

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089563.D
 Acq On : 7 Feb 2015 17:52
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Quant Time: Feb 09 00:19:30 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	43202	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	157908	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	62688	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	87700	5.00	ng	0.00
16) Chrysene-d12	23.72	240	103073	5.00	ng	0.00
22) Perylene-d12	25.41	264	129613	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	102223	9.75	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	143859	8.60	ng	0.00
18) Terphenyl-d14	22.36	244	118794	8.74	ng	0.00

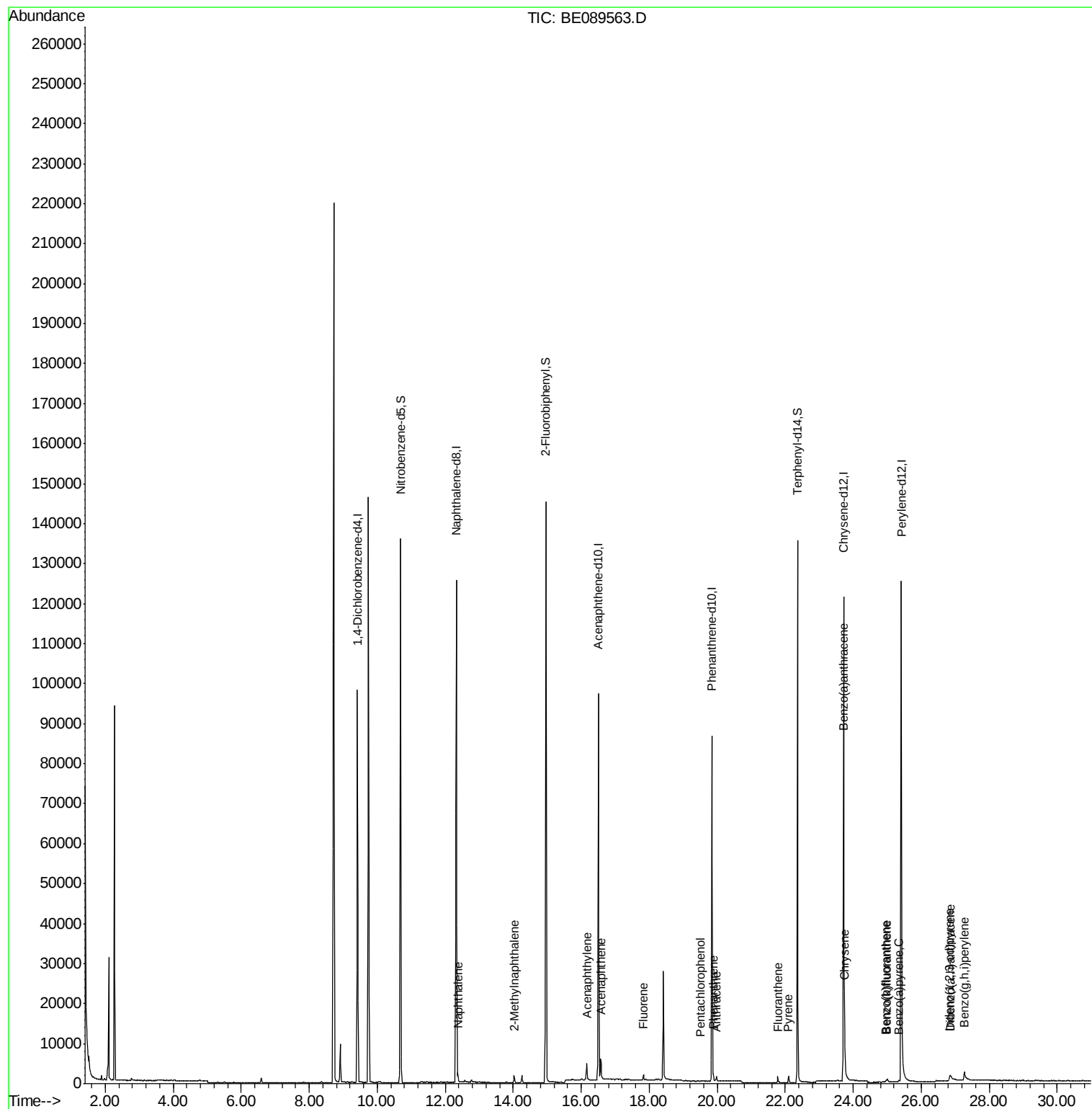
Target Compounds						Qvalue
4) Naphthalene	12.37	128	2735	0.08	ng	# 93
5) 2-Methylnaphthalene	14.03	142	1310	0.06	ng	94
8) Acenaphthylene	16.16	152	5906	0.06	ng	99
9) Acenaphthene	16.58	154	1061	0.06	ng	# 83
10) Fluorene	17.83	166	1043	0.06	ng	98
12) Pentachlorophenol	19.52	266	11	0.55	ng	# 78
13) Phenanthrene	19.89	178	1592	0.07	ng	100
14) Anthracene	19.98	178	1108	0.06	ng	99
15) Fluoranthene	21.79	202	1138	0.06	ng	95
17) Pyrene	22.10	202	1237	0.06	ng	99
19) Benzo(a)anthracene	23.70	228	5563	0.06	ng	# 91
20) Chrysene	23.75	228	7230	0.08	ng	92
21) Indeno(1,2,3-cd)pyrene	26.84	276	4612	0.04	ng	# 95
23) Benzo(b)fluoranthene	24.98	252	661	0.03	ng	# 78
24) Benzo(k)fluoranthene	25.00	252	1116	0.04	ng	# 81
25) Benzo(a)pyrene	25.34	252	811	0.03	ng	# 77
26) Dibenzo(a,h)anthracene	26.87	278	730	0.02	ng	# 62
27) Benzo(g,h,i)perylene	27.27	276	4699	0.04	ng	# 84

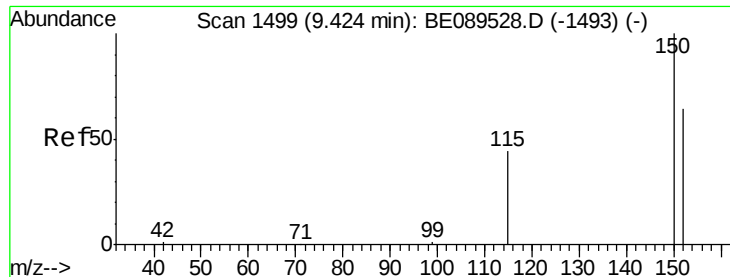
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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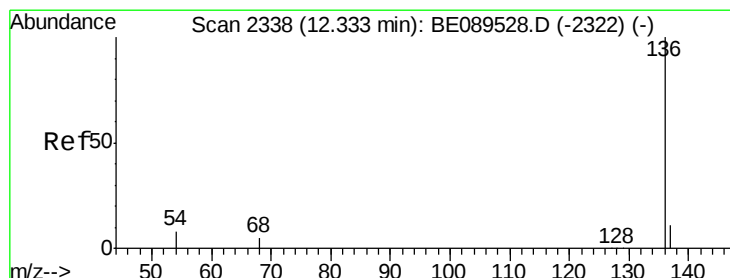
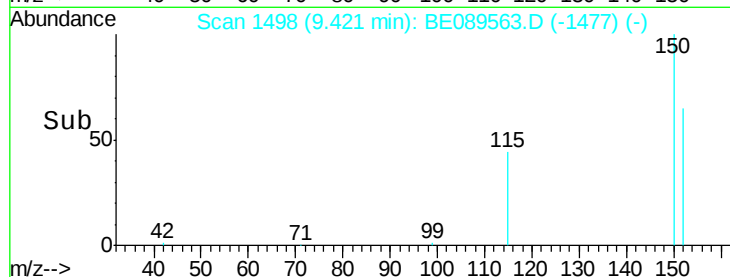
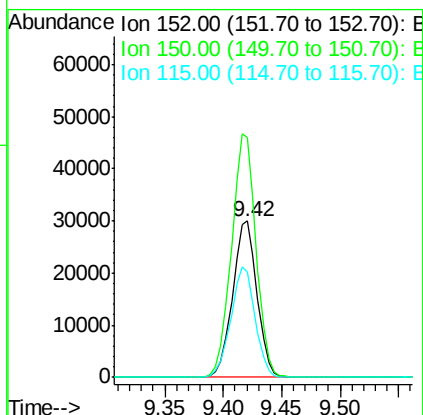
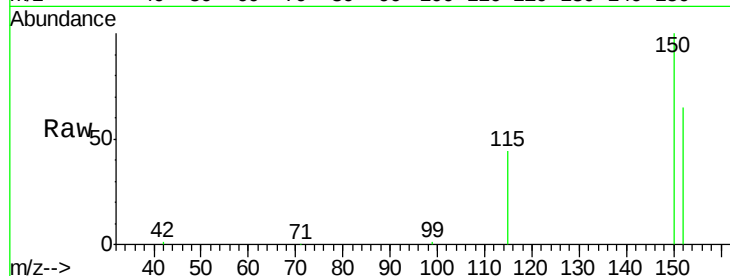




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 9.42 min Scan# 1498
 Delta R.T. -0.00 min
 Lab File: BE089563.D
 Acq: 7 Feb 2015 17:52

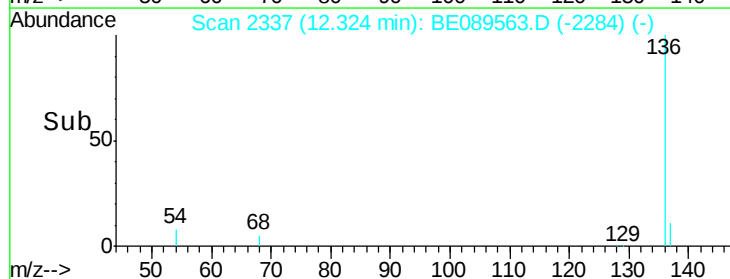
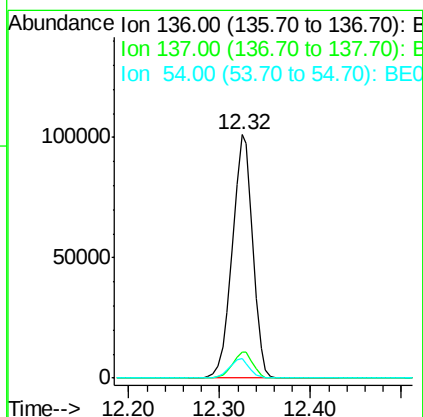
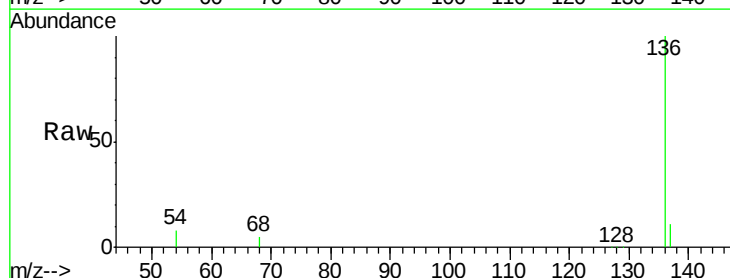
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion:152 Resp: 43202
 Ion Ratio Lower Upper
 152 100
 150 153.5 125.7 188.5
 115 67.5 55.6 83.4



#2
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.32 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BE089563.D
 Acq: 7 Feb 2015 17:52

Tgt Ion:136 Resp: 157908
 Ion Ratio Lower Upper
 136 100
 137 10.7 8.7 13.1
 54 7.9 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.75 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

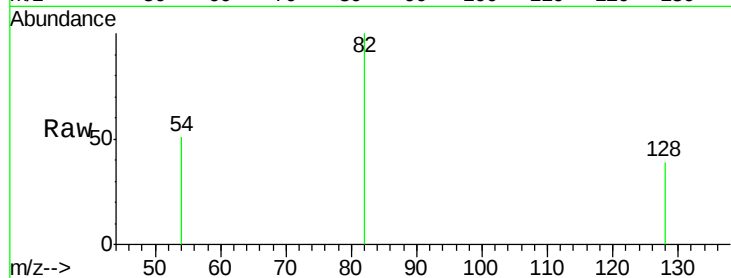
Tgt Ion: 82 Resp: 102223

Ion Ratio Lower Upper

82 100

128 39.3 30.2 45.4

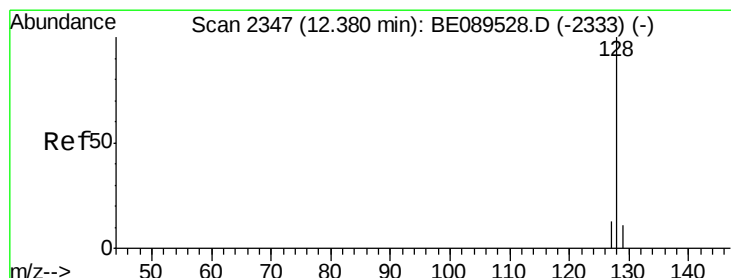
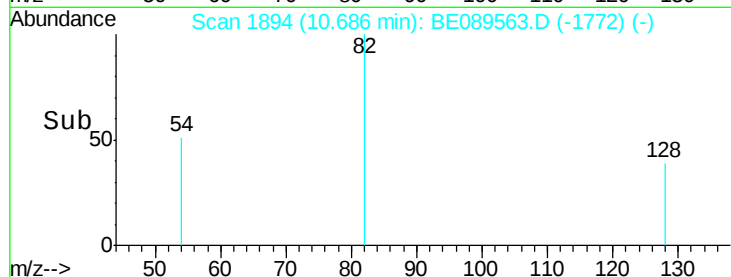
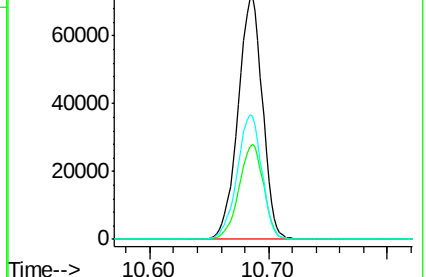
54 50.6 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE089528.D (-1876) (-)

Ion 128.00 (127.70 to 128.70): BE089528.D (-1876) (-)

Ion 54.00 (53.70 to 54.70): BE089528.D (-1876) (-)



#4

Naphthalene

Concen: 0.08 ng

RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

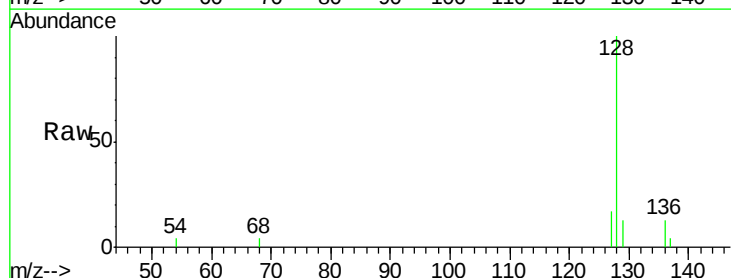
Tgt Ion: 128 Resp: 2735

Ion Ratio Lower Upper

128 100

129 13.2 9.1 13.7

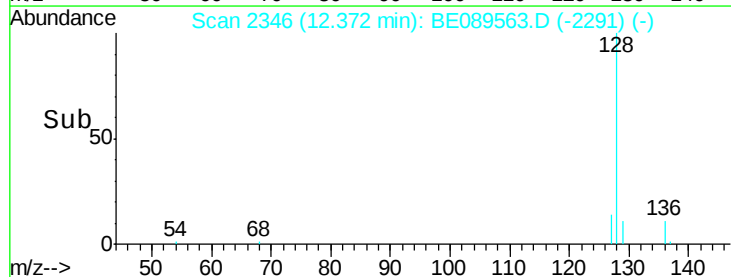
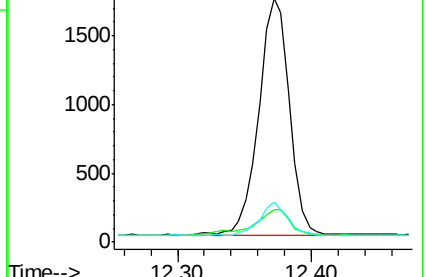
127 16.7 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): BE089528.D (-2333) (-)

Ion 129.00 (128.70 to 129.70): BE089528.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): BE089528.D (-2333) (-)





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.03 min Scan# 2679

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

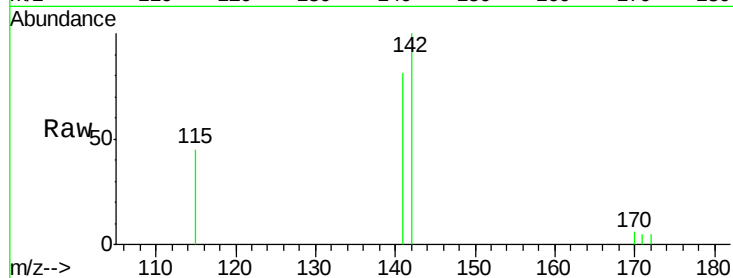
Tgt Ion:142 Resp: 1310

Ion Ratio Lower Upper

142 100

141 80.6 67.0 100.6

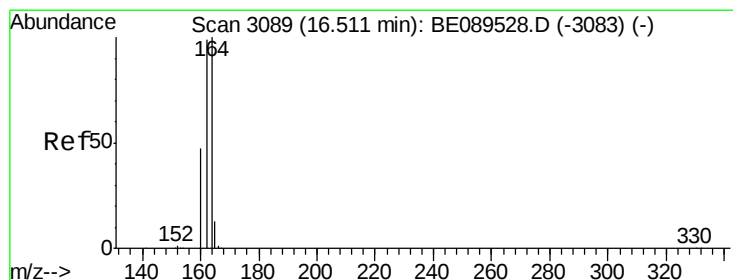
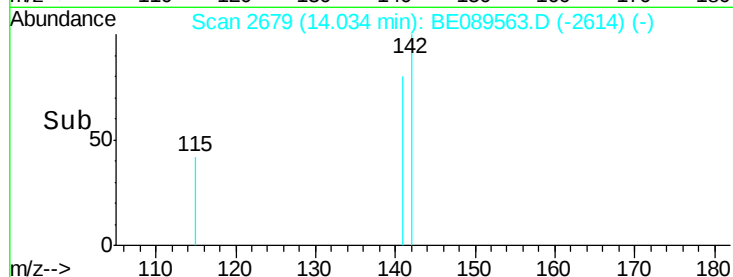
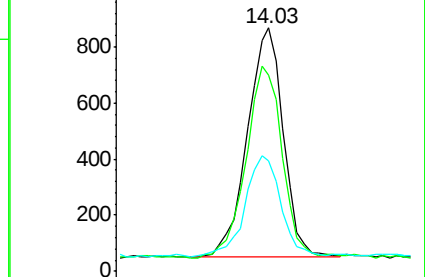
115 45.2 30.6 45.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

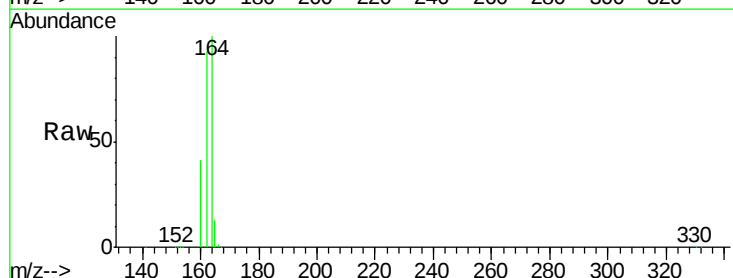
Tgt Ion:164 Resp: 62688

Ion Ratio Lower Upper

164 100

162 92.5 79.5 119.3

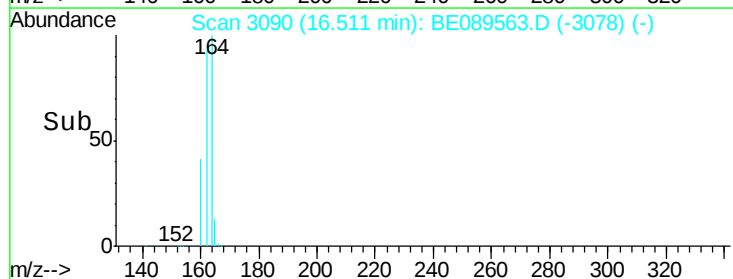
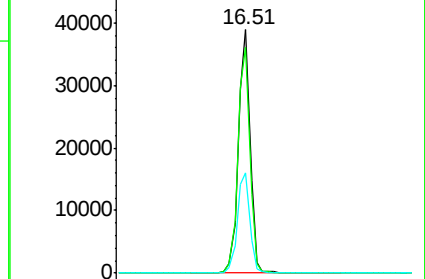
160 41.3 37.6 56.4



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





#7

2-Fluorobiphenyl

Concen: 8.60 ng

RT: 14.96 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

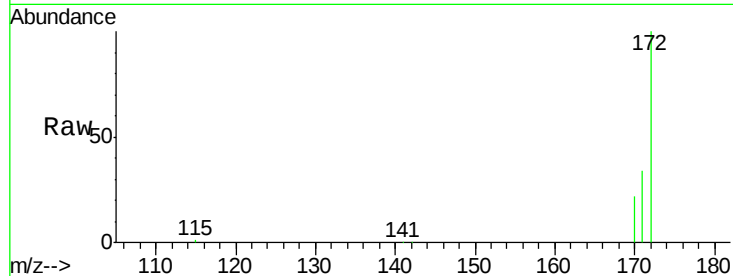
Tgt Ion:172 Resp: 143859

Ion Ratio Lower Upper

172 100

171 33.7 27.7 41.5

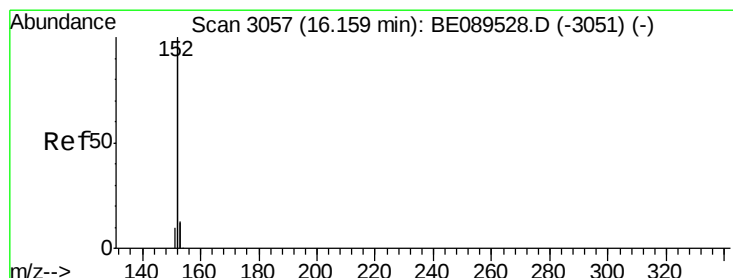
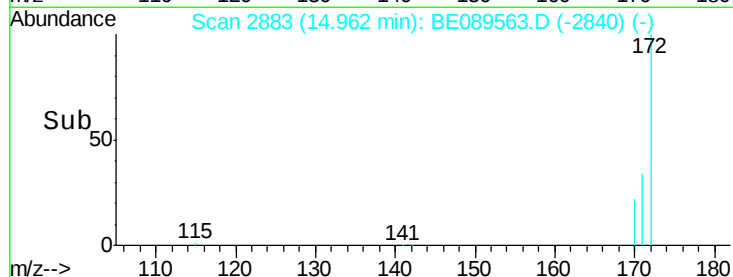
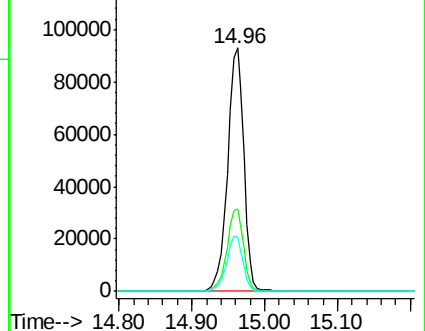
170 22.0 18.3 27.5



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



#8

Acenaphthylene

Concen: 0.06 ng

RT: 16.16 min Scan# 3058

Delta R.T. 0.00 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

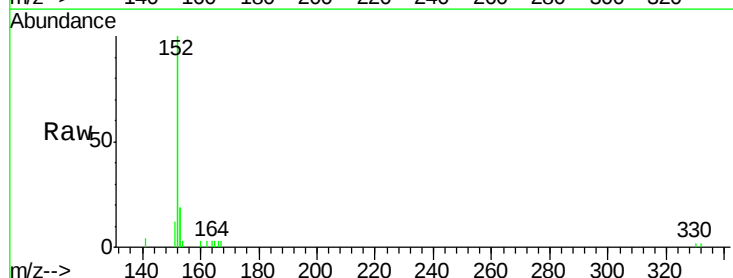
Tgt Ion:152 Resp: 5906

Ion Ratio Lower Upper

152 100

151 5.1 4.0 6.0

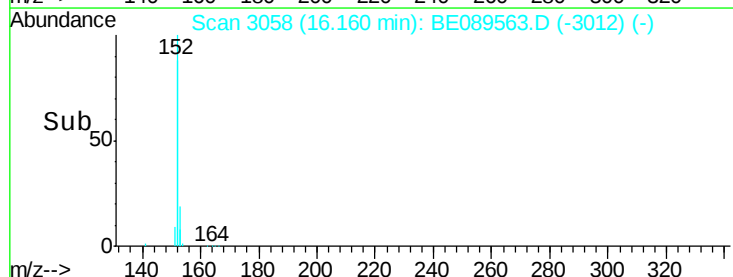
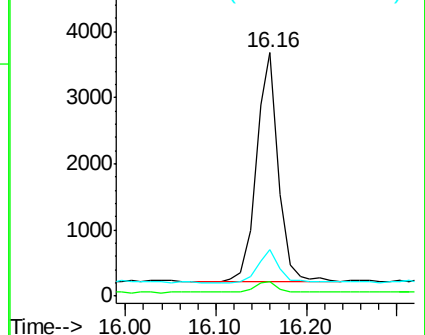
153 14.0 10.6 15.8

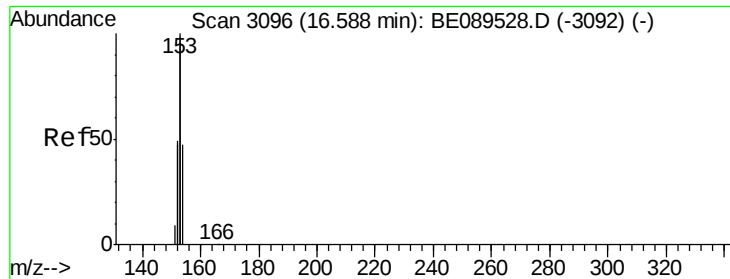


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.58 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

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MDL-02-W

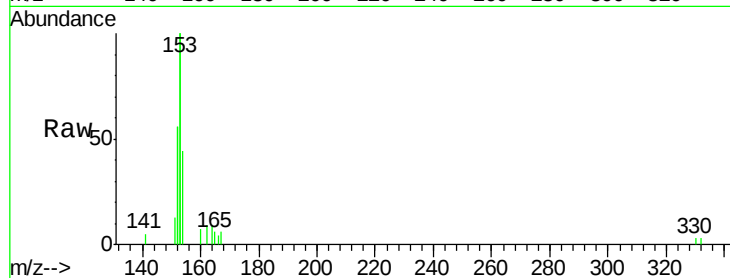
Tgt Ion:154 Resp: 1061

Ion Ratio Lower Upper

154 100

153 449.1 340.8 511.2

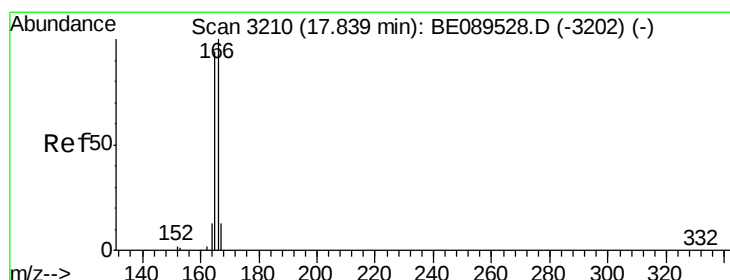
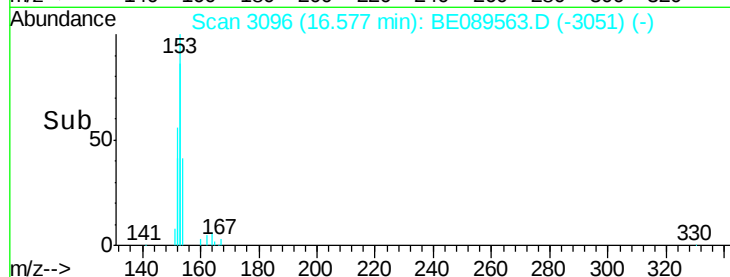
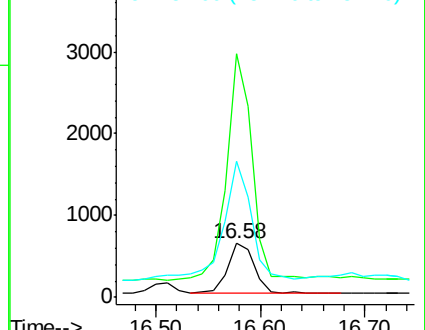
152 256.8 165.5 248.3#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.06 ng

RT: 17.83 min Scan# 3210

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

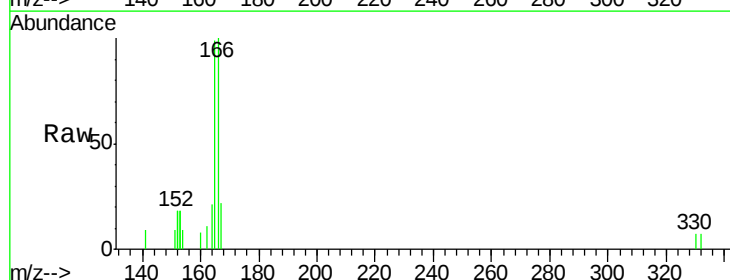
Tgt Ion:166 Resp: 1043

Ion Ratio Lower Upper

166 100

165 93.0 75.5 113.3

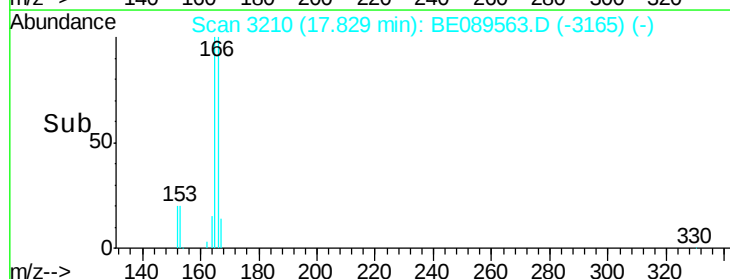
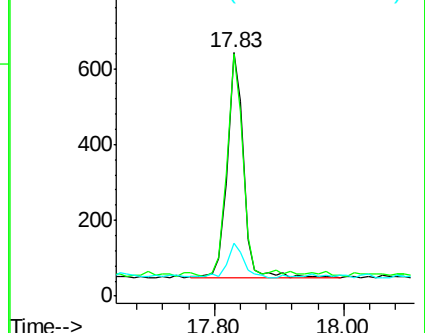
167 15.4 10.9 16.3

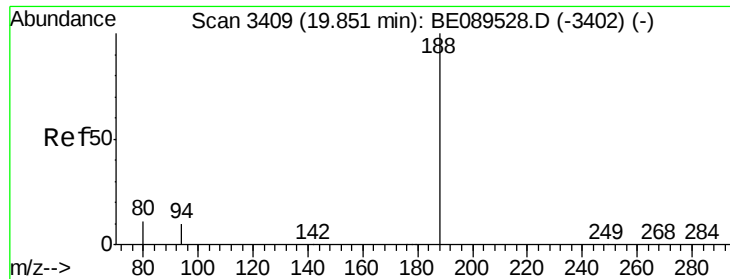


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

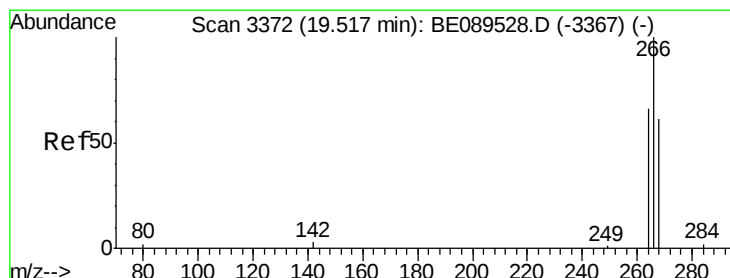
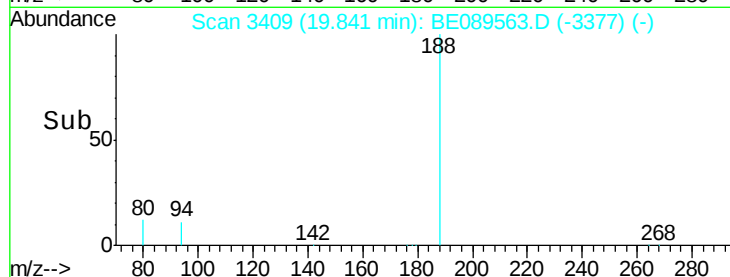
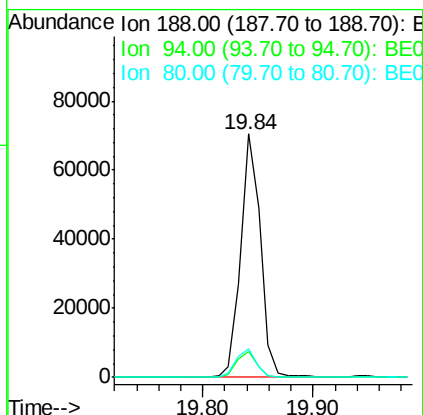
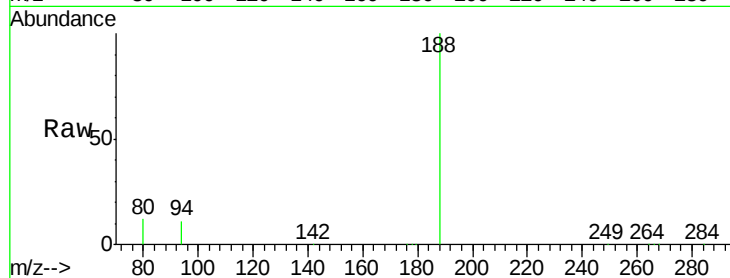




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3409
Delta R.T. -0.01 min
Lab File: BE089563.D
Acq: 7 Feb 2015 17:52

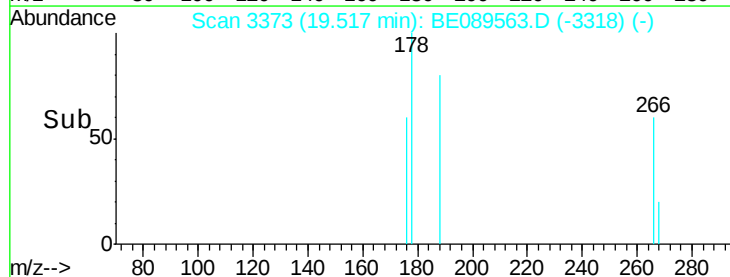
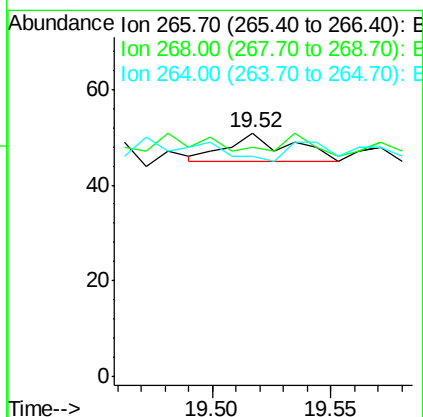
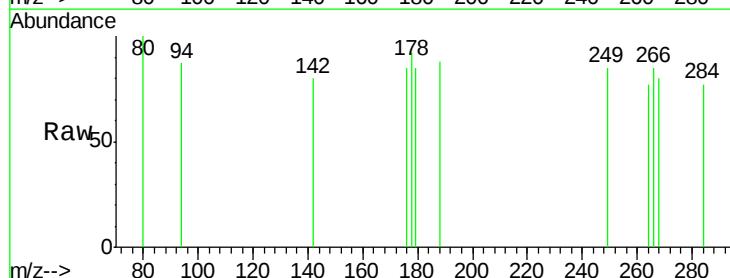
Instrument :
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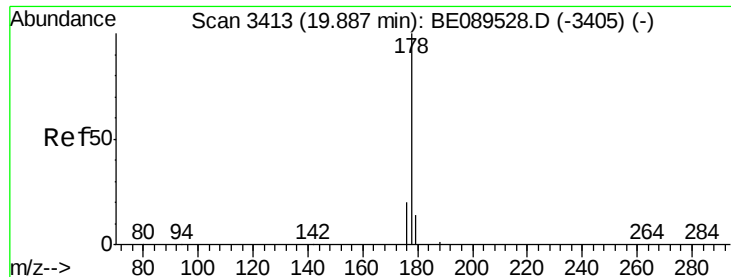
Tgt Ion:188 Resp: 87700
Ion Ratio Lower Upper
188 100
94 10.8 8.4 12.6
80 11.6 8.6 12.8



#12
Pentachlorophenol
Concen: 0.55 ng
RT: 19.52 min Scan# 3373
Delta R.T. -0.00 min
Lab File: BE089563.D
Acq: 7 Feb 2015 17:52

Tgt Ion:266 Resp: 11
Ion Ratio Lower Upper
266 100
268 94.1 57.9 86.9#
264 90.2 60.2 90.4

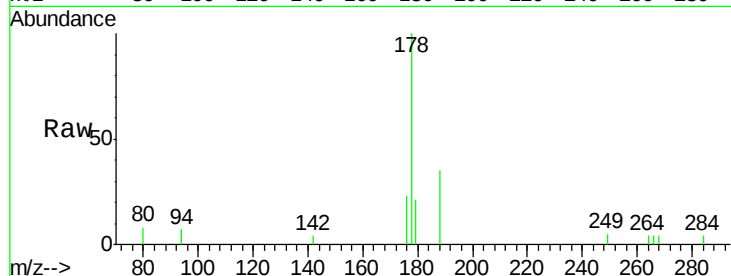




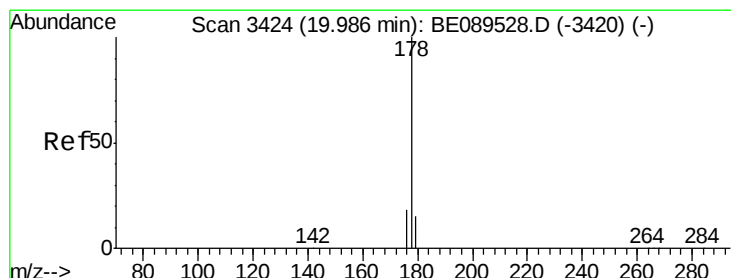
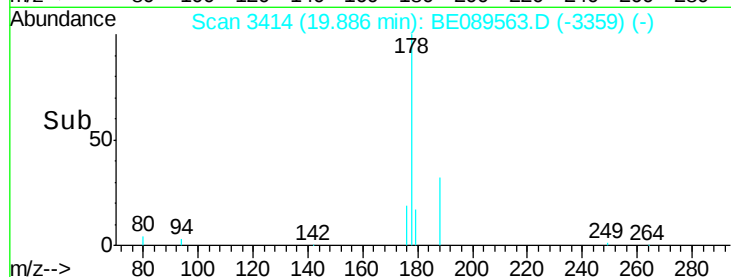
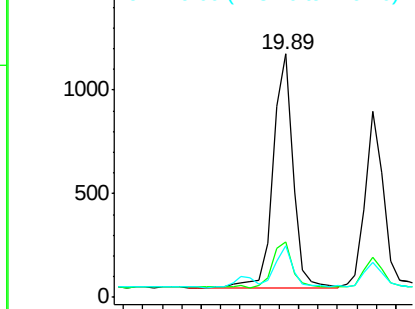
#13
Phenanthrene
Concen: 0.07 ng
RT: 19.89 min Scan# 3414
Delta R.T. -0.00 min
Lab File: BE089563.D
Acq: 7 Feb 2015 17:52

Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion:178 Resp: 1592
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.3 12.2 18.2

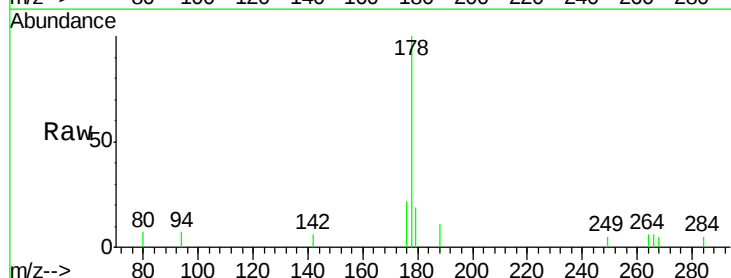


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

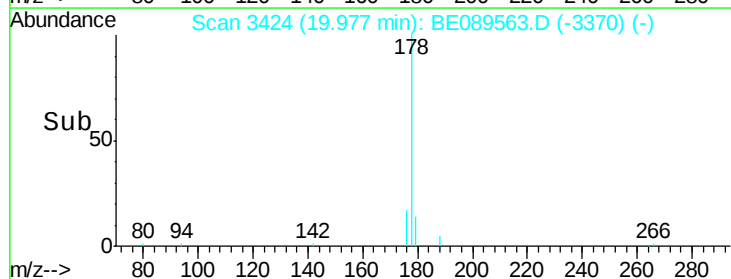
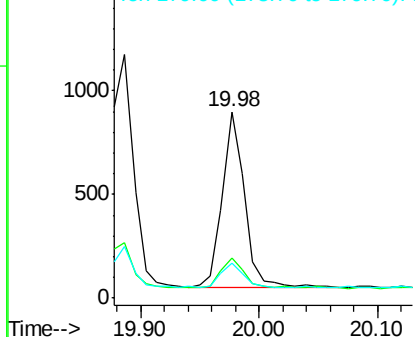


#14
Anthracene
Concen: 0.06 ng
RT: 19.98 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BE089563.D
Acq: 7 Feb 2015 17:52

Tgt Ion:178 Resp: 1108
Ion Ratio Lower Upper
178 100
176 17.9 14.5 21.7
179 14.7 12.2 18.2



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

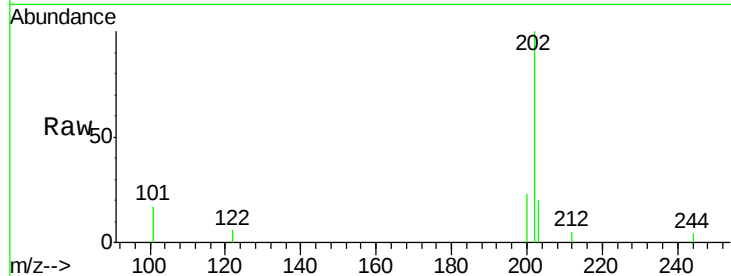




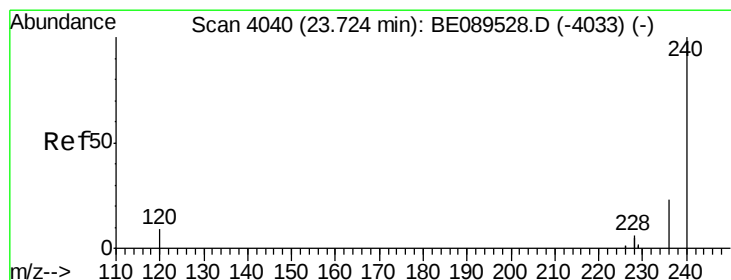
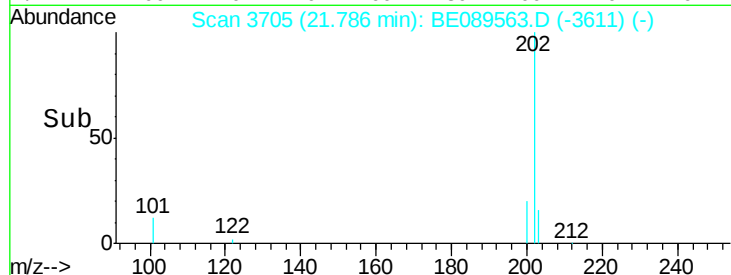
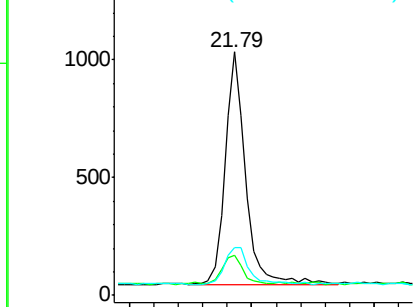
#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089563.D
 Acq: 7 Feb 2015 17:52

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion:202 Resp: 1138
 Ion Ratio Lower Upper
 202 100
 101 13.2 11.6 17.4
 203 19.8 13.6 20.4

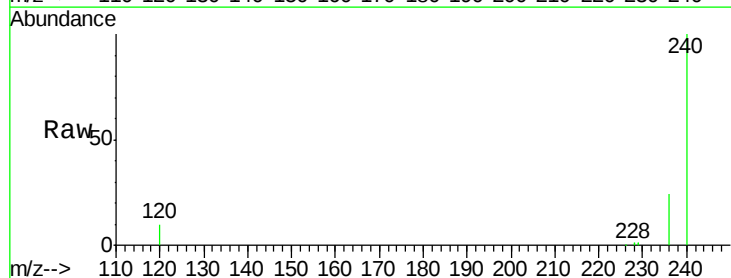


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

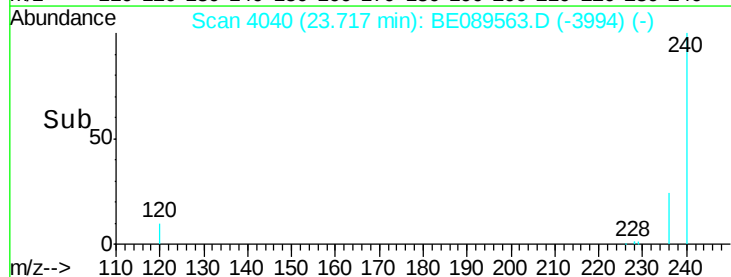
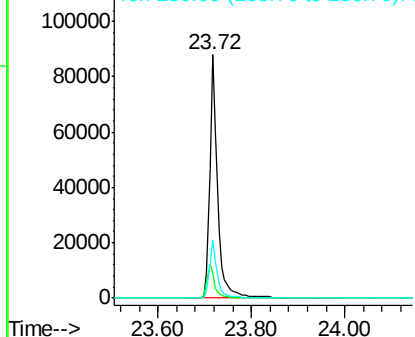


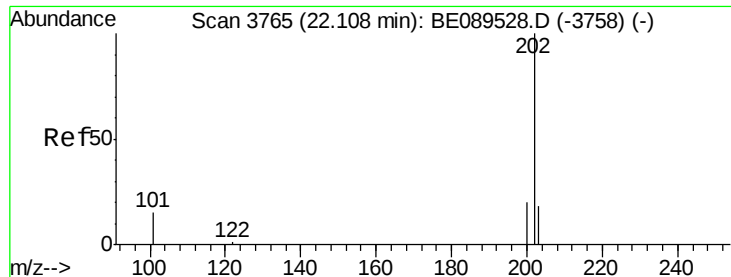
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: BE089563.D
 Acq: 7 Feb 2015 17:52

Tgt Ion:240 Resp: 103073
 Ion Ratio Lower Upper
 240 100
 120 10.1 7.2 10.8
 236 23.8 18.5 27.7



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





#17

Pyrene

Concen: 0.06 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

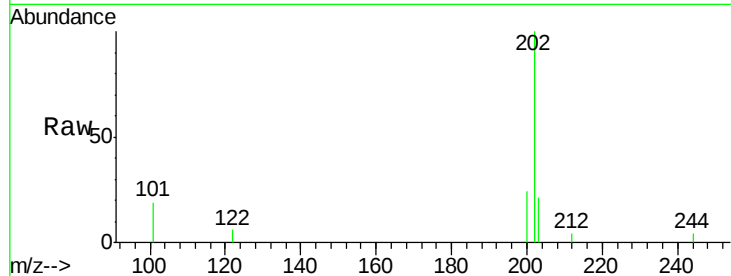
Tgt Ion:202 Resp: 1237

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

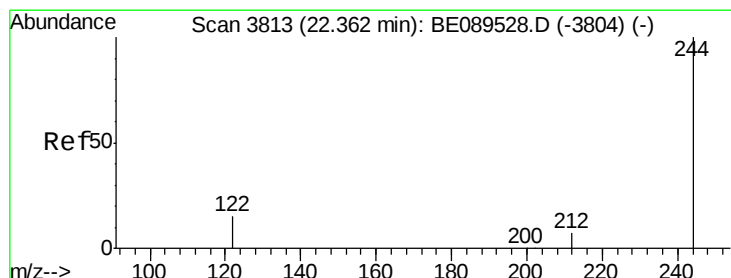
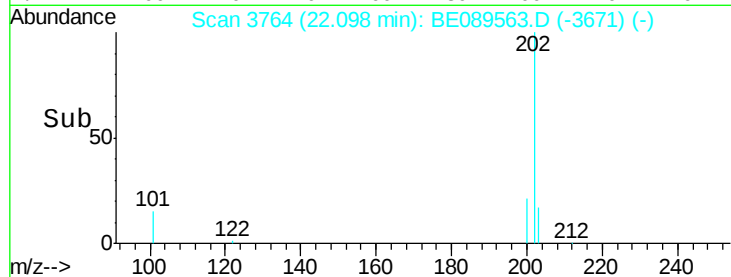
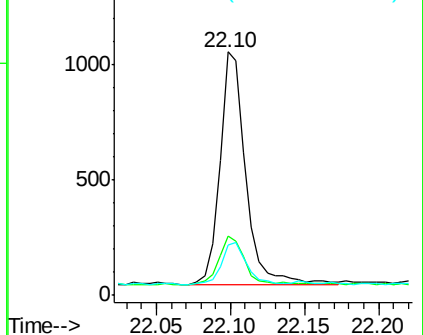
203 17.1 13.5 20.3



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



#18

Terphenyl-d14

Concen: 8.74 ng

RT: 22.36 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

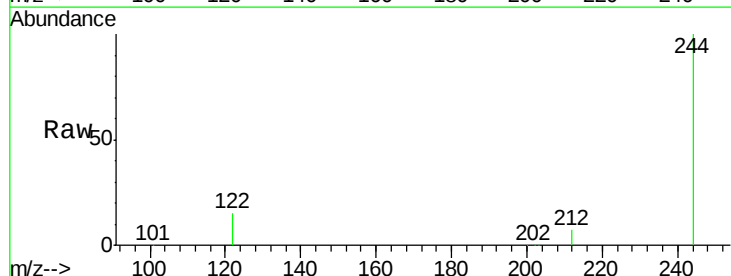
Tgt Ion:244 Resp: 118794

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

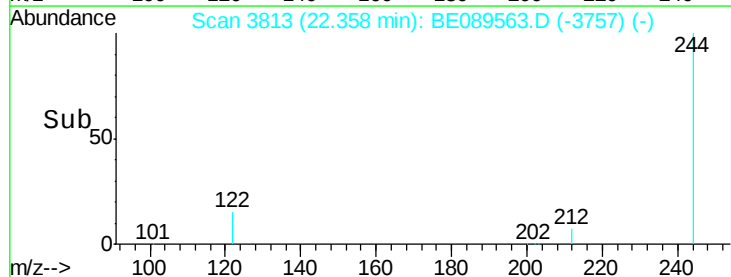
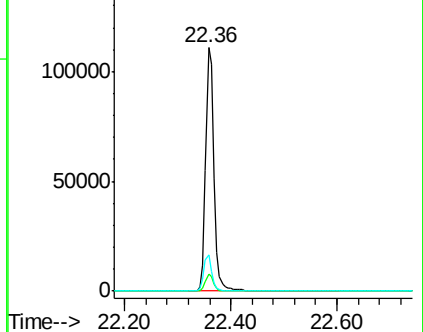
122 14.7 12.6 19.0



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





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4038

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

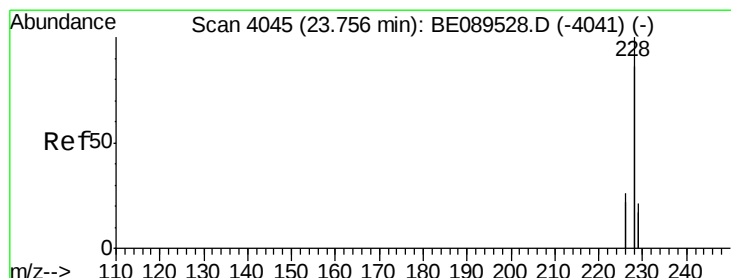
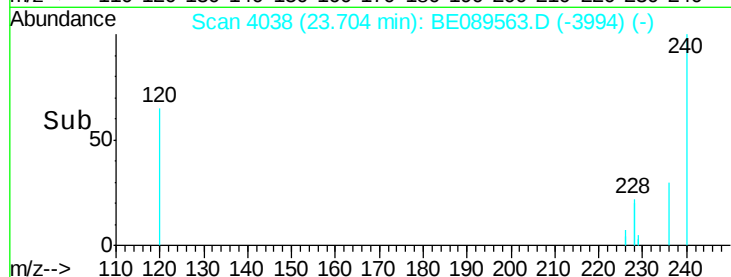
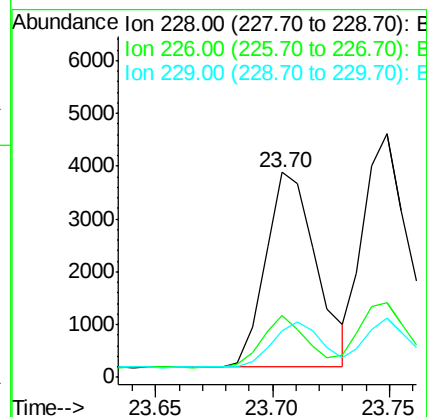
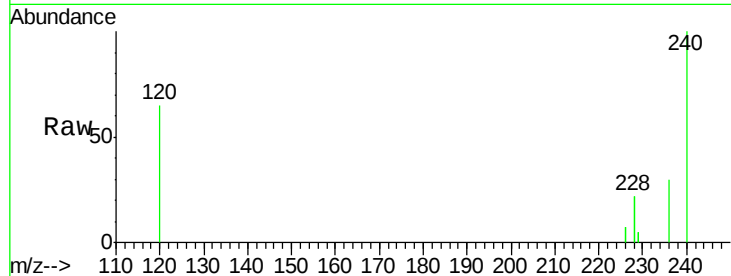
Tgt Ion:228 Resp: 5563

Ion Ratio Lower Upper

228 100

226 30.2 19.0 28.4#

229 22.8 16.8 25.2



#20

Chrysene

Concen: 0.08 ng

RT: 23.75 min Scan# 4045

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

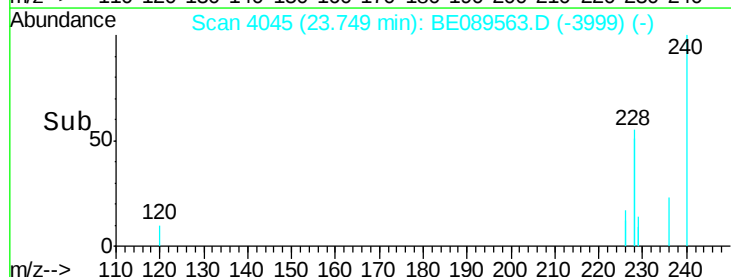
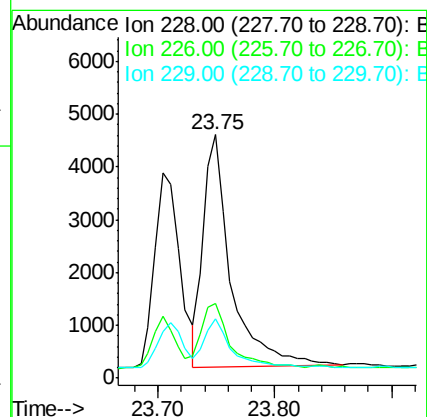
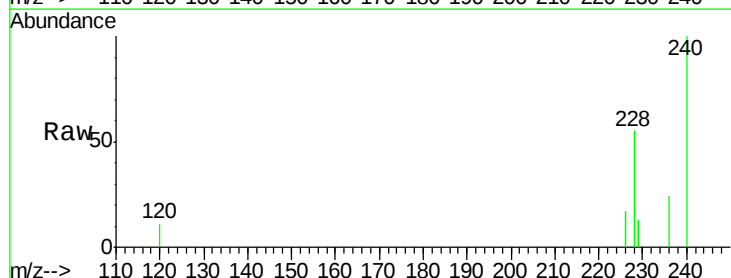
Tgt Ion:228 Resp: 7230

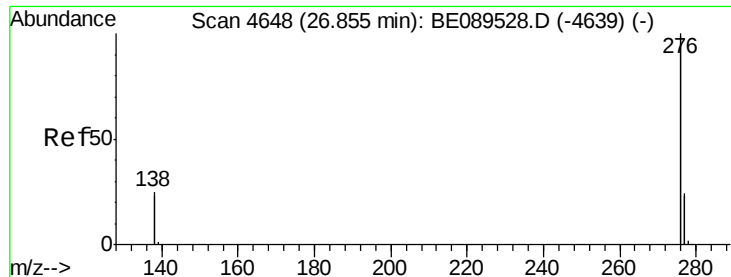
Ion Ratio Lower Upper

228 100

226 30.8 21.0 31.4

229 24.6 16.7 25.1





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng

RT: 26.84 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

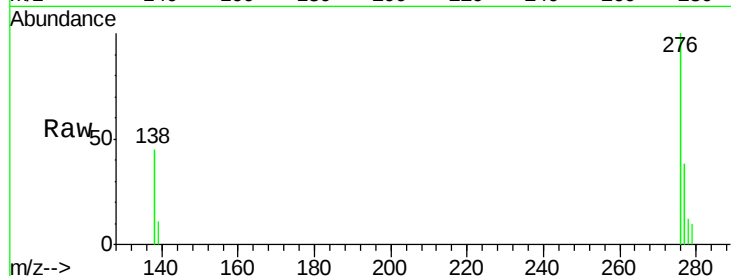
Tgt Ion:276 Resp: 4612

Ion Ratio Lower Upper

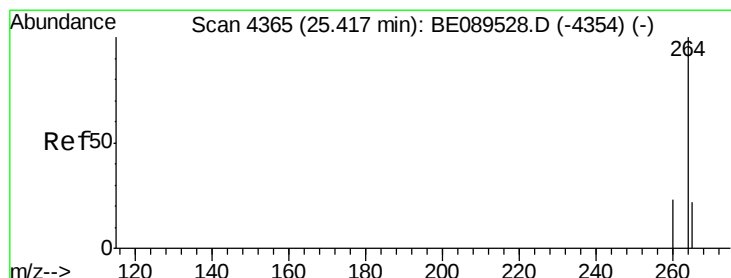
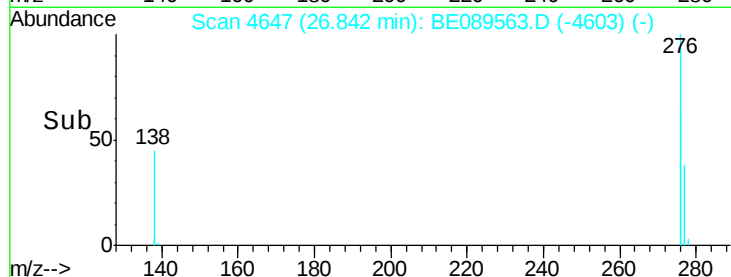
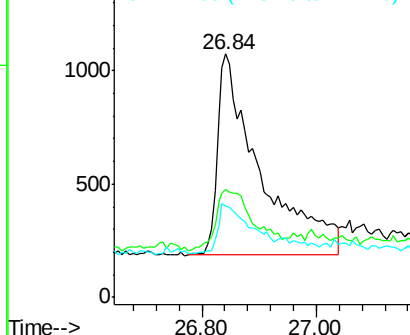
276 100

138 28.5 23.0 34.4

277 19.3 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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4365

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

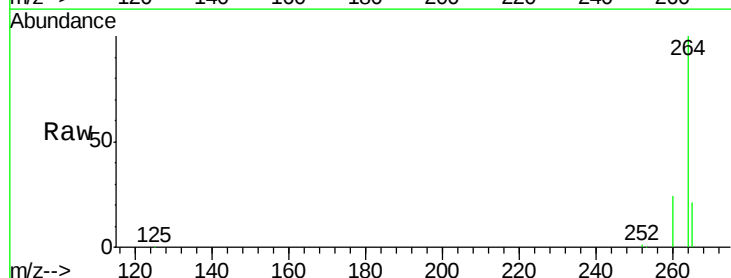
Tgt Ion:264 Resp: 129613

Ion Ratio Lower Upper

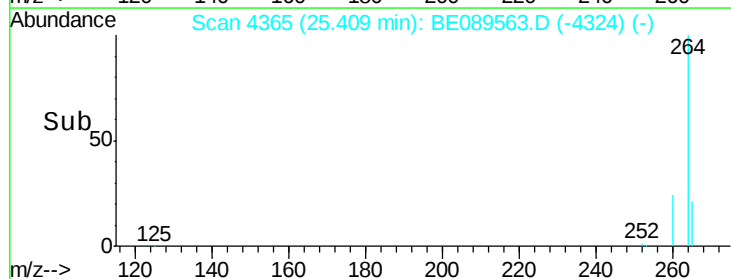
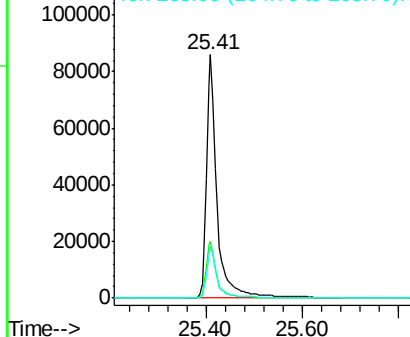
264 100

260 23.6 18.7 28.1

265 21.4 17.5 26.3



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





#23

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 24.98 min Scan# 4270

Delta R.T. -0.00 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

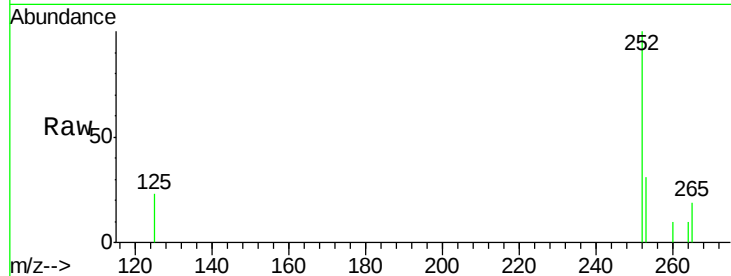
Tgt Ion:252 Resp: 661

Ion Ratio Lower Upper

252 100

253 31.1 17.4 26.0#

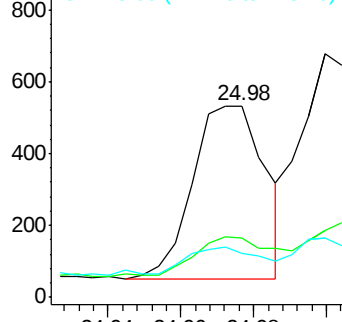
125 22.7 10.4 15.6#



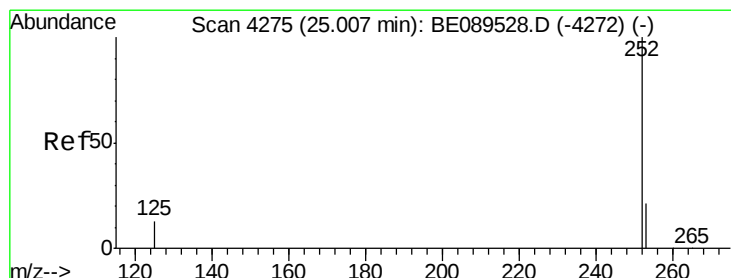
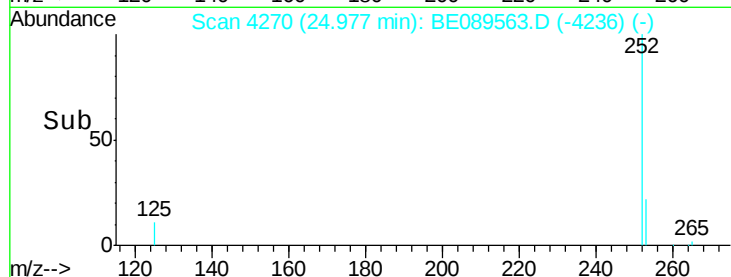
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#24

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 25.00 min Scan# 4275

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

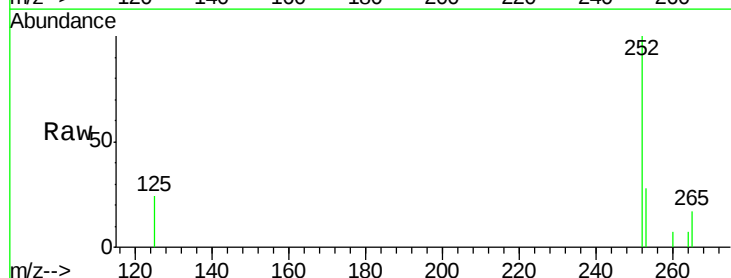
Tgt Ion:252 Resp: 1116

Ion Ratio Lower Upper

252 100

253 27.8 17.2 25.8#

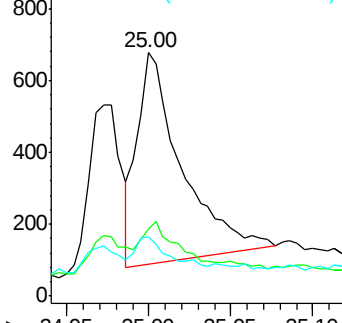
125 24.2 10.6 15.8#



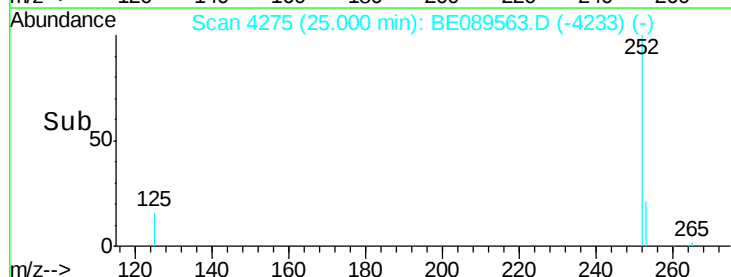
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#25

Benzo(a)pyrene

Concen: 0.03 ng

RT: 25.34 min Scan# 4350

Delta R.T. -0.01 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W

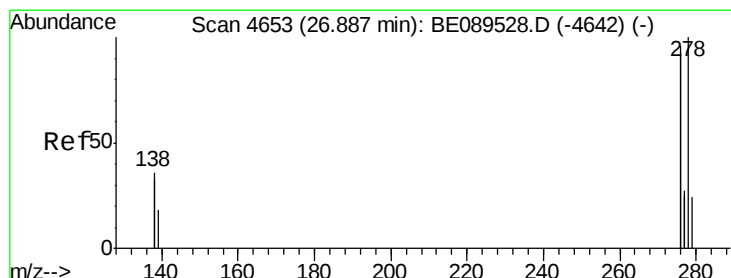
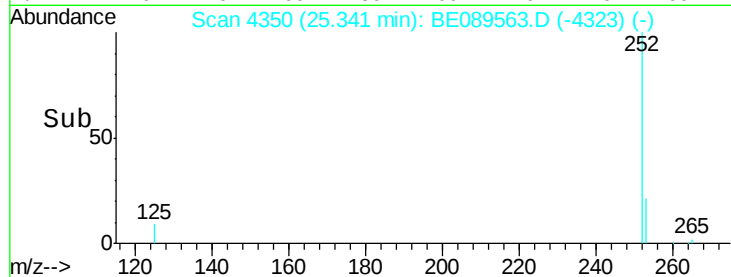
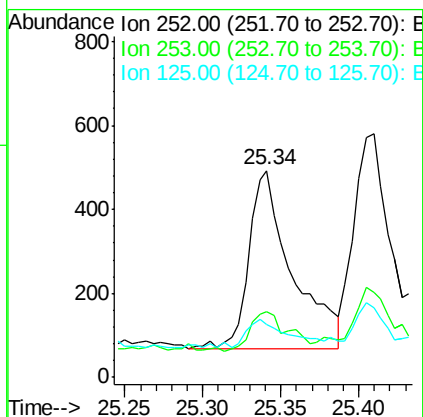
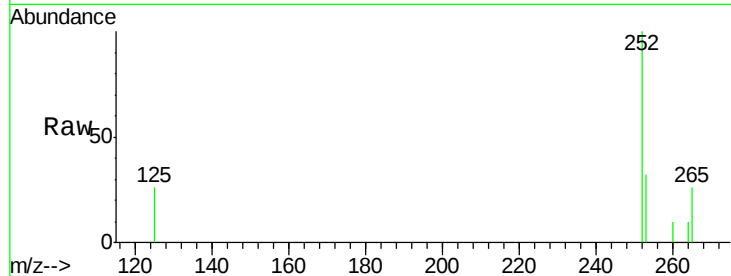
Tgt Ion: 252 Resp: 811

Ion Ratio Lower Upper

252 100

253 31.6 17.8 26.6#

125 25.8 11.4 17.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.02 ng

RT: 26.87 min Scan# 4651

Delta R.T. -0.02 min

Lab File: BE089563.D

Acq: 7 Feb 2015 17:52

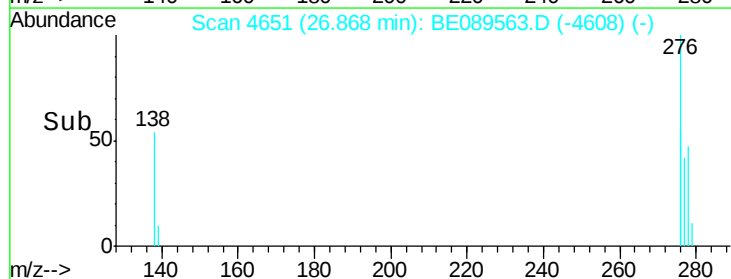
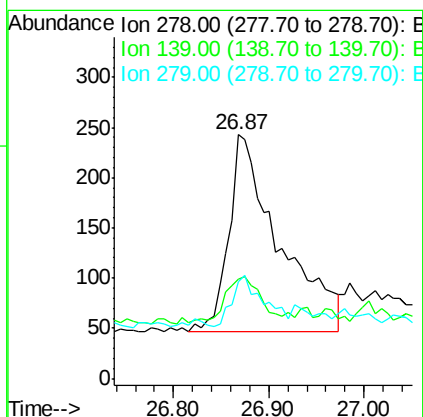
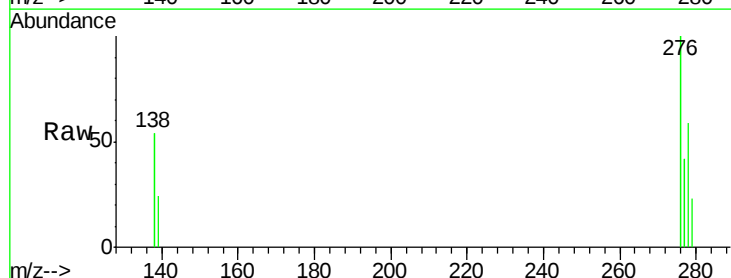
Tgt Ion: 278 Resp: 730

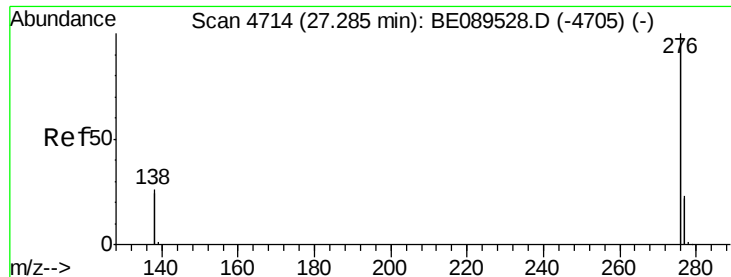
Ion Ratio Lower Upper

278 100

139 40.7 15.7 23.5#

279 39.9 19.5 29.3#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.27 min Scan# 4713

Delta R.T. -0.01 min

Lab File: BE089563.D

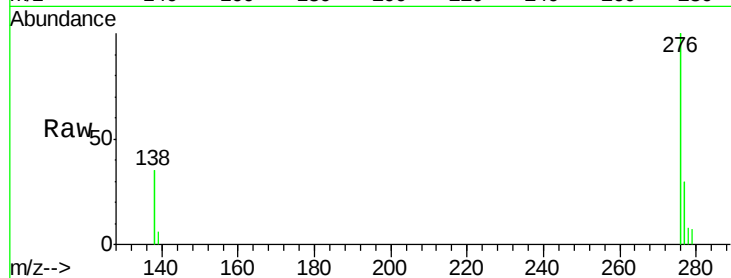
Acq: 7 Feb 2015 17:52

Instrument :

BNA_E

ClientSampleId :

MDL-02-W



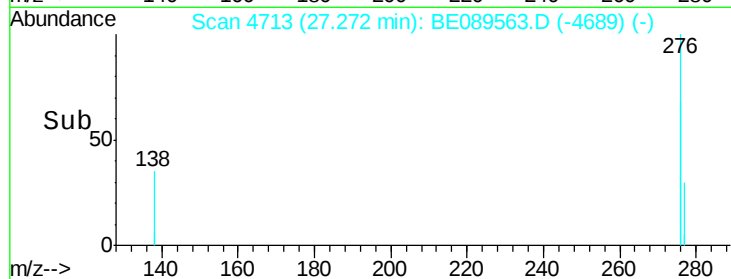
Tgt Ion: 276 Resp: 4699

Ion Ratio Lower Upper

276 100

277 30.3 18.6 27.8#

138 34.8 20.9 31.3#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

