

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021916\
 Data File : BE091415.D
 Acq On : 19 Feb 2016 15:48
 Operator : UM/IZ
 Sample : PB88423BS
 Misc : Use for H1498 and H1519
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88423BS

Quant Time: Feb 19 22:38:22 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	6.86	152	36159	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	179157	5.00	ng	-0.02
8) Acenaphthene-d10	13.35	164	116493	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	286115	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	332754	5.00	ng	0.00
24) Perylene-d12	22.09	264	336644	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 2-Fluorophenol	4.90	112	63392	7.40	ng	-0.05
3) Phenol-d6	6.52	99	86237	7.11	ng	-0.05
5) Nitrobenzene-d5	8.13	82	52975	4.49	ng	-0.04
9) 2,4,6-Tribromophenol	14.88	330	41820	7.36	ng	-0.03
10) 2-Fluorobiphenyl	11.98	172	130927	4.32	ng	-0.03
20) Terphenyl-d14	18.61	244	216909	4.41	ng	0.00

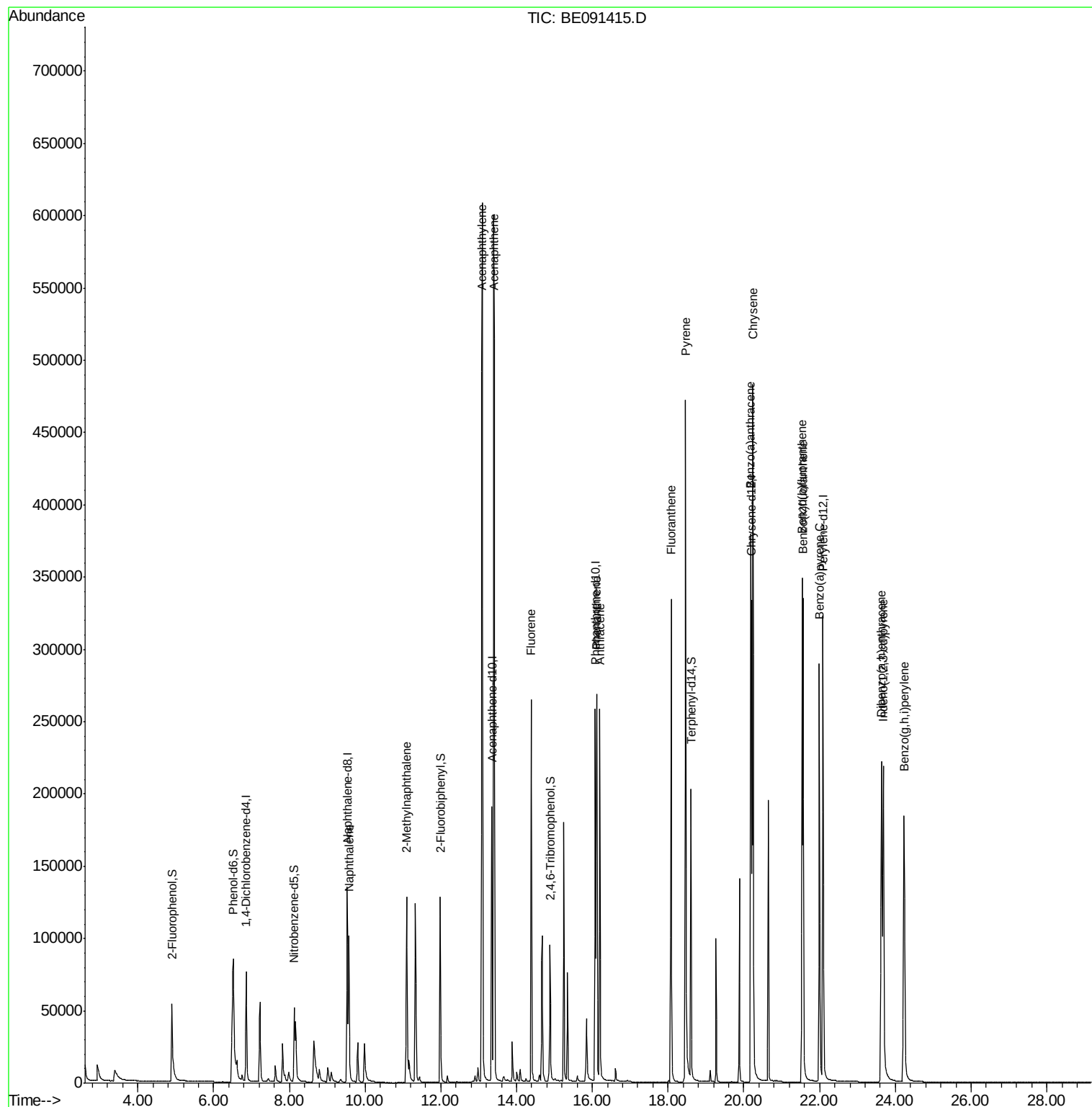
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	9.57	128	149638	3.70	ng	99
7) 2-Methylnaphthalene	11.10	142	103379	4.13	ng	100
11) Acenaphthylene	13.09	152	778180	3.87	ng	100
12) Acenaphthene	13.40	154	117910	3.69	ng	95
13) Fluorene	14.39	166	164642	3.99	ng	100
15) Phenanthrene	16.12	178	283987	3.78	ng	99
16) Anthracene	16.20	178	283378	4.50	ng	99
17) Fluoranthene	18.08	202	315568	4.03	ng	99
19) Pyrene	18.46	202	341067	4.73	ng	99
21) Benzo(a)anthracene	20.18	228	316297	4.29	ng	99
22) Chrysene	20.24	228	332171	4.01	ng	98
23) Indeno(1,2,3-cd)pyrene	23.68	276	317435	4.22	ng	98
25) Benzo(b)fluoranthene	21.54	252	342807	4.12	ng	99
26) Benzo(k)fluoranthene	21.57	252	342333	4.08	ng	99
27) Benzo(a)pyrene	21.99	252	317549	4.13	ng	100
28) Dibenzo(a,h)anthracene	23.63	278	299663	3.96	ng	99
29) Benzo(g,h,i)perylene	24.23	276	324206	3.91	ng	98

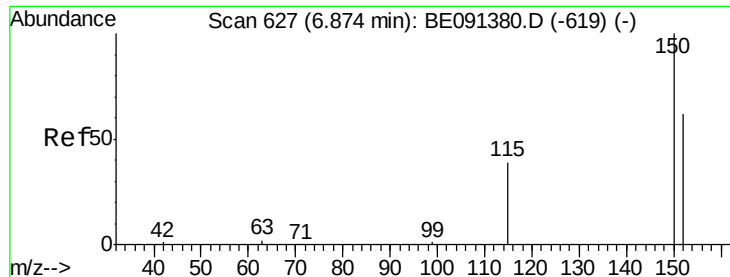
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.86 min Scan# 625

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

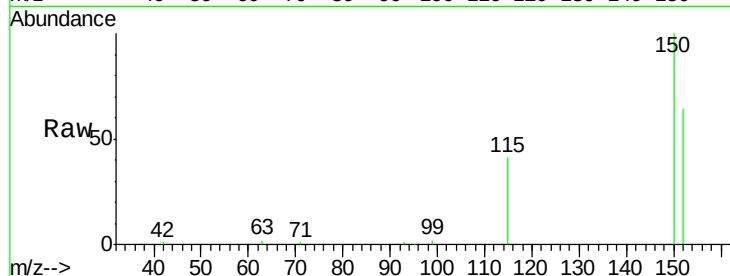
Tgt Ion:152 Resp: 36159

Ion Ratio Lower Upper

152 100

150 155.1 128.9 193.3

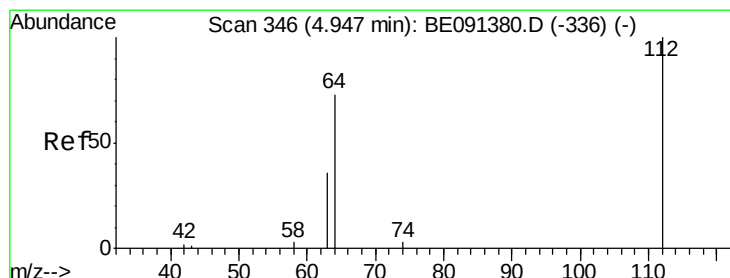
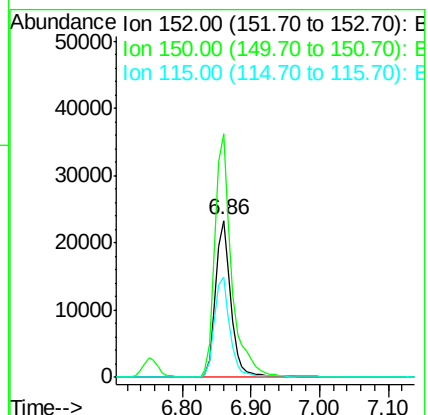
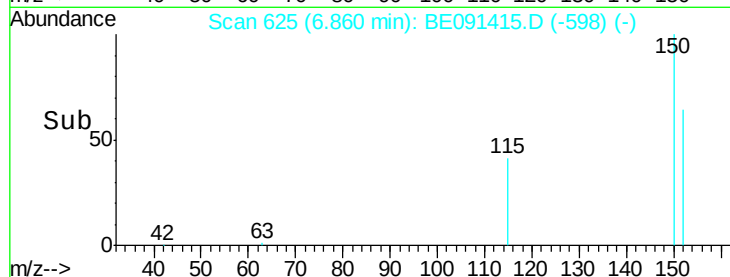
115 63.9 50.9 76.3



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: 7.40 ng

RT: 4.90 min Scan# 339

Delta R.T. -0.05 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

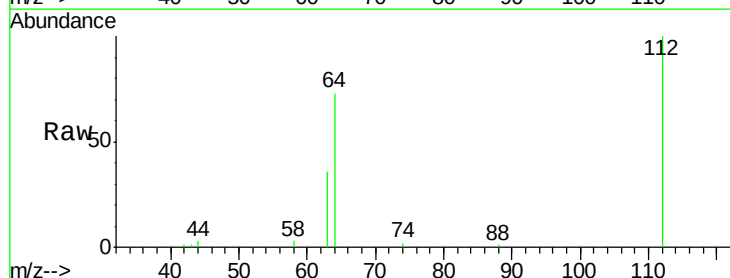
Tgt Ion:112 Resp: 63392

Ion Ratio Lower Upper

112 100

64 74.4 60.5 90.7

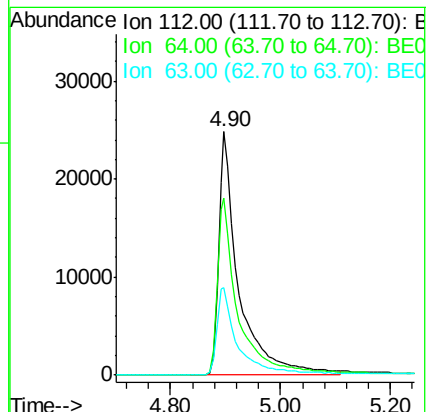
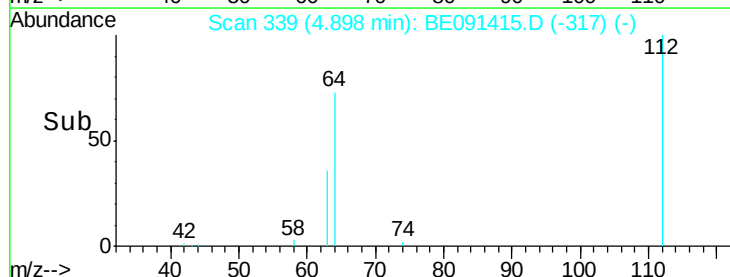
63 37.2 29.8 44.8

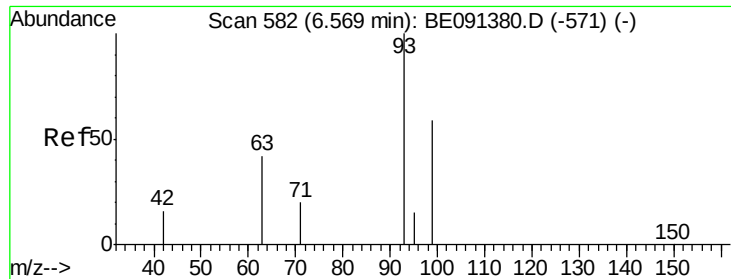


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 7.11 ng

RT: 6.52 min Scan# 575

Delta R.T. -0.05 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

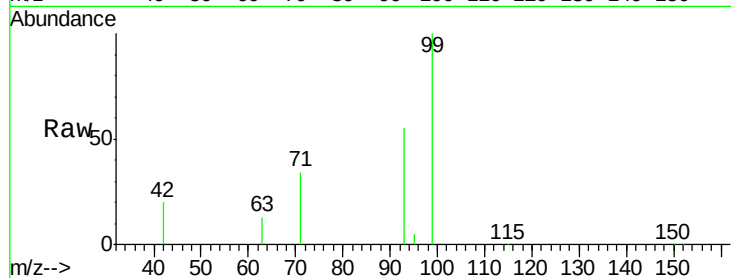
Tgt Ion: 99 Resp: 86237

Ion Ratio Lower Upper

99 100

42 21.5 13.3 19.9#

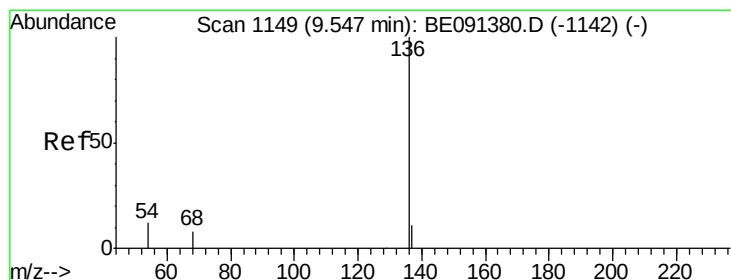
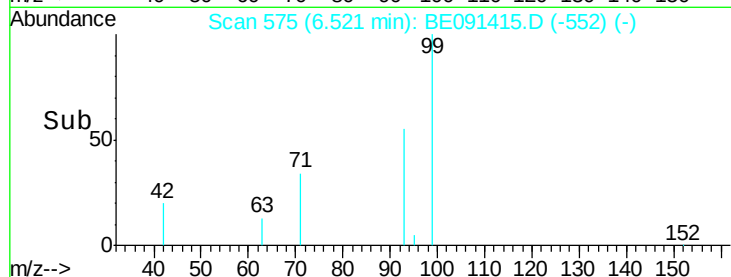
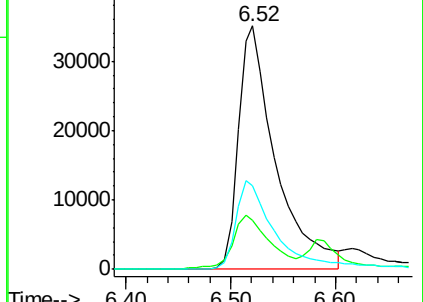
71 39.7 25.6 38.4#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Tgt Ion: 136 Resp: 179157

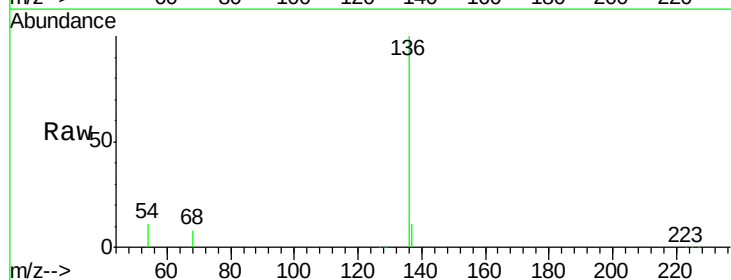
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 11.1 9.3 13.9

68 7.9 6.7 10.1

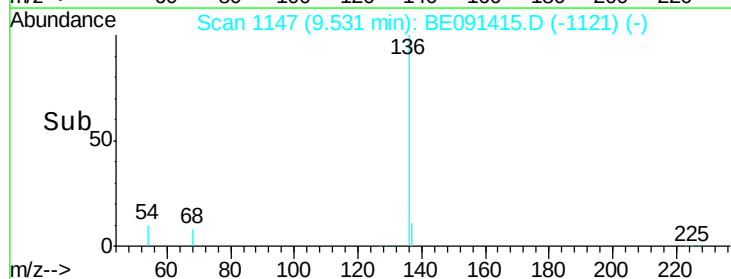
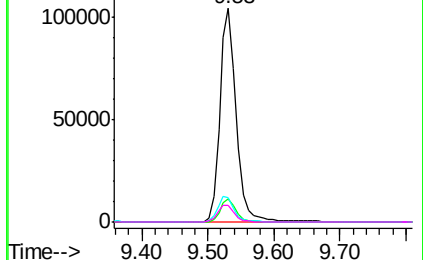


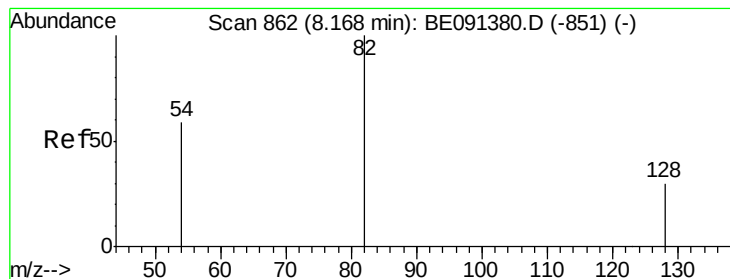
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 4.49 ng

RT: 8.13 min Scan# 853

Delta R.T. -0.04 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

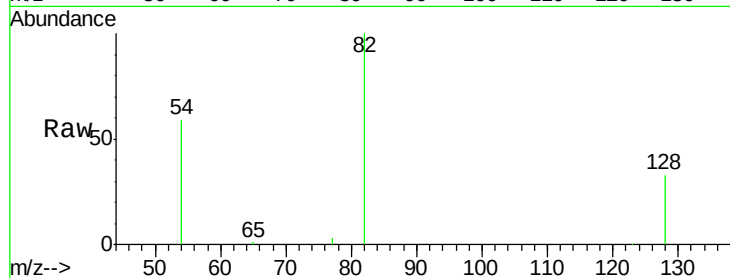
Tgt Ion: 82 Resp: 52975

Ion Ratio Lower Upper

82 100

128 33.2 25.0 37.4

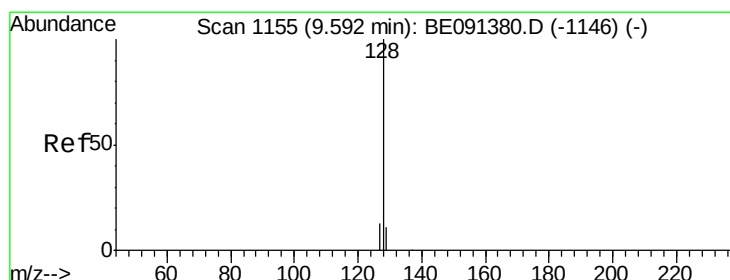
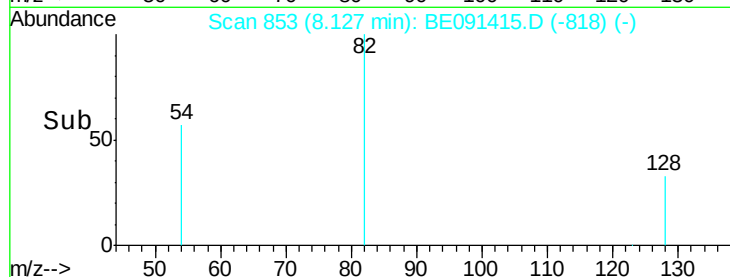
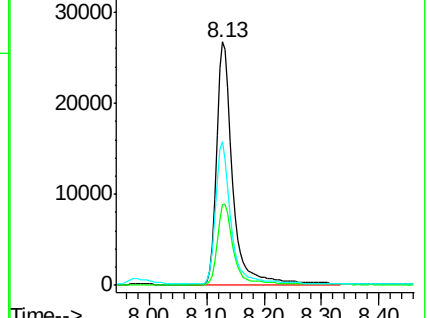
54 59.0 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 3.70 ng

RT: 9.57 min Scan# 1152

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

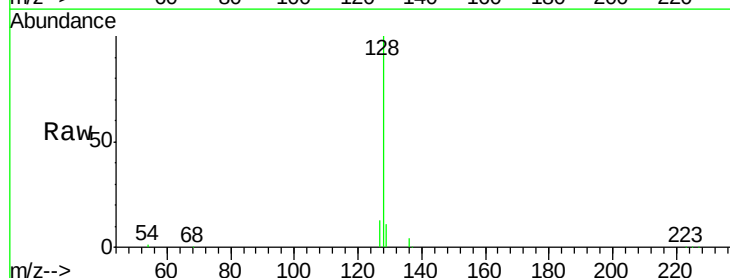
Tgt Ion: 128 Resp: 149638

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

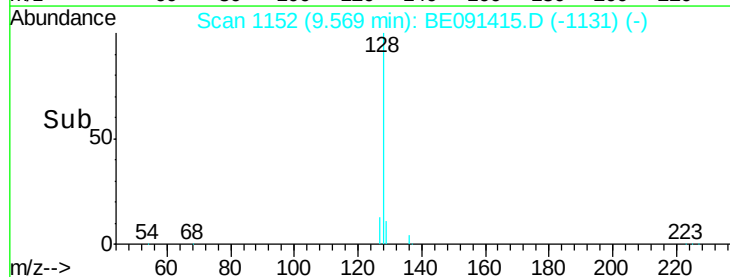
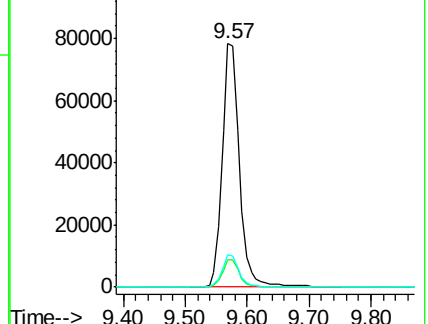
127 13.3 10.5 15.7

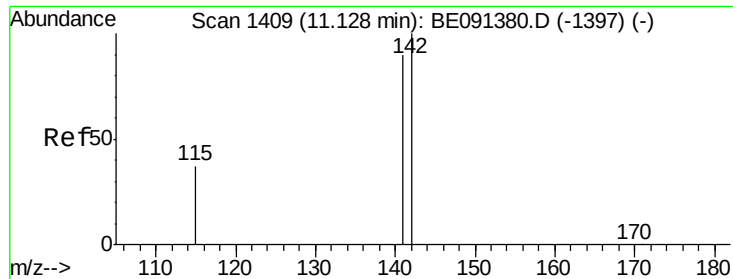


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 4.13 ng

RT: 11.10 min Scan# 1402

Delta R.T. -0.03 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

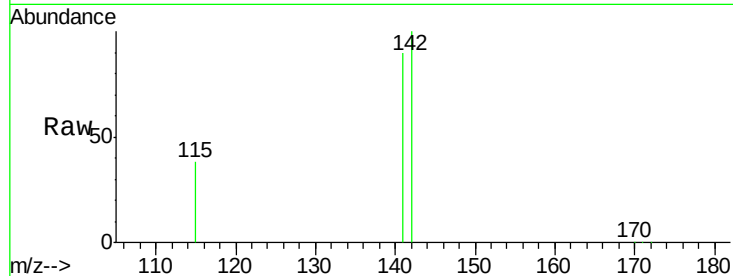
Tgt Ion:142 Resp: 103379

Ion Ratio Lower Upper

142 100

141 89.9 72.3 108.5

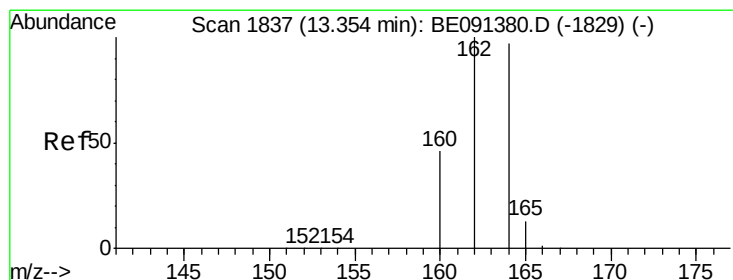
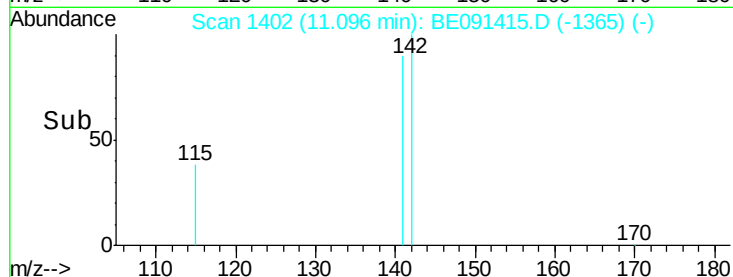
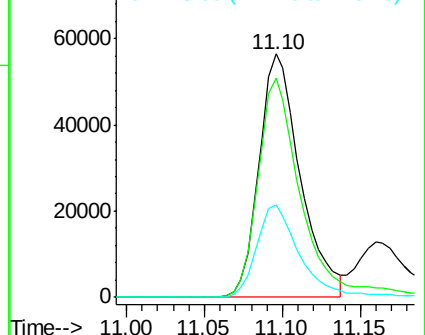
115 38.3 30.5 45.7



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# 1836

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

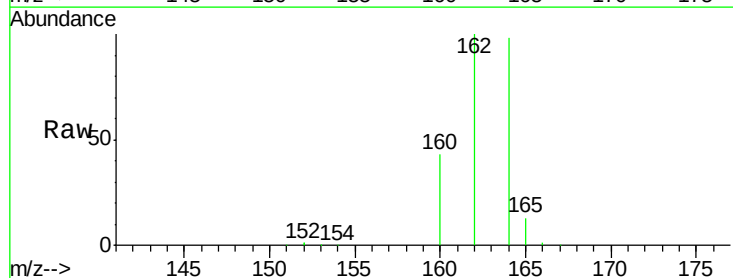
Tgt Ion:164 Resp: 116493

Ion Ratio Lower Upper

164 100

162 102.3 82.2 123.2

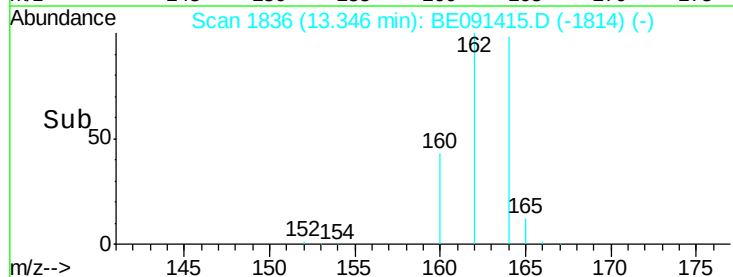
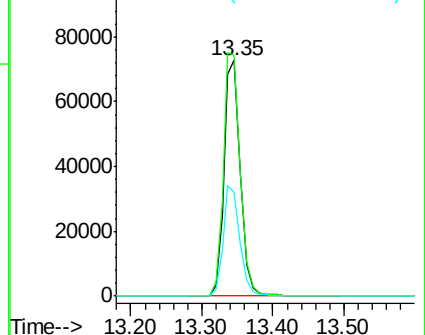
160 44.3 37.8 56.8

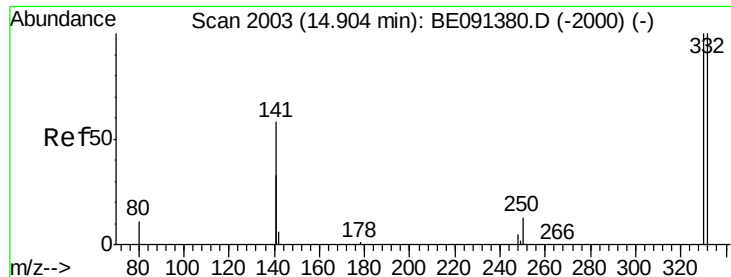


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 7.36 ng

RT: 14.88 min Scan# 2001

Delta R.T. -0.03 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

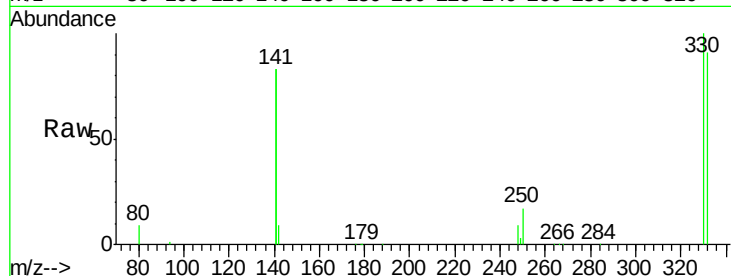
Tgt Ion:330 Resp: 41820

Ion Ratio Lower Upper

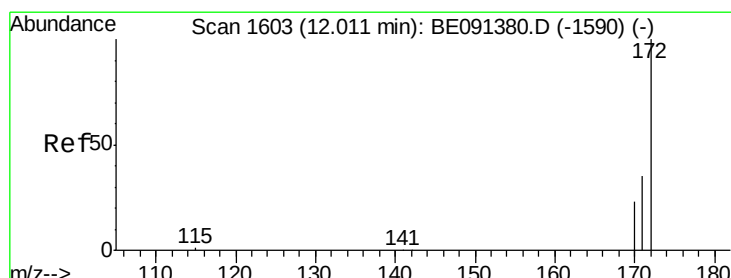
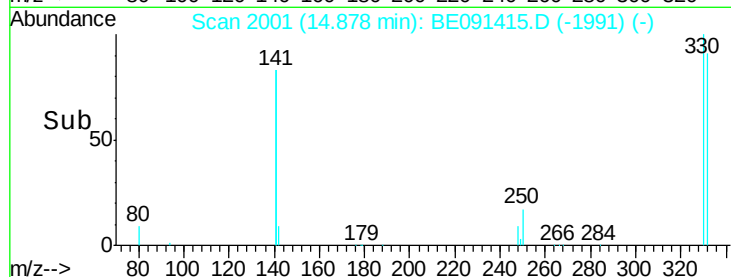
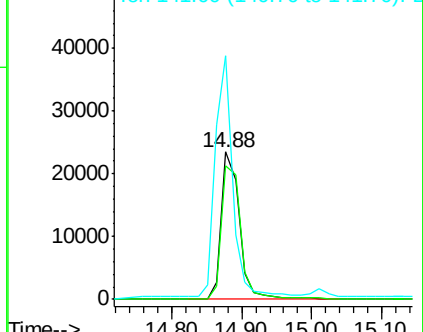
330 100

332 97.2 78.8 118.2

141 157.8 105.1 157.7#



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: 4.32 ng

RT: 11.98 min Scan# 1597

Delta R.T. -0.03 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

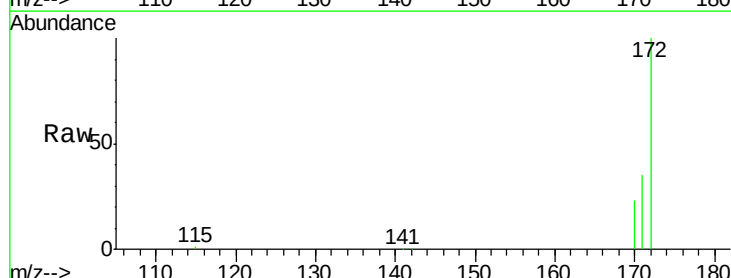
Tgt Ion:172 Resp: 130927

Ion Ratio Lower Upper

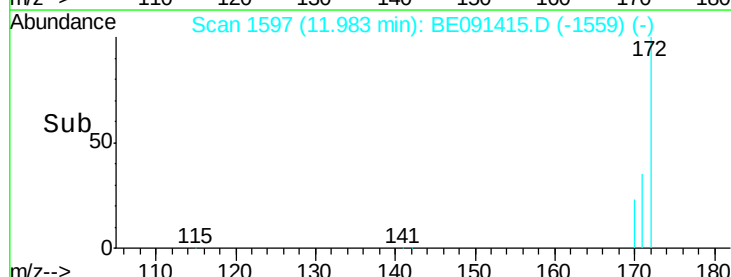
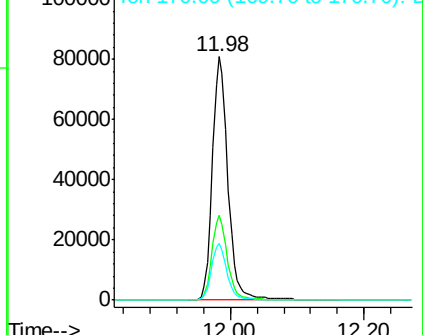
172 100

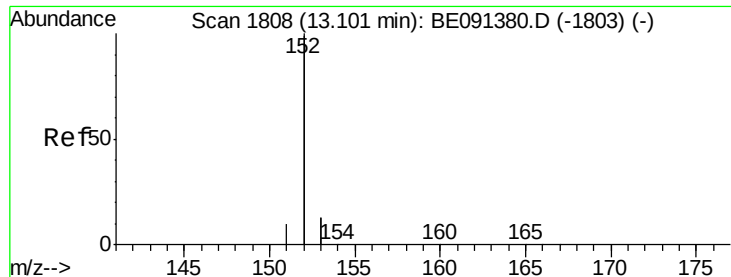
171 34.6 27.8 41.8

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: 3.87 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

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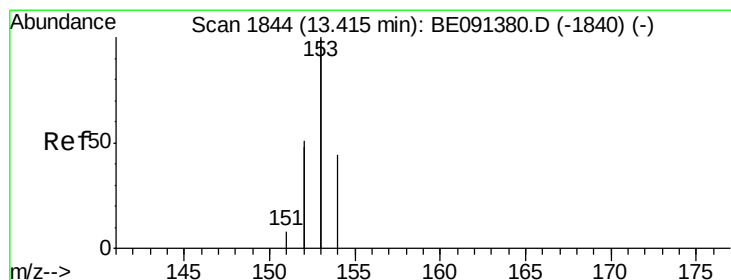
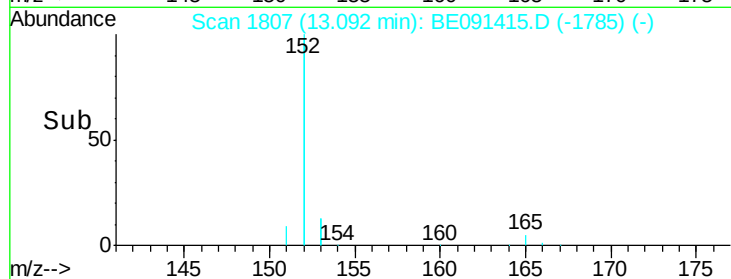
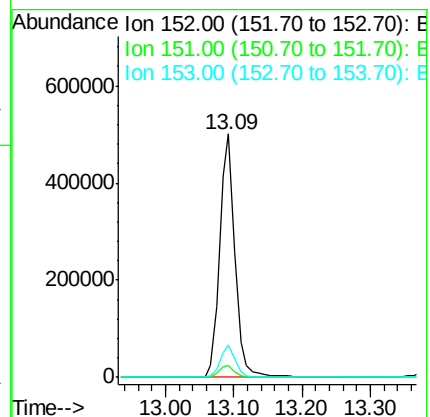
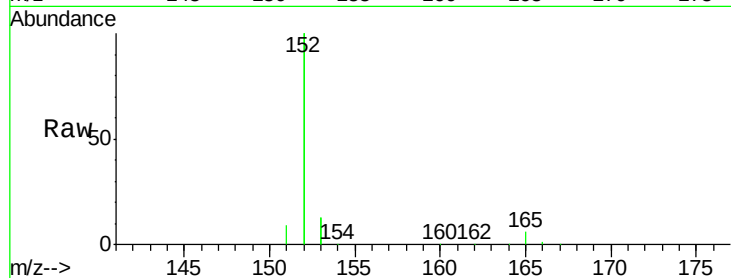
Tgt Ion:152 Resp: 778180

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

153 13.0 10.2 15.4



#12

Acenaphthene

Concen: 3.69 ng

RT: 13.40 min Scan# 1842

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

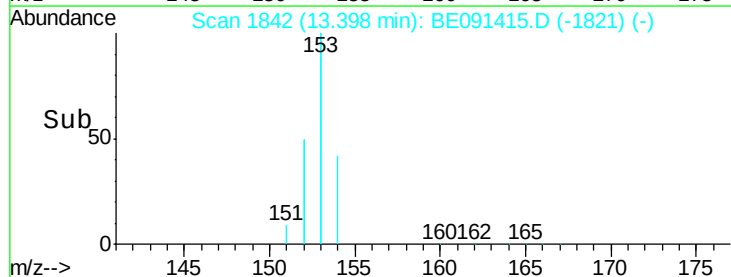
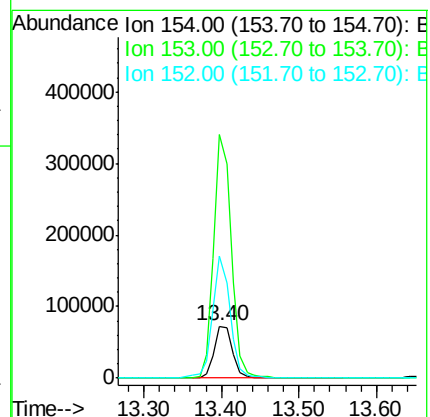
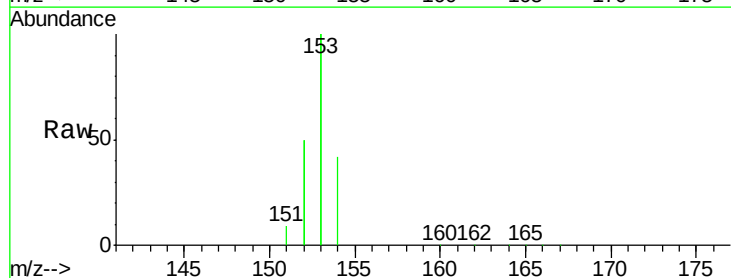
Tgt Ion:154 Resp: 117910

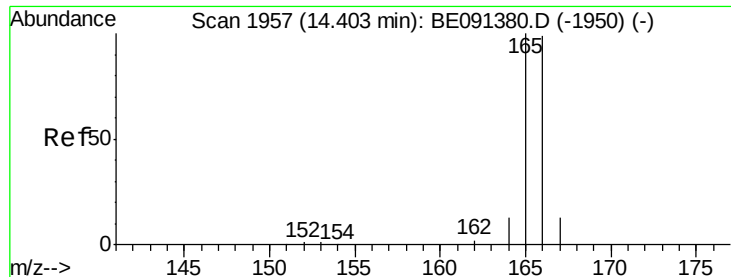
Ion Ratio Lower Upper

154 100

153 455.0 369.8 554.8

152 225.5 194.4 291.6





#13

Fluorene

Concen: 3.99 ng

RT: 14.39 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

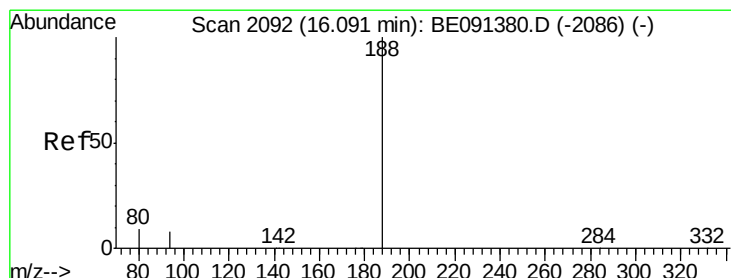
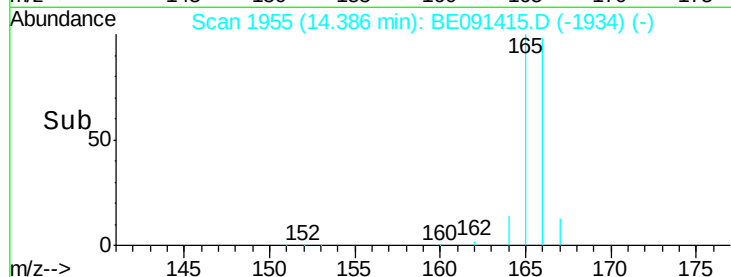
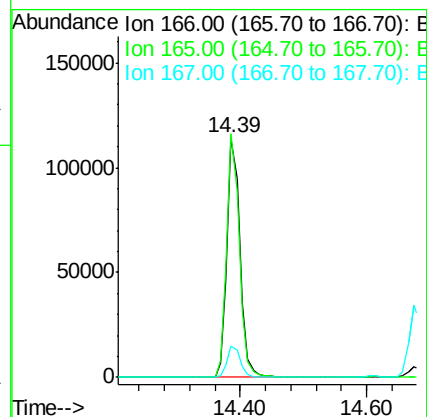
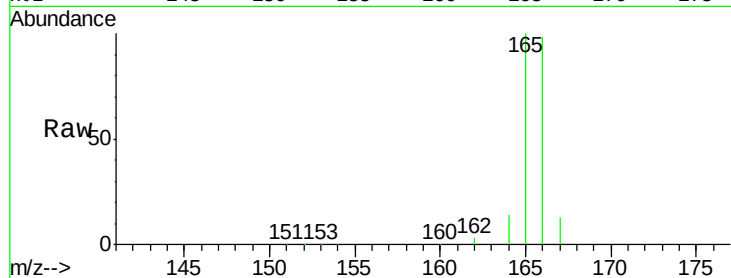
Tgt Ion:166 Resp: 164642

Ion Ratio Lower Upper

166 100

165 99.0 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

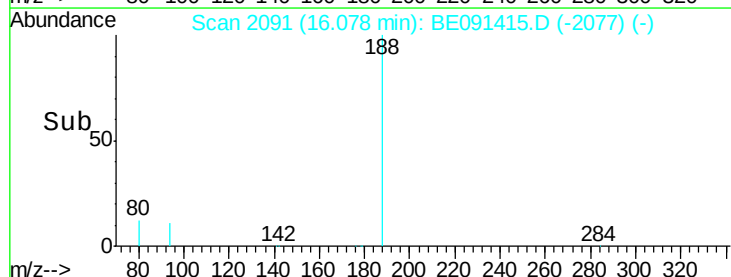
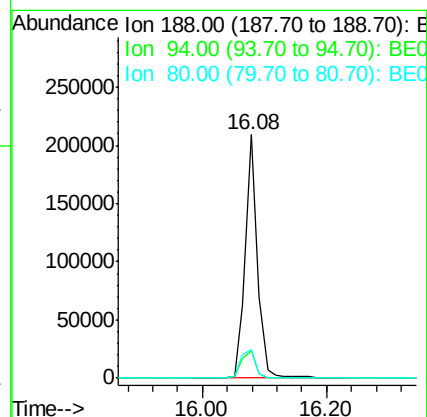
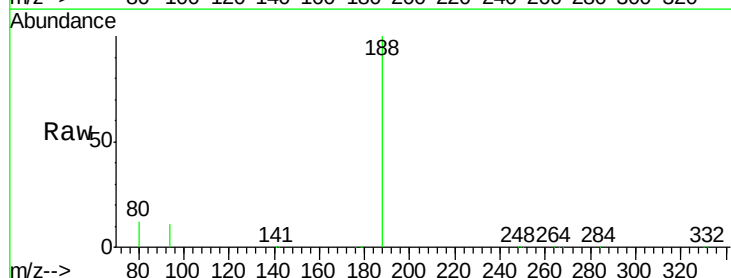
Tgt Ion:188 Resp: 286115

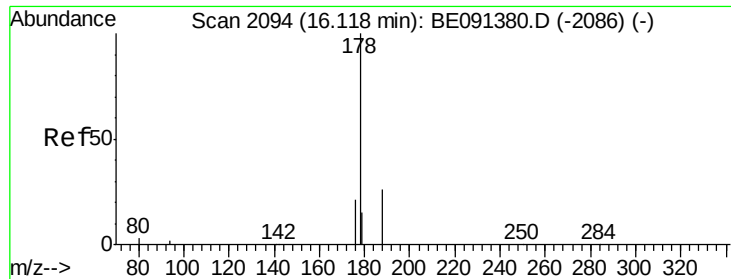
Ion Ratio Lower Upper

188 100

94 11.0 6.6 10.0#

80 11.6 7.0 10.6#





#15

Phenanthrene

Concen: 3.78 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

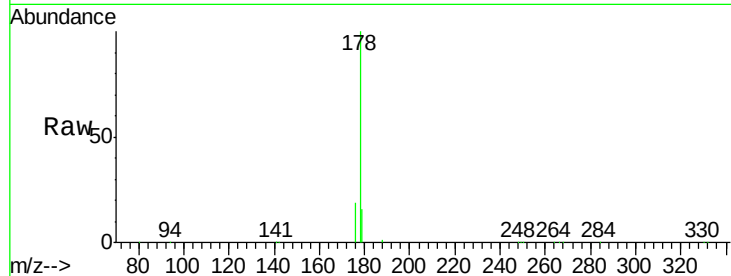
Tgt Ion:178 Resp: 283987

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

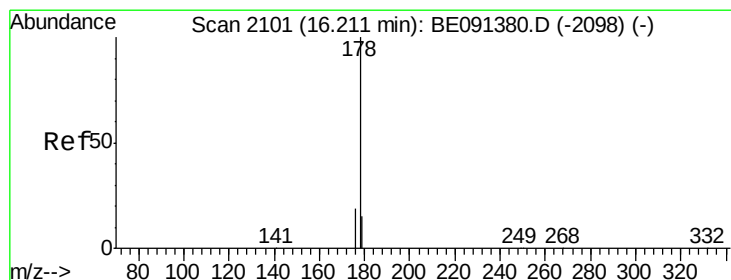
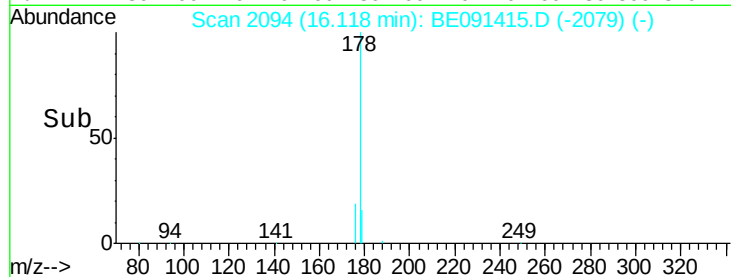
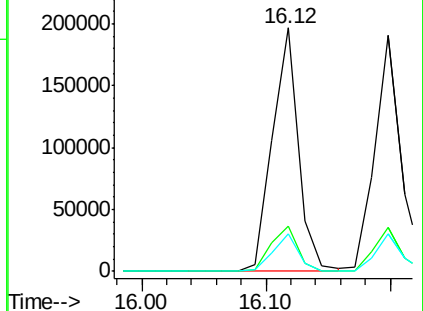
179 15.4 12.7 19.1



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



#16

Anthracene

Concen: 4.50 ng

RT: 16.20 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

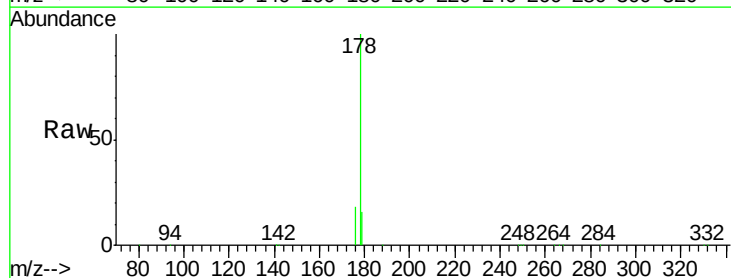
Tgt Ion:178 Resp: 283378

Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

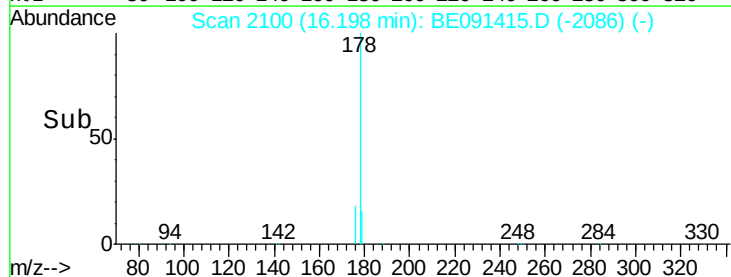
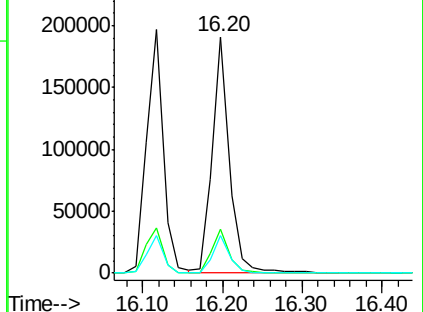
179 15.5 12.1 18.1

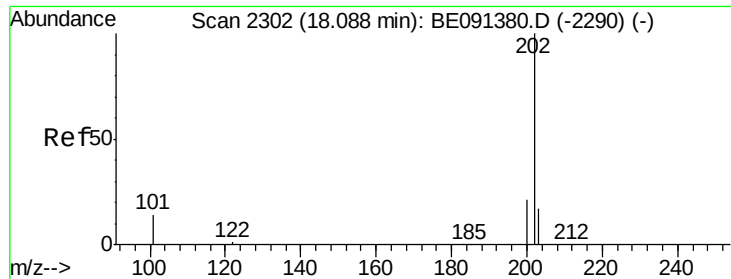


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

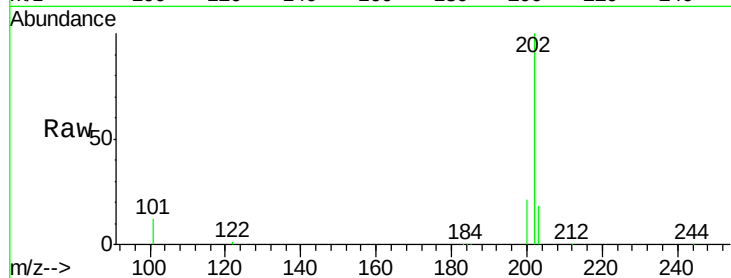




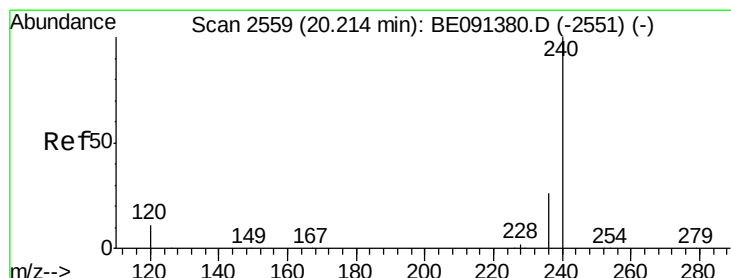
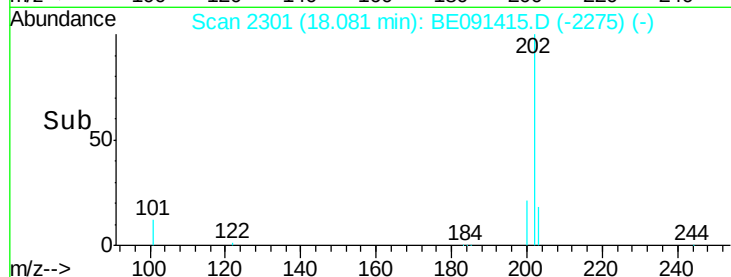
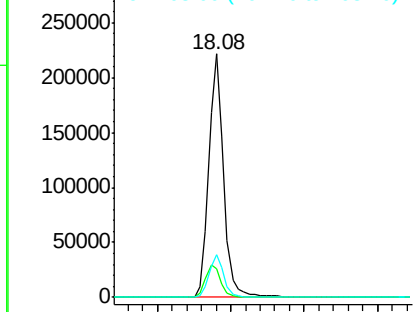
#17
 Fluoranthene
 Concen: 4.03 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091415.D
 Acq: 19 Feb 2016 15:48

Instrument :
 BNA_E
 ClientSampleId :
 PB88423BS

Tgt Ion: 202 Resp: 315568
 Ion Ratio Lower Upper
 202 100
 101 13.7 10.5 15.7
 203 17.4 13.9 20.9

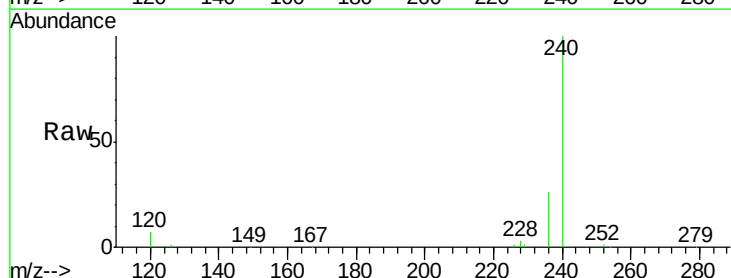


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

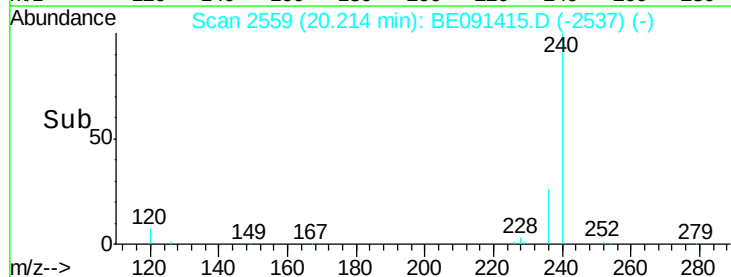
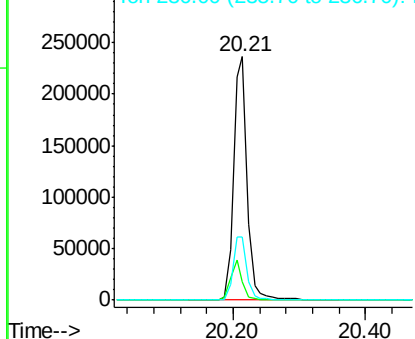


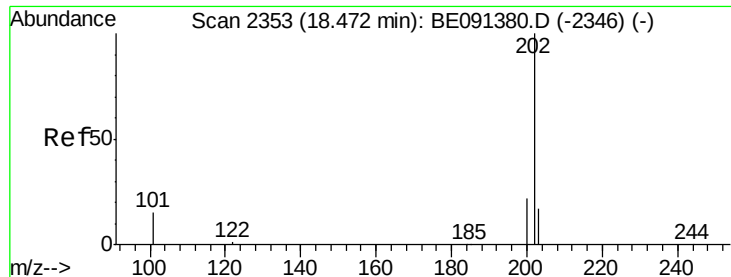
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. -0.00 min
 Lab File: BE091415.D
 Acq: 19 Feb 2016 15:48

Tgt Ion: 240 Resp: 332754
 Ion Ratio Lower Upper
 240 100
 120 7.4 8.9 13.3#
 236 25.7 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

Pyrene

Concen: 4.73 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

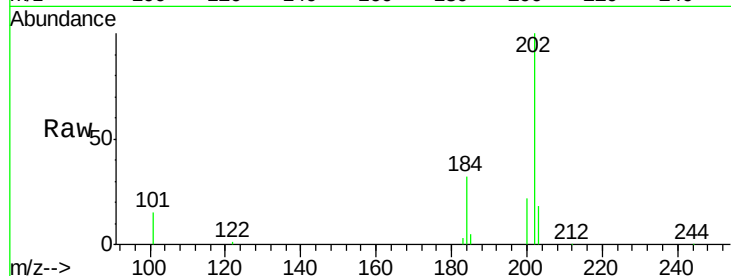
Tgt Ion: 202 Resp: 341067

Ion Ratio Lower Upper

202 100

200 21.4 16.8 25.2

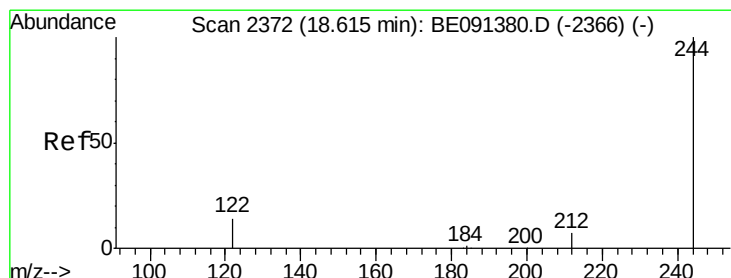
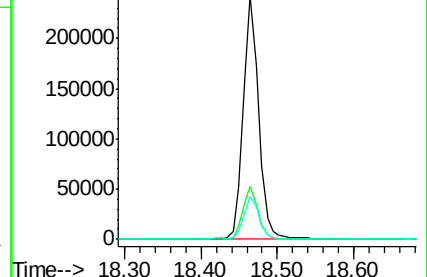
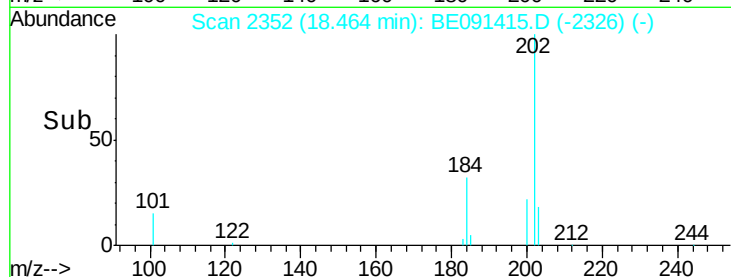
203 18.0 14.0 21.0



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



#20

Terphenyl-d14

Concen: 4.41 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

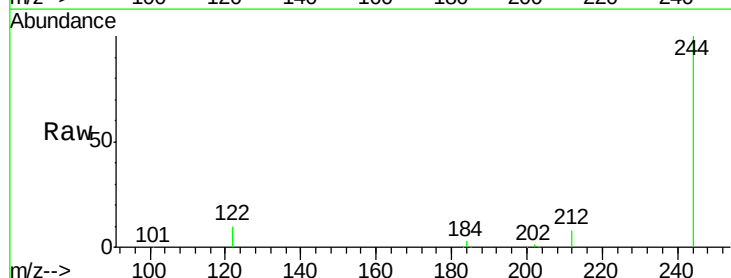
Tgt Ion: 244 Resp: 216909

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

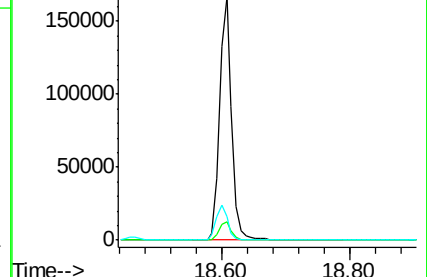
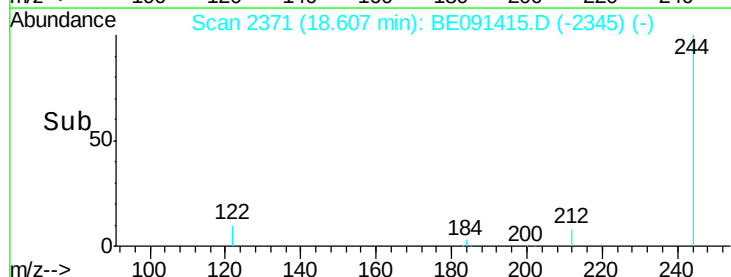
122 9.6 11.0 16.6#

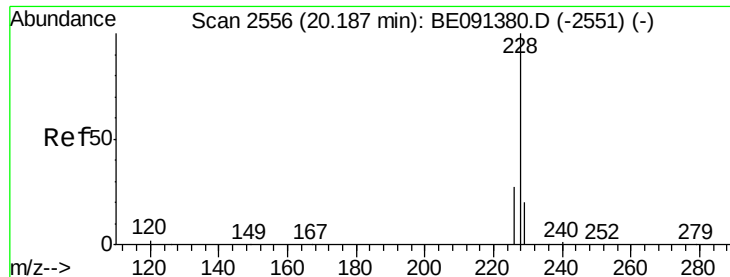


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

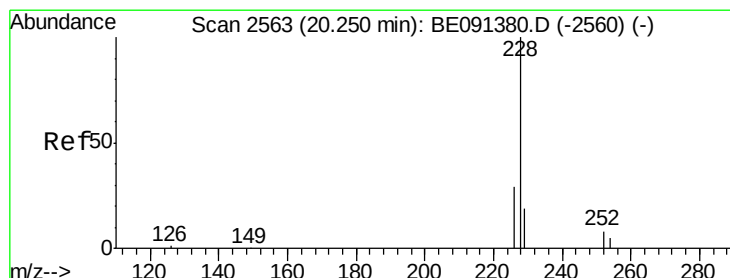
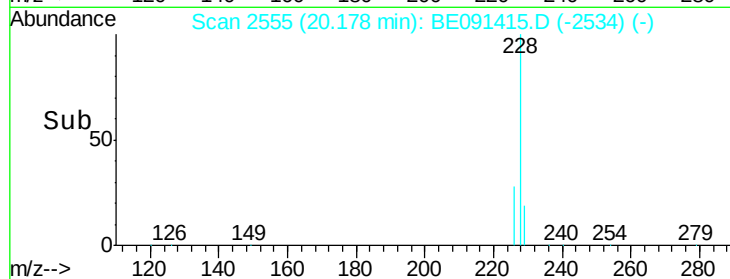
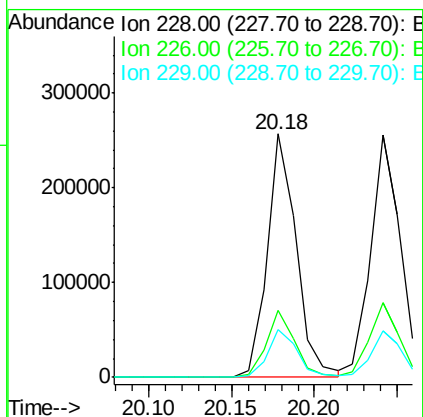
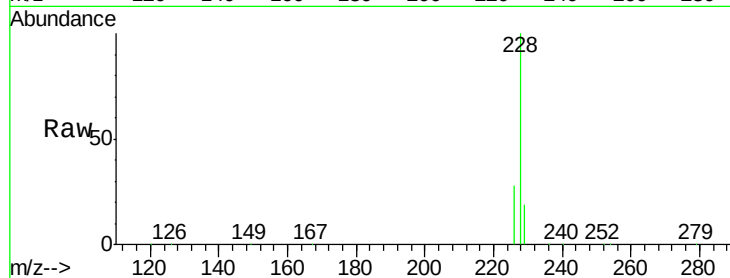




#21
Benzo(a)anthracene
Concen: 4.29 ng
RT: 20.18 min Scan# 2555
Delta R.T. -0.01 min
Lab File: BE091415.D
Acq: 19 Feb 2016 15:48

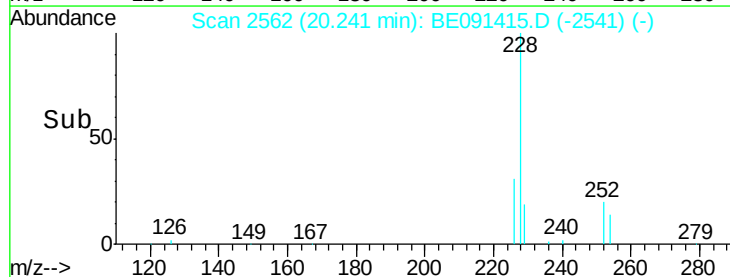
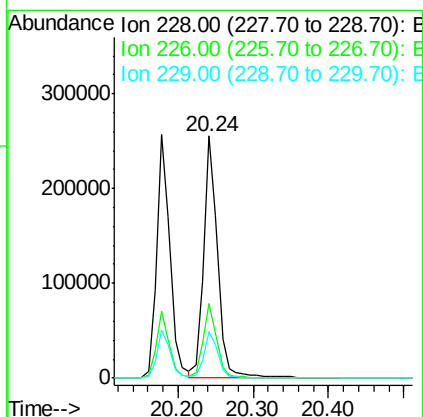
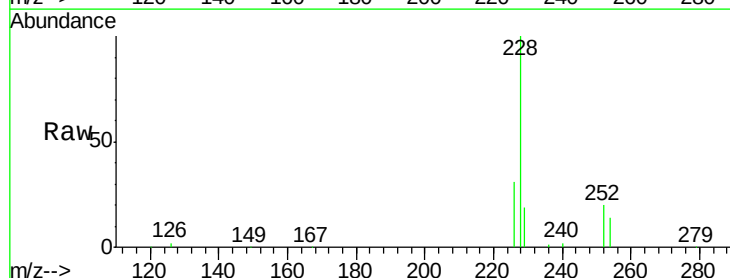
Instrument :
BNA_E
ClientSampleId :
PB88423BS

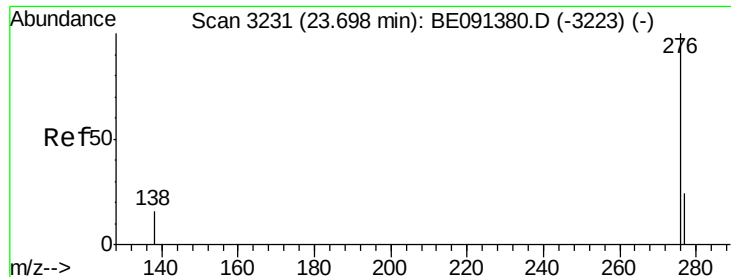
Tgt Ion:228 Resp: 316297
Ion Ratio Lower Upper
228 100
226 27.5 21.7 32.5
229 19.4 16.1 24.1



#22
Chrysene
Concen: 4.01 ng
RT: 20.24 min Scan# 2562
Delta R.T. -0.01 min
Lab File: BE091415.D
Acq: 19 Feb 2016 15:48

Tgt Ion:228 Resp: 332171
Ion Ratio Lower Upper
228 100
226 31.0 23.4 35.0
229 19.3 15.7 23.5





#23

Indeno(1,2,3-cd)pyrene

Concen: 4.22 ng

RT: 23.68 min Scan# 3227

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

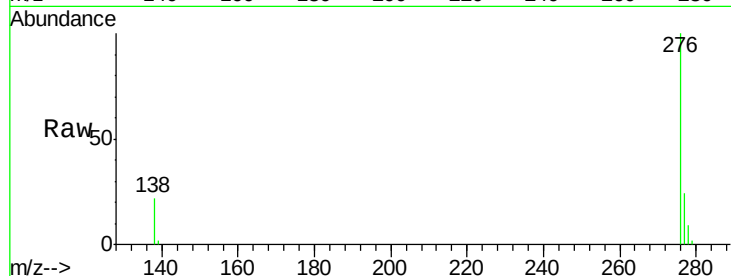
Tgt Ion: 276 Resp: 317435

Ion Ratio Lower Upper

276 100

138 22.1 16.6 25.0

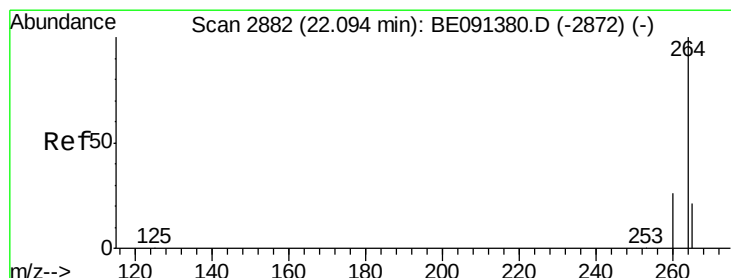
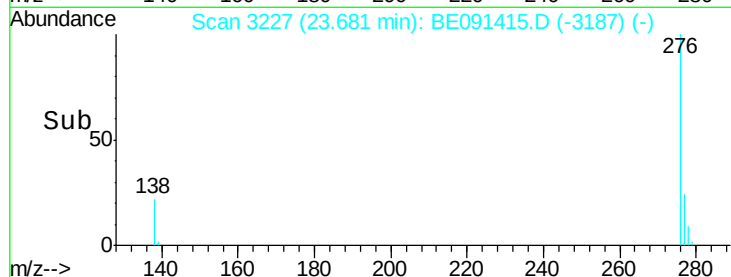
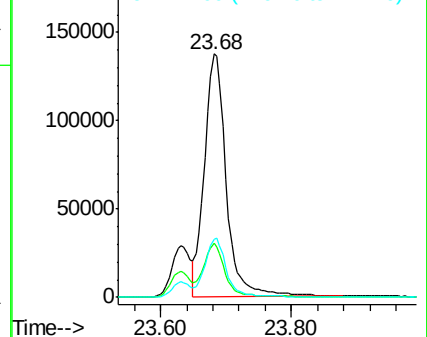
277 24.1 19.0 28.6



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.09 min Scan# 2881

Delta R.T. -0.00 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

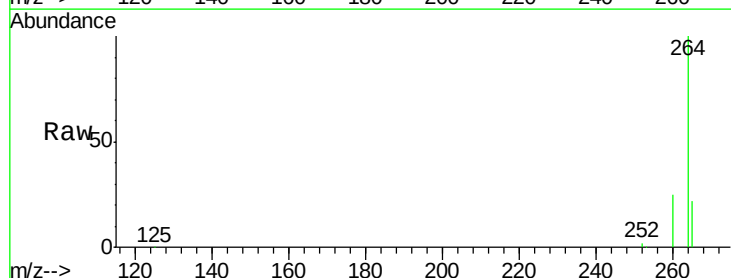
Tgt Ion: 264 Resp: 336644

Ion Ratio Lower Upper

264 100

260 25.1 20.7 31.1

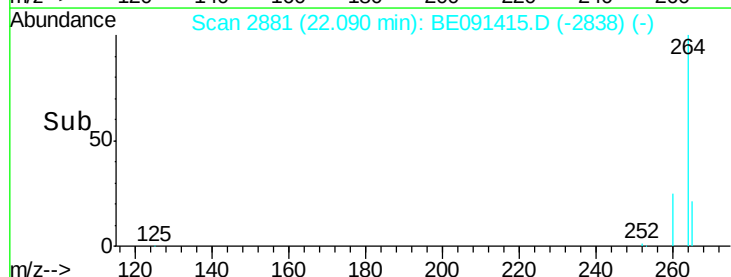
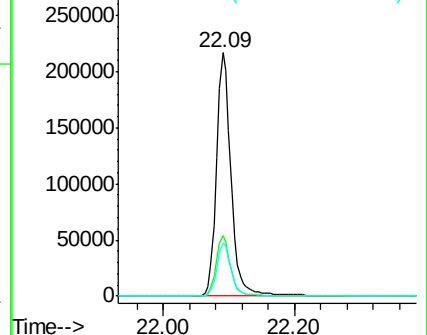
265 21.6 17.2 25.8

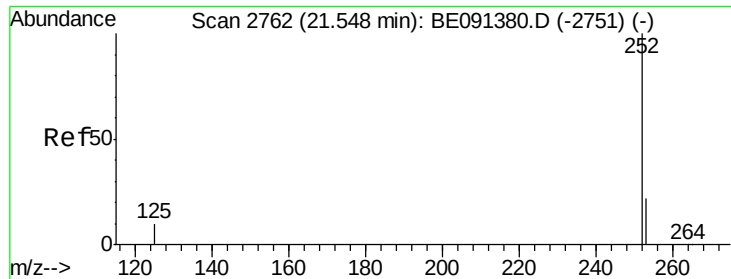


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

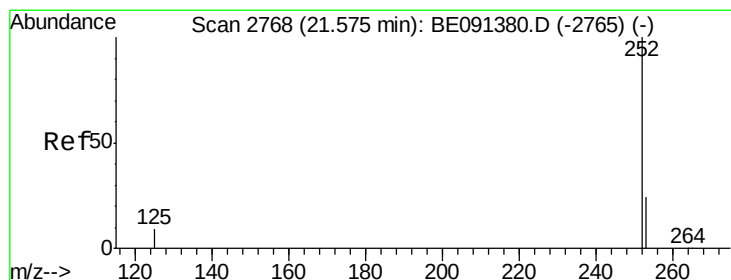
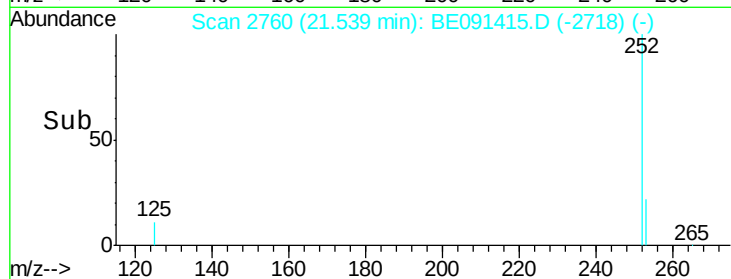
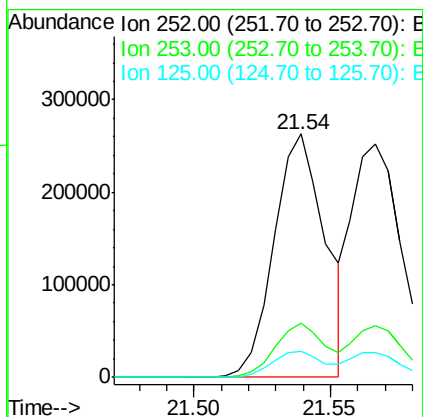
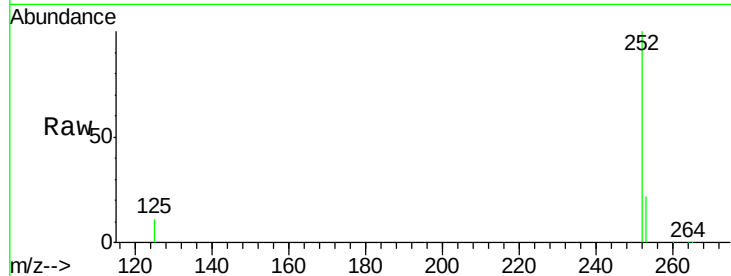




#25
Benzo(b)fluoranthene
Concen: 4.12 ng
RT: 21.54 min Scan# 2760
Delta R.T. -0.01 min
Lab File: BE091415.D
Acq: 19 Feb 2016 15:48

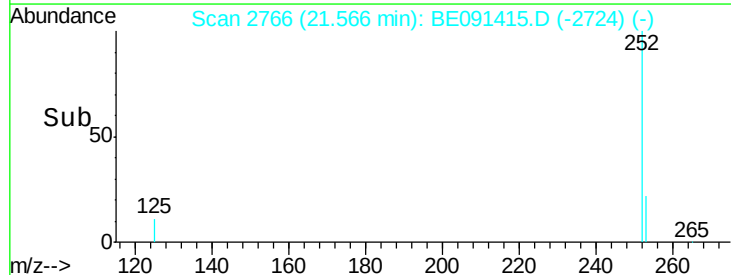
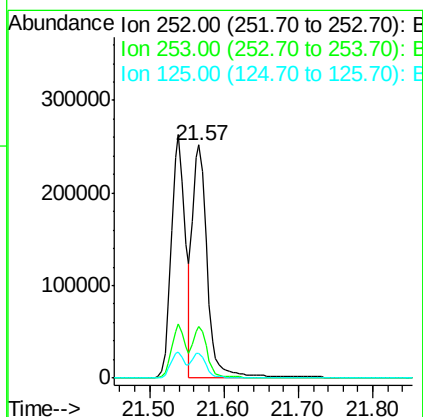
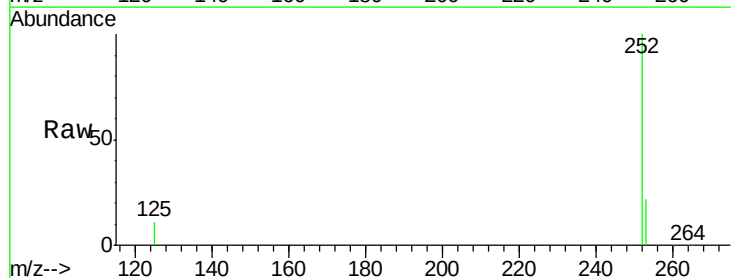
Instrument :
BNA_E
ClientSampleId :
PB88423BS

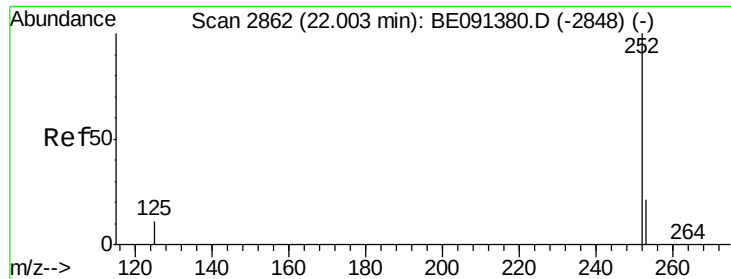
Tgt Ion:252 Resp: 342807
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.2
125 10.7 8.3 12.5



#26
Benzo(k)fluoranthene
Concen: 4.08 ng
RT: 21.57 min Scan# 2766
Delta R.T. -0.01 min
Lab File: BE091415.D
Acq: 19 Feb 2016 15:48

Tgt Ion:252 Resp: 342333
Ion Ratio Lower Upper
252 100
253 22.3 18.1 27.1
125 10.8 8.2 12.4





#27

Benzo(a)pyrene

Concen: 4.13 ng

RT: 21.99 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS

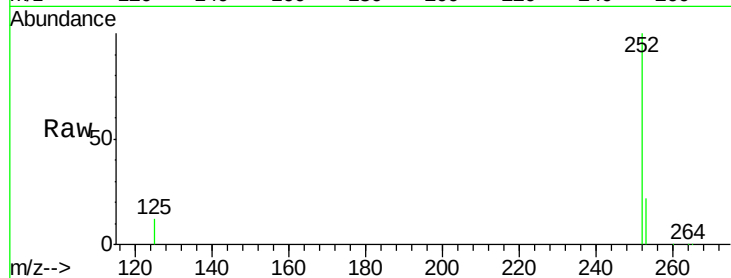
Tgt Ion: 252 Resp: 317549

Ion Ratio Lower Upper

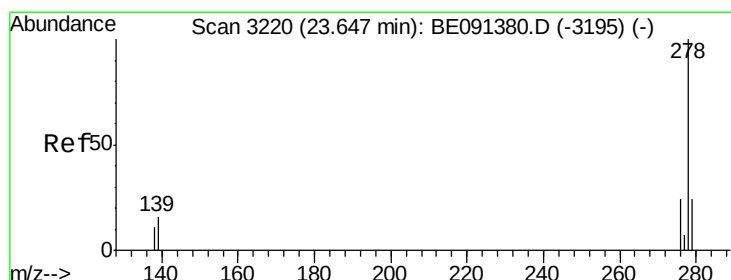
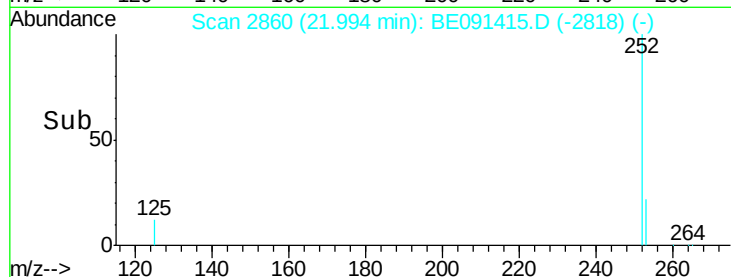
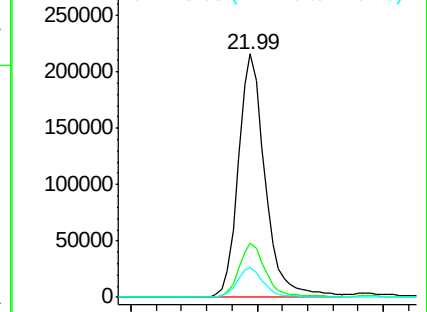
252 100

253 22.0 17.5 26.3

125 12.0 9.4 14.0



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



#28

Dibenzo(a,h)anthracene

Concen: 3.96 ng

RT: 23.63 min Scan# 3216

Delta R.T. -0.02 min

Lab File: BE091415.D

Acq: 19 Feb 2016 15:48

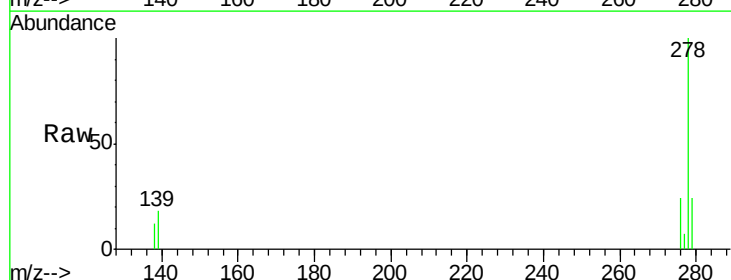
Tgt Ion: 278 Resp: 299663

Ion Ratio Lower Upper

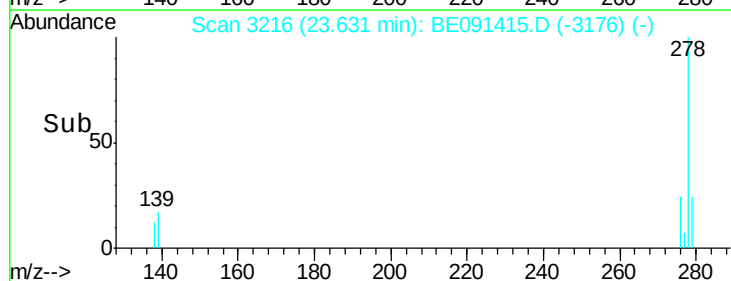
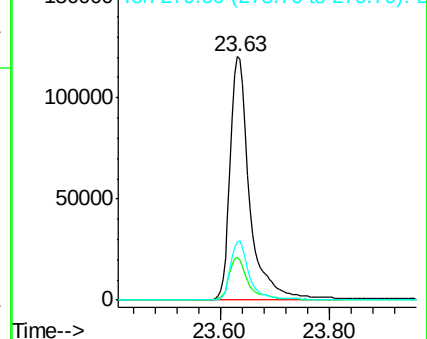
278 100

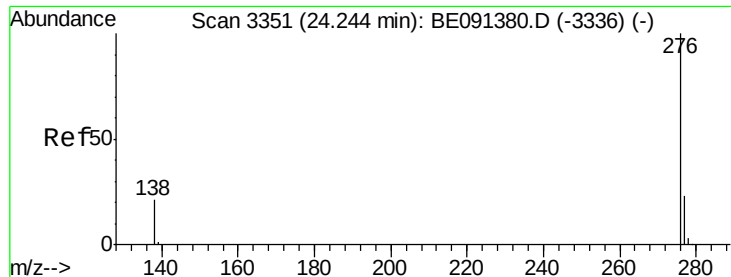
139 17.6 13.0 19.4

279 23.9 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





#29

Benzo(g,h,i)perylene

Concen: 3.91 ng

RT: 24.23 min Scan# 3348

Delta R.T. -0.01 min

Lab File: BE091415.D

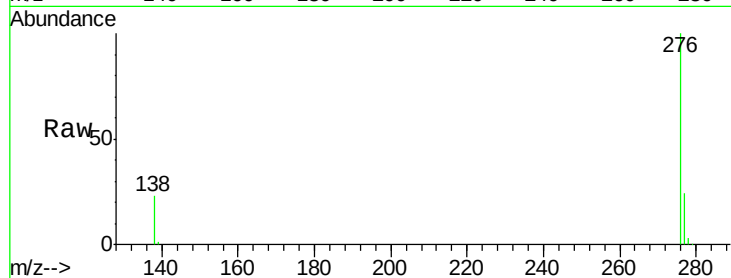
Acq: 19 Feb 2016 15:48

Instrument :

BNA_E

ClientSampleId :

PB88423BS



Tgt Ion: 276 Resp: 324206

Ion Ratio Lower Upper

276 100

277 23.7 18.9 28.3

138 23.4 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

