

Data Path : Z:\HPCHEM1\BNA E\Data\BE020516\
 Data File : BE091395.D
 Acq On : 5 Feb 2016 11:15
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 05 16:38:17 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	44997	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	218478	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	142107	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	360681	5.00	ng	0.00
18) Chrysene-d12	20.21	240	408987	5.00	ng	0.00
24) Perylene-d12	22.10	264	387908	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.95	112	7810	0.93	ng	0.00
3) Phenol-d6	6.56	99	12237	1.00	ng	0.00
5) Nitrobenzene-d5	8.17	82	10193	0.94	ng	0.00
9) 2,4,6-Tribromophenol	14.91	330	3840	0.87	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	34519	0.93	ng	0.00
20) Terphenyl-d14	18.62	244	59357	0.98	ng	0.00

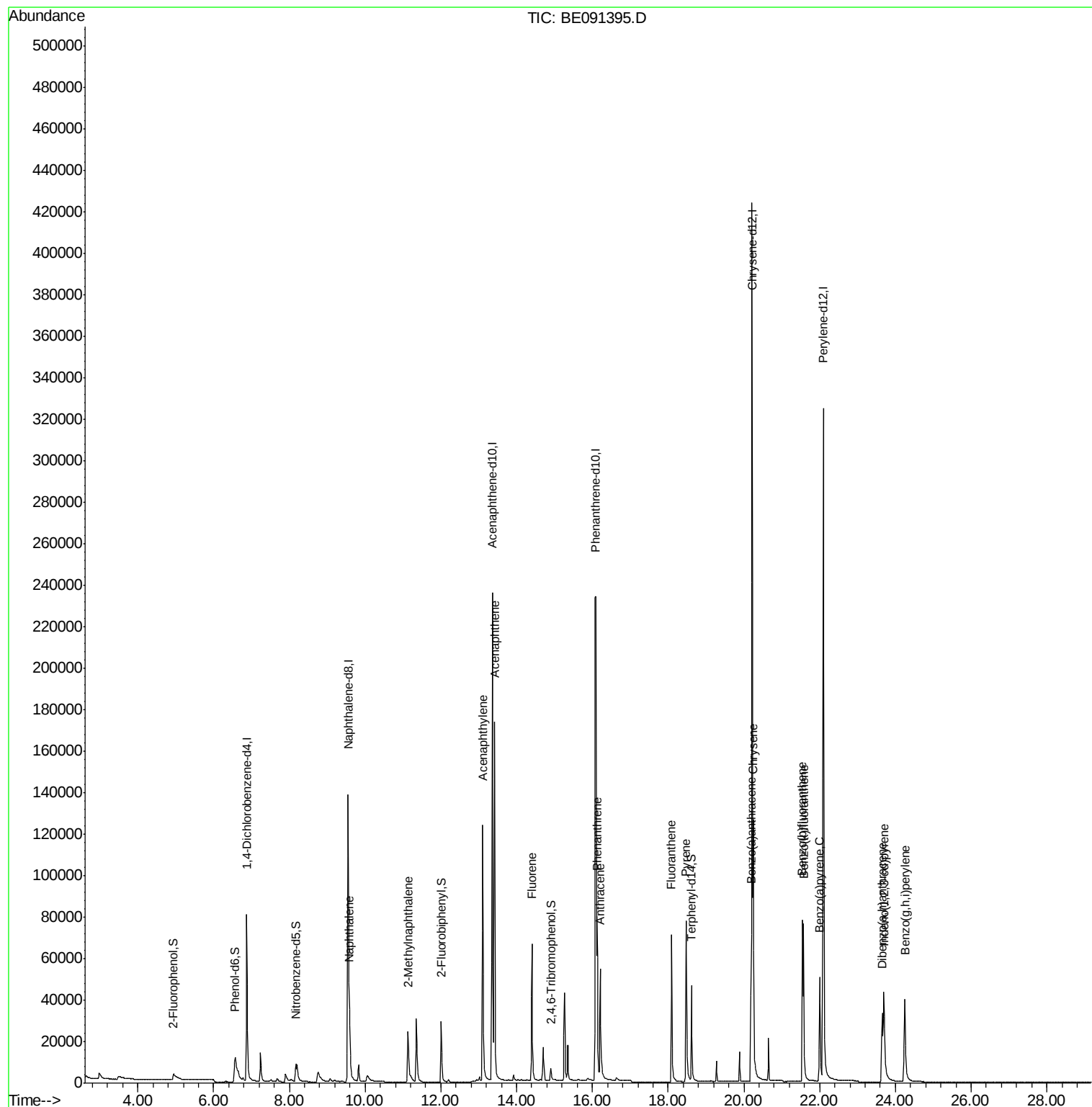
Target Compounds				Qvalue		
6) Naphthalene	9.59	128	44934	0.91	ng	100
7) 2-Methylnaphthalene	11.13	142	26075	0.96	ng	96
11) Acenaphthylene	13.10	152	190724	0.92	ng	100
12) Acenaphthene	13.42	154	34773	0.89	ng	99
13) Fluorene	14.40	166	46950	0.93	ng	100
15) Phenanthrene	16.12	178	85560	0.90	ng	99
16) Anthracene	16.21	178	74454	0.94	ng	99
17) Fluoranthene	18.09	202	80733	0.91	ng	99
19) Pyrene	18.47	202	85795	0.97	ng	100
21) Benzo(a)anthracene	20.19	228	69663	0.91	ng	99
22) Chrysene	20.25	228	102336	0.95	ng	100
23) Indeno(1,2,3-cd)pyrene	23.70	276	71786	0.91	ng	100
25) Benzo(b)fluoranthene	21.55	252	77476	0.93	ng	98
26) Benzo(k)fluoranthene	21.57	252	87521	0.92	ng	99
27) Benzo(a)pyrene	22.00	252	68026	0.91	ng	99
28) Dibenzo(a,h)anthracene	23.65	278	59502	0.89	ng	99
29) Benzo(g,h,i)perylene	24.25	276	77837	0.93	ng	99

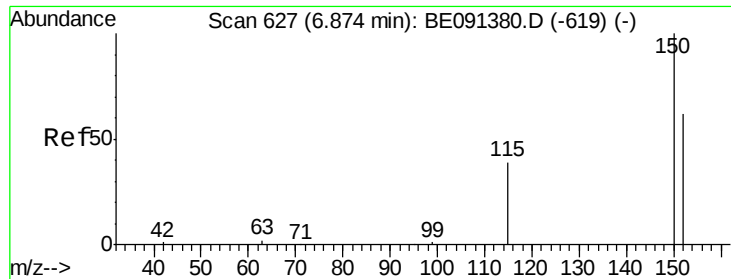
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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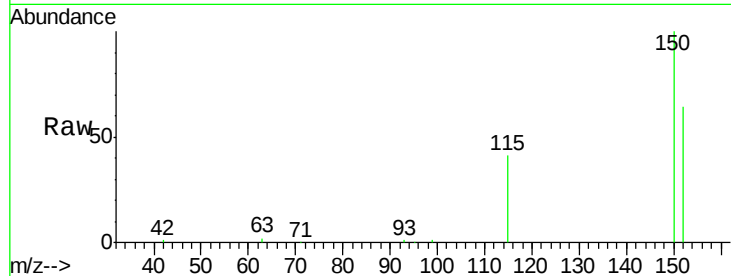


#1

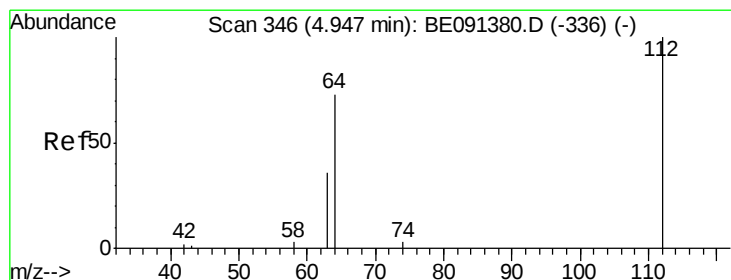
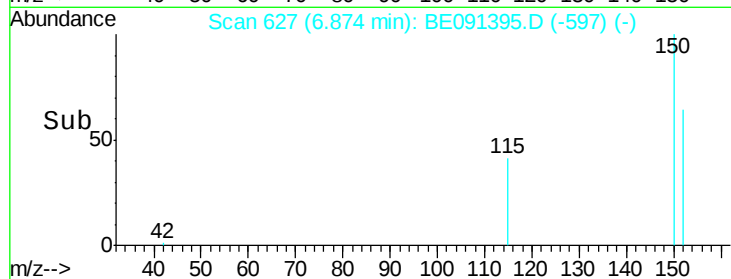
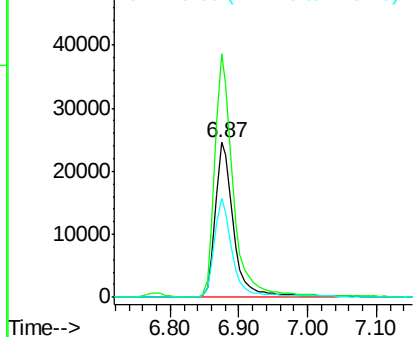
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 44997
Ion Ratio Lower Upper
152 100
150 157.2 128.9 193.3
115 64.3 50.9 76.3



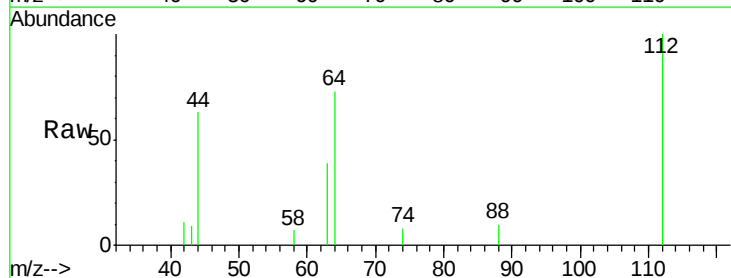
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



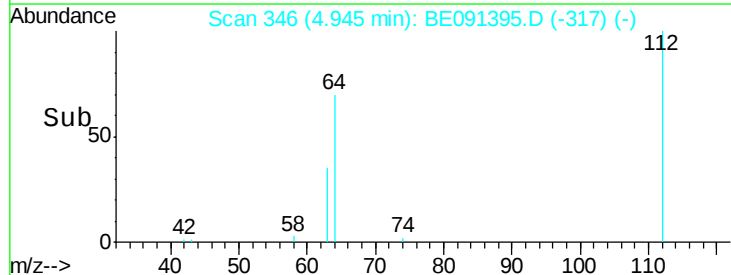
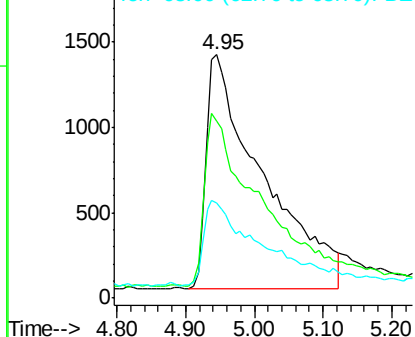
#2

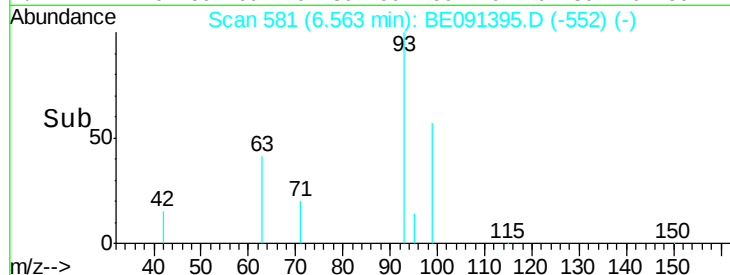
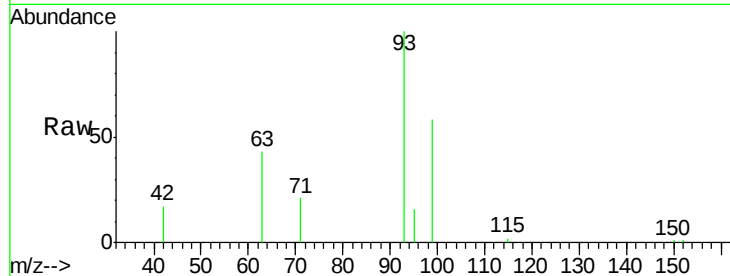
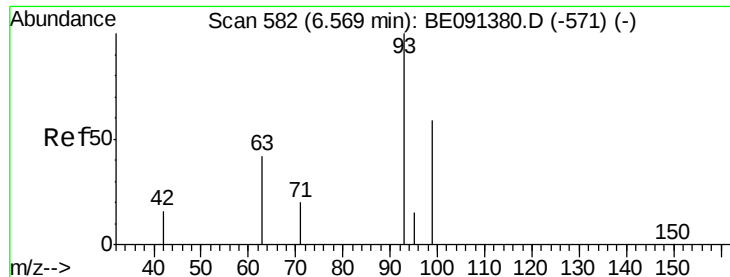
2-Fluorophenol
Concen: 0.93 ng
RT: 4.95 min Scan# 346
Delta R.T. -0.00 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

Tgt Ion:112 Resp: 7810
Ion Ratio Lower Upper
112 100
64 73.9 60.5 90.7
63 37.6 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 1.00 ng

RT: 6.56 min Scan# 581

Delta R.T. -0.01 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

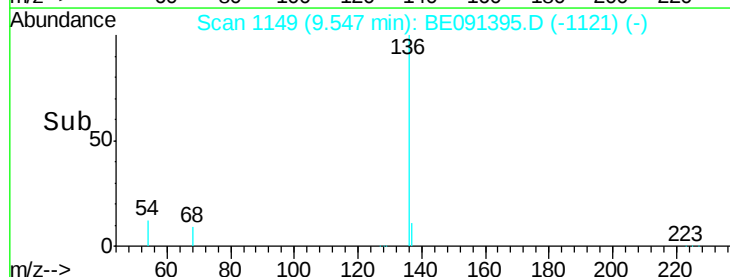
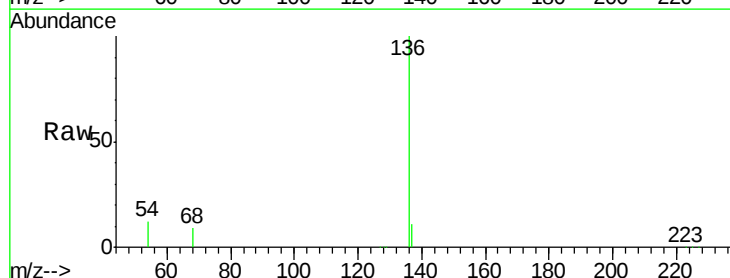
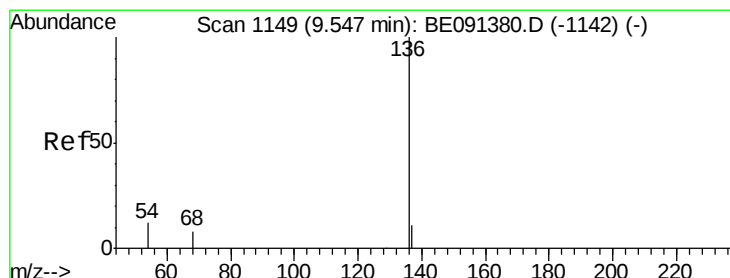
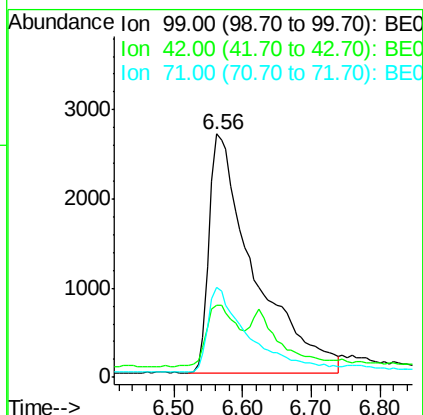
Tot Ion: 99 Resp: 12237

Ion Ratio Lower Upper

99 100

42 17.5 13.3 19.9

71 32.2 25.6 38.4



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Tgt Ion: 136 Resp: 218478

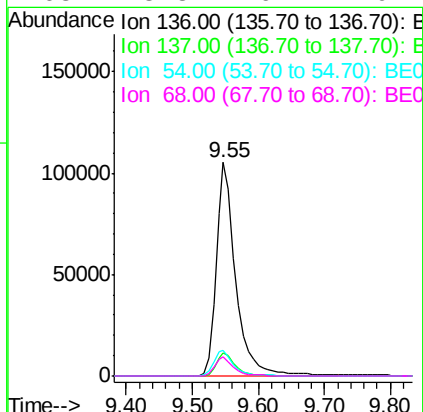
Ion Ratio Lower Upper

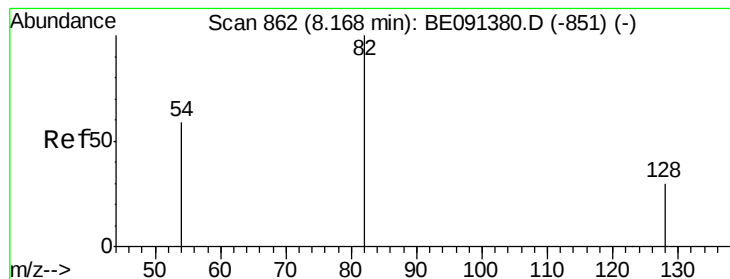
136 100

137 11.0 8.7 13.1

54 12.2 9.3 13.9

68 8.8 6.7 10.1





#5

Nitrobenzene-d5

Concen: 0.94 ng

RT: 8.17 min Scan# 862

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

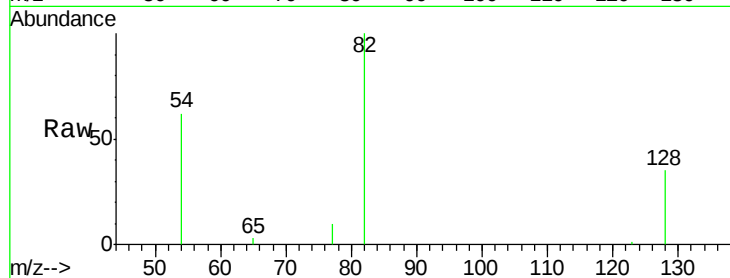
Tot Ion: 82 Resp: 10193

Ion Ratio Lower Upper

82 100

128 35.0 25.0 37.4

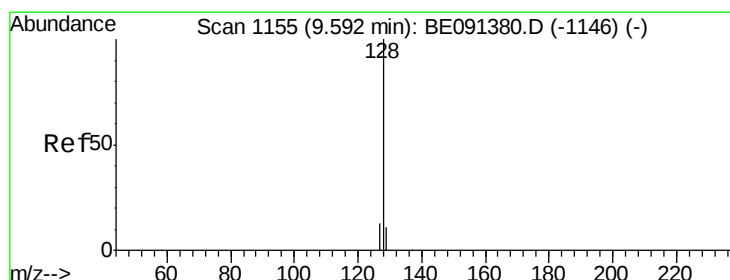
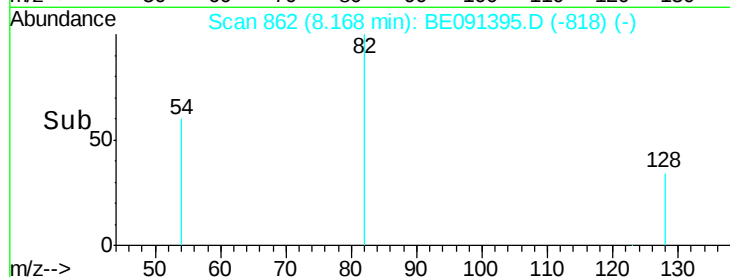
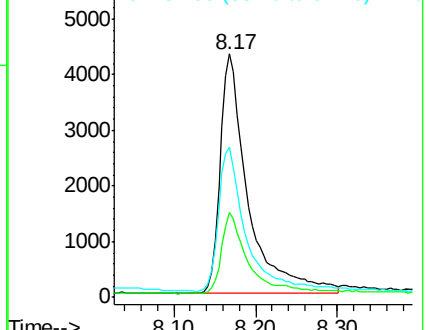
54 61.5 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091380.D (-851) (-)

Ion 128.00 (127.70 to 128.70): BE091380.D (-851) (-)

Ion 54.00 (53.70 to 54.70): BE091380.D (-851) (-)



#6

Naphthalene

Concen: 0.91 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

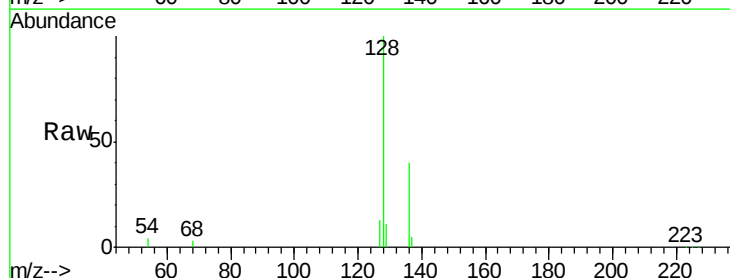
Tgt Ion: 128 Resp: 44934

Ion Ratio Lower Upper

128 100

129 11.4 9.1 13.7

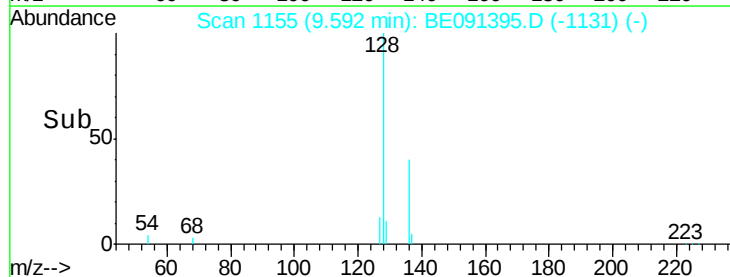
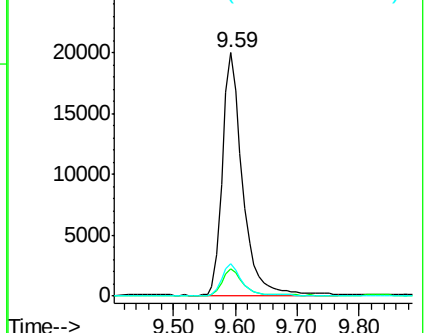
127 13.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE091380.D (-1146) (-)

Ion 129.00 (128.70 to 129.70): BE091380.D (-1146) (-)

Ion 127.00 (126.70 to 127.70): BE091380.D (-1146) (-)





#7

2-Methylnaphthalene

Concen: 0.96 ng

RT: 11.13 min Scan# 1410

Delta R.T. 0.01 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampled :

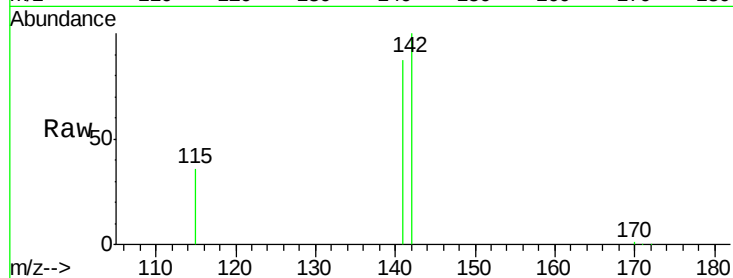
Tot Ion:142 Resp: 26075

Ion Ratio Lower Upper

142 100

141 87.2 72.3 108.5

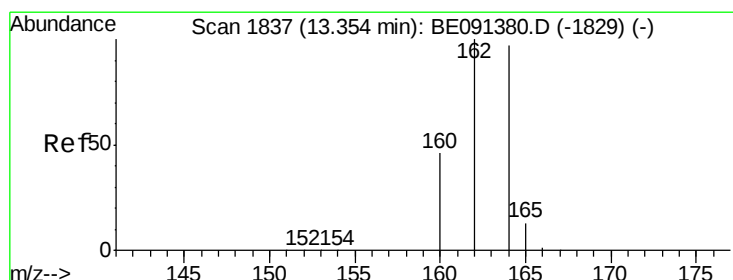
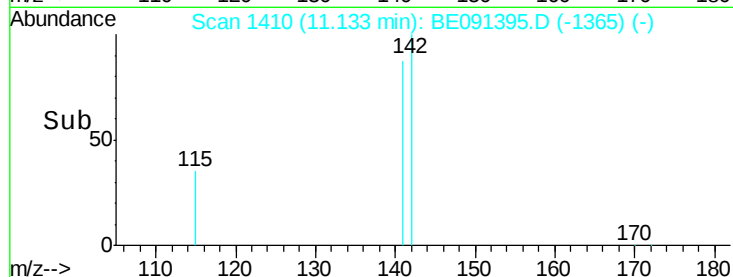
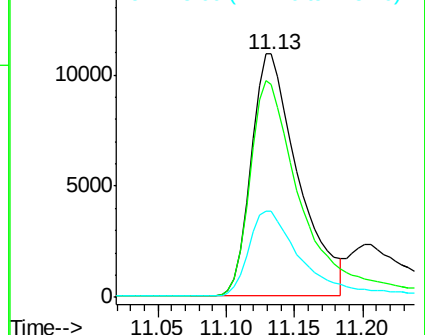
115 35.6 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1837

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

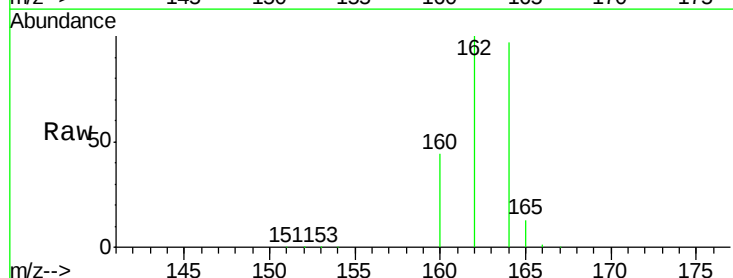
Tgt Ion:164 Resp: 142107

Ion Ratio Lower Upper

164 100

162 102.8 82.2 123.2

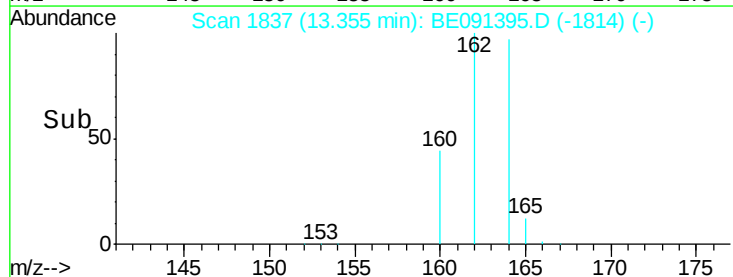
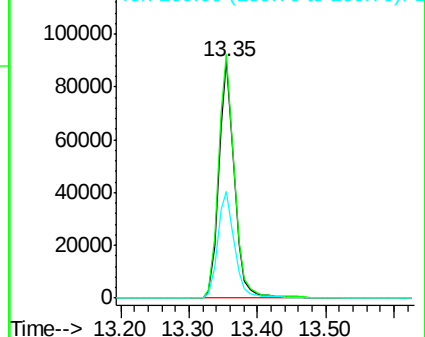
160 44.9 37.8 56.8



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

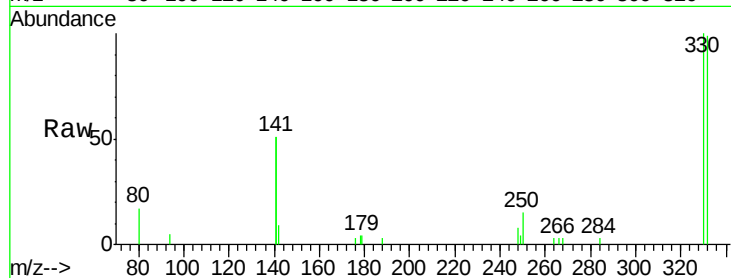




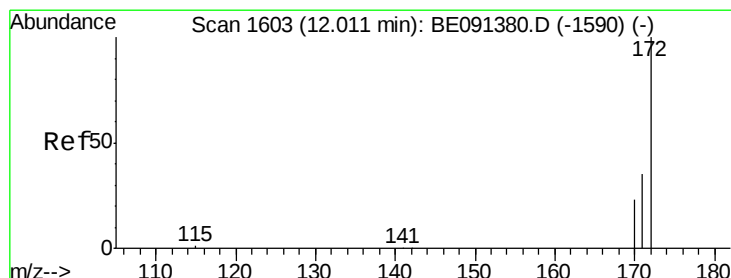
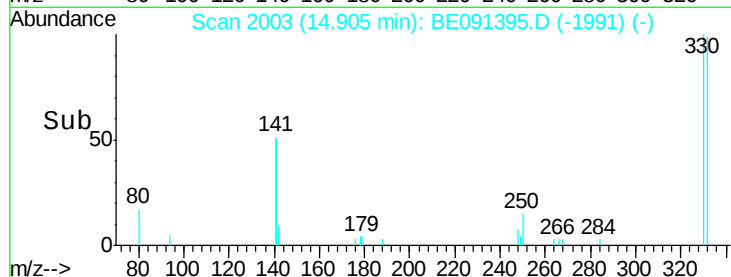
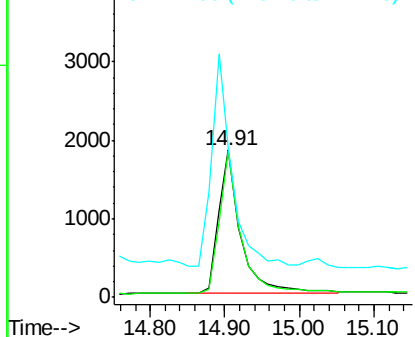
#9
 2,4,6-Tribromophenol
 Concen: 0.87 ng
 RT: 14.91 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: BE091395.D
 Acq: 5 Feb 2016 11:15

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 3840
 Ion Ratio Lower Upper
 330 100
 332 96.2 78.8 118.2
 141 130.7 105.1 157.7

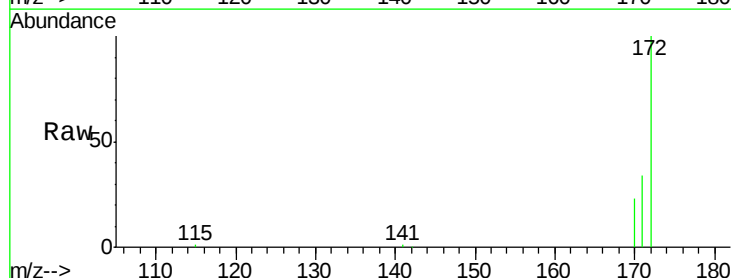


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

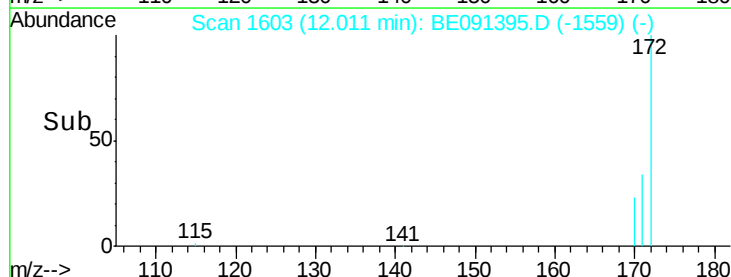
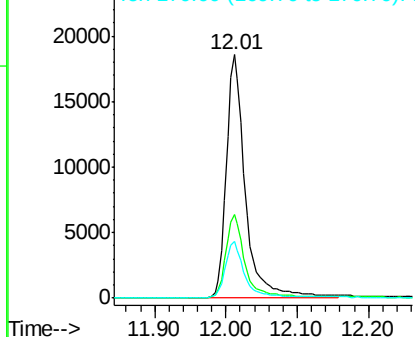


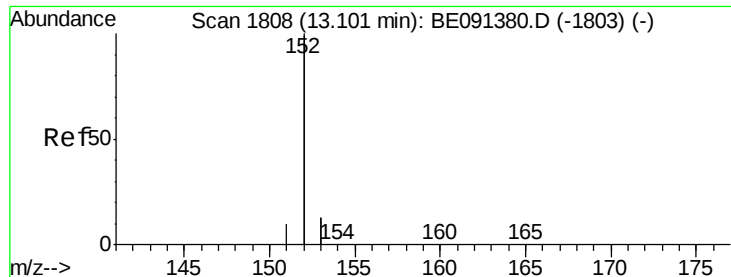
#10
 2-Fluorobiphenyl
 Concen: 0.93 ng
 RT: 12.01 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: BE091395.D
 Acq: 5 Feb 2016 11:15

Tgt Ion:172 Resp: 34519
 Ion Ratio Lower Upper
 172 100
 171 34.2 27.8 41.8
 170 23.5 18.6 28.0



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





#11

Acenaphthylene

Concen: 0.92 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

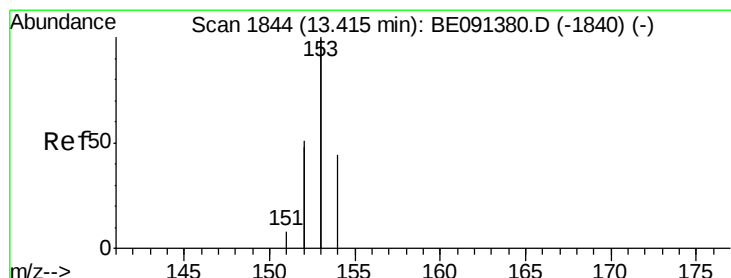
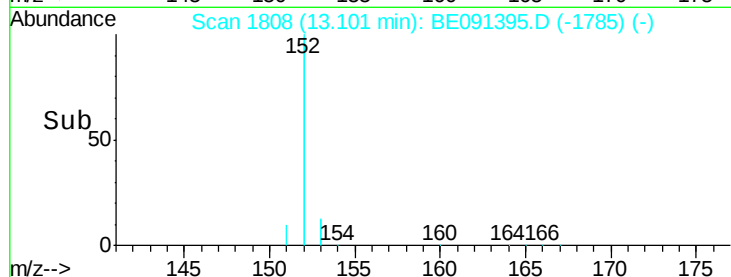
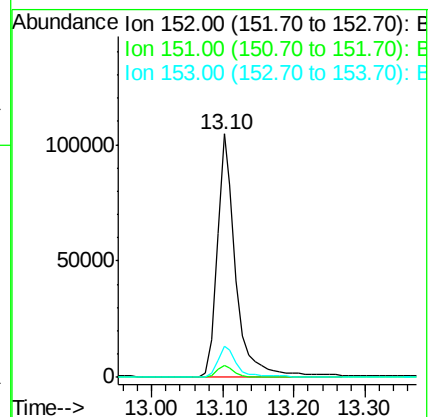
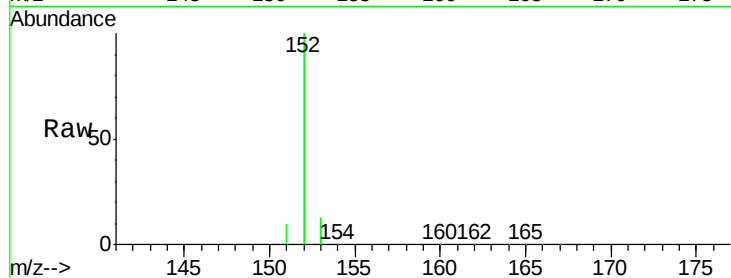
Tot Ion:152 Resp: 190724

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

153 12.9 10.2 15.4



#12

Acenaphthene

Concen: 0.89 ng

RT: 13.42 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

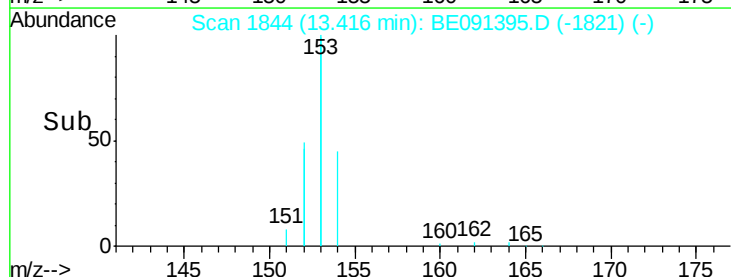
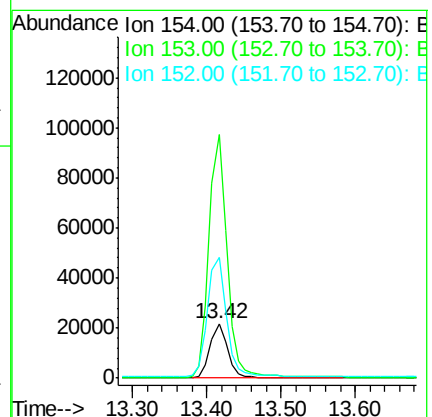
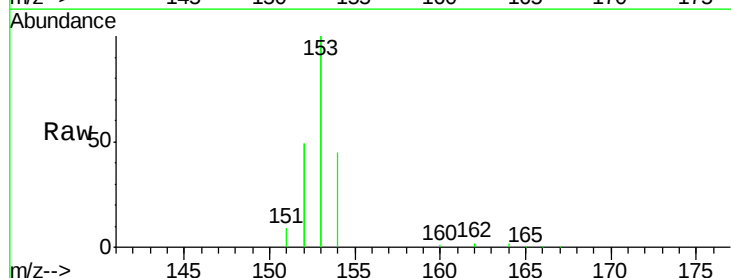
Tgt Ion:154 Resp: 34773

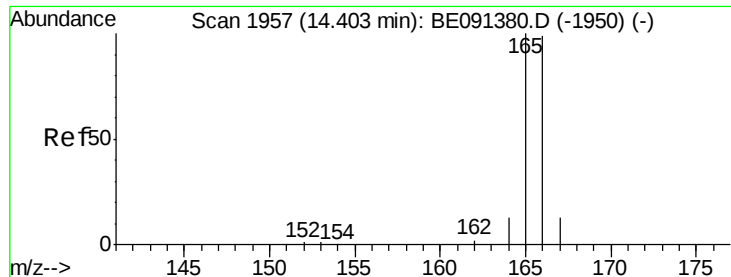
Ion Ratio Lower Upper

154 100

153 460.9 369.8 554.8

152 237.5 194.4 291.6





#13

Fluorene

Concen: 0.93 ng

RT: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

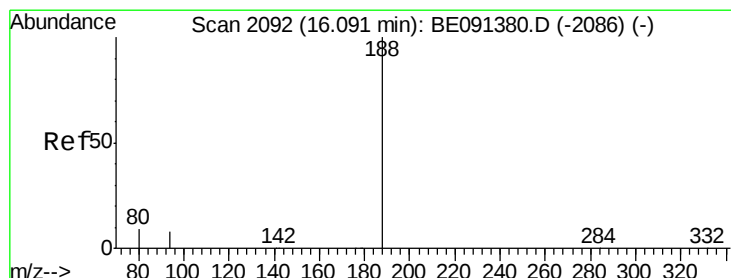
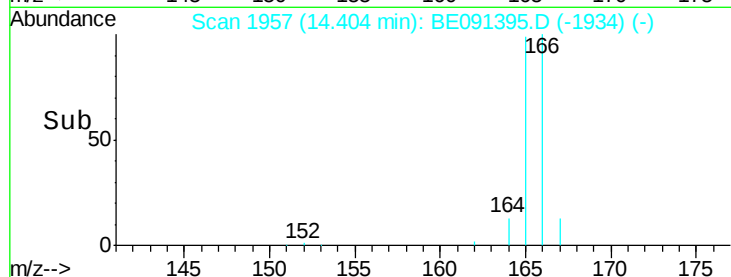
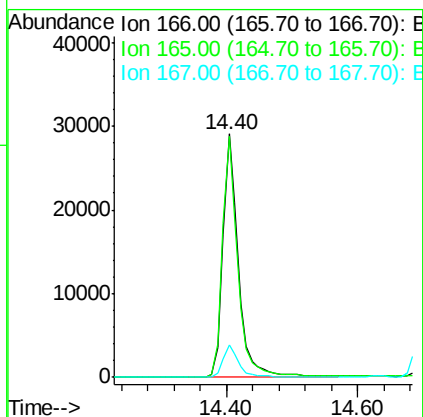
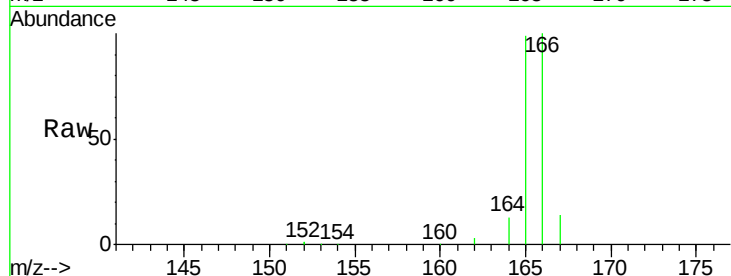
Tot Ion:166 Resp: 46950

Ion Ratio Lower Upper

166 100

165 98.7 79.3 118.9

167 13.6 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

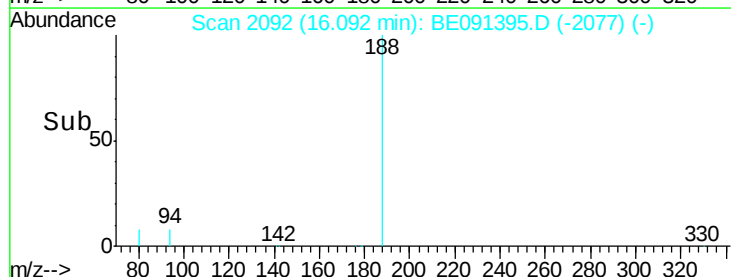
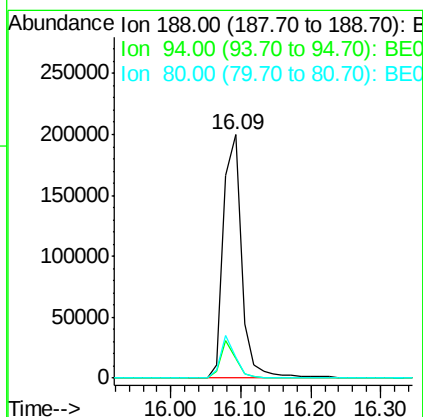
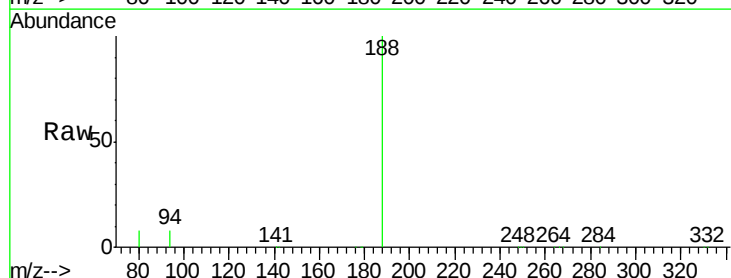
Tgt Ion:188 Resp: 360681

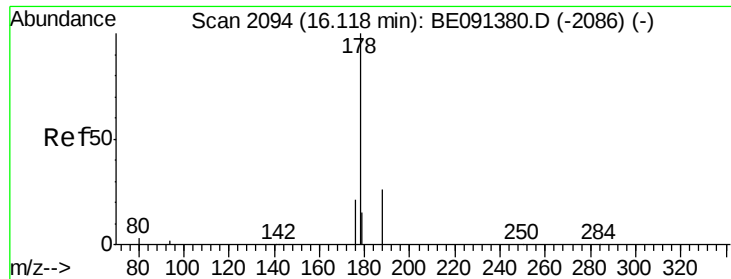
Ion Ratio Lower Upper

188 100

94 7.9 6.6 10.0

80 8.4 7.0 10.6

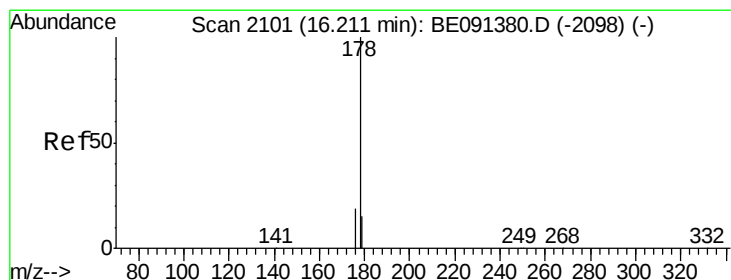
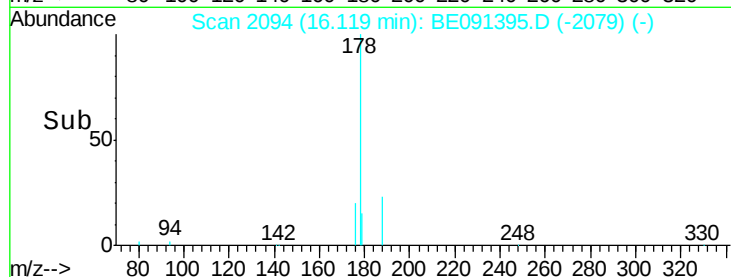
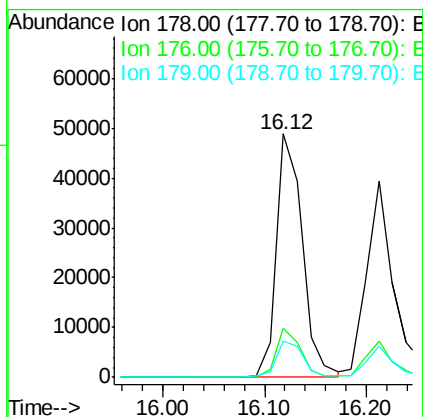
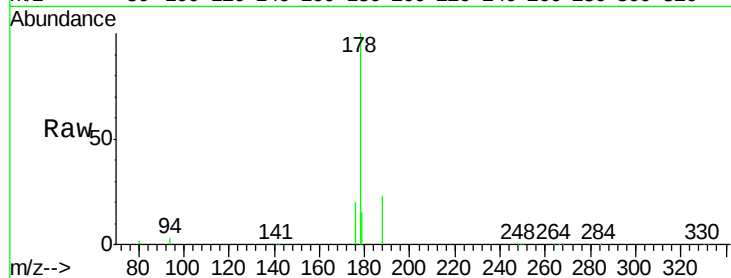




#15
Phenanthrene
Concen: 0.90 ng
RT: 16.12 min Scan# 2094
Delta R.T. 0.00 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

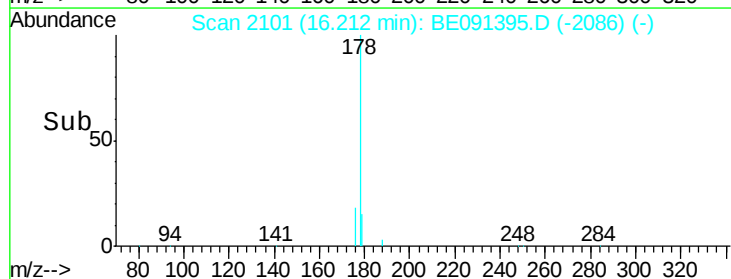
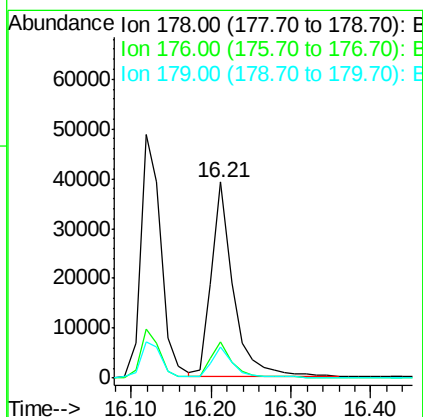
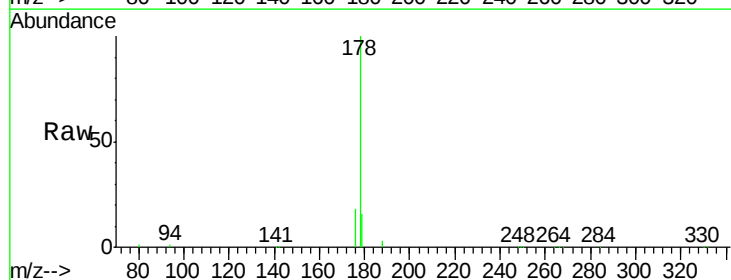
Instrument :
BNA_E
ClientSampleId :

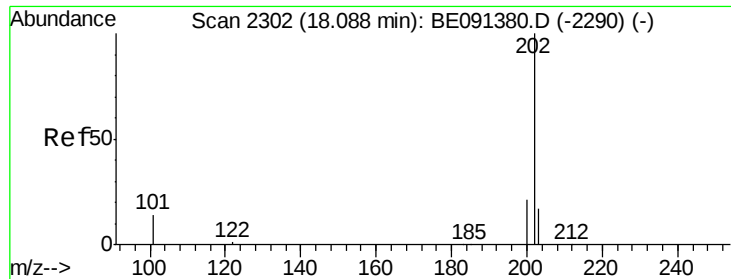
Tot Ion:178 Resp: 85560
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.7 19.1



#16
Anthracene
Concen: 0.94 ng
RT: 16.21 min Scan# 2101
Delta R.T. 0.00 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

Tgt Ion:178 Resp: 74454
Ion Ratio Lower Upper
178 100
176 18.2 14.8 22.2
179 15.5 12.1 18.1

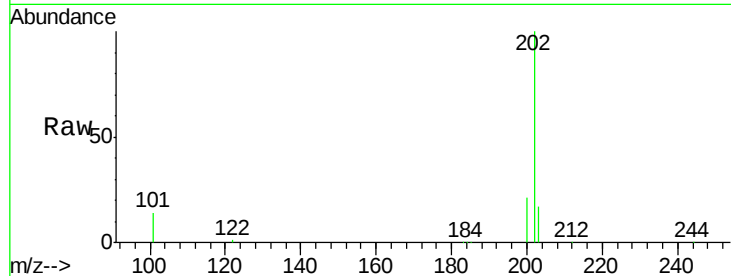




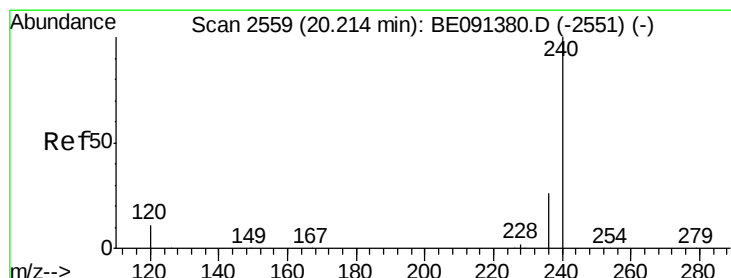
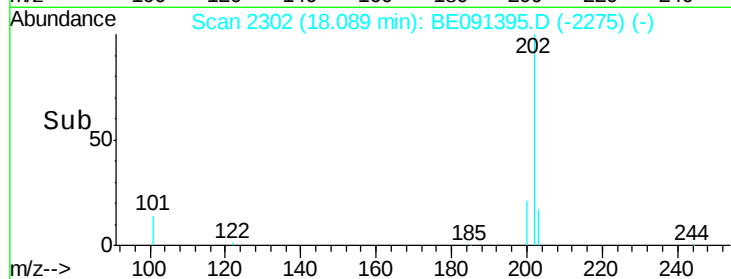
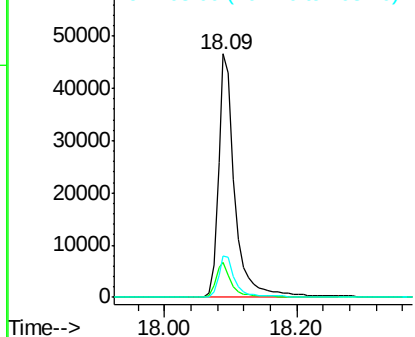
#17
 Fluoranthene
 Concen: 0.91 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE091395.D
 Acq: 5 Feb 2016 11:15

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:202 Resp: 80733
 Ion Ratio Lower Upper
 202 100
 101 13.9 10.5 15.7
 203 17.4 13.9 20.9

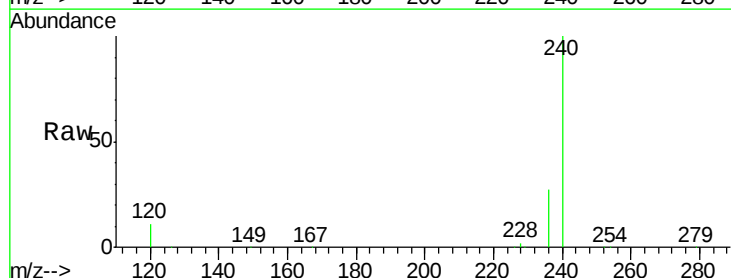


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

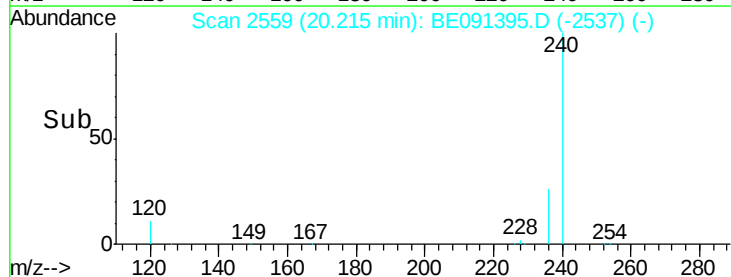
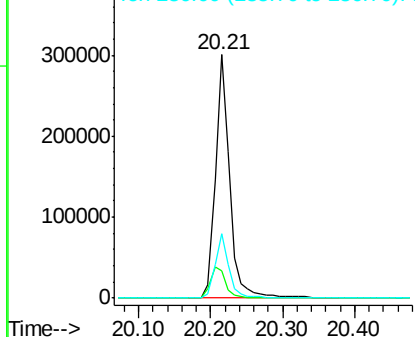


#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091395.D
 Acq: 5 Feb 2016 11:15

Tgt Ion:240 Resp: 408987
 Ion Ratio Lower Upper
 240 100
 120 11.4 8.9 13.3
 236 26.5 21.0 31.4



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





#19

Pvrene

Concen: 0.97 ng

RT: 18.47 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BE091395.D

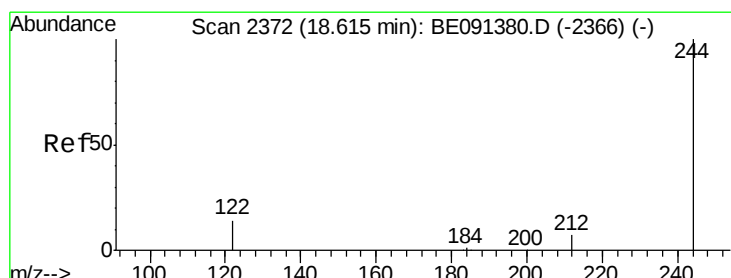
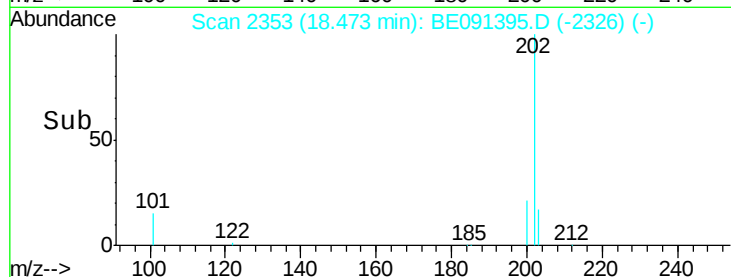
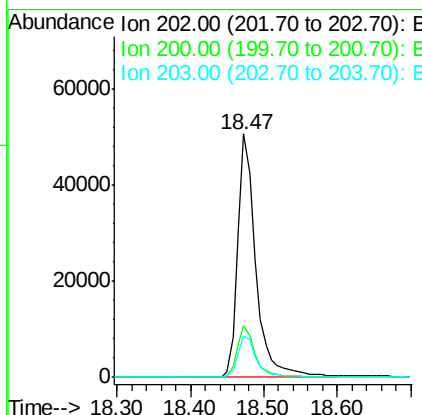
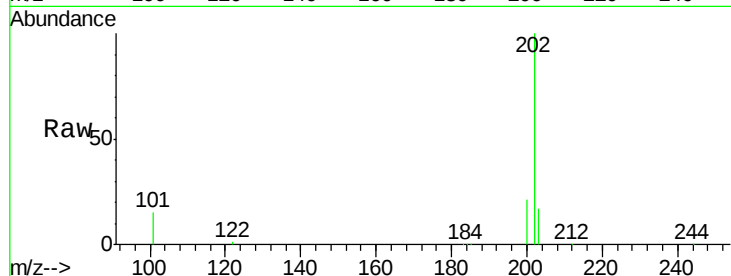
Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	202	Resp:	85795
Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.4	14.0	21.0



#20

Terphenyl-d14

Concen: 0.98 ng

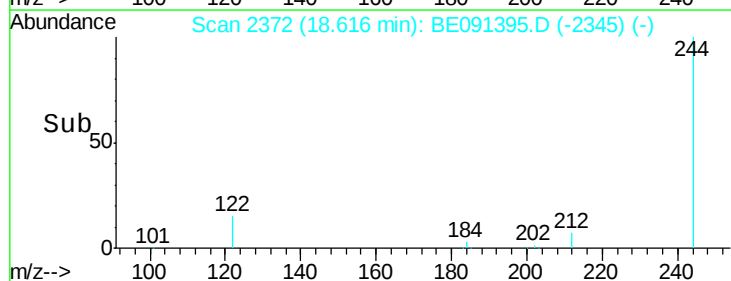
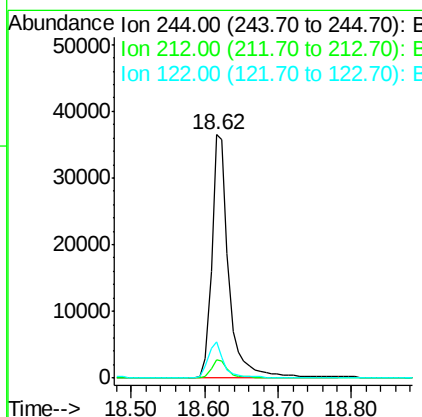
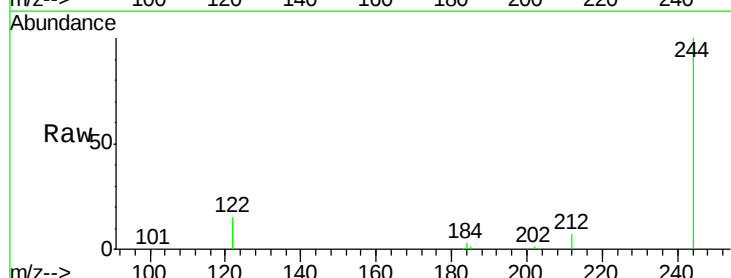
RT: 18.62 min Scan# 2372

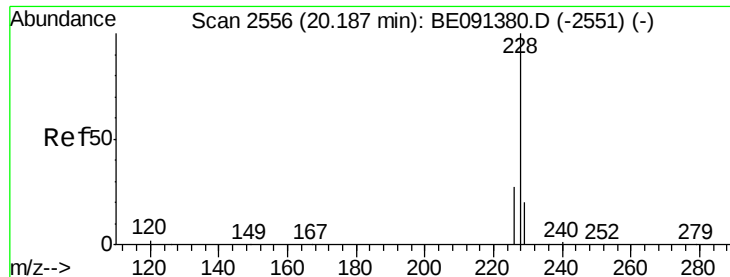
Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Tgt Ion:	244	Resp:	59357
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.1	9.1
122	14.9	11.0	16.6





#21

Benzo(a)anthracene

Concen: 0.91 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

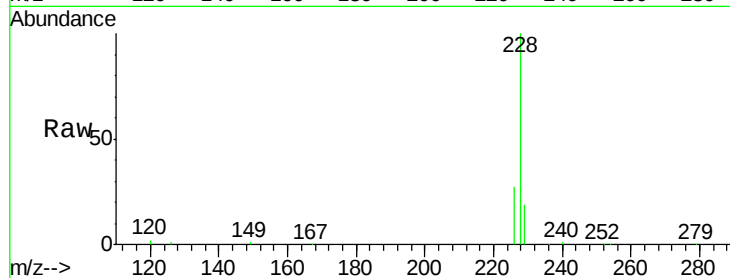
Tot Ion:228 Resp: 69663

Ion Ratio Lower Upper

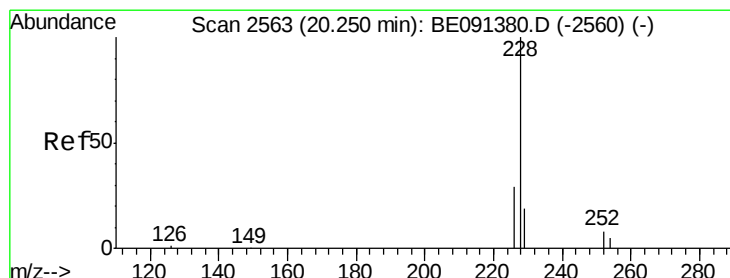
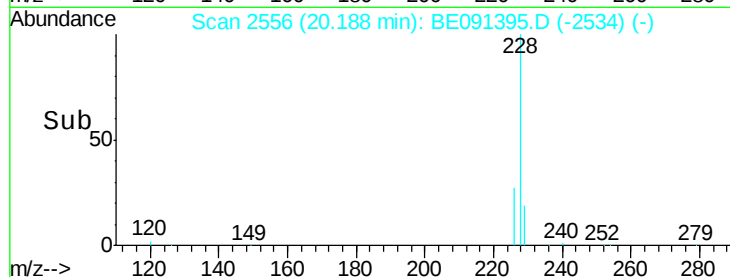
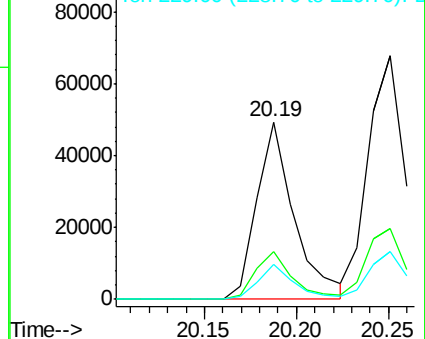
228 100

226 26.8 21.7 32.5

229 19.5 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



#22

Chrysene

Concen: 0.95 ng

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

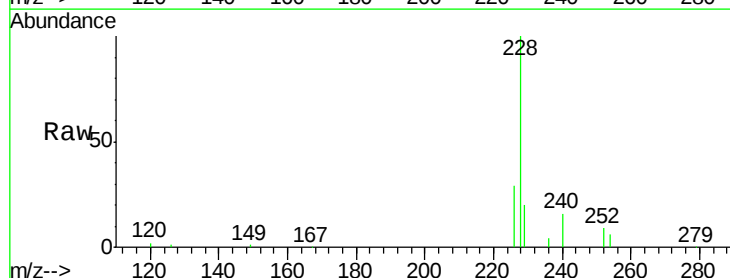
Tgt Ion:228 Resp: 102336

Ion Ratio Lower Upper

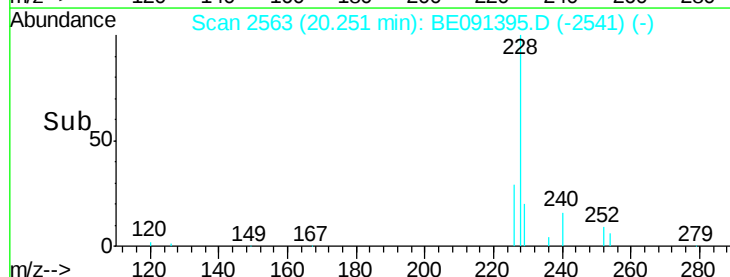
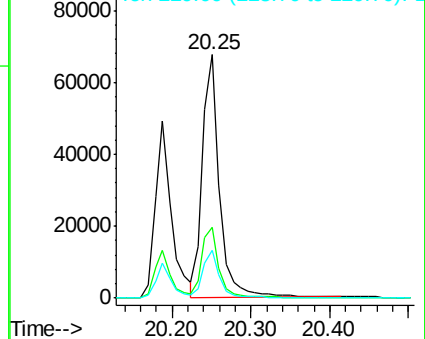
228 100

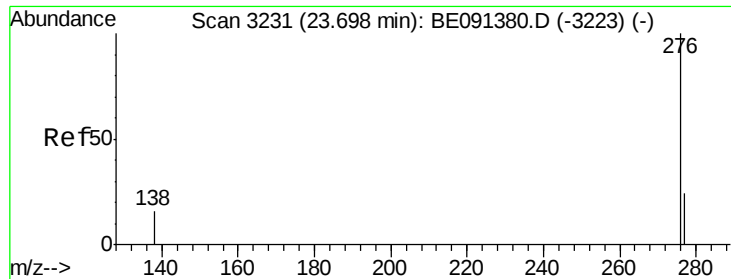
226 29.2 23.4 35.0

229 19.6 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

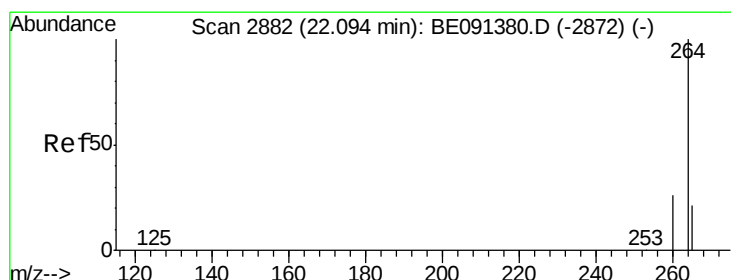
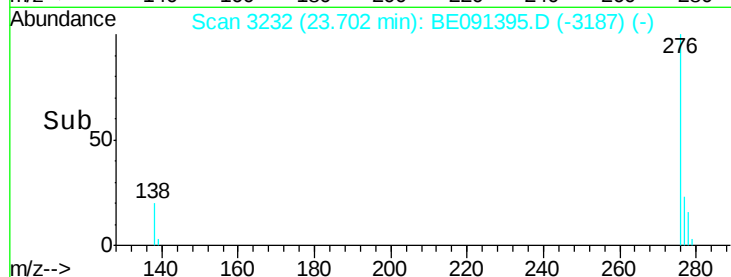
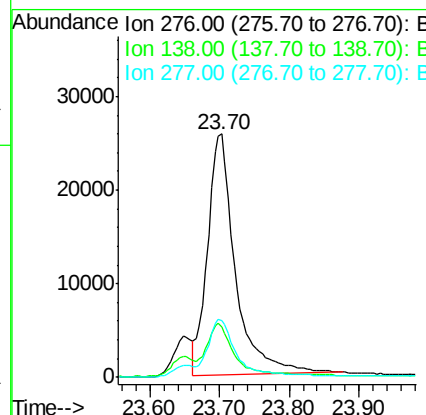
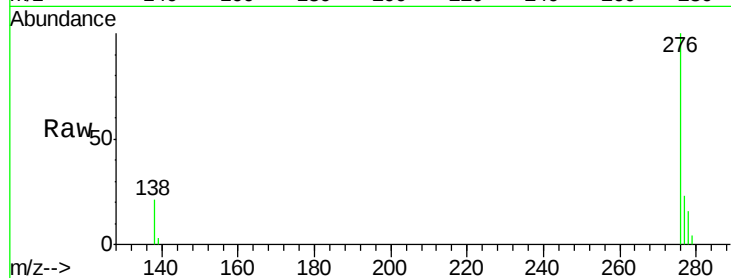




#23
Indeno(1,2,3-cd)pyrene
Concen: 0.91 ng
RT: 23.70 min Scan# 3232
Delta R.T. 0.01 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

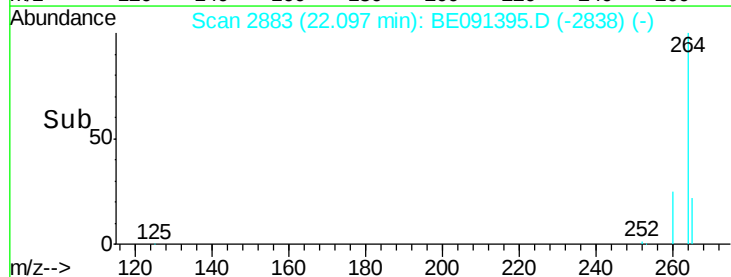
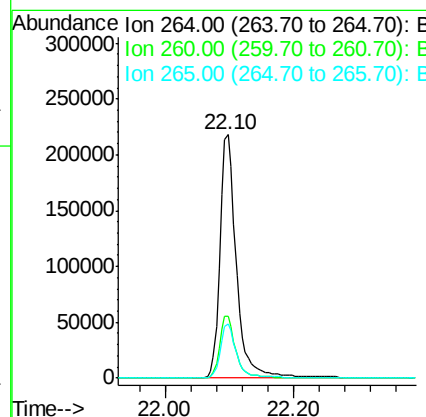
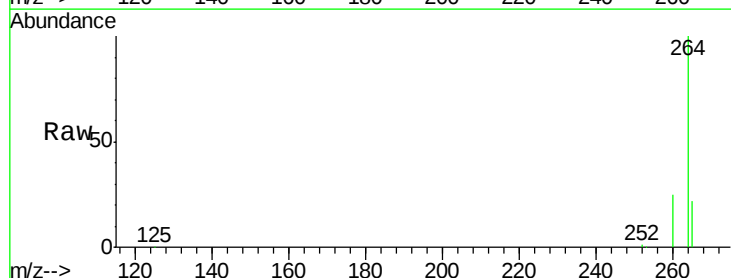
Instrument :
BNA_E
ClientSampleId :

Tot Ion:276 Resp: 71786
Ion Ratio Lower Upper
276 100
138 20.9 16.6 25.0
277 24.0 19.0 28.6



#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2883
Delta R.T. 0.00 min
Lab File: BE091395.D
Acq: 5 Feb 2016 11:15

Tgt Ion:264 Resp: 387908
Ion Ratio Lower Upper
264 100
260 25.3 20.7 31.1
265 22.3 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 0.93 ng

RT: 21.55 min Scan# 2762

Delta R.T. -0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :

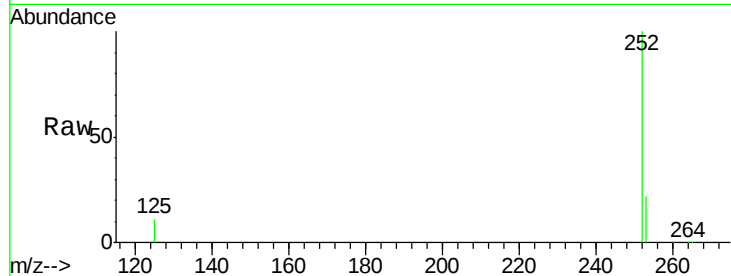
Tot Ion:252 Resp: 77476

Ion Ratio Lower Upper

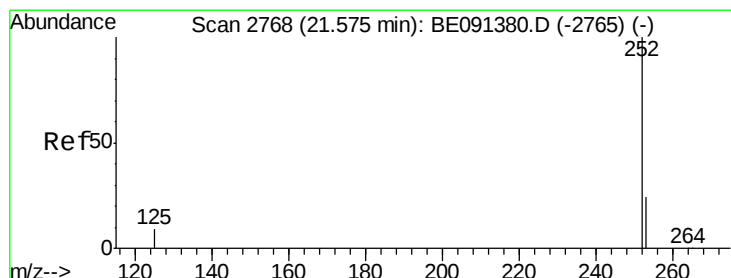
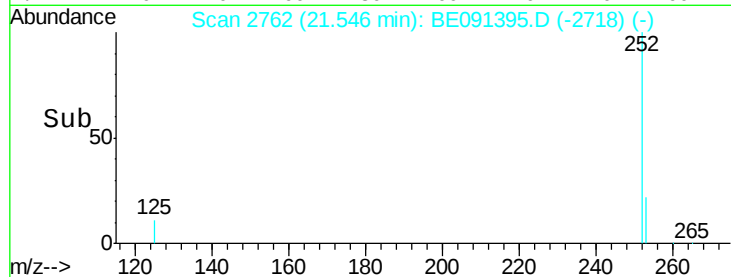
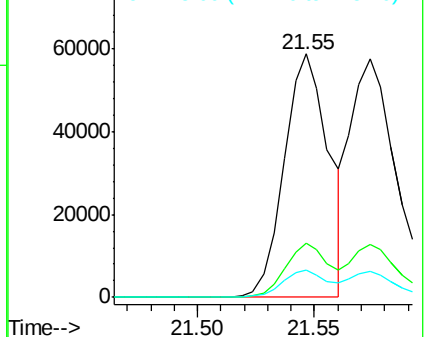
252 100

253 22.1 18.2 27.2

125 11.1 8.3 12.5



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



#26

Benzo(k)fluoranthene

Concen: 0.92 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

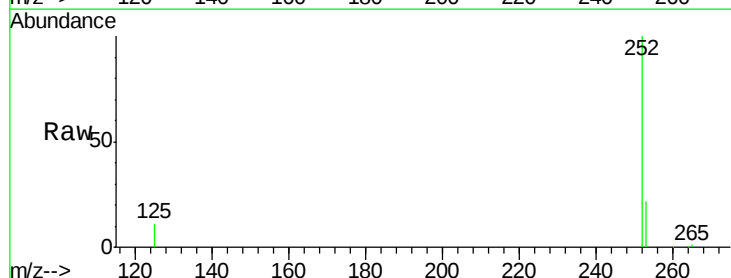
Tgt Ion:252 Resp: 87521

Ion Ratio Lower Upper

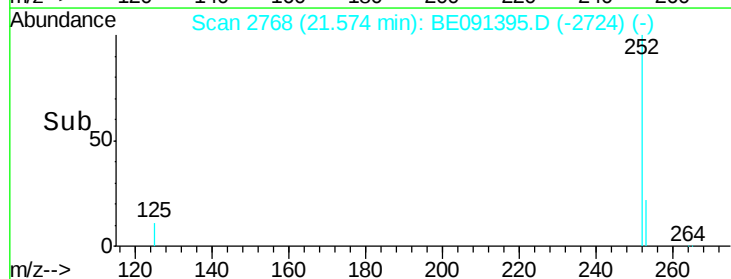
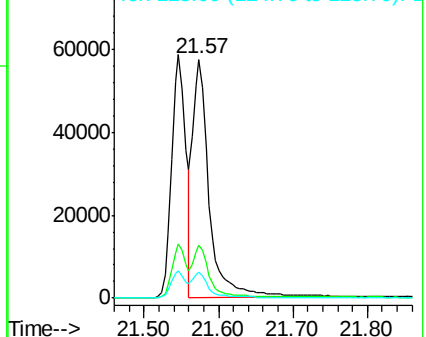
252 100

253 22.1 18.1 27.1

125 11.1 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





#27

Benzo(a)pyrene

Concen: 0.91 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

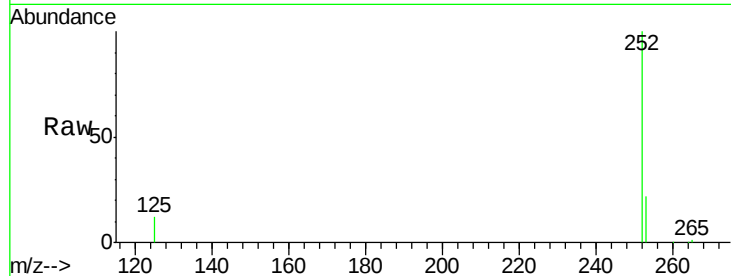
Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :



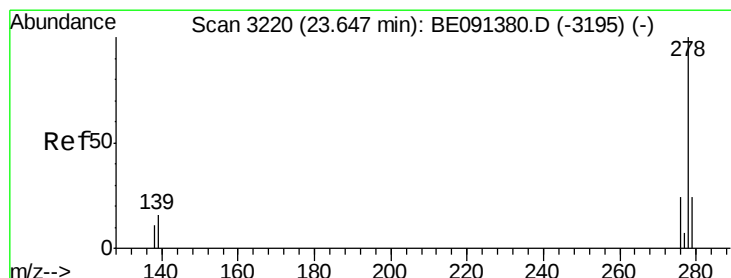
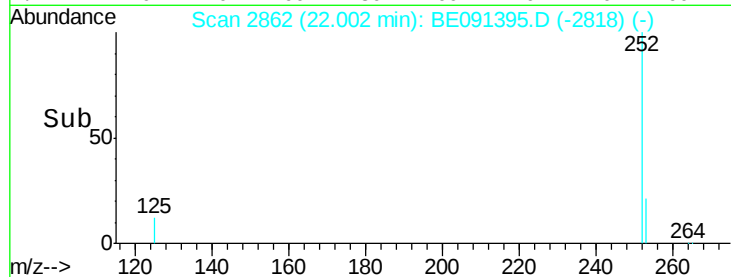
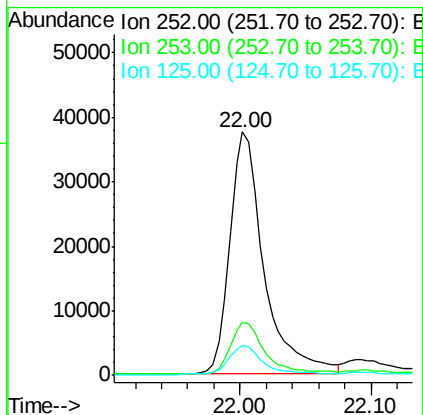
Tot Ion:252 Resp: 68026

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

125 12.3 9.4 14.0



#28

Dibenzo(a,h)anthracene

Concen: 0.89 ng

RT: 23.65 min Scan# 3221

Delta R.T. 0.01 min

Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

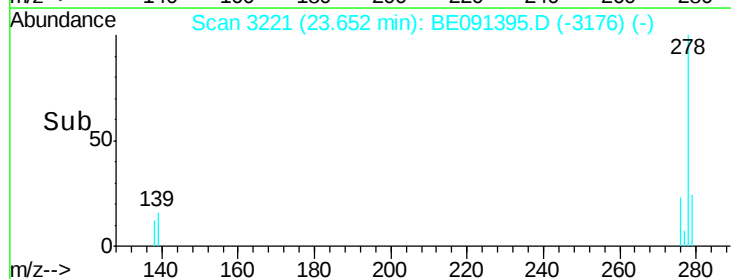
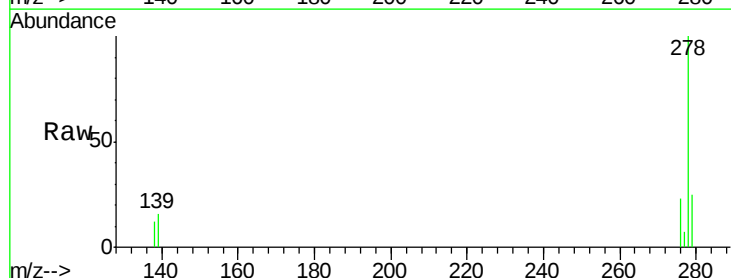
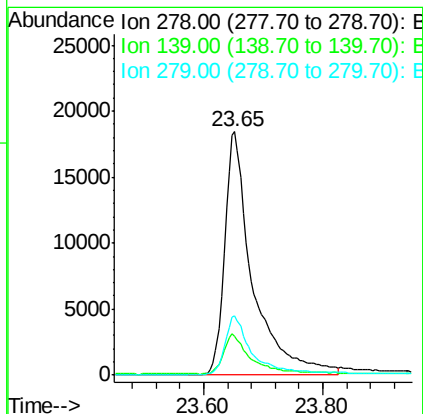
Tgt Ion:278 Resp: 59502

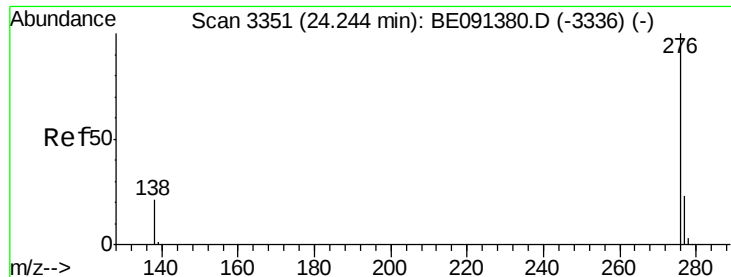
Ion Ratio Lower Upper

278 100

139 16.1 13.0 19.4

279 24.6 19.2 28.8





#29

Benzo(a,h,i)perylene

Concen: 0.93 ng

RT: 24.25 min Scan# 3352

Delta R.T. 0.01 min

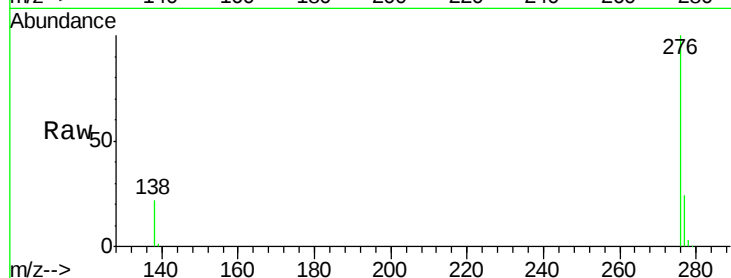
Lab File: BE091395.D

Acq: 5 Feb 2016 11:15

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 77837

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 21.8 17.0 25.6

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

