

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
 Data File : BF082998.D
 Acq On : 18 Nov 2015 6:54
 Operator : UM/IZ
 Sample : G4423-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN 112

Manual Integrations
 APPROVED

mohammad
 11/19/2015 8:25:56 AM

Quant Time: Nov 18 07:35:40 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 17 04:41:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	162290	20.00	ng	-0.10
21) Naphthalene-d8	8.04	136	658810	20.00	ng	-0.10
38) Acenaphthene-d10	9.79	164	429374	20.00	ng	-0.10
63) Phenanthrene-d10	11.28	188	823002	20.00	ng	-0.10
75) Chrysene-d12	13.91	240	731227	20.00	ng	-0.11
86) Perylene-d12	15.30	264	505230	20.00	ng	-0.16
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1154477	110.68	ng	-0.08
7) Phenol-d6	6.41	99	1553383	112.02	ng	-0.08
23) Nitrobenzene-d5	7.32	82	1267370	83.71	ng	-0.09
41) 2,4,6-Tribromophenol	10.59	330	560546	113.86	ng	-0.09
44) 2-Fluorobiphenyl	9.12	172	2301623	76.83	ng	-0.10
78) Terphenyl-d14	12.86	244	2230193	72.34	ng	-0.10
Target Compounds						
48) Acenaphthylene	9.65	152	92189	2.05	ng	Qvalue 97
51) Acenaphthene	9.82	154	186411	6.53	ng	98
54) Dibenzofuran	10.00	168	227050	5.90	ng	# 85
57) Fluorene	10.34	166	292386	9.38	ng	84
70) Phenanthrene	11.30	178	933099m	19.52	ng	
71) Anthracene	11.34	178	192010m	3.81	ng	
72) Carbazole	11.50	167	1279197	29.03	ng	97
74) Fluoranthene	12.48	202	334157	6.52	ng	95
76) Benzidine	12.67	184	133900	5.46	ng	# 95
77) Pyrene	12.70	202	189756	3.78	ng	97

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

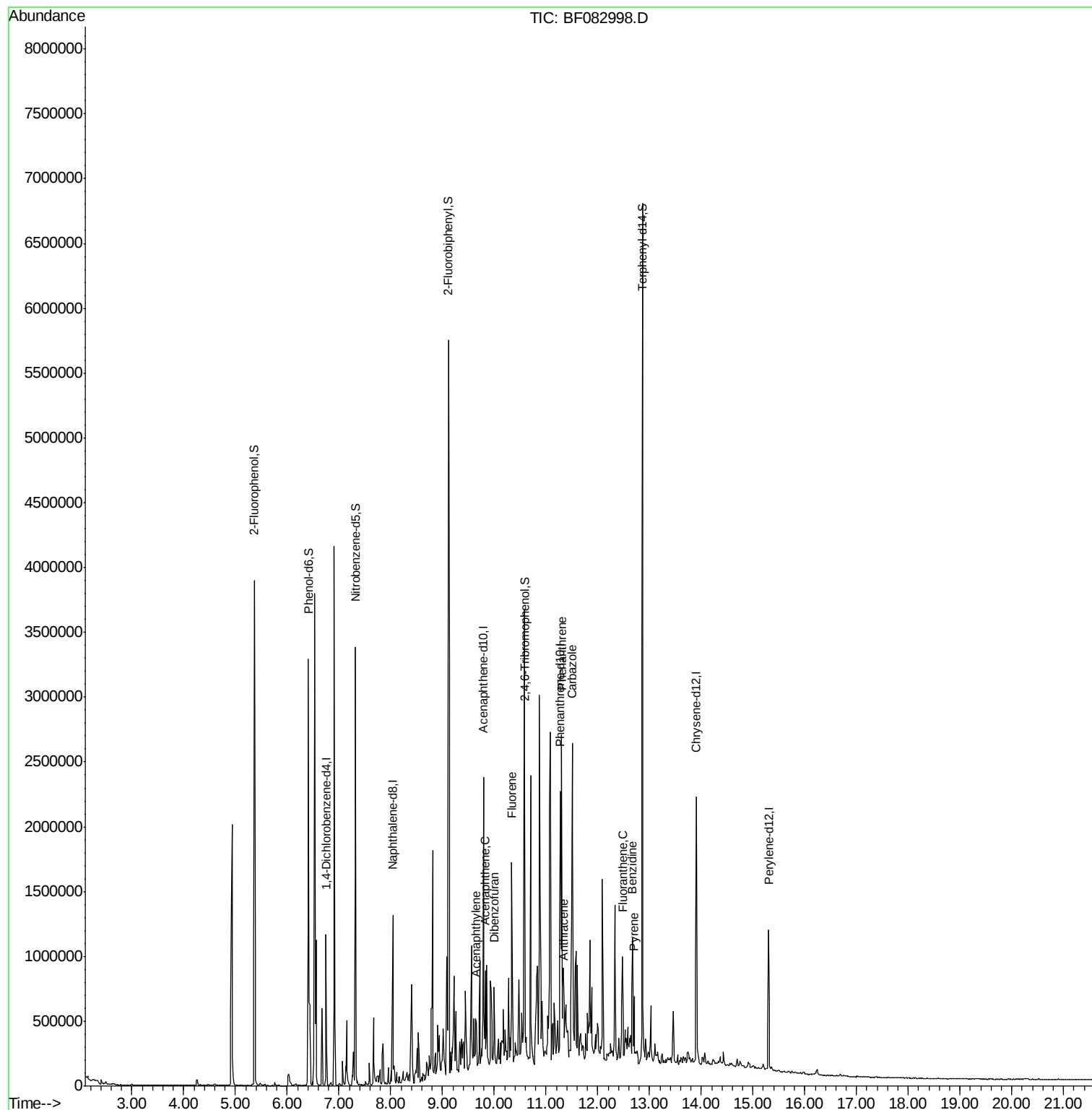
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111715\
Data File : BF082998.D
Acq On : 18 Nov 2015 6:54
Operator : UM/IZ
Sample : G4423-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

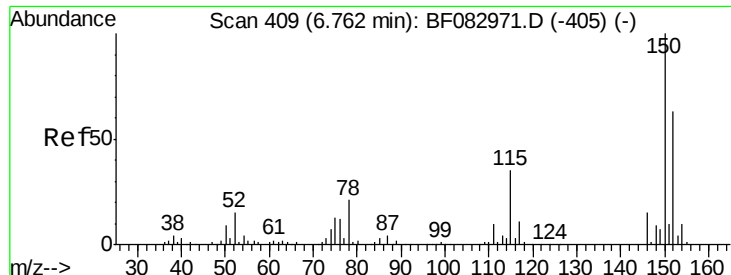
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.10 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

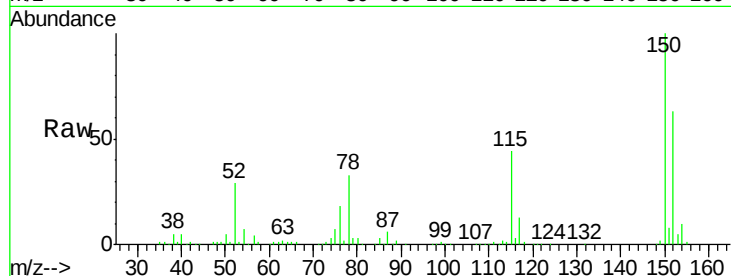
ClientSampleId :

MANAHAWKEN 112

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	162290		
150	158.9	127.0	190.4	
115	69.4	47.0	70.6	

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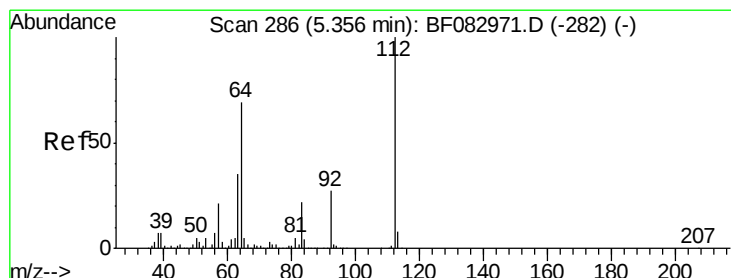
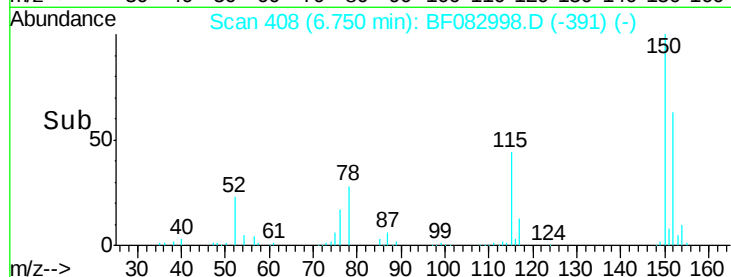
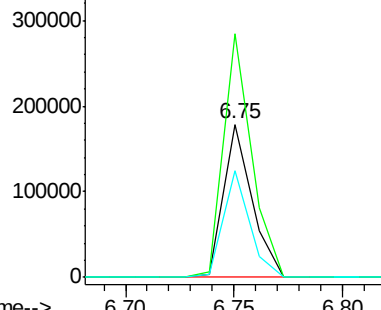
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 110.68 ng

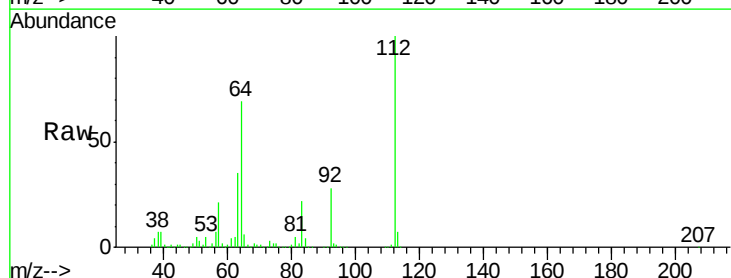
RT: 5.37 min Scan# 287

Delta R.T. -0.08 min

Lab File: BF082998.D

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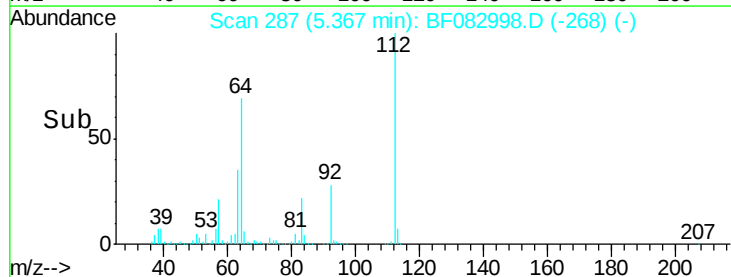
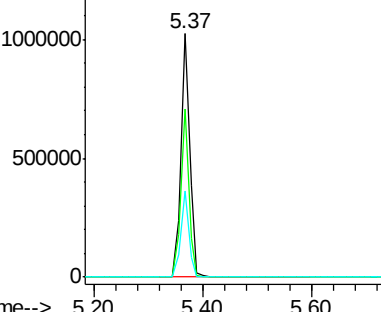
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1154477		
64	68.9	48.9	73.3	
63	35.3	28.1	42.1	



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: 112.02 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.08 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

ClientSampleId :

MANAHAWKEN 112

Tgt Ion: 99 Resp: 1553383

Ion Ratio Lower Upper

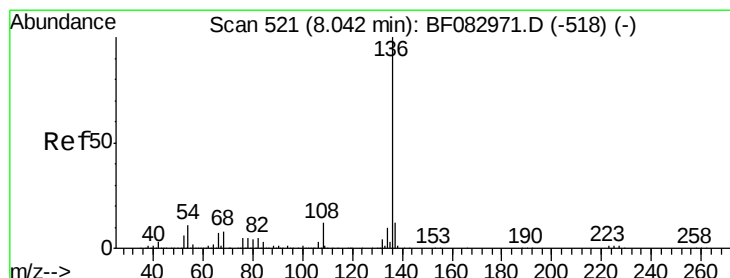
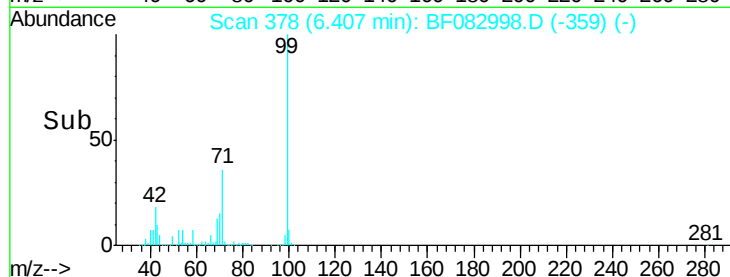
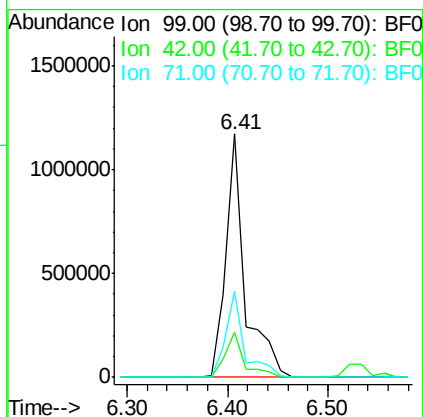
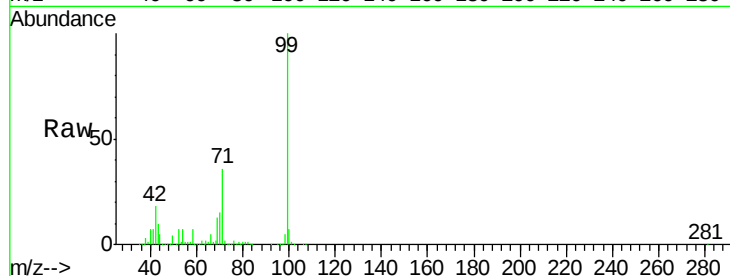
99 100

42 18.4 19.2 28.8#

71 35.5 35.0 52.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.10 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Tgt Ion: 136 Resp: 658810

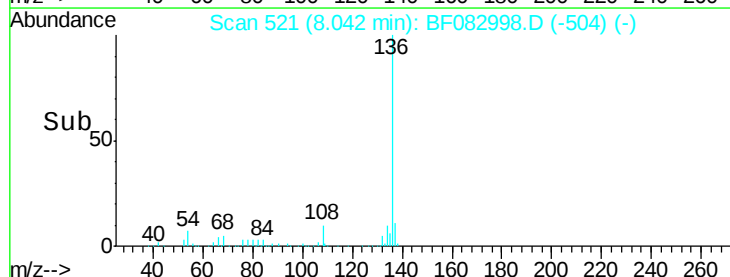
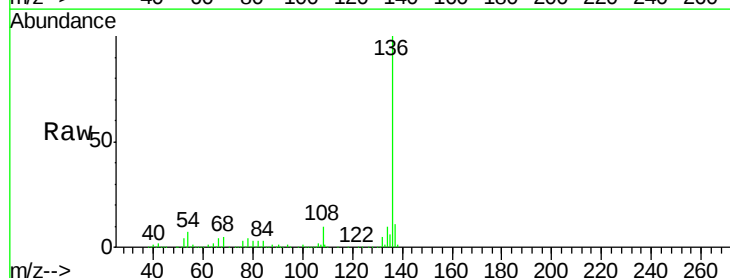
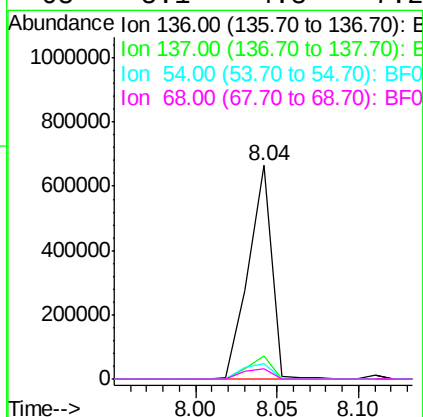
Ion Ratio Lower Upper

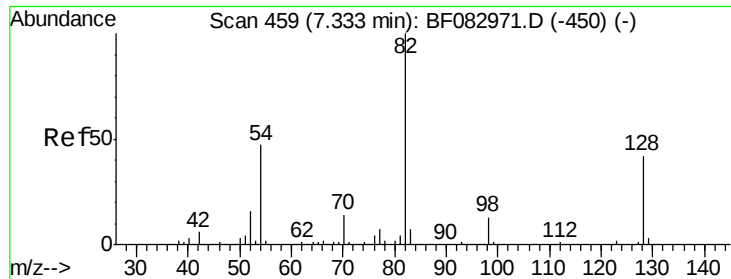
136 100

137 10.8 9.1 13.7

54 7.0 9.1 13.7#

68 5.1 4.8 7.2





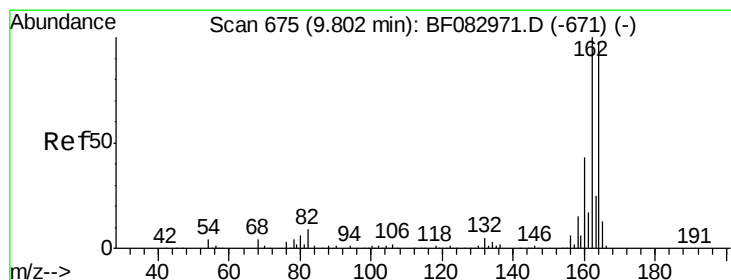
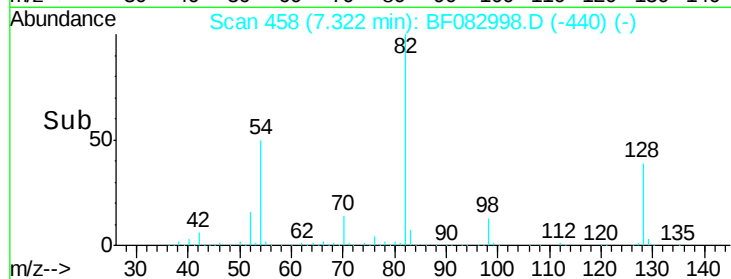
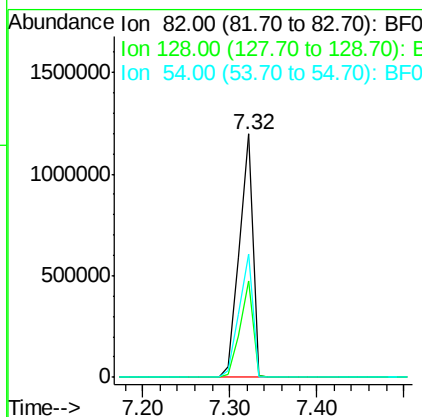
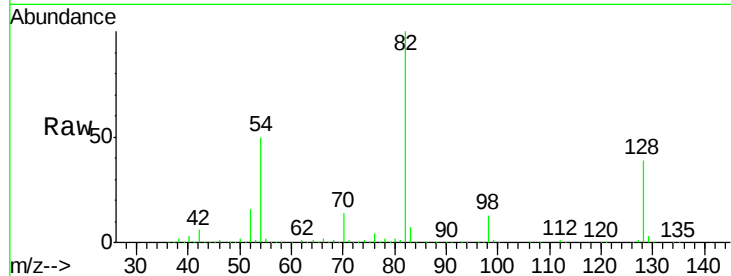
#23
Nitrobenzene-d5
Concen: 83.71 ng
RT: 7.32 min Scan# 458
Delta R.T. -0.09 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN 112

Tgt Ion: 82 Resp: 1267370
Ion Ratio Lower Upper
82 100
128 39.5 26.8 40.2
54 50.4 45.7 68.5

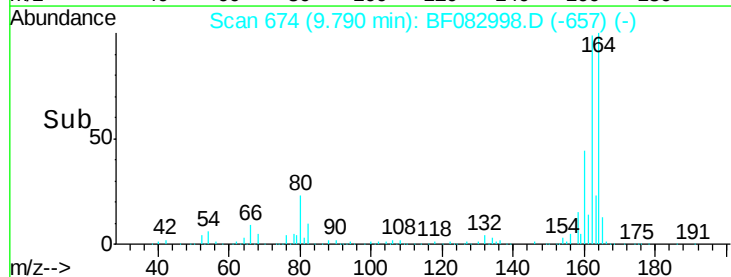
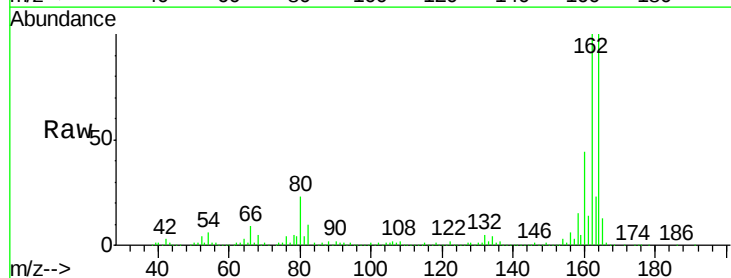
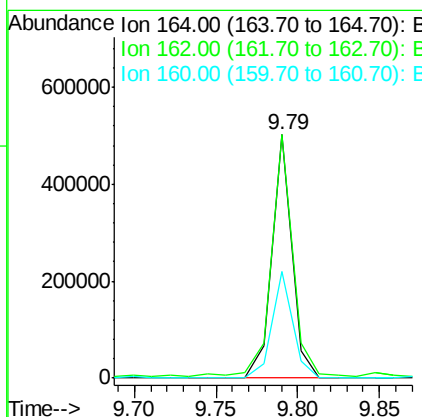
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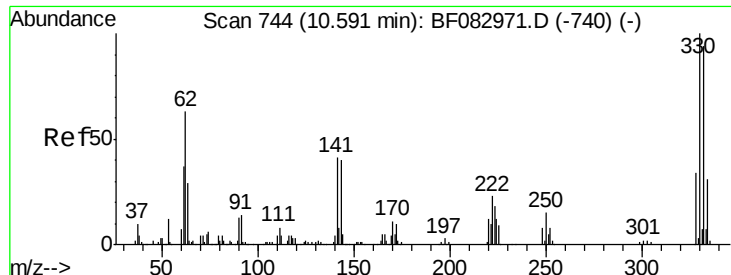
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.79 min Scan# 674
Delta R.T. -0.10 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Tgt Ion: 164 Resp: 429374
Ion Ratio Lower Upper
164 100
162 100.1 84.9 127.3
160 44.1 37.5 56.3





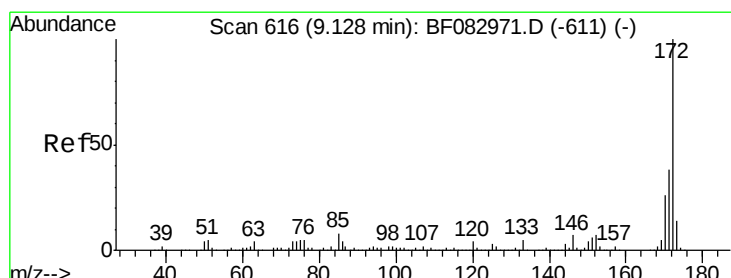
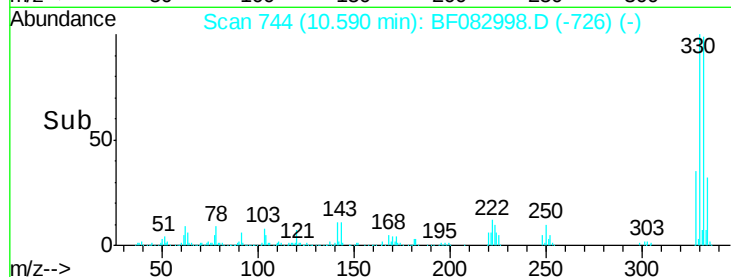
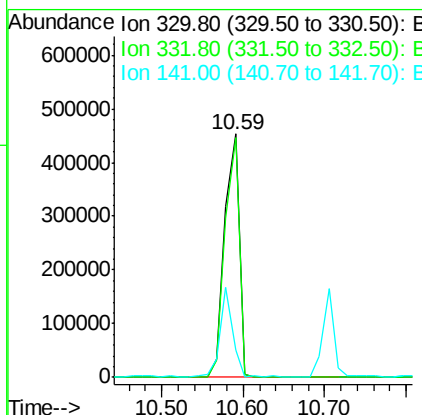
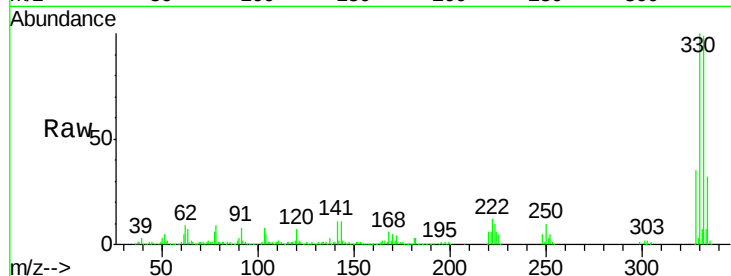
#41
 2,4,6-Tribromophenol
 Concen: 113.86 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.09 min
 Lab File: BF082998.D
 Acq: 18 Nov 2015 6:54

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN 112

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	560546		
332	95.7	76.6	114.8	
141	31.9	41.2	61.8#	

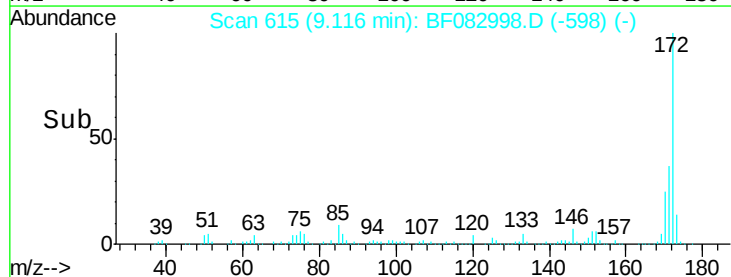
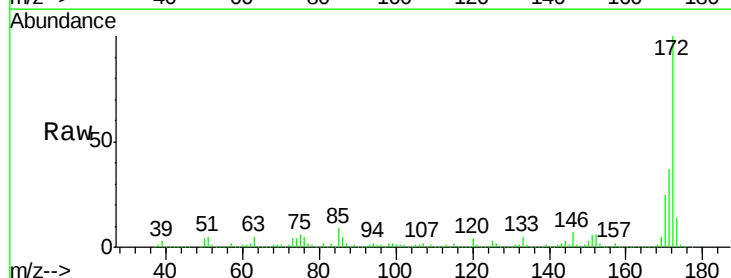
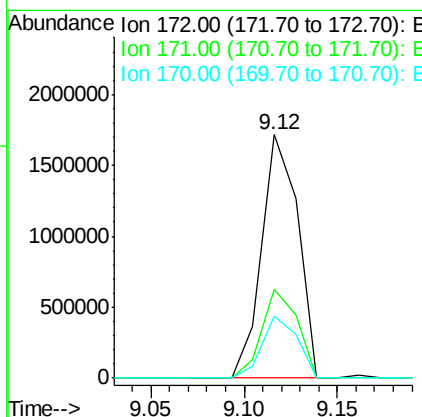
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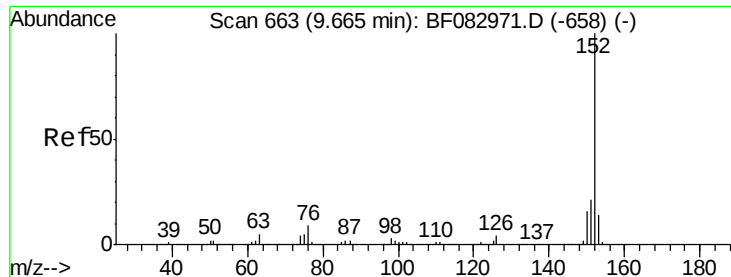
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#44
 2-Fluorobiphenyl
 Concen: 76.83 ng
 RT: 9.12 min Scan# 615
 Delta R.T. -0.10 min
 Lab File: BF082998.D
 Acq: 18 Nov 2015 6:54

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2301623		
171	36.7	30.8	46.2	
170	25.4	21.2	31.8	





#48

Acenaphthylene

Concen: 2.05 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.10 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

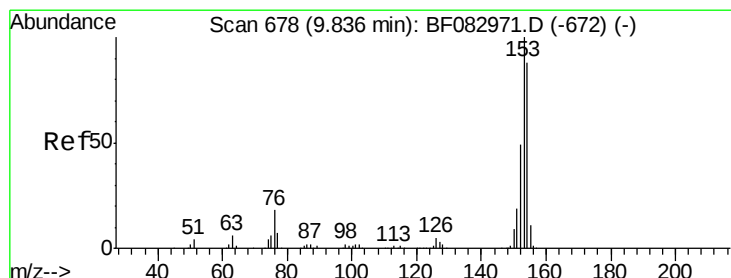
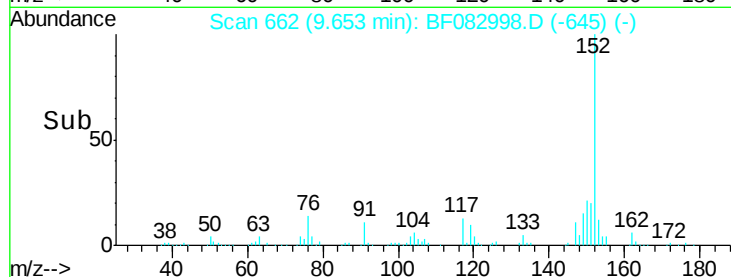
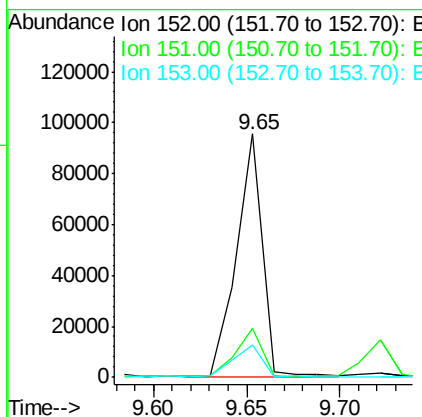
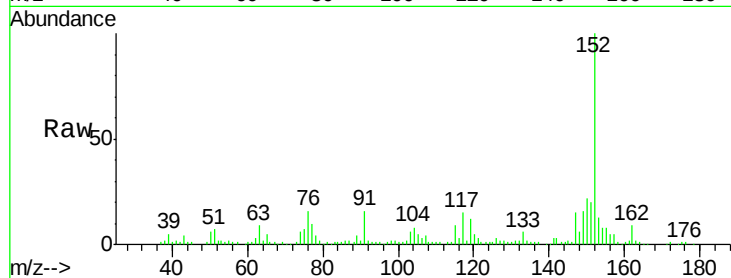
ClientSampleId :

MANAHAWKEN 112

Tgt Ion:	152	Resp:	92189
Ion Ratio	Lower	Upper	
152	100		
151	20.0	17.3	25.9
153	13.1	11.3	16.9

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#51

Acenaphthene

Concen: 6.53 ng

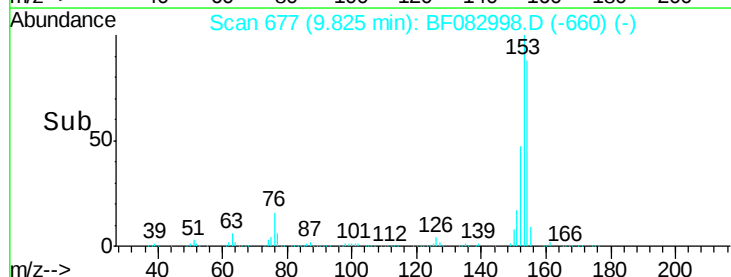
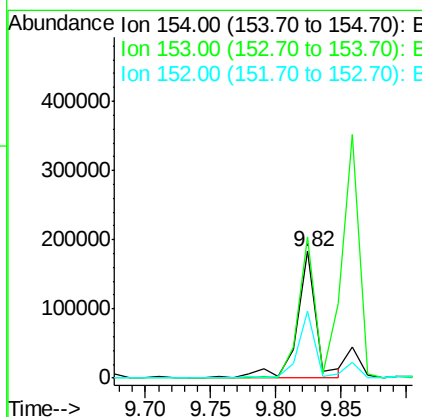
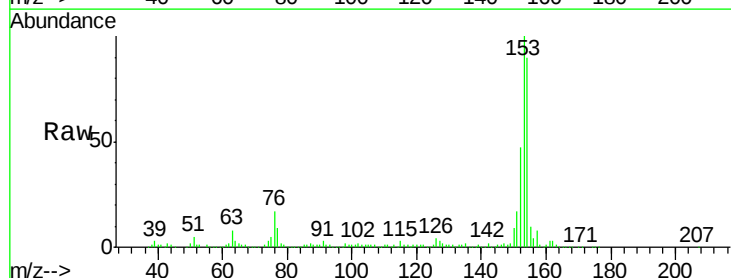
RT: 9.82 min Scan# 677

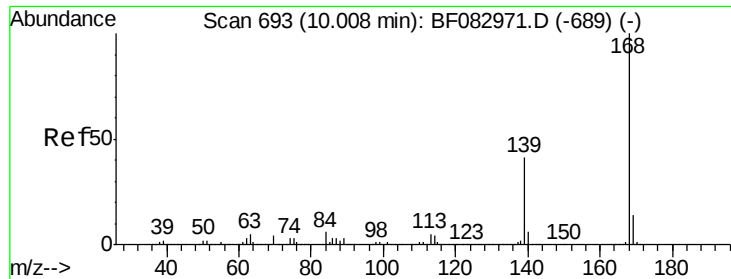
Delta R.T. -0.10 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Tgt Ion:	154	Resp:	186411
Ion Ratio	Lower	Upper	
154	100		
153	111.2	90.1	135.1
152	52.8	44.3	66.5





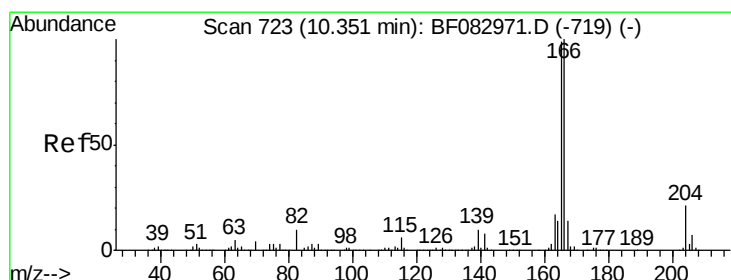
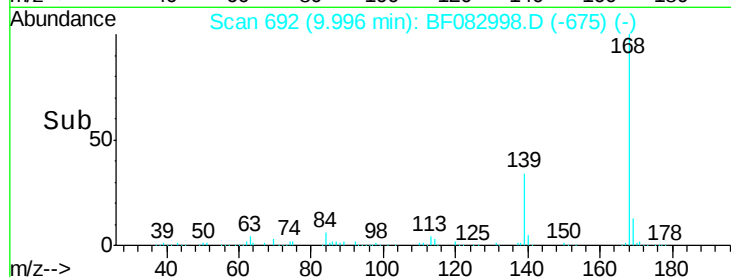
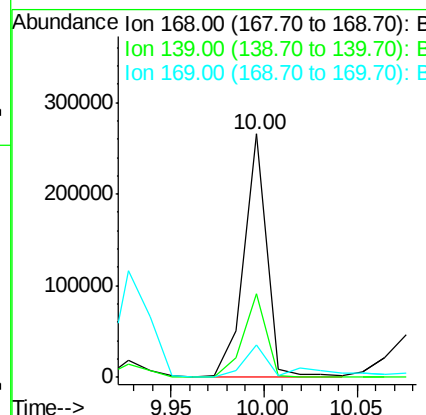
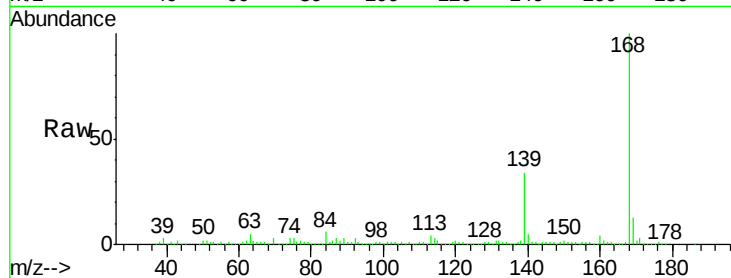
#54
Dibenzofuran
Concen: 5.90 ng
RT: 10.00 min Scan# 692
Delta R.T. -0.10 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Instrument :
BNA_F
ClientSampleId :
MANAHAWKEN 112

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	227050		
139	34.5	37.8	56.6#	
169	13.5	11.3	16.9	

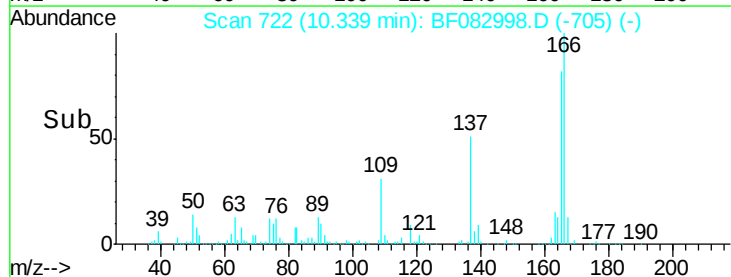
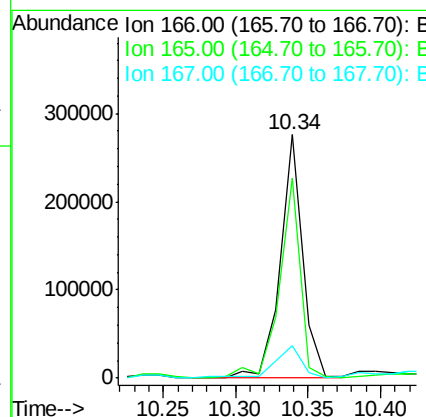
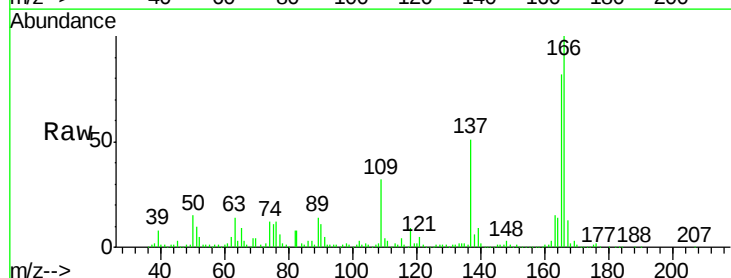
Manual Integrations
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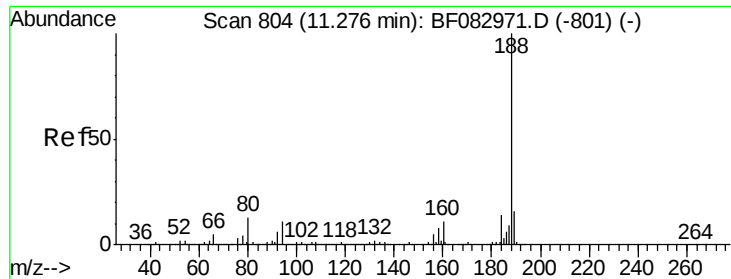
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#57
Fluorene
Concen: 9.38 ng
RT: 10.34 min Scan# 722
Delta R.T. -0.10 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	292386		
165	82.1	80.2	120.4	
167	13.5	11.2	16.8	





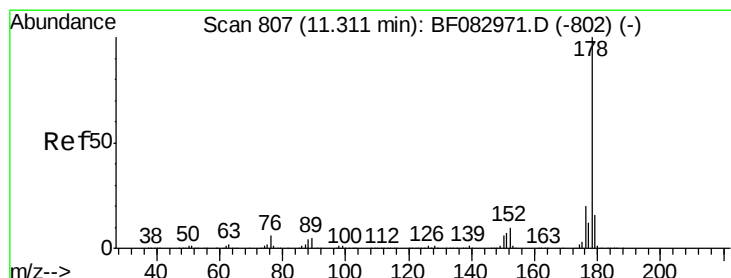
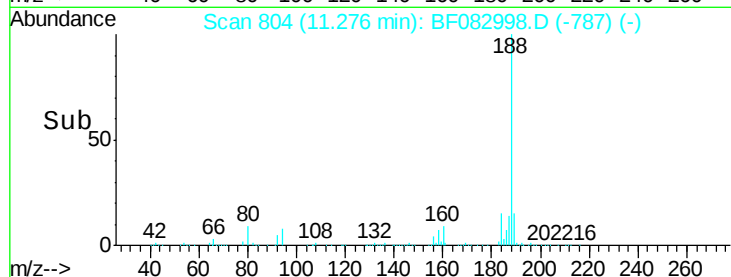
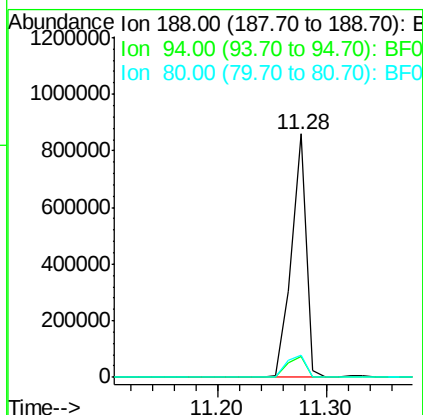
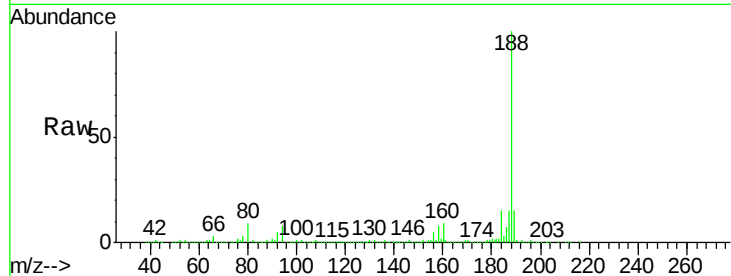
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.10 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Instrument :
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ClientSampleId :
MANAHAWKEN 112

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.4	6.1	9.1
80	9.0	7.0	10.6

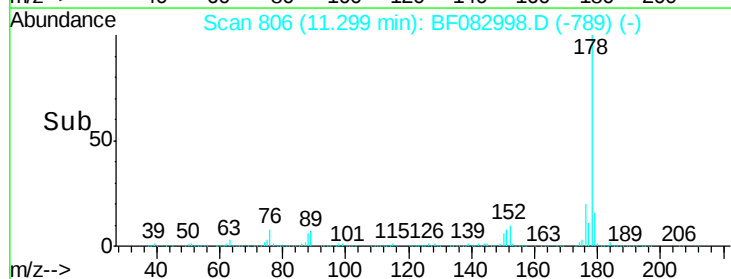
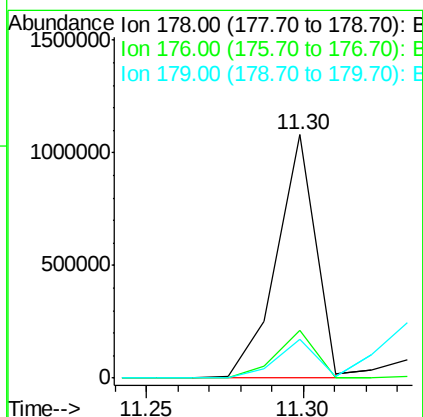
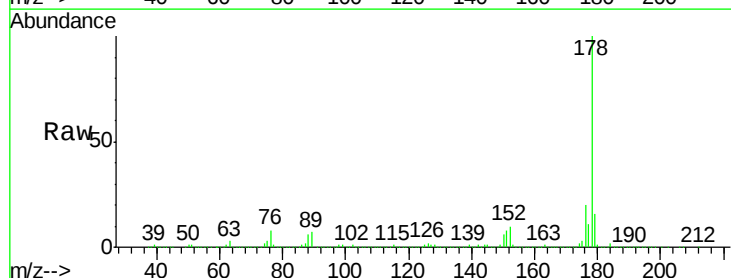
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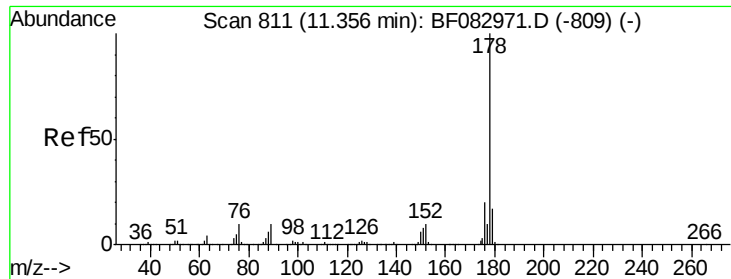
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#70
Phenanthrene
Concen: 19.52 ng m
RT: 11.30 min Scan# 806
Delta R.T. -0.10 min
Lab File: BF082998.D
Acq: 18 Nov 2015 6:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.8	17.0	25.4
179	16.0	13.4	20.0





#71

Anthracene

Concen: 3.81 ng m

RT: 11.34 min Scan# 810

Delta R.T. -0.10 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

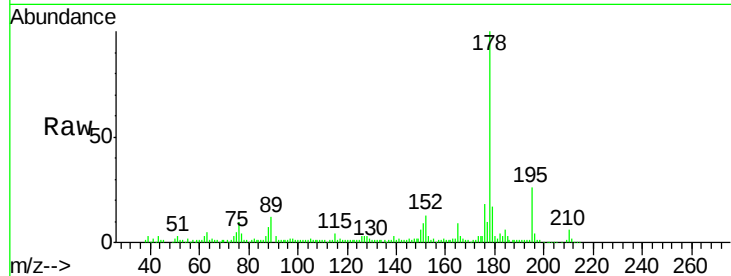
ClientSampleId :

MANAHAWKEN 112

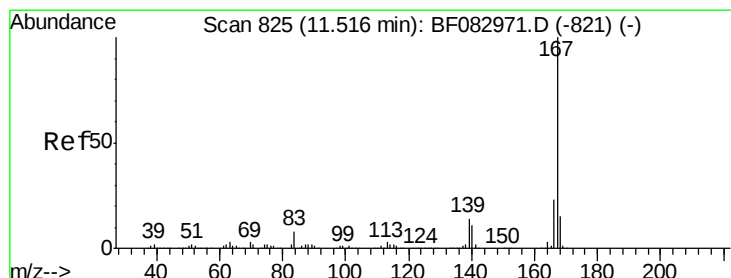
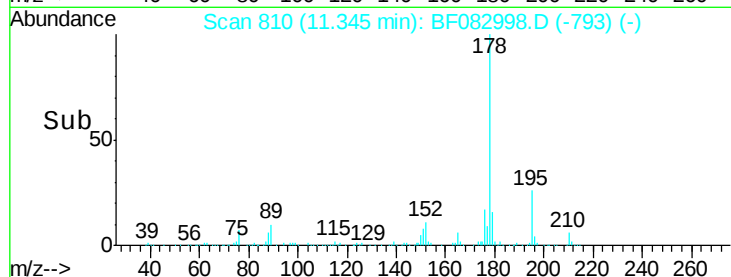
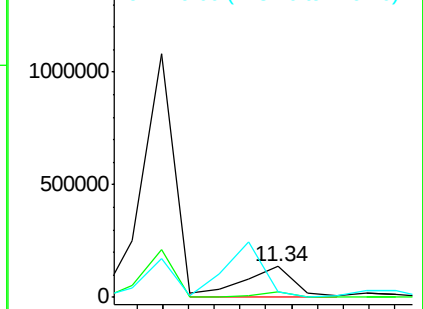
Tgt Ion:	178	Resp:	192010
Ion Ratio		Lower	Upper
178	100		
176	18.5	16.5	24.7
179	16.9	13.2	19.8

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 29.03 ng

RT: 11.50 min Scan# 824

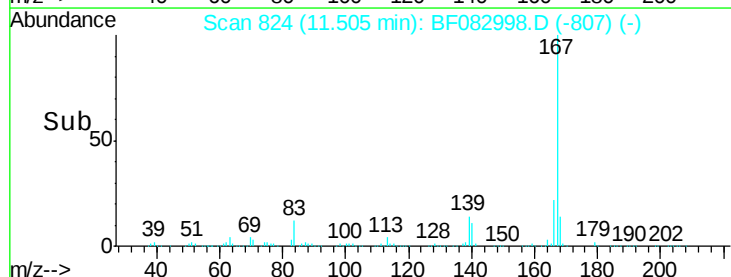
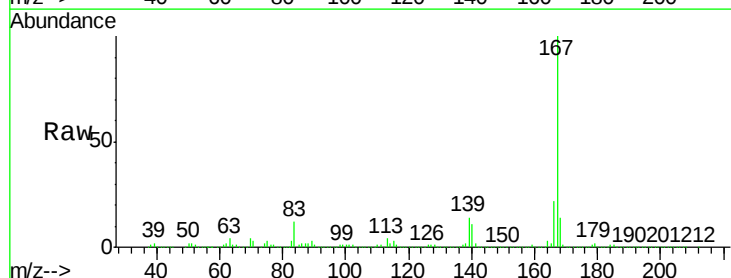
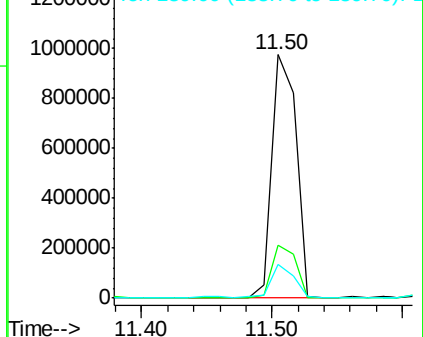
Delta R.T. -0.10 min

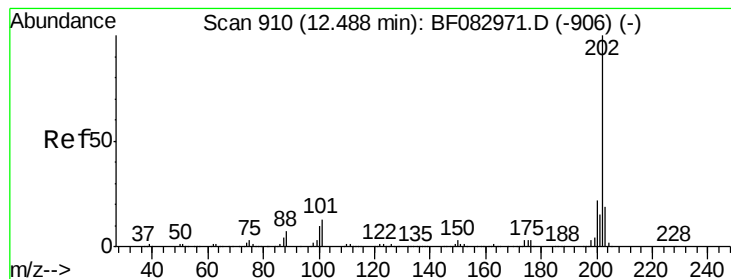
Lab File: BF082998.D

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Tgt Ion:	167	Resp:	1279197
Ion Ratio		Lower	Upper
167	100		
166	22.0	18.7	28.1
139	13.9	11.8	17.6

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





#74

Fluoranthene

Concen: 6.52 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.11 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

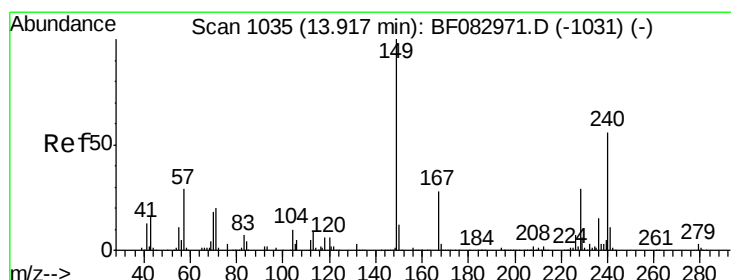
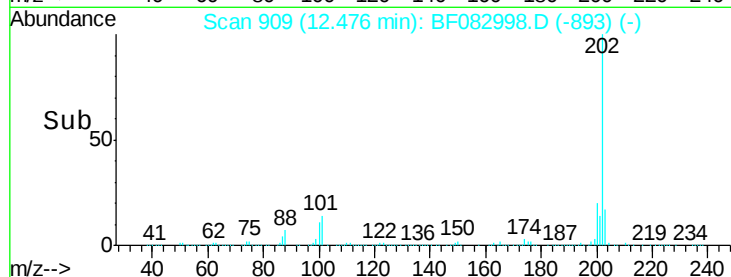
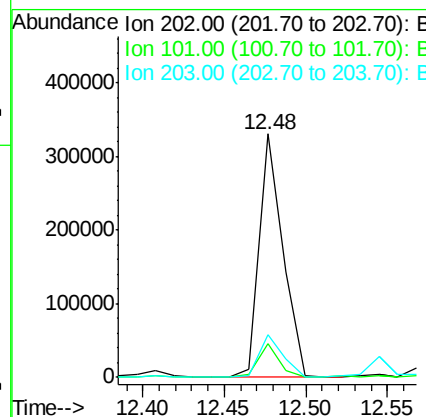
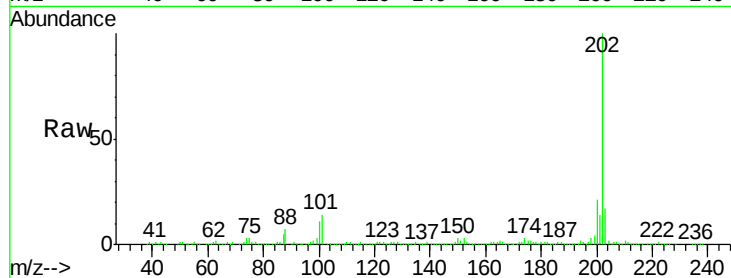
ClientSampleId :

MANAHAWKEN 112

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		334157		
101	14.1	0.0	30.5		
203	17.3	0.0	38.5		

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#75

Chrysene-d12

Concen: 20.00 ng

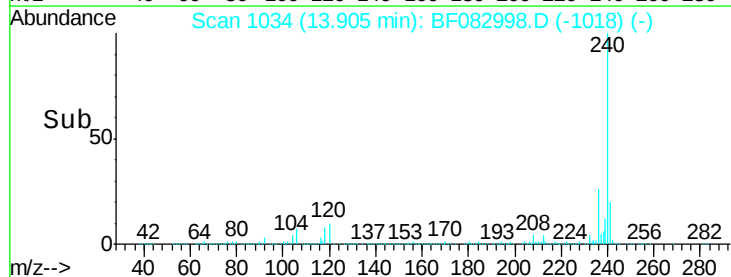
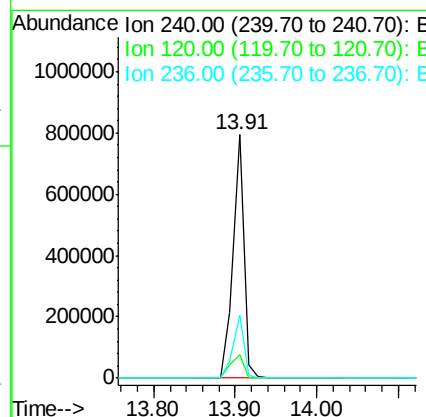
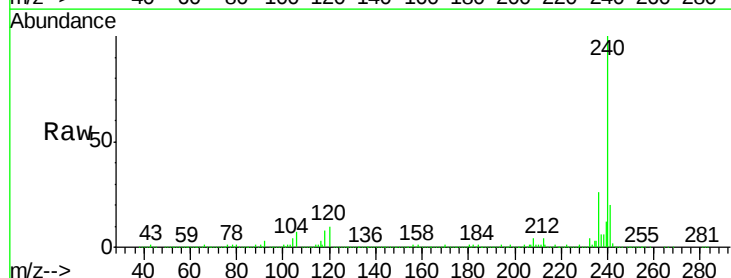
RT: 13.91 min Scan# 1034

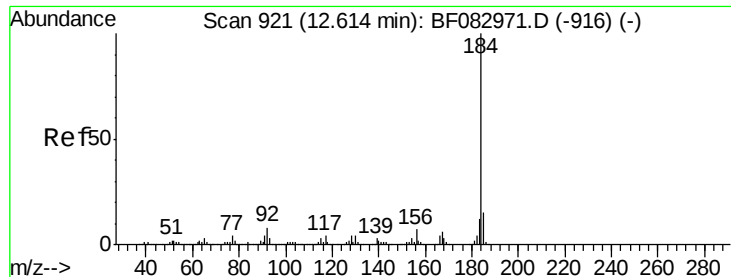
Delta R.T. -0.11 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		731227		
120	9.6	10.9	16.3#		
236	25.9	21.6	32.4		





#76

Benzidine

Concen: 5.46 ng

RT: 12.67 min Scan# 926

Delta R.T. -0.03 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Instrument :

BNA_F

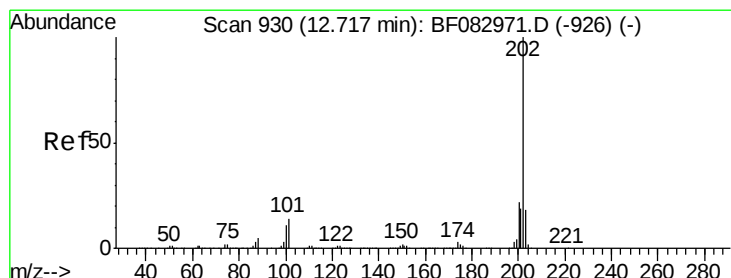
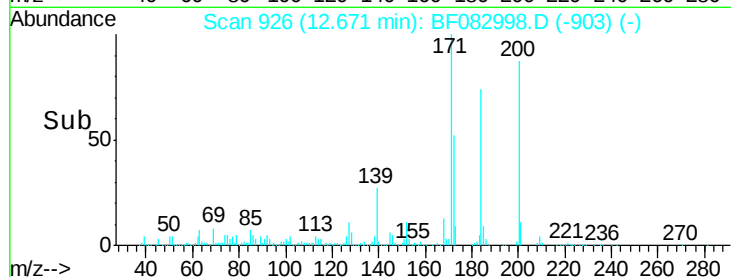
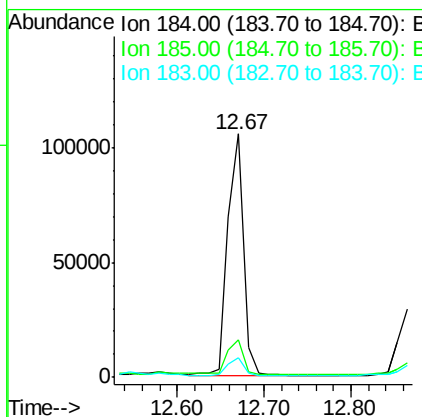
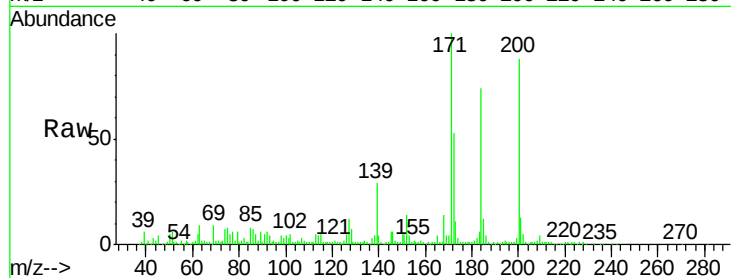
ClientSampleId :

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Tgt Ion	Ratio	Resp Lower	Resp Upper
184	100		
185	15.5	12.0	18.0
183	8.1	9.6	14.4

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#77

Pyrene

Concen: 3.78 ng

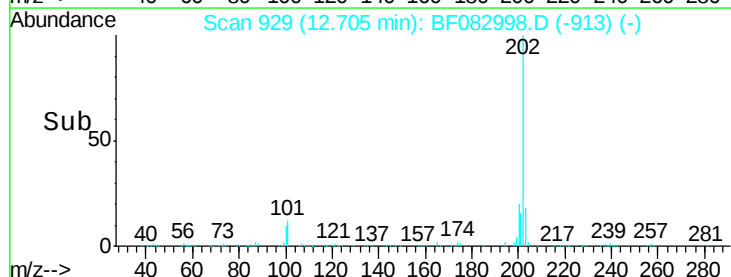
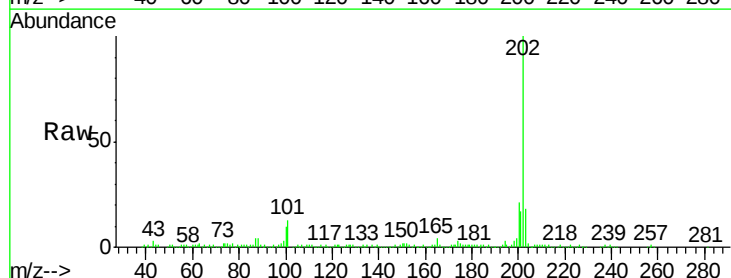
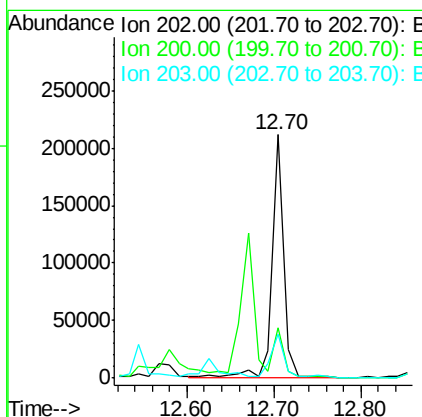
RT: 12.70 min Scan# 929

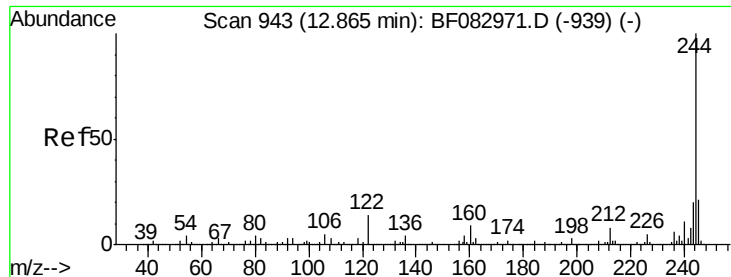
Delta R.T. -0.11 min

Lab File: BF082998.D

Acq: 18 Nov 2015 6:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.8	18.7	28.1
203	18.2	14.8	22.2





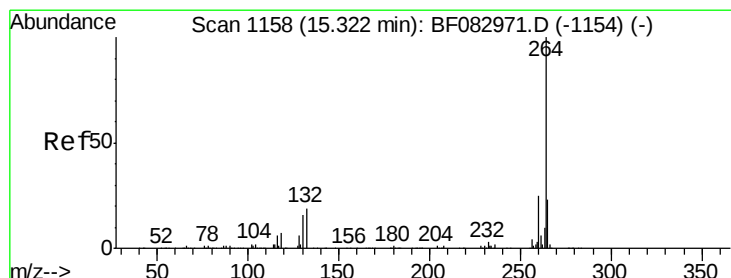
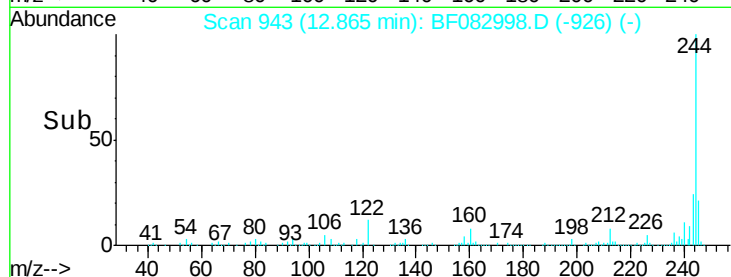
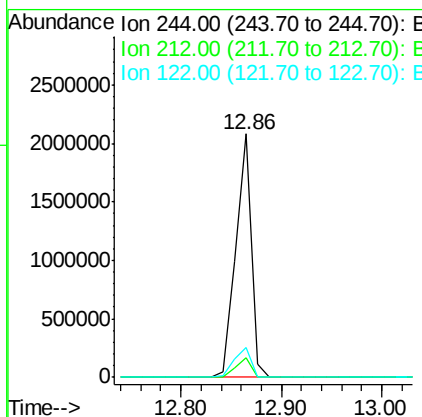
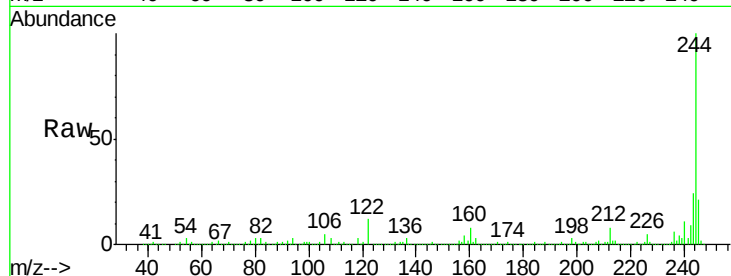
#78
 Terphenyl-d14
 Concen: 72.34 ng
 RT: 12.86 min Scan# 943
 Delta R.T. -0.10 min
 Lab File: BF082998.D
 Acq: 18 Nov 2015 6:54

Instrument :
 BNA_F
 ClientSampleId :
 MANAHAWKEN 112

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	7.6	11.4
122	12.4	11.3	16.9

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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.30 min Scan# 1156
 Delta R.T. -0.16 min
 Lab File: BF082998.D
 Acq: 18 Nov 2015 6:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.8	29.6
265	20.9	17.4	26.0

