

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
 Data File : BF083463.D
 Acq On : 3 Dec 2015 16:40
 Operator : UM/IZ
 Sample : G4585-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 03 17:23:49 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 03 17:02:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	174052	20.00	ng	-0.01
21) Naphthalene-d8	7.81	136	683114	20.00	ng	-0.01
38) Acenaphthene-d10	9.56	164	361694	20.00	ng	0.00
63) Phenanthrene-d10	11.09	188	637408	20.00	ng	0.00
75) Chrysene-d12	14.71	240	485390	20.00	ng	-0.01
86) Perylene-d12	16.77	264	384568	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1600057	137.95	ng	0.01
7) Phenol-d6	6.20	99	1965685	123.81	ng	0.00
23) Nitrobenzene-d5	7.10	82	1419689	91.36	ng	0.00
41) 2,4,6-Tribromophenol	10.35	330	416655	114.75	ng	-0.01
44) 2-Fluorobiphenyl	8.90	172	2041806	80.45	ng	0.00
78) Terphenyl-d14	13.19	244	1888562	92.79	ng	0.00

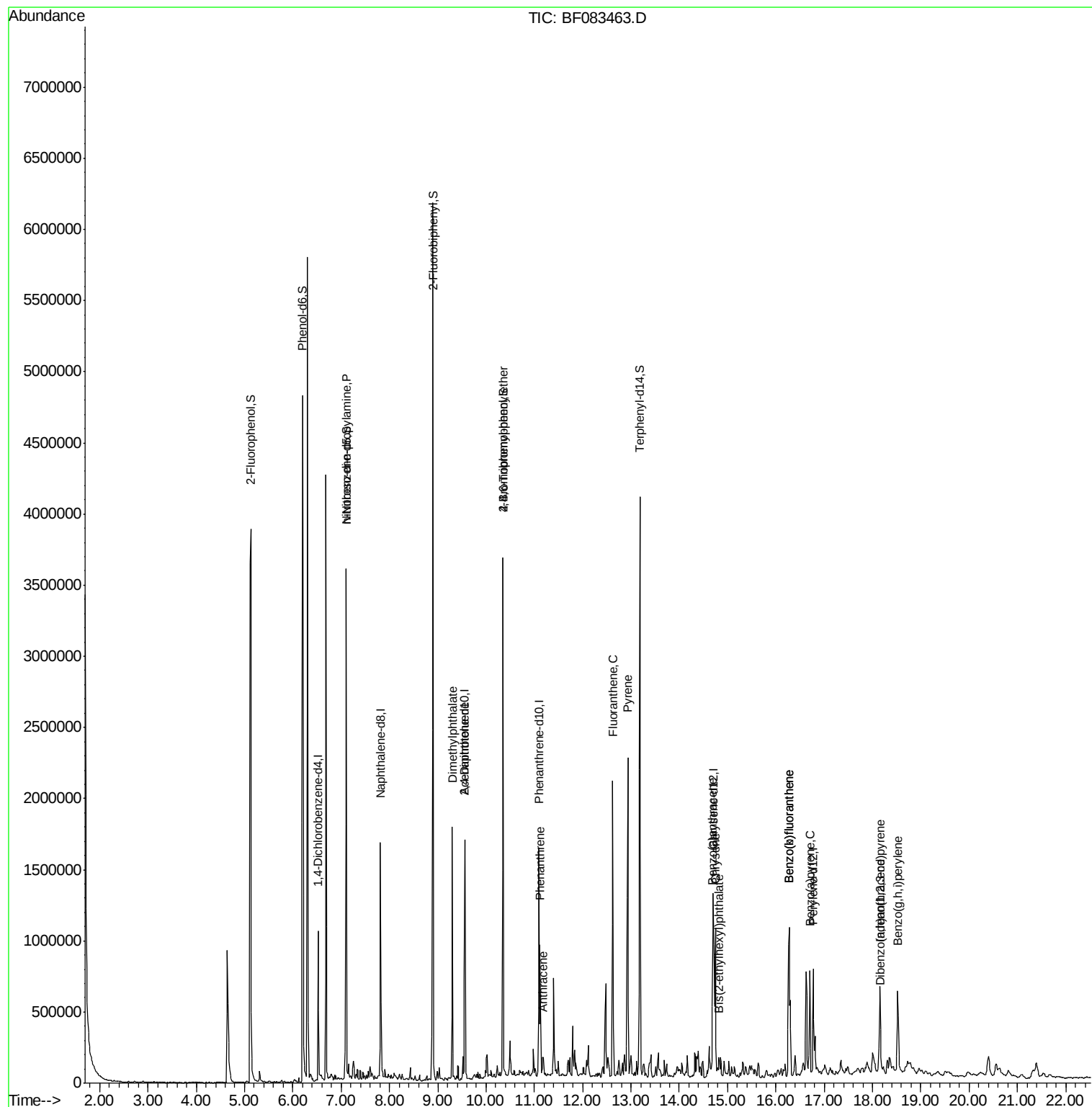
Target Compounds				Qvalue		
9) Benzaldehyde	6.12	77	1195	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.10	70	200407	17.66	ng	80
49) Dimethylphthalate	9.30	163	689544	23.46	ng	99
56) 2,4-Dinitrotoluene	9.56	165	47710	5.99	ng	7
66) 4-Bromophenyl-phenylether	10.35	248	29371	4.21	ng	1
70) Phenanthrene	11.12	178	427581	11.34	ng	100
71) Anthracene	11.19	178	77623	2.04	ng	98
74) Fluoranthene	12.63	202	1064526	27.23	ng	96
77) Pyrene	12.93	202	1145048	33.78	ng	99
80) Benzo(a)anthracene	14.69	228	523068	17.59	ng	96
82) Chrysene	14.75	228	595874	20.74	ng	98
83) Bis(2-ethylhexyl)phthalate	14.82	149	47723	2.47	ng	97
85) Indeno(1,2,3-cd)pyrene	18.16	276	403095	19.26	ng	97
87) Benzo(b)fluoranthene	16.27	252	959771	38.90	ng	99
88) Benzo(k)fluoranthene	16.27	252	959771	41.19	ng	# 97
89) Benzo(a)pyrene	16.71	252	395737	18.67	ng	99
90) Dibenzo(a,h)anthracene	18.17	278	92203	4.99	ng	96
91) Benzo(g,h,i)perylene	18.52	276	431231	23.79	ng	# 95

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

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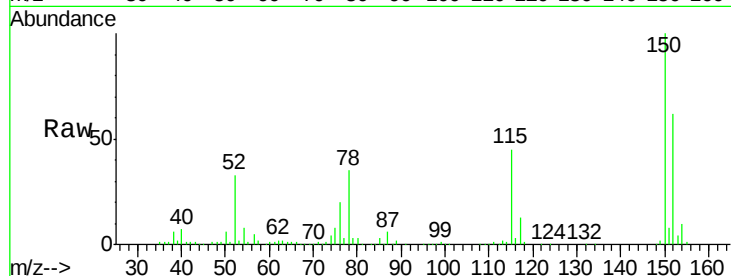


#1

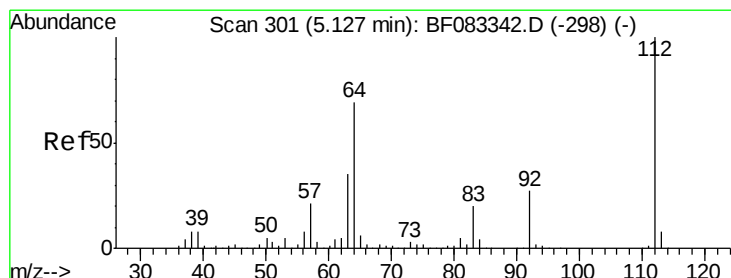
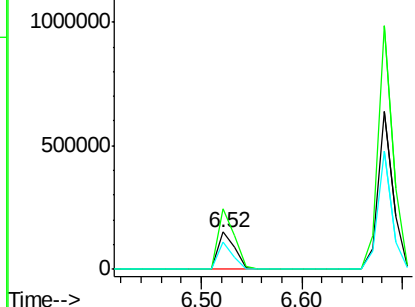
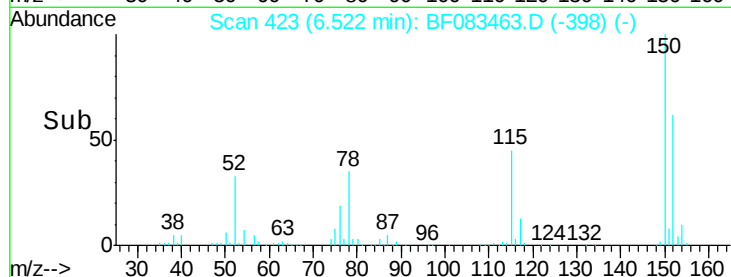
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.52 min Scan# 423
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.5	129.8	194.8
115	72.1	59.2	88.8



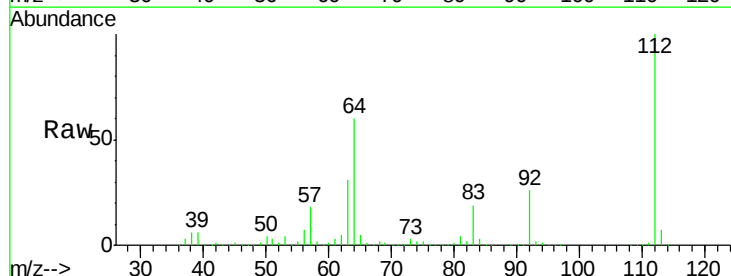
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



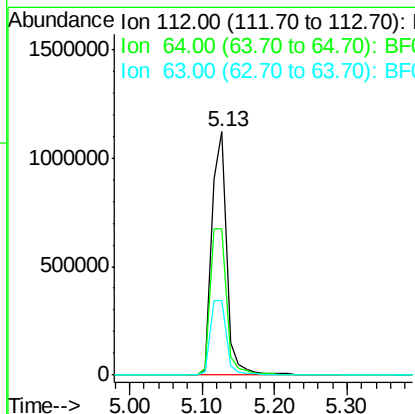
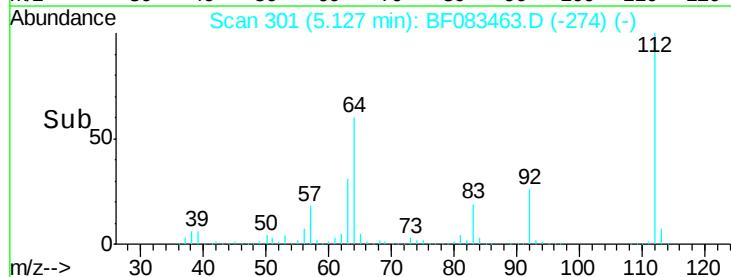
#5

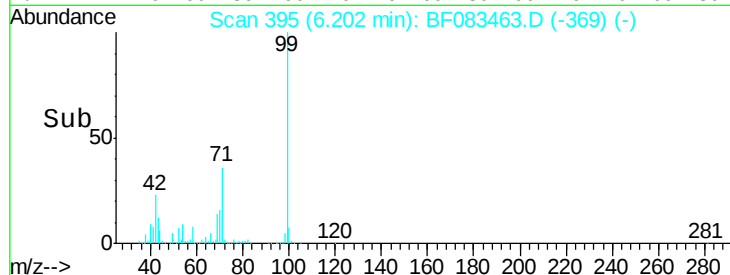
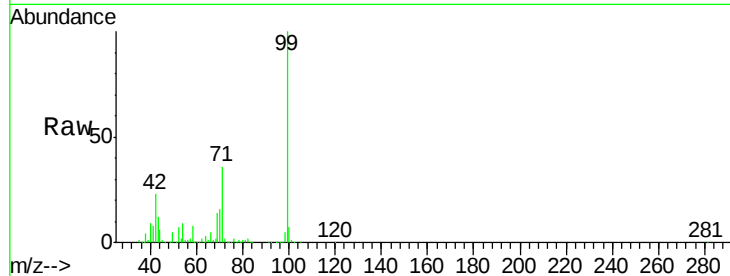
2-Fluorophenol
Concen: 137.95 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.9	55.6	83.4
63	30.8	28.2	42.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.81 ng

RT: 6.20 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

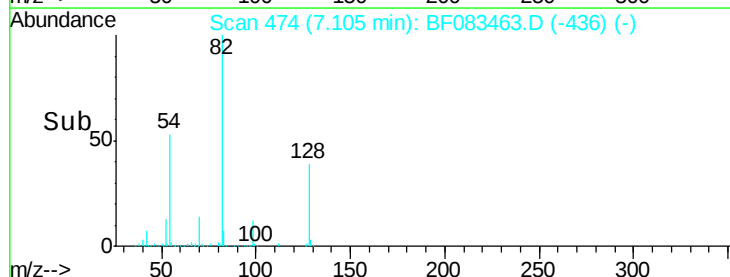
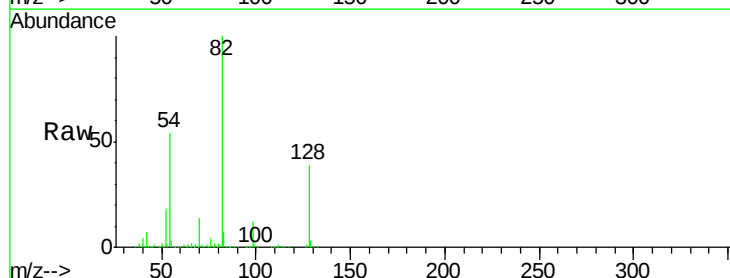
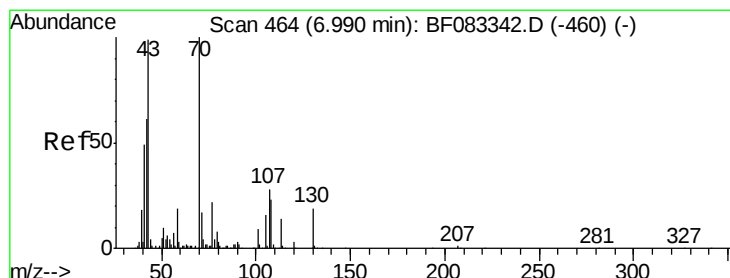
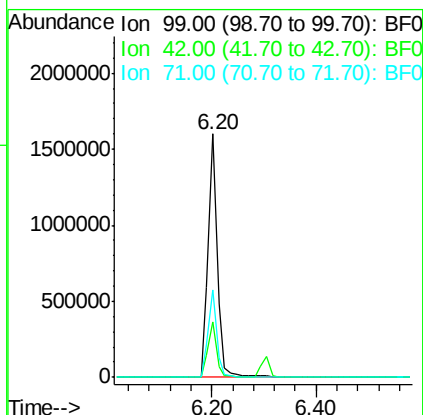
Tot Ion: 99 Resp: 1965685

Ion Ratio Lower Upper

99 100

42 23.0 14.9 22.3#

71 35.7 24.7 37.1



#19

n-Nitroso-di-n-propylamine

Concen: 17.66 ng

RT: 7.10 min Scan# 474

Delta R.T. 0.14 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Tgt Ion: 70 Resp: 200407

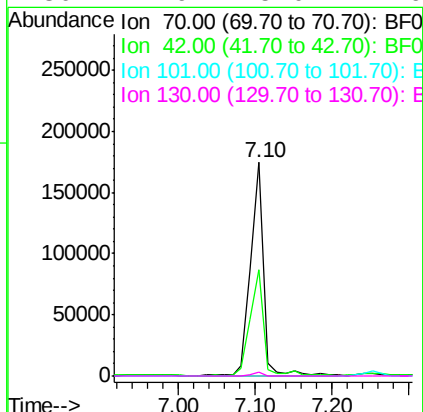
Ion Ratio Lower Upper

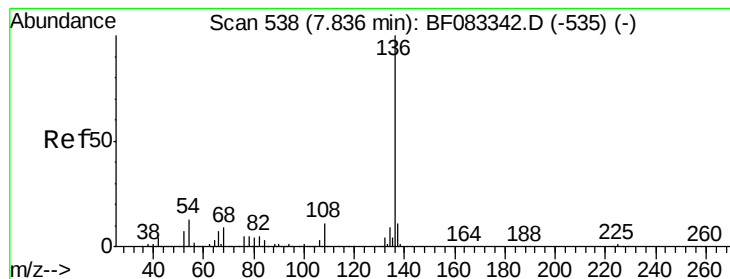
70 100

42 50.0 48.8 73.2

101 0.0 7.1 10.7#

130 1.9 15.0 22.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 683114

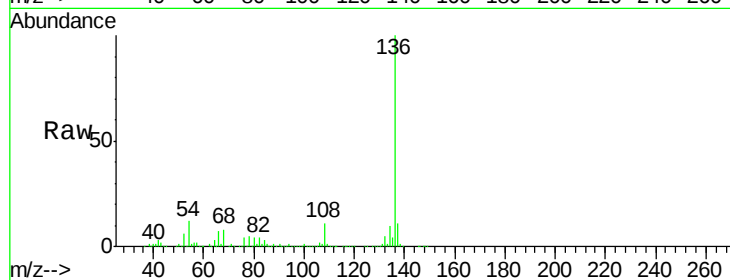
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.4

54 11.9 10.1 15.1

68 8.2 7.1 10.7

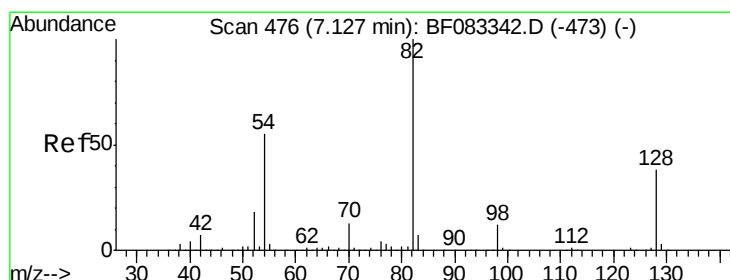
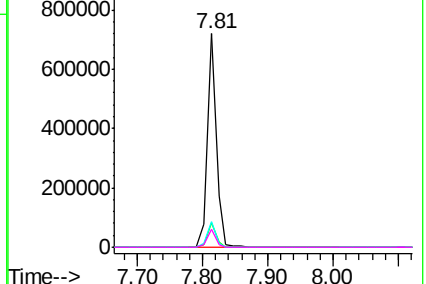
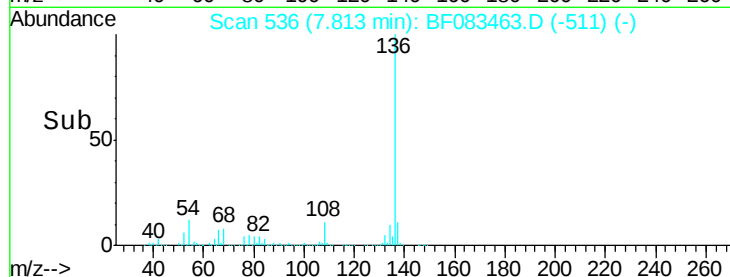


Abundance Ion 136.00 (135.70 to 136.70): E

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: 91.36 ng

RT: 7.10 min Scan# 474

Delta R.T. 0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

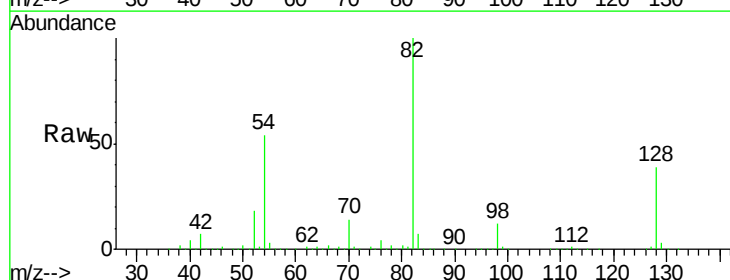
Tgt Ion: 82 Resp: 1419689

Ion Ratio Lower Upper

82 100

128 38.9 30.6 46.0

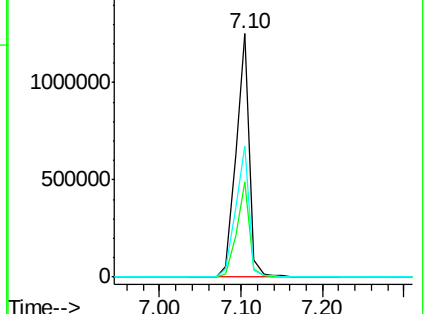
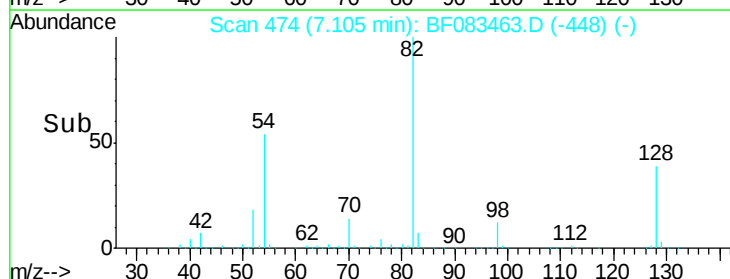
54 53.9 43.8 65.6

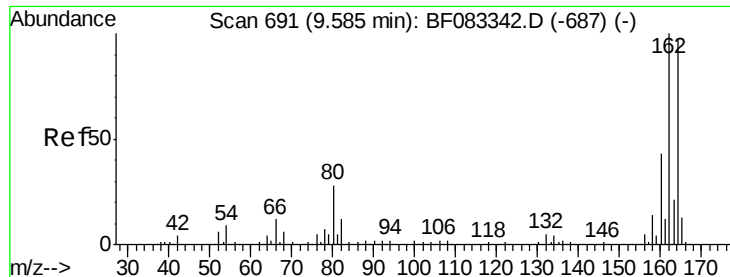


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

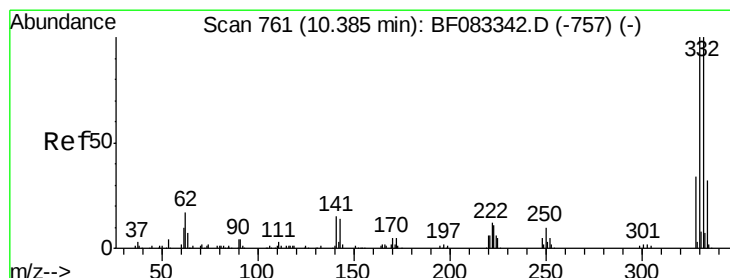
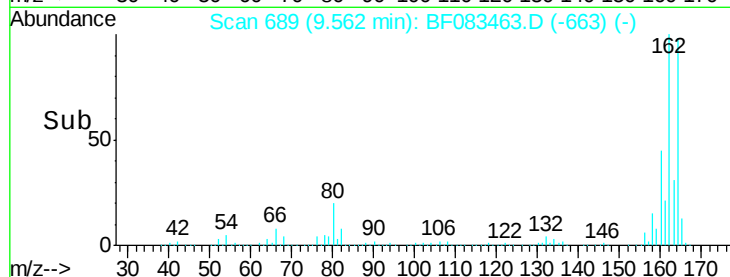
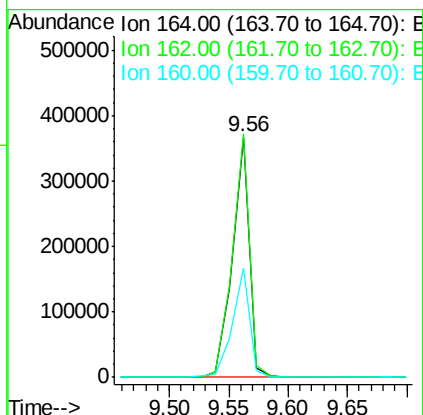
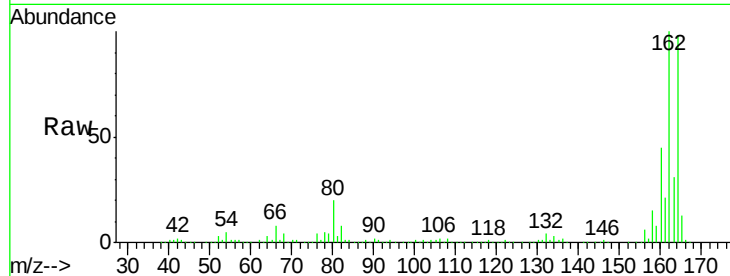




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.56 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

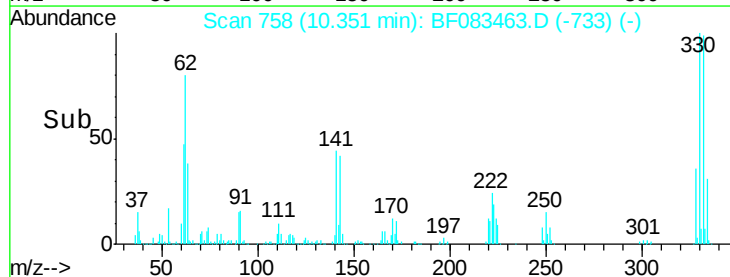
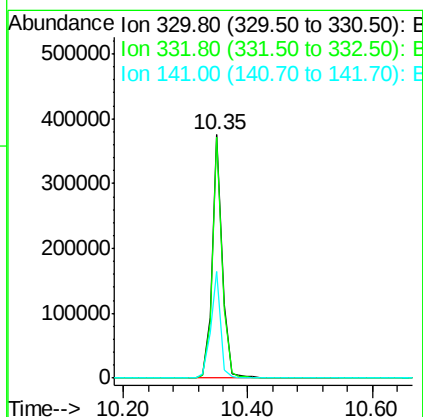
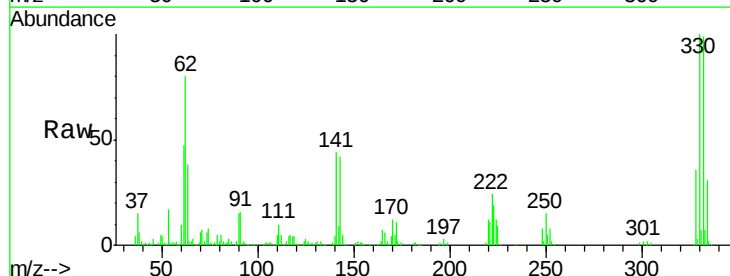
Instrument :
 BNA_F
 ClientSampleId :

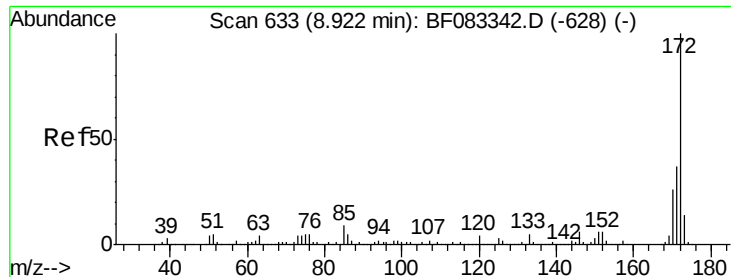
Tot Ion:164 Resp: 361694
 Ion Ratio Lower Upper
 164 100
 162 101.5 82.6 123.8
 160 45.4 35.3 52.9



#41
 2,4,6-Tribromophenol
 Concen: 114.75 ng
 RT: 10.35 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Tgt Ion:330 Resp: 416655
 Ion Ratio Lower Upper
 330 100
 332 96.8 77.8 116.6
 141 43.3 29.4 44.0

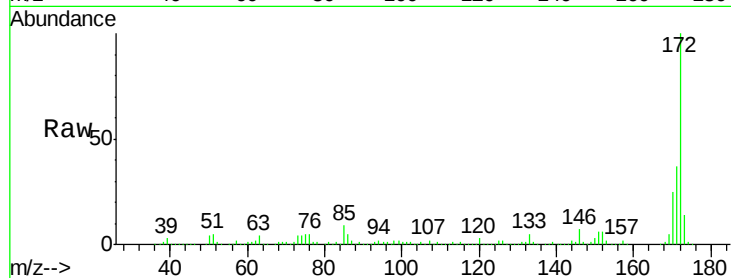




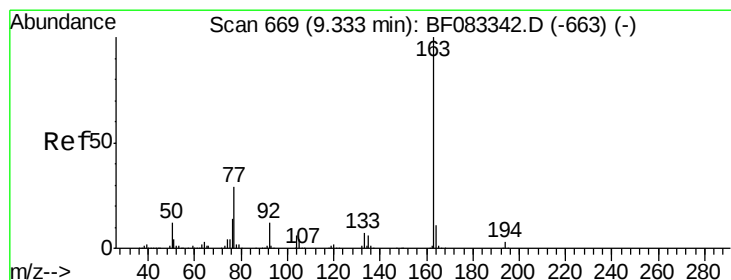
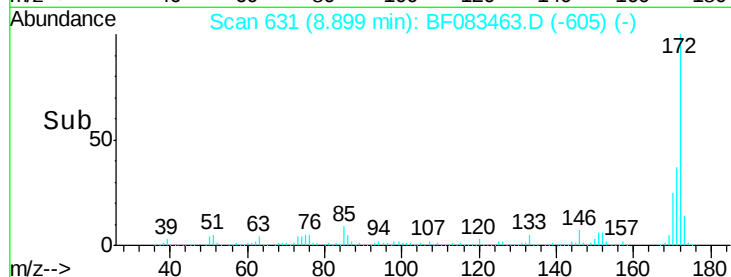
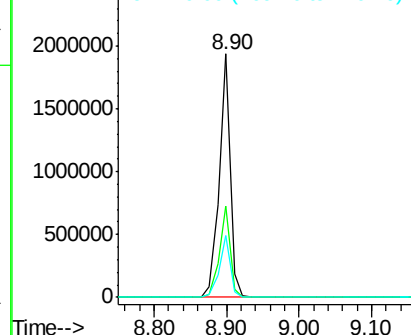
#44
2-Fluorobiphenyl
Concen: 80.45 ng
RT: 8.90 min Scan# 631
Delta R.T. -0.00 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 2041806
Ion Ratio Lower Upper
172 100
171 37.3 29.4 44.0
170 25.4 20.4 30.6

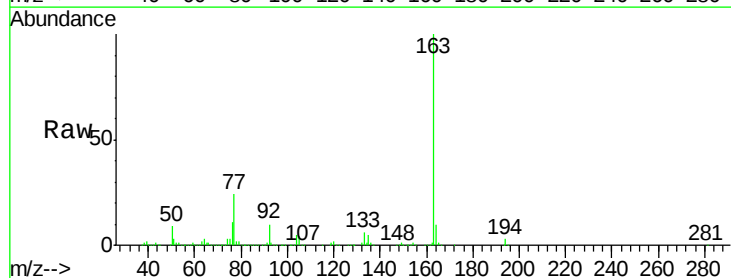


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

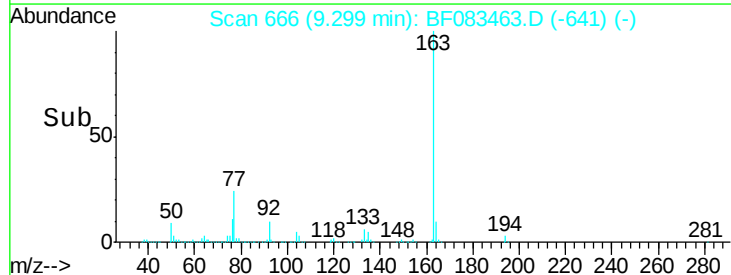
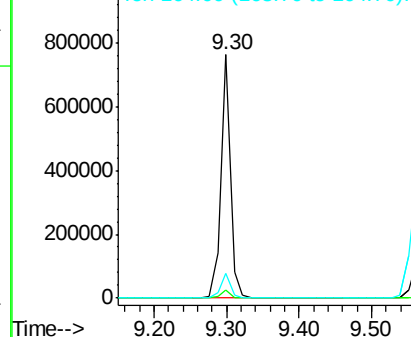


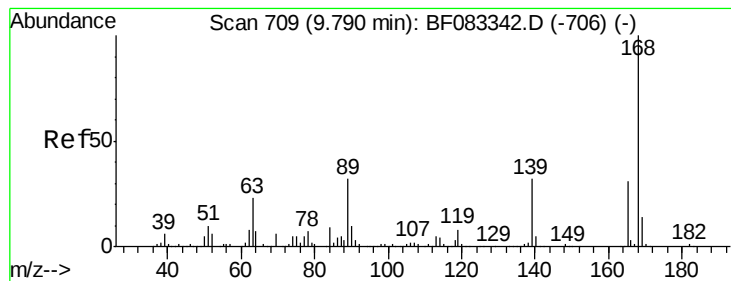
#49
Dimethylphthalate
Concen: 23.46 ng
RT: 9.30 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion:163 Resp: 689544
Ion Ratio Lower Upper
163 100
194 3.4 2.7 4.1
164 10.3 8.8 13.2



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





#56

2,4-Dinitrotoluene

Concen: 5.99 ng

RT: 9.56 min Scan# 689

Delta R.T. -0.22 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 47710

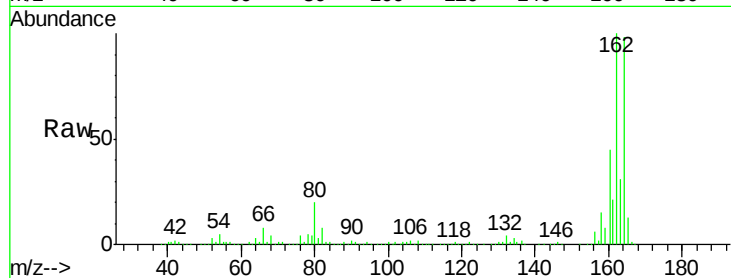
Ion Ratio Lower Upper

165 100

63 1.9 65.4 98.0#

89 2.2 81.2 121.8#

182 0.0 1.8 2.8#

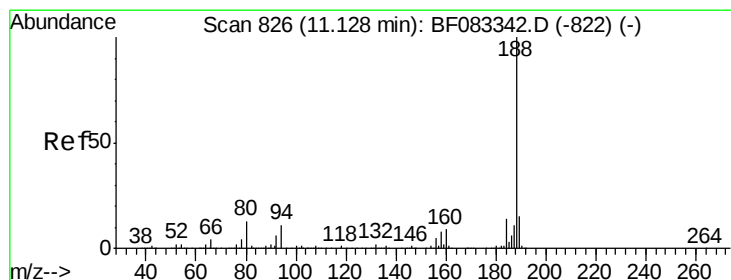
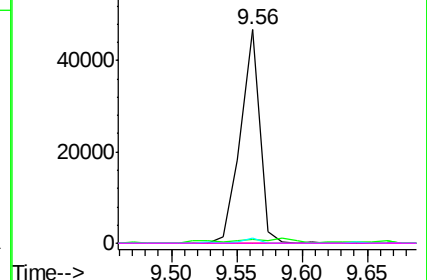
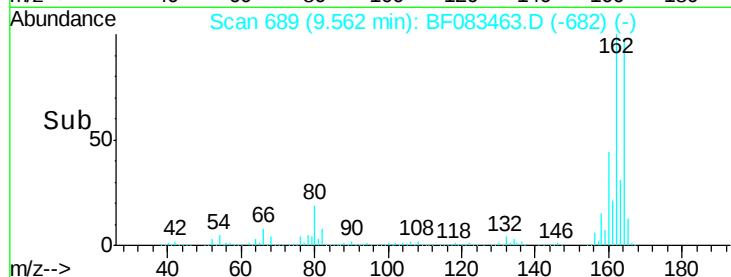


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.09 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

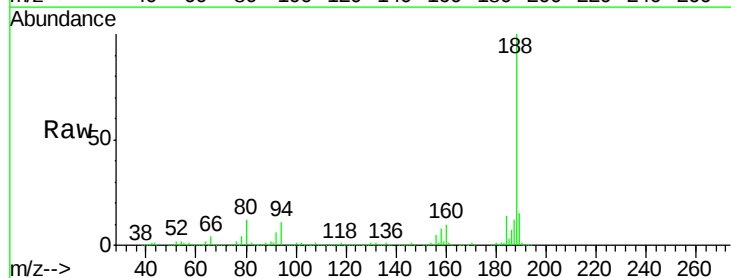
Tgt Ion:188 Resp: 637408

Ion Ratio Lower Upper

188 100

94 10.6 8.7 13.1

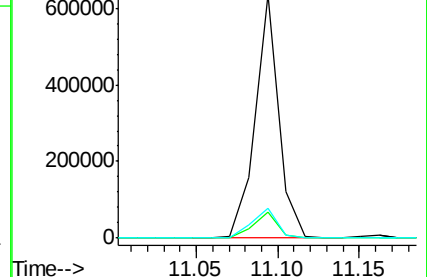
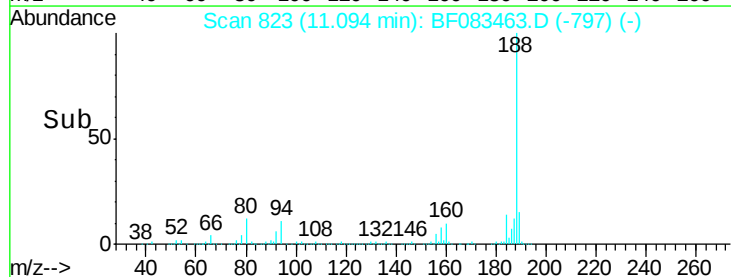
80 12.1 10.3 15.5

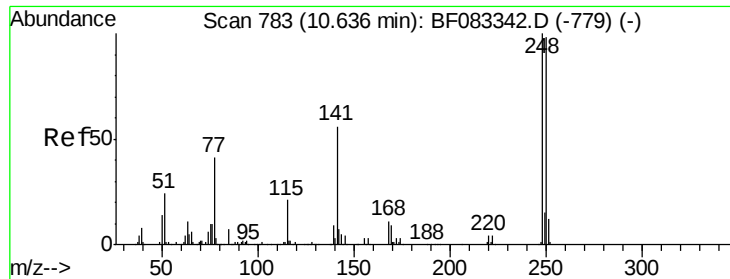


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

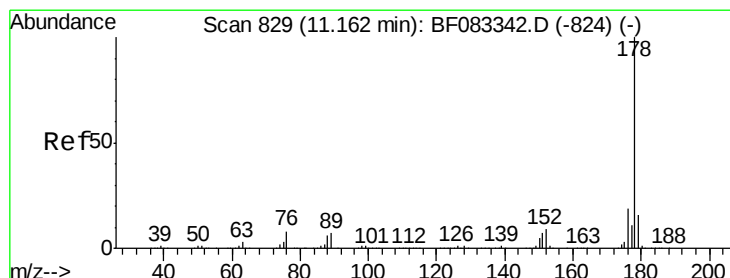
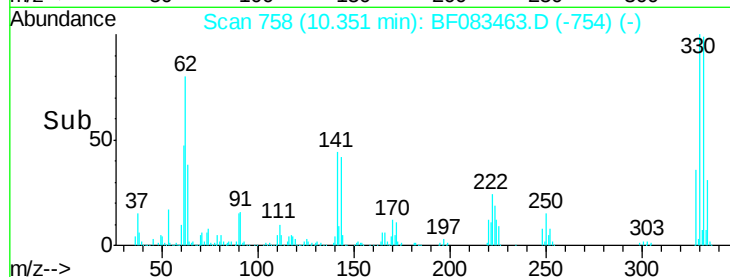
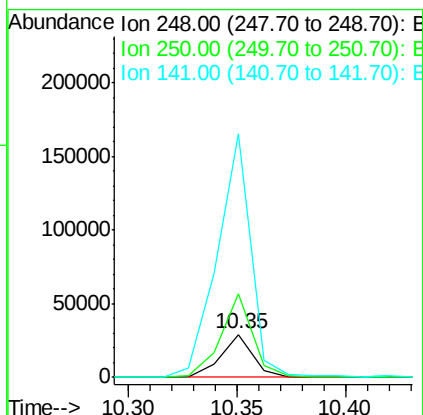
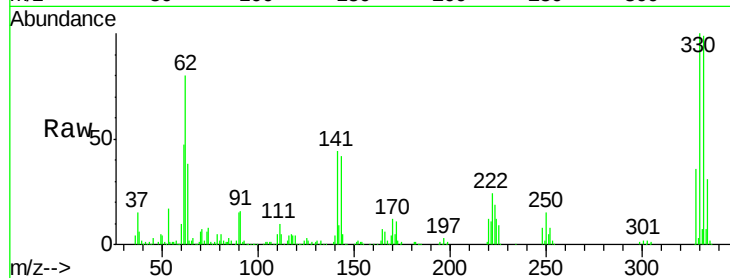




#66
4-Bromophenyl-phenylether
Concen: 4.21 ng
RT: 10.35 min Scan# 758
Delta R.T. -0.25 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

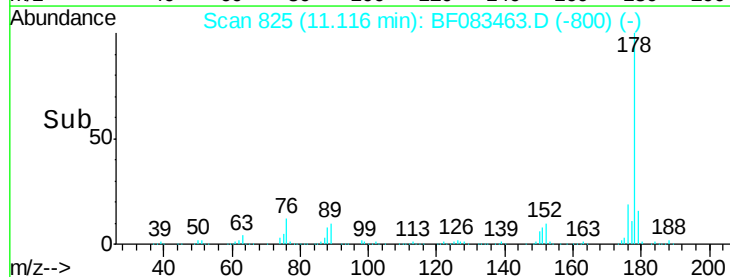
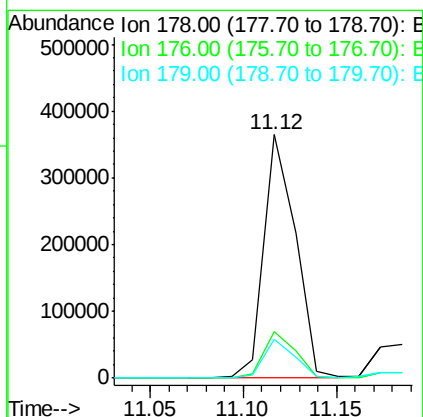
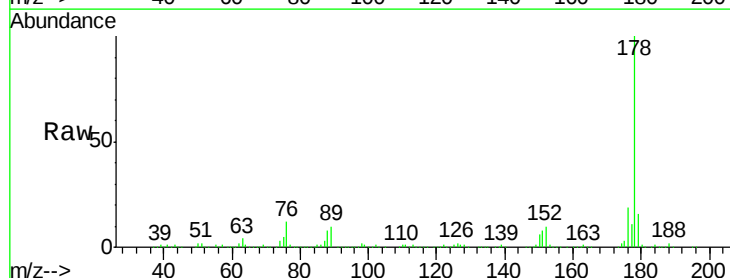
Instrument :
BNA_F
ClientSampled :

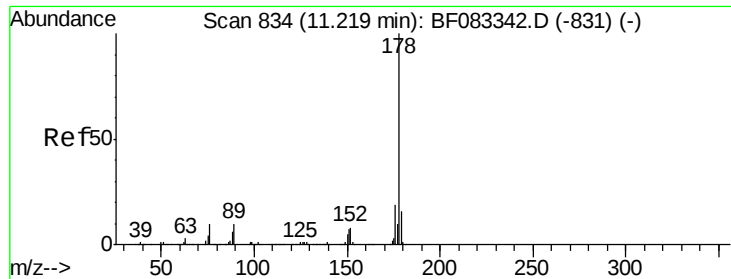
Tot Ion:248 Resp: 29371
Ion Ratio Lower Upper
248 100
250 193.0 78.6 118.0#
141 564.6 44.4 66.6#



#70
Phenanthrene
Concen: 11.34 ng
RT: 11.12 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion:178 Resp: 427581
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.9 12.4 18.6

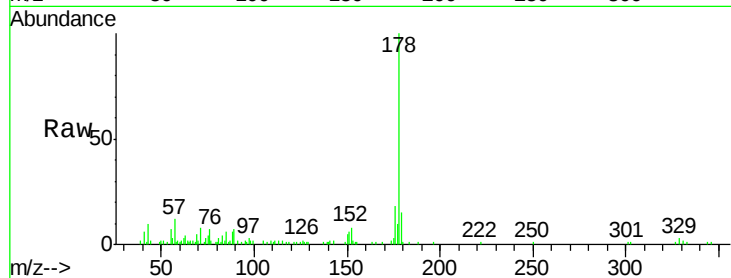




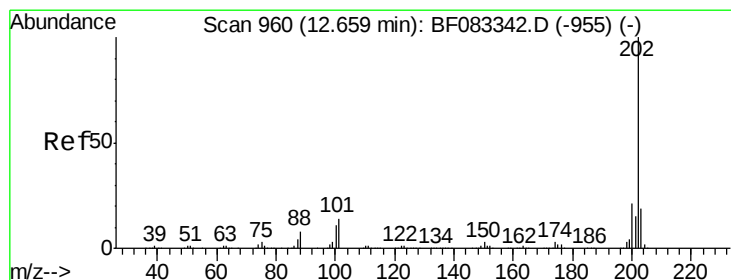
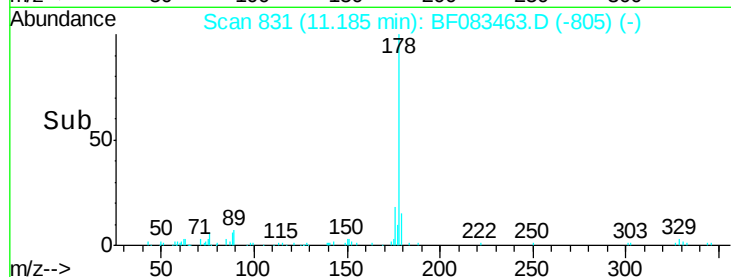
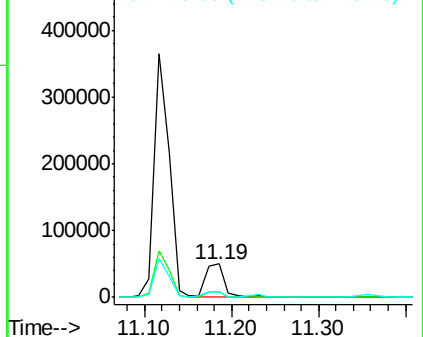
#71
 Anthracene
 Concen: 2.04 ng
 RT: 11.19 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 77623
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.6 23.4
 179 15.4 12.8 19.2

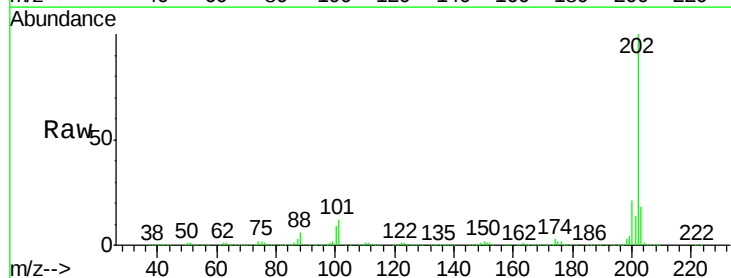


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

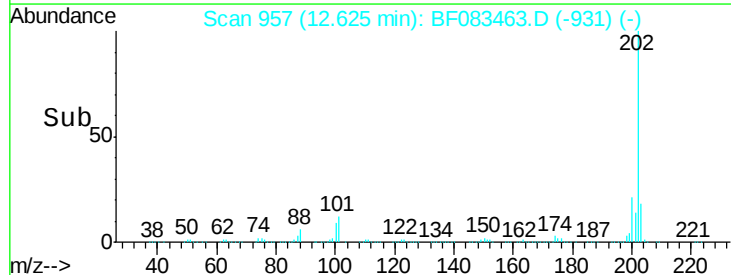
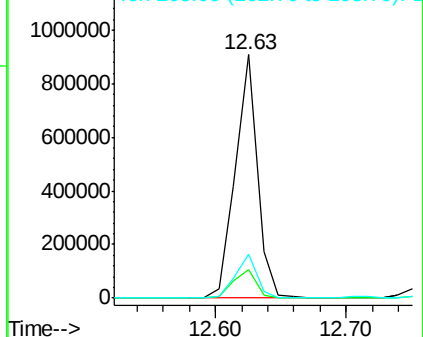


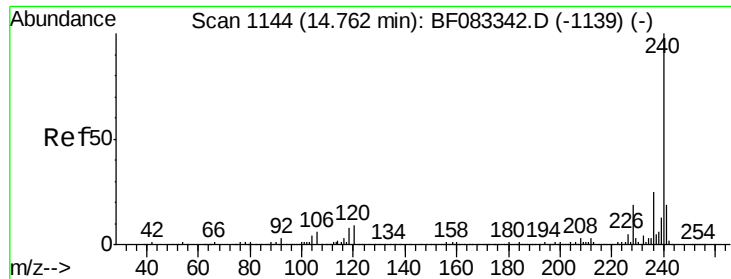
#74
 Fluoranthene
 Concen: 27.23 ng
 RT: 12.63 min Scan# 957
 Delta R.T. -0.00 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Tgt Ion:202 Resp: 1064526
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 34.5
 203 17.8 0.0 38.7



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

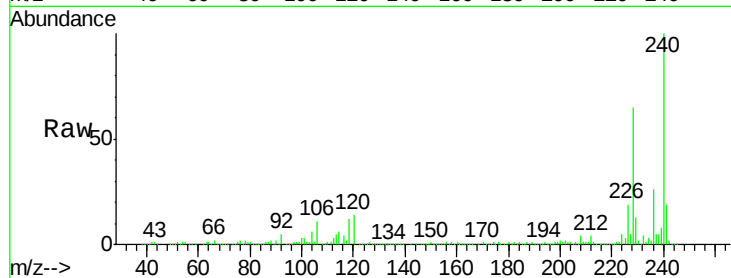




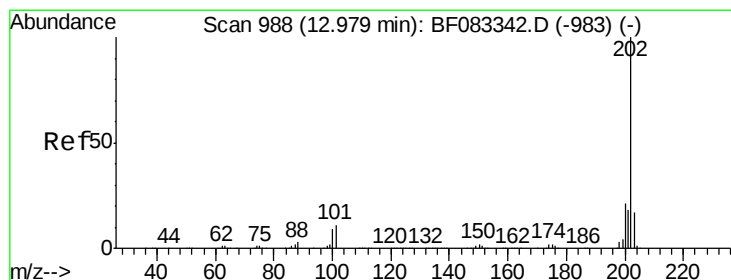
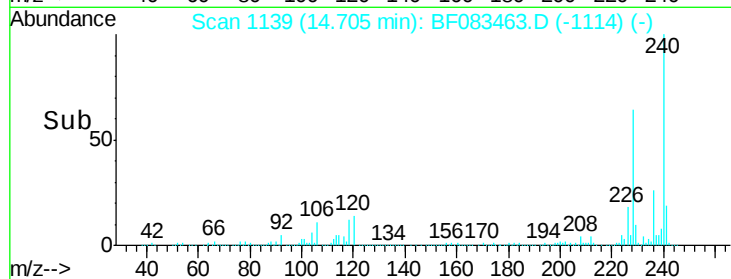
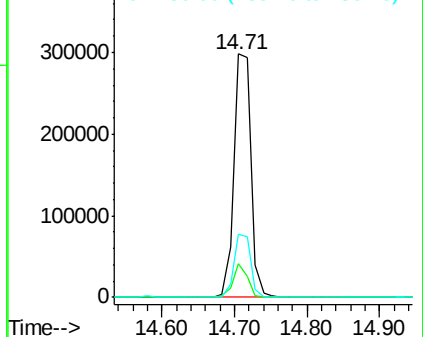
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.71 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 485390
Ion Ratio Lower Upper
240 100
120 13.6 6.9 10.3#
236 25.7 19.8 29.6

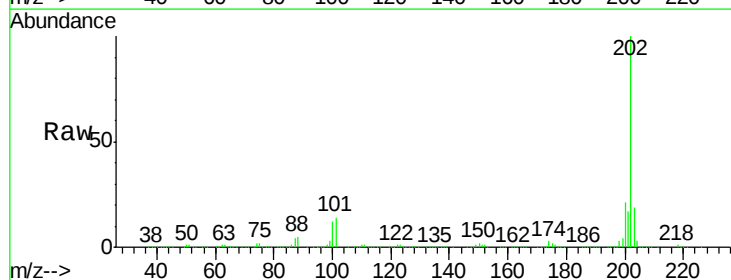


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

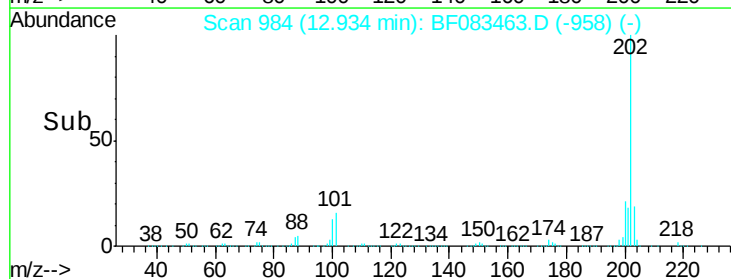
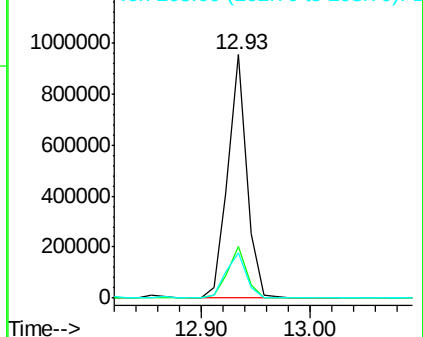


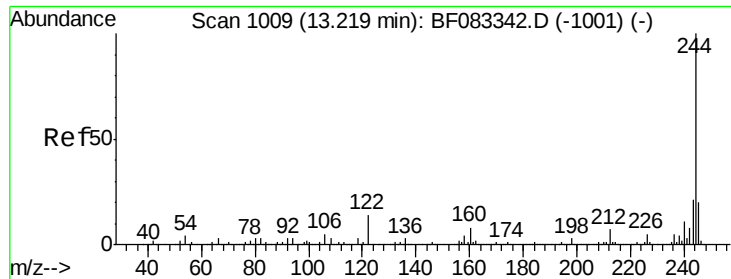
#77
Pyrene
Concen: 33.78 ng
RT: 12.93 min Scan# 984
Delta R.T. -0.00 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion:202 Resp: 1145048
Ion Ratio Lower Upper
202 100
200 21.1 16.9 25.3
203 18.8 13.9 20.9



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

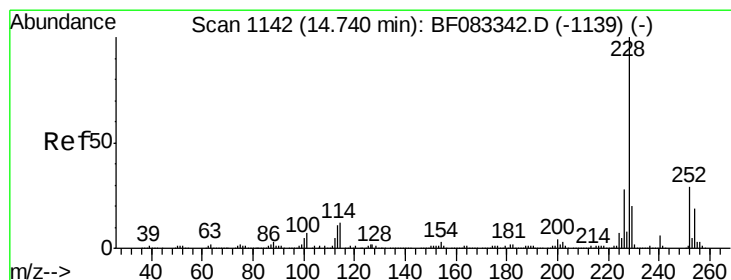
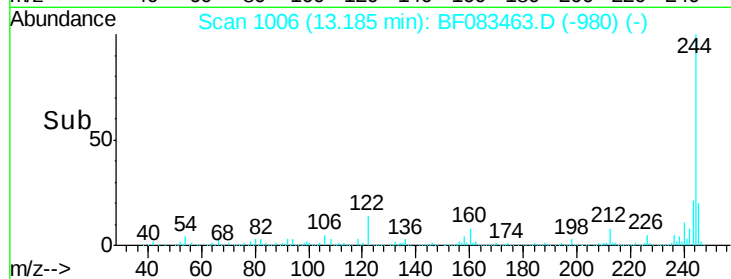
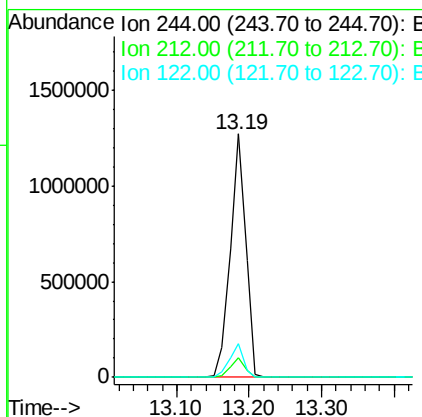
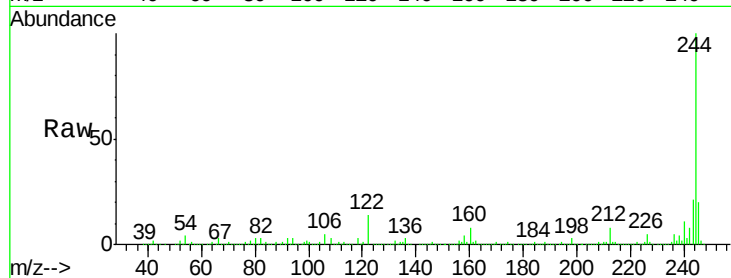




#78
 Terphenyl-d14
 Concen: 92.79 ng
 RT: 13.19 min Scan# 1006
 Delta R.T. -0.00 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

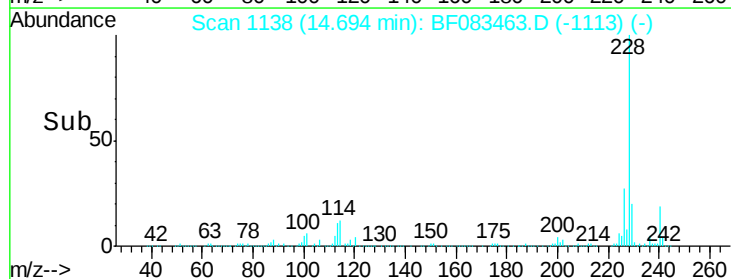
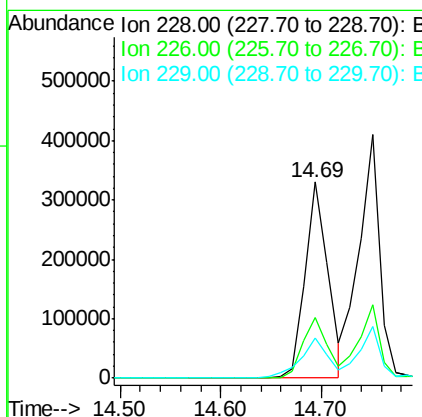
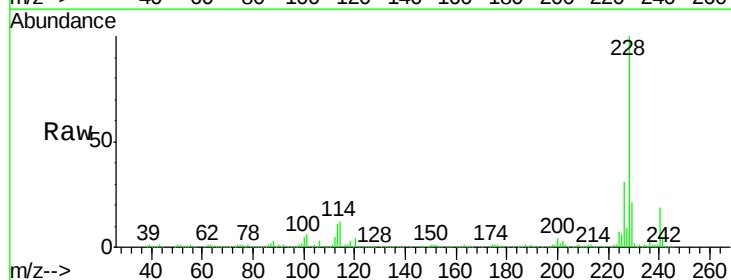
Instrument :
 BNA_F
 ClientSampleId :

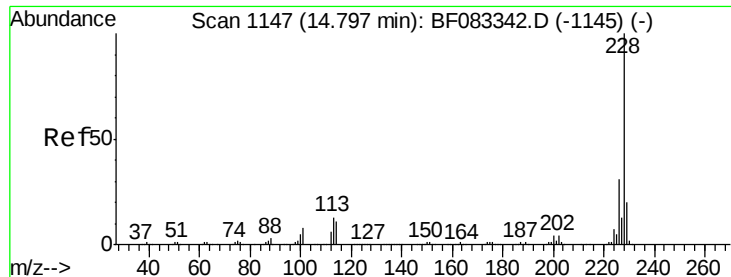
Tot Ion:244 Resp: 1888562
 Ion Ratio Lower Upper
 244 100
 212 7.9 5.8 8.8
 122 13.8 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 17.59 ng
 RT: 14.69 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Tgt Ion:228 Resp: 523068
 Ion Ratio Lower Upper
 228 100
 226 31.0 22.2 33.4
 229 20.7 16.1 24.1

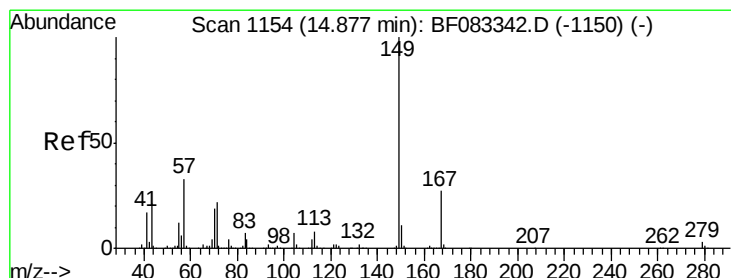
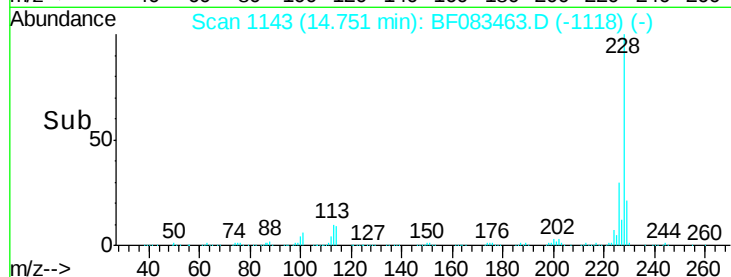
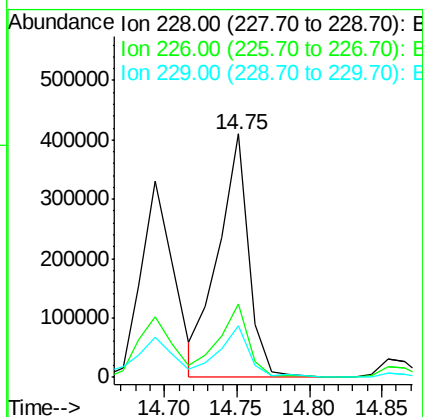
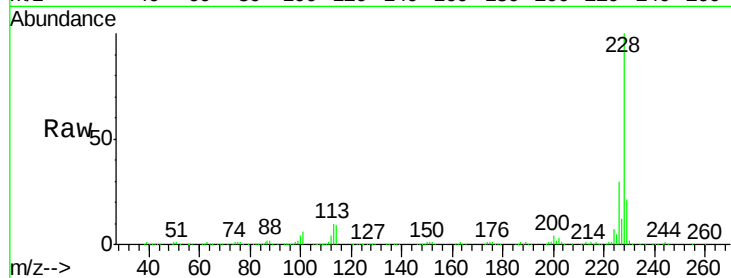




#82
 Chrysene
 Concen: 20.74 ng
 RT: 14.75 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

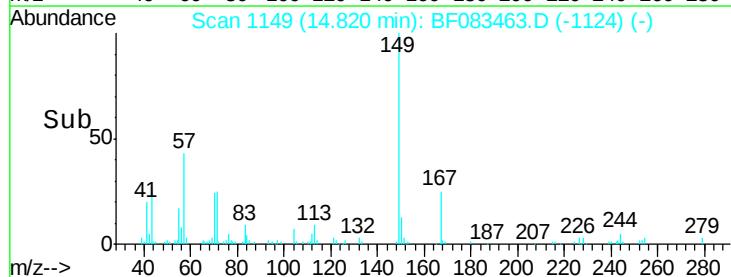
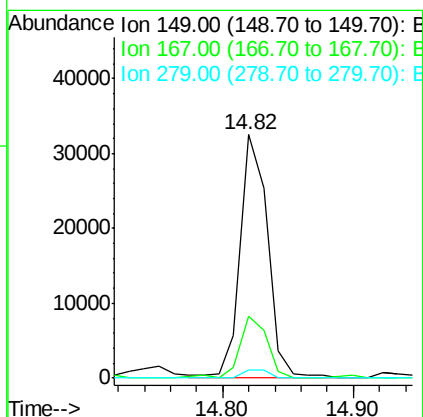
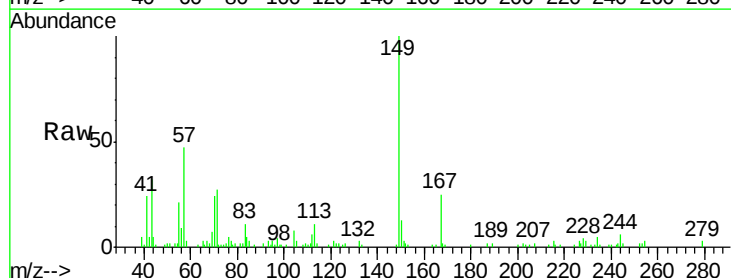
Instrument :
 BNA_F
 ClientSampled :

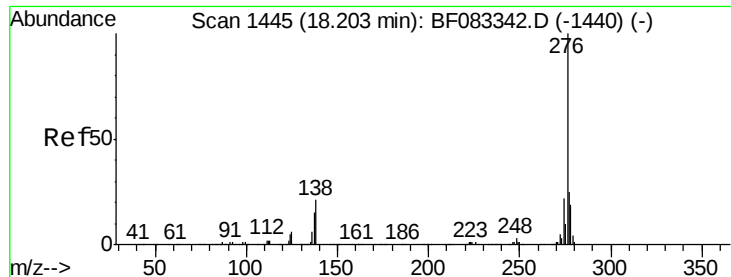
Tot Ion:228 Resp: 595874
 Ion Ratio Lower Upper
 228 100
 226 30.0 24.6 37.0
 229 21.3 16.2 24.2



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.47 ng
 RT: 14.82 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Tgt Ion:149 Resp: 47723
 Ion Ratio Lower Upper
 149 100
 167 25.5 21.5 32.3
 279 3.5 2.6 3.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 19.26 ng

RT: 18.16 min Scan# 1441

Delta R.T. -0.01 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

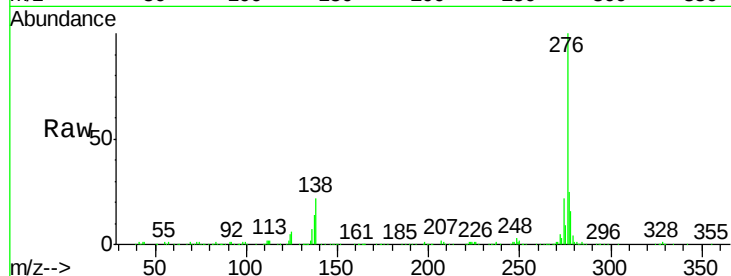
Tot Ion:276 Resp: 403095

Ion Ratio Lower Upper

276 100

138 24.0 21.2 31.8

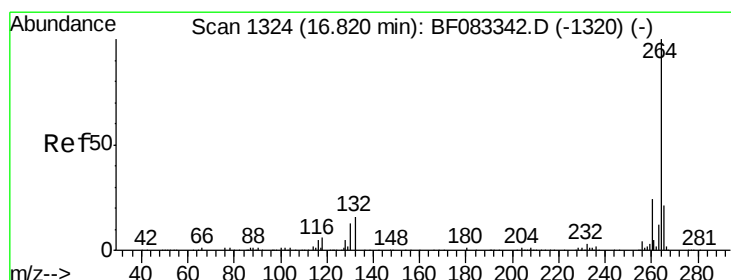
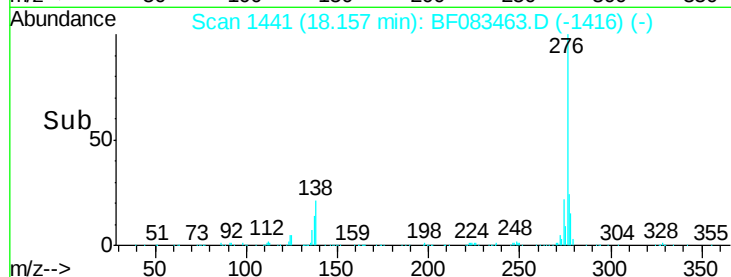
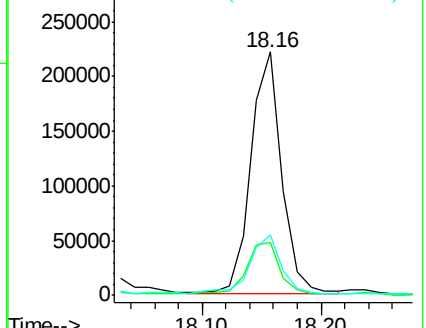
277 25.0 20.0 30.0



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

Perylene-d12

Concen: 20.00 ng

RT: 16.77 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

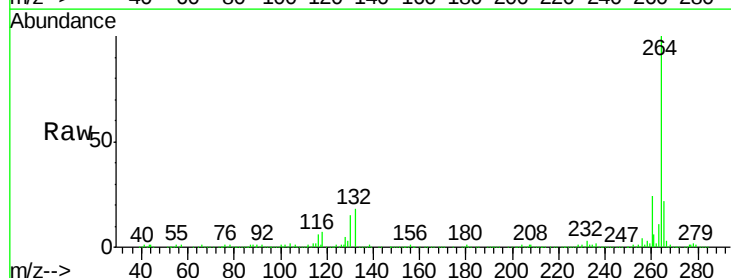
Tgt Ion:264 Resp: 384568

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

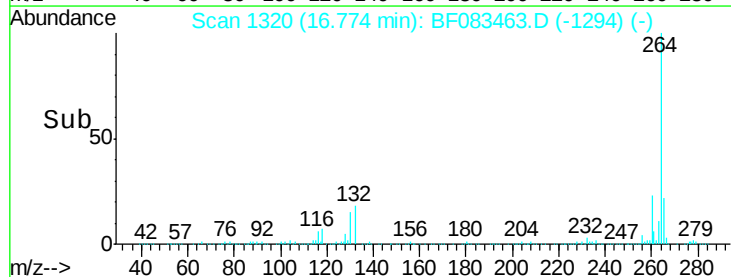
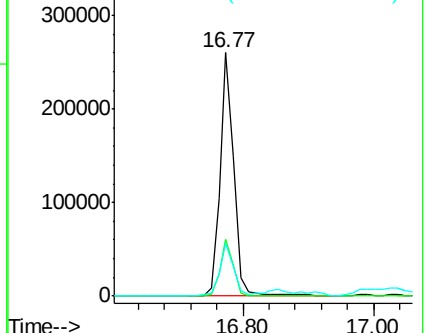
265 22.0 16.8 25.2

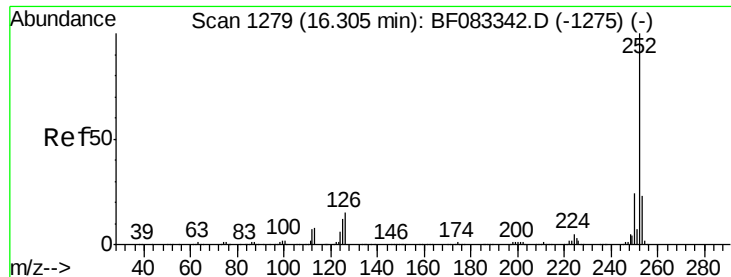


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 38.90 ng

RT: 16.27 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

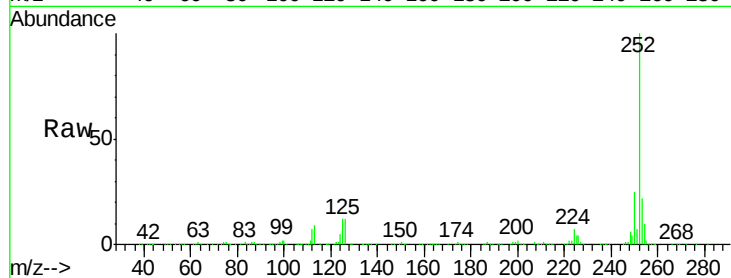
Tot Ion:252 Resp: 959771

Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

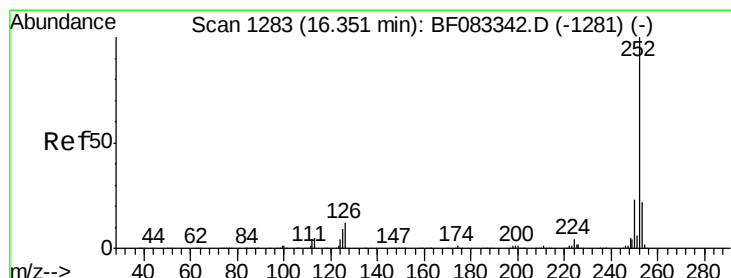
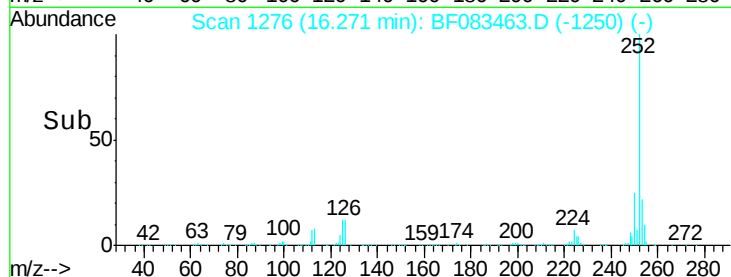
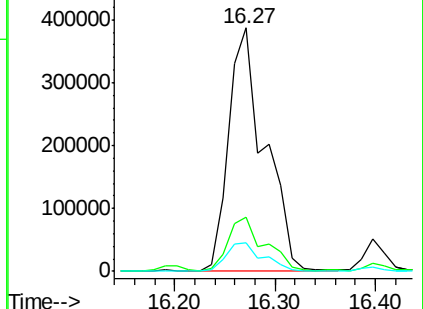
125 12.0 9.6 14.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 41.19 ng

RT: 16.27 min Scan# 1276

Delta R.T. -0.05 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

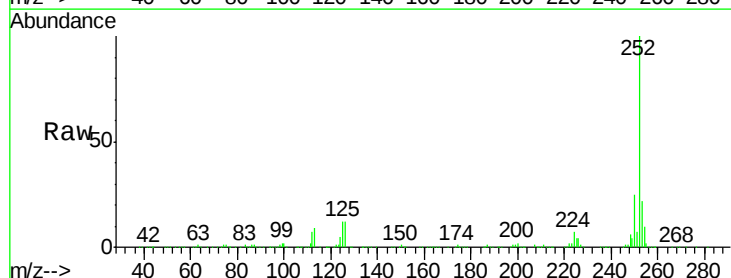
Tgt Ion:252 Resp: 959771

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

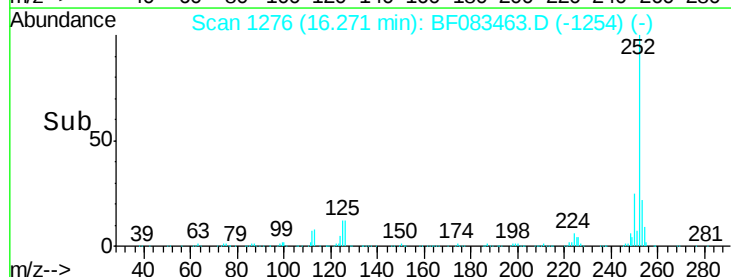
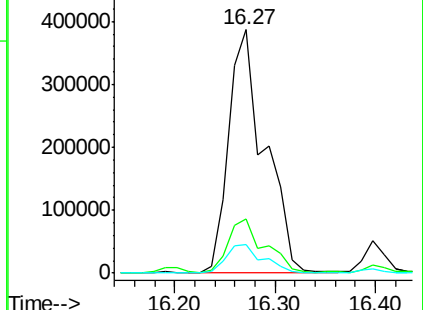
125 12.0 7.5 11.3#

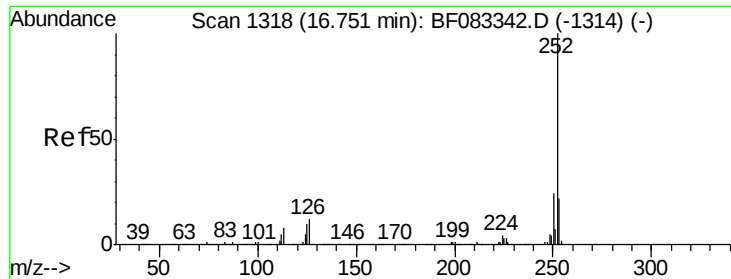


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

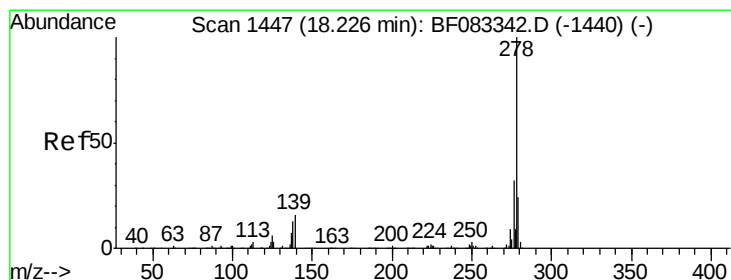
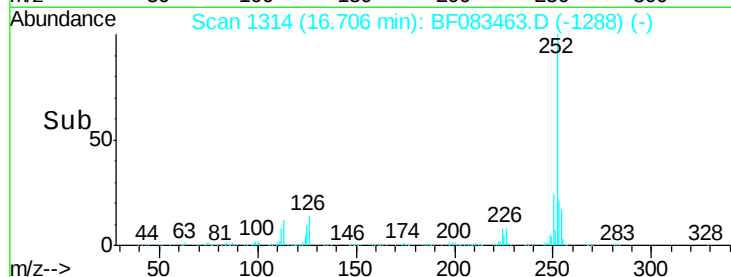
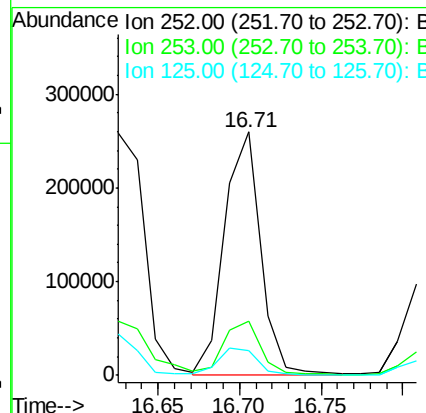
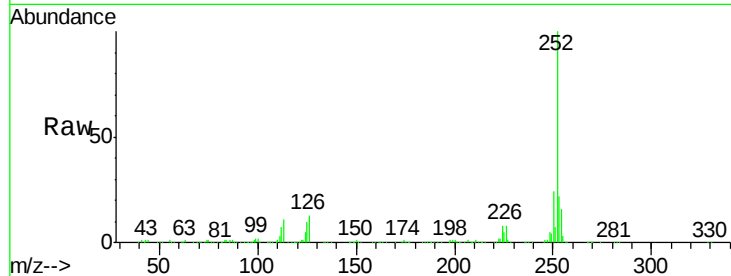




#89
Benzo(a)pyrene
Concen: 18.67 ng
RT: 16.71 min Scan# 1314
Delta R.T. -0.00 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

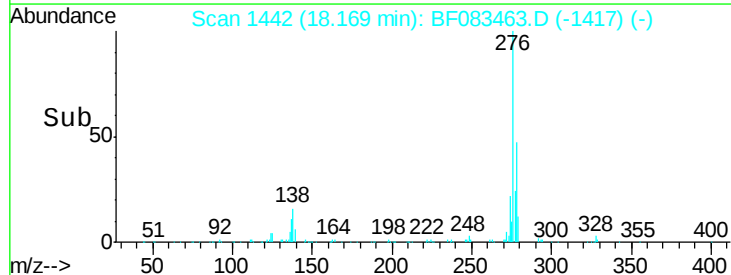
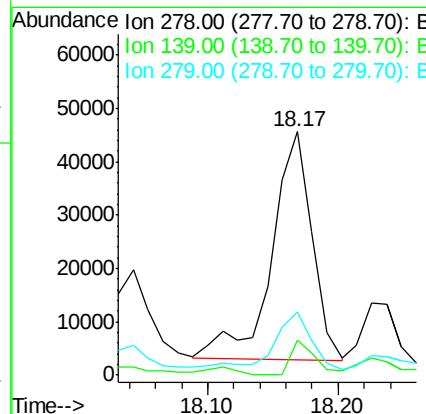
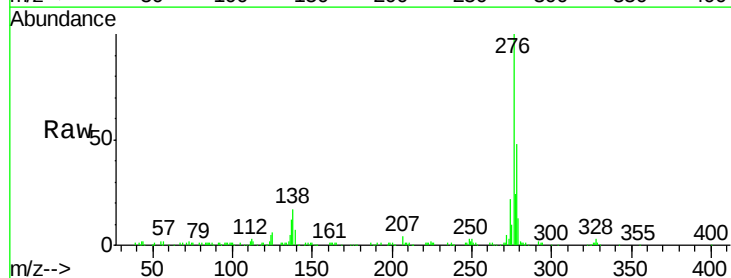
Instrument :
BNA_F
ClientSampleId :

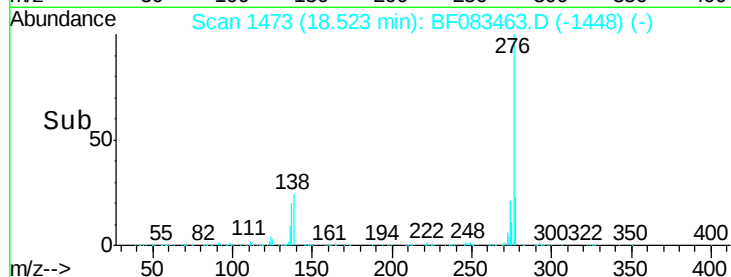
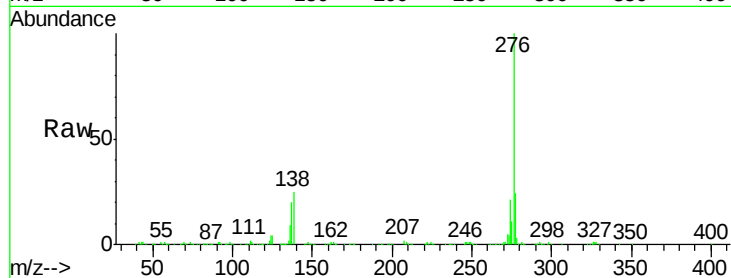
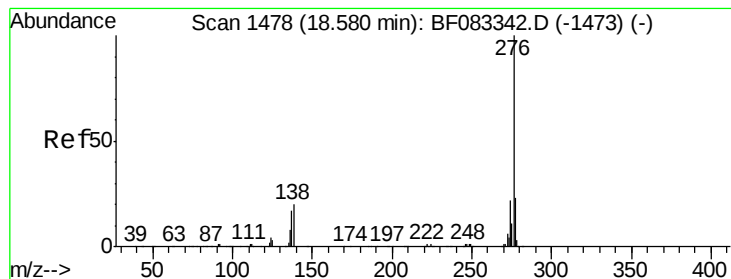
Tot Ion:252 Resp: 395737
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.0 7.8 11.8



#90
Dibenzo(a,h)anthracene
Concen: 4.99 ng
RT: 18.17 min Scan# 1442
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion:278 Resp: 92203
Ion Ratio Lower Upper
278 100
139 14.3 13.1 19.7
279 26.0 19.2 28.8





#91

Benzo(a,h,i)perylene

Concen: 23.79 ng

RT: 18.52 min Scan# 1473

Delta R.T. -0.01 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 431231

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 24.8 16.1 24.1#

