

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089564.D
 Acq On : 11 Feb 2015 00:57
 Operator : TP/IZ
 Sample : MDL-03-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Quant Time: Feb 11 02:35:27 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 11 01:27:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	54653	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	211632	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	100680	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	180393	5.00	ng	0.00
16) Chrysene-d12	23.71	240	203528	5.00	ng	0.00
22) Perylene-d12	25.40	264	198216	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	107210	7.91	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	166047	6.09	ng	0.00
18) Terphenyl-d14	22.36	244	206481	8.14	ng	0.00

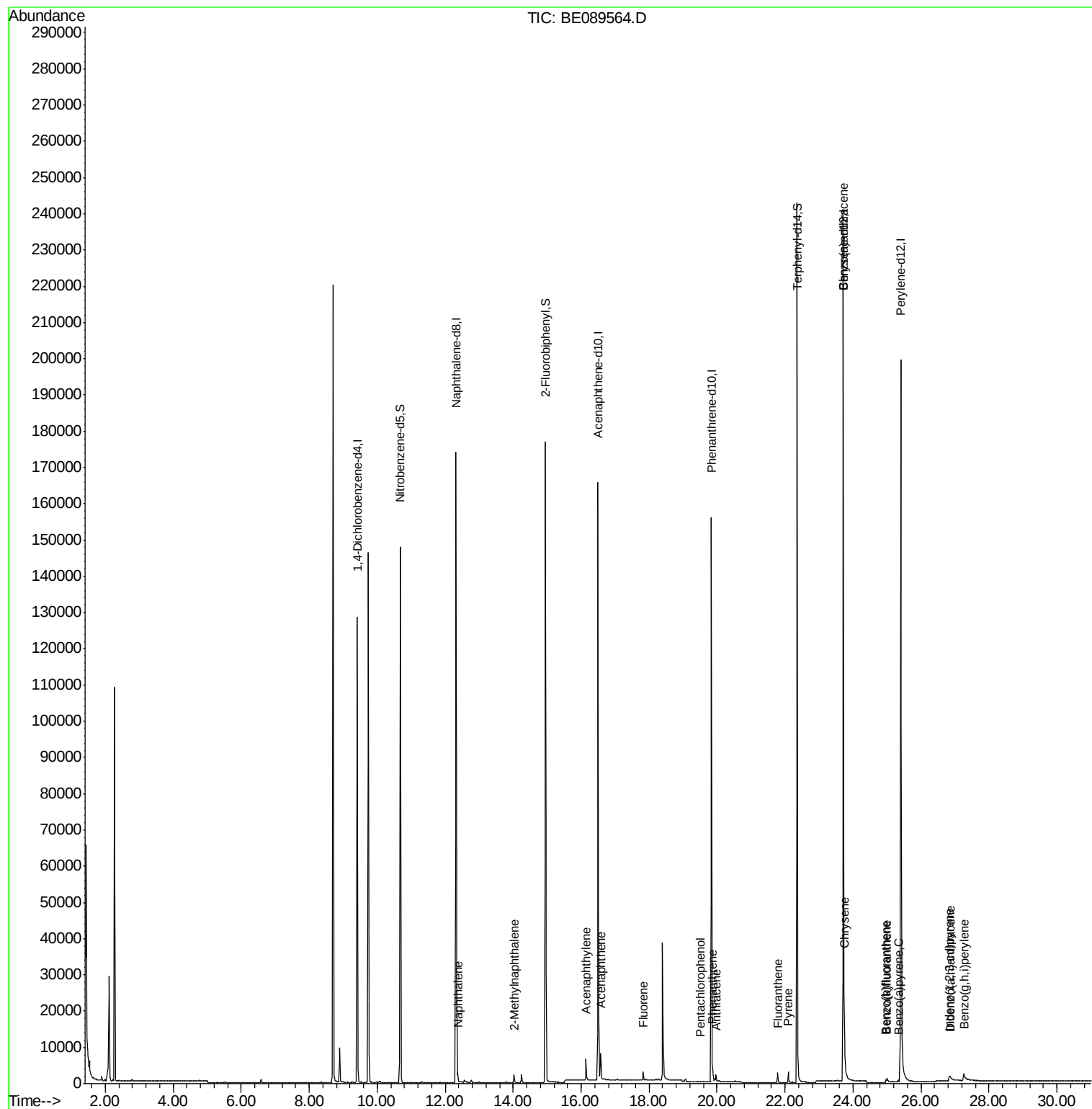
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3003	0.06	ng	# 96
5) 2-Methylnaphthalene	14.03	142	1585	0.06	ng	94
8) Acenaphthylene	16.15	152	7901	0.05	ng	98
9) Acenaphthene	16.58	154	1449	0.05	ng	91
10) Fluorene	17.83	166	1533	0.05	ng	# 96
12) Pentachlorophenol	19.52	266	34	0.34	ng	# 76
13) Phenanthrene	19.88	178	2832	0.06	ng	97
14) Anthracene	19.97	178	2058	0.06	ng	96
15) Fluoranthene	21.78	202	2158	0.05	ng	99
17) Pyrene	22.10	202	2308	0.06	ng	98
19) Benzo(a)anthracene	23.70	228	10521	0.06	ng	93
20) Chrysene	23.74	228	12870	0.07	ng	97
21) Indeno(1,2,3-cd)pyrene	26.83	276	5025	0.06	ng	# 90
23) Benzo(b)fluoranthene	24.97	252	861	0.25	ng	# 86
24) Benzo(k)fluoranthene	25.00	252	1367	0.03	ng	# 84
25) Benzo(a)pyrene	25.34	252	981	0.21	ng	# 81
26) Dibenzo(a,h)anthracene	26.87	278	742	0.14	ng	# 67
27) Benzo(g,h,i)perylene	27.26	276	4983	0.03	ng	# 77

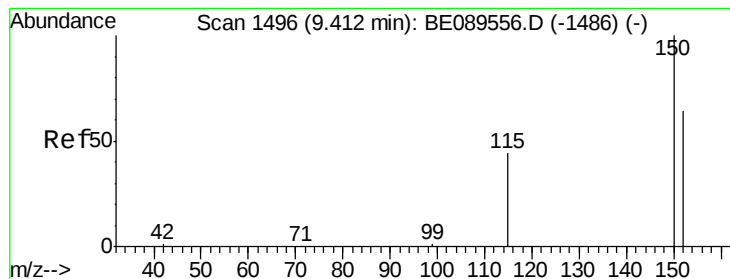
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

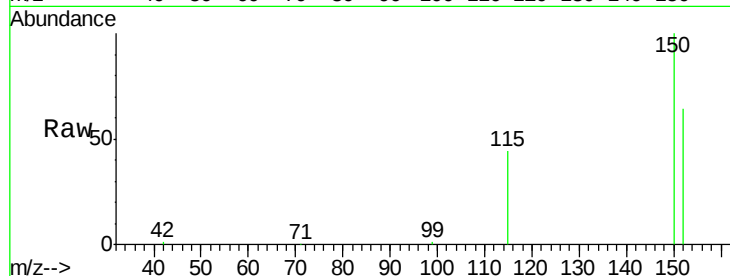
Tgt Ion:152 Resp: 54653

Ion Ratio Lower Upper

152 100

150 156.6 125.6 188.4

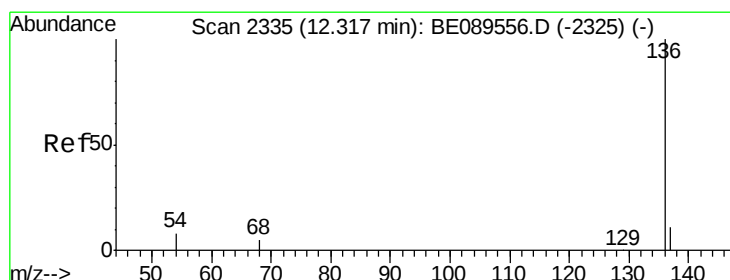
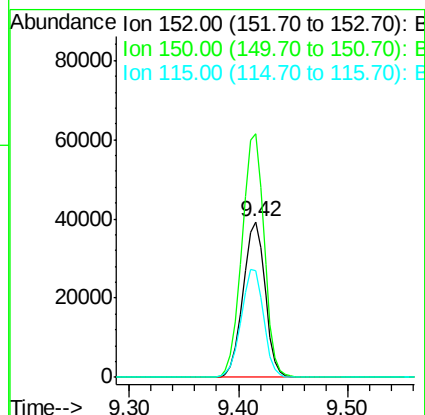
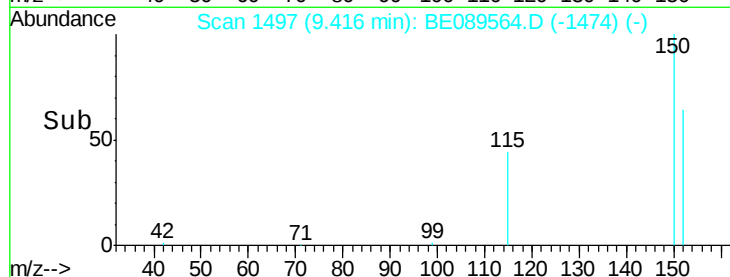
115 68.5 55.8 83.6



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2336

Delta R.T. 0.01 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

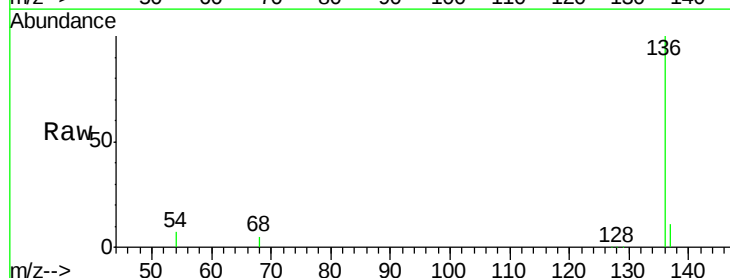
Tgt Ion:136 Resp: 211632

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

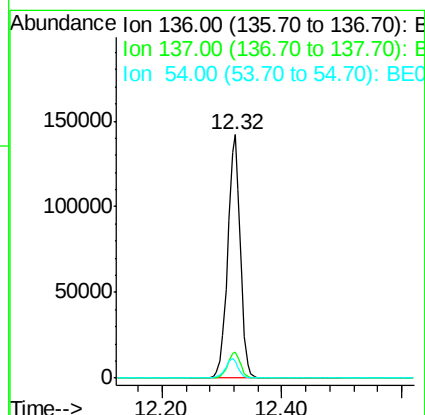
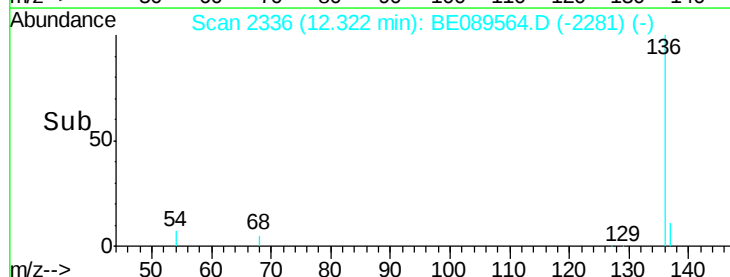
54 6.8 6.6 9.8

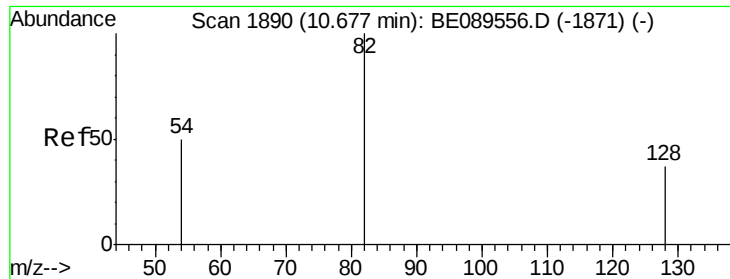


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 7.91 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

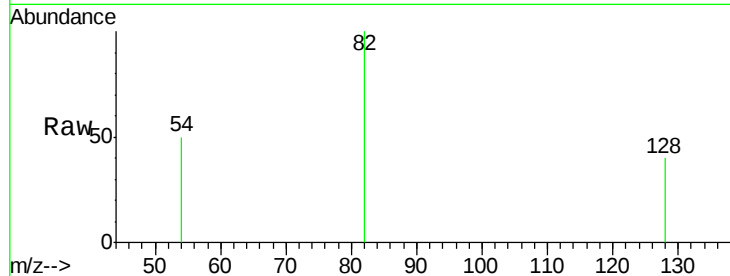
Tgt Ion: 82 Resp: 107210

Ion Ratio Lower Upper

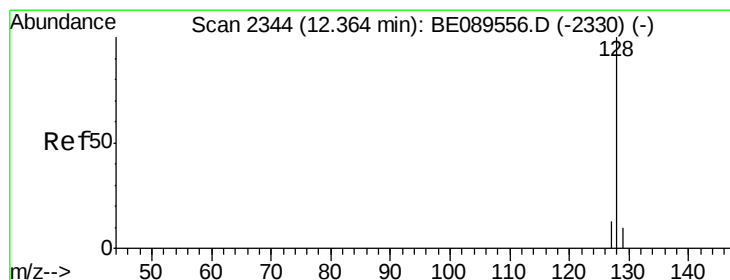
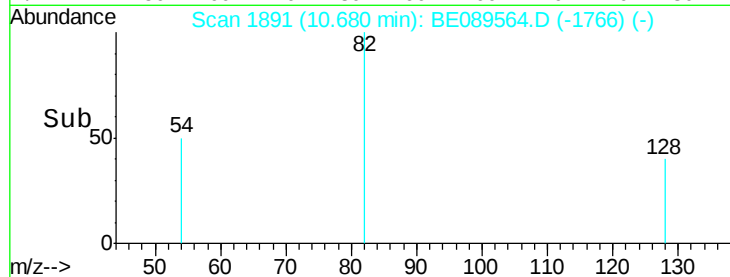
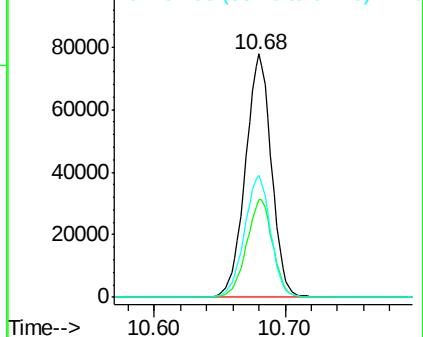
82 100

128 40.0 30.4 45.6

54 50.3 40.7 61.1



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.06 ng

RT: 12.37 min Scan# 2345

Delta R.T. 0.01 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

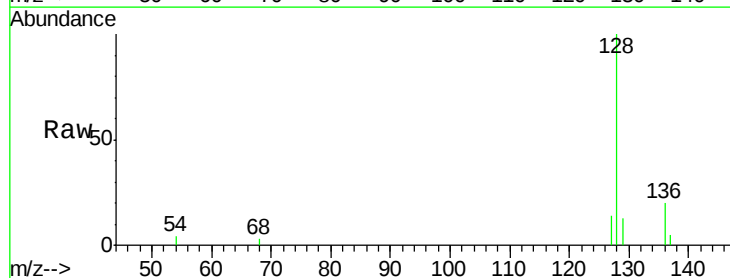
Tgt Ion: 128 Resp: 3003

Ion Ratio Lower Upper

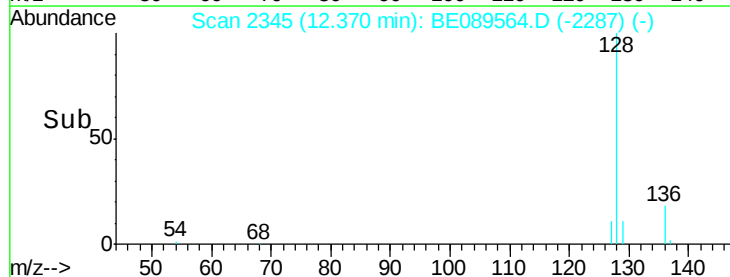
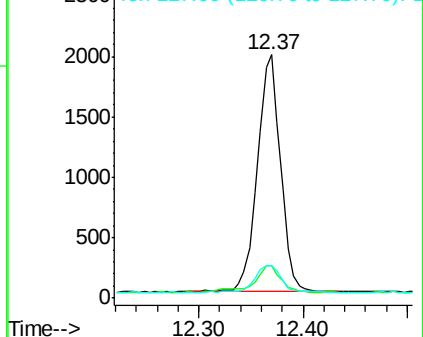
128 100

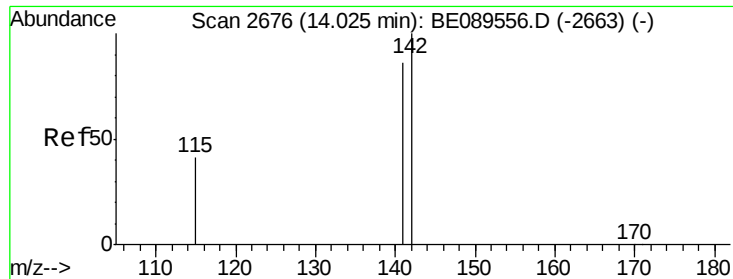
129 13.2 8.5 12.7#

127 13.5 10.6 15.8



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





#5

2-Methylnaphthalene

Concen: 0.06 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

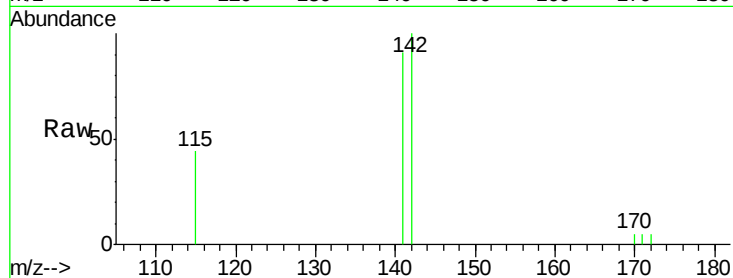
Tgt Ion:142 Resp: 1585

Ion Ratio Lower Upper

142 100

141 91.5 68.6 102.8

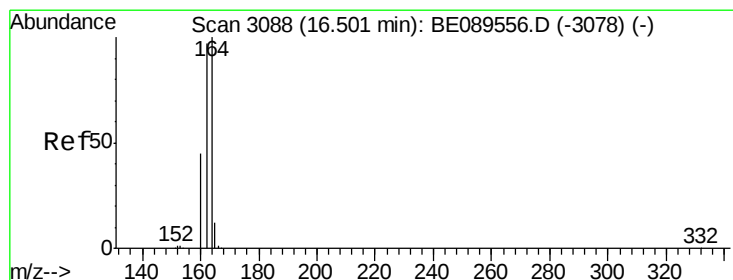
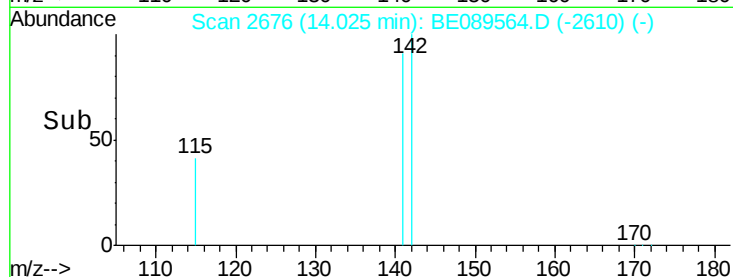
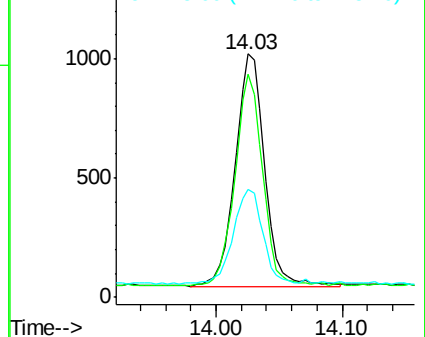
115 44.4 33.0 49.6



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: 16.50 min Scan# 3088

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

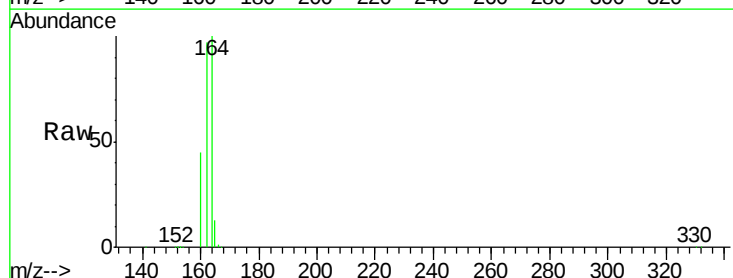
Tgt Ion:164 Resp: 100680

Ion Ratio Lower Upper

164 100

162 97.1 77.8 116.6

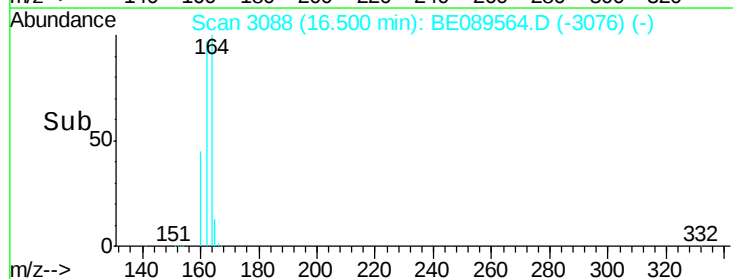
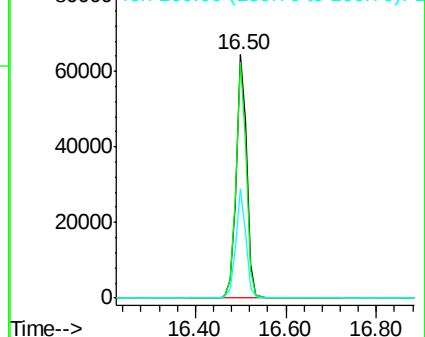
160 45.1 36.2 54.2

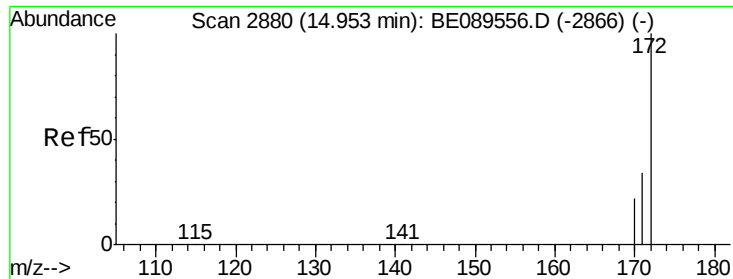


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.09 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

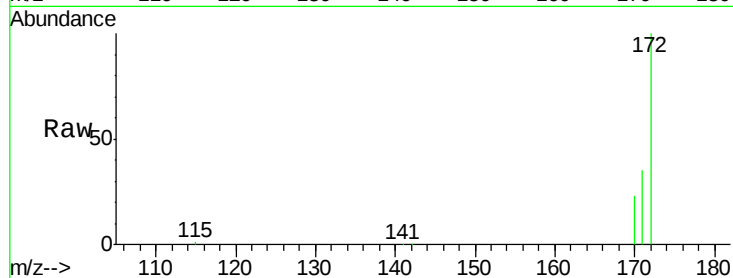
Tgt Ion:172 Resp: 166047

Ion Ratio Lower Upper

172 100

171 34.6 27.4 41.0

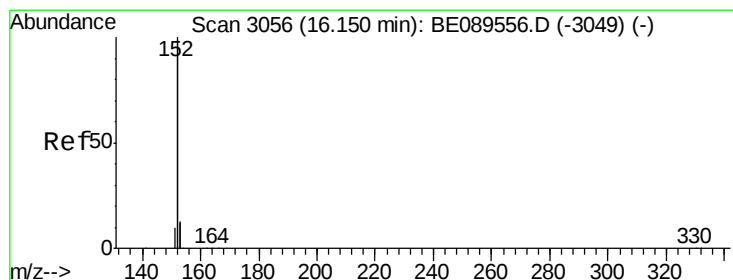
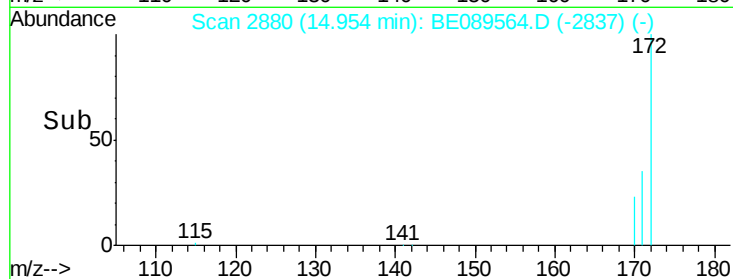
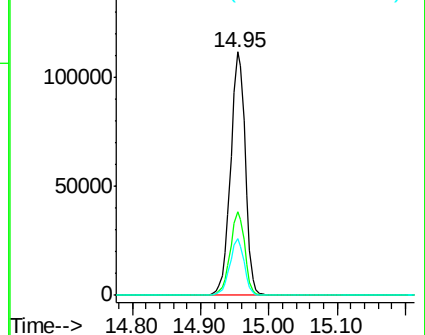
170 23.2 18.3 27.5



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: 0.05 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

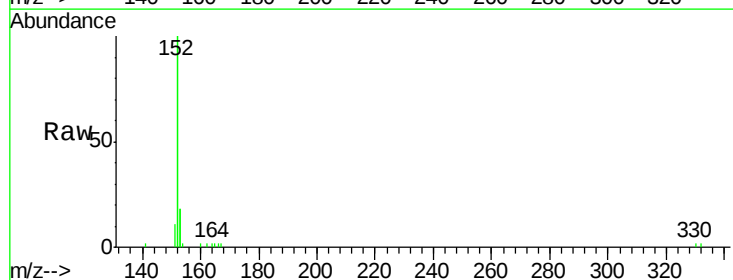
Tgt Ion:152 Resp: 7901

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

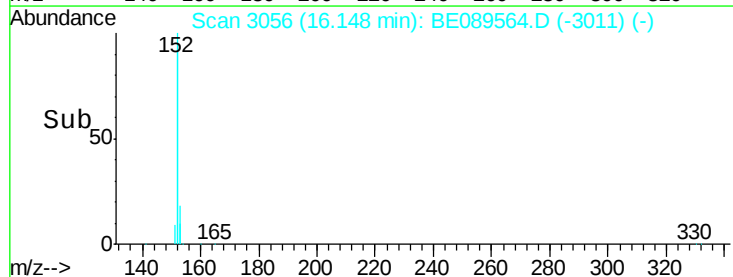
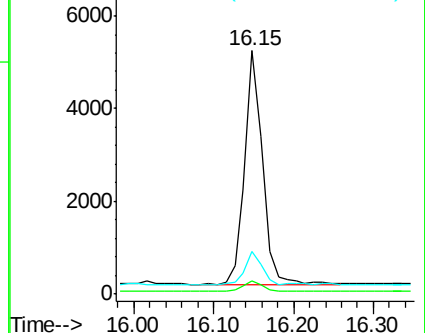
153 14.0 10.4 15.6

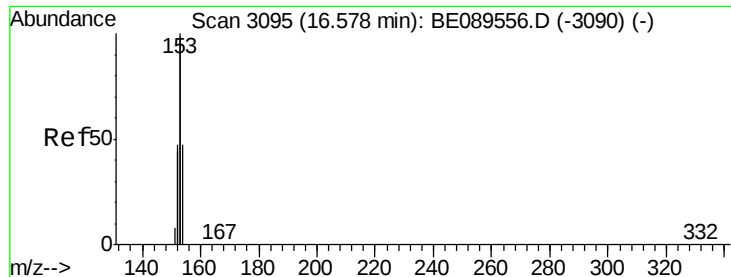


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.05 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampled :

MDL-03-W

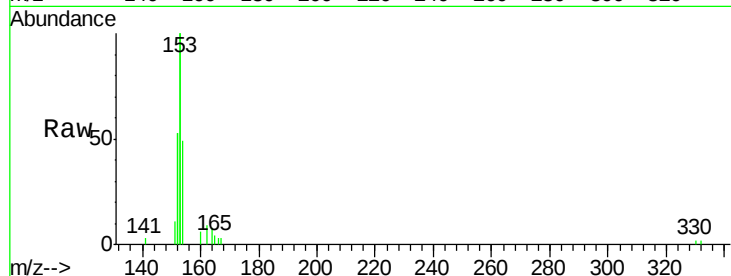
Tgt Ion:154 Resp: 1449

Ion Ratio Lower Upper

154 100

153 427.9 349.0 523.4

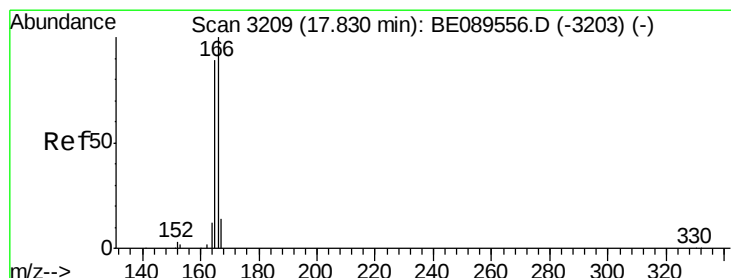
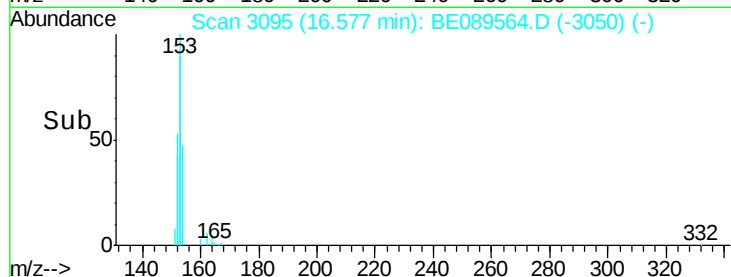
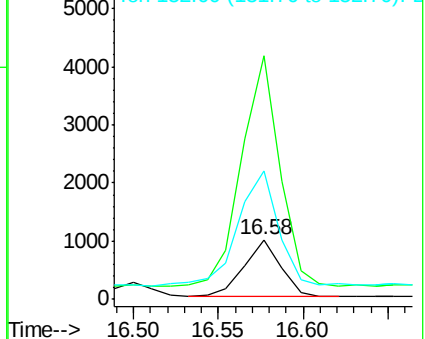
152 248.1 173.0 259.4



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: 0.05 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

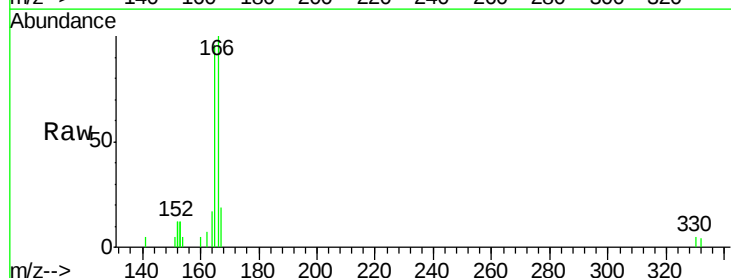
Tgt Ion:166 Resp: 1533

Ion Ratio Lower Upper

166 100

165 97.1 75.1 112.7

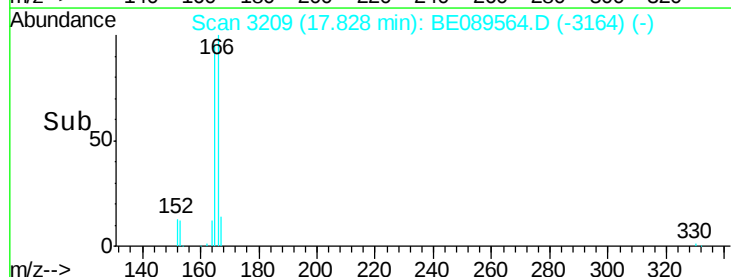
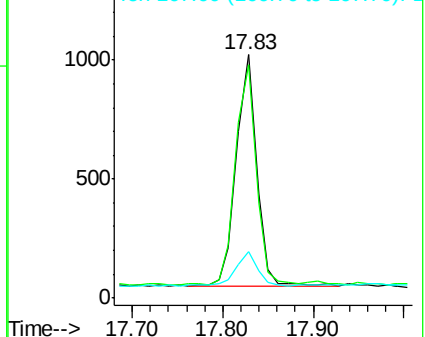
167 16.8 10.6 16.0#

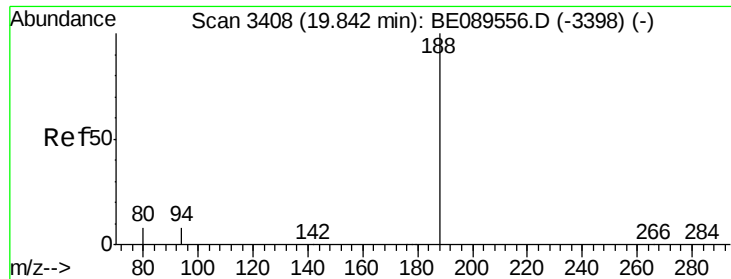


Abundance Ion 166.00 (165.70 to 166.70): E

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# 3408

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

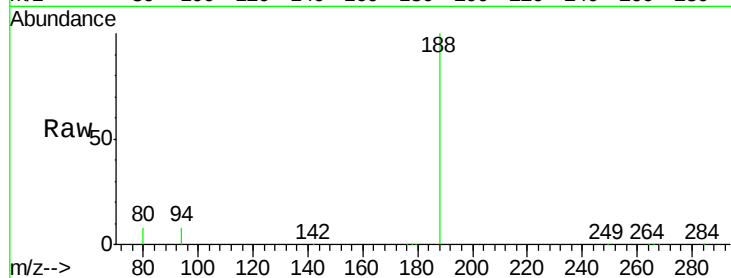
Tgt Ion:188 Resp: 180393

Ion Ratio Lower Upper

188 100

94 8.1 6.2 9.2

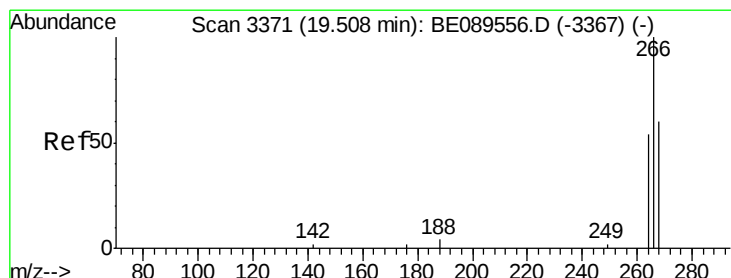
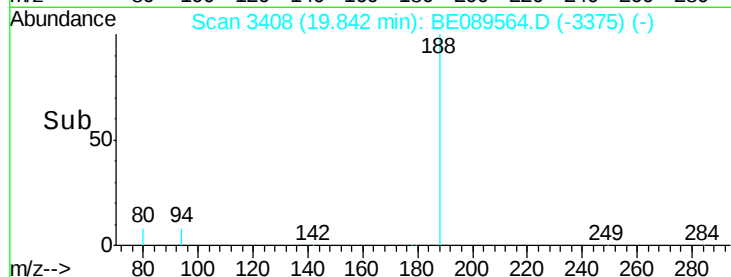
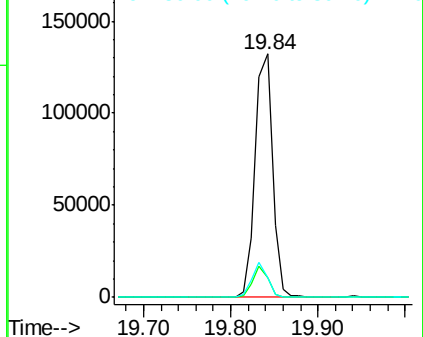
80 8.1 6.4 9.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Pentachlorophenol

Concen: 0.34 ng

RT: 19.52 min Scan# 3372

Delta R.T. 0.01 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

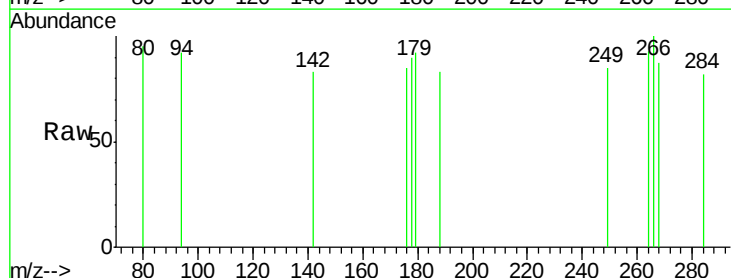
Tgt Ion:266 Resp: 34

Ion Ratio Lower Upper

266 100

268 86.7 57.9 86.9

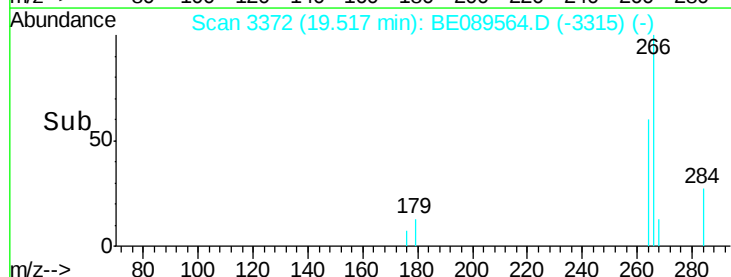
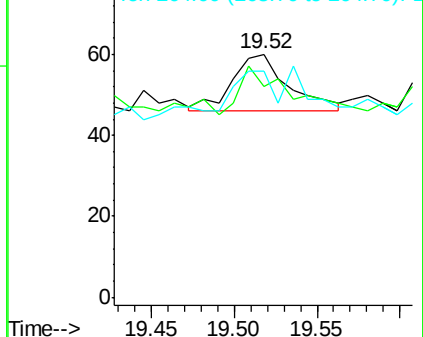
264 93.3 54.6 81.8#

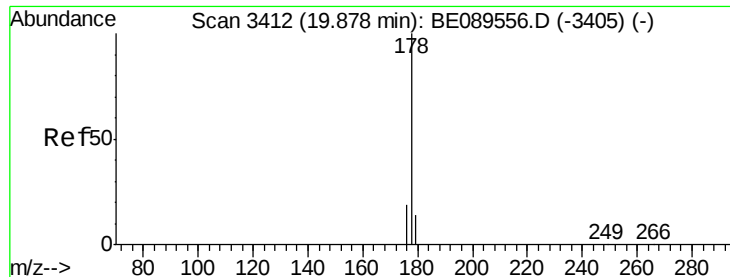


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.06 ng

RT: 19.88 min Scan# 3412

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

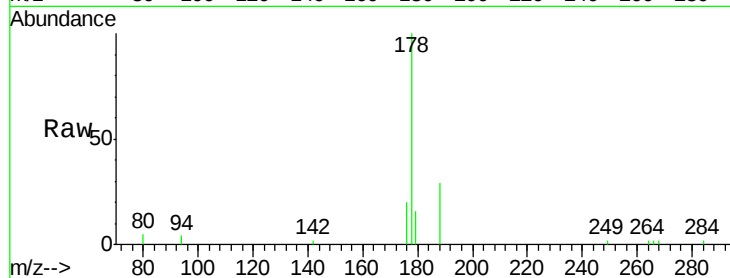
Tgt Ion:178 Resp: 2832

Ion Ratio Lower Upper

178 100

176 17.8 15.1 22.7

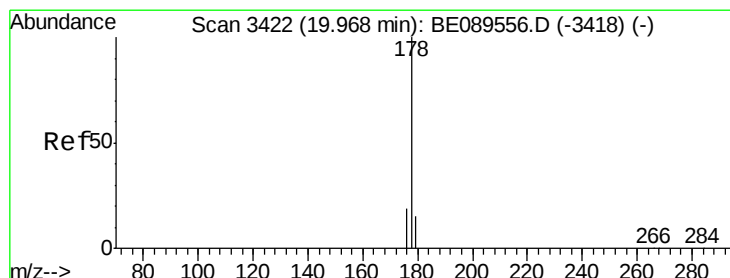
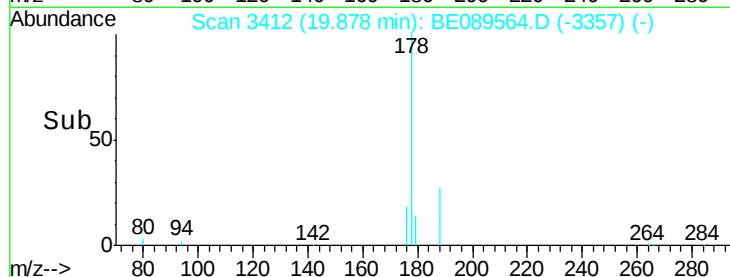
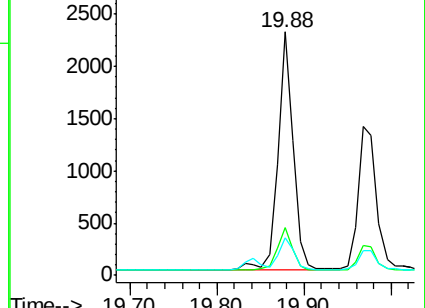
179 13.4 12.1 18.1



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



#14

Anthracene

Concen: 0.06 ng

RT: 19.97 min Scan# 3422

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

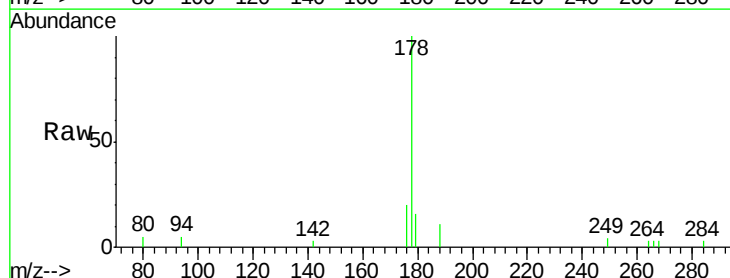
Tgt Ion:178 Resp: 2058

Ion Ratio Lower Upper

178 100

176 16.9 14.6 21.8

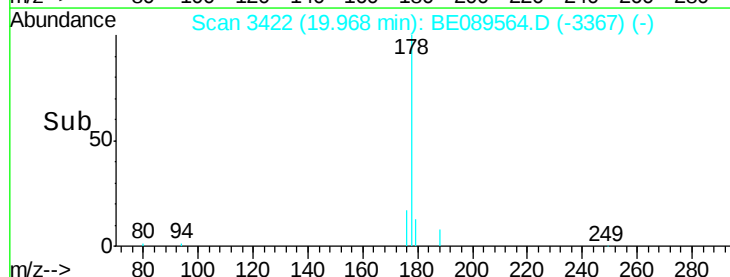
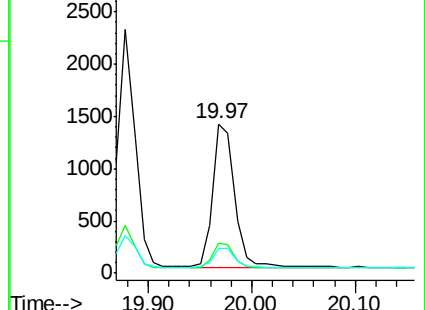
179 13.8 12.7 19.1

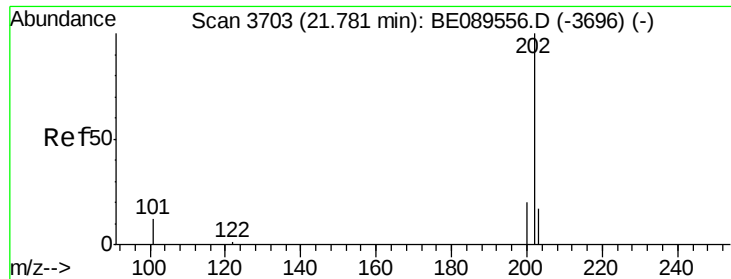


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

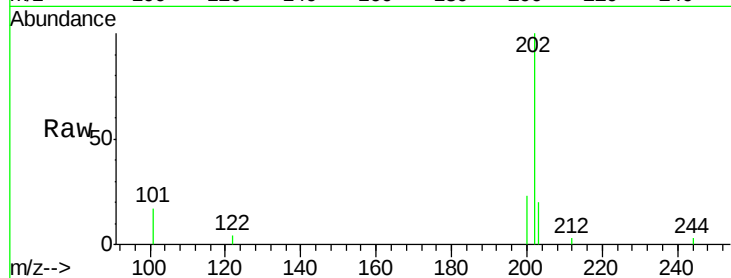




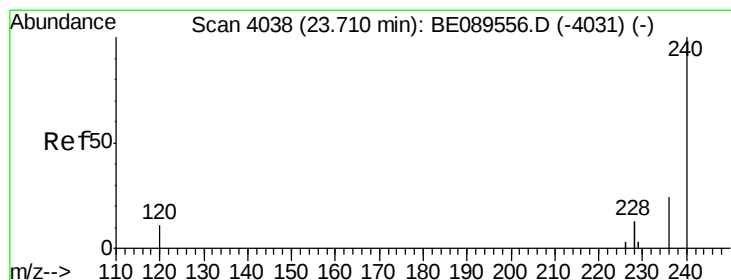
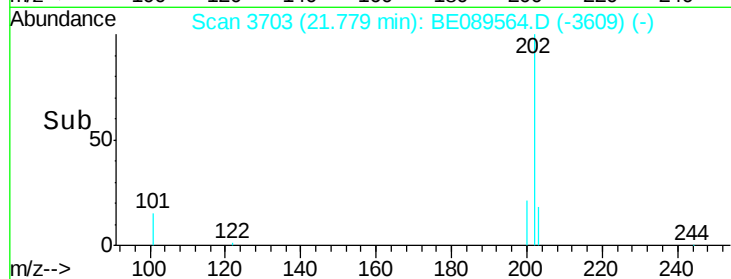
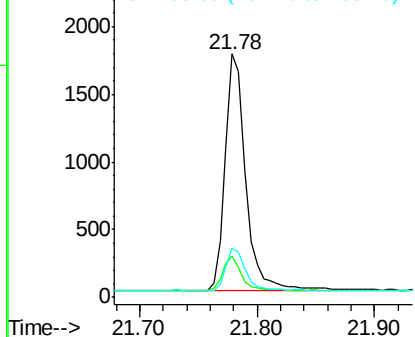
#15
 Fluoranthene
 Concen: 0.05 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089564.D
 Acq: 11 Feb 2015 00:57

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

Tgt Ion: 202 Resp: 2158
 Ion Ratio Lower Upper
 202 100
 101 13.4 10.4 15.6
 203 17.1 13.6 20.4

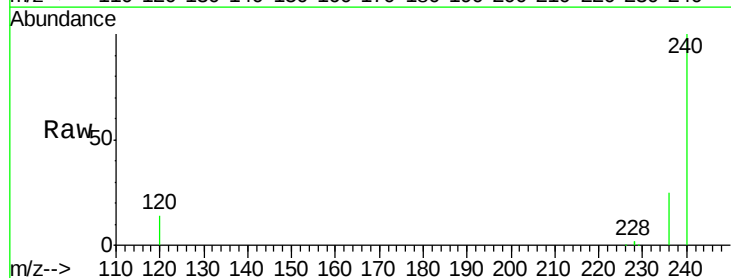


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

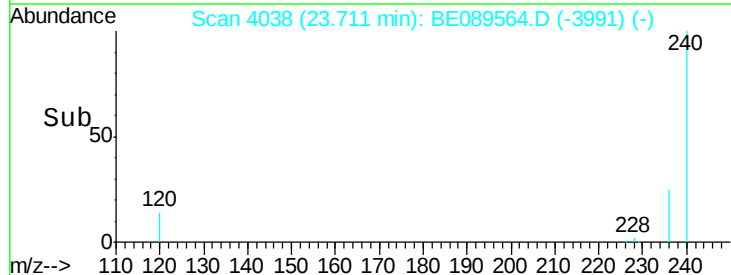
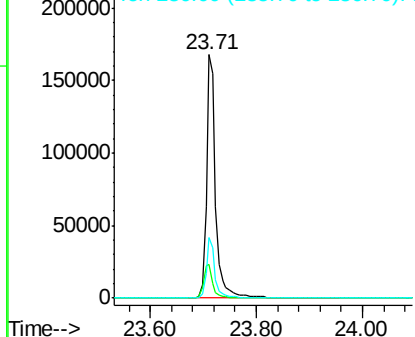


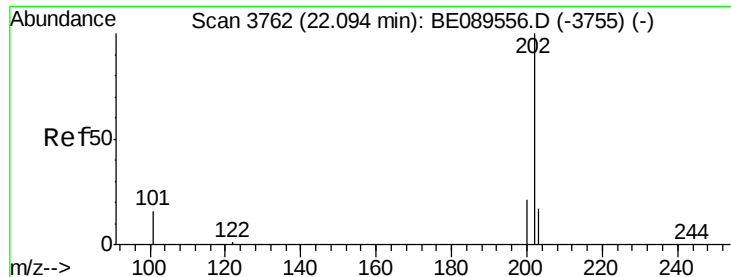
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4038
 Delta R.T. 0.00 min
 Lab File: BE089564.D
 Acq: 11 Feb 2015 00:57

Tgt Ion: 240 Resp: 203528
 Ion Ratio Lower Upper
 240 100
 120 13.8 9.3 13.9
 236 25.0 19.3 28.9



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

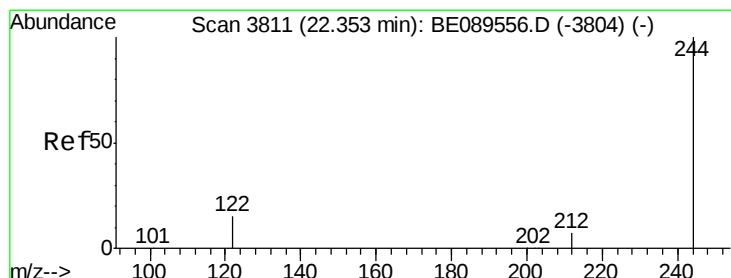
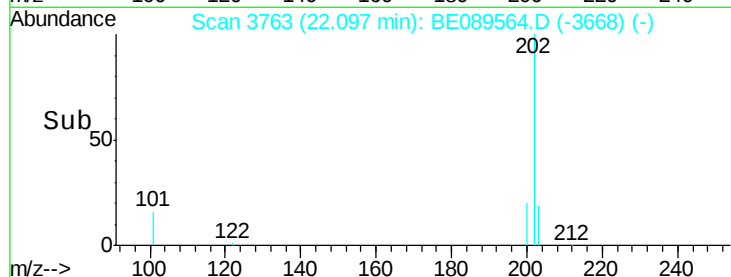
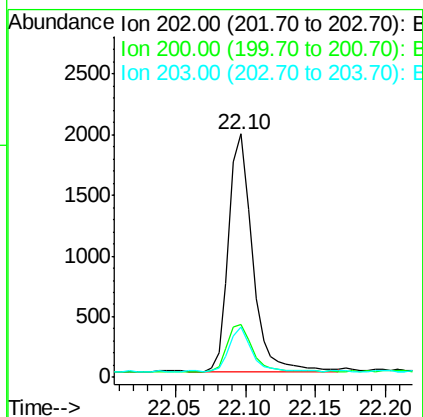
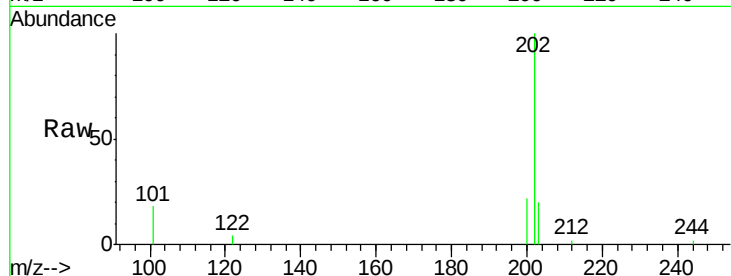




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. 0.00 min
 Lab File: BE089564.D
 Acq: 11 Feb 2015 00:57

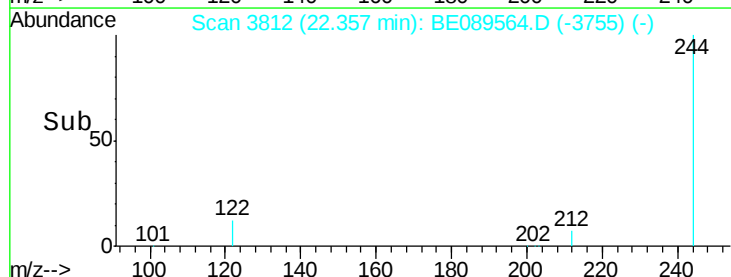
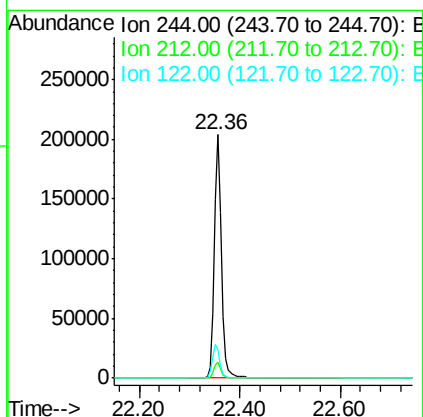
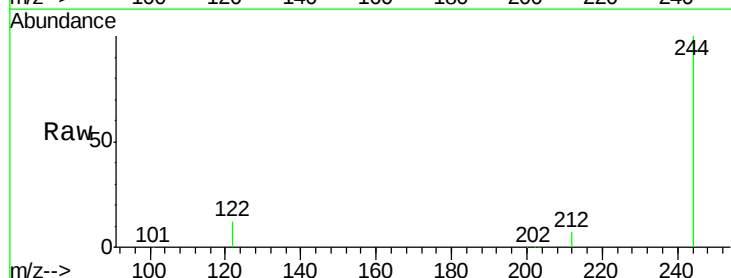
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-W

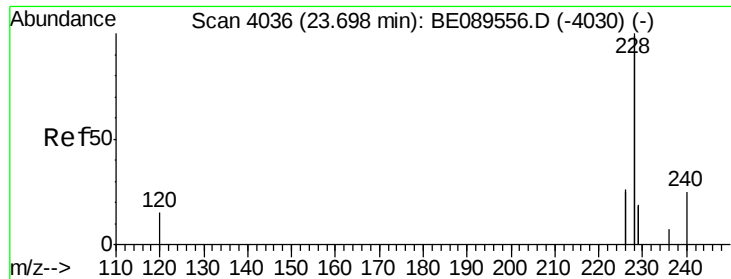
Tgt Ion: 202 Resp: 2308
 Ion Ratio Lower Upper
 202 100
 200 22.1 16.6 24.8
 203 17.2 14.2 21.2



#18
 Terphenyl-d14
 Concen: 8.14 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089564.D
 Acq: 11 Feb 2015 00:57

Tgt Ion: 244 Resp: 206481
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.9 8.9
 122 11.9 12.2 18.2#





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.70 min Scan# 4037

Delta R.T. 0.01 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

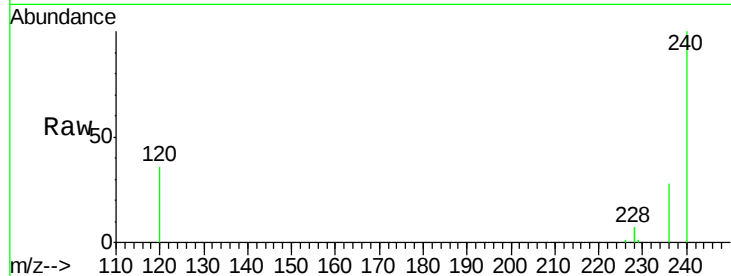
Tgt Ion:228 Resp: 10521

Ion Ratio Lower Upper

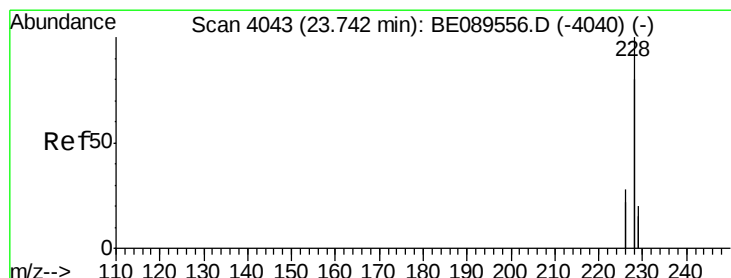
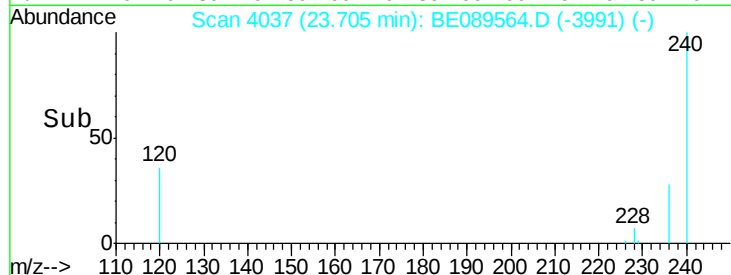
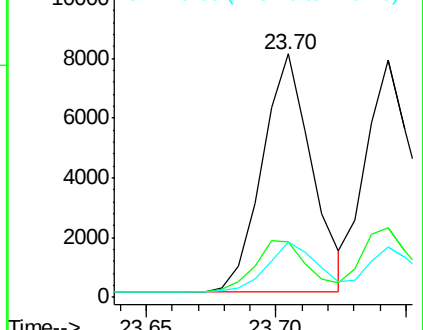
228 100

226 22.6 21.0 31.4

229 22.6 15.2 22.8



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



#20

Chrysene

Concen: 0.07 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

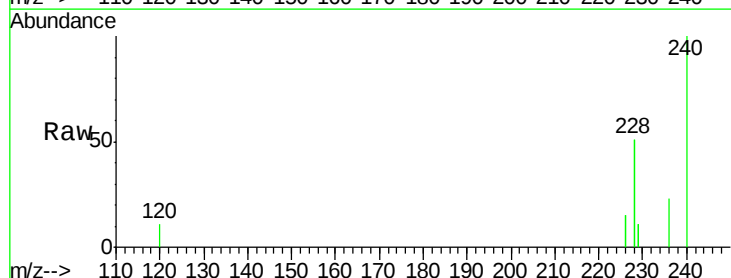
Tgt Ion:228 Resp: 12870

Ion Ratio Lower Upper

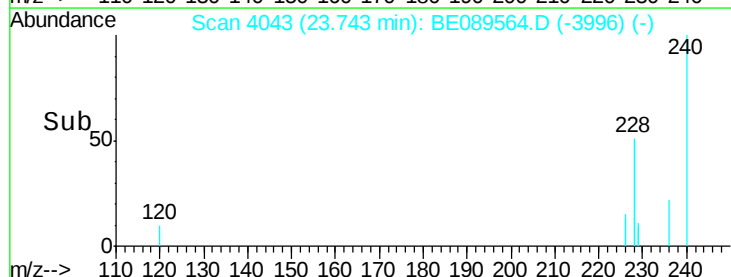
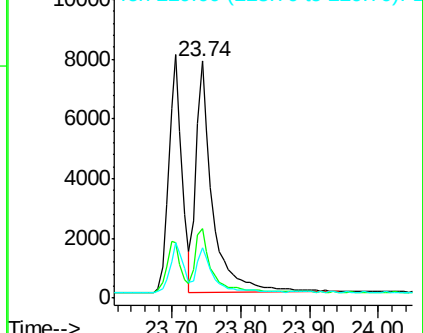
228 100

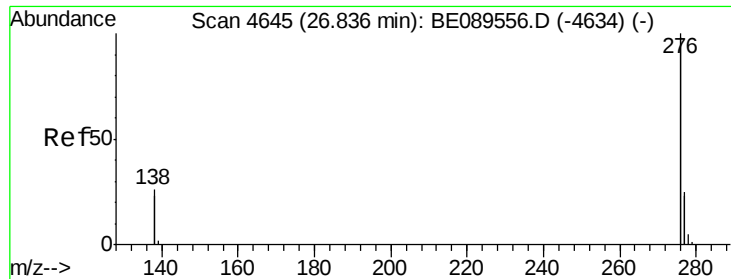
226 29.2 22.6 34.0

229 21.3 15.6 23.4



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

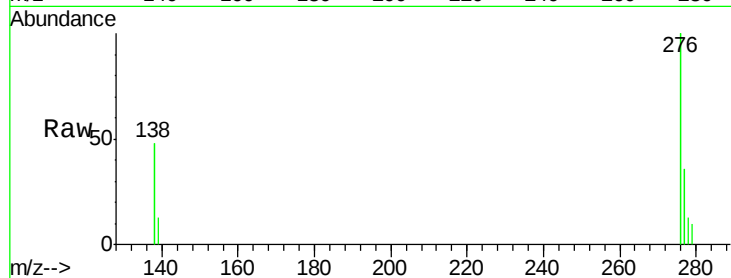
Tgt Ion:276 Resp: 5025

Ion Ratio Lower Upper

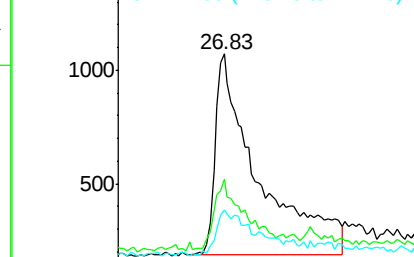
276 100

138 24.0 20.2 30.4

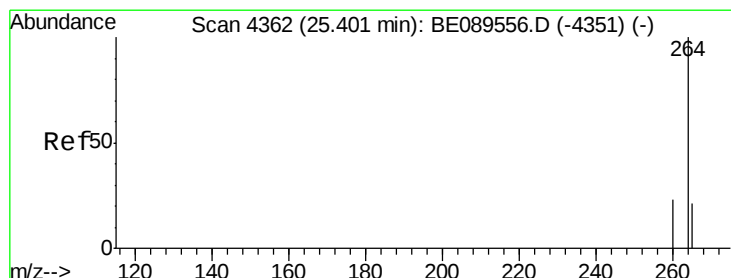
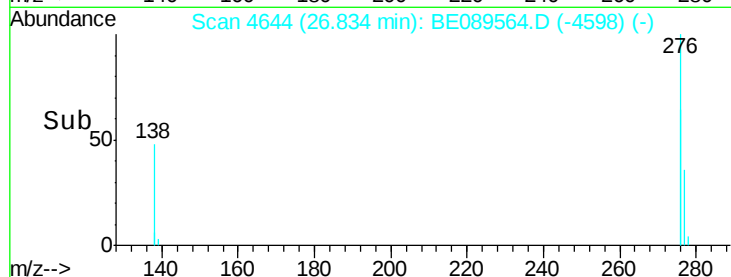
277 15.8 19.6 29.4#



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



Time-->



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.40 min Scan# 4362

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

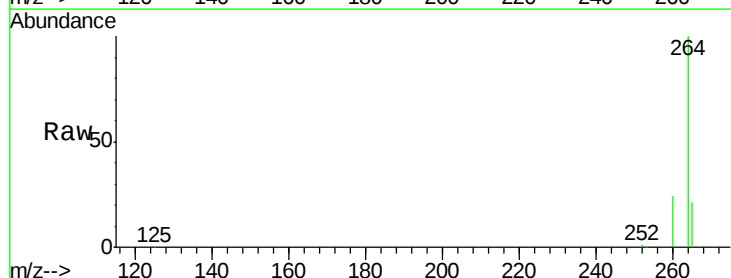
Tgt Ion:264 Resp: 198216

Ion Ratio Lower Upper

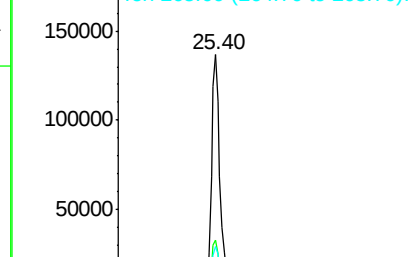
264 100

260 23.7 18.7 28.1

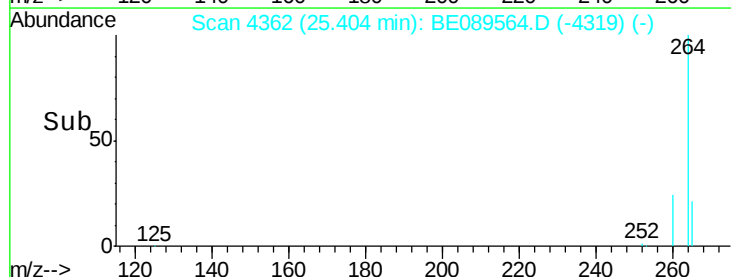
265 21.3 16.8 25.2

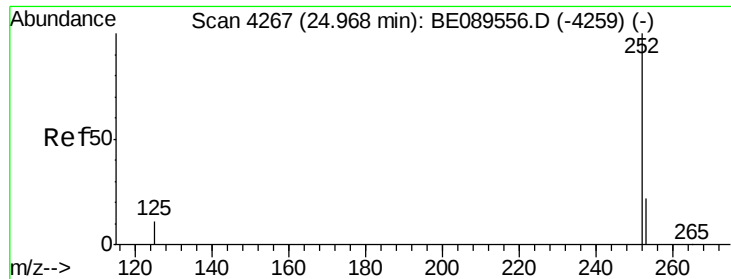


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





#23

Benzo(b)fluoranthene

Concen: 0.25 ng

RT: 24.97 min Scan# 4266

Delta R.T. -0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

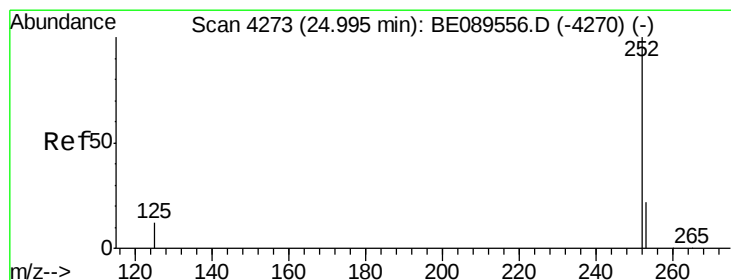
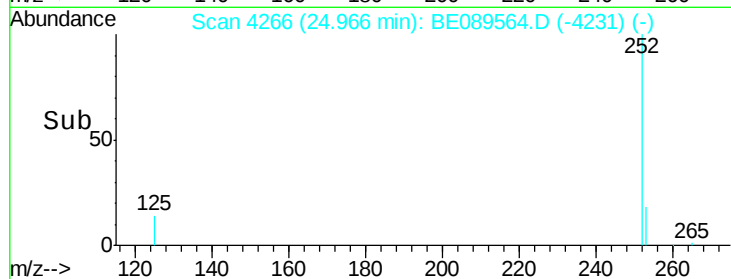
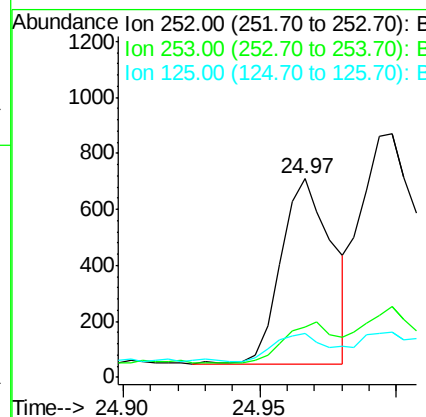
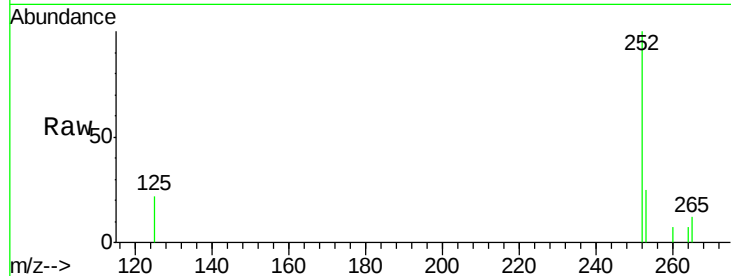
BNA_E

ClientSampleId :

MDL-03-W

Tgt Ion:252 Resp: 861

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.8	26.8
125	22.3	9.3	13.9#



#24

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 25.00 min Scan# 4273

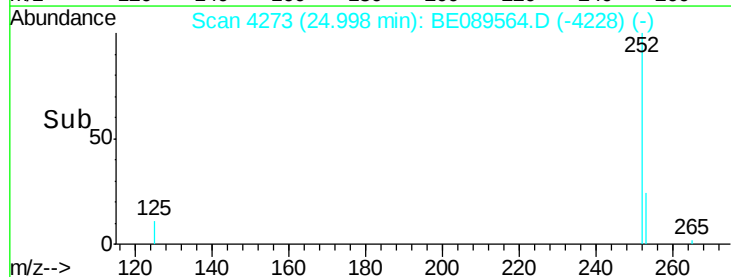
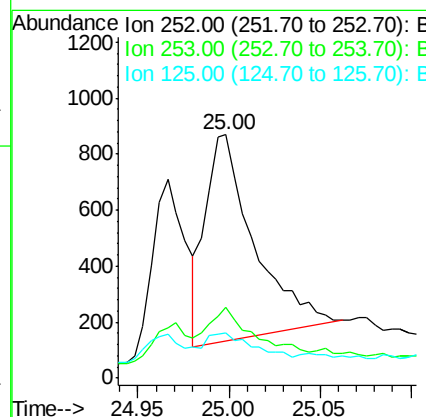
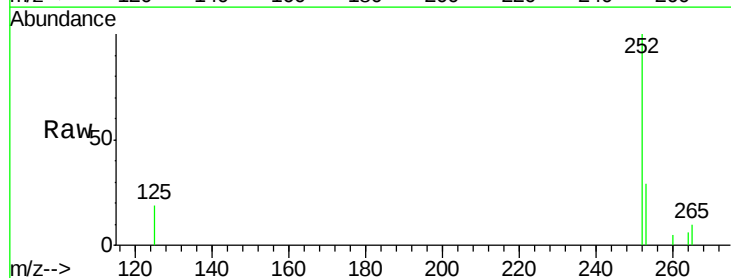
Delta R.T. 0.00 min

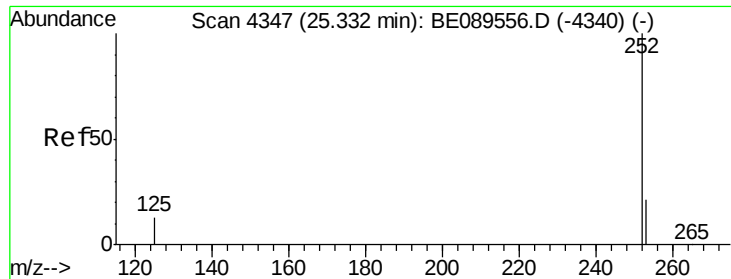
Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Tgt Ion:252 Resp: 1367

Ion	Ratio	Lower	Upper
252	100		
253	29.2	17.5	26.3#
125	18.6	9.6	14.4#





#25

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.34 min Scan# 4347

Delta R.T. 0.00 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W

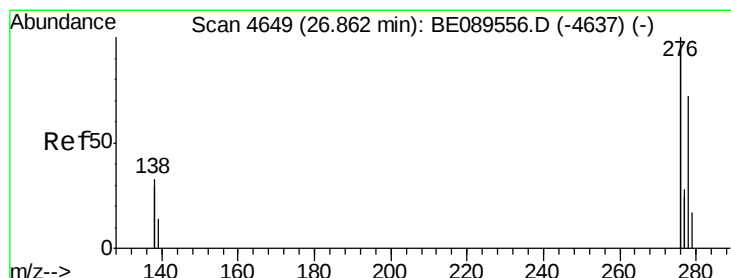
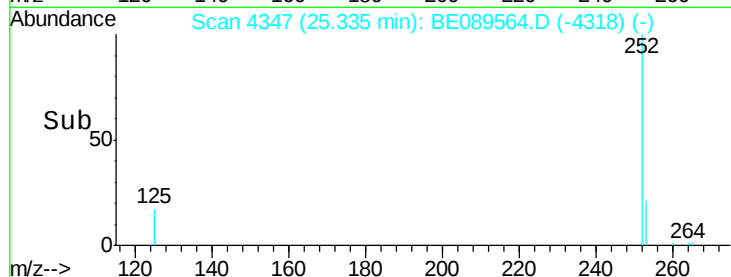
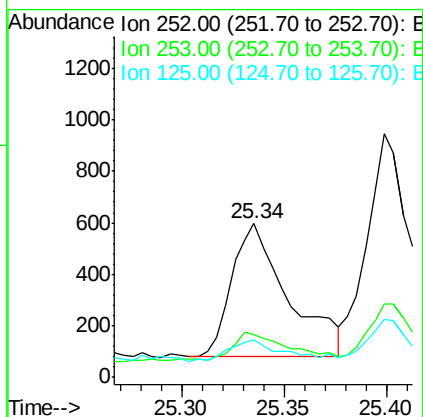
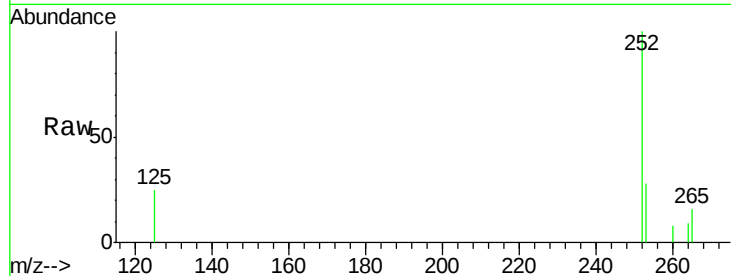
Tgt Ion: 252 Resp: 981

Ion Ratio Lower Upper

252 100

253 28.2 17.4 26.0#

125 24.7 11.1 16.7#



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 26.87 min Scan# 4649

Delta R.T. 0.01 min

Lab File: BE089564.D

Acq: 11 Feb 2015 00:57

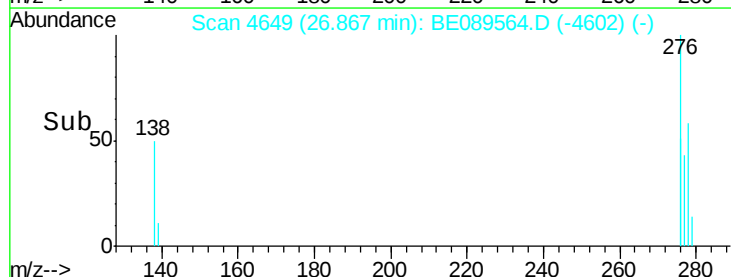
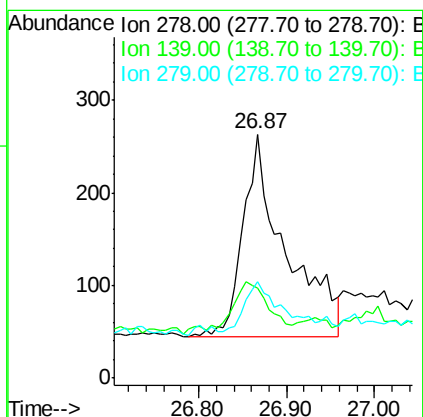
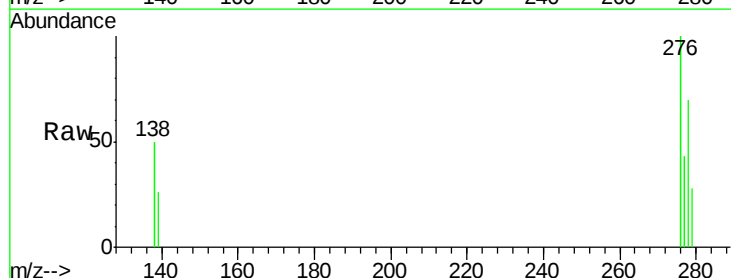
Tgt Ion: 278 Resp: 742

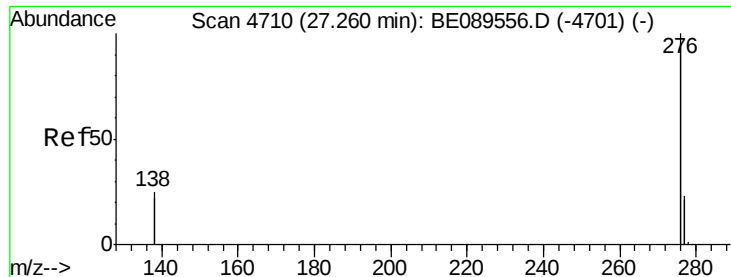
Ion Ratio Lower Upper

278 100

139 36.9 16.1 24.1#

279 39.5 19.6 29.4#





#27

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 27.26 min Scan# 4710

Delta R.T. 0.01 min

Lab File: BE089564.D

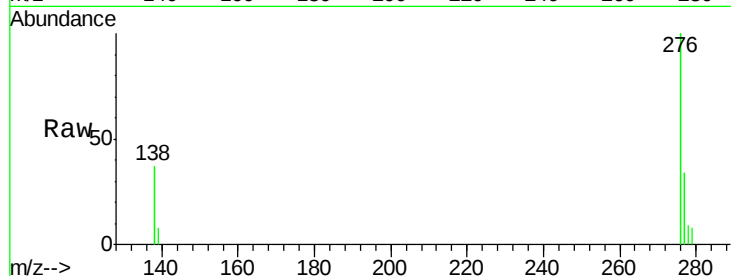
Acq: 11 Feb 2015 00:57

Instrument :

BNA_E

ClientSampleId :

MDL-03-W



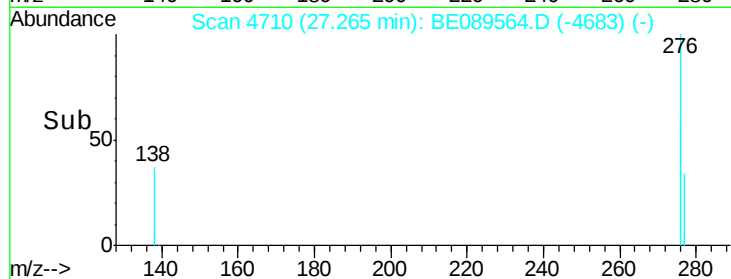
Tgt Ion: 276 Resp: 4983

Ion Ratio Lower Upper

276 100

277 33.7 18.7 28.1#

138 36.6 19.7 29.5#



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

