

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121515\
 Data File : BF083839.D
 Acq On : 16 Dec 2015 3:14
 Operator : UM/IZ
 Sample : G4739-04DL 5X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K206-0-2DL

Quant Time: Dec 16 04:34:58 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

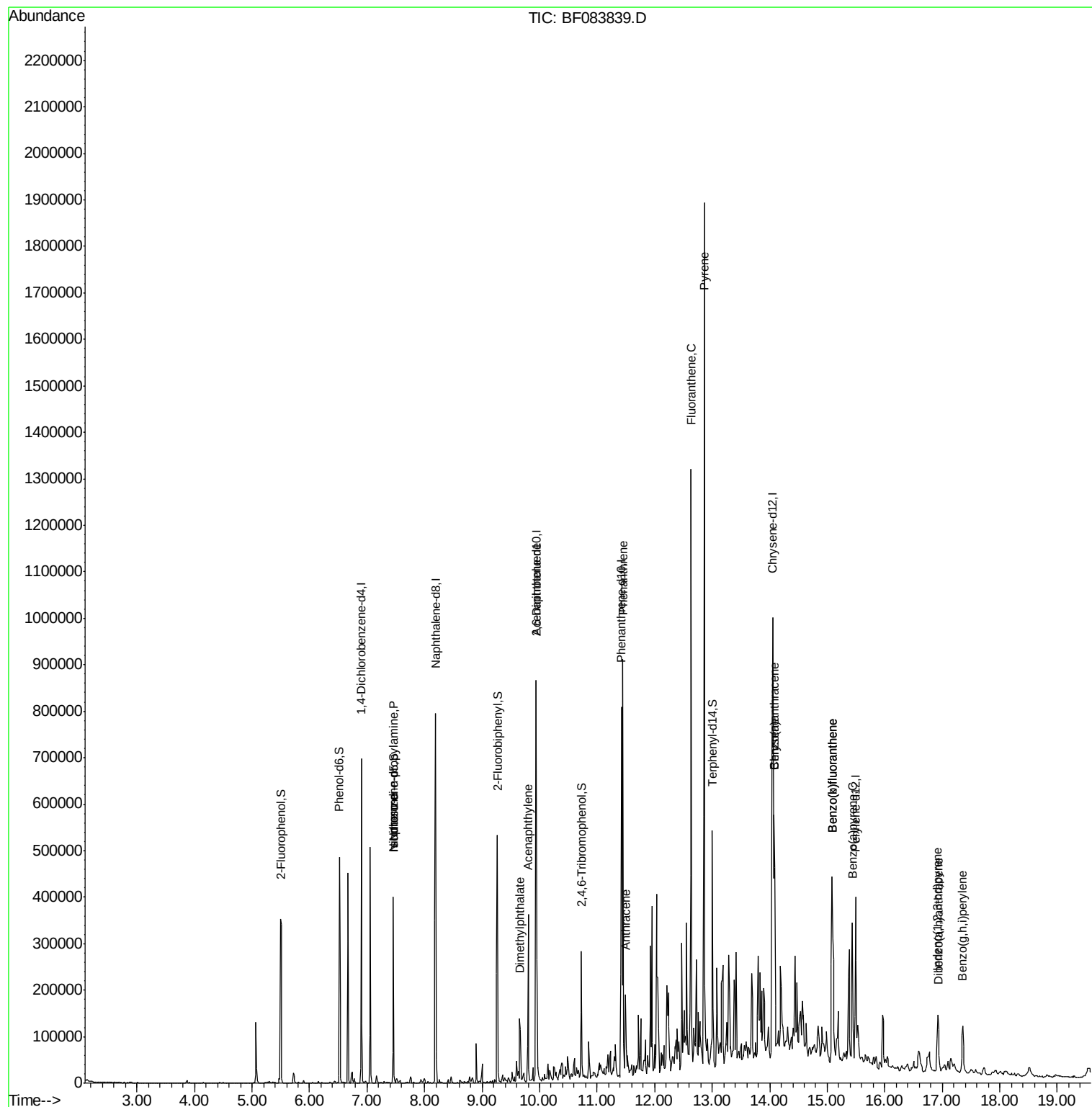
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	99303	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	410461	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	177645	20.00	ng	-0.02
63) Phenanthrene-d10	11.42	188	294235	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	209332	20.00	ng	-0.02
86) Perylene-d12	15.49	264	170576	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	152094	24.71	ng	-0.02
7) Phenol-d6	6.52	99	177705	22.80	ng	-0.02
23) Nitrobenzene-d5	7.46	82	116965	15.94	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	38021	21.00	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	198743	13.72	ng	-0.02
78) Terphenyl-d14	13.00	244	134023	13.77	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	15630	3.27	ng	# 69
25) Isophorone	7.46	82	101742	7.07	ng	# 69
48) Acenaphthylene	9.80	152	152229	7.79	ng	99
49) Dimethylphthalate	9.65	163	52240	3.77	ng	99
50) 2,6-Dinitrotoluene	9.94	165	22938	7.80	ng	# 18
70) Phenanthrene	11.45	178	306471	19.61	ng	99
71) Anthracene	11.49	178	79261	4.88	ng	97
74) Fluoranthene	12.64	202	493004	30.52	ng	98
77) Pyrene	12.86	202	721872	43.63	ng	98
80) Benzo(a)anthracene	14.08	228	234523	19.70	ng	96
82) Chrysene	14.08	228	234558	20.20	ng	99
85) Indeno(1,2,3-cd)pyrene	16.92	276	77081	6.76	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	277694	25.52	ng	# 96
88) Benzo(k)fluoranthene	15.08	252	277694	28.16	ng	98
89) Benzo(a)pyrene	15.44	252	111276	11.46	ng	98
90) Dibenzo(a,h)anthracene	16.93	278	23209	2.40	ng	# 93
91) Benzo(g,h,i)perylene	17.36	276	80410	8.10	ng	99

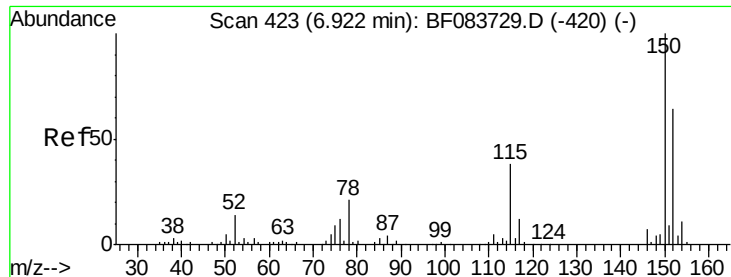
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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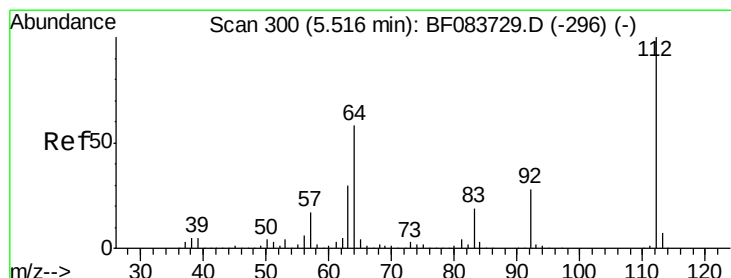
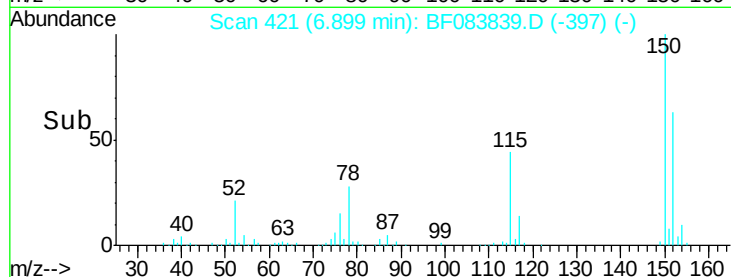
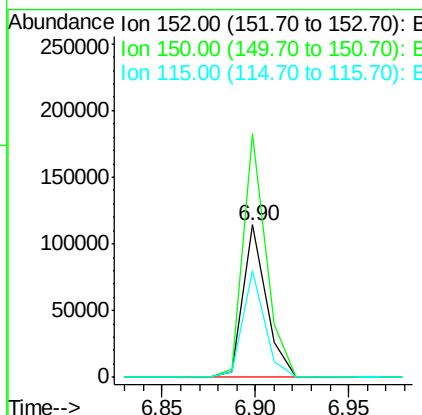
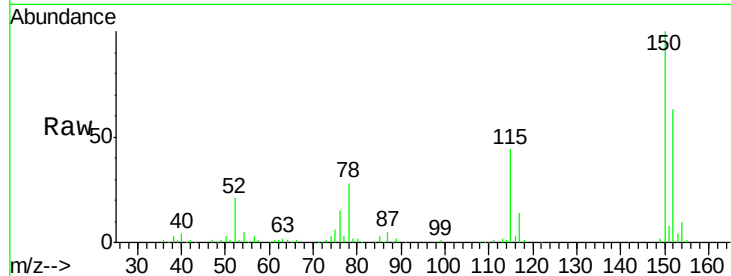




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.90 min Scan# 421
 Delta R.T. -0.02 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

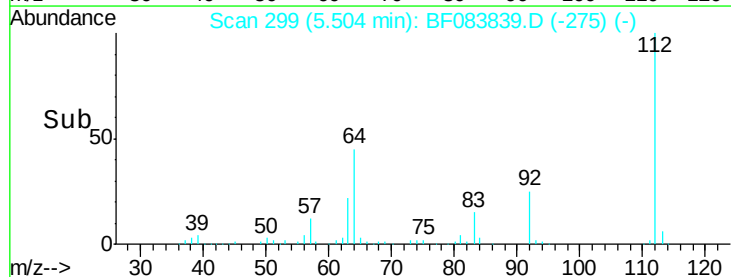
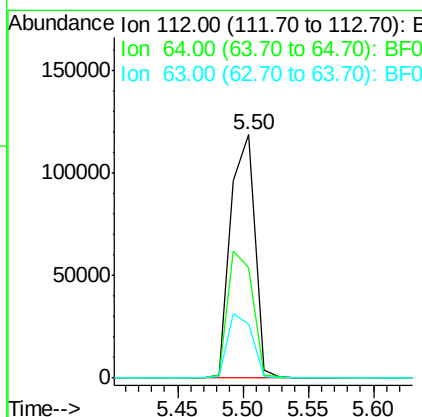
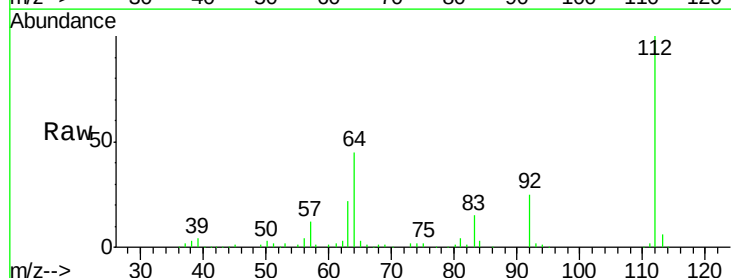
Instrument :
 BNA_F
 ClientSampleId :
 K206-0-2DL

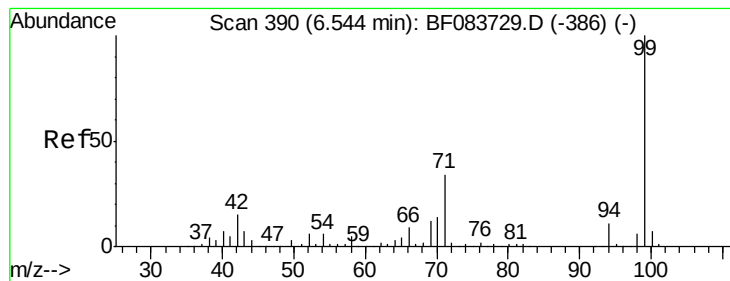
Tgt Ion:152 Resp: 99303
 Ion Ratio Lower Upper
 152 100
 150 159.5 126.5 189.7
 115 70.2 52.3 78.5



#5
 2-Fluorophenol
 Concen: 24.71 ng
 RT: 5.50 min Scan# 299
 Delta R.T. -0.02 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

Tgt Ion:112 Resp: 152094
 Ion Ratio Lower Upper
 112 100
 64 45.3 50.5 75.7#
 63 22.3 25.8 38.6#





#7

Phenol-d6

Concen: 22.80 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

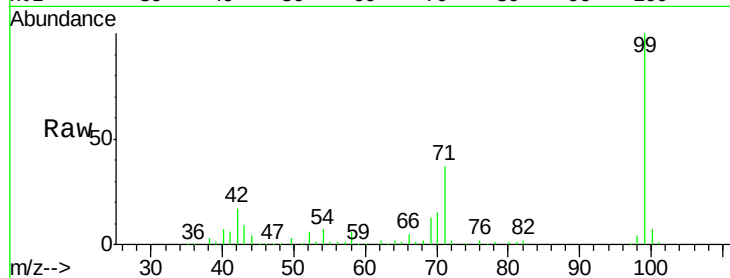
Tgt Ion: 99 Resp: 177705

Ion Ratio Lower Upper

99 100

42 16.7 17.3 25.9#

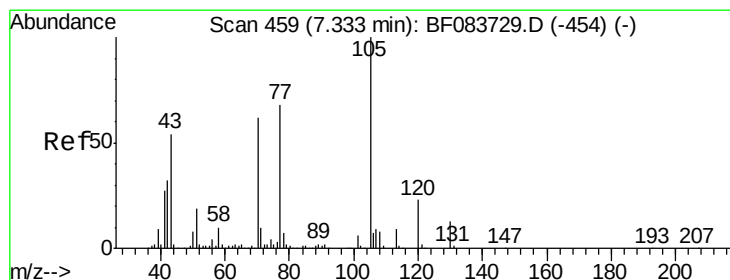
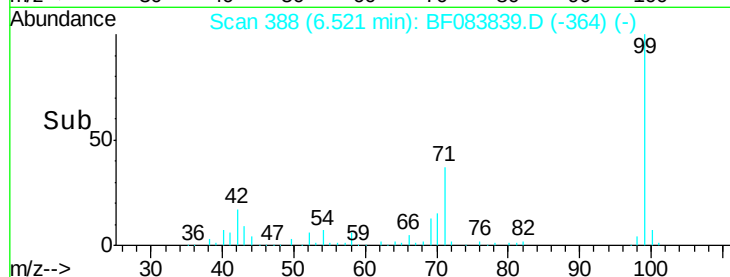
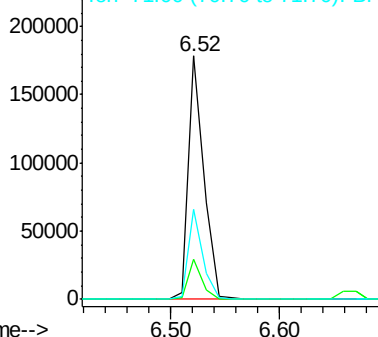
71 37.0 26.6 40.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.27 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.11 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Tgt Ion: 70 Resp: 15630

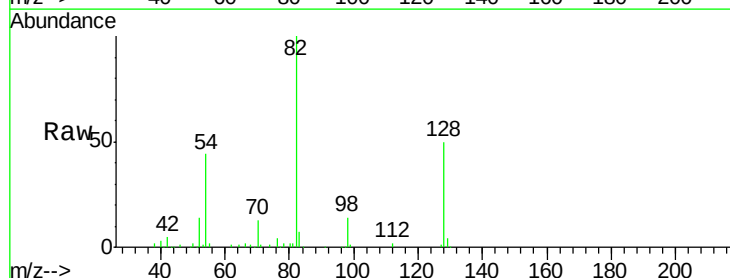
Ion Ratio Lower Upper

70 100

42 38.9 49.2 73.8#

101 0.0 7.1 10.7#

130 2.6 15.4 23.0#

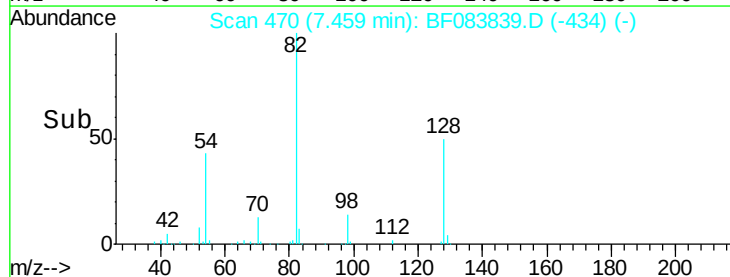
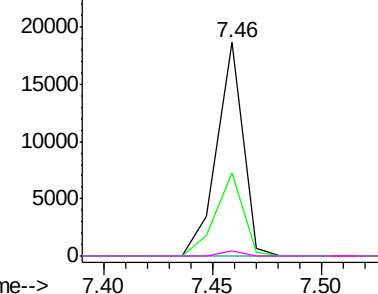


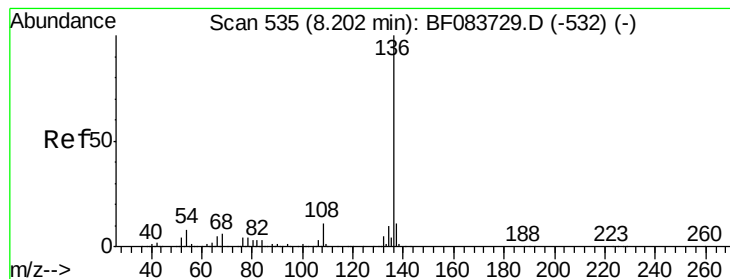
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

Tgt Ion: 136 Resp: 410461

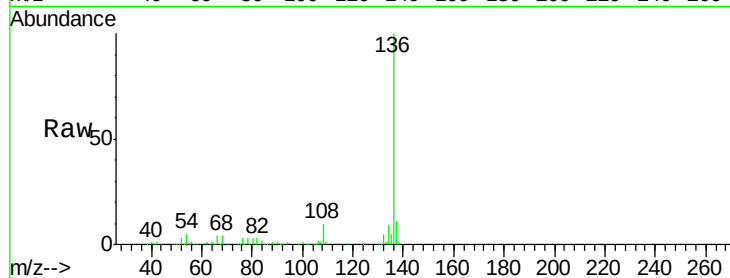
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 5.0 7.8 11.6#

68 4.5 5.7 8.5#

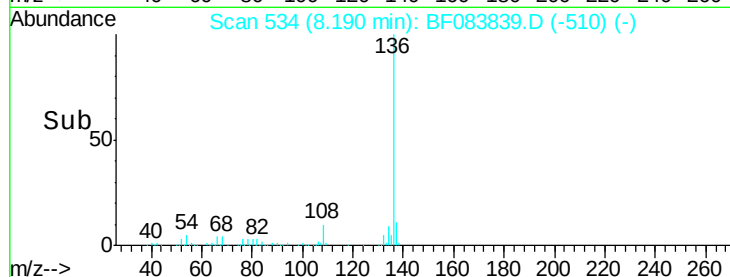


Abundance Ion 136.00 (135.70 to 136.70): E

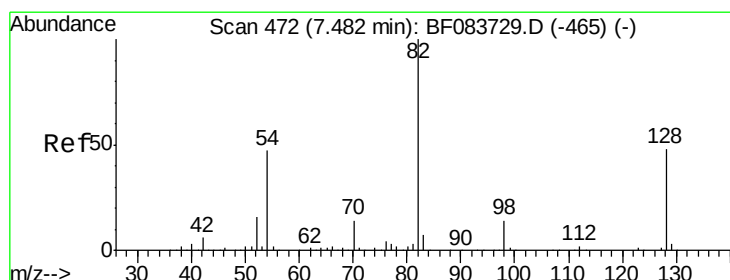
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 15.94 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

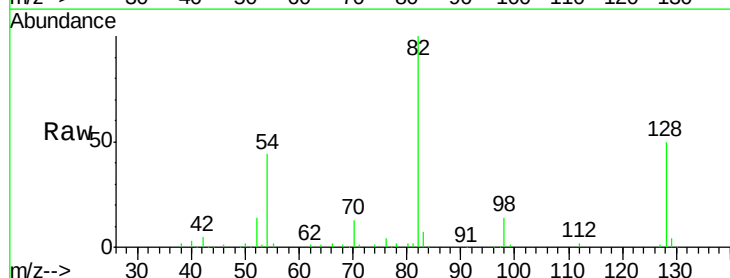
Tgt Ion: 82 Resp: 116965

Ion Ratio Lower Upper

82 100

128 50.0 30.7 46.1#

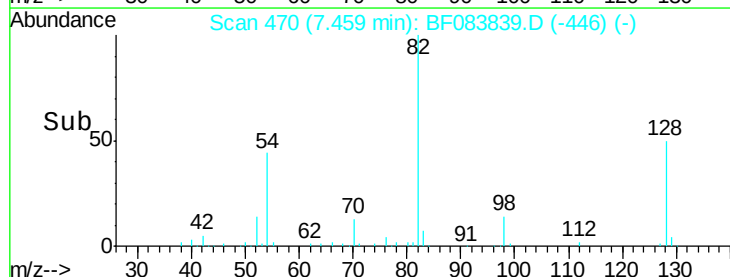
54 44.4 42.5 63.7



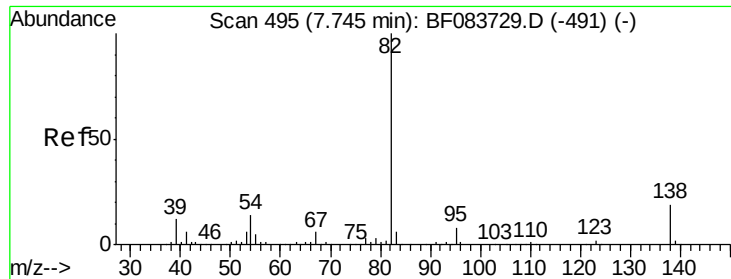
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->



#25

Isophorone

Concen: 7.07 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.29 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

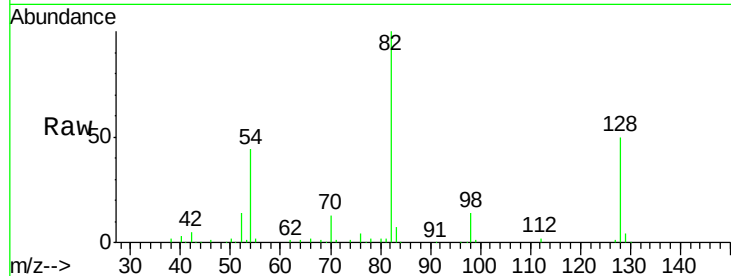
Tgt Ion: 82 Resp: 101742

Ion Ratio Lower Upper

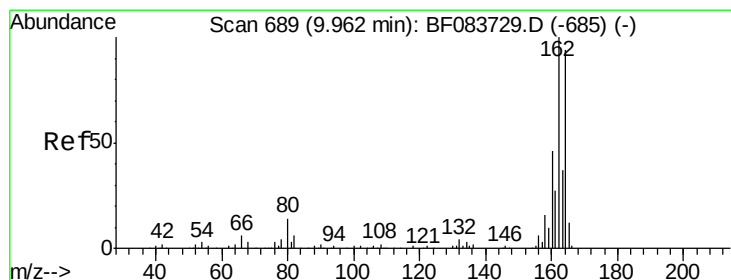
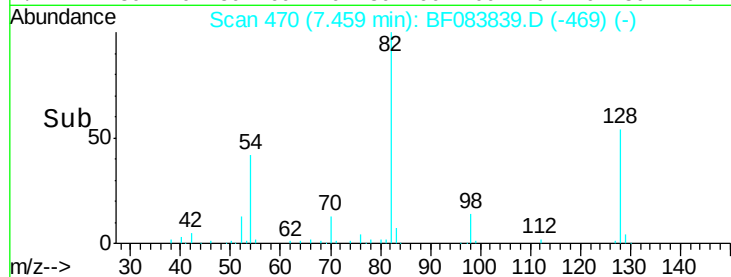
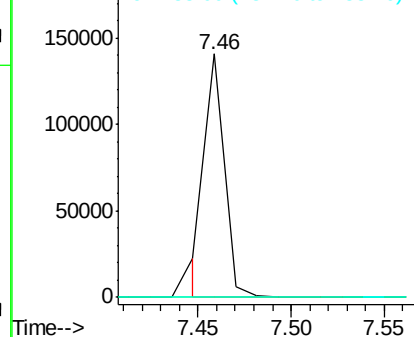
82 100

95 0.0 5.0 7.4#

138 0.0 12.1 18.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

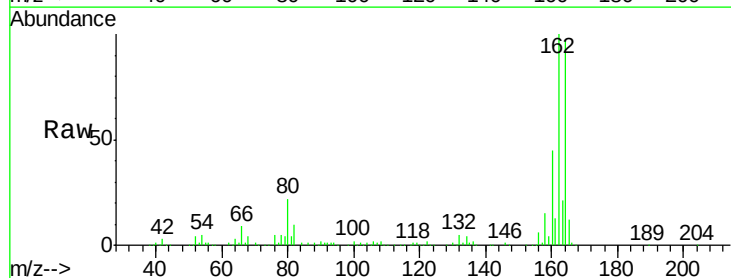
Tgt Ion: 164 Resp: 177645

Ion Ratio Lower Upper

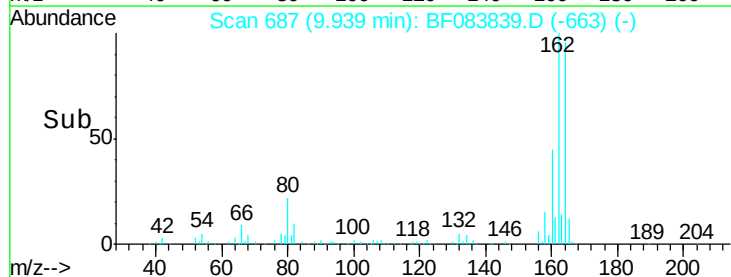
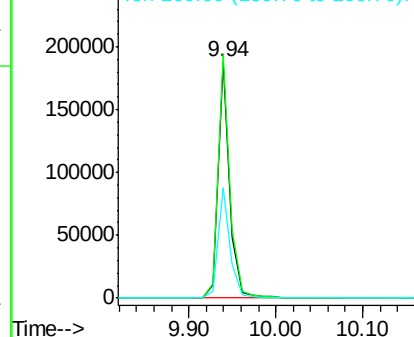
164 100

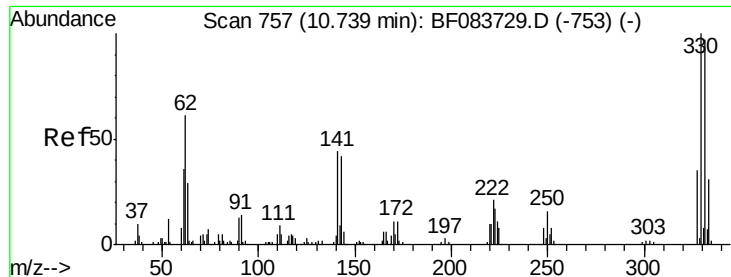
162 103.0 78.8 118.2

160 46.8 33.4 50.2



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

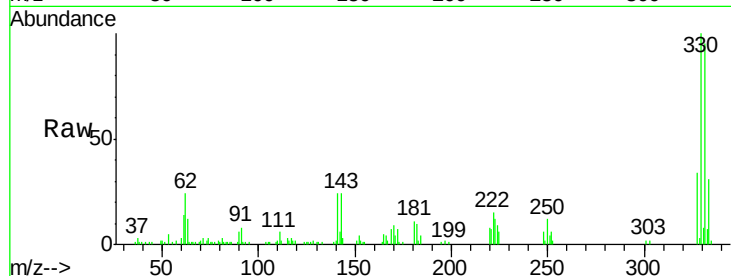




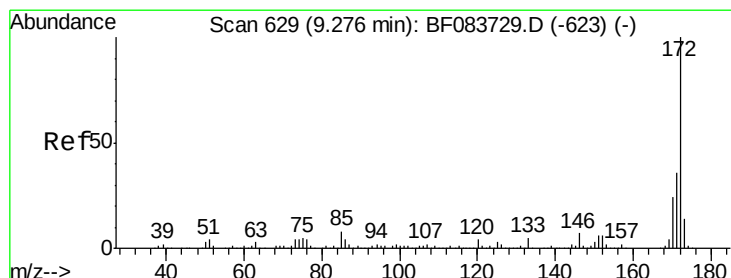
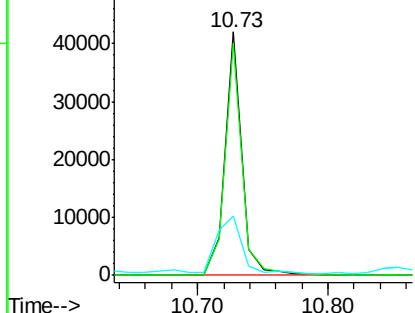
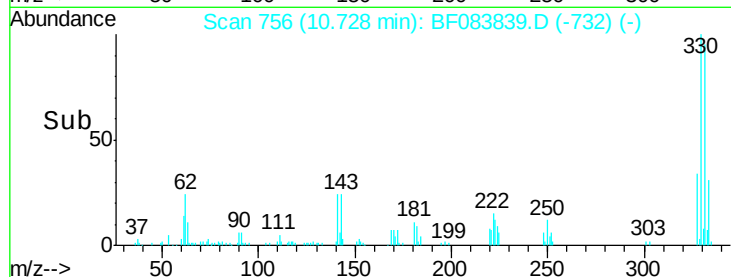
#41
 2,4,6-Tribromophenol
 Concen: 21.00 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

Instrument :
 BNA_F
 ClientSampleId :
 K206-0-2DL

Tgt Ion:330 Resp: 38021
 Ion Ratio Lower Upper
 330 100
 332 95.9 0.0 0.0#
 141 41.3 0.0 0.0#

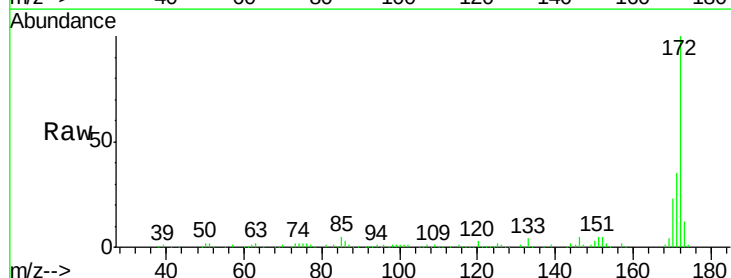


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

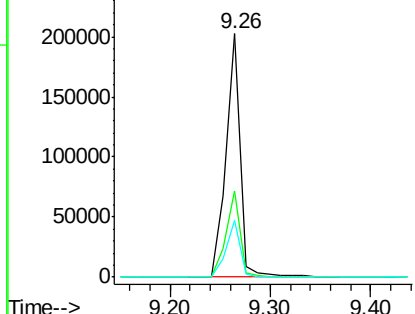
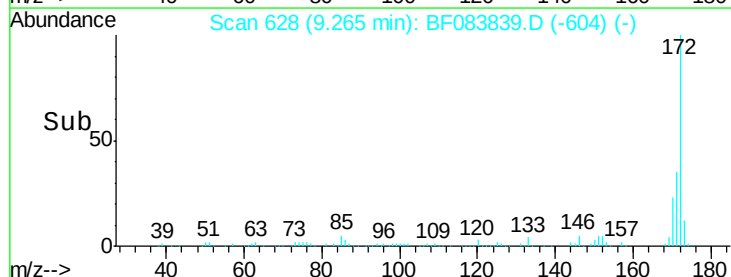


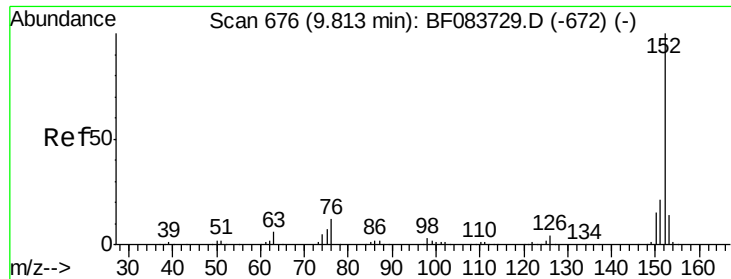
#44
 2-Fluorobiphenyl
 Concen: 13.72 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

Tgt Ion:172 Resp: 198743
 Ion Ratio Lower Upper
 172 100
 171 35.2 28.6 42.8
 170 23.2 19.4 29.0



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





#48

Acenaphthylene

Concen: 7.79 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

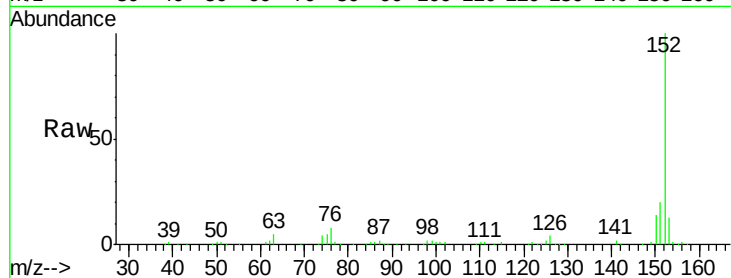
Tgt Ion:152 Resp: 152229

Ion Ratio Lower Upper

152 100

151 20.0 16.3 24.5

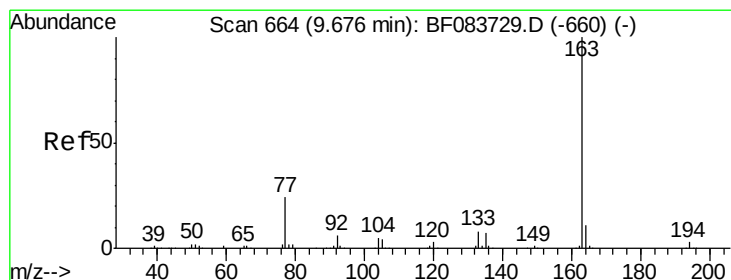
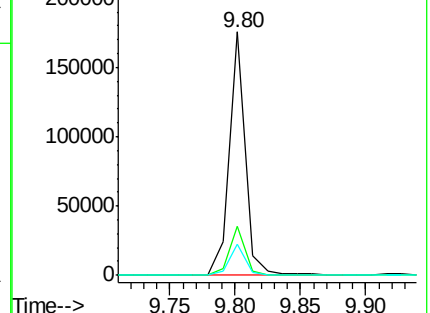
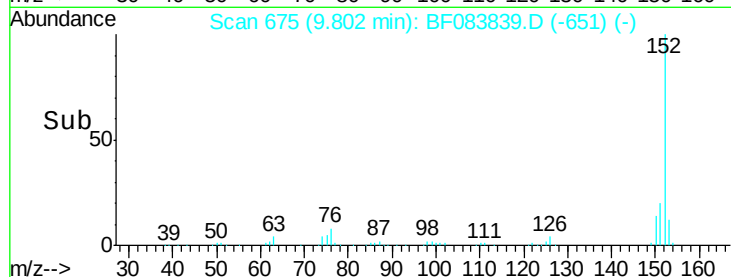
153 13.0 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.77 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

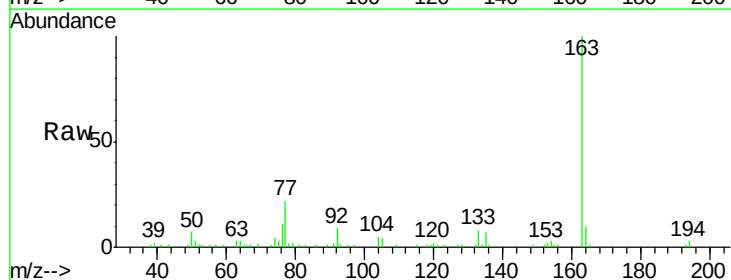
Tgt Ion:163 Resp: 52240

Ion Ratio Lower Upper

163 100

194 3.4 2.8 4.2

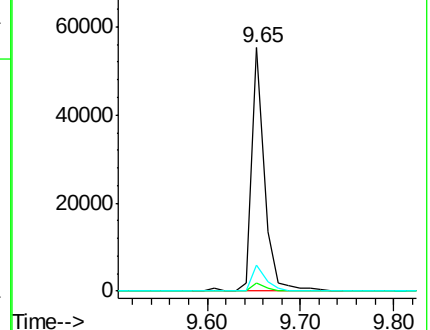
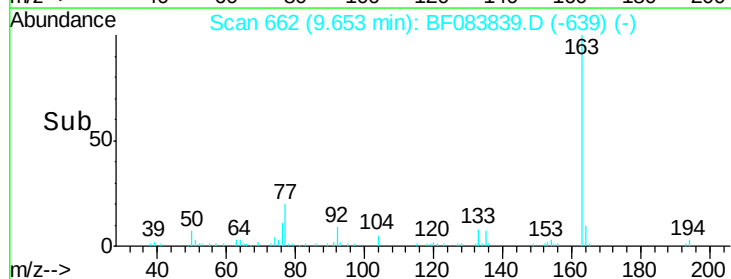
164 10.4 8.6 13.0

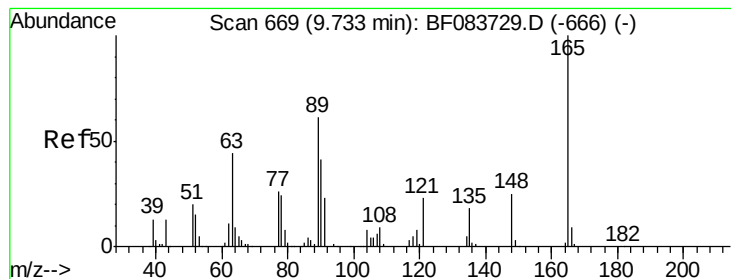


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

2,6-Dinitrotoluene

Concen: 7.80 ng

RT: 9.94 min Scan# 687

Delta R.T. 0.19 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

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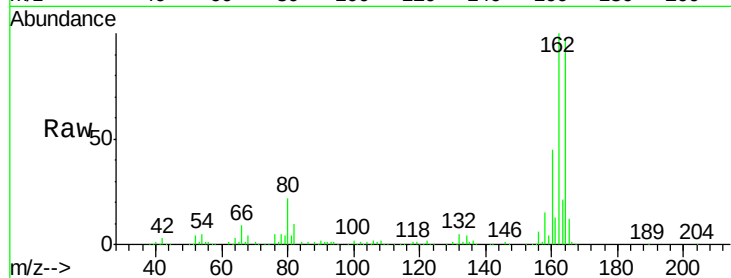
Tgt Ion:165 Resp: 22938

Ion Ratio Lower Upper

165 100

63 1.8 56.9 85.3#

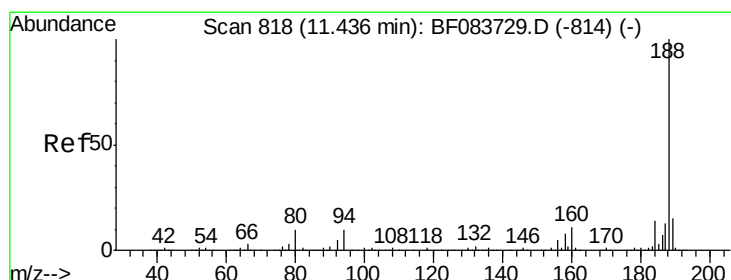
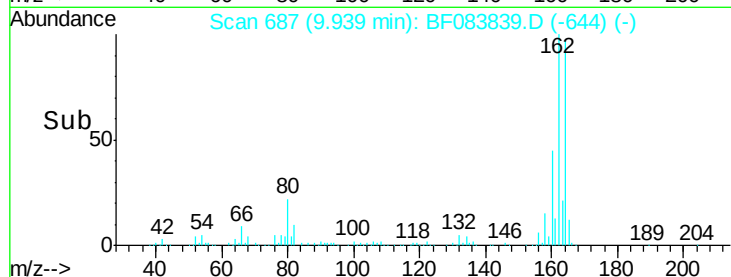
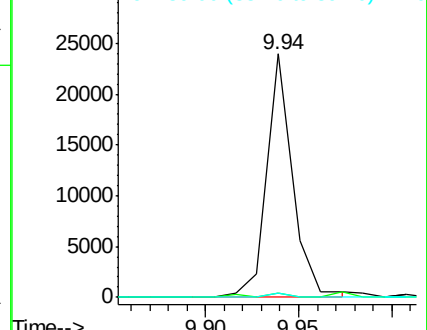
89 2.0 52.1 78.1#



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

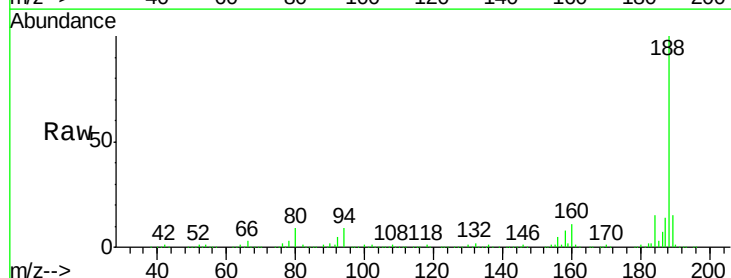
Tgt Ion:188 Resp: 294235

Ion Ratio Lower Upper

188 100

94 9.0 9.4 14.2#

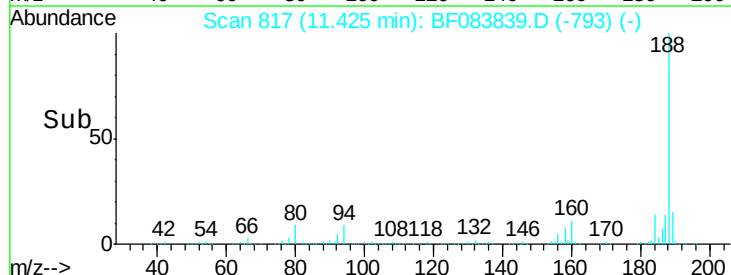
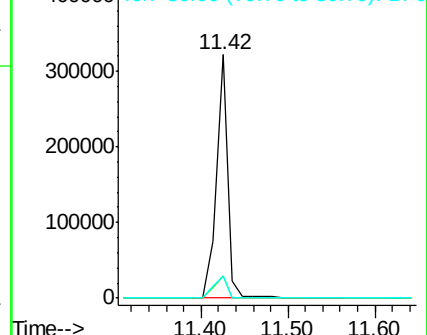
80 9.2 10.6 16.0#

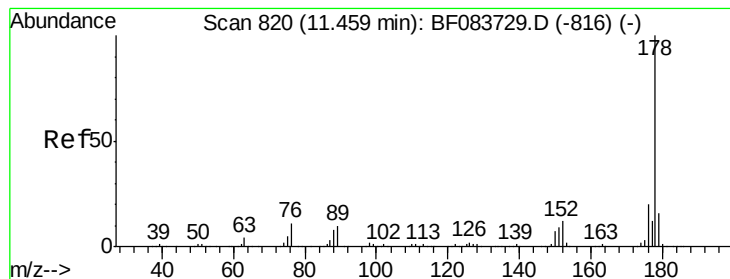


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 19.61 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

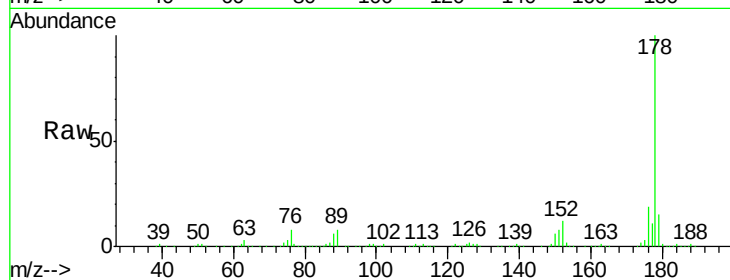
Tgt Ion:178 Resp: 306471

Ion Ratio Lower Upper

178 100

176 18.8 15.7 23.5

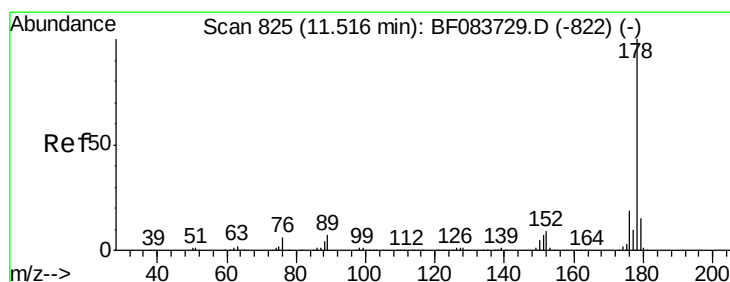
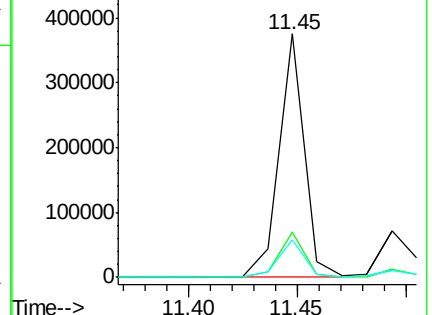
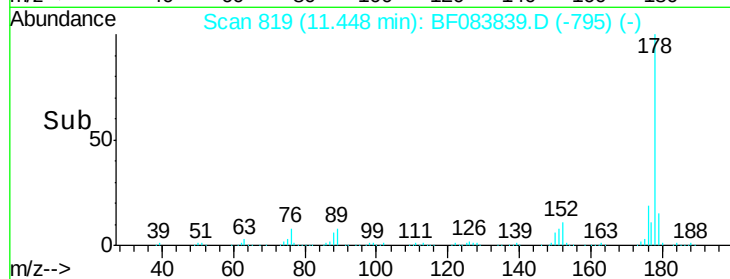
179 15.3 12.2 18.4



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



#71

Anthracene

Concen: 4.88 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

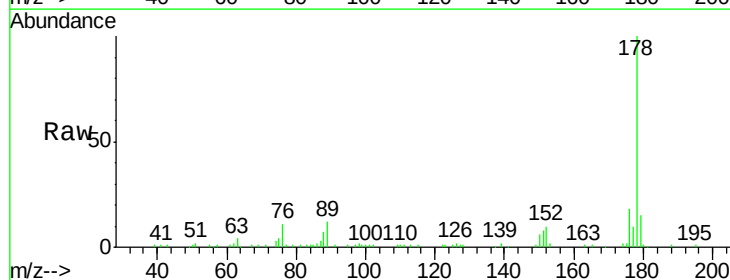
Tgt Ion:178 Resp: 79261

Ion Ratio Lower Upper

178 100

176 17.5 15.2 22.8

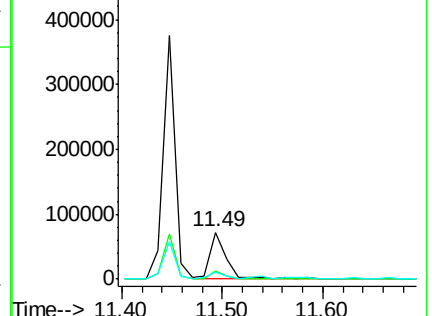
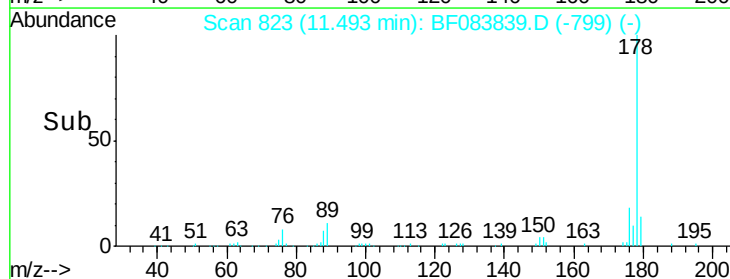
179 14.9 12.6 18.8

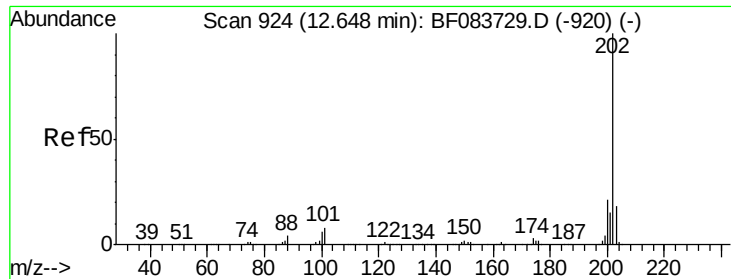


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 30.52 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

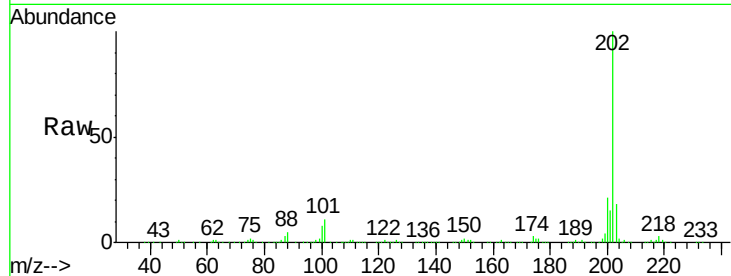
Tgt Ion:202 Resp: 493004

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.5

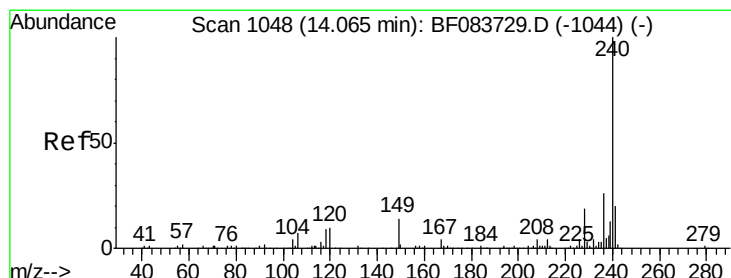
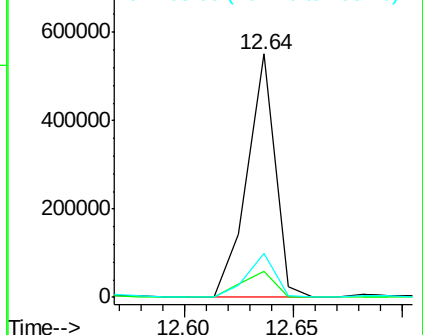
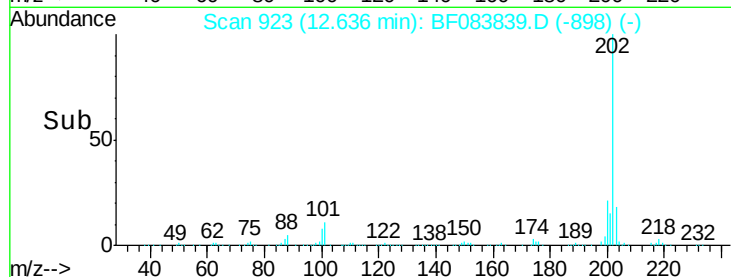
203 18.1 0.0 37.6



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: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

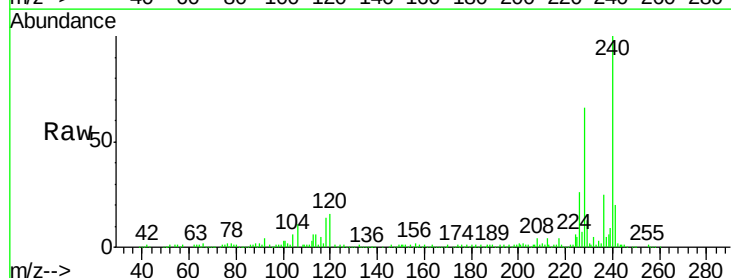
Tgt Ion:240 Resp: 209332

Ion Ratio Lower Upper

240 100

120 15.9 8.1 12.1#

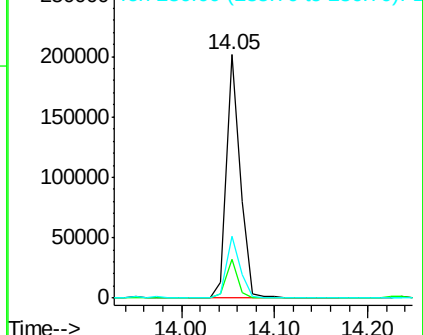
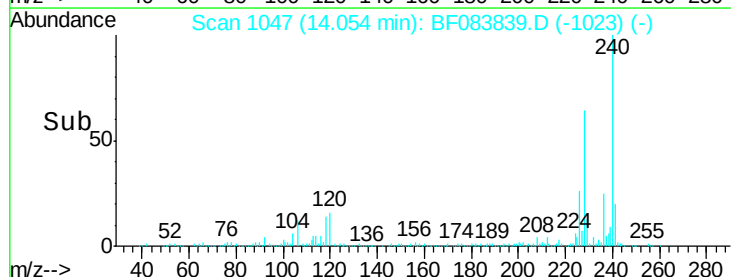
236 25.3 20.8 31.2

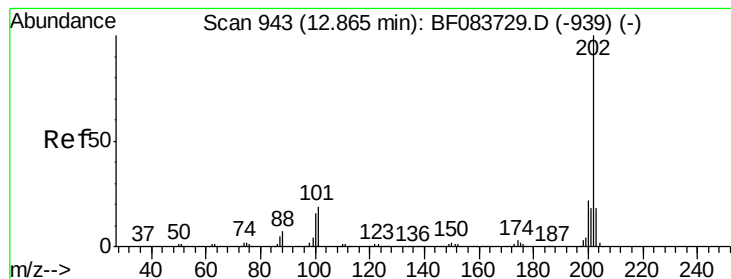


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 43.63 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

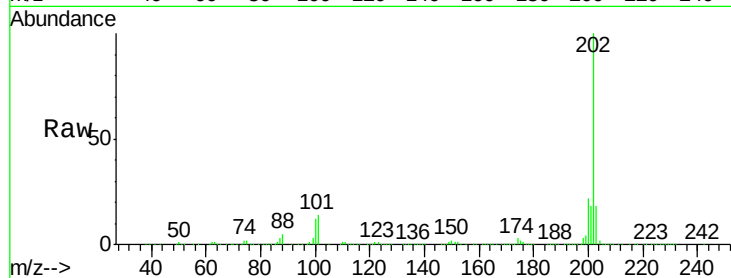
Tgt Ion:202 Resp: 721872

Ion Ratio Lower Upper

202 100

200 22.2 16.7 25.1

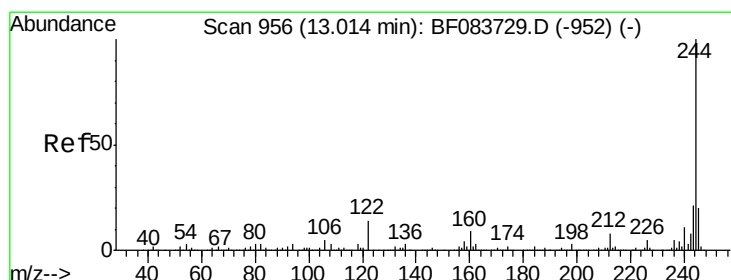
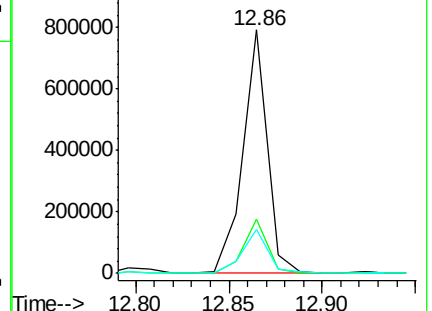
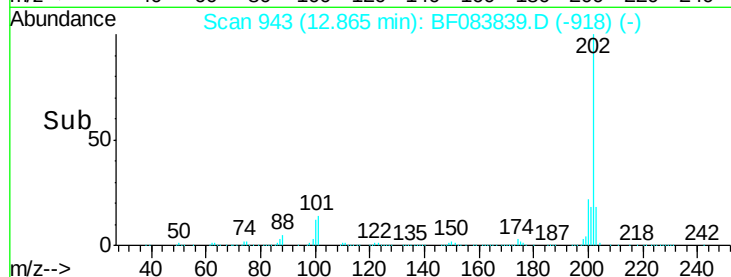
203 18.2 14.3 21.5



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: 13.77 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

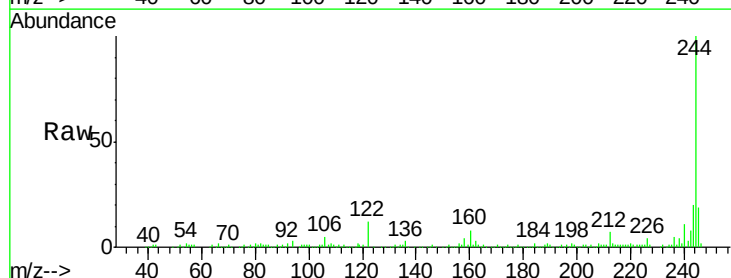
Tgt Ion:244 Resp: 134023

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

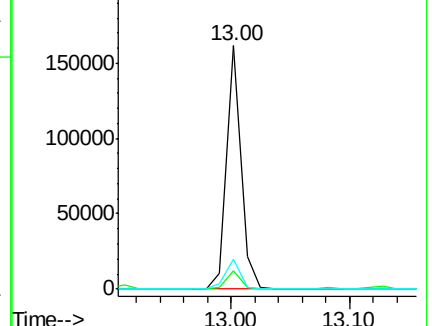
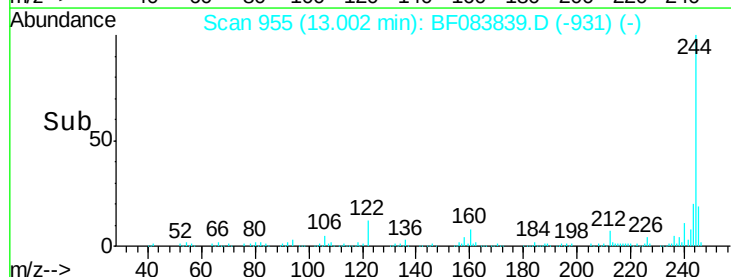
122 12.4 11.0 16.6

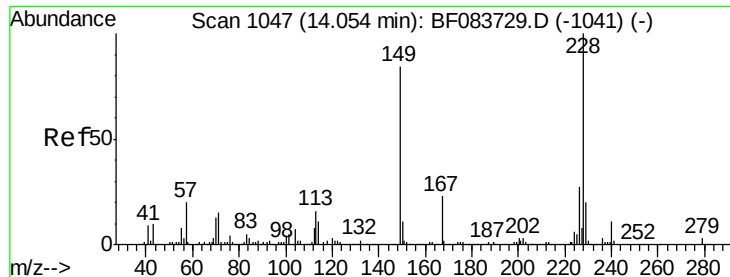


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 19.70 ng

RT: 14.08 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampled :

K206-0-2DL

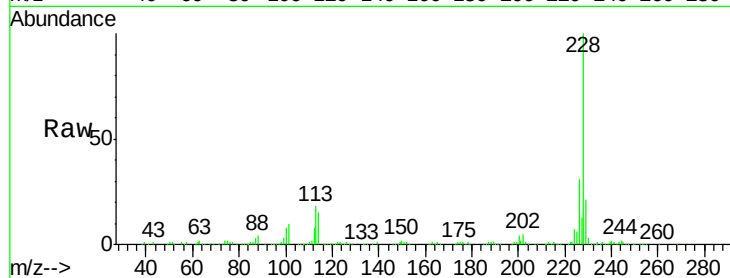
Tgt Ion:228 Resp: 234523

Ion Ratio Lower Upper

228 100

226 30.5 22.3 33.5

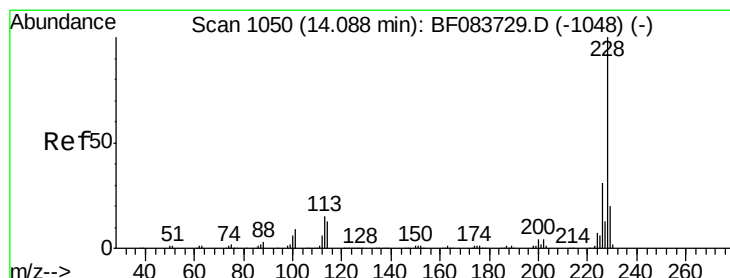
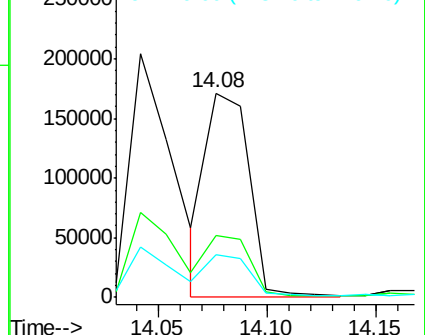
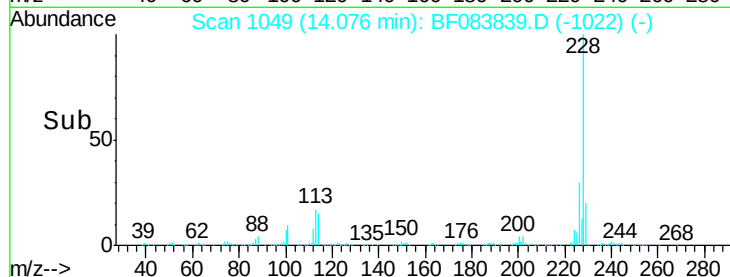
229 21.2 15.7 23.5



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



#82

Chrysene

Concen: 20.20 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

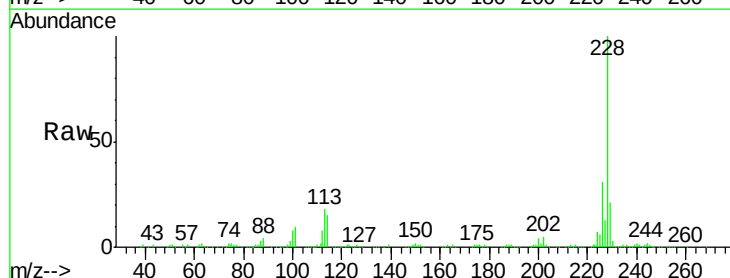
Tgt Ion:228 Resp: 234558

Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

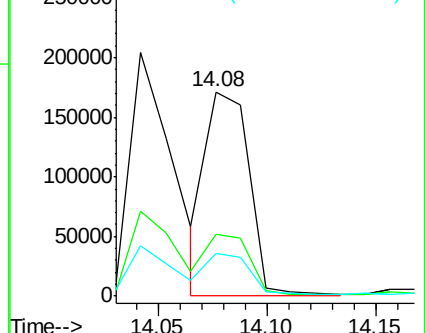
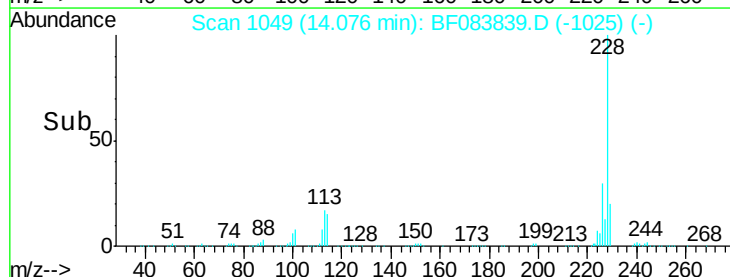
229 21.2 16.3 24.5

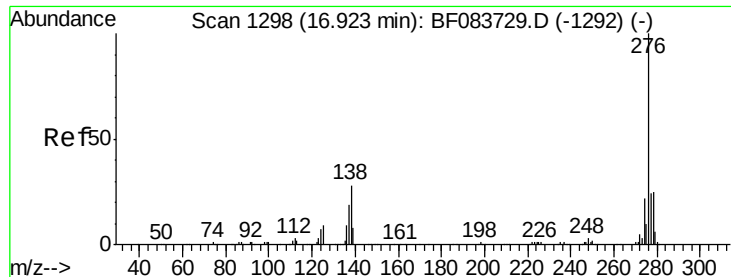


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

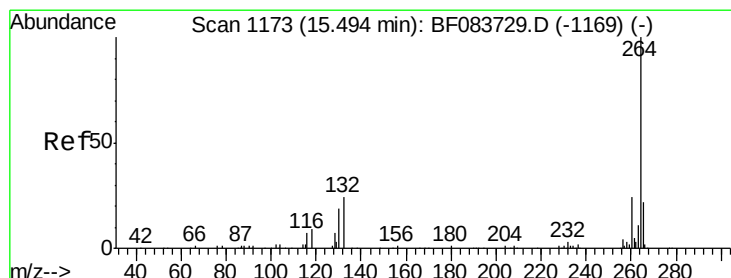
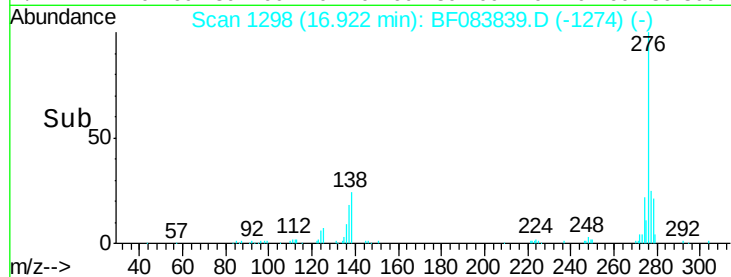
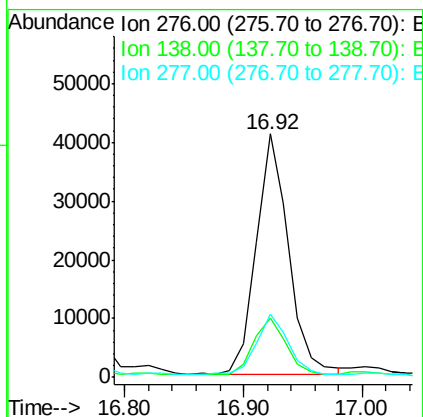
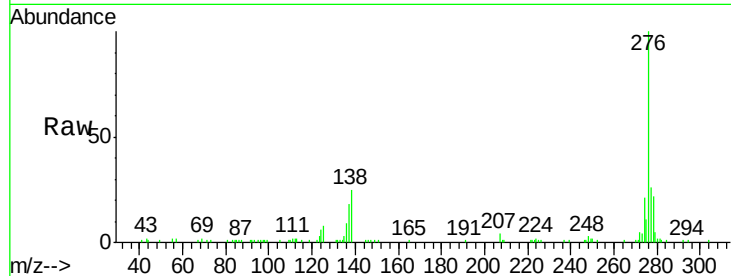




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.76 ng
 RT: 16.92 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

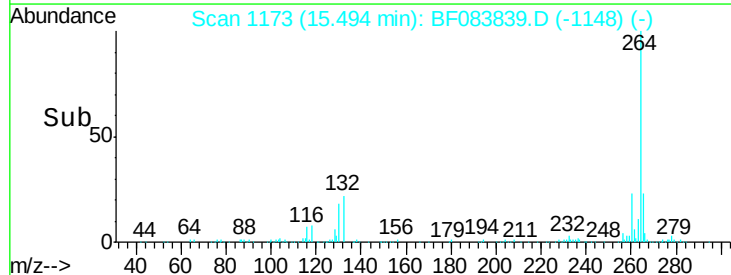
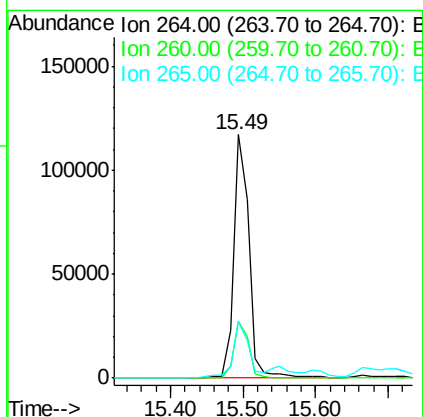
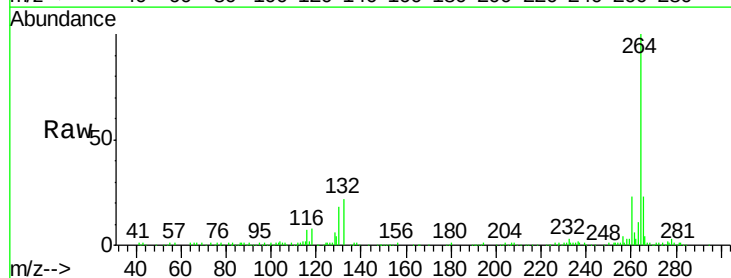
Instrument :
 BNA_F
 ClientSampleId :
 K206-0-2DL

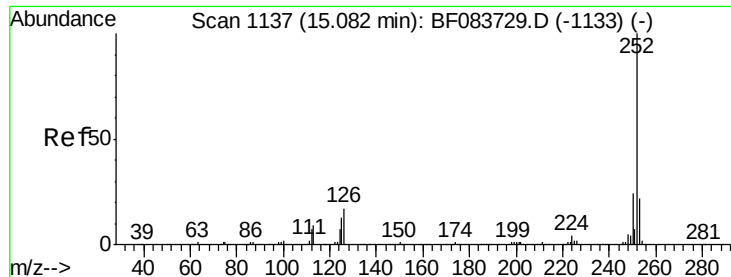
Tgt Ion: 276 Resp: 77081
 Ion Ratio Lower Upper
 276 100
 138 24.2 0.0 0.0#
 277 25.3 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: BF083839.D
 Acq: 16 Dec 2015 3:14

Tgt Ion: 264 Resp: 170576
 Ion Ratio Lower Upper
 264 100
 260 23.1 19.4 29.0
 265 23.1 17.8 26.6

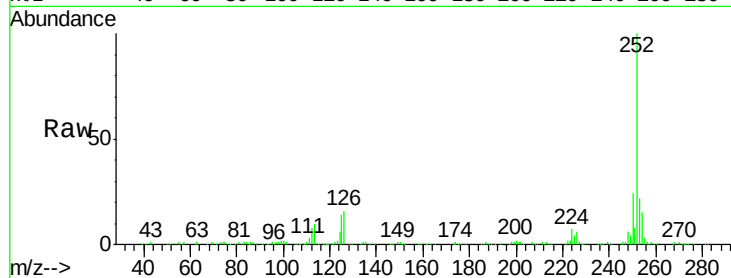




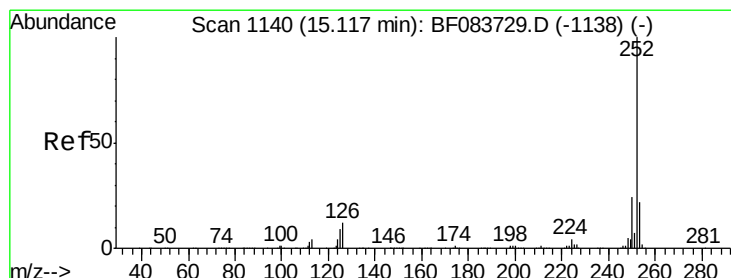
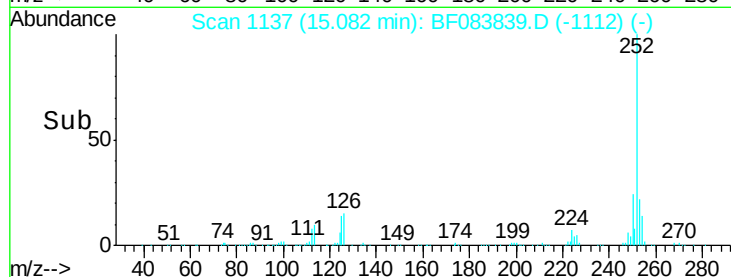
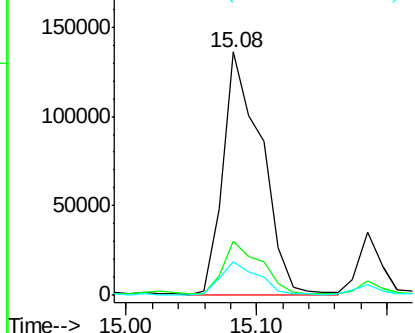
#87
Benzo(b)fluoranthene
Concen: 25.52 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF083839.D
Acq: 16 Dec 2015 3:14

Instrument :
BNA_F
ClientSampleId :
K206-0-2DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	14.0	8.2	12.4#

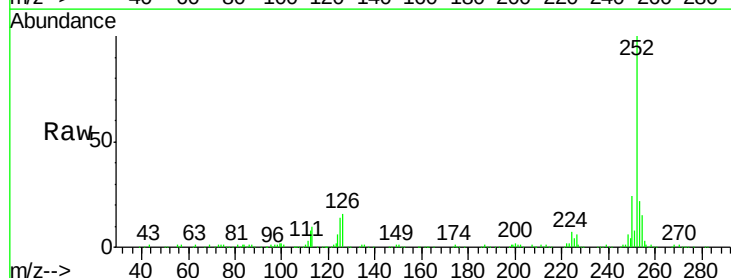


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

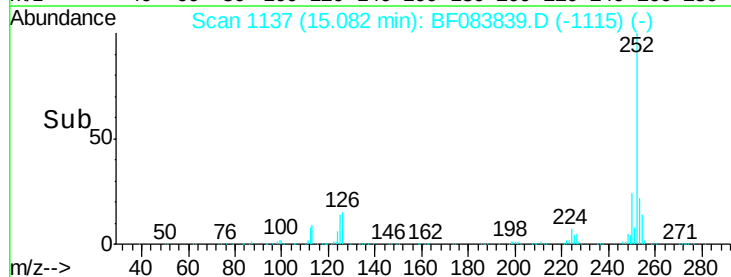
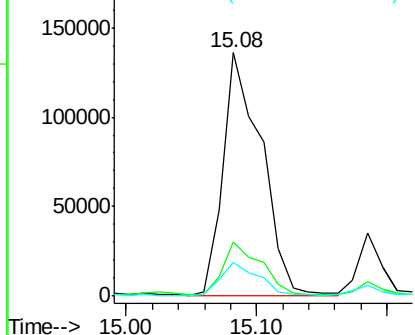


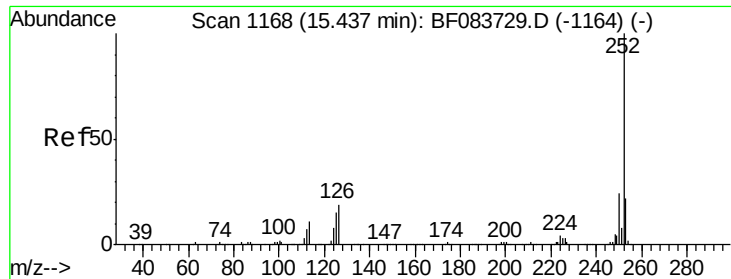
#88
Benzo(k)fluoranthene
Concen: 28.16 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.05 min
Lab File: BF083839.D
Acq: 16 Dec 2015 3:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.6	27.8
125	14.0	11.5	17.3



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: 11.46 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

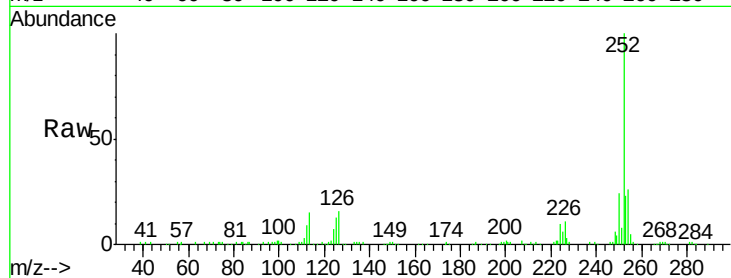
Tgt Ion:252 Resp: 111276

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

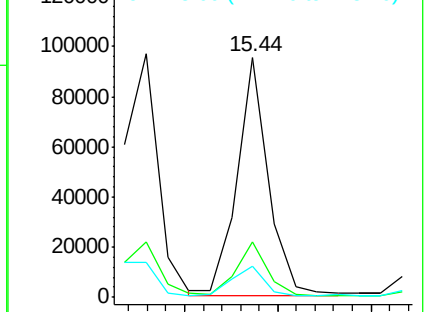
125 13.0 11.0 16.6



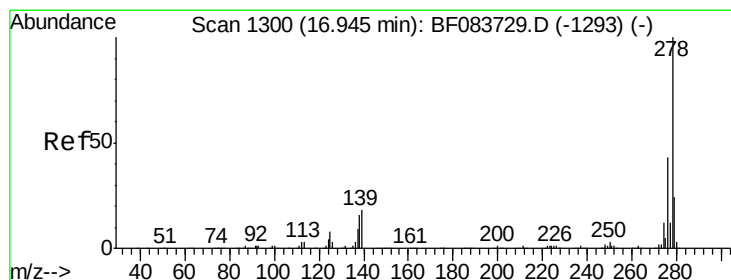
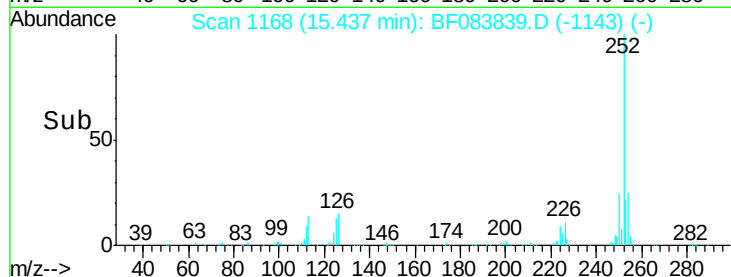
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#90

Dibenzo(a,h)anthracene

Concen: 2.40 ng

RT: 16.93 min Scan# 1299

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

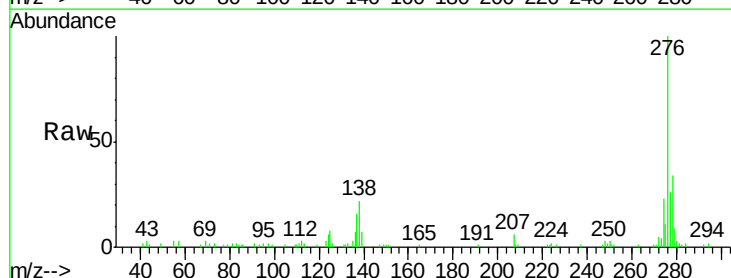
Tgt Ion:278 Resp: 23209

Ion Ratio Lower Upper

278 100

139 19.4 12.8 19.2#

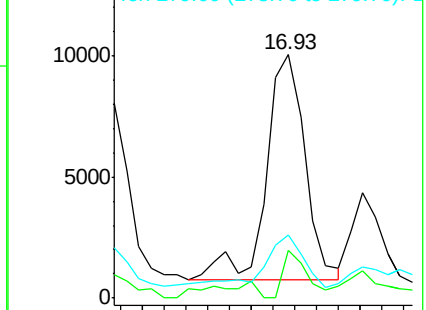
279 26.0 18.6 28.0



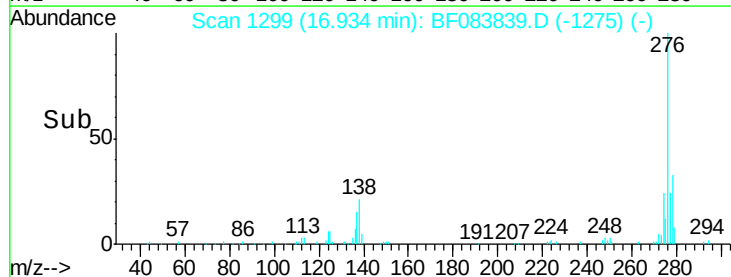
Abundance Ion 278.00 (277.70 to 278.70): E

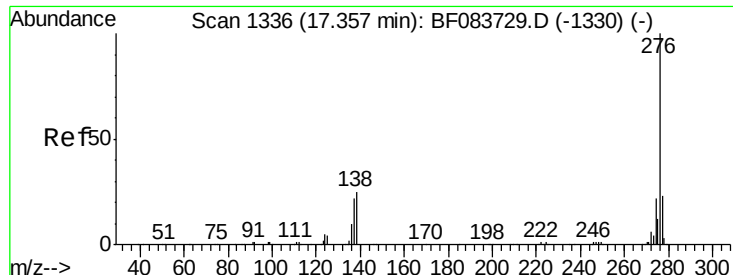
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#91

Benzo(g,h,i)perylene

Concen: 8.10 ng

RT: 17.36 min Scan# 1336

Delta R.T. -0.02 min

Lab File: BF083839.D

Acq: 16 Dec 2015 3:14

Instrument :

BNA_F

ClientSampleId :

K206-0-2DL

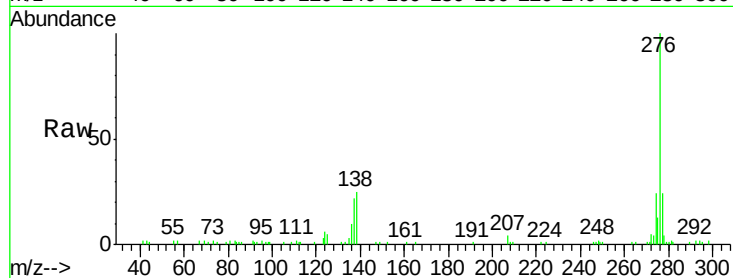
Tgt Ion: 276 Resp: 80410

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 24.7 19.5 29.3



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

