

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 :
 DUP3-112415

Quant Time: Dec 03 17:29:21 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
49) Dimethylphthalate	9.30	163	689544	23.46	ng	99
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	709278m	28.74	ng	
88) Benzo(k)fluoranthene	16.29	252	252407m	10.83	ng	
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(a,h,i)perylene	18.52	276	431231	23.79	ng	# 95

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

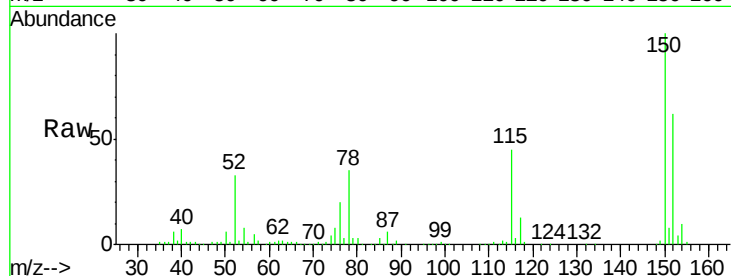


#1

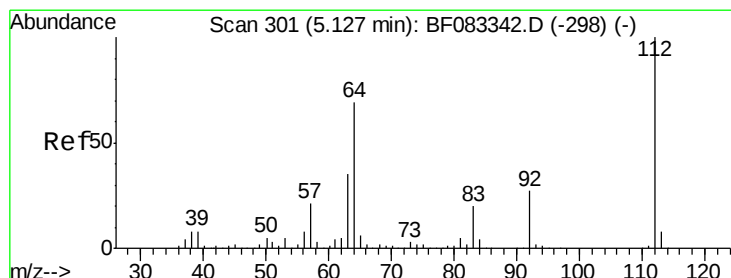
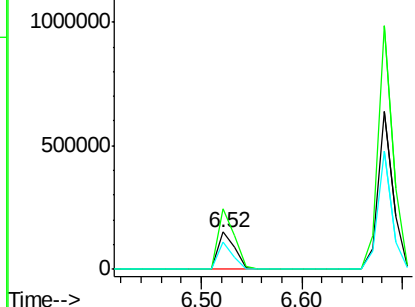
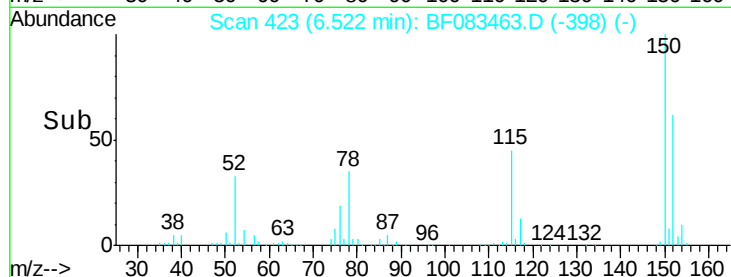
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.52 min Scan# 423
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Instrument :
BNA_F
ClientSampleId :
DUP3-112415

Tot Ion:152 Resp: 174052
Ion Ratio Lower Upper
152 100
150 161.5 129.8 194.8
115 72.1 59.2 88.8



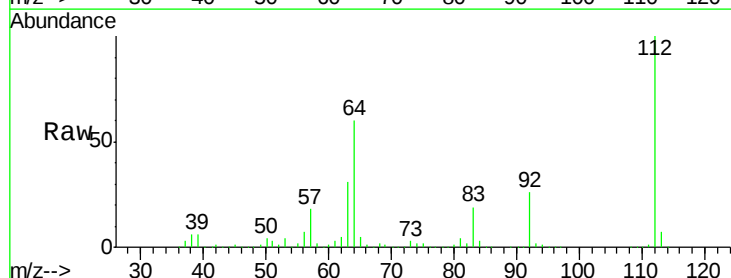
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



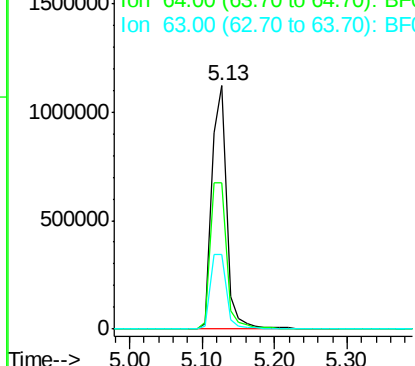
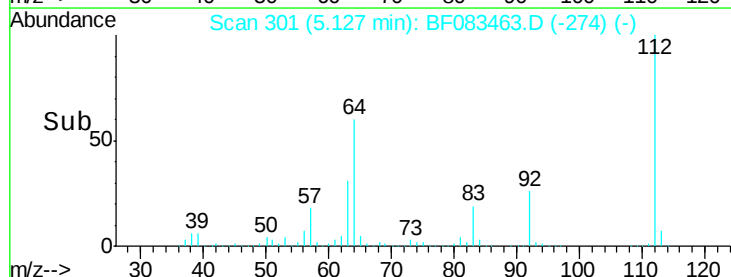
#5

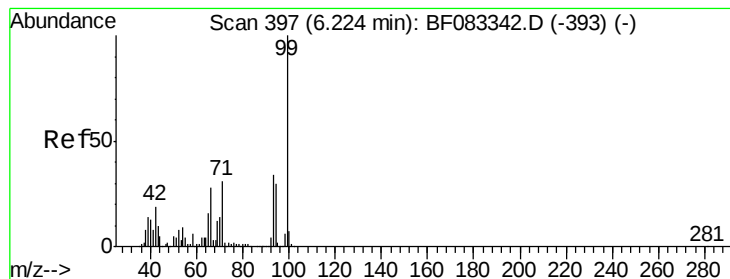
2-Fluorophenol
Concen: 137.95 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

Tgt Ion:112 Resp: 1600057
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 :

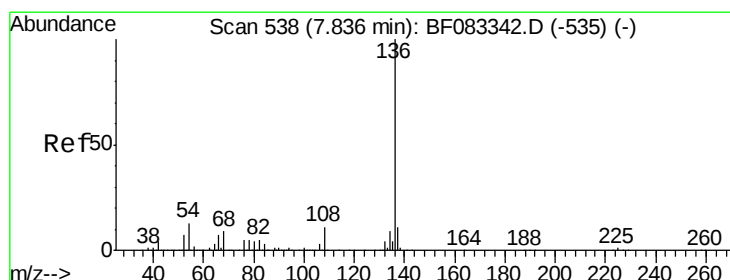
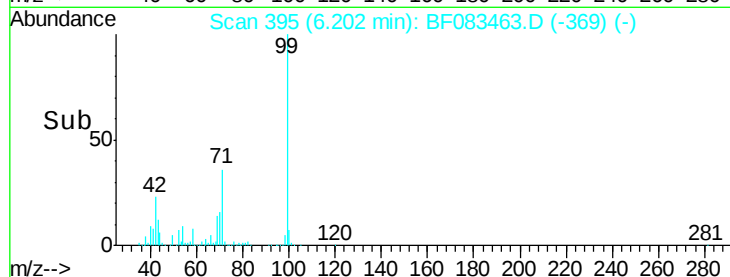
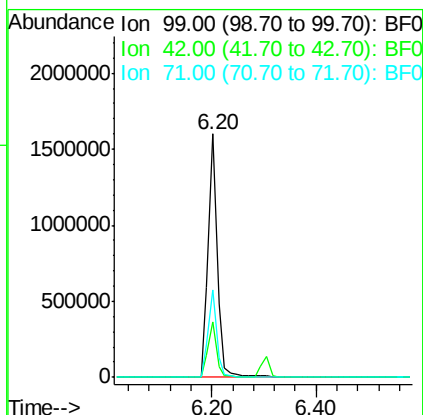
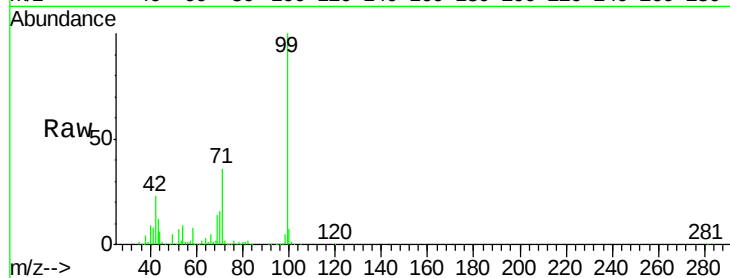
BNA_F

ClientSampleId :

DUP3-112415

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.81 min Scan# 536

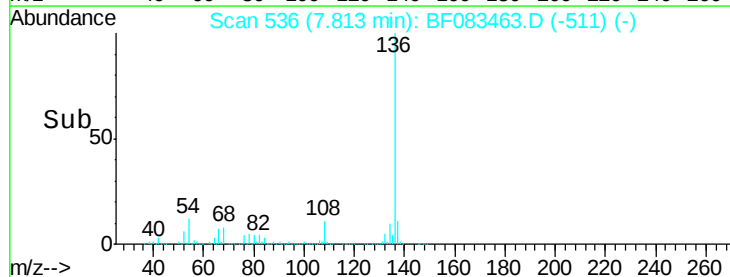
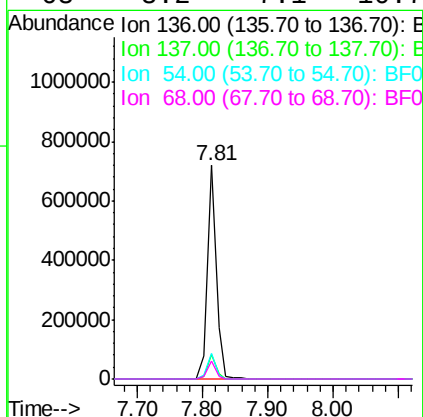
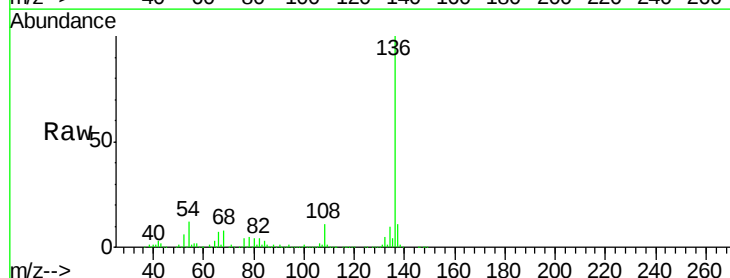
Delta R.T. -0.01 min

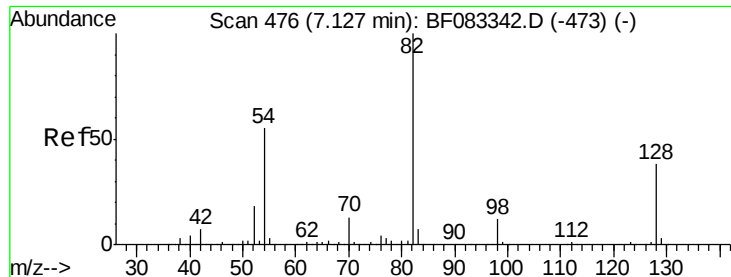
Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Tgt 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





#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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

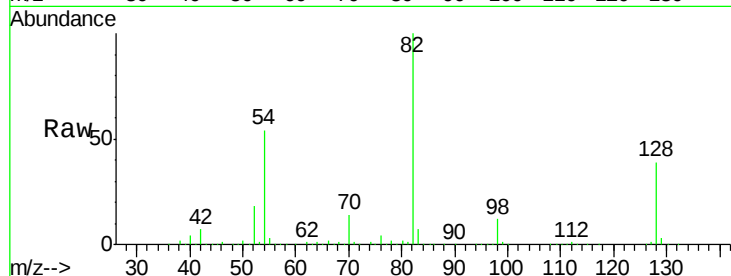
Tot Ion: 82 Resp: 1419689

Ion Ratio Lower Upper

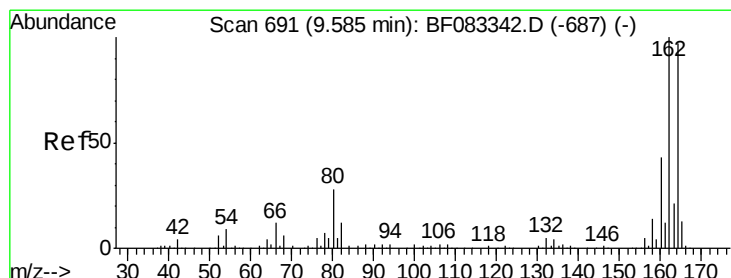
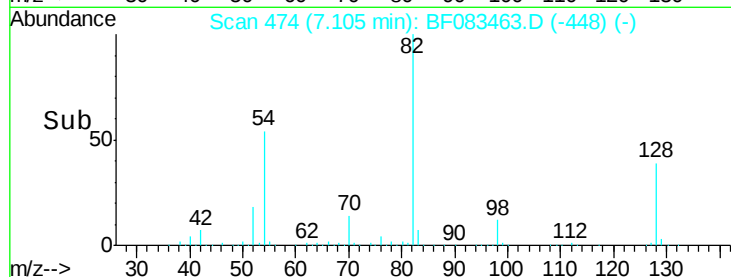
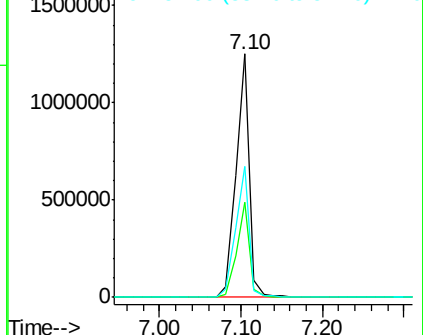
82 100

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

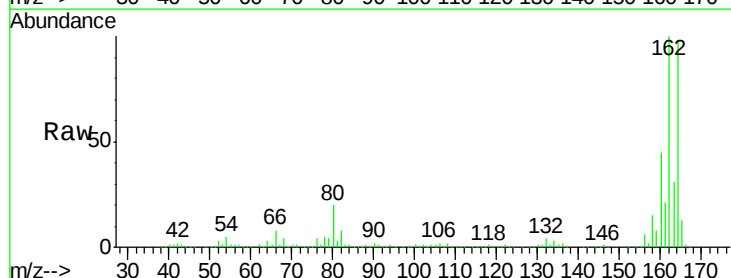
Tgt Ion:164 Resp: 361694

Ion Ratio Lower Upper

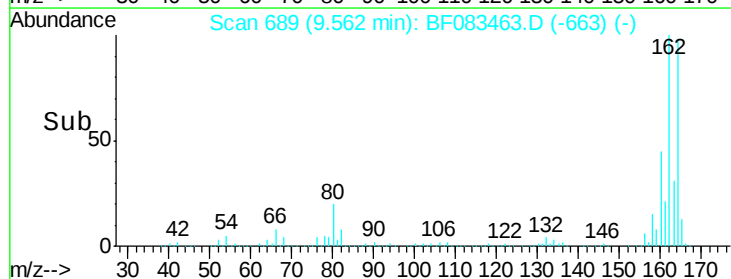
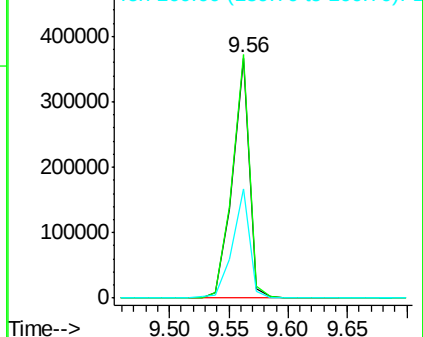
164 100

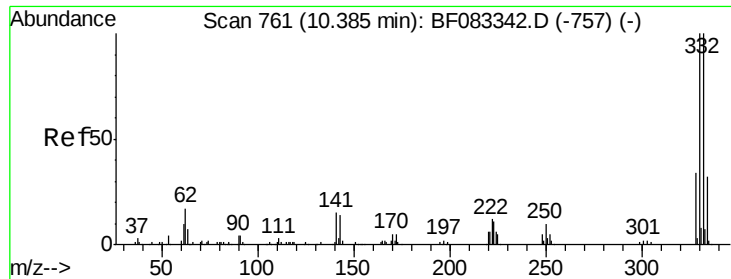
162 101.5 82.6 123.8

160 45.4 35.3 52.9



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

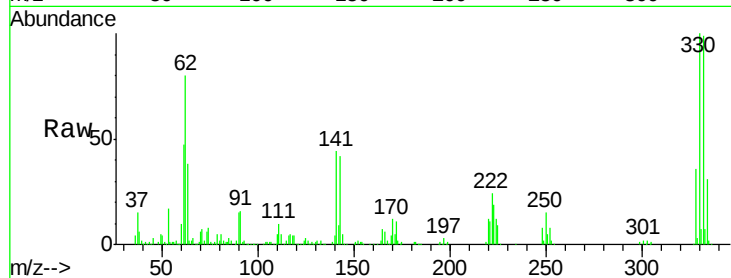




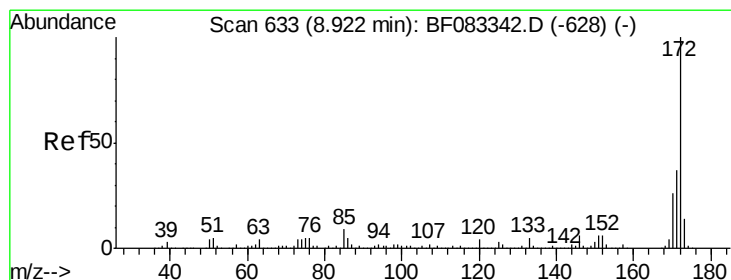
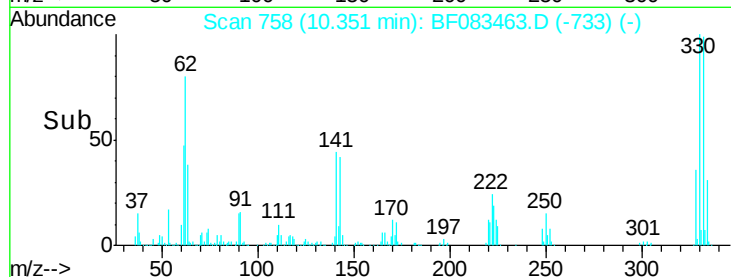
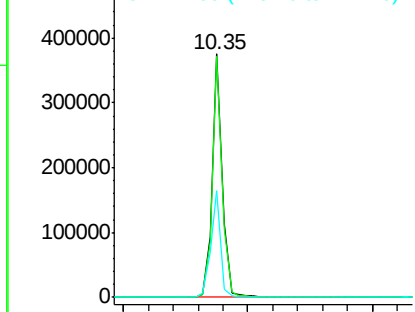
#41
 2,4,6-Tribromophenol
 Concen: 114.75 ng
 RT: 10.35 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Instrument :
 BNA_F
 ClientSampleId :
 DUP3-112415

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.8	116.6
141	43.3	29.4	44.0

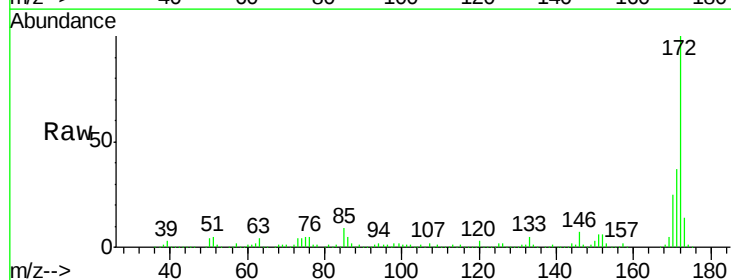


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

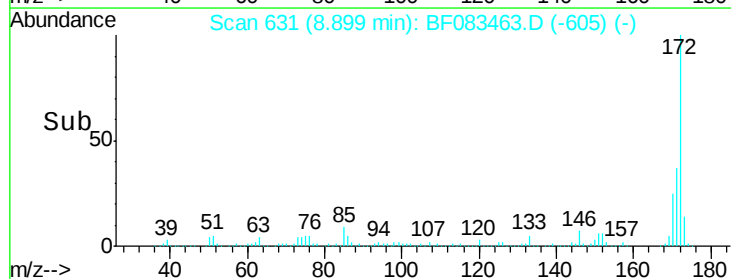
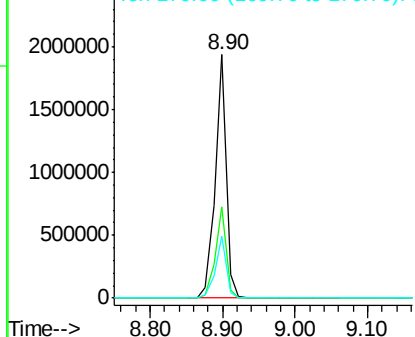


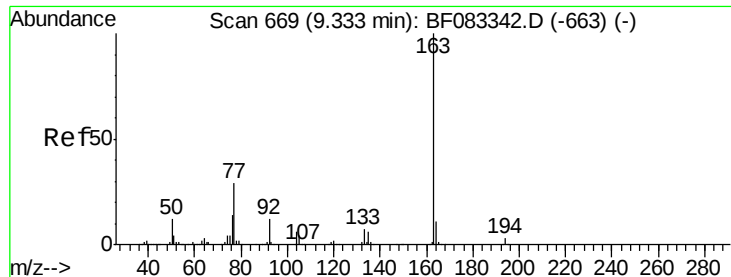
#44
 2-Fluorobiphenyl
 Concen: 80.45 ng
 RT: 8.90 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

Tgt 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

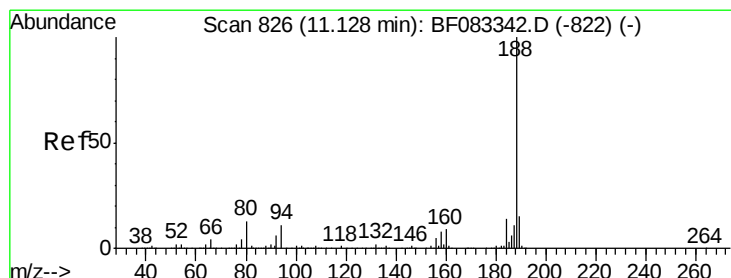
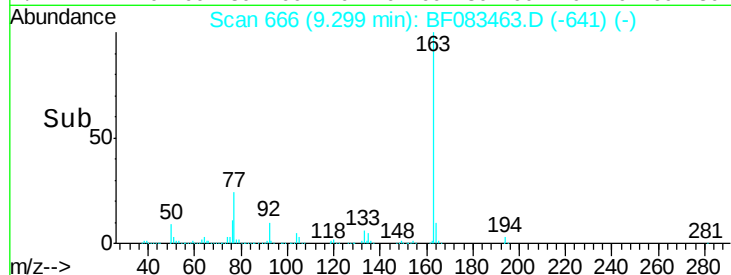
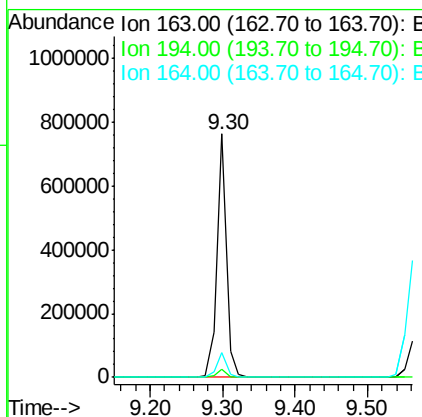
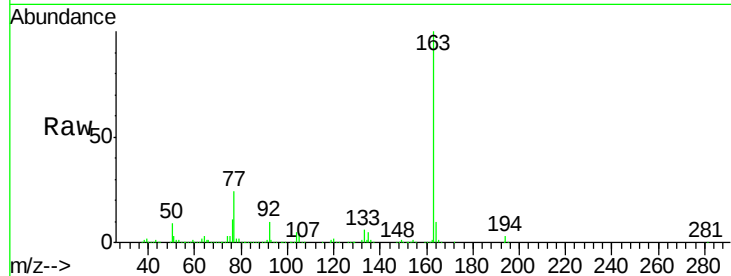




#49
Dimethylphthalate
Concen: 23.46 ng
RT: 9.30 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF083463.D
Acq: 3 Dec 2015 16:40

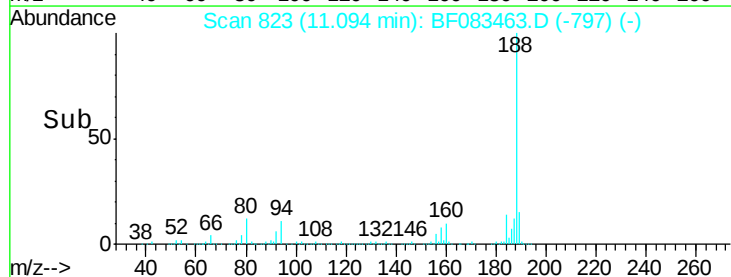
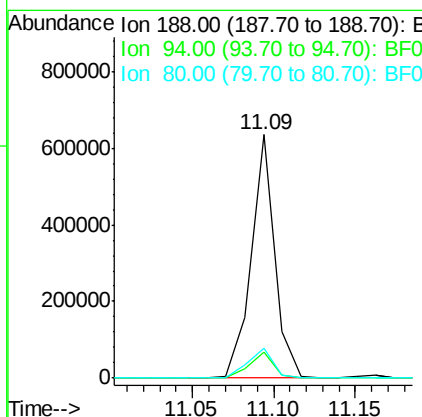
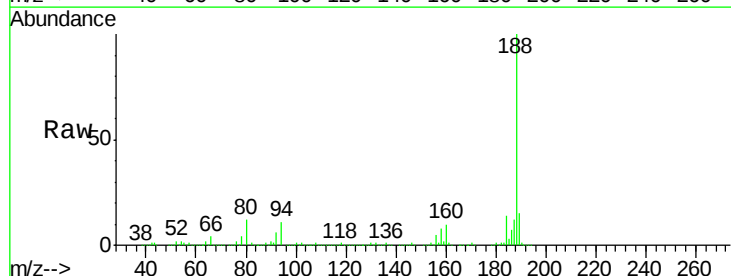
Instrument :
BNA_F
ClientSampleId :
DUP3-112415

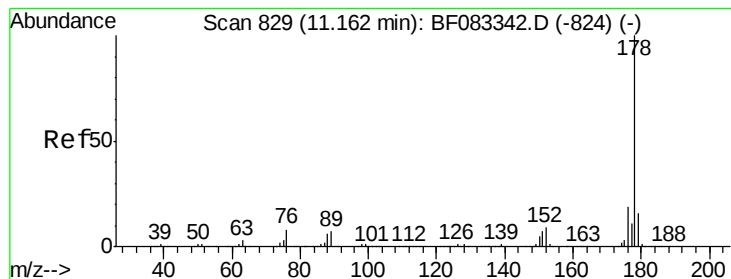
Tot Ion:163 Resp: 689544
Ion Ratio Lower Upper
163 100
194 3.4 2.7 4.1
164 10.3 8.8 13.2



#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





#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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

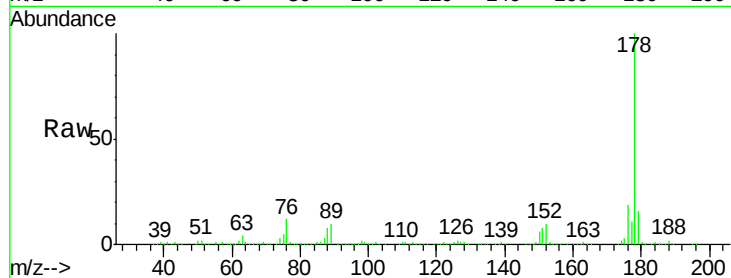
Tot Ion:178 Resp: 427581

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

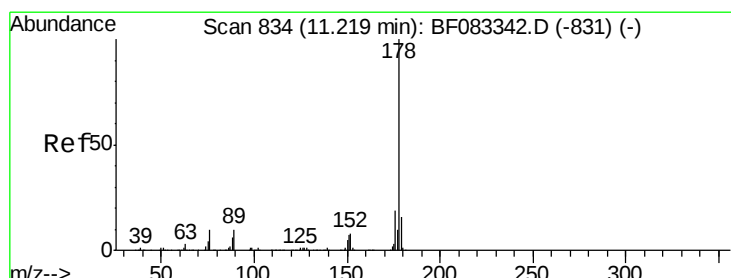
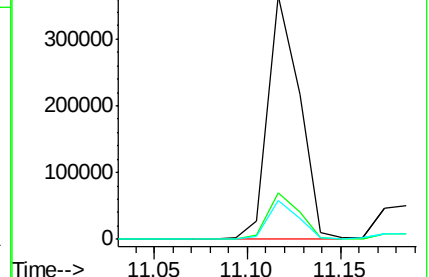
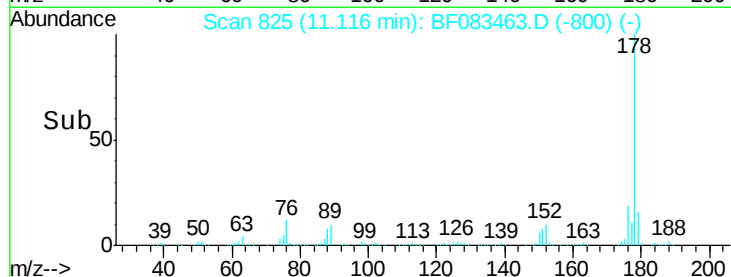
179 15.9 12.4 18.6



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: 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

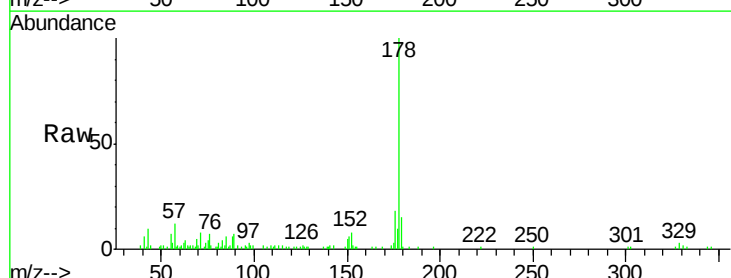
Tgt Ion:178 Resp: 77623

Ion Ratio Lower Upper

178 100

176 18.0 15.6 23.4

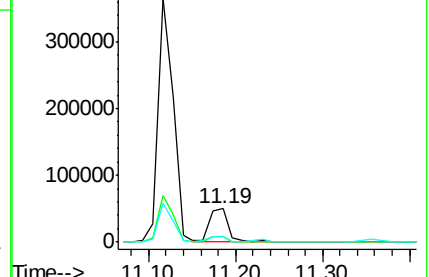
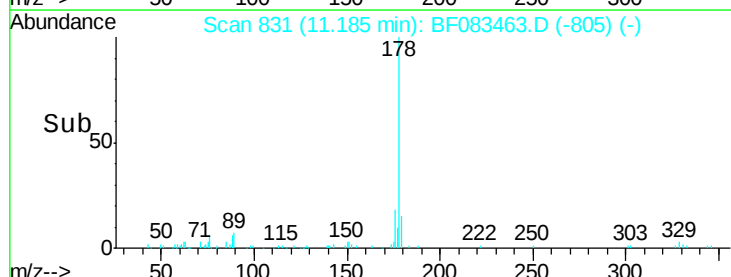
179 15.4 12.8 19.2

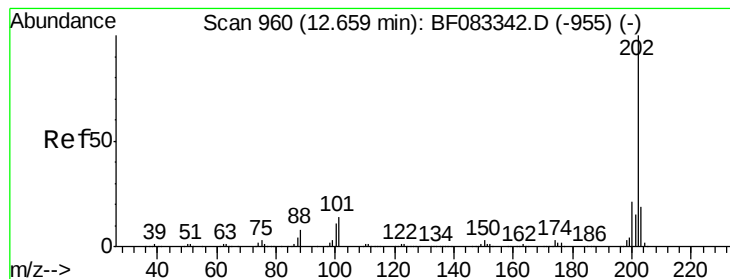


Abundance Ion 178.00 (177.70 to 178.70): E

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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

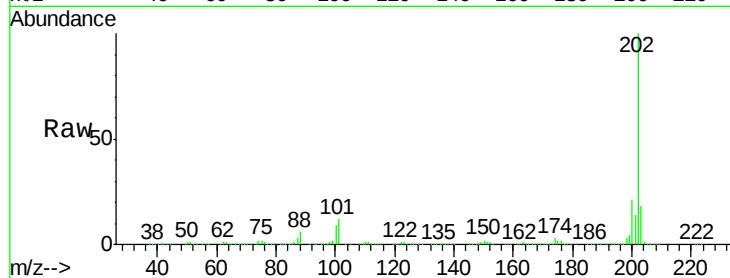
Tot Ion:202 Resp: 1064526

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.5

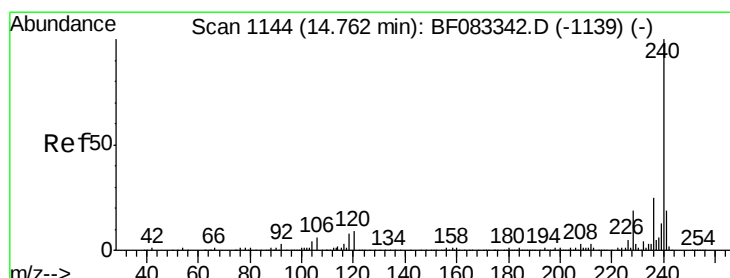
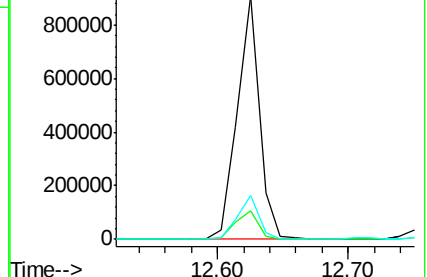
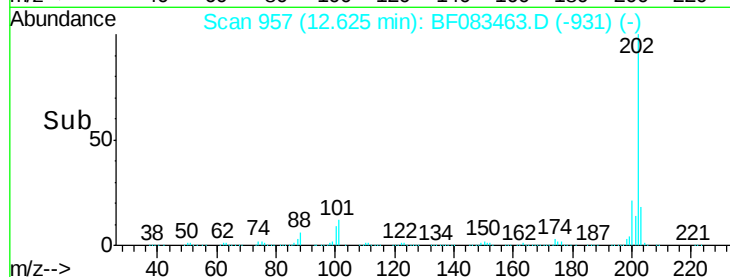
203 17.8 0.0 38.7



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

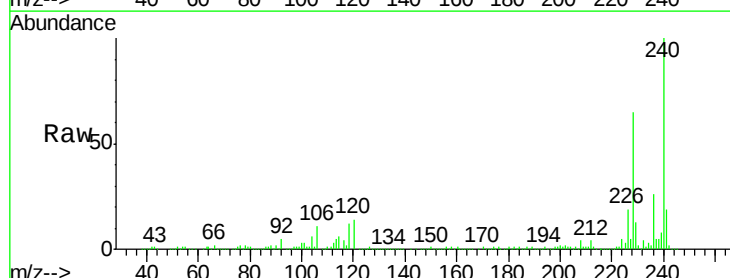
Tgt Ion:240 Resp: 485390

Ion Ratio Lower Upper

240 100

120 13.6 6.9 10.3#

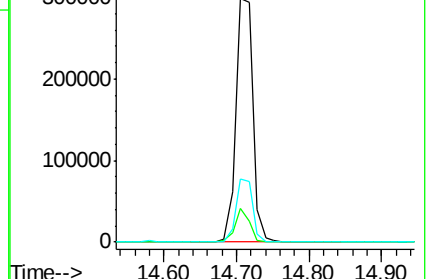
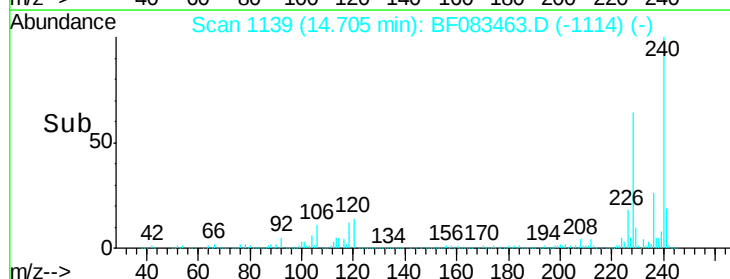
236 25.7 19.8 29.6

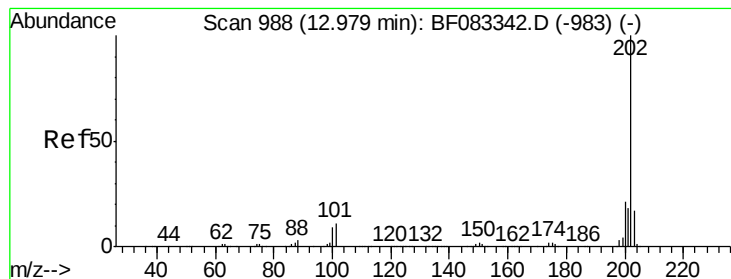


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

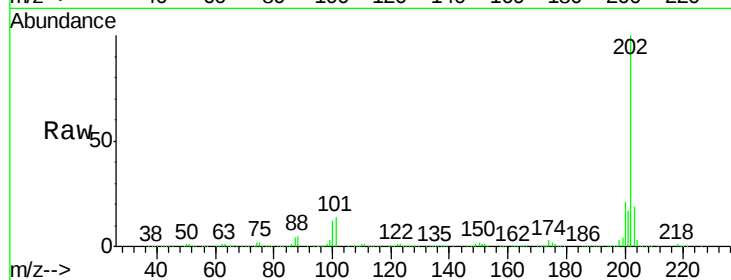
Tot Ion:202 Resp: 1145048

Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

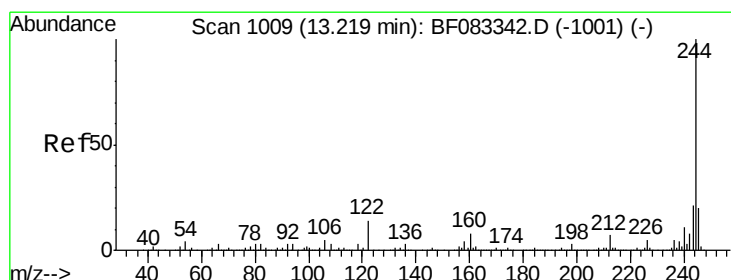
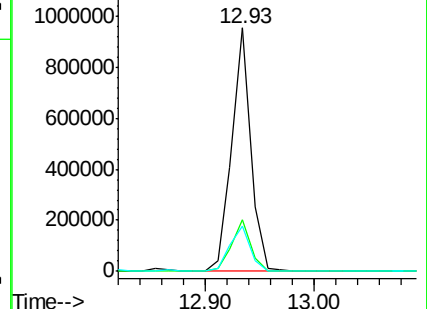
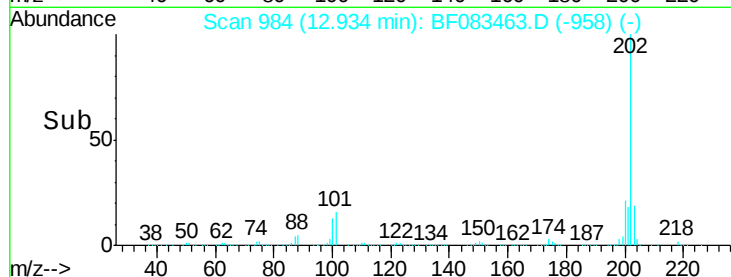
203 18.8 13.9 20.9



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

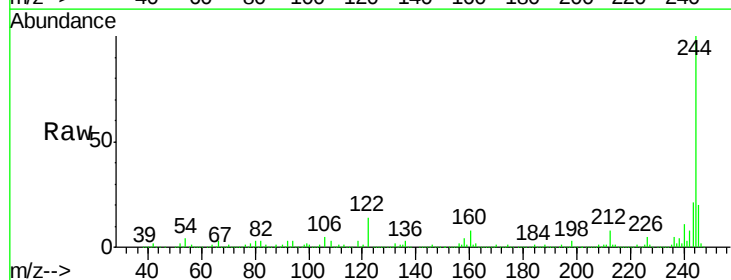
Tgt Ion:244 Resp: 1888562

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

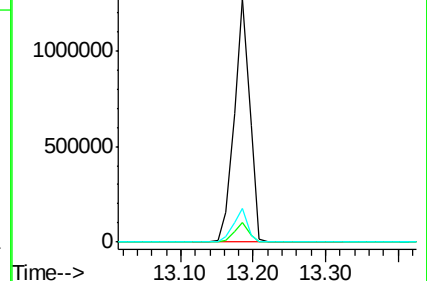
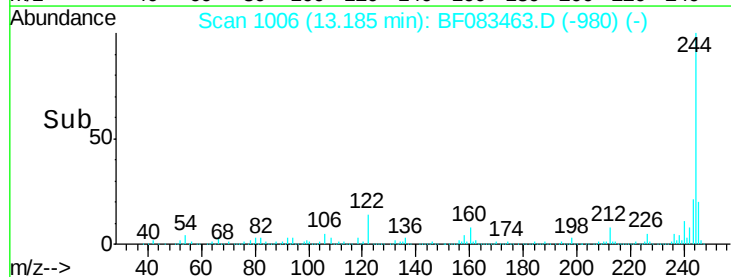
122 13.8 11.0 16.4

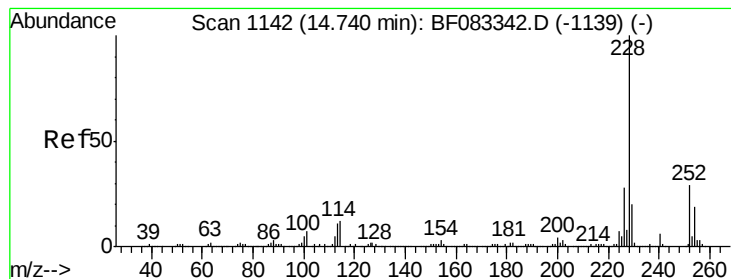


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

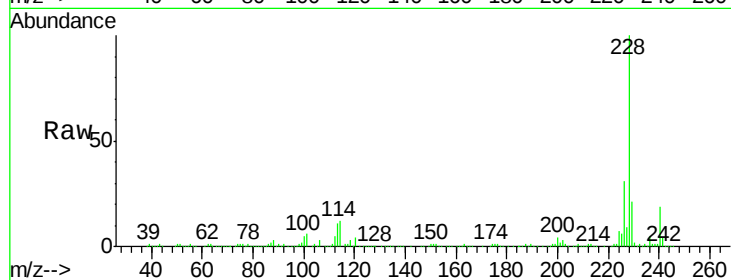
Tot Ion:228 Resp: 523068

Ion Ratio Lower Upper

228 100

226 31.0 22.2 33.4

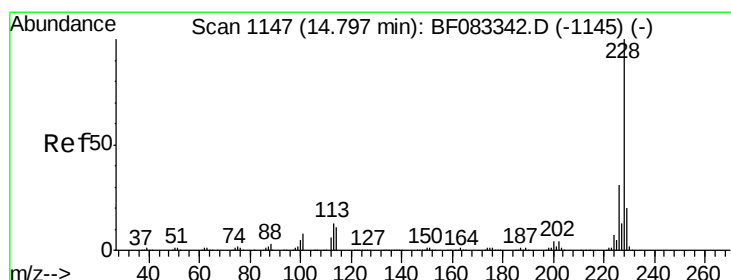
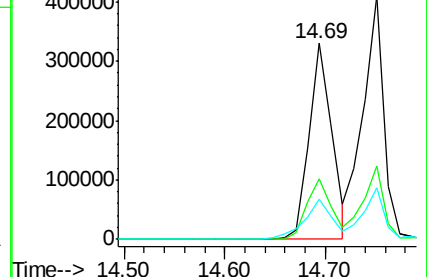
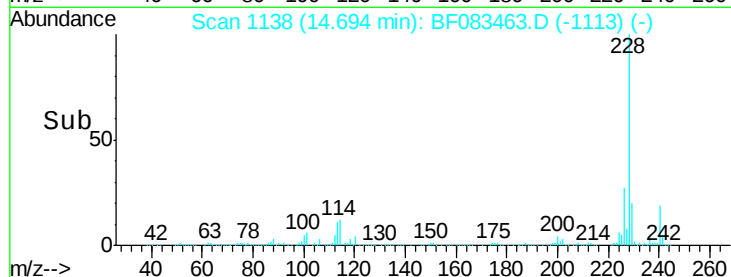
229 20.7 16.1 24.1



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: 20.74 ng

RT: 14.75 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

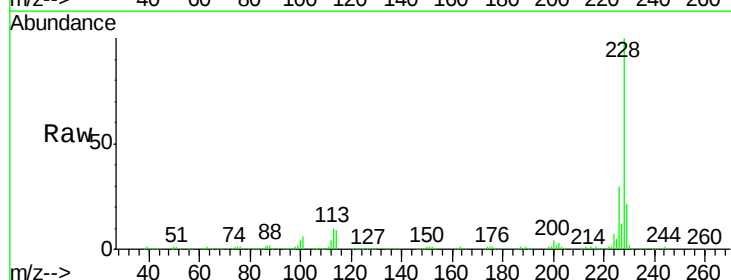
Tgt Ion:228 Resp: 595874

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

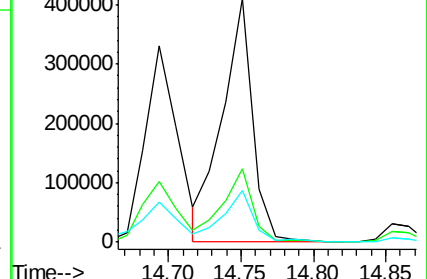
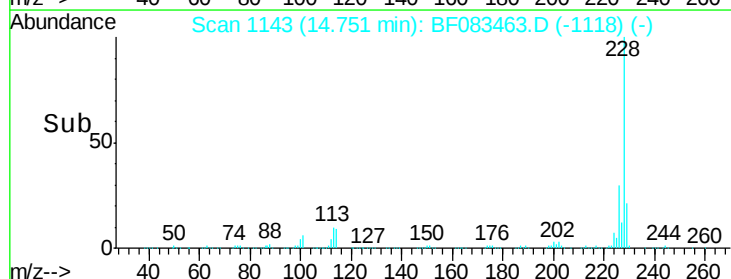
229 21.3 16.2 24.2

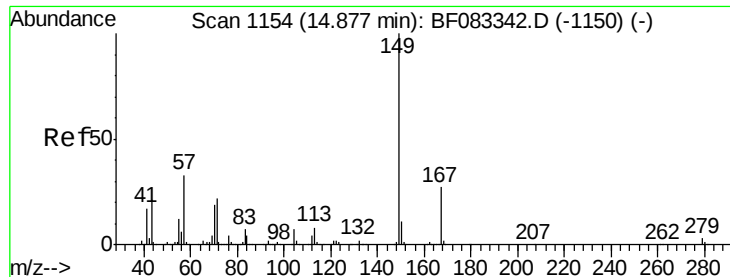


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

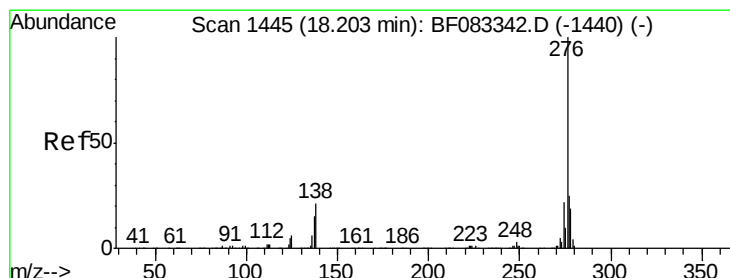
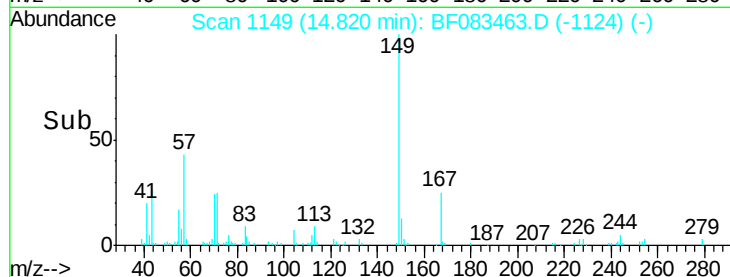
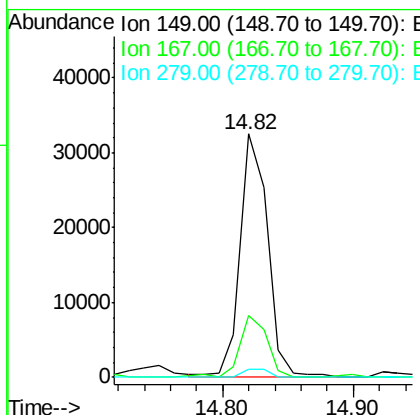
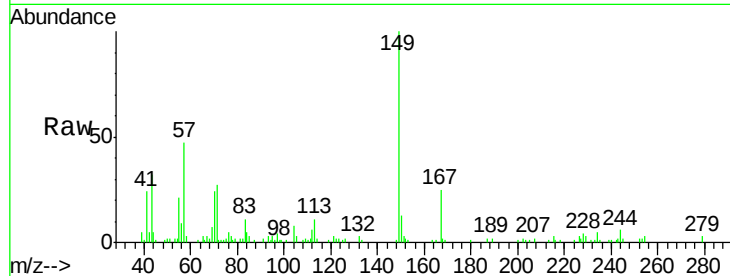




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.47 ng
 RT: 14.82 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: BF083463.D
 Acq: 3 Dec 2015 16:40

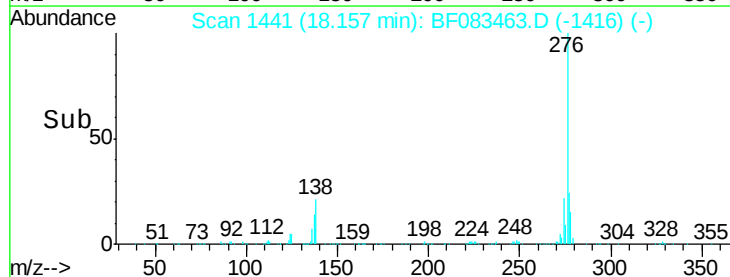
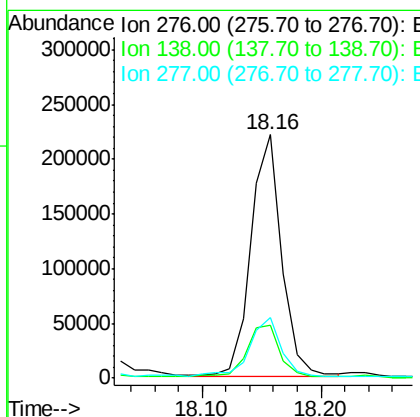
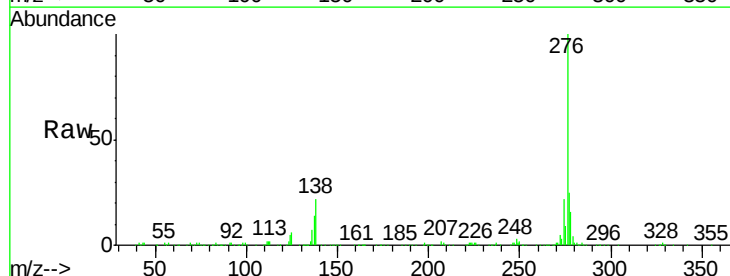
Instrument :
 BNA_F
 ClientSampleId :
 DUP3-112415

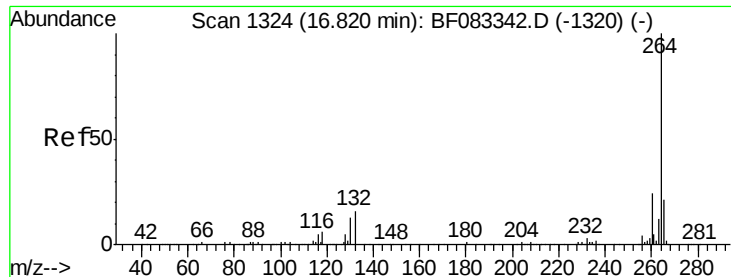
Tot Ion:149 Resp: 47723
 Ion Ratio Lower Upper
 149 100
 167 25.5 21.5 32.3
 279 3.5 2.6 3.8



#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

Tgt Ion:276 Resp: 403095
 Ion Ratio Lower Upper
 276 100
 138 24.0 21.2 31.8
 277 25.0 20.0 30.0





#86

Pervlene-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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

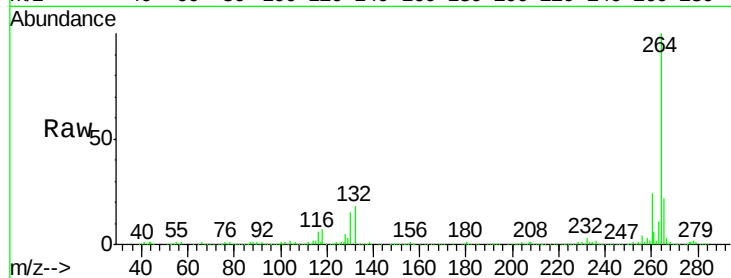
Tot Ion:264 Resp: 384568

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

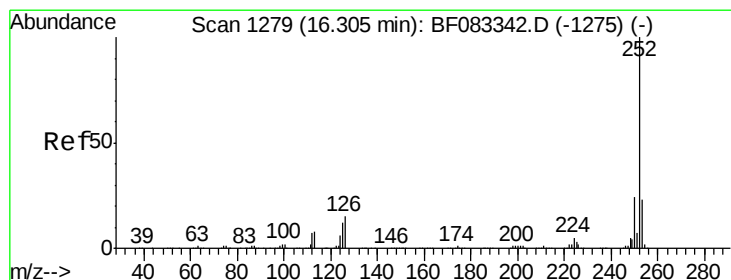
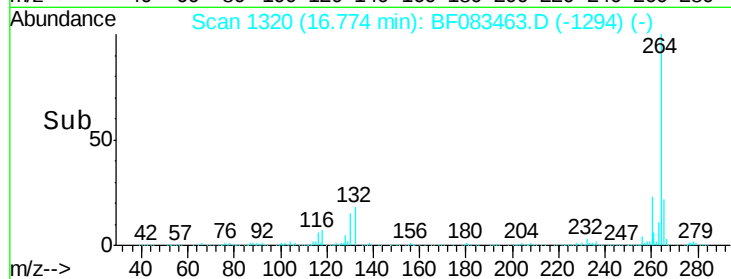
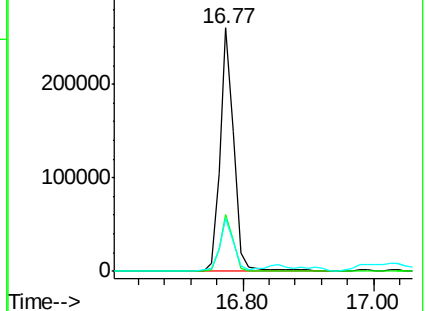
265 22.0 16.8 25.2



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: 28.74 ng m

RT: 16.27 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

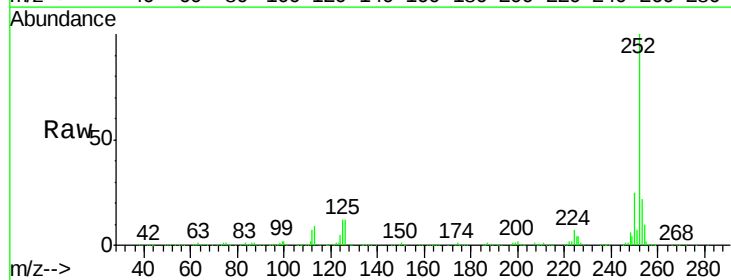
Tgt Ion:252 Resp: 709278

Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

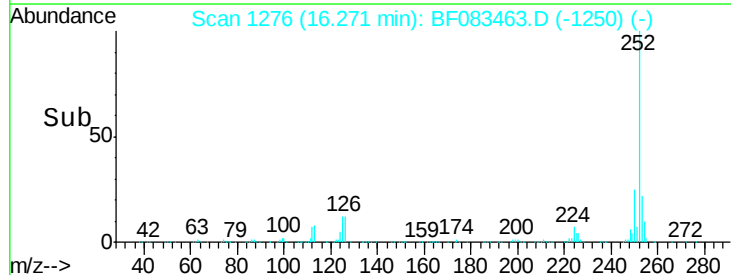
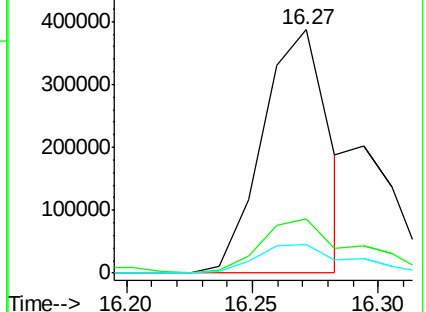
125 12.0 9.6 14.4

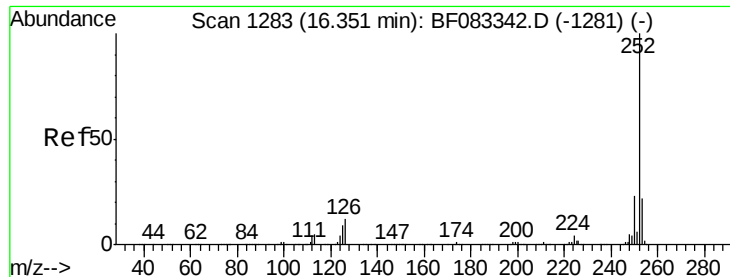


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 10.83 ng m

RT: 16.29 min Scan# 1278

Delta R.T. -0.02 min

Lab File: BF083463.D

Acq: 3 Dec 2015 16:40

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

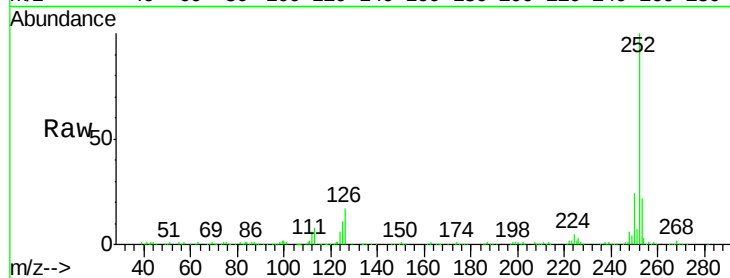
Tot Ion:252 Resp: 252407

Ion Ratio Lower Upper

252 100

253 21.6 17.4 26.0

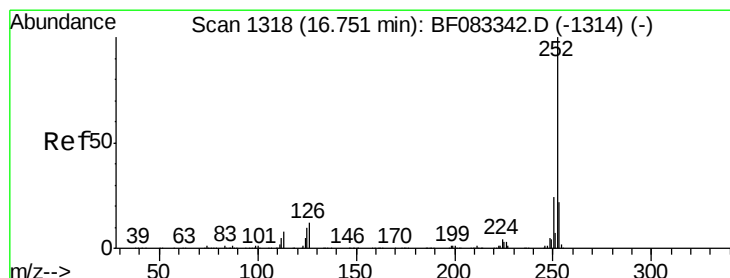
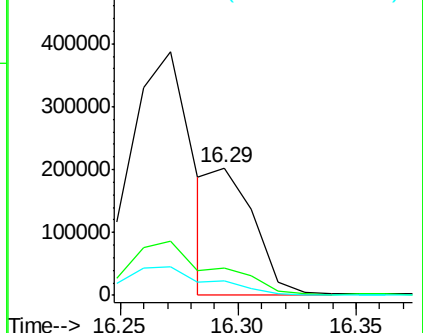
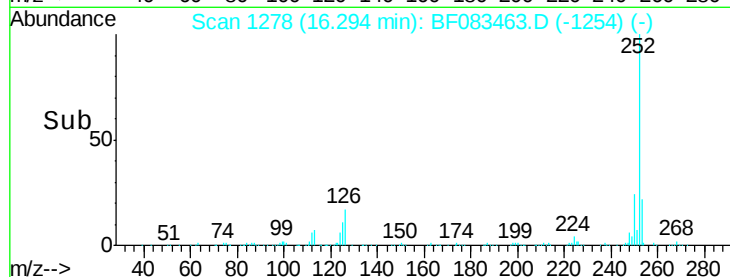
125 11.0 7.5 11.3



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

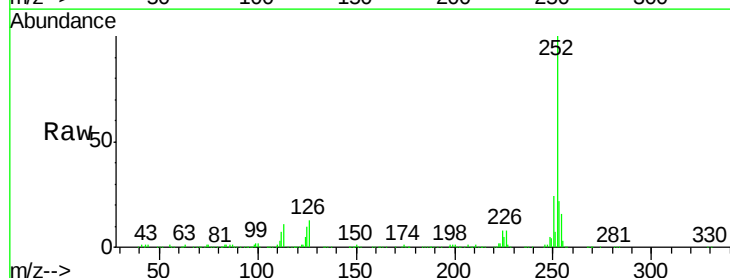
Tgt Ion:252 Resp: 395737

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

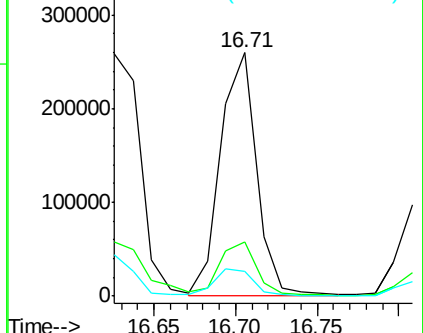
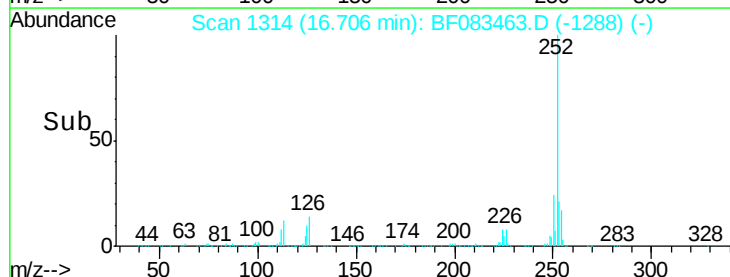
125 10.0 7.8 11.8

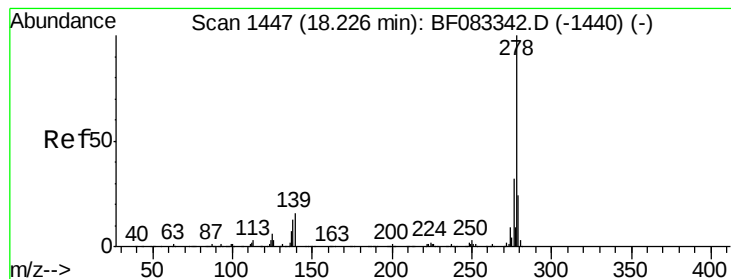


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#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

Instrument :

BNA_F

ClientSampleId :

DUP3-112415

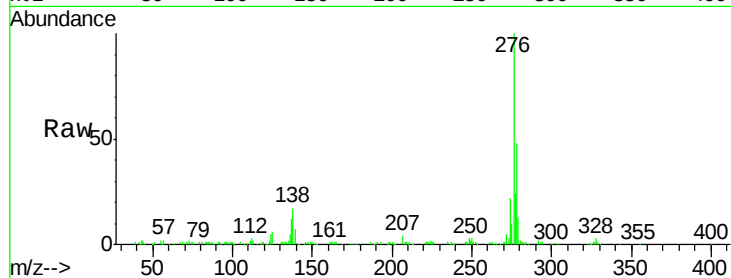
Tot Ion:278 Resp: 92203

Ion Ratio Lower Upper

278 100

139 14.3 13.1 19.7

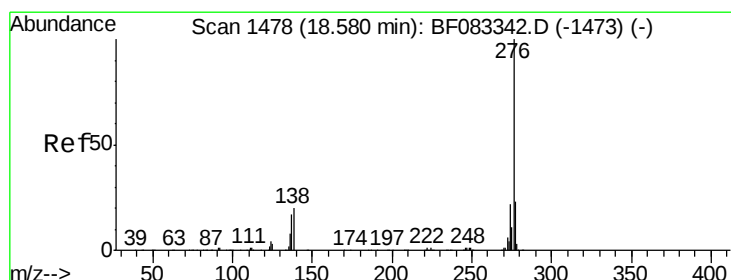
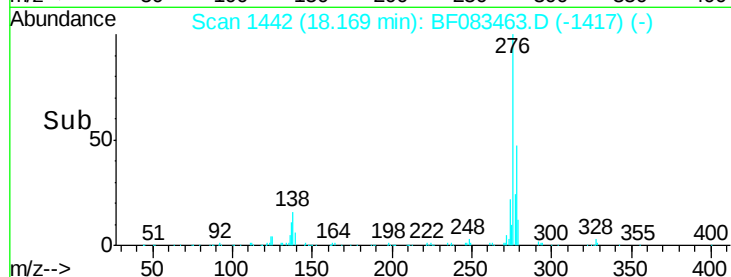
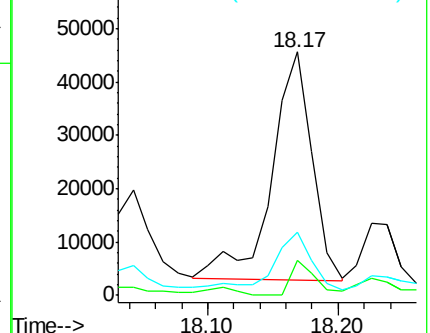
279 26.0 19.2 28.8



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



#91

Benzo(g,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

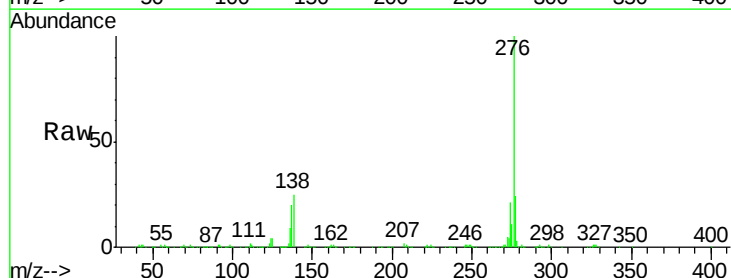
Tgt Ion:276 Resp: 431231

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 24.8 16.1 24.1#



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

