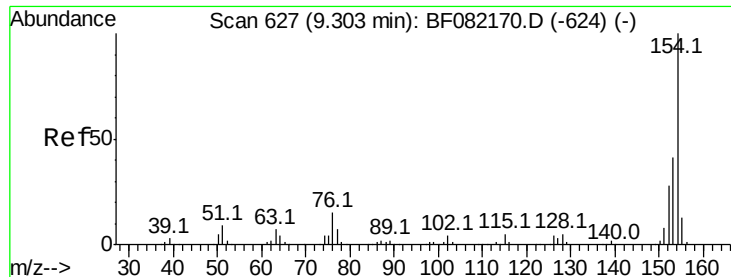
#44
 2-Fluorobiphenyl
 Concen: 1.55 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.04 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.6	42.8
170	22.6	19.7	29.5



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





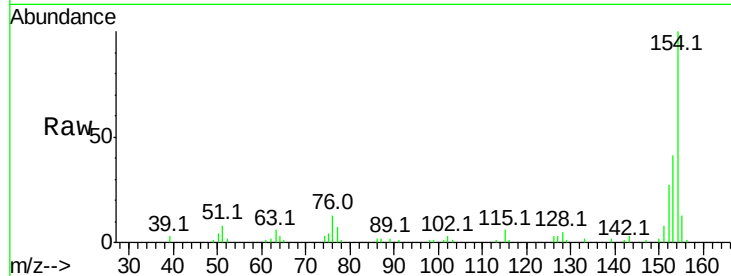
#45
 1,1'-Biphenyl
 Concen: 3.08 ng
 RT: 9.27 min Scan# 624
 Delta R.T. -0.03 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

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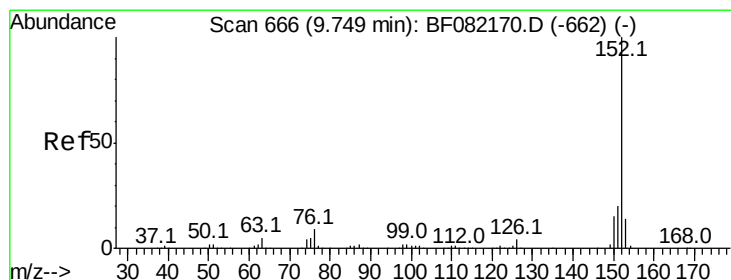
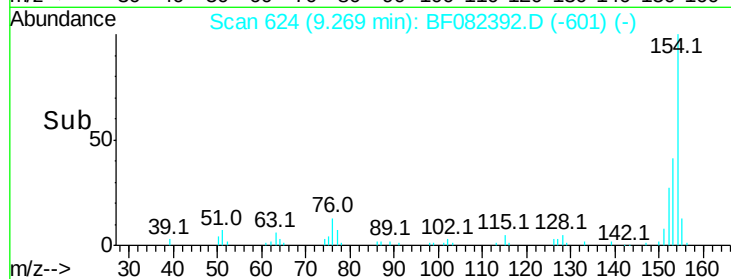
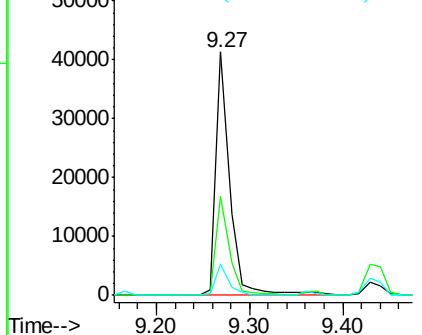
Tot Ion:	154	Resp:	42982
Ion Ratio	Lower	Upper	
154	100		
153	40.5	20.6	60.6
76	12.9	0.0	35.2

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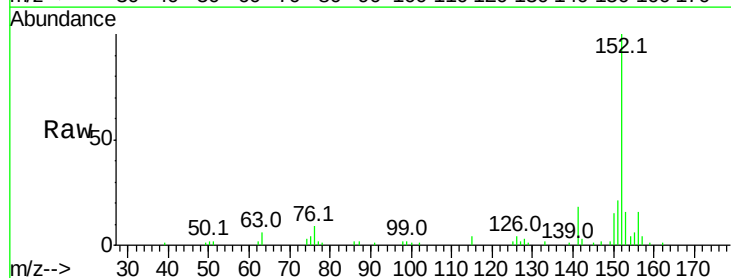


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

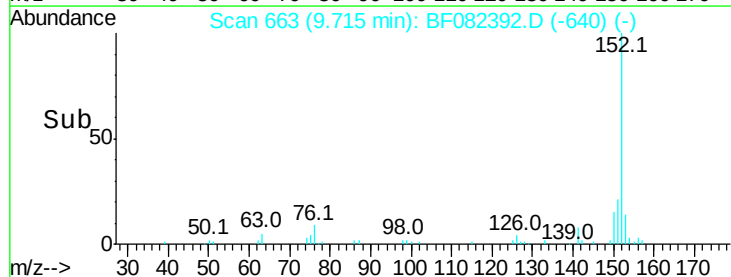
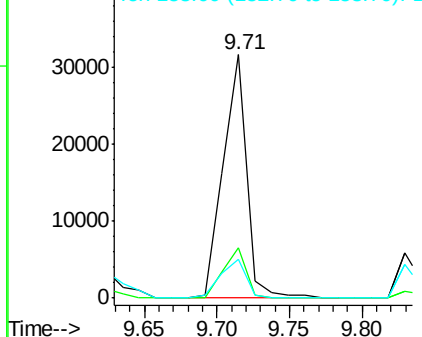


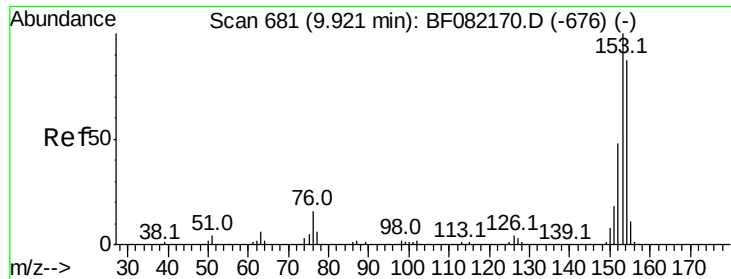
#48
 Acenaphthylene
 Concen: 2.08 ng
 RT: 9.71 min Scan# 663
 Delta R.T. -0.03 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Tgt Ion:	152	Resp:	35643
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.4	24.6
153	16.0	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





#51

Acenaphthene

Concen: 37.00 ng

RT: 9.89 min Scan# 678

Delta R.T. -0.03 min

Lab File: BF082392.D

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BNA_F

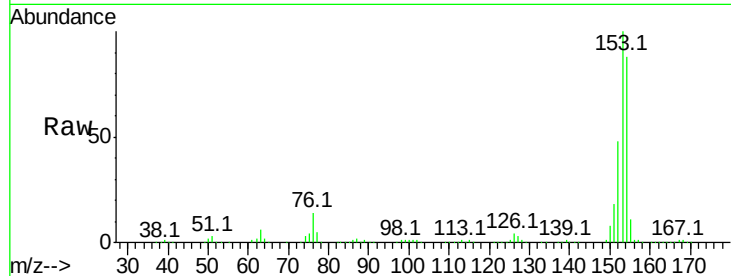
ClientSampleId :

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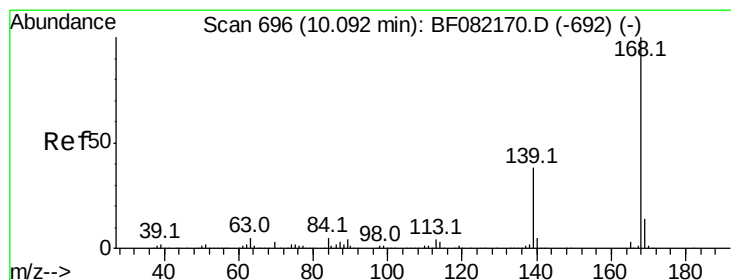
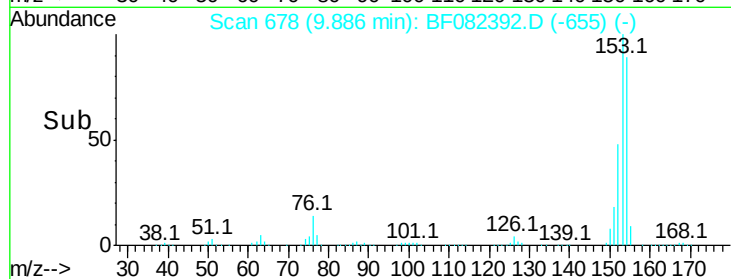
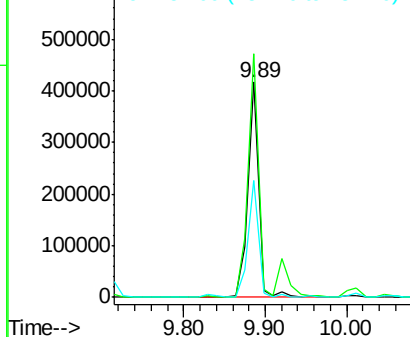
Tot Ion:	154	Resp:	380740
Ion Ratio	Lower	Upper	
154	100		
153	113.2	91.4	137.2
152	54.4	44.3	66.5

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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: 42.52 ng

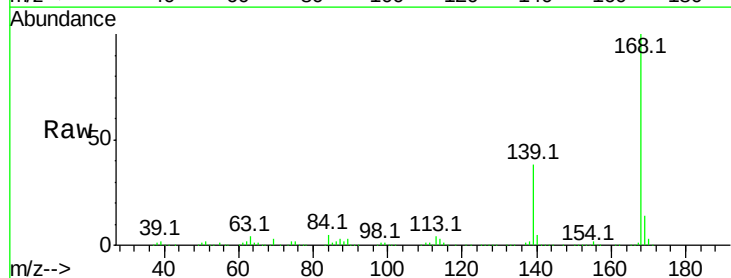
RT: 10.06 min Scan# 693

Delta R.T. -0.03 min

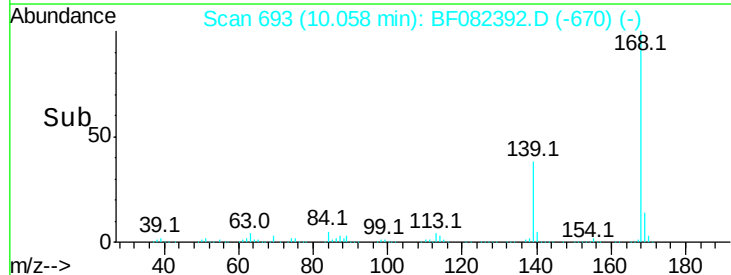
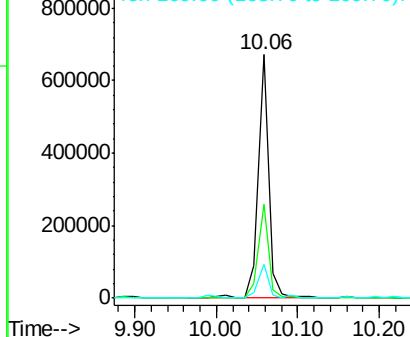
Lab File: BF082392.D

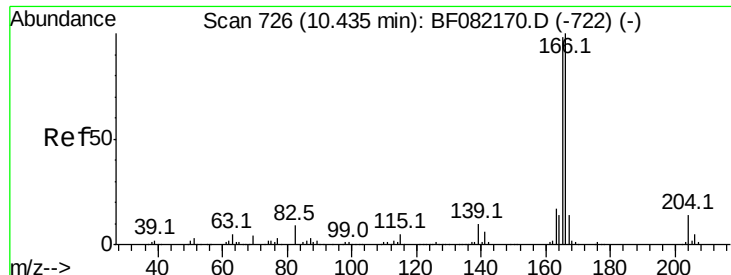
Acq: 20 Oct 2015 9:48

Tgt Ion:	168	Resp:	600765
Ion Ratio	Lower	Upper	
168	100		
139	38.3	31.0	46.6
169	14.1	10.9	16.3



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





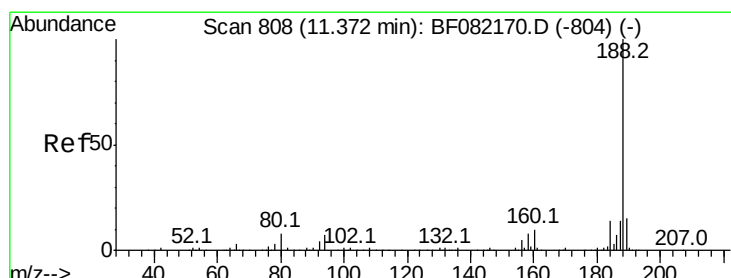
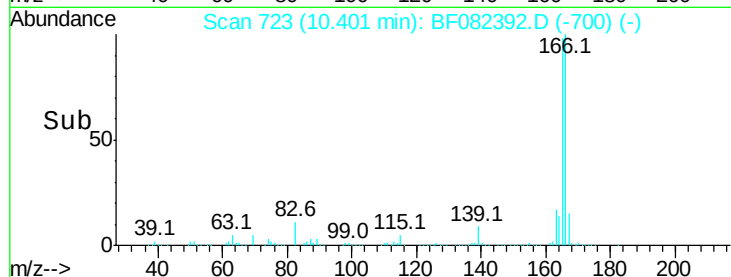
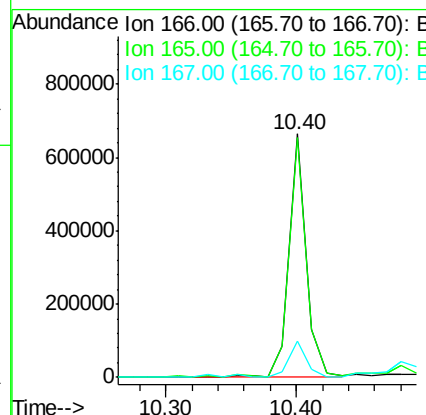
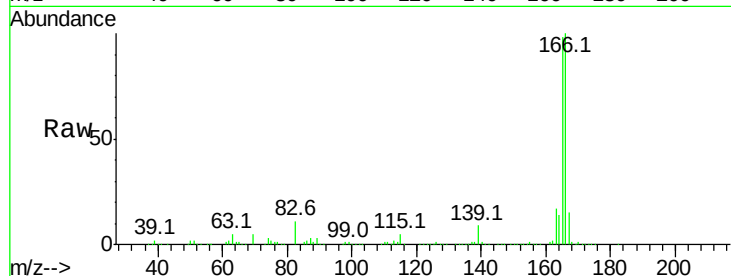
#57
Fluorene
 Concen: 53.47 ng
 RT: 10.40 min Scan# 723
 Delta R.T. -0.03 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	620450		
165	98.2		78.3	117.5
167	14.8		10.8	16.2

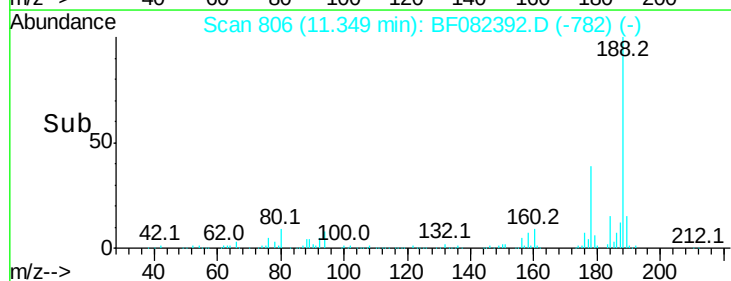
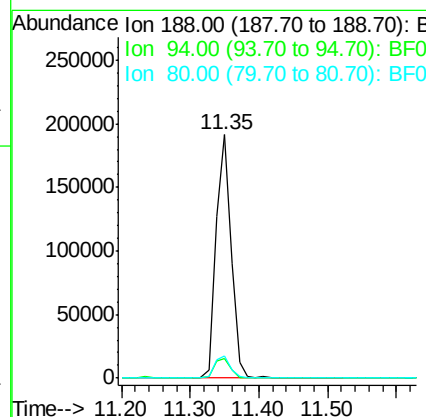
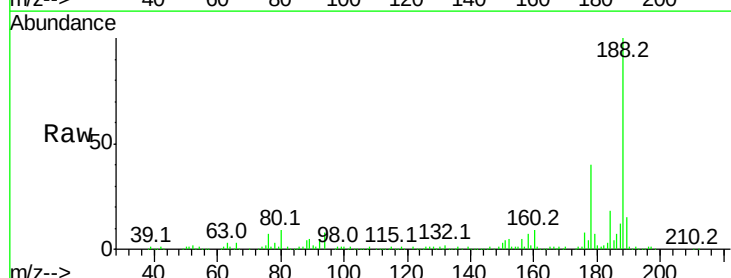
Manual Integrations
APPROVED

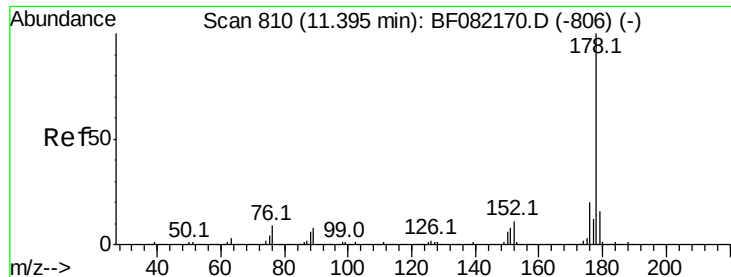
MMdadoda
 10/20/2015 6:26:13 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.35 min Scan# 806
 Delta R.T. -0.02 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	298546		
94	8.1		5.8	8.6
80	8.9		6.4	9.6





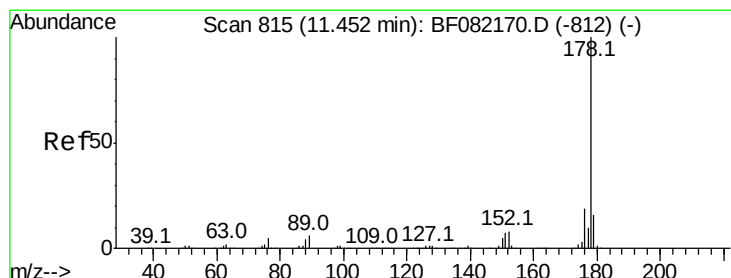
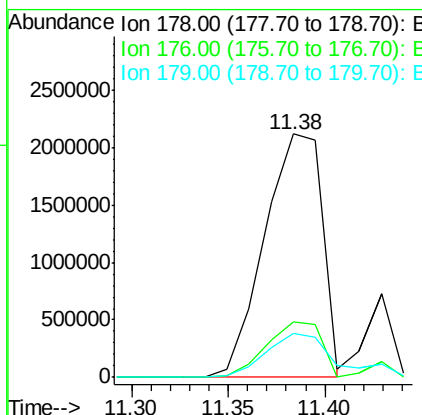
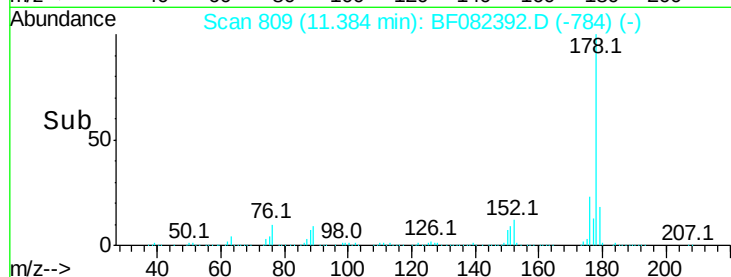
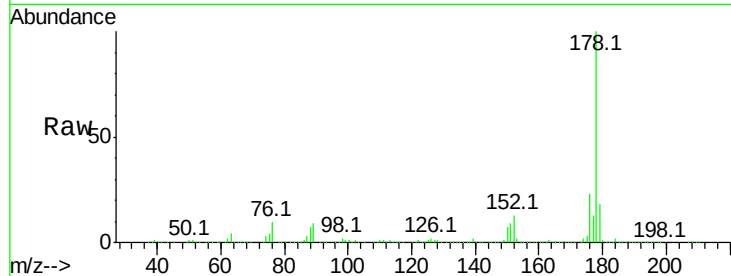
#70
Phenanthrene
Concen: 302.87 ng m
RT: 11.38 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL

Tot Ion:178 Resp: 4432154
Ion Ratio Lower Upper
178 100
176 22.5 16.0 24.0
179 17.9 12.6 19.0

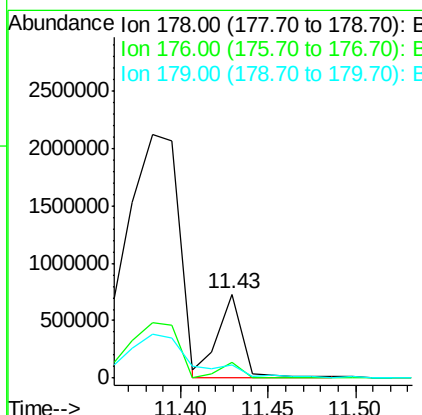
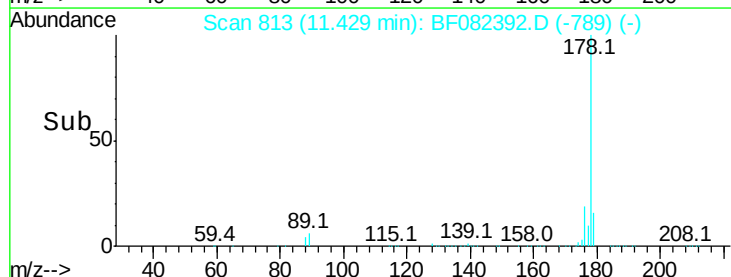
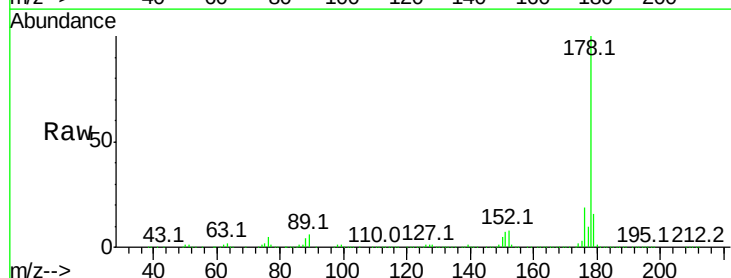
Manual Integrations
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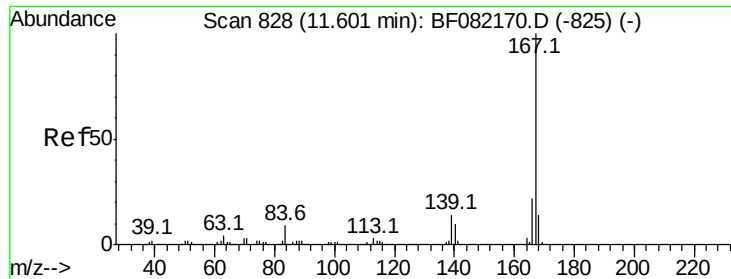
MMdadoda
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#71
Anthracene
Concen: 48.45 ng m
RT: 11.43 min Scan# 813
Delta R.T. -0.02 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Tgt Ion:178 Resp: 730577
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 16.2 12.5 18.7





#72

Carbazole

Concen: 40.12 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

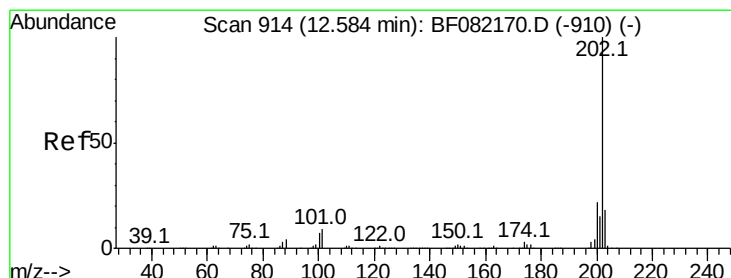
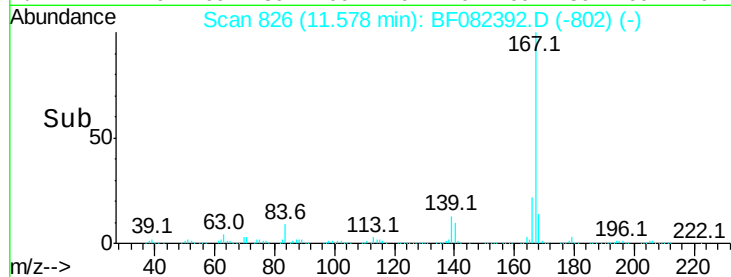
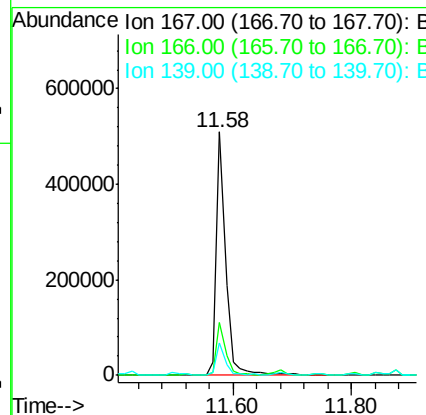
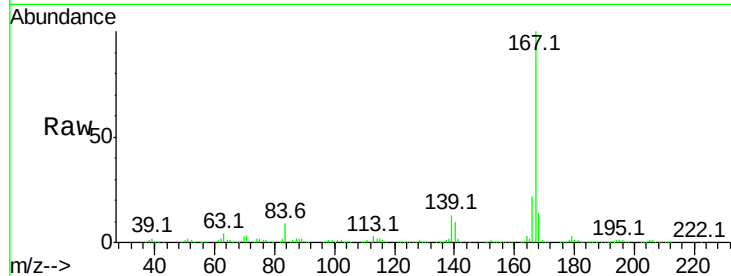
ClientSampleId :

MANAHAWKEN112DL

Tot Ion	Ratio	Resp	Lower	Upper
167	100	551881		
166	21.6		17.3	25.9
139	13.5		11.2	16.8

Manual Integrations
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#74

Fluoranthene

Concen: 202.30 ng

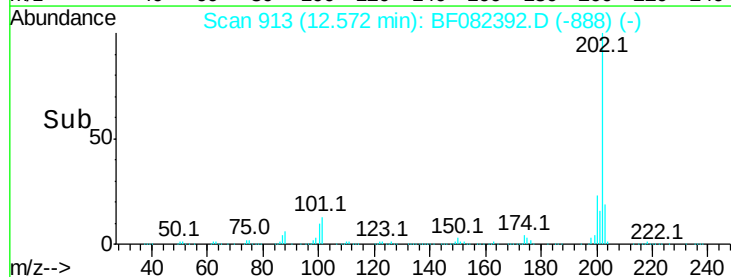
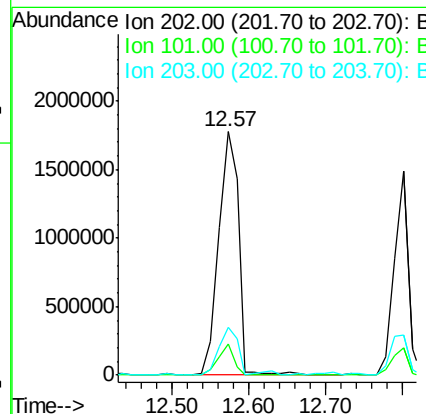
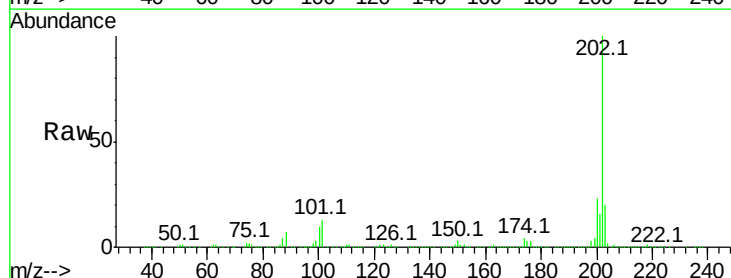
RT: 12.57 min Scan# 913

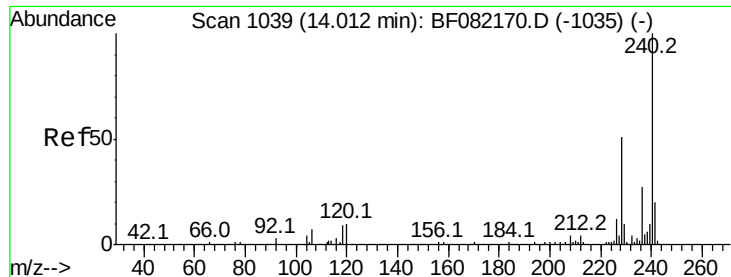
Delta R.T. -0.01 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	3179562		
101	12.7		0.0	29.3
203	19.5		0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1040

Delta R.T. 0.01 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

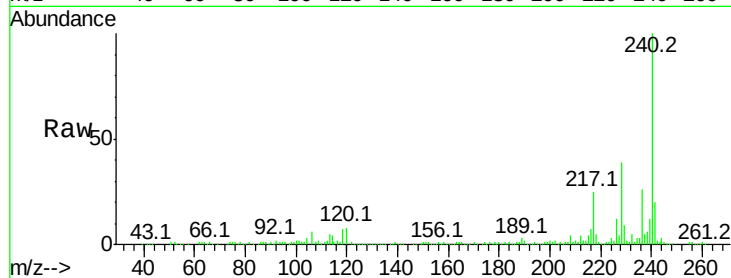
ClientSampleId :

MANAHAWKEN112DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	8.0	8.1	12.1	#
236	26.1	21.3	31.9	

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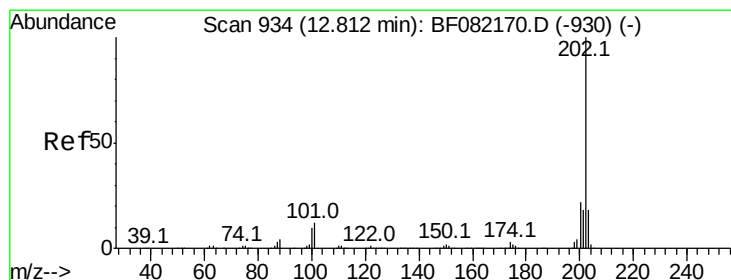
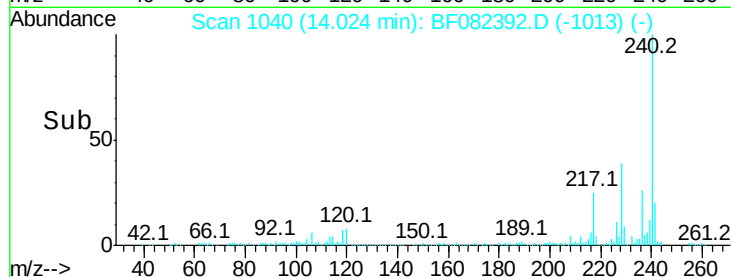
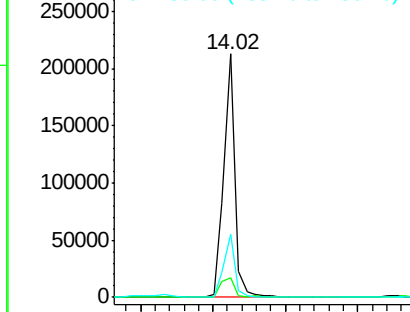
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 135.97 ng

RT: 12.80 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF082392.D

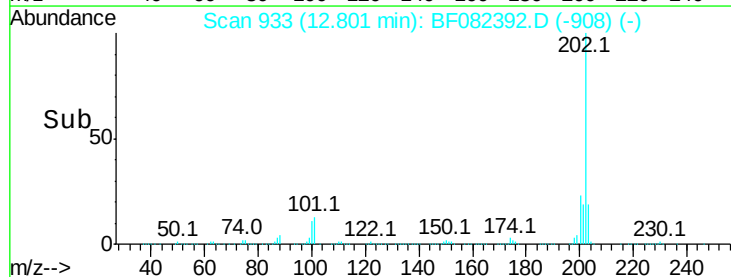
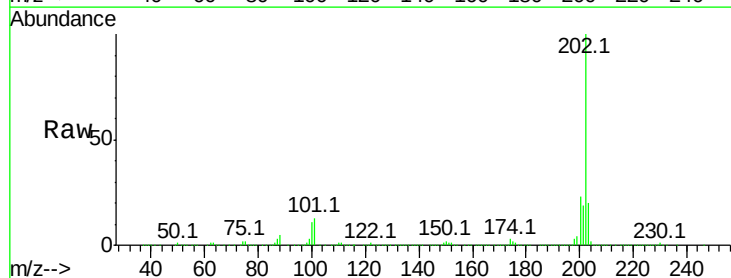
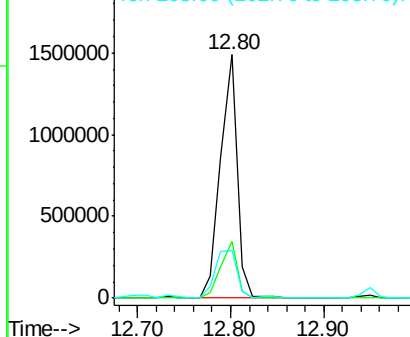
Acq: 20 Oct 2015 9:48

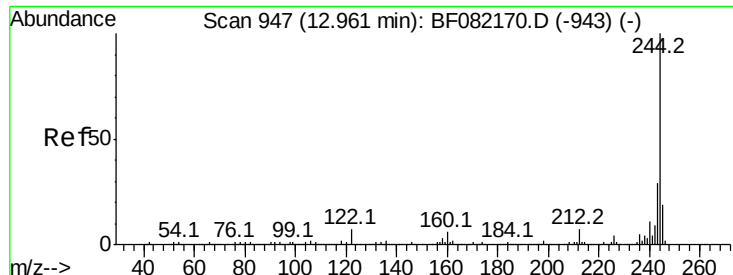
Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	23.1	17.9	26.9	
203	19.5	14.5	21.7	

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: 1.84 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082392.D

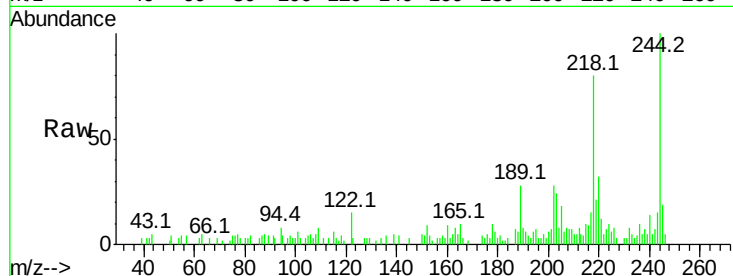
Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

ClientSampleId :

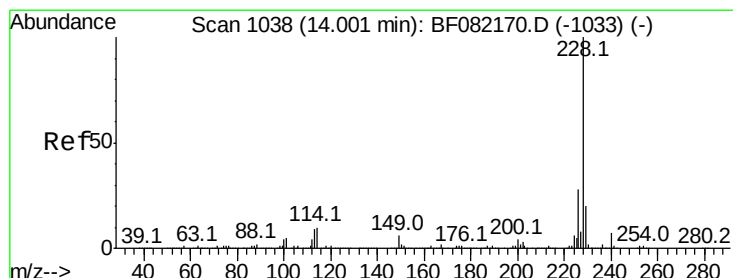
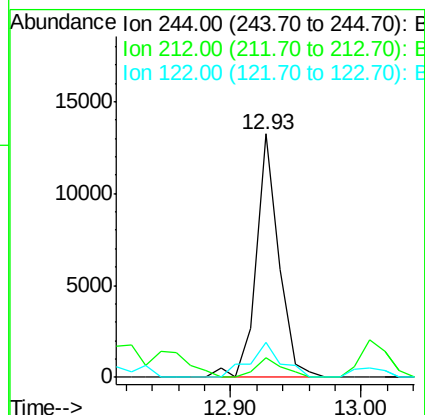
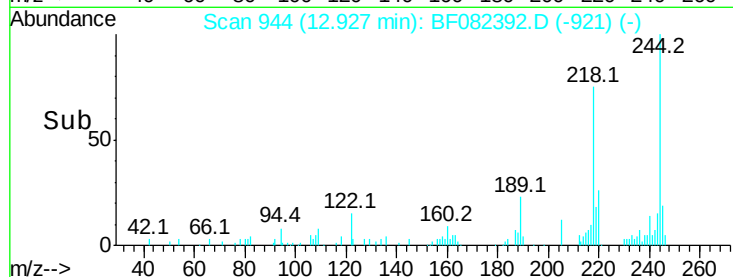
MANAHAWKEN112DL



Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.2	5.8	8.6	
122	14.6	5.9	8.9	

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#80

Benzo(a)anthracene

Concen: 37.31 ng

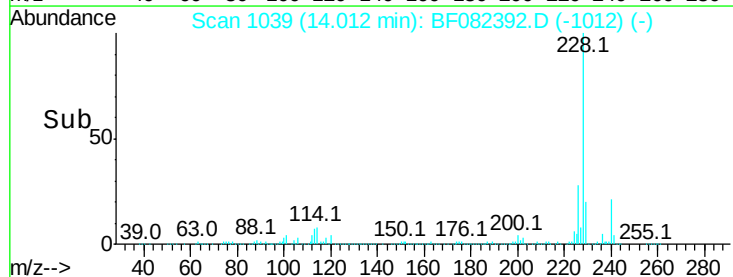
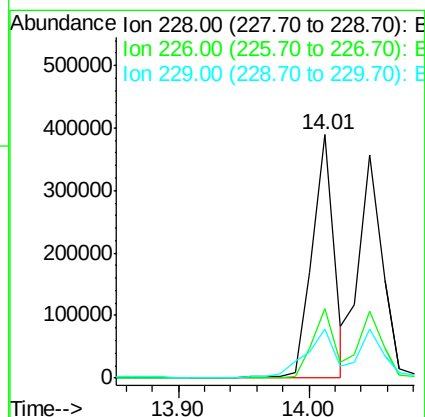
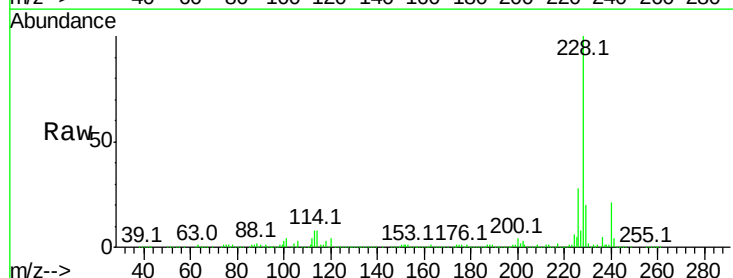
RT: 14.01 min Scan# 1039

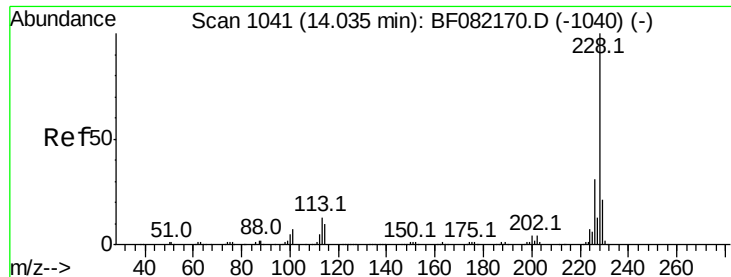
Delta R.T. 0.01 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	28.4	22.3	33.5	
229	20.3	16.2	24.2	





#82

Chrysene

Concen: 36.07 ng/mL

RT: 14.05 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Instrument :

BNA_F

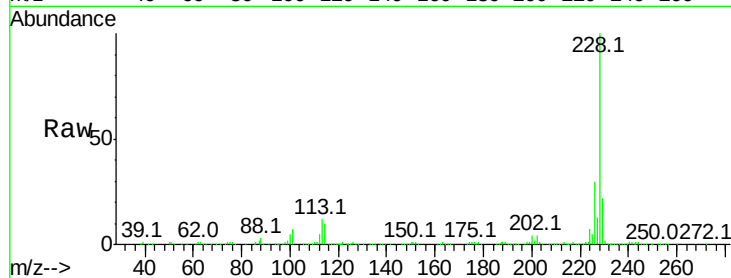
ClientSampleID :

MANAHAWKEN112DL

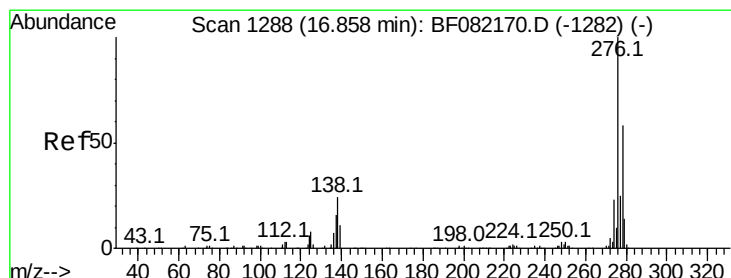
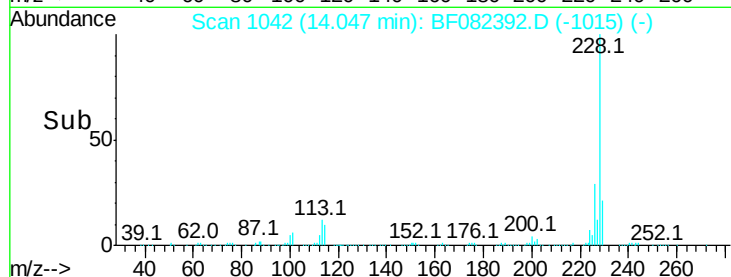
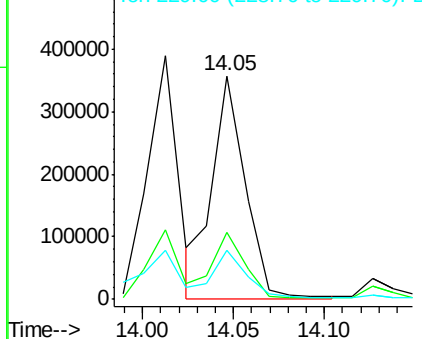
Tot Ion:	228	Resp:	454843
Ion Ratio	Lower	Upper	
228	100		
226	29.7	24.4	36.6
229	22.0	16.3	24.5

Manual Integrations
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.82 ng/mL

RT: 16.95 min Scan# 1296

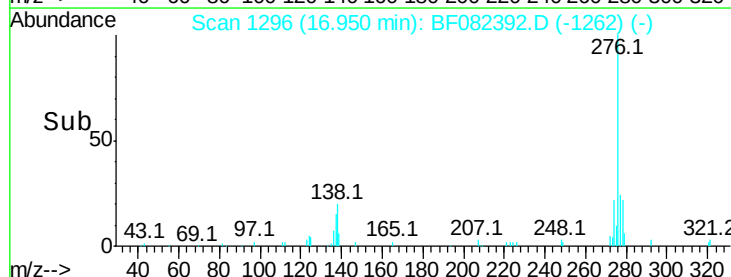
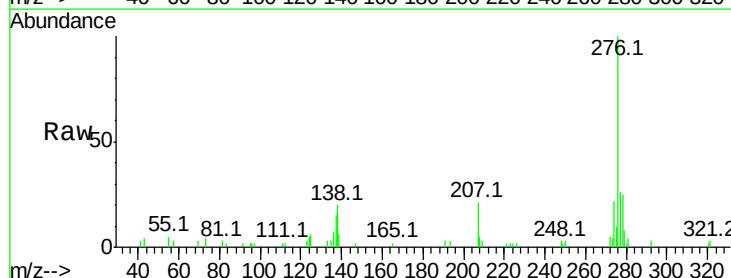
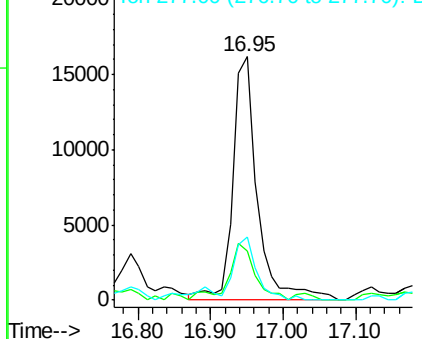
Delta R.T. 0.09 min

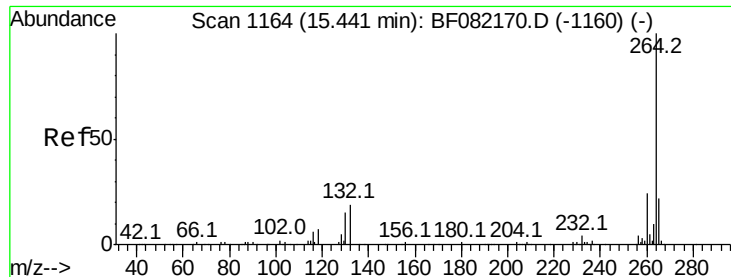
Lab File: BF082392.D

Acq: 20 Oct 2015 9:48

Tgt Ion:	276	Resp:	38287
Ion Ratio	Lower	Upper	
276	100		
138	24.9	19.7	29.5
277	24.0	20.1	30.1

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





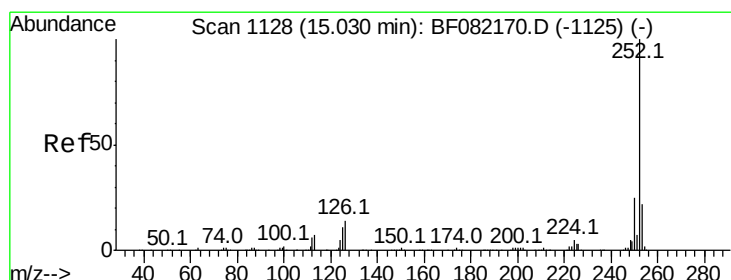
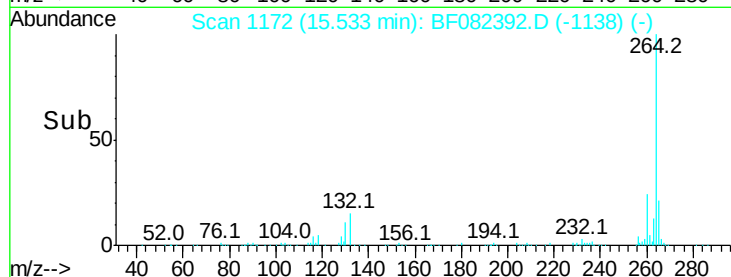
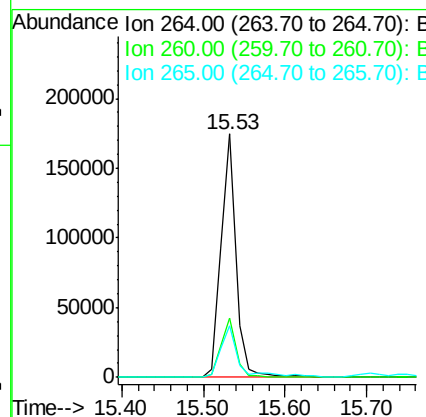
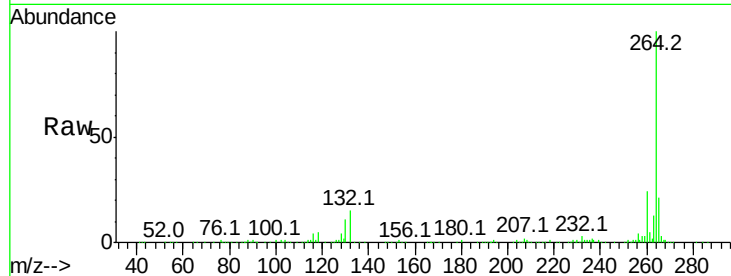
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.53 min Scan# 1172
Delta R.T. 0.09 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.1	19.0	28.6	
265	21.4	17.3	25.9	

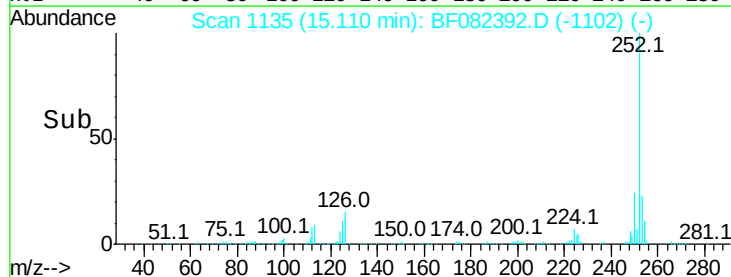
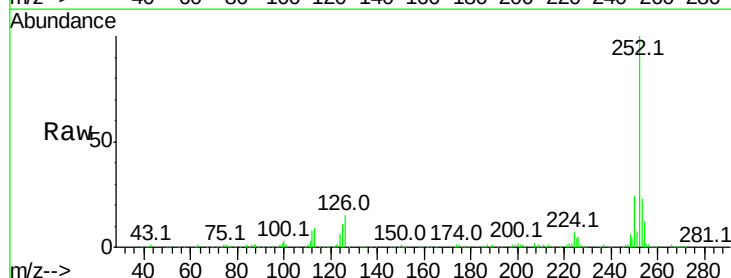
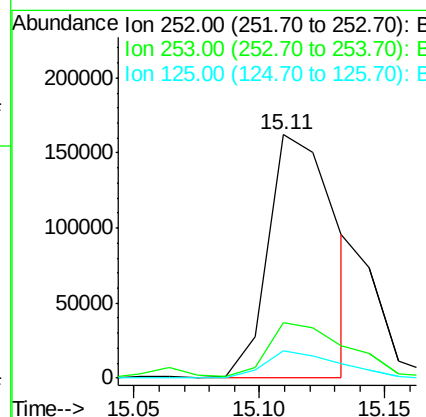
Manual Integrations
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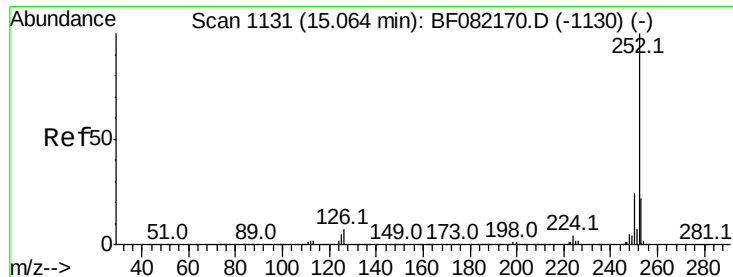
MMdadoda
10/20/2015 6:26:13 PM



#87
Benzo(b)fluoranthene
Concen: 21.91 ng m
RT: 15.11 min Scan# 1135
Delta R.T. 0.08 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.5	18.0	27.0	
125	11.2	8.6	12.8	





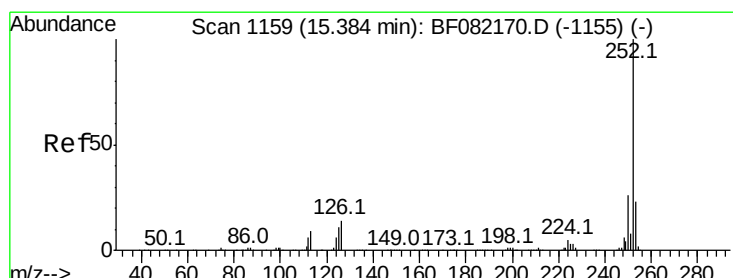
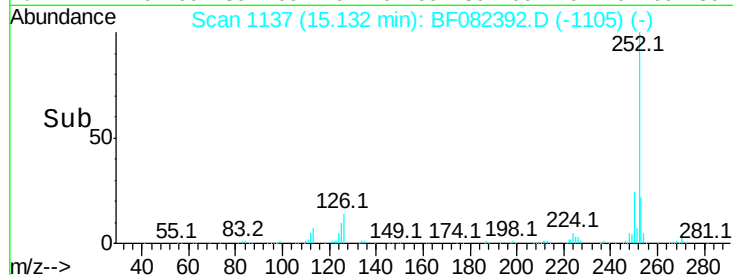
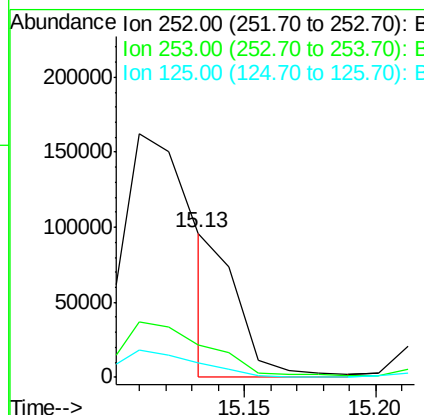
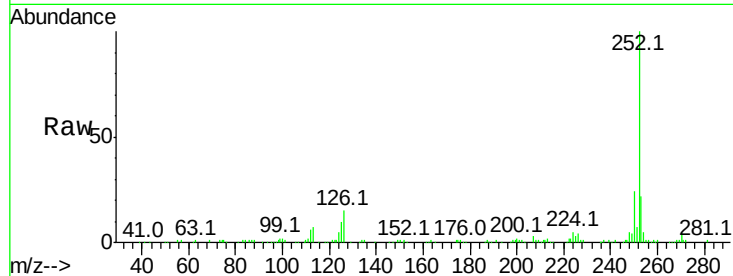
#88
Benzo(k)fluoranthene
Concen: 5.69 ng m
RT: 15.13 min Scan# 1137
Delta R.T. 0.07 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN112DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.4	17.8	26.6
125	10.5	6.7	10.1

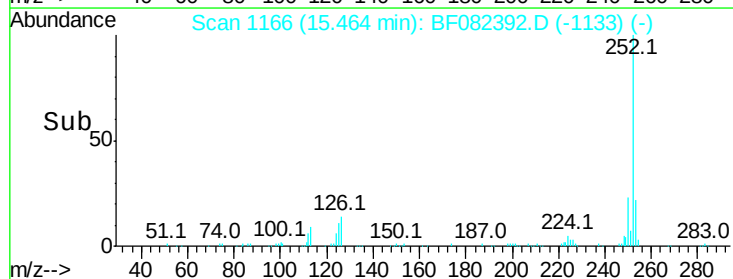
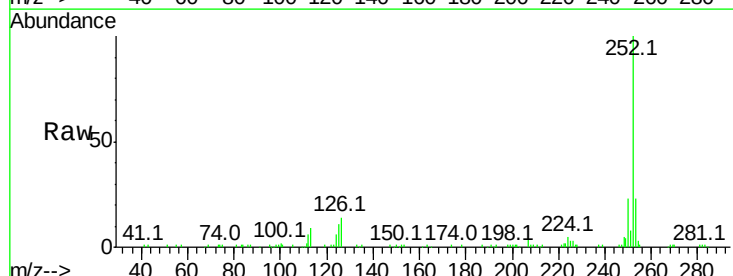
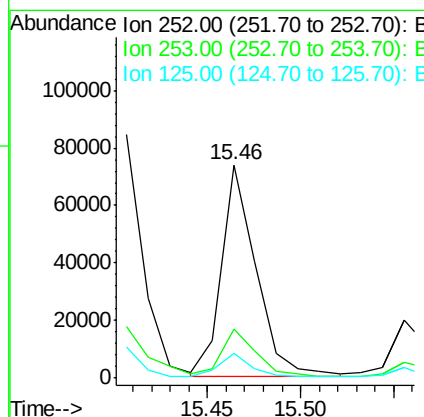
Manual Integrations
APPROVED

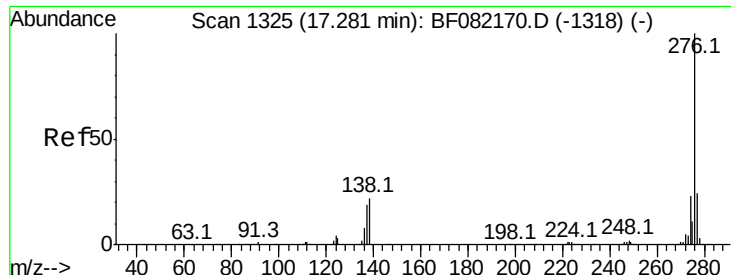
MMdadoda
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#89
Benzo(a)pyrene
Concen: 8.12 ng
RT: 15.46 min Scan# 1166
Delta R.T. 0.08 min
Lab File: BF082392.D
Acq: 20 Oct 2015 9:48

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.8	18.2	27.2
125	11.4	8.9	13.3





#91
 Benzo(a,h,i)perylene
 Concen: 2.65 ng
 RT: 17.37 min Scan# 1333
 Delta R.T. 0.09 min
 Lab File: BF082392.D
 Acq: 20 Oct 2015 9:48

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN112DL

Tot Ion:	276	Resp:	24780
Ion Ratio	Lower	Upper	
276	100		
277	24.9	18.8	28.2
138	22.0	17.4	26.2

Manual Integrations
 APPROVED

MMdadoda
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