

Data Path : Z:\HPCHEM1\BNA F\Data\BF123015\
 Data File : BF084174.D
 Acq On : 31 Dec 2015 4:43
 Operator : UM/SJ
 Sample : G4978-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

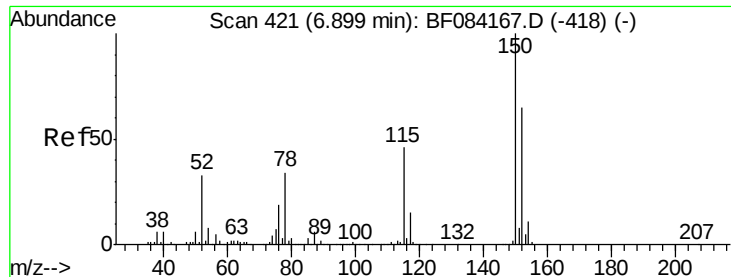
Quant Time: Dec 31 10:05:48 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 31 04:29:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	293167	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	1302200	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	541022	20.00	ng	-0.01
63) Phenanthrene-d10	11.42	188	983547	20.00	ng	0.00
75) Chrysene-d12	14.07	240	672811	20.00	ng	0.00
86) Perylene-d12	15.51	264	540373	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	2219270	121.40	ng	0.01
7) Phenol-d6	6.53	99	2476496	104.65	ng	0.01
23) Nitrobenzene-d5	7.47	82	2035431	92.36	ng	0.00
41) 2,4,6-Tribromophenol	10.74	330	824815	152.74	ng	0.01
44) 2-Fluorobiphenyl	9.26	172	2945371	96.38	ng	0.00
78) Terphenyl-d14	13.01	244	1586801	55.55	ng	0.00

Target Compounds						Qvalue
10) Phenol	6.54	94	98715	3.52	ng	81
14) 1,2-Dichlorobenzene	7.06	146	678	Below	Cal	# 1
15) Benzyl Alcohol	7.06	79	60681	3.07	ng	# 67
19) n-Nitroso-di-n-propylamine	7.33	70	96300	6.18	ng	# 77
20) 3+4-Methylphenols	7.32	107	47315	2.26	ng	# 72
24) Nitrobenzene	7.46	77	92462	4.07	ng	# 56
26) 2-Nitrophenol	7.74	139	867	Below	Cal	# 1
27) 2,4-Dimethylphenol	8.05	122	1618901	76.81	ng	# 3
31) Naphthalene	8.21	128	887682	14.92	ng	96
32) Benzoic acid	8.05	122	1637978	99.04	ng	97
33) 4-Chloroaniline	8.21	127	118220	4.35	ng	# 36
37) 2-Methylnaphthalene	8.90	142	165303	3.92	ng	99
49) Dimethylphthalate	9.66	163	196673	5.06	ng	98
50) 2,6-Dinitrotoluene	9.71	165	3098	2.31	ng	# 1
52) 3-Nitroaniline	9.87	138	339239	34.96	ng	# 2
56) 2,4-Dinitrotoluene	10.20	165	15581	2.65	ng	# 67
59) Diethylphthalate	10.36	149	370854	6.86	ng	95
60) 4-Chlorophenyl-phenylether	10.50	204	1058	Below	Cal	# 1
65) n-Nitrosodiphenylamine	10.60	169	178263	5.72	ng	94
66) 4-Bromophenyl-phenylether	10.74	248	50404	4.78	ng	# 1
73) Di-n-butylphthalate	12.00	149	33993	Below	Cal	# 95
74) Fluoranthene	12.64	202	3850	Below	Cal	# 36

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

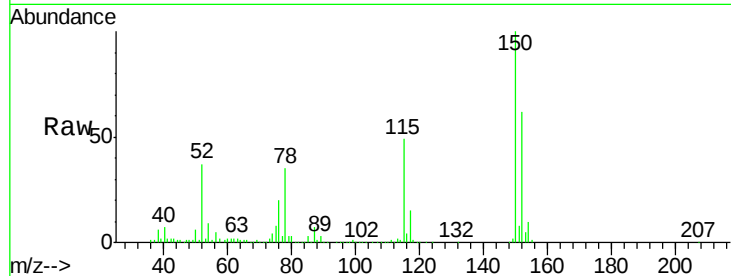


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.00 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.3	123.8	185.8
115	78.0	57.1	85.7

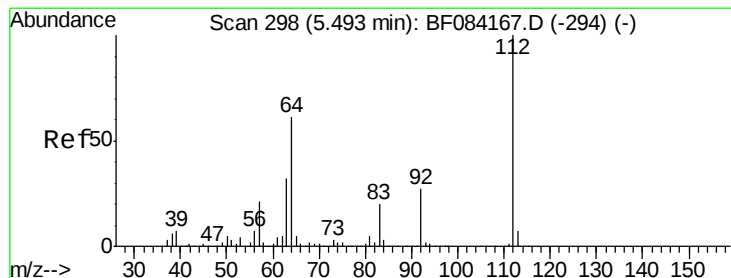
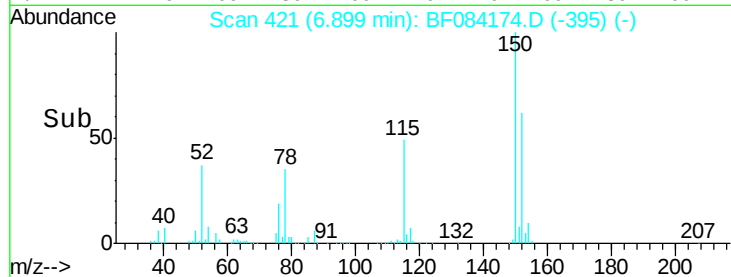
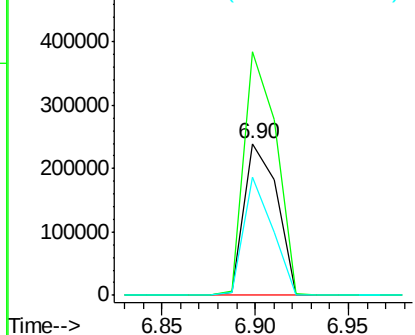


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

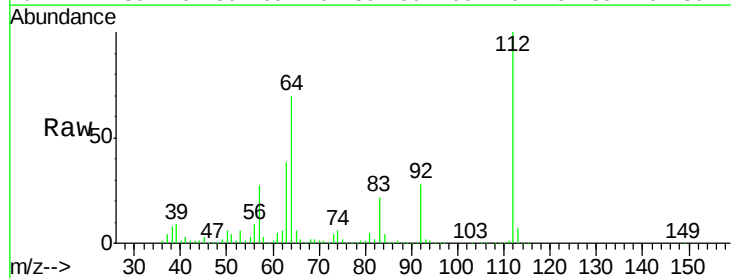
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 121.40 ng
RT: 5.50 min Scan# 299
Delta R.T. 0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.4	48.7	73.1
63	37.9	25.9	38.9

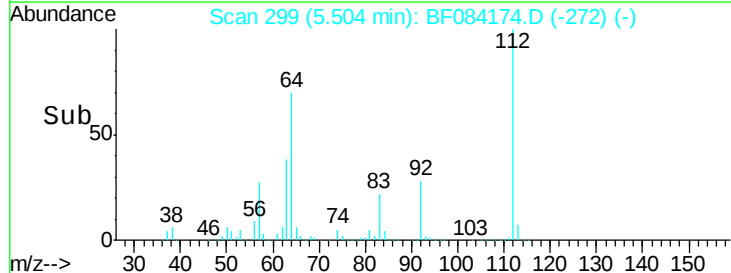
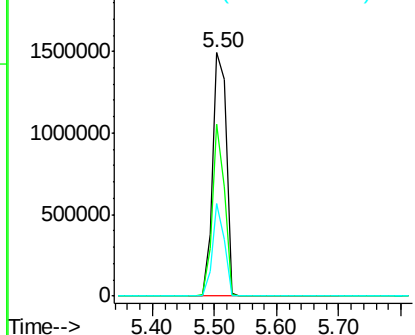


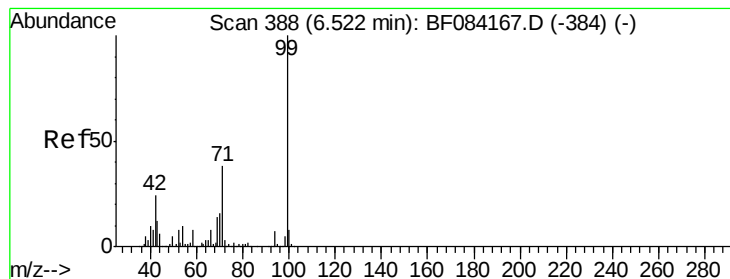
Abundance

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: 104.65 ng

RT: 6.53 min Scan# 389

Delta R.T. 0.01 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampled :

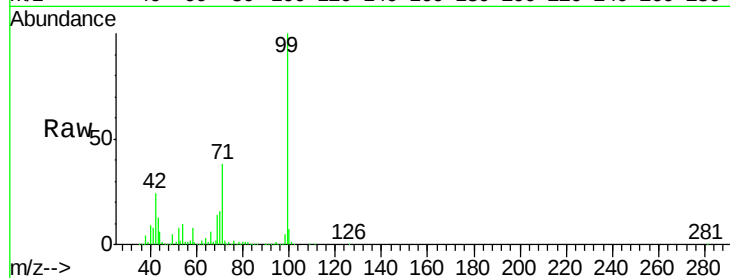
Tot Ion: 99 Resp: 2476496

Ion Ratio Lower Upper

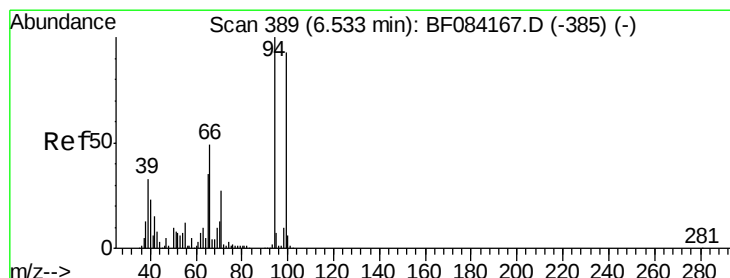
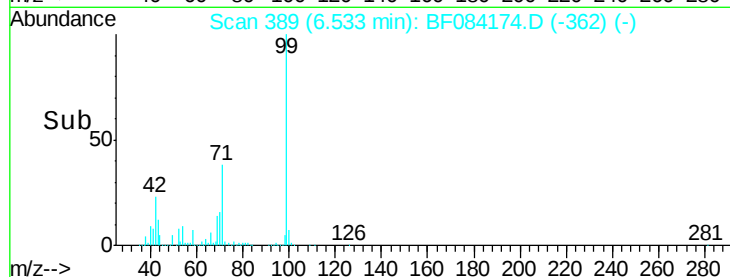
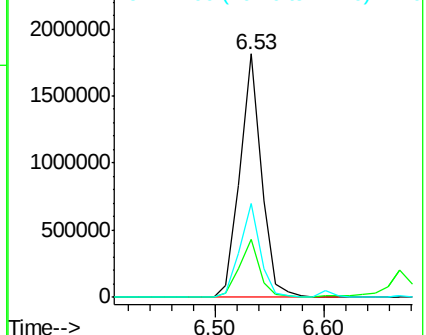
99 100

42 23.6 19.2 28.8

71 38.4 30.4 45.6



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



#10

Phenol

Concen: 3.52 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.01 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

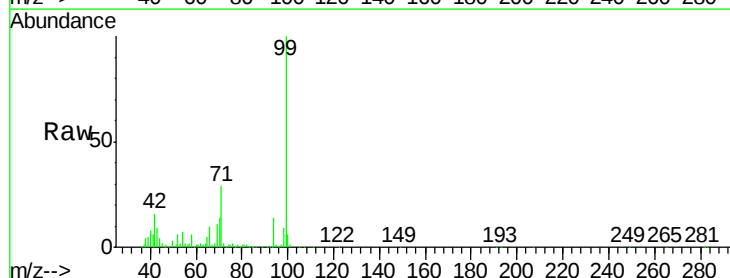
Tgt Ion: 94 Resp: 98715

Ion Ratio Lower Upper

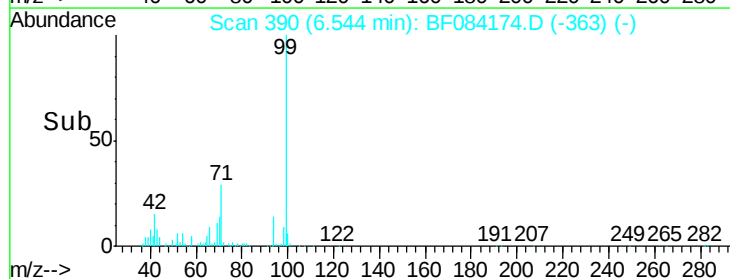
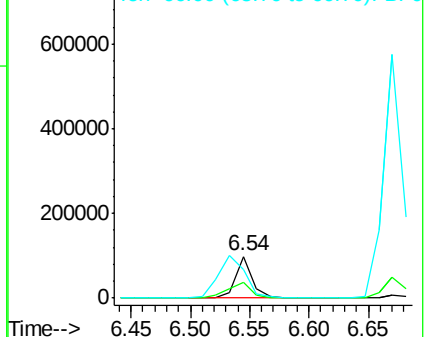
94 100

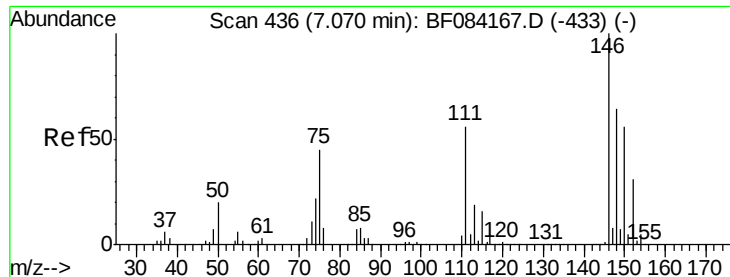
65 38.4 15.2 55.2

66 68.8 29.0 69.0



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#14

1,2-Dichlorobenzene

Concen: Below Cal

RT: 7.06 min Scan# 435

Delta R.T. -0.01 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

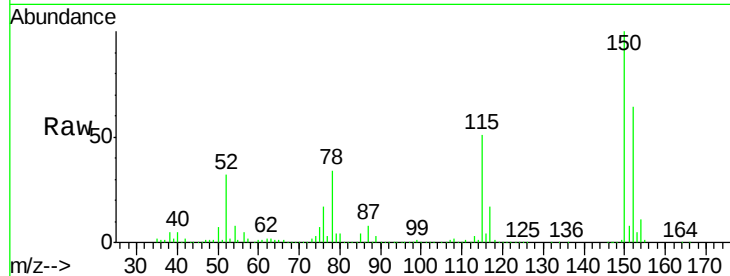
Tot Ion:146 Resp: 678

Ion Ratio Lower Upper

146 100

148 367.4 51.3 76.9#

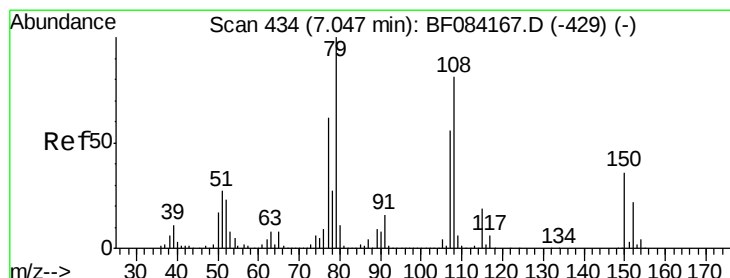
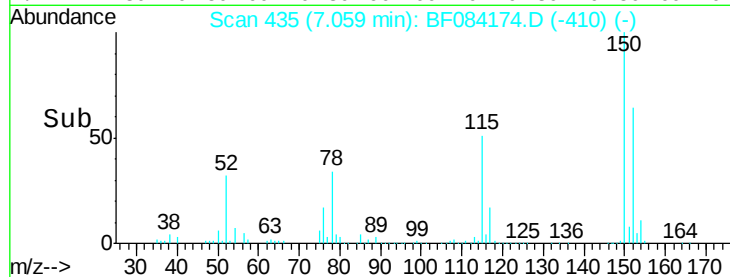
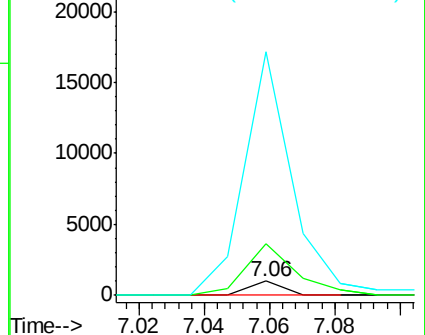
111 1736.8 45.0 67.4#



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15

Benzyl Alcohol

Concen: 3.07 ng

RT: 7.06 min Scan# 435

Delta R.T. 0.01 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

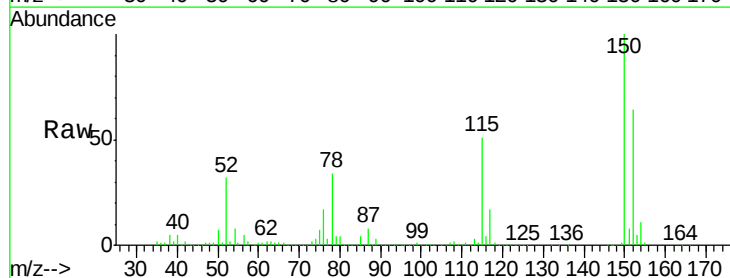
Tgt Ion: 79 Resp: 60681

Ion Ratio Lower Upper

79 100

108 47.6 65.1 97.7#

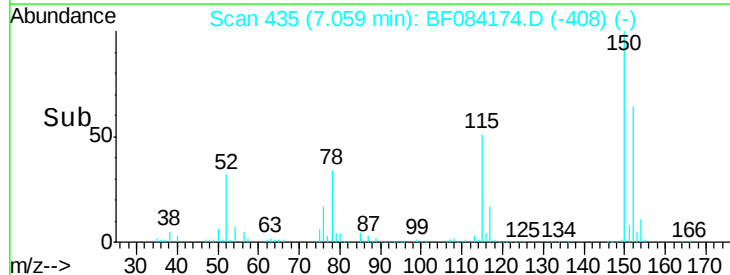
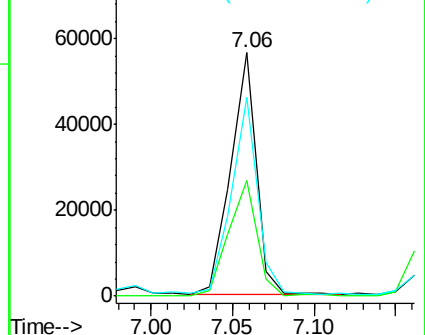
77 81.9 49.8 74.8#

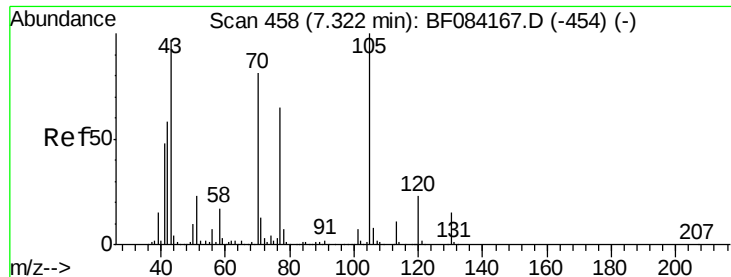


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

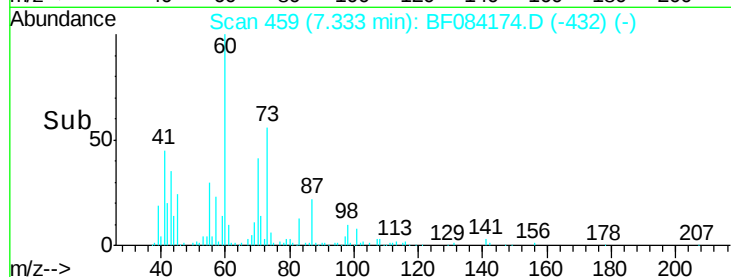
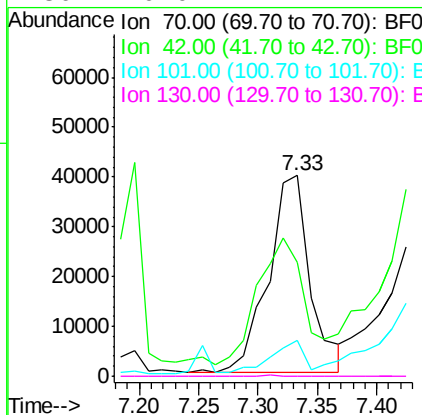
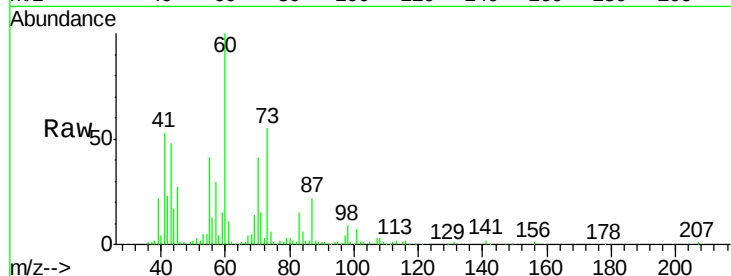




#19
n-Nitroso-di-n-propylamine
Concen: 6.18 ng
RT: 7.33 min Scan# 459
Delta R.T. 0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

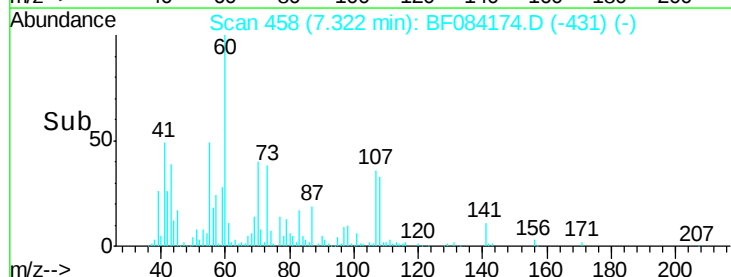
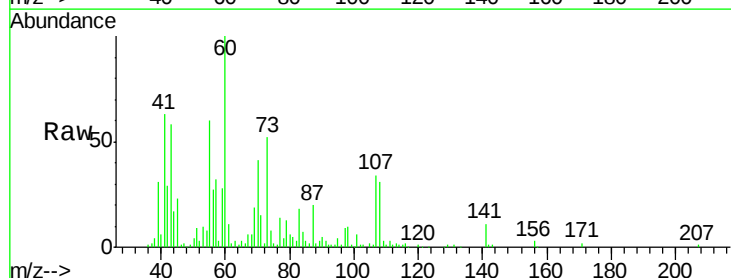
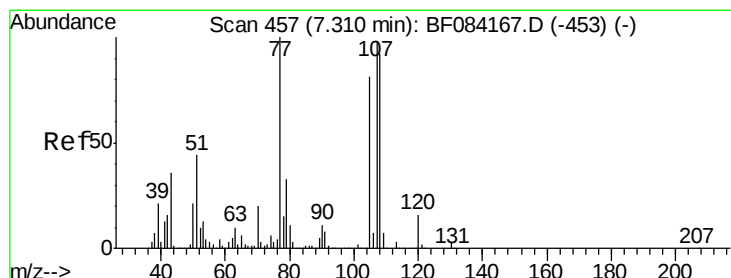
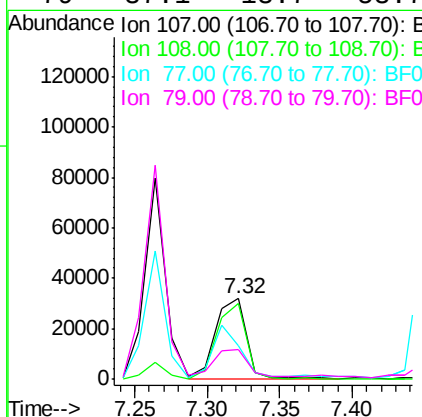
Instrument :
BNA_F
ClientSampled :

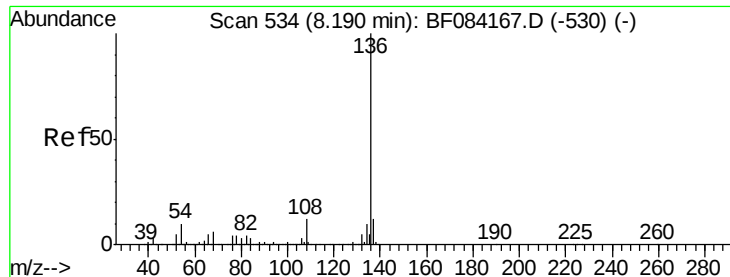
Tot Ion: 70 Resp: 96300
Ion Ratio Lower Upper
70 100
42 57.1 57.4 86.0#
101 17.9 7.3 10.9#
130 0.0 14.7 22.1#



#20
3+4-Methylphenols
Concen: 2.26 ng
RT: 7.32 min Scan# 458
Delta R.T. 0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:107 Resp: 47315
Ion Ratio Lower Upper
107 100
108 93.1 74.5 114.5
77 41.6 82.4 122.4#
79 37.1 13.7 53.7





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 1302200

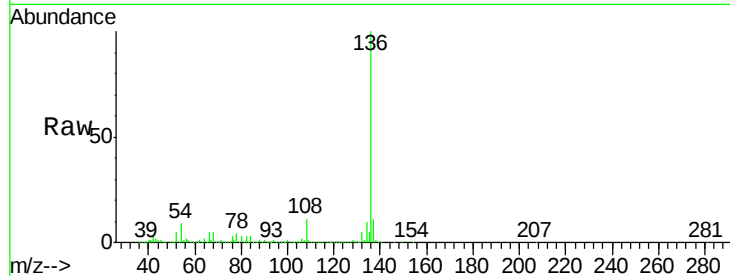
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 8.7 7.6 11.4

68 5.1 4.6 6.8

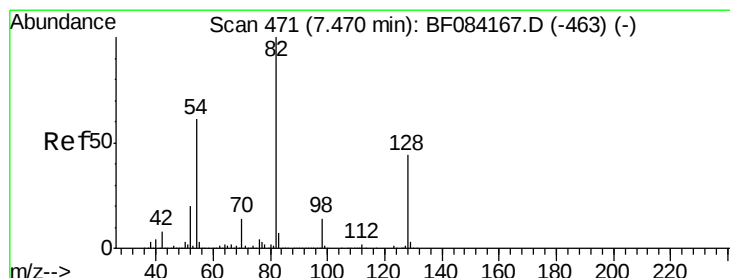
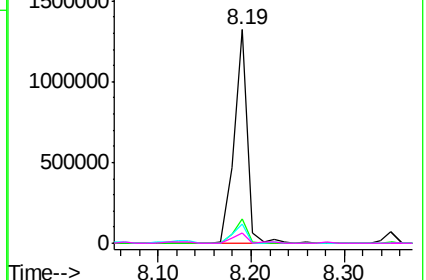
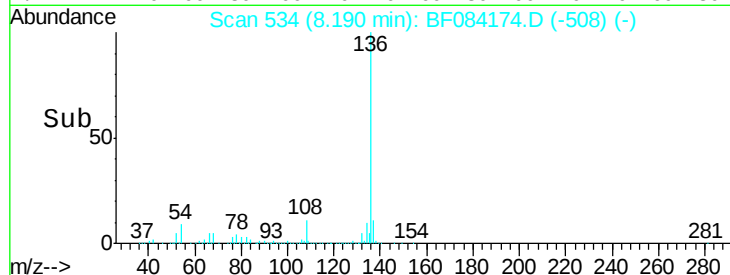


Abundance Ion 136.00 (135.70 to 136.70): E

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: 92.36 ng

RT: 7.47 min Scan# 471

Delta R.T. -0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

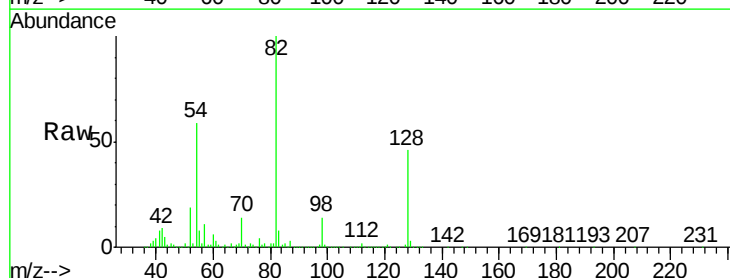
Tgt Ion: 82 Resp: 2035431

Ion Ratio Lower Upper

82 100

128 46.1 35.0 52.4

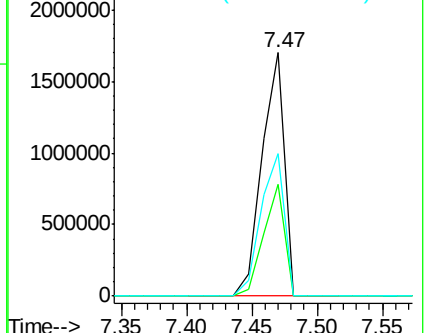
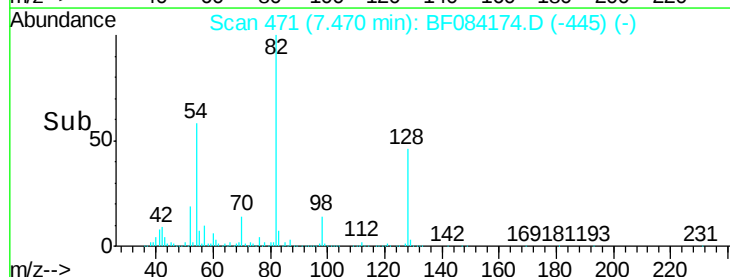
54 58.5 48.5 72.7

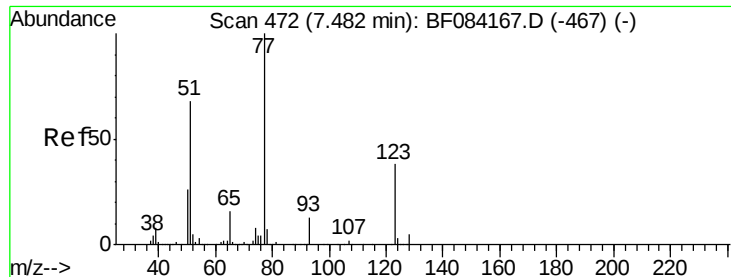


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 4.07 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

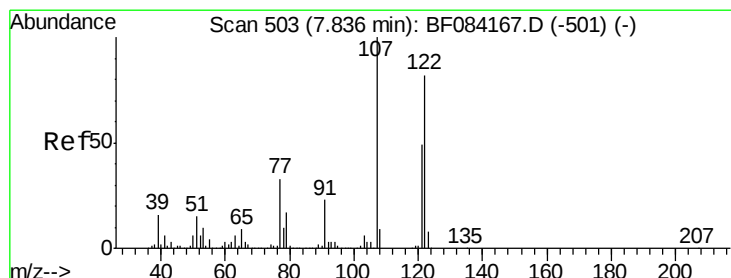
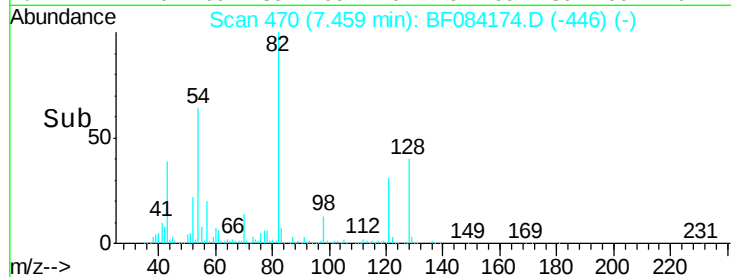
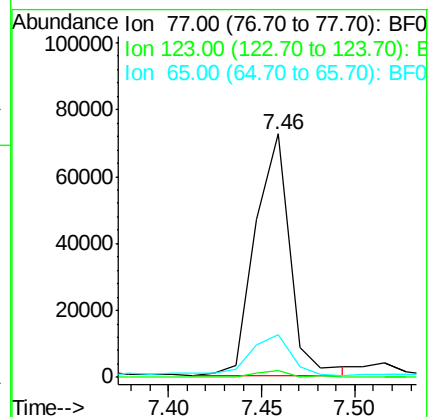
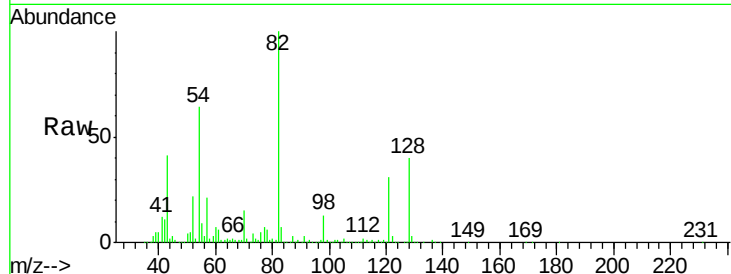
Tot Ion: 77 Resp: 92462

Ion Ratio Lower Upper

77 100

123 2.8 31.3 46.9#

65 17.6 12.6 19.0



#27

2,4-Dimethylphenol

Concen: 76.81 ng

RT: 8.05 min Scan# 522

Delta R.T. 0.22 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

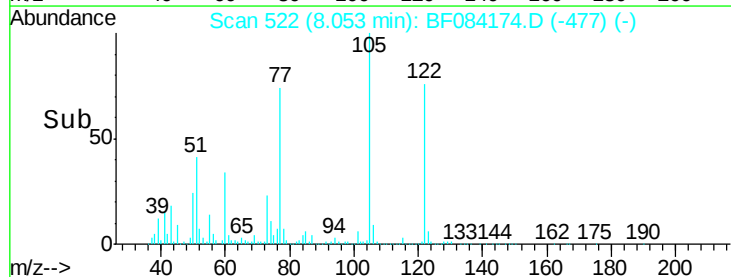
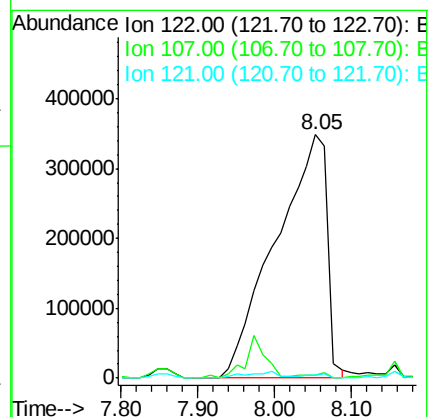
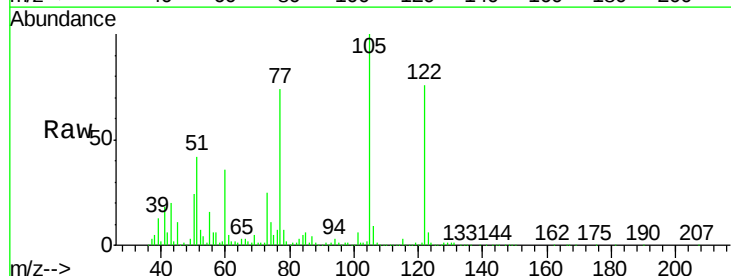
Tgt Ion: 122 Resp: 1618901

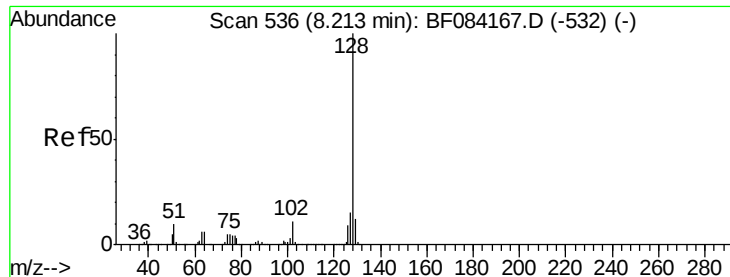
Ion Ratio Lower Upper

122 100

107 1.3 96.8 145.2#

121 1.4 47.0 70.6#

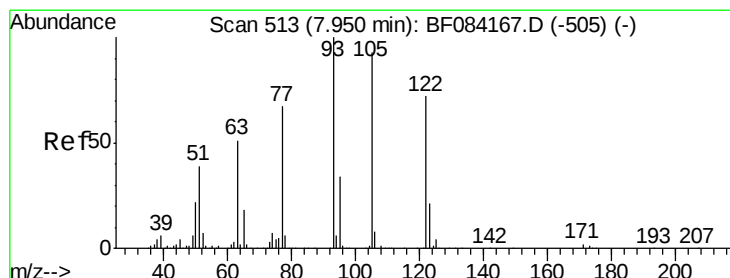
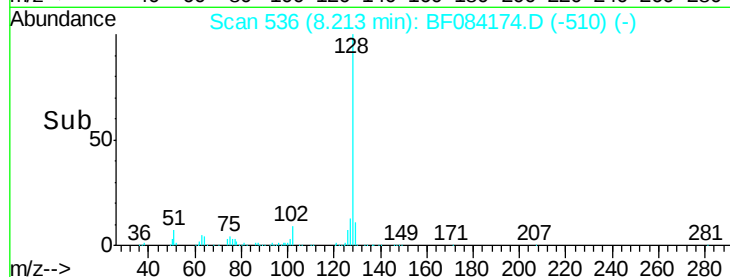
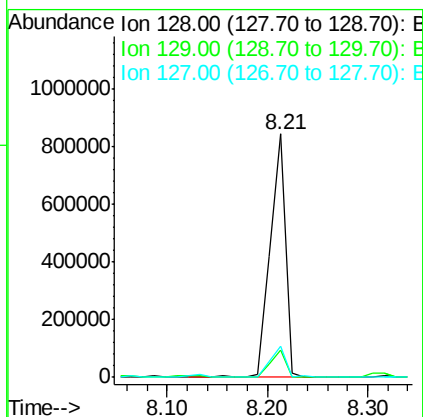
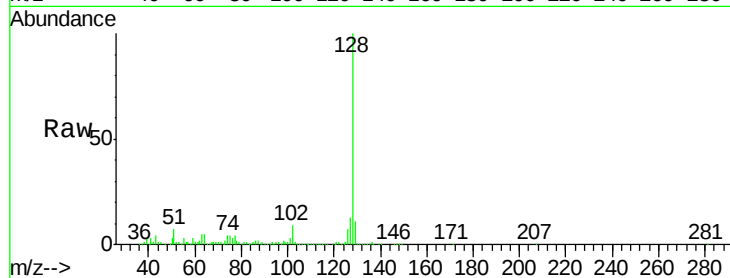




#31
Naphthalene
Concen: 14.92 ng
RT: 8.21 min Scan# 536
Delta R.T. -0.00 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

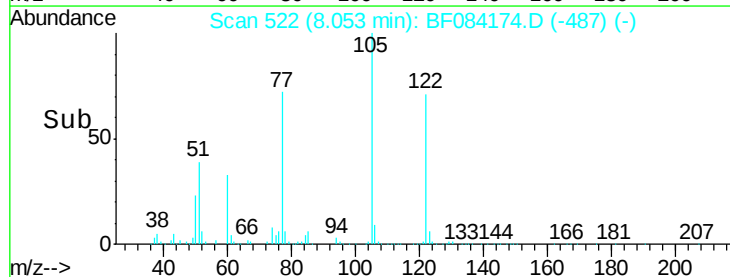
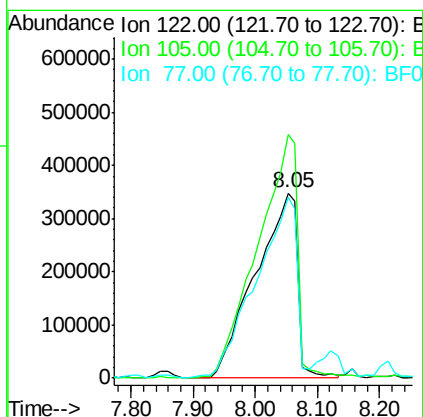
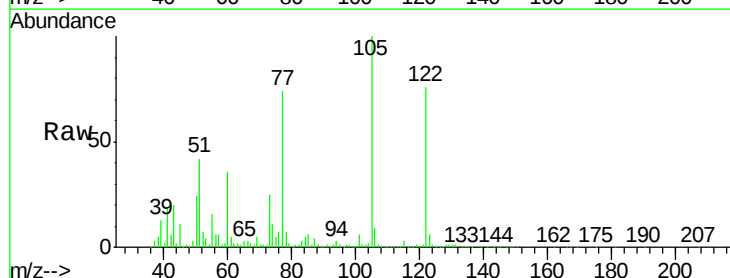
Instrument :
BNA_F
ClientSampled :

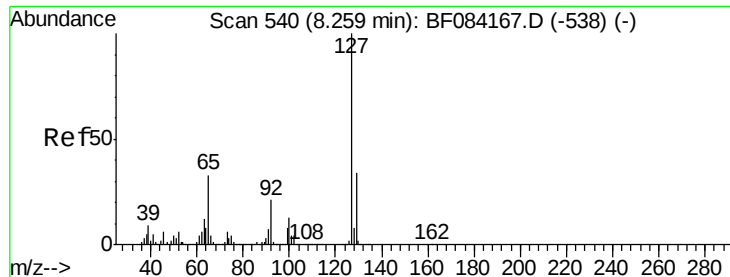
Tot Ion:128 Resp: 887682
Ion Ratio Lower Upper
128 100
129 11.1 10.0 15.0
127 12.9 12.0 18.0



#32
Benzoic acid
Concen: 99.04 ng
RT: 8.05 min Scan# 522
Delta R.T. 0.10 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:122 Resp: 1637978
Ion Ratio Lower Upper
122 100
105 131.4 108.6 148.6
77 97.3 74.1 114.1

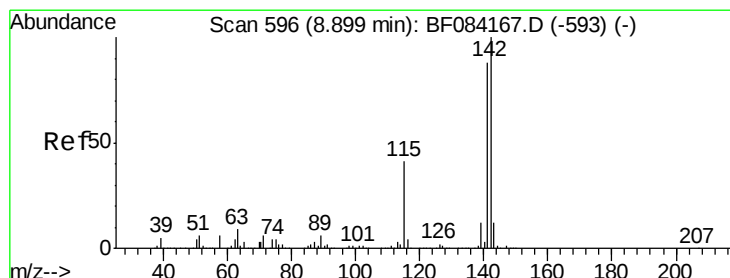
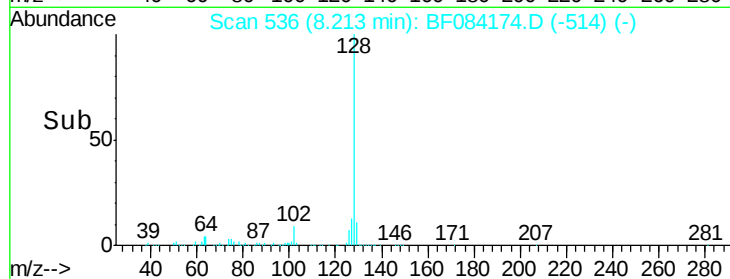
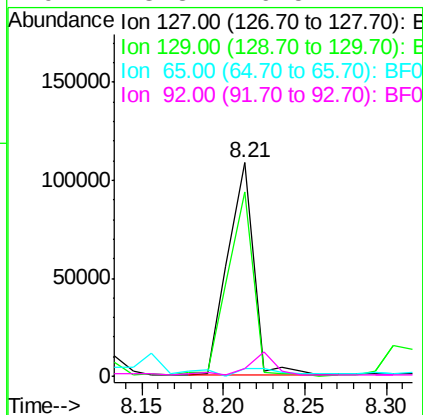
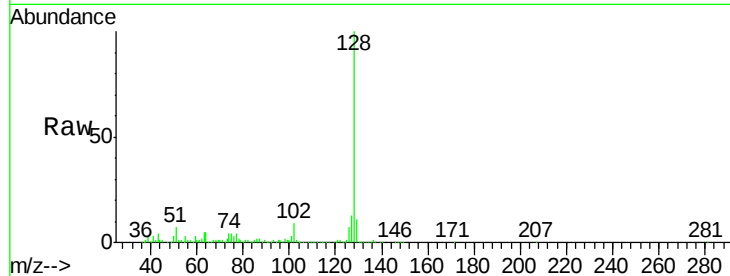




#33
4-Chloroaniline
Concen: 4.35 ng
RT: 8.21 min Scan# 536
Delta R.T. -0.05 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

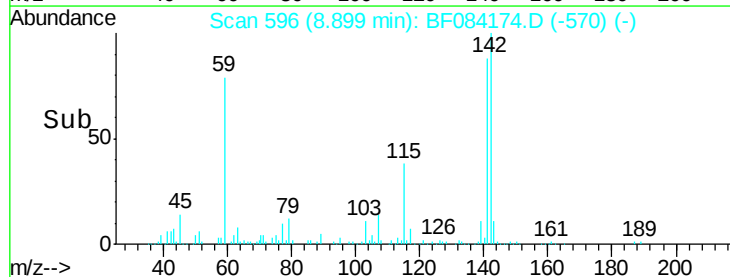
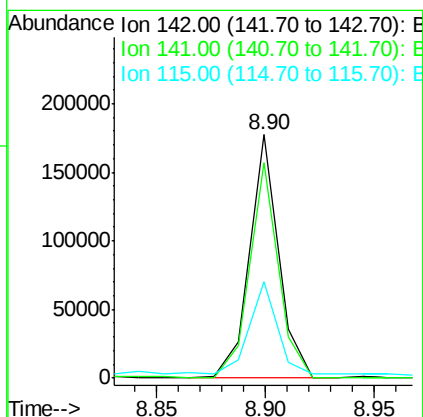
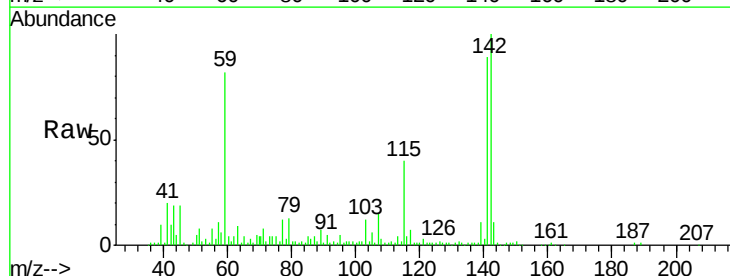
Instrument :
BNA_F
ClientSampleId :

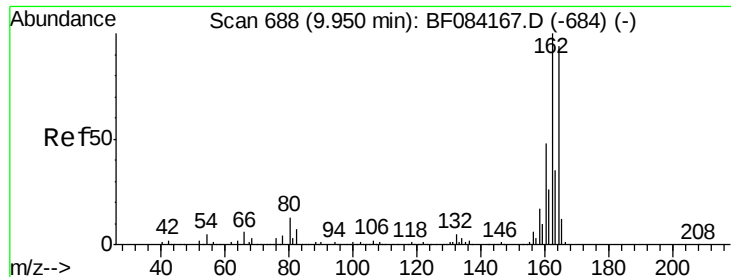
Tot Ion:127	Resp:	118220
Ion Ratio	Lower	Upper
127	100	
129	86.1	27.0 40.6#
65	3.5	26.6 40.0#
92	3.3	16.5 24.7#



#37
2-Methylnaphthalene
Concen: 3.92 ng
RT: 8.90 min Scan# 596
Delta R.T. 0.00 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:142	Resp:	165303
Ion Ratio	Lower	Upper
142	100	
141	88.6	70.7 106.1
115	39.8	33.2 49.8

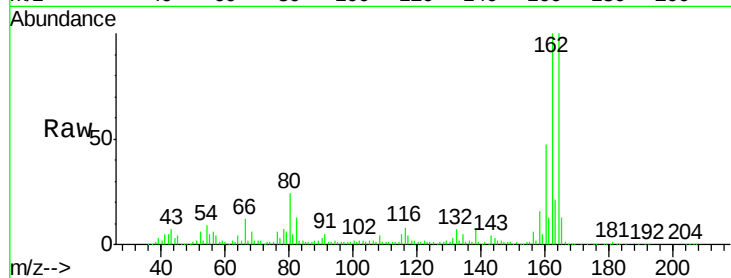




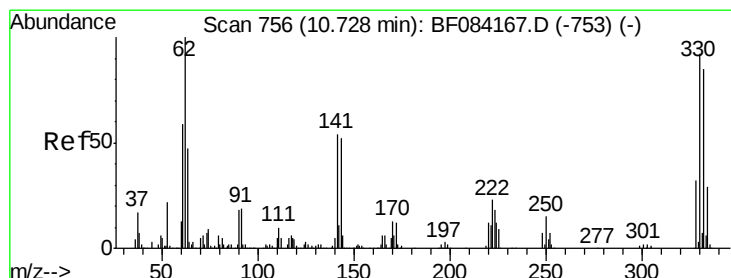
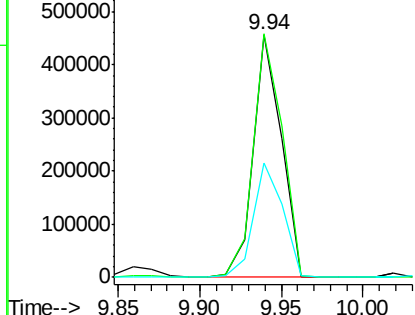
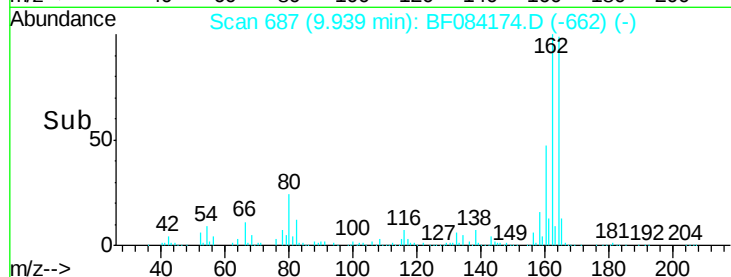
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.94 min Scan# 687
Delta R.T. -0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 541022
Ion Ratio Lower Upper
164 100
162 100.5 84.8 127.2
160 47.2 40.4 60.6

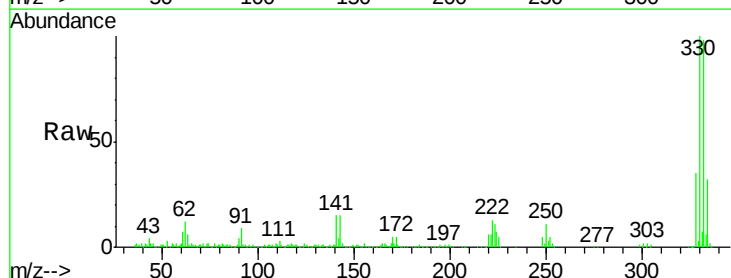


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

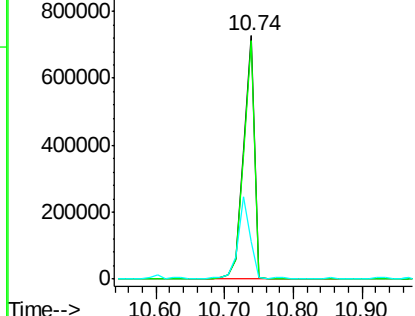
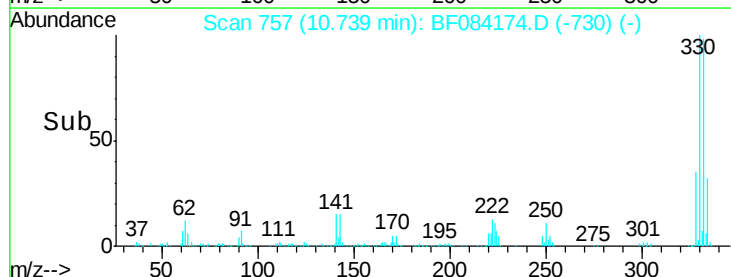


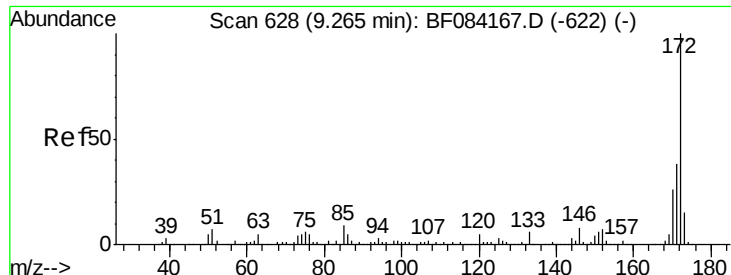
#41
2,4,6-Tribromophenol
Concen: 152.74 ng
RT: 10.74 min Scan# 757
Delta R.T. 0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:330 Resp: 824815
Ion Ratio Lower Upper
330 100
332 97.0 76.2 114.2
141 36.1 31.3 46.9



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

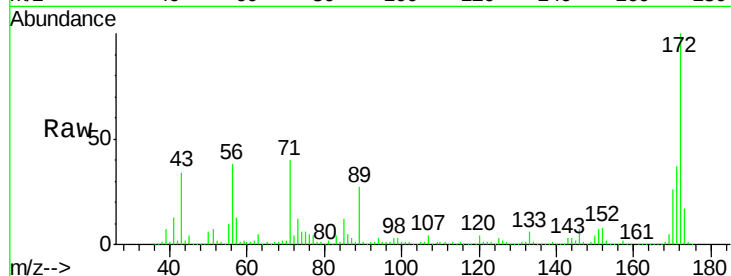




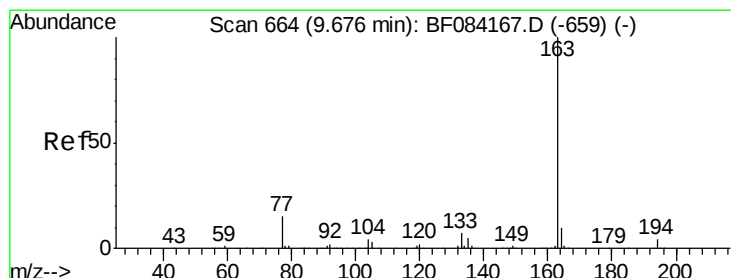
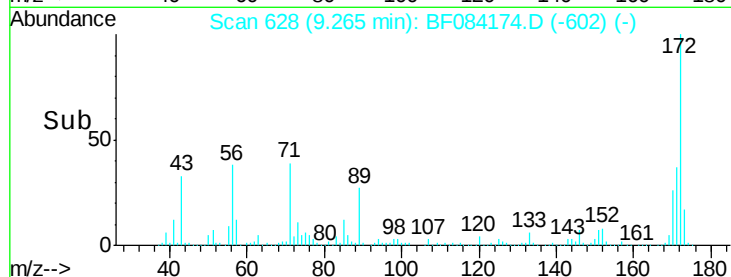
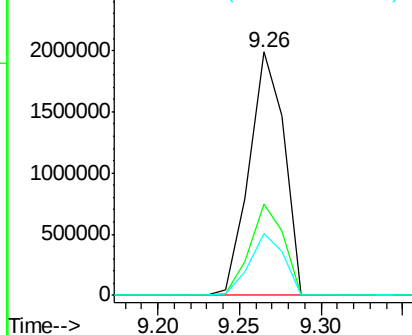
#44
2-Fluorobiphenyl
Concen: 96.38 ng
RT: 9.26 min Scan# 628
Delta R.T. 0.00 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 2945371
Ion Ratio Lower Upper
172 100
171 37.4 30.6 46.0
170 25.5 20.6 30.8

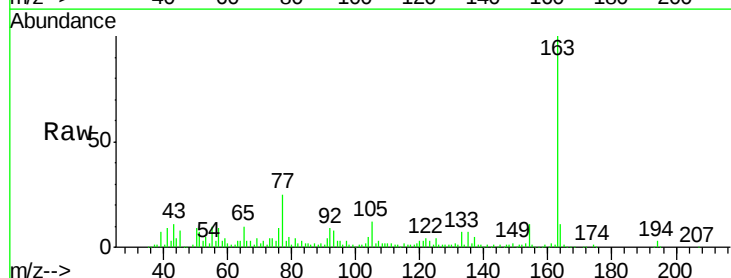


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

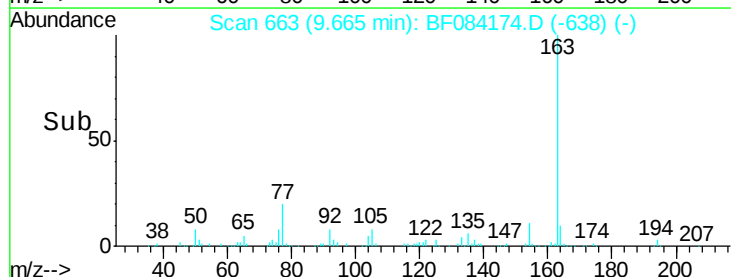
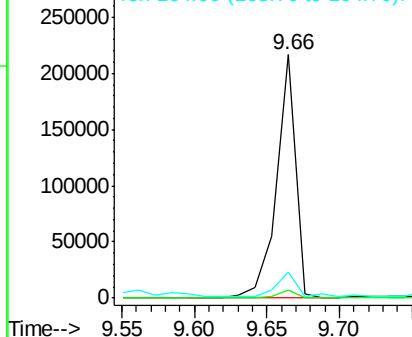


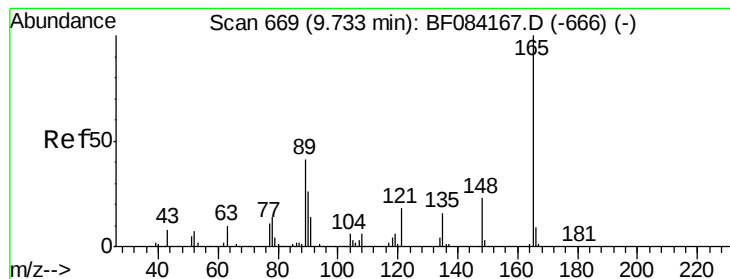
#49
Dimethylphthalate
Concen: 5.06 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:163 Resp: 196673
Ion Ratio Lower Upper
163 100
194 3.3 3.0 4.6
164 10.9 8.2 12.4



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





#50

2,6-Dinitrotoluene

Concen: 2.31 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.02 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

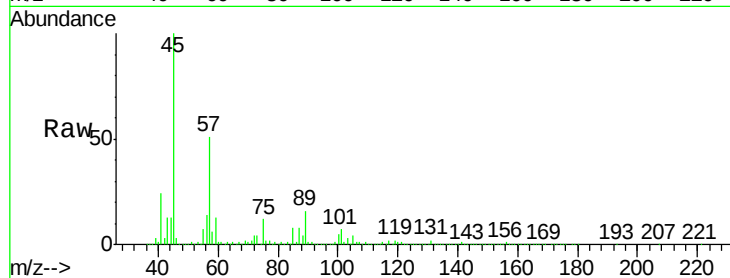
Tot Ion:165 Resp: 3098

Ion Ratio Lower Upper

165 100

63 261.5 28.8 43.2#

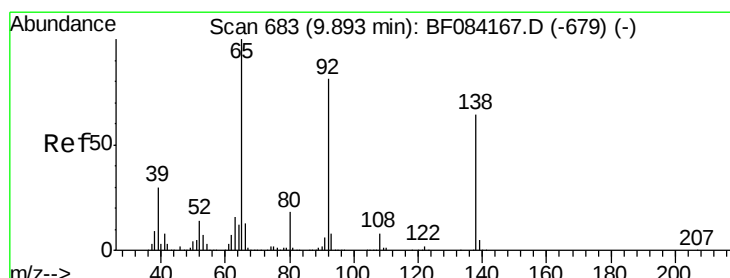
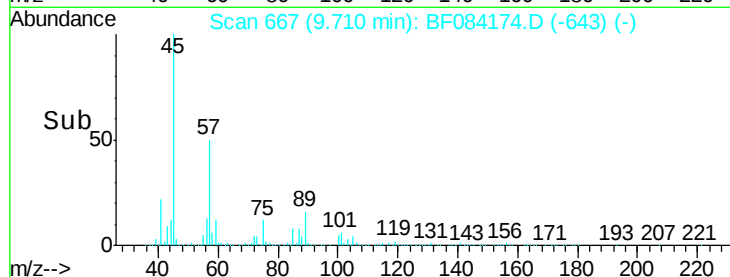
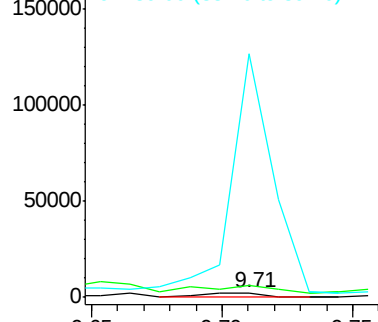
89 5135.8 32.7 49.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#52

3-Nitroaniline

Concen: 34.96 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

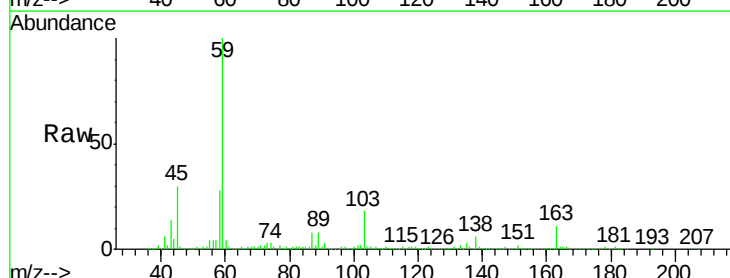
Tgt Ion:138 Resp: 339239

Ion Ratio Lower Upper

138 100

108 6.5 10.2 15.4#

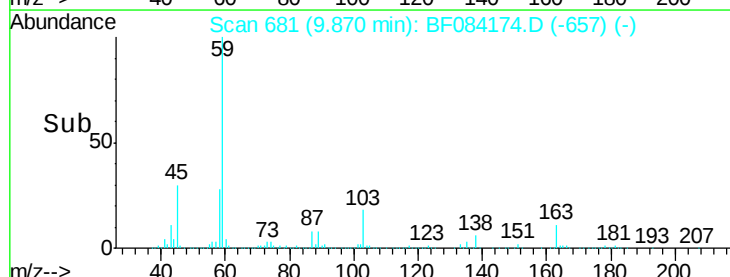
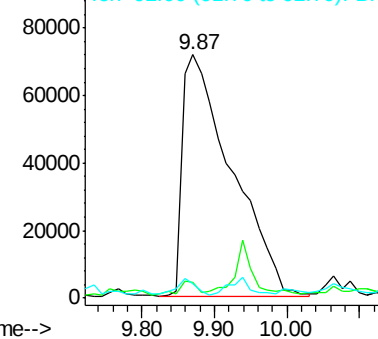
92 5.7 101.9 152.9#

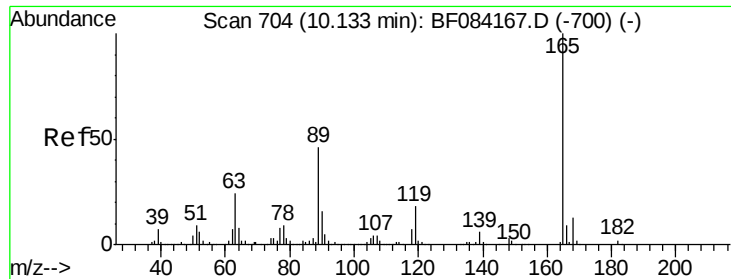


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

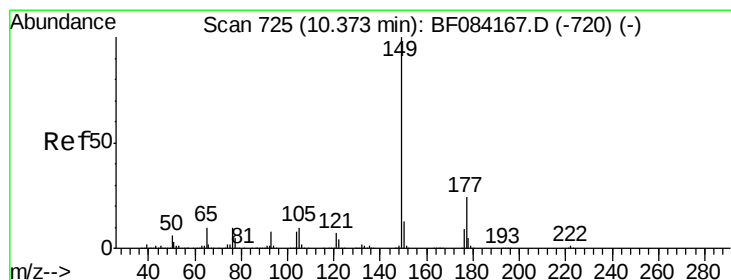
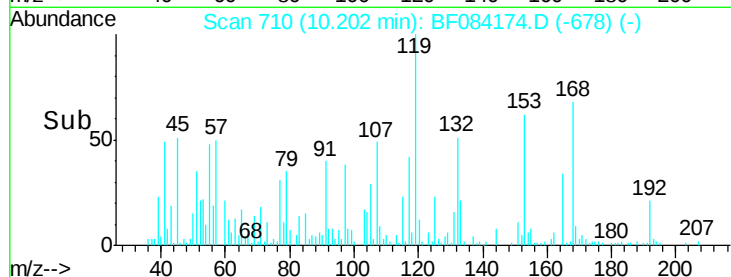
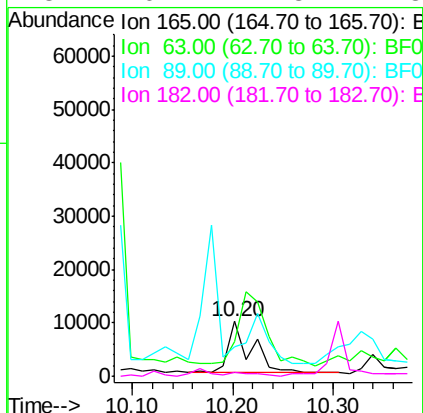
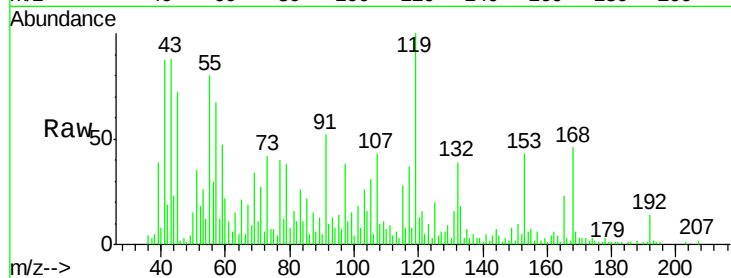




#56
2,4-Dinitrotoluene
Concen: 2.65 ng
RT: 10.20 min Scan# 710
Delta R.T. 0.07 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

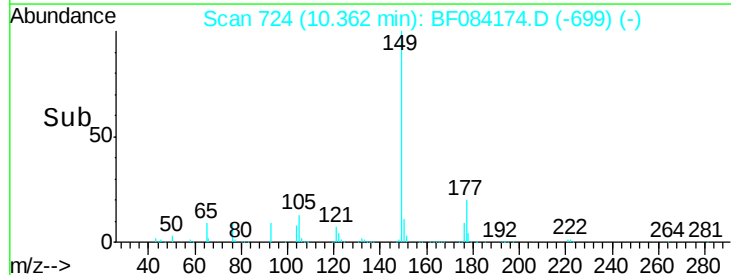
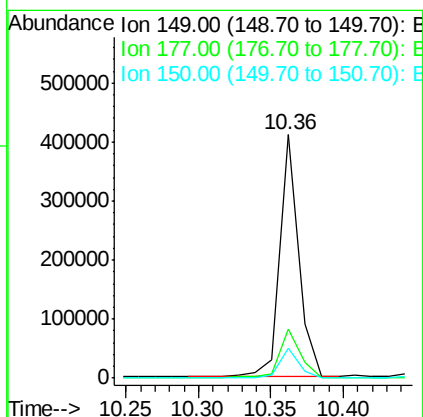
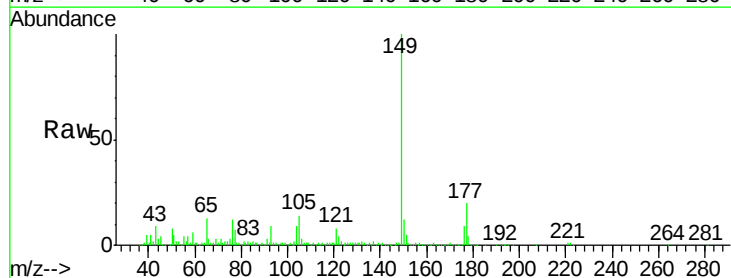
Instrument :
BNA_F
ClientSampleId :

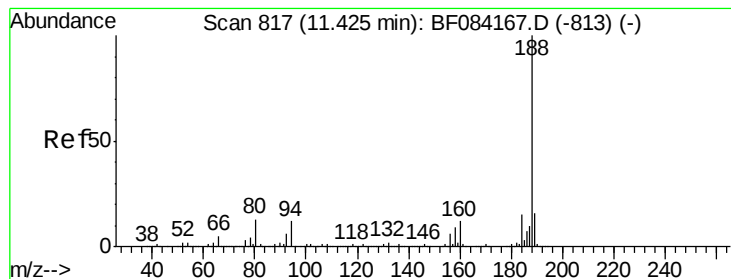
Tot Ion	Ion	Ratio	Lower	Upper
165	100			
63	63.4	19.4	29.2#	
89	53.3	37.0	55.6	
182	6.1	1.8	2.8#	



#59
Diethylphthalate
Concen: 6.86 ng
RT: 10.36 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion	Ion	Ratio	Lower	Upper
149	100			
177	20.3	19.1	28.7	
150	12.3	10.6	15.8	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

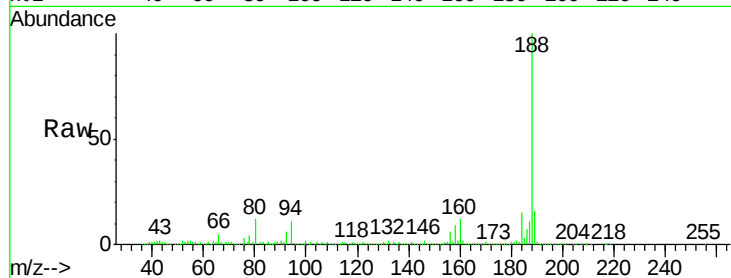
Tot Ion:188 Resp: 983547

Ion Ratio Lower Upper

188 100

94 10.8 9.2 13.8

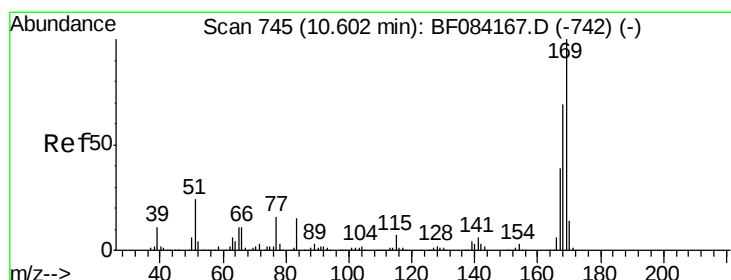
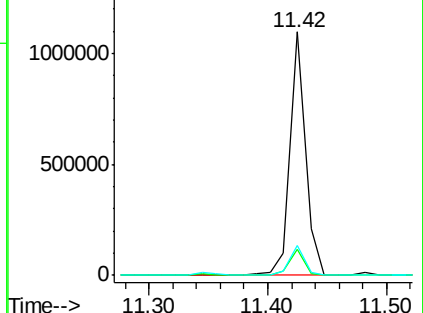
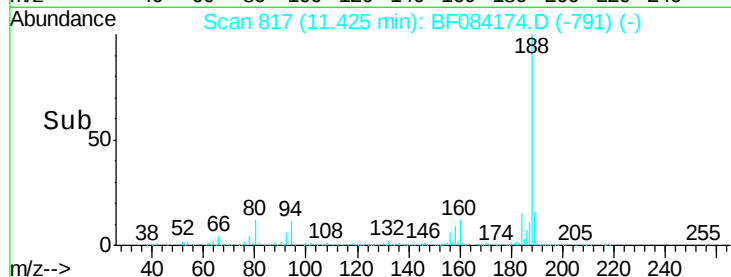
80 12.0 10.1 15.1



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



#65

n-Nitrosodiphenylamine

Concen: 5.72 ng

RT: 10.60 min Scan# 745

Delta R.T. 0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

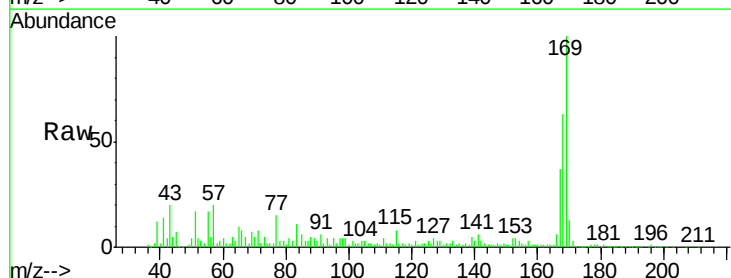
Tgt Ion:169 Resp: 178263

Ion Ratio Lower Upper

169 100

168 63.3 55.2 82.8

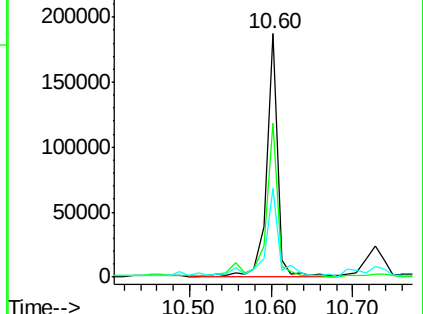
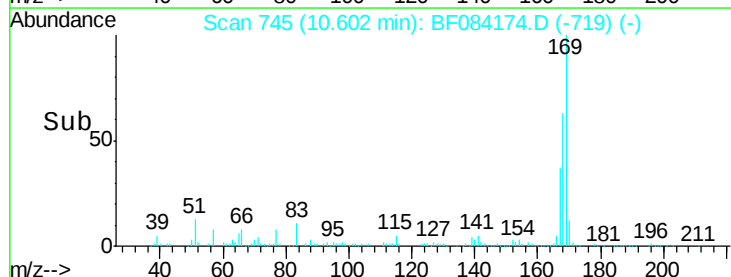
167 36.6 31.1 46.7

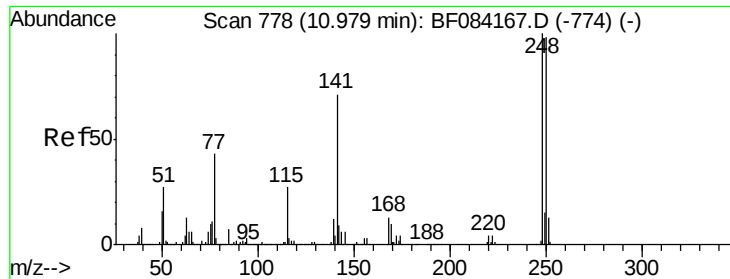


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

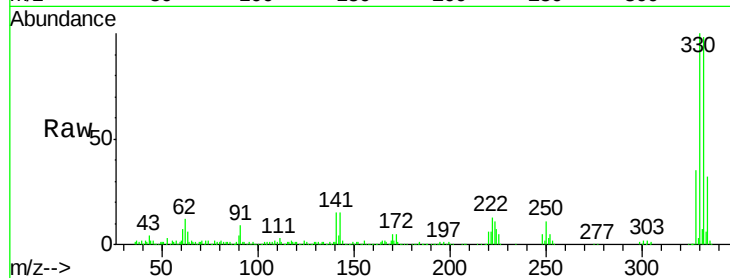




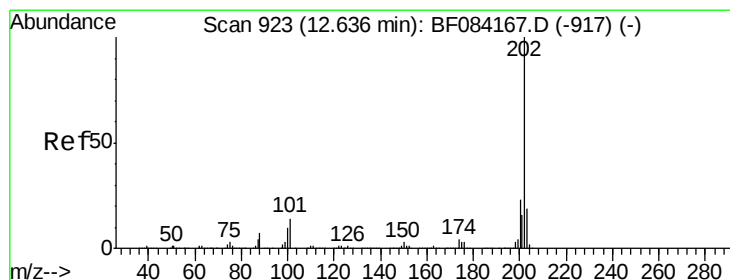
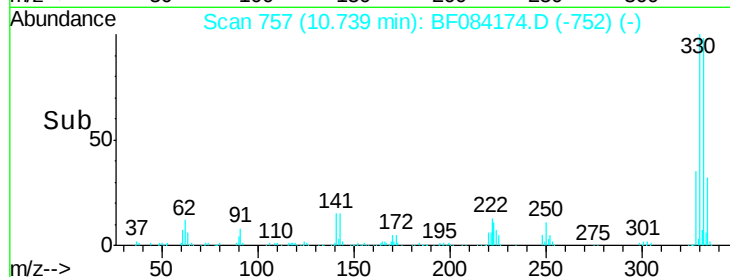
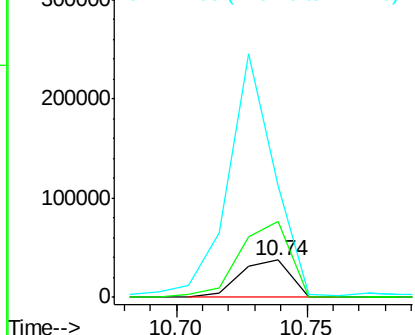
#66
4-Bromophenyl-phenylether
Concen: 4.78 ng
RT: 10.74 min Scan# 757
Delta R.T. -0.24 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 50404
Ion Ratio Lower Upper
248 100
250 206.9 78.7 118.1#
141 301.6 57.1 85.7#

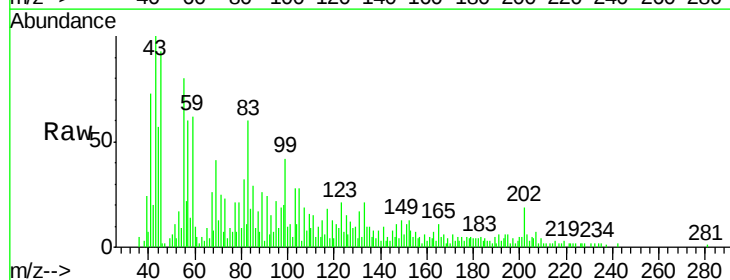


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

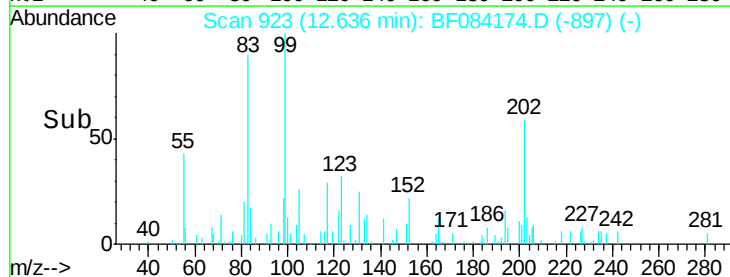
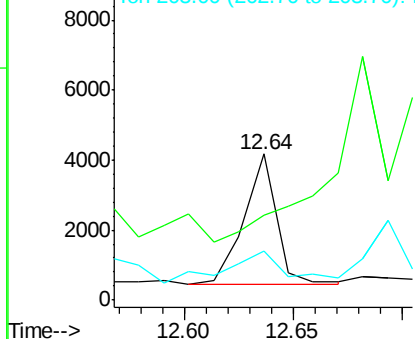


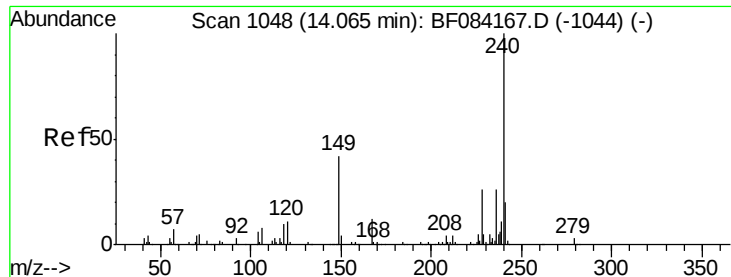
#74
Fluoranthene
Concen: Below Cal
RT: 12.64 min Scan# 923
Delta R.T. 0.00 min
Lab File: BF084174.D
Acq: 31 Dec 2015 4:43

Tgt Ion:202 Resp: 3850
Ion Ratio Lower Upper
202 100
101 58.4 0.0 34.0#
203 33.7 0.0 39.2



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.07 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

Instrument :

BNA_F

ClientSampleId :

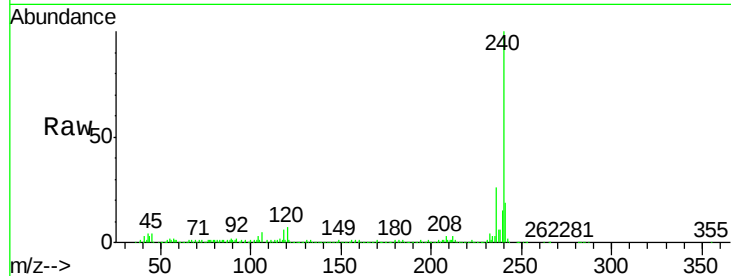
Tot Ion:240 Resp: 672811

Ion Ratio Lower Upper

240 100

120 6.9 8.8 13.2#

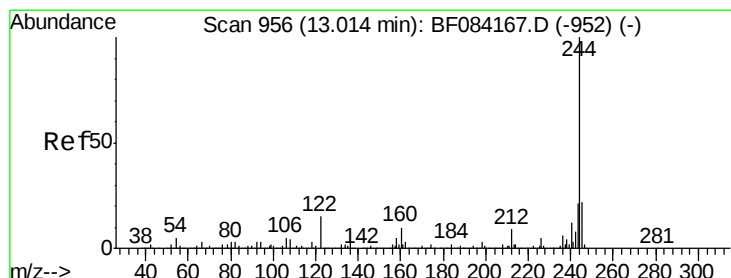
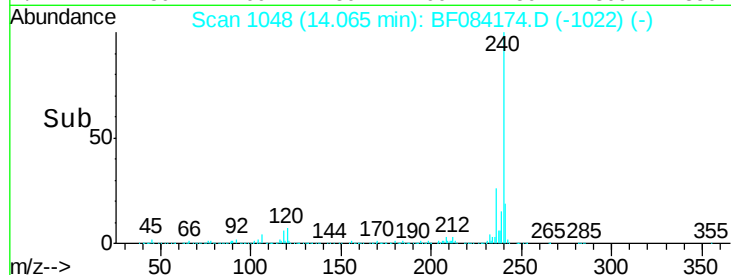
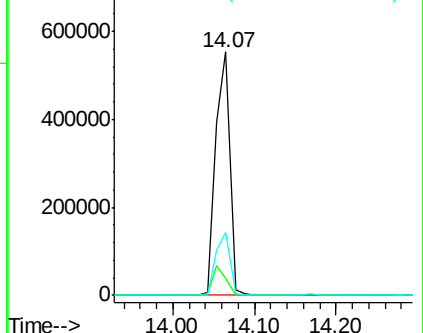
236 26.1 20.8 31.2



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



#78

Terphenyl-d14

Concen: 55.55 ng

RT: 13.01 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF084174.D

Acq: 31 Dec 2015 4:43

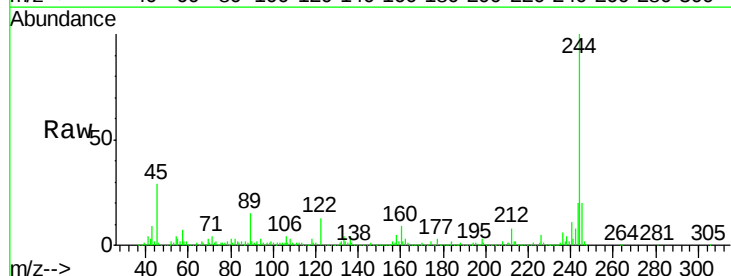
Tgt Ion:244 Resp: 1586801

Ion Ratio Lower Upper

244 100

212 8.1 7.0 10.4

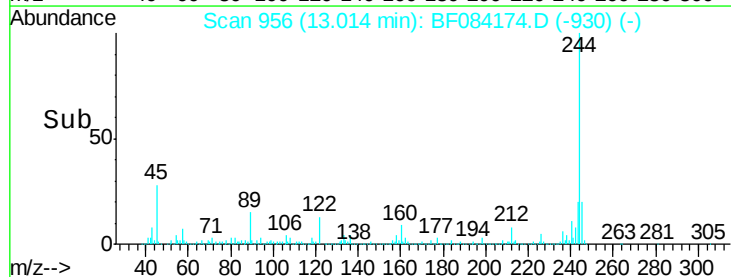
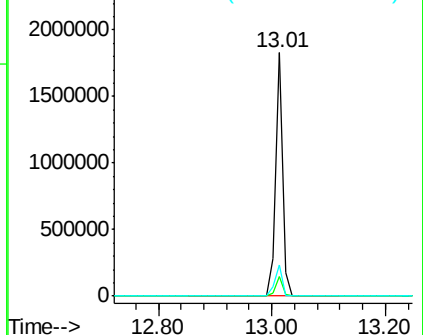
122 12.9 11.9 17.9

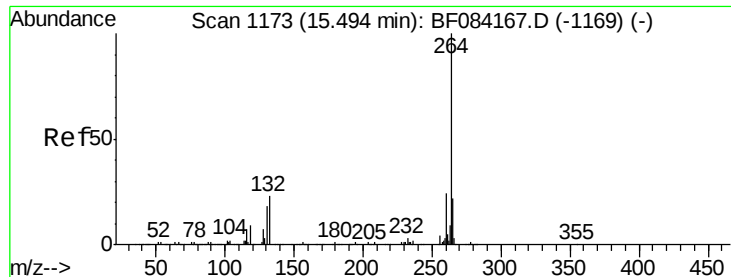


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

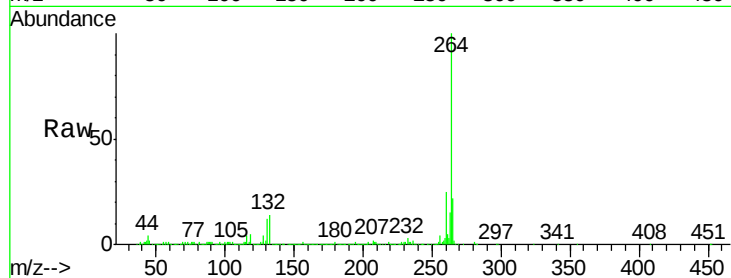




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 15.51 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: BF084174.D
 Acq: 31 Dec 2015 4:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	18.9	28.3
265	22.4	18.0	27.0



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

