

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\
 Data File : BF079360.D
 Acq On : 20 May 2015 2:05
 Operator : TP/IZ
 Sample : G2282-15DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1DL

Quant Time: May 20 06:10:09 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 20 05:08:22 2015
 Response via : Initial Calibration

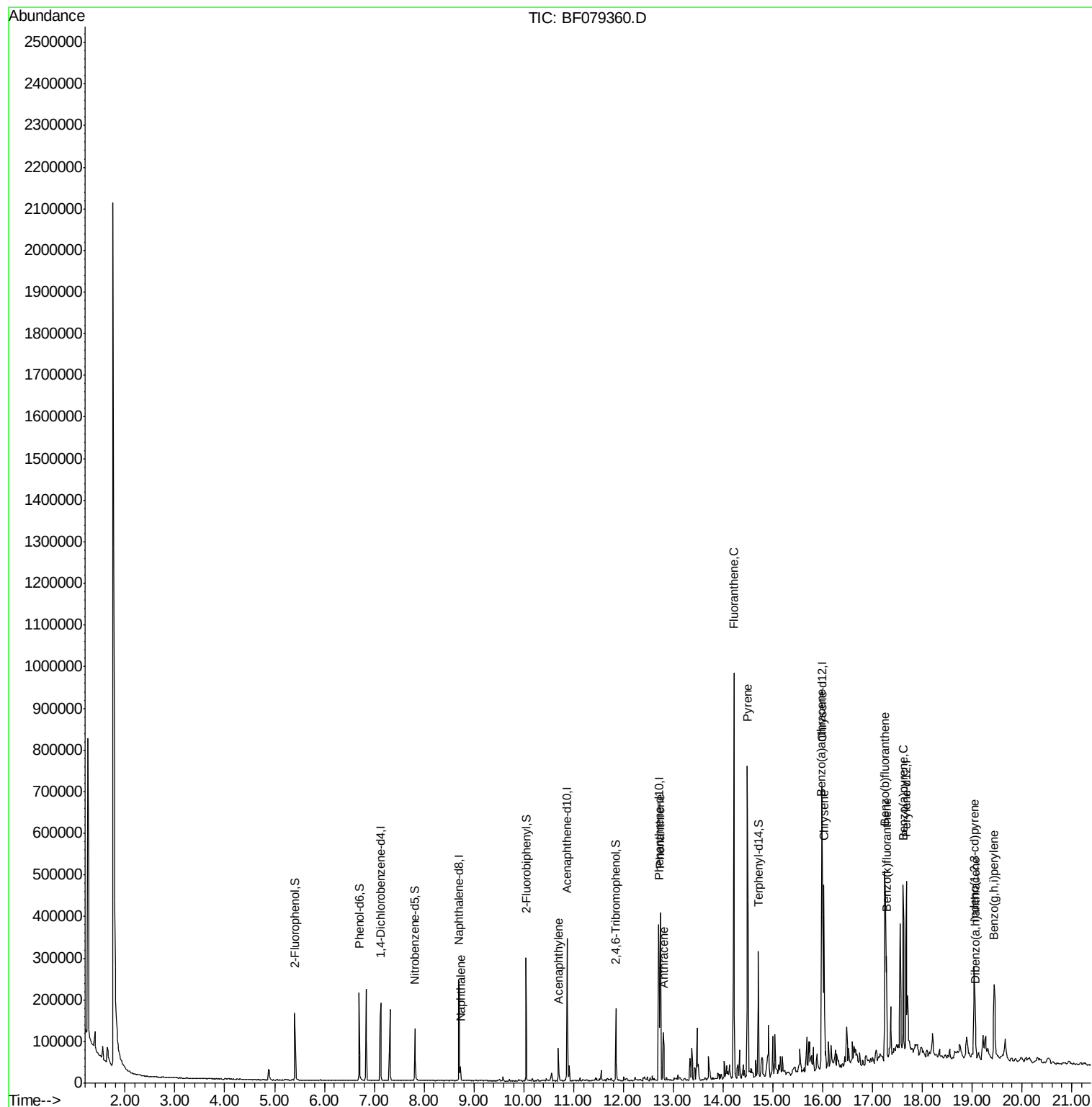
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.13	152	40276	20.00	ng	0.00
21) Naphthalene-d8	8.71	136	164912	20.00	ng	0.00
38) Acenaphthene-d10	10.87	164	84443	20.00	ng	-0.01
63) Phenanthrene-d10	12.71	188	163250	20.00	ng	-0.01
75) Chrysene-d12	15.99	240	176513	20.00	ng	-0.03
86) Perylene-d12	17.68	264	191154	20.00	ng	-0.14
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	61660m	26.35	ng	-0.01
7) Phenol-d6	6.70	99	80880	26.15	ng	-0.01
23) Nitrobenzene-d5	7.82	82	44917	15.65	ng	-0.01
41) 2,4,6-Tribromophenol	11.85	330	22552	24.69	ng	-0.01
44) 2-Fluorobiphenyl	10.04	172	99149	16.36	ng	-0.01
78) Terphenyl-d14	14.71	244	118448	16.07	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.73	128	17157	2.18	ng	98
48) Acenaphthylene	10.70	152	37871	4.40	ng	98
70) Phenanthrene	12.74	178	167955	18.39	ng	98
71) Anthracene	12.80	178	62616	6.99	ng	99
74) Fluoranthene	14.22	202	418010	43.92	ng	97
77) Pyrene	14.49	202	366364	36.02	ng	98
80) Benzo(a)anthracene	15.98	228	242101m	25.05	ng	
82) Chrysene	16.02	228	191392	20.59	ng	99
85) Indeno(1,2,3-cd)pyrene	19.04	276	153087	12.92	ng	96
87) Benzo(b)fluoranthene	17.25	252	301340m	28.80	ng	
88) Benzo(k)fluoranthene	17.28	252	90774m	8.96	ng	
89) Benzo(a)pyrene	17.61	252	216906	22.51	ng	# 96
90) Dibenzo(a,h)anthracene	19.06	278	35932	3.51	ng	94
91) Benzo(g,h,i)perylene	19.44	276	143345	13.97	ng	# 94

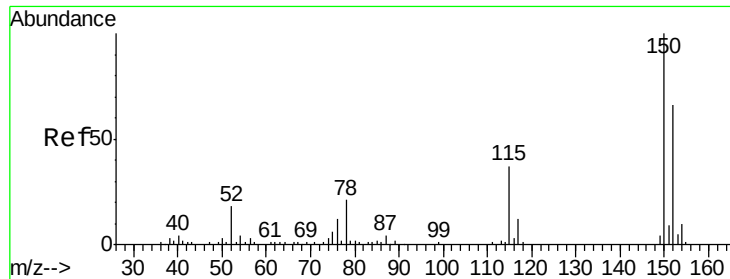
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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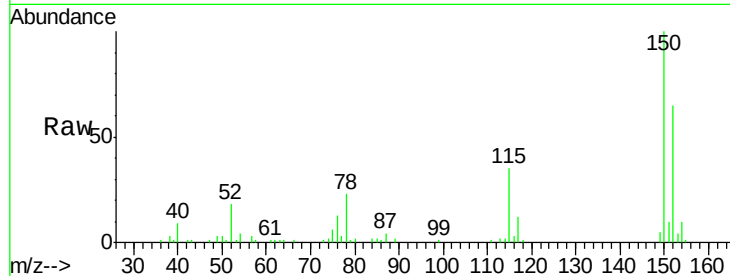




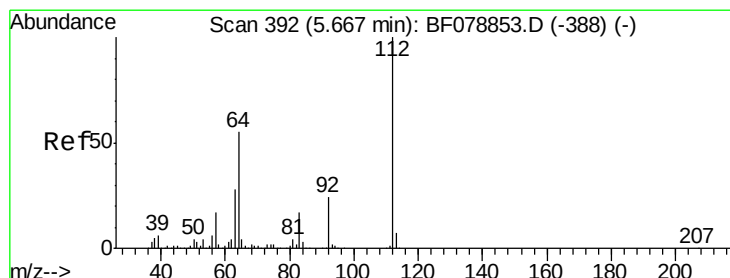
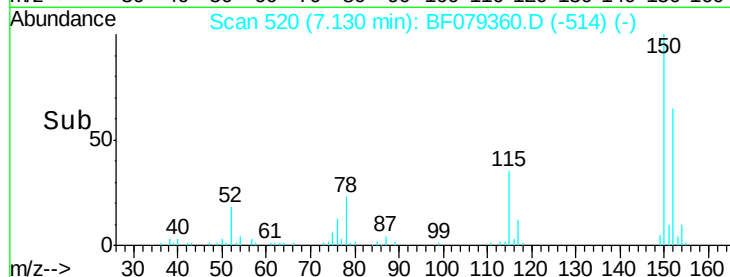
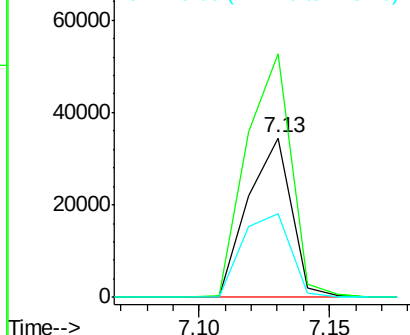
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.13 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1DL

Tot Ion:	152	Resp:	40276
Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.8	185.8
115	52.9	49.4	74.0

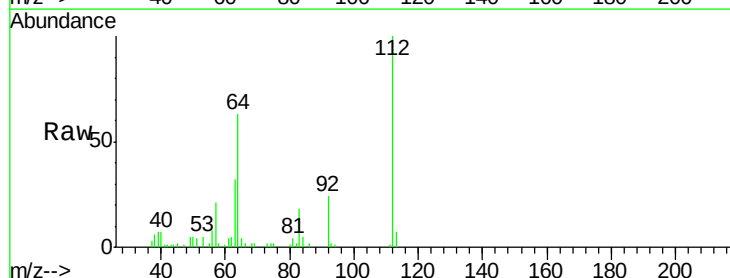


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

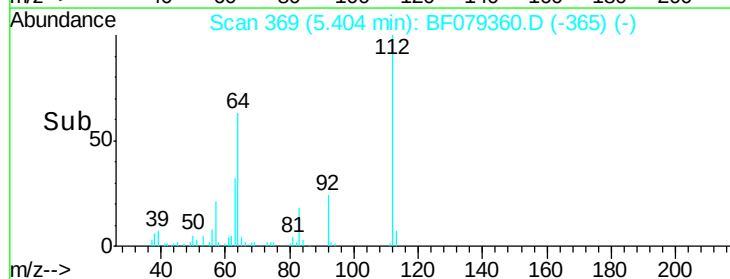
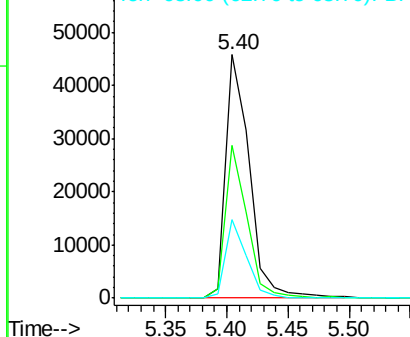


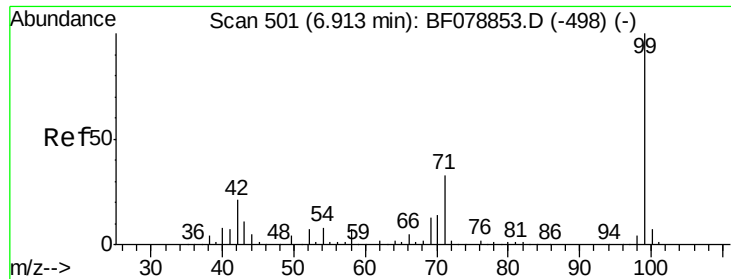
#5
 2-Fluorophenol
 Concen: 26.35 ng m
 RT: 5.40 min Scan# 369
 Delta R.T. -0.01 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

Tgt Ion:	112	Resp:	61660
Ion	Ratio	Lower	Upper
112	100		
64	62.9	44.2	66.2
63	32.4	22.7	34.1



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





#7

Phenol-d6

Concen: 26.15 ng

RT: 6.70 min Scan# 482

Delta R.T. -0.01 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

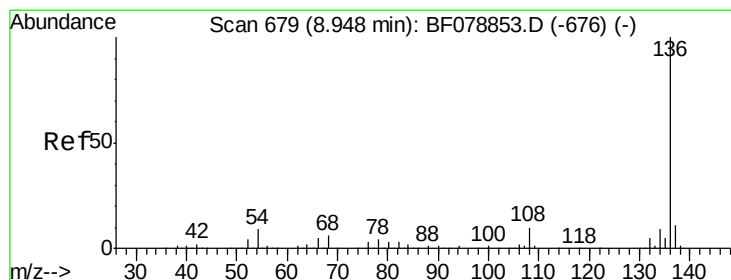
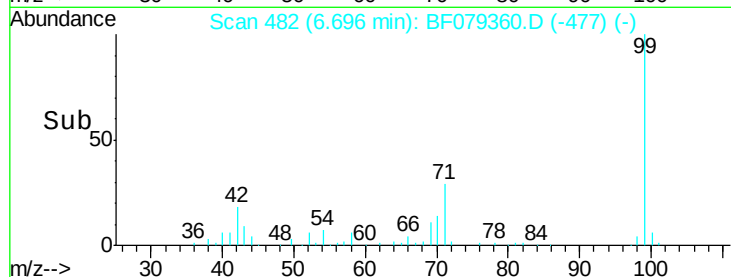
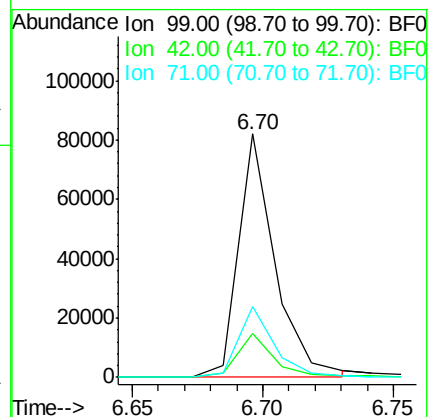
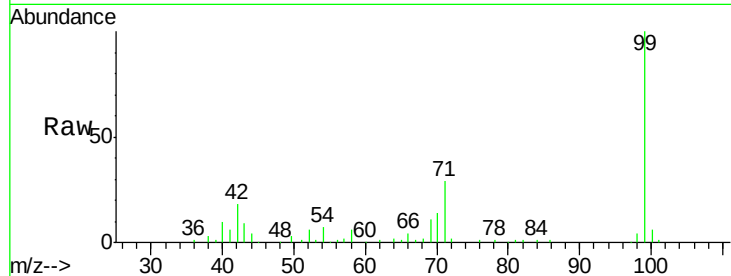
Tot Ion: 99 Resp: 80880

Ion Ratio Lower Upper

99 100

42 17.8 17.1 25.7

71 29.3 26.3 39.5



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Tgt Ion: 136 Resp: 164912

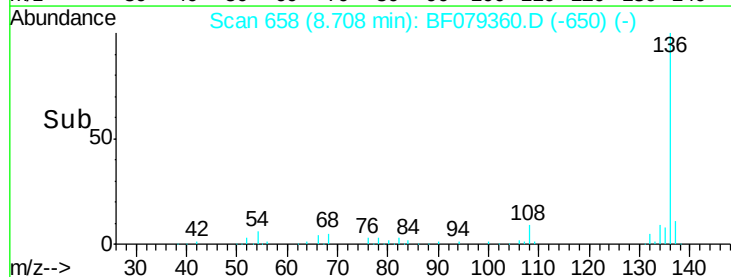
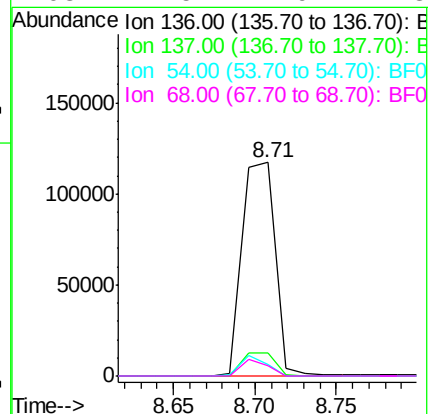
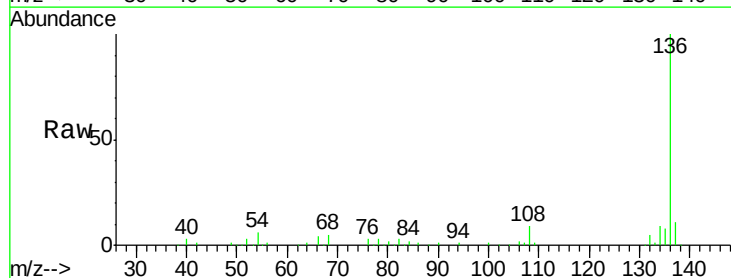
Ion Ratio Lower Upper

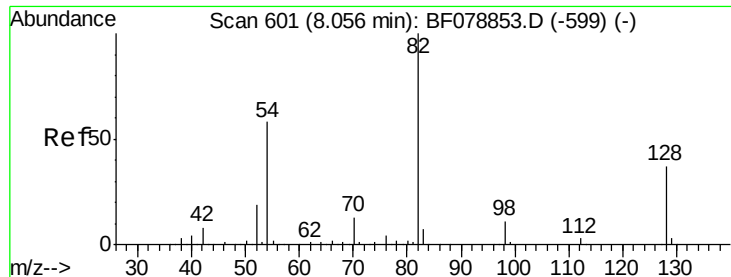
136 100

137 10.7 8.8 13.2

54 5.5 6.9 10.3#

68 4.5 4.9 7.3#

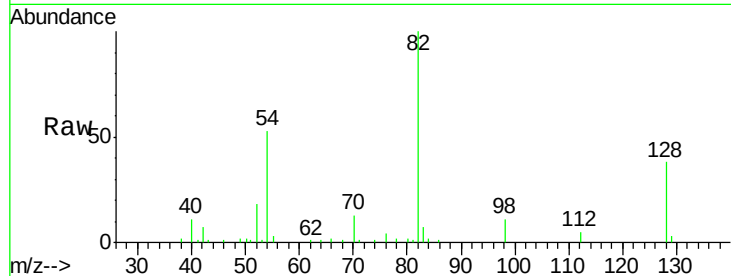




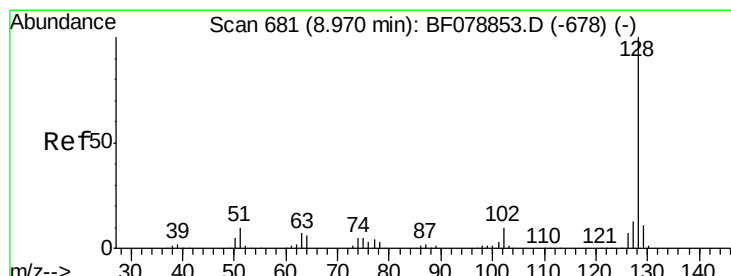
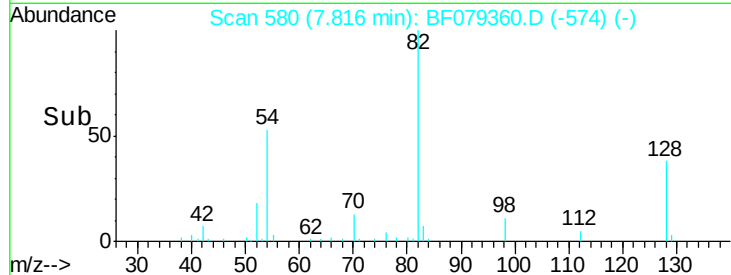
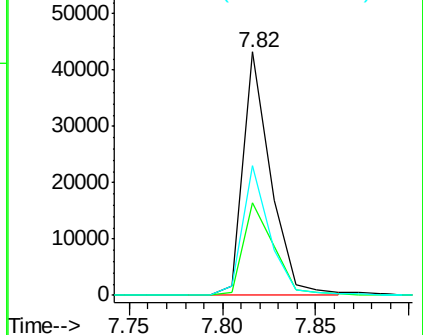
#23
Nitrobenzene-d5
Concen: 15.65 ng
RT: 7.82 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

Instrument :
BNA_F
ClientSampleId :
WC-03-D1DL

Tot Ion	82	Resp	44917
Ion Ratio	100	Lower	Upper
128	37.8	29.7	44.5
54	53.1	46.2	69.4

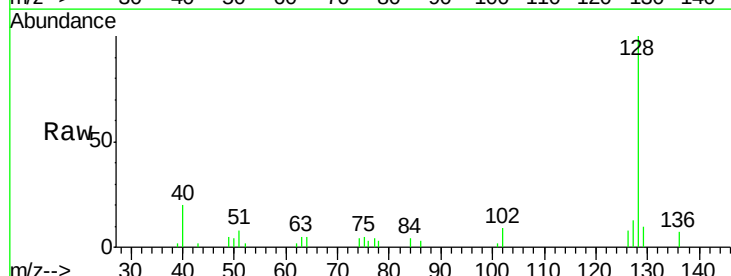


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

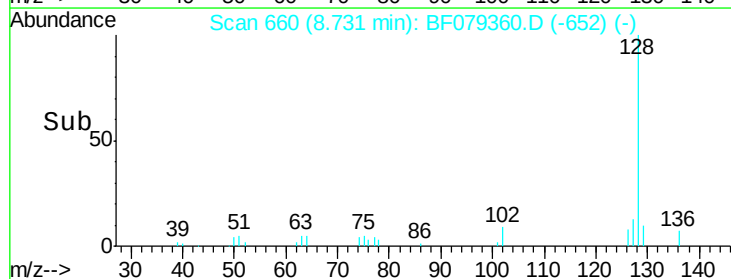
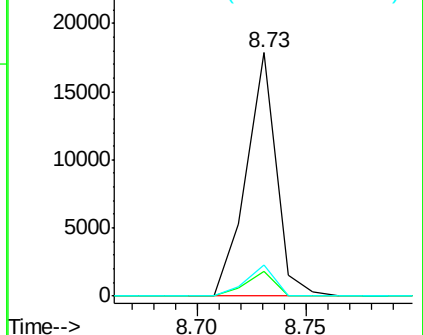


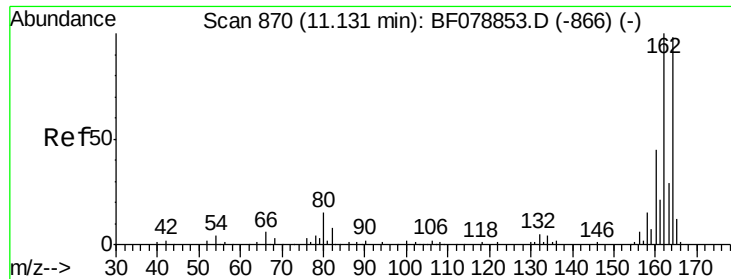
#31
Naphthalene
Concen: 2.18 ng
RT: 8.73 min Scan# 660
Delta R.T. 0.00 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

Tgt Ion	128	Resp	17157
Ion Ratio	100	Lower	Upper
129	10.4	9.2	13.8
127	12.7	10.3	15.5



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

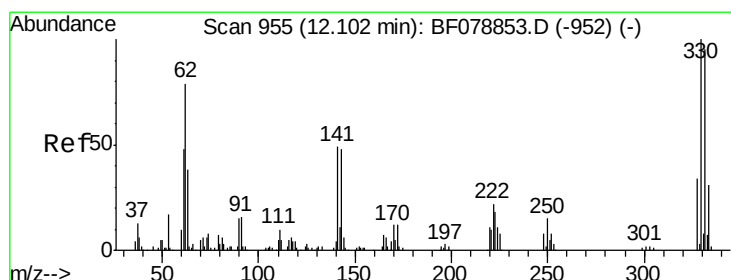
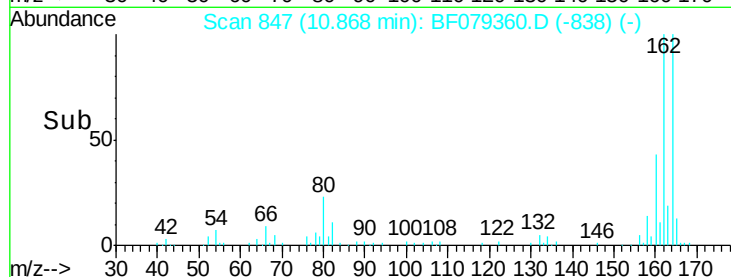
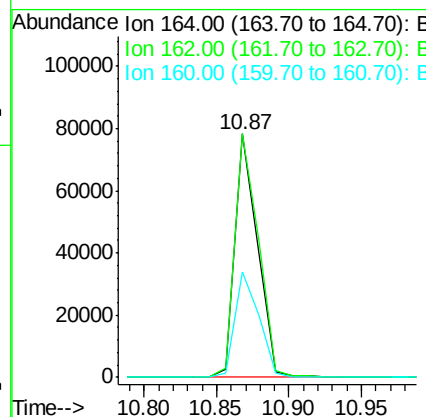
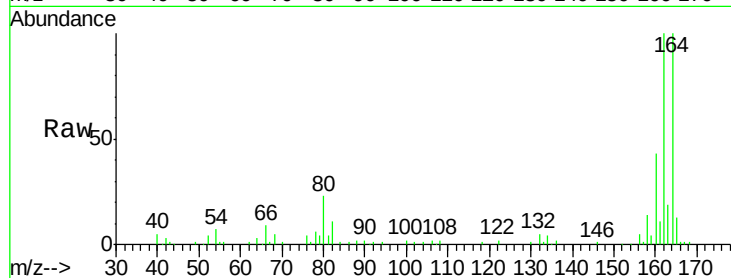




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.87 min Scan# 847
Delta R.T. -0.01 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

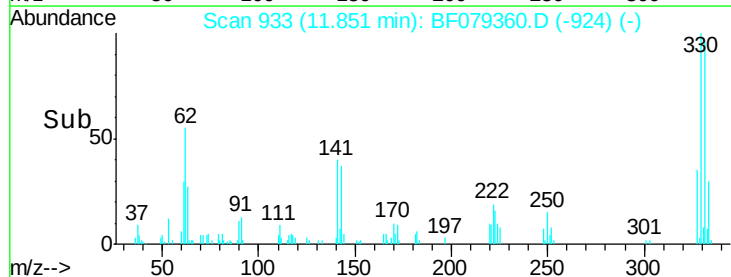
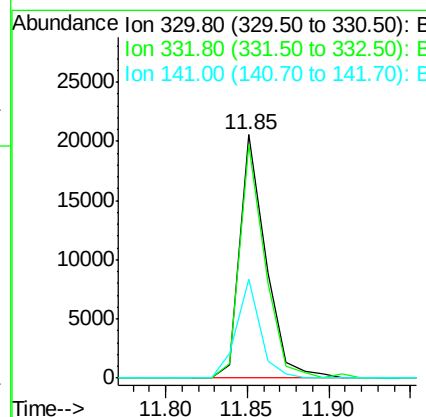
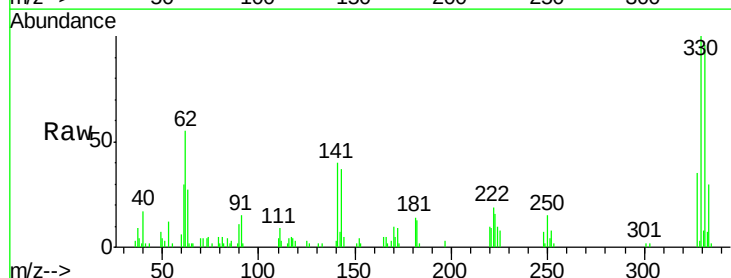
Instrument :
BNA_F
ClientSampleId :
WC-03-D1DL

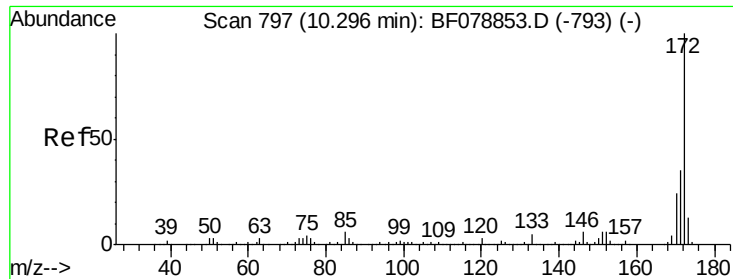
Tot Ion:164 Resp: 84443
Ion Ratio Lower Upper
164 100
162 100.1 81.4 122.0
160 43.2 36.6 54.8



#41
2,4,6-Tribromophenol
Concen: 24.69 ng
RT: 11.85 min Scan# 933
Delta R.T. -0.01 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

Tgt Ion:330 Resp: 22552
Ion Ratio Lower Upper
330 100
332 93.5 76.9 115.3
141 37.2 27.8 41.8

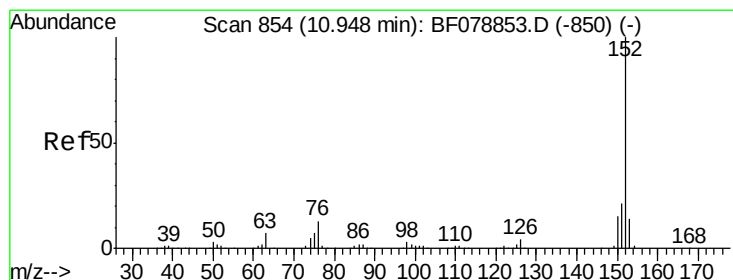
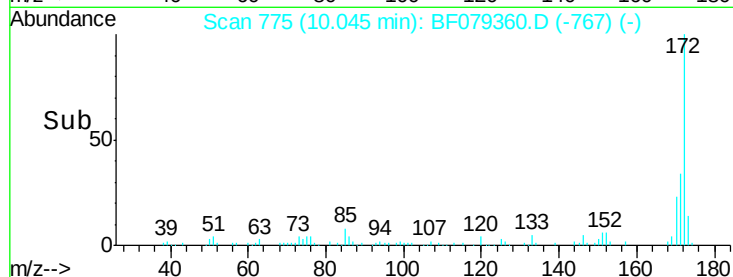
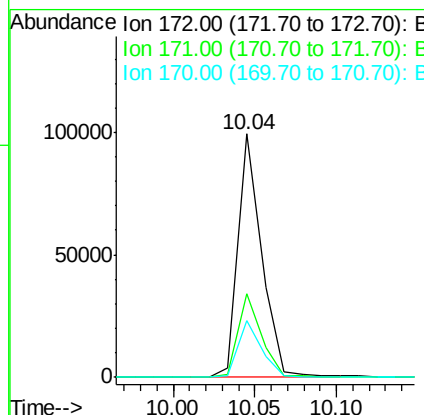
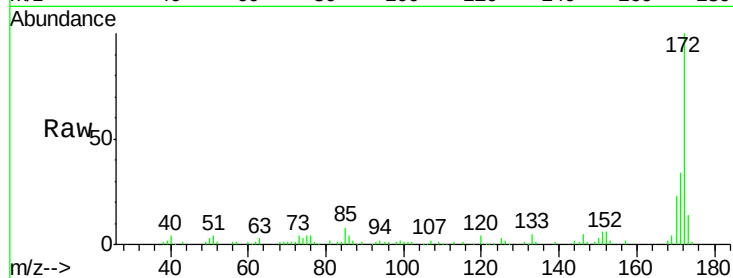




#44
 2-Fluorobiphenyl
 Concen: 16.36 ng
 RT: 10.04 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

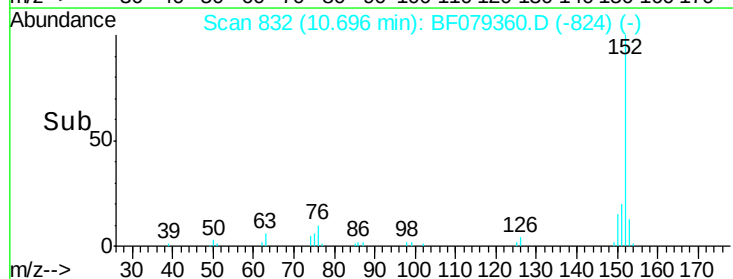
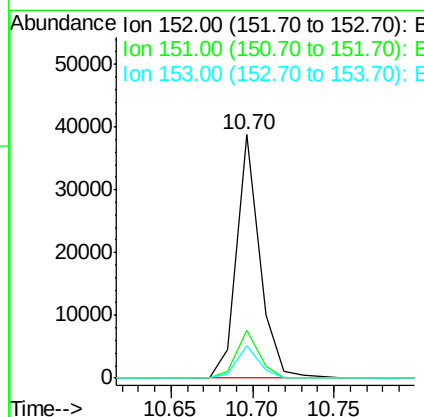
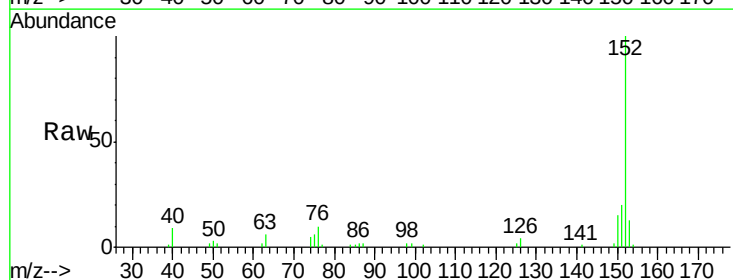
Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1DL

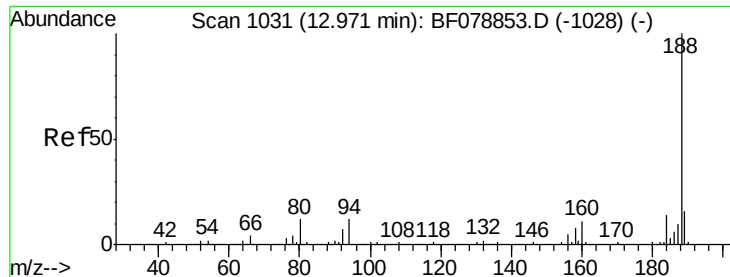
Tot Ion:172 Resp: 99149
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.3 42.5
 170 23.3 19.4 29.2



#48
 Acenaphthylene
 Concen: 4.40 ng
 RT: 10.70 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

Tgt Ion:152 Resp: 37871
 Ion Ratio Lower Upper
 152 100
 151 19.8 16.6 24.8
 153 13.4 11.0 16.6

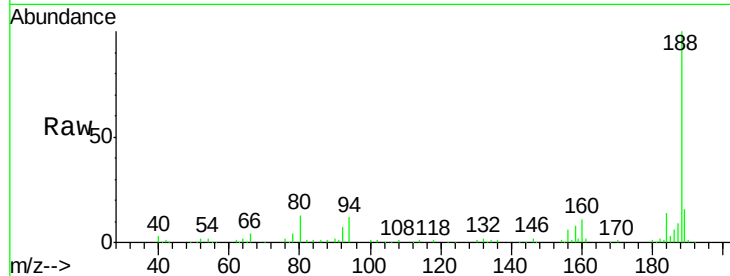




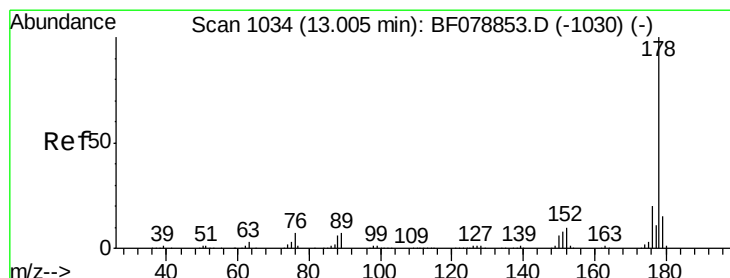
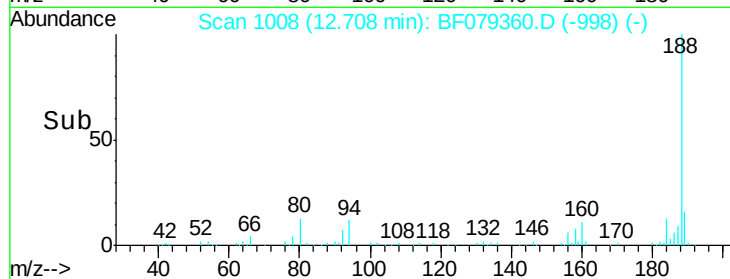
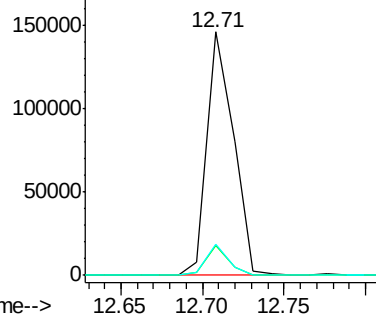
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.71 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

Instrument :
BNA_F
ClientSampleId :
WC-03-D1DL

Tot Ion:188 Resp: 163250
Ion Ratio Lower Upper
188 100
94 12.3 9.4 14.0
80 12.9 9.8 14.6

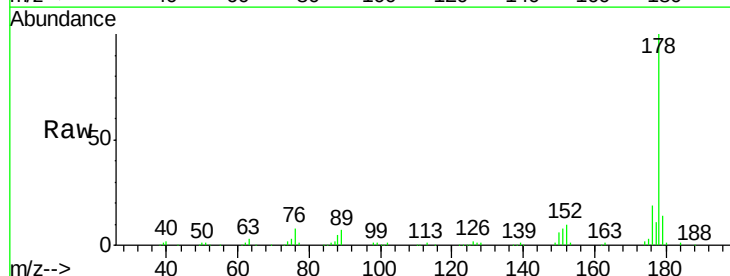


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

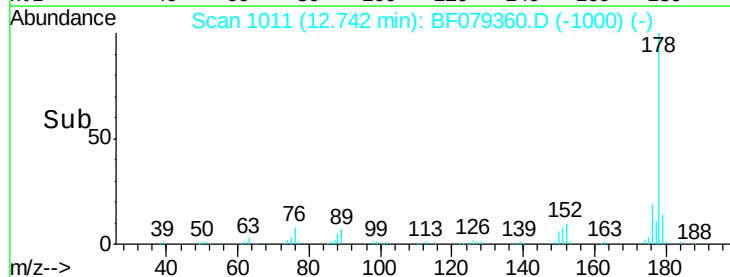
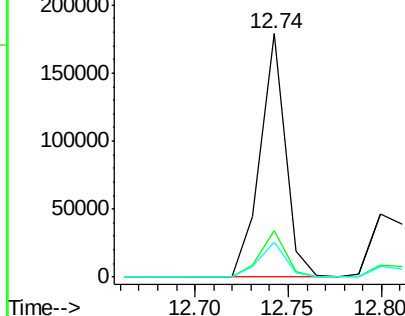


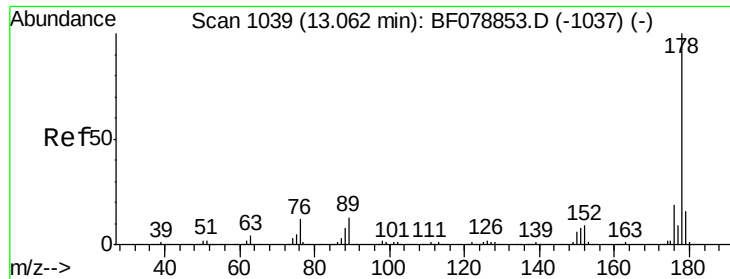
#70
Phenanthrene
Concen: 18.39 ng
RT: 12.74 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BF079360.D
Acq: 20 May 2015 2:05

Tgt Ion:178 Resp: 167955
Ion Ratio Lower Upper
178 100
176 19.1 15.9 23.9
179 14.5 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

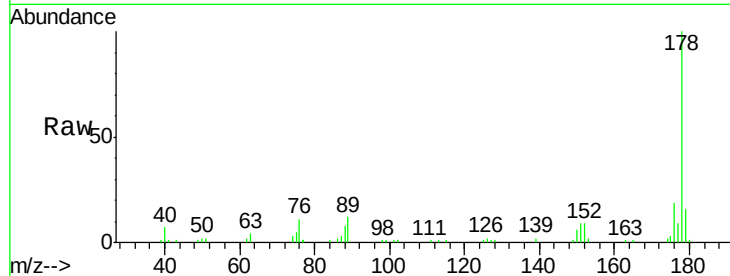




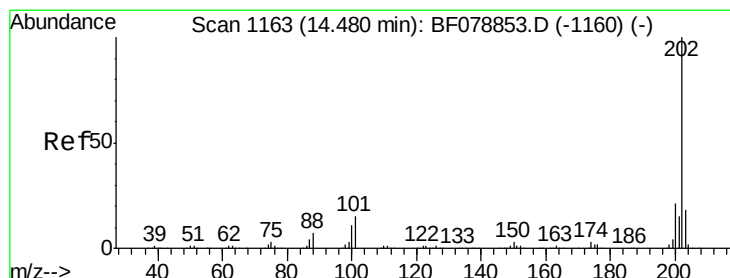
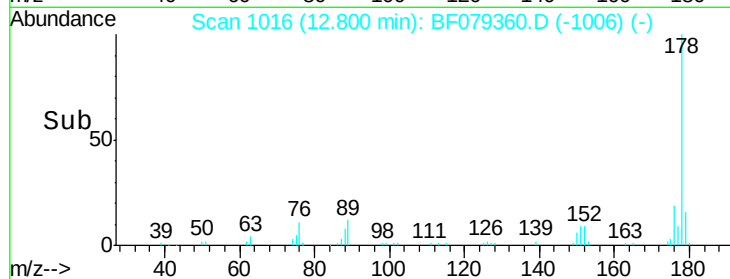
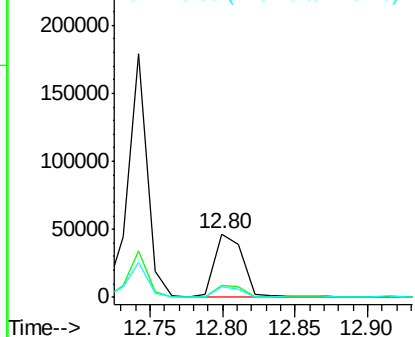
#71
 Anthracene
 Concen: 6.99 ng
 RT: 12.80 min Scan# 1016
 Delta R.T. -0.01 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

Instrument :
 BNA_F
 ClientSampleId :
 WC-03-D1DL

Tot Ion:178 Resp: 62616
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.3 22.9
 179 16.0 12.6 19.0

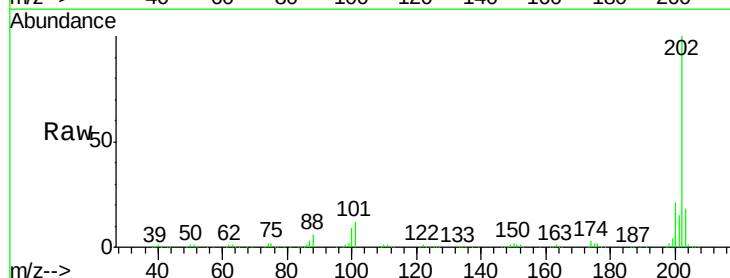


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

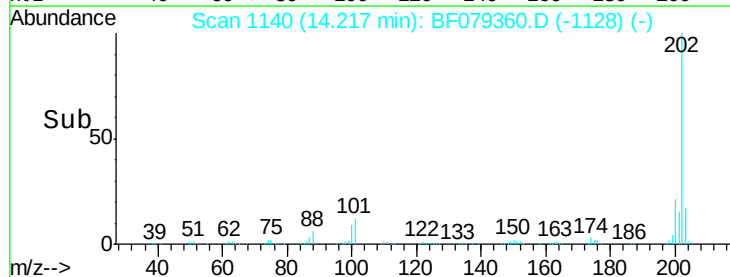
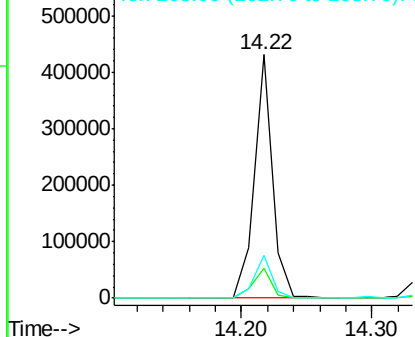


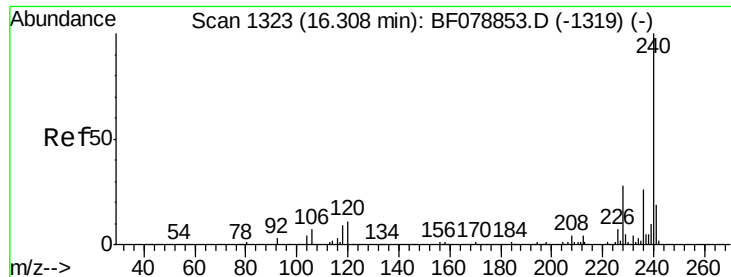
#74
 Fluoranthene
 Concen: 43.92 ng
 RT: 14.22 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: BF079360.D
 Acq: 20 May 2015 2:05

Tgt Ion:202 Resp: 418010
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 34.7
 203 17.6 0.0 37.9



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: 15.99 min Scan# 1295

Delta R.T. -0.03 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

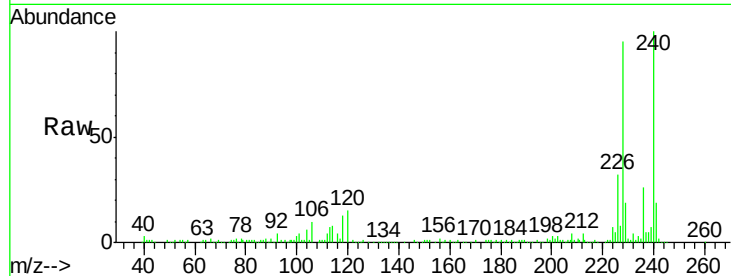
Tot Ion:240 Resp: 176513

Ion Ratio Lower Upper

240 100

120 15.1 8.6 12.8#

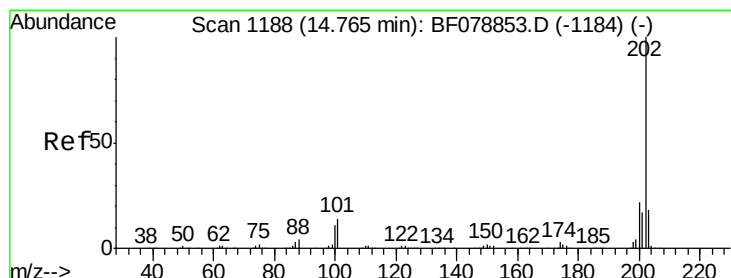
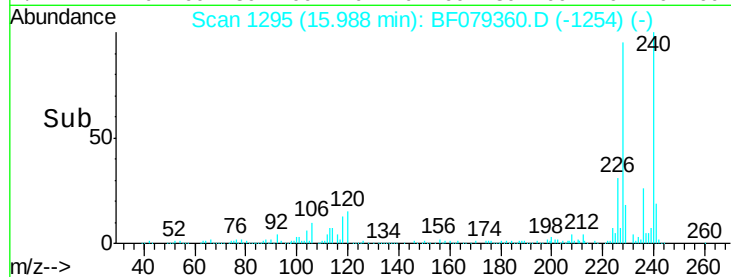
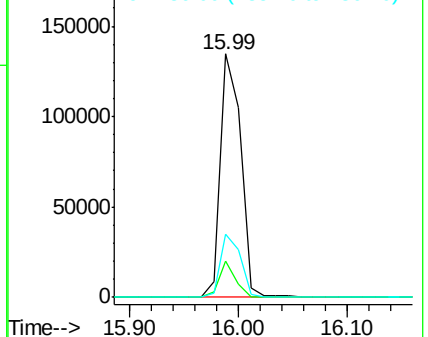
236 25.9 21.0 31.6



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: 36.02 ng

RT: 14.49 min Scan# 1164

Delta R.T. -0.01 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

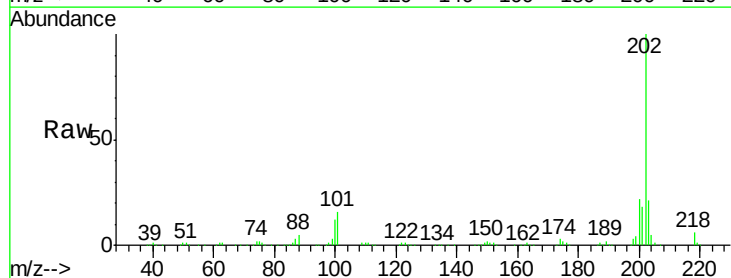
Tgt Ion:202 Resp: 366364

Ion Ratio Lower Upper

202 100

200 21.9 17.5 26.3

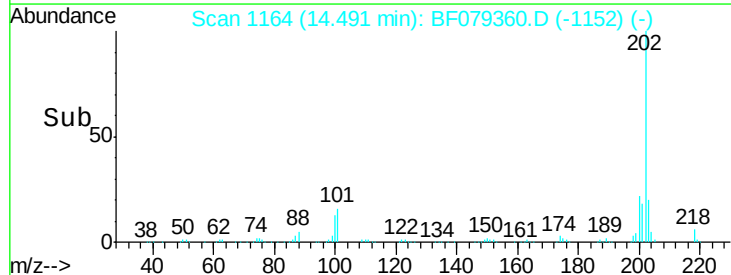
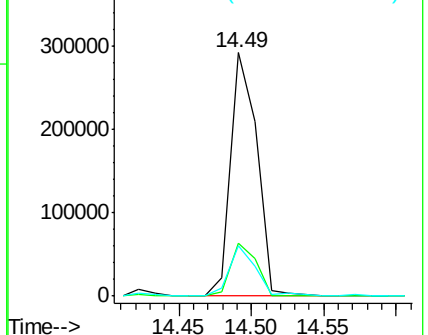
203 20.5 14.7 22.1

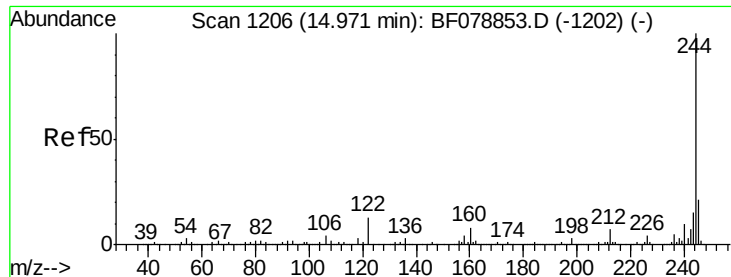


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 16.07 ng

RT: 14.71 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

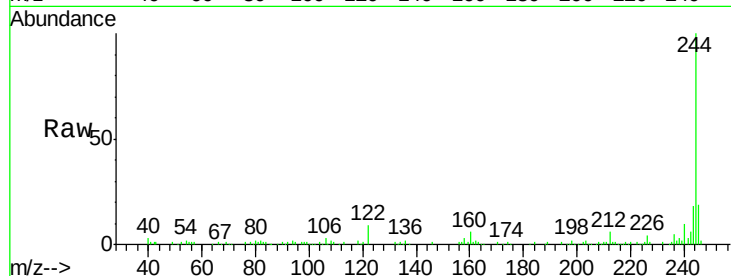
Tot Ion:244 Resp: 118448

Ion Ratio Lower Upper

244 100

212 5.7 5.6 8.4

122 8.5 10.5 15.7#



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

14.71

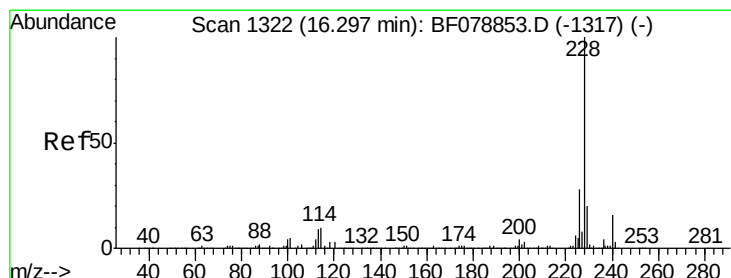
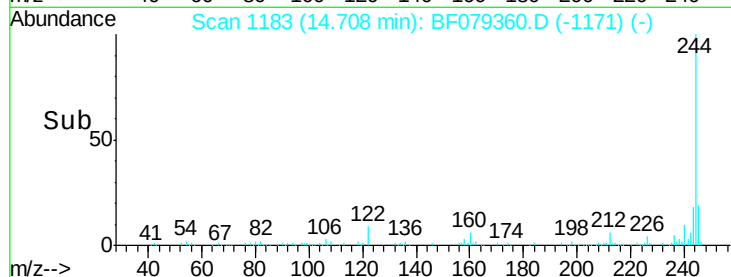
100000

50000

0

Time-->

14.65 14.70 14.75



#80

Benzo(a)anthracene

Concen: 25.05 ng m

RT: 15.98 min Scan# 1294

Delta R.T. -0.03 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

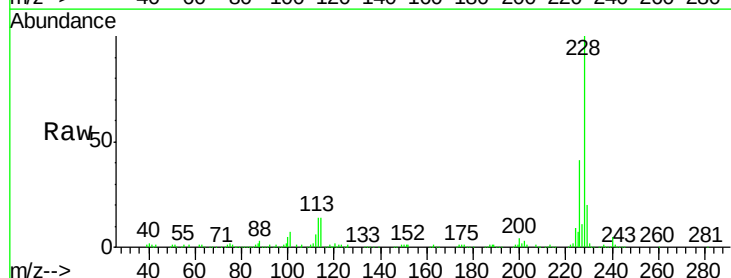
Tgt Ion:228 Resp: 242101

Ion Ratio Lower Upper

228 100

226 40.9 22.3 33.5#

229 19.8 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

15.98

200000

150000

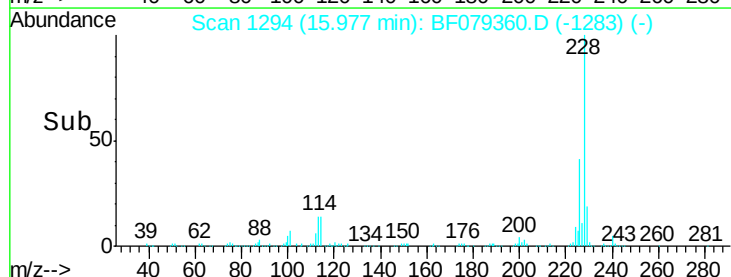
100000

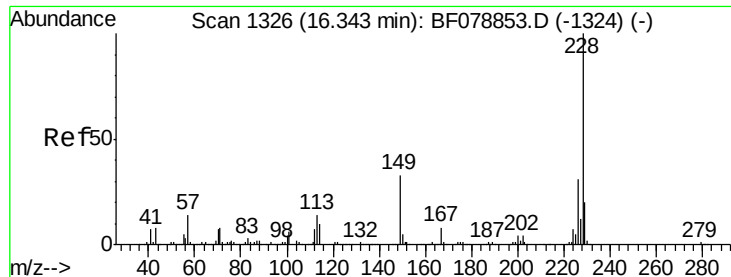
50000

0

Time-->

15.90 15.95 16.00





#82

Chrysene

Concen: 20.59 ng

RT: 16.02 min Scan# 1298

Delta R.T. -0.03 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleID :

WC-03-D1DL

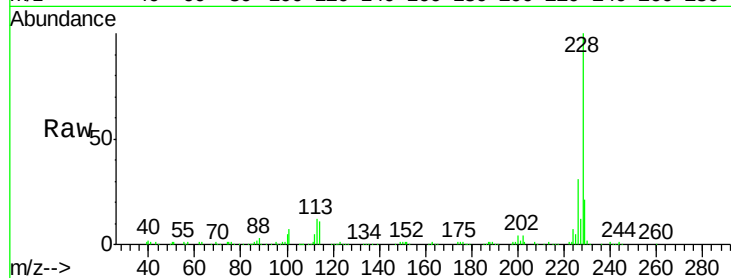
Tot Ion:228 Resp: 191392

Ion Ratio Lower Upper

228 100

226 30.9 24.8 37.2

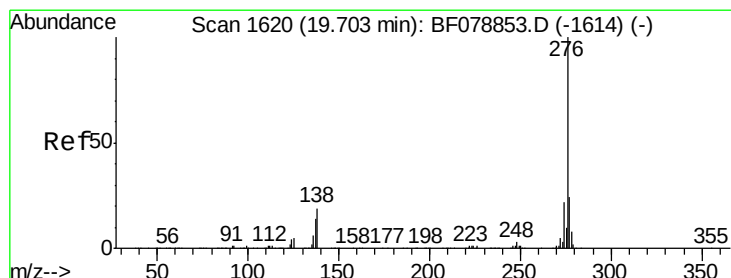
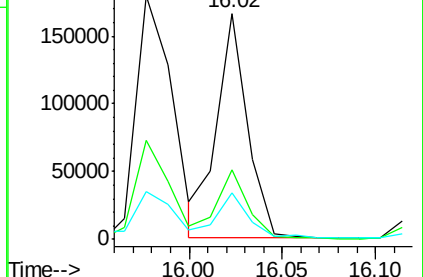
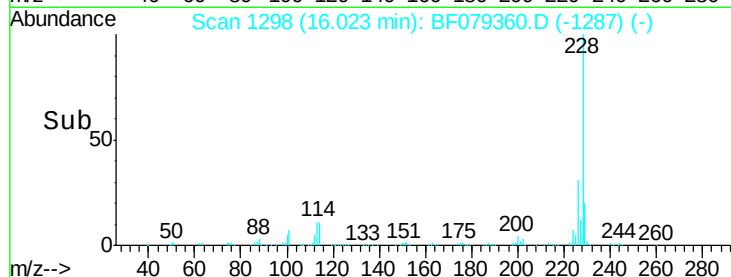
229 20.7 16.1 24.1



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 12.92 ng

RT: 19.04 min Scan# 1562

Delta R.T. -0.17 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

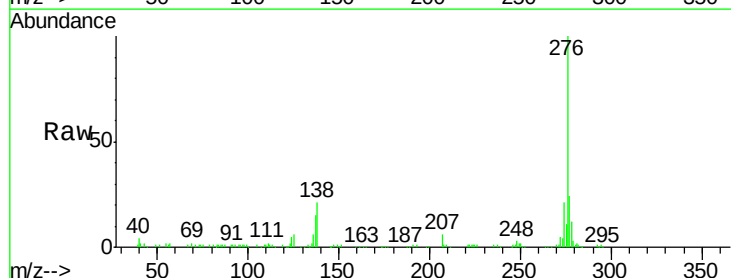
Tgt Ion:276 Resp: 153087

Ion Ratio Lower Upper

276 100

138 22.2 21.1 31.7

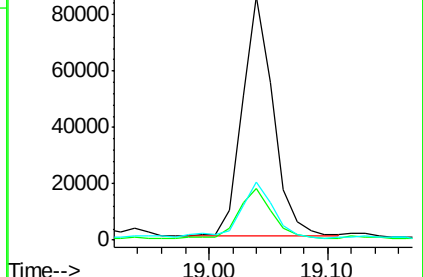
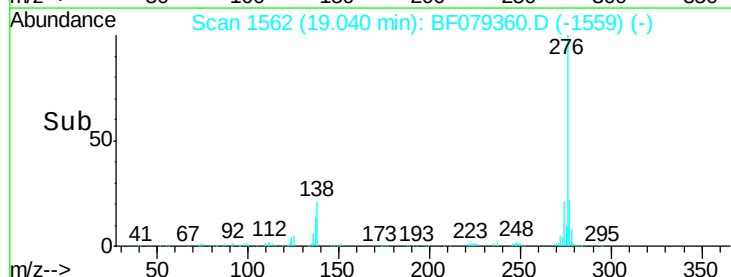
277 25.1 19.9 29.9

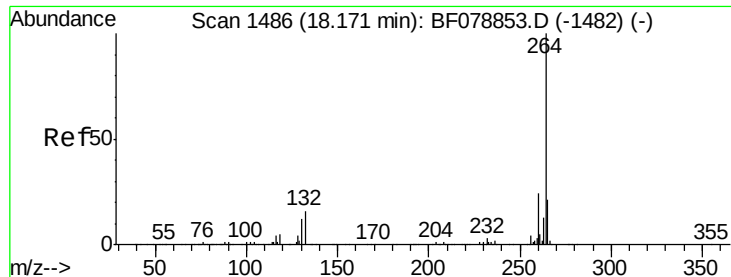


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.68 min Scan# 1443

Delta R.T. -0.14 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

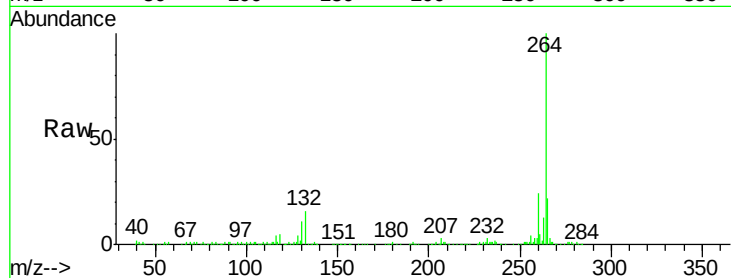
Tot Ion:264 Resp: 191154

Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

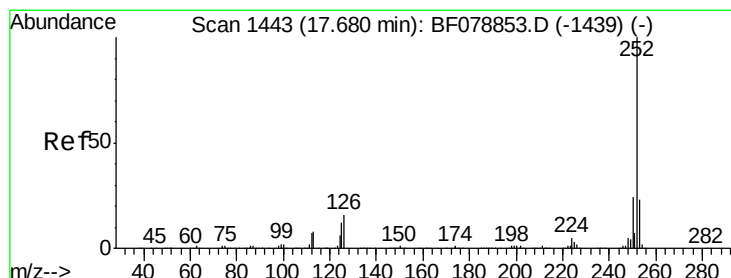
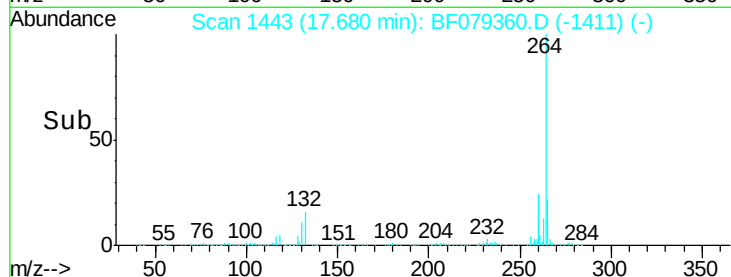
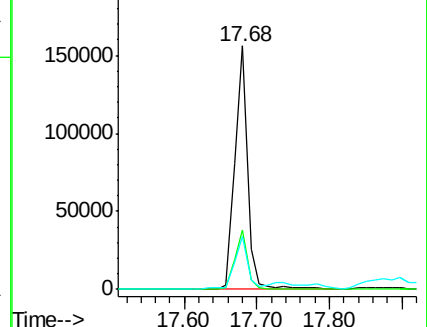
265 21.7 17.2 25.8



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: 28.80 ng m

RT: 17.25 min Scan# 1405

Delta R.T. -0.10 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

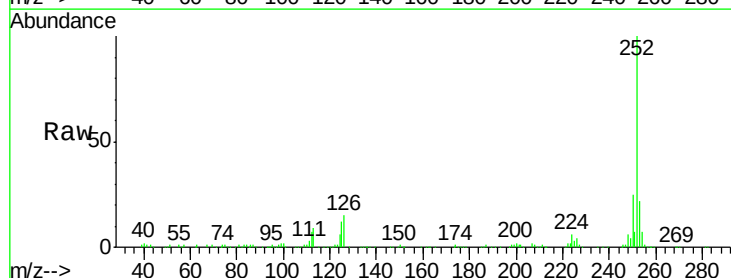
Tgt Ion:252 Resp: 301340

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

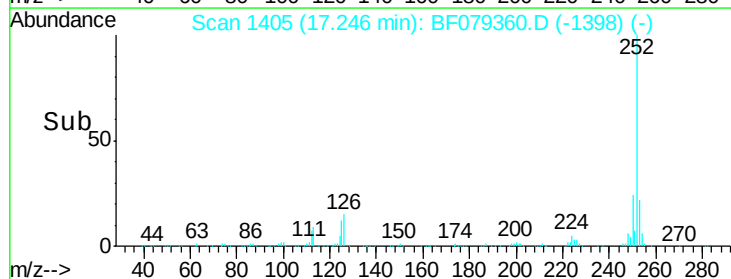
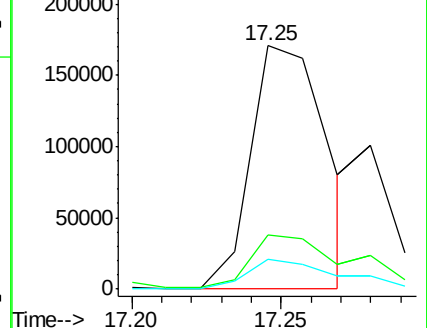
125 12.2 9.4 14.2

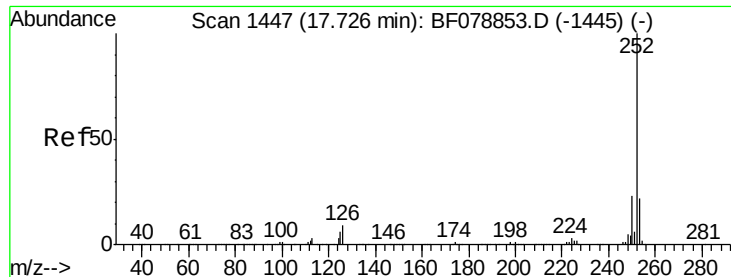


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 8.96 ng m

RT: 17.28 min Scan# 1408

Delta R.T. -0.10 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

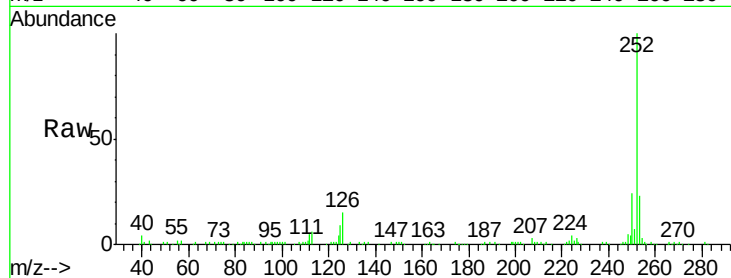
Tot Ion:252 Resp: 90774

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

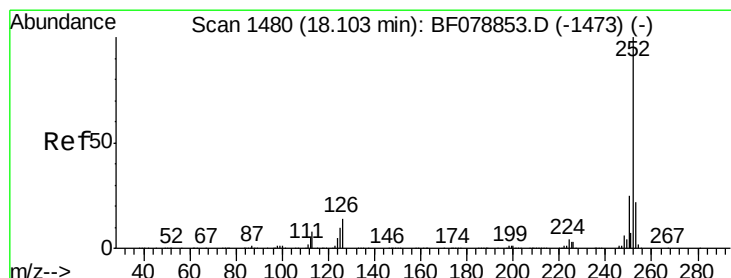
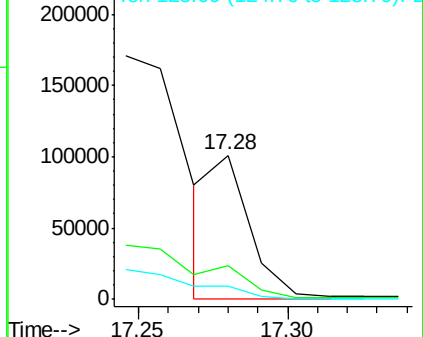
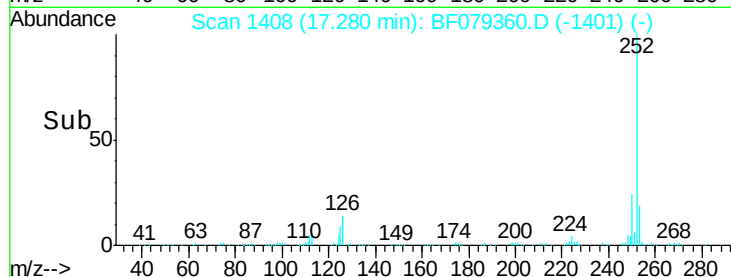
125 9.0 6.1 9.1



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: 22.51 ng

RT: 17.61 min Scan# 1437

Delta R.T. -0.14 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

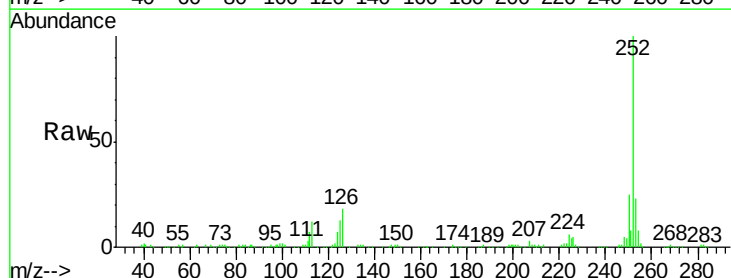
Tgt Ion:252 Resp: 216906

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

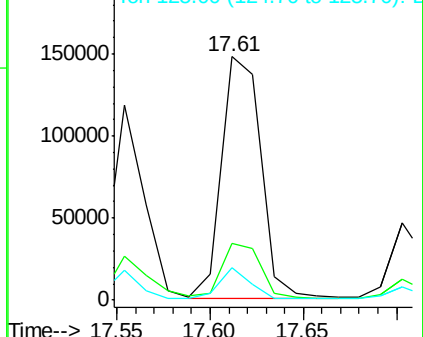
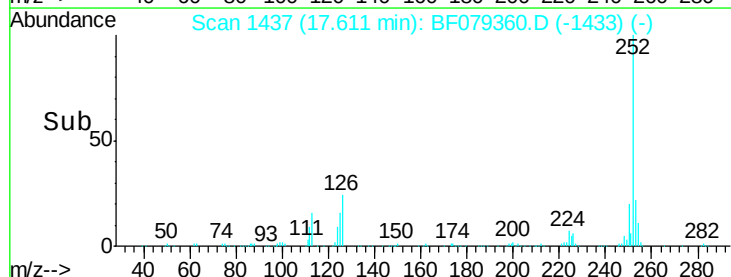
125 13.2 8.2 12.2#

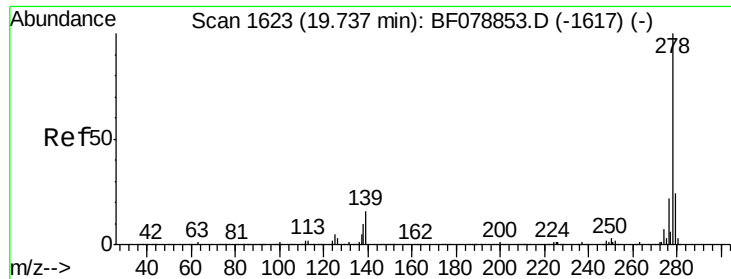


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.51 ng

RT: 19.06 min Scan# 1564

Delta R.T. -0.18 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

Instrument :

BNA_F

ClientSampleId :

WC-03-D1DL

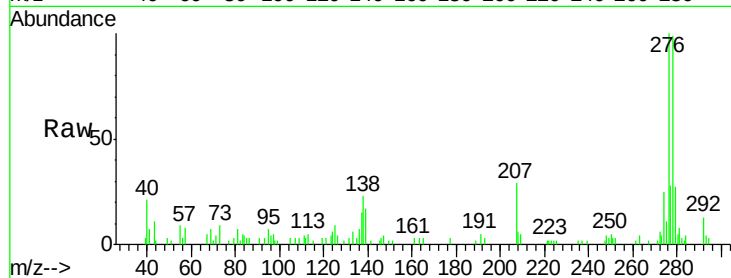
Tot Ion:278 Resp: 35932

Ion Ratio Lower Upper

278 100

139 17.4 13.1 19.7

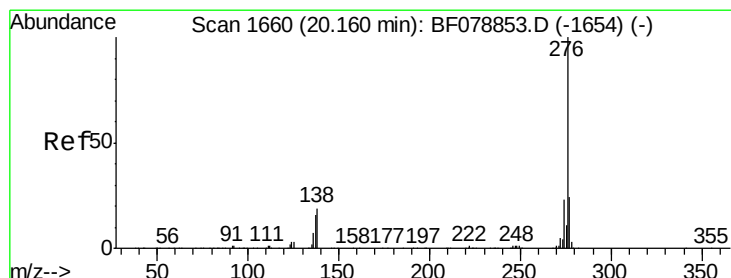
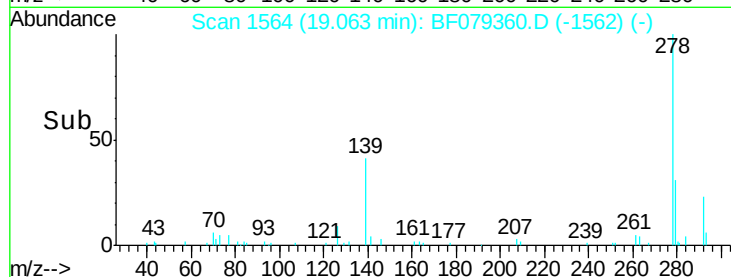
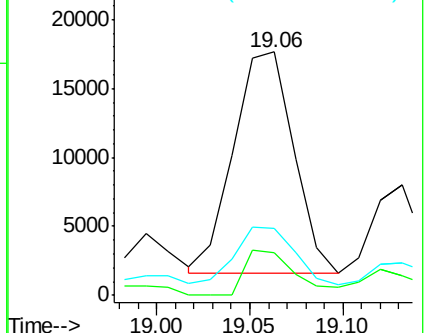
279 27.7 19.1 28.7



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: 13.97 ng

RT: 19.44 min Scan# 1597

Delta R.T. -0.18 min

Lab File: BF079360.D

Acq: 20 May 2015 2:05

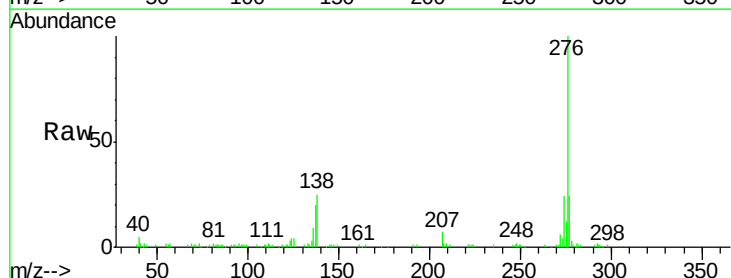
Tgt Ion:276 Resp: 143345

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 24.9 15.2 22.8#



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

