

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089643.D
 Acq On : 20 Feb 2015 1:48
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Quant Time: Feb 20 02:34:57 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

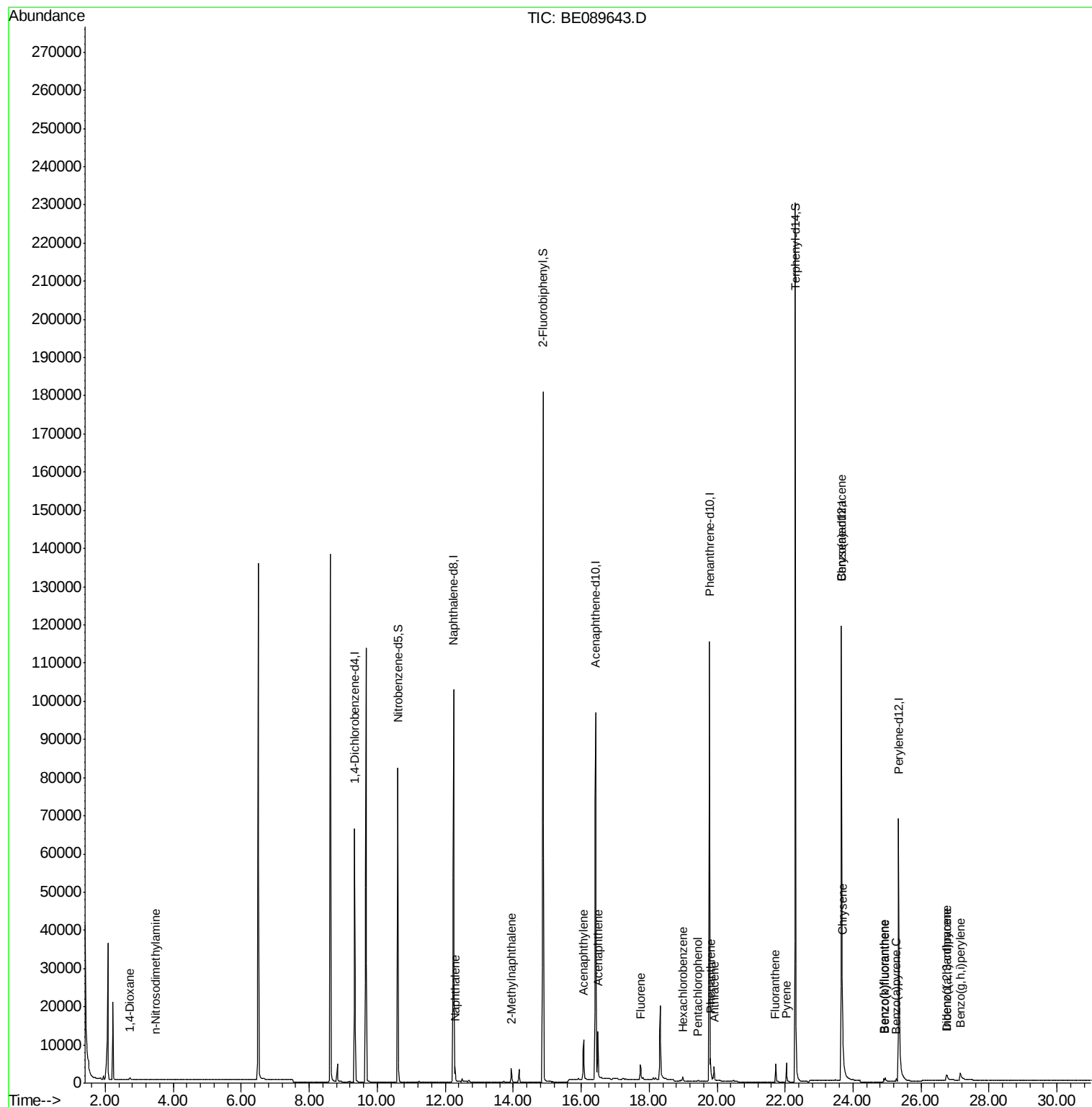
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	30569	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	121870	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	61361	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	119545	5.00	ng	0.00
19) Chrysene-d12	23.66	240	109826	5.00	ng	0.00
25) Perylene-d12	25.34	264	87233	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	57995	10.95	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	166599	10.14	ng	0.00
21) Terphenyl-d14	22.30	244	201629	12.77	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.72	88	594	0.16	ng	# 83
3) n-Nitrosodimethylamine	3.48	42	430	0.12	ng	# 95
6) Naphthalene	12.29	128	4752	0.17	ng	97
7) 2-Methylnaphthalene	13.95	142	2633	0.16	ng	98
10) Acenaphthylene	16.07	152	14642	0.15	ng	100
11) Acenaphthene	16.49	154	2646	0.16	ng	96
12) Fluorene	17.74	166	2981	0.16	ng	98
14) Hexachlorobenzene	19.00	284	934	0.18	ng	97
15) Pentachlorophenol	19.44	266	55	0.05	ng	# 78
16) Phenanthrene	19.81	178	4998	0.17	ng	98
17) Anthracene	19.91	178	3735	0.15	ng	99
18) Fluoranthene	21.72	202	3961	0.14	ng	99
20) Pyrene	22.04	202	4290	0.16	ng	99
22) Benzo(a)anthracene	23.65	228	12269	0.13	ng	96
23) Chrysene	23.69	228	21714	0.20	ng	98
24) Indeno(1,2,3-cd)pyrene	26.74	276	4123	0.22	ng	95
26) Benzo(b)fluoranthene	24.91	252	944	0.31	ng	# 88
27) Benzo(k)fluoranthene	24.94	252	2807m	0.11	ng	
28) Benzo(a)pyrene	25.27	252	1018	0.29	ng	# 84
29) Dibenzo(a,h)anthracene	26.77	278	622	0.26	ng	# 73
30) Benzo(g,h,i)perylene	27.16	276	5971	0.21	ng	# 84

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

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
Data File : BE089643.D
Acq On : 20 Feb 2015 1:48
Operator : TP/IZ
Sample : MDL-05-W
Misc : MDL-WATER-0.2/0.4
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Quant Time: Feb 20 02:34:57 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE021815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 18 13:01:39 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

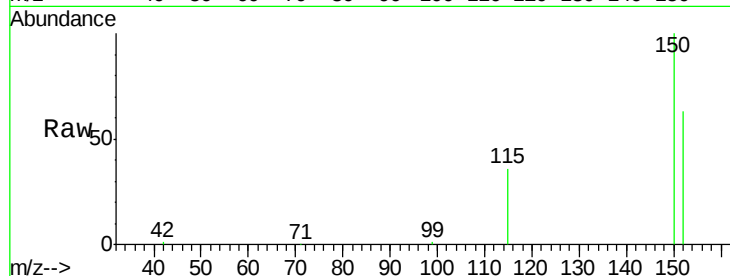
Tot Ion:152 Resp: 30569

Ion Ratio Lower Upper

152 100

150 159.4 122.4 183.6

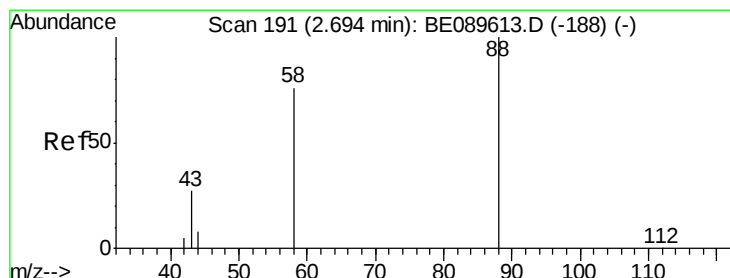
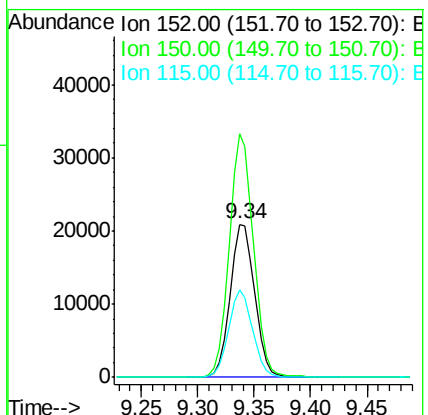
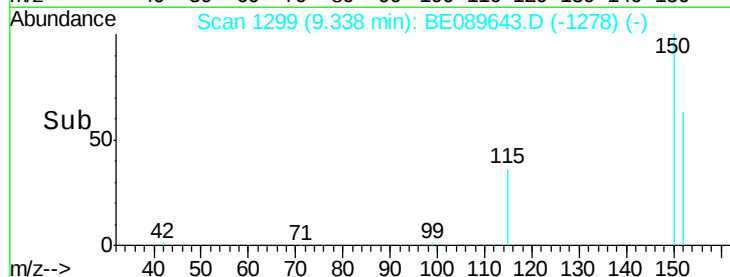
115 57.2 44.2 66.2



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

1,4-Dioxane

Concen: 0.16 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.03 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

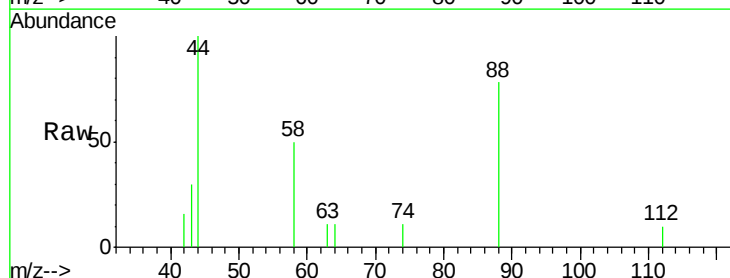
Tgt Ion: 88 Resp: 594

Ion Ratio Lower Upper

88 100

58 71.5 54.6 81.8

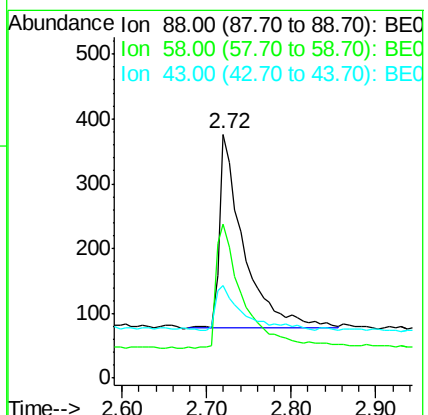
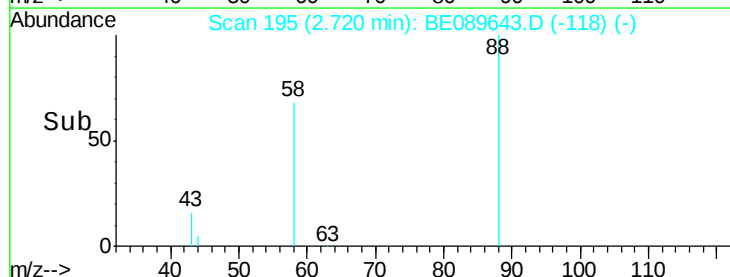
43 0.0 20.6 30.8#

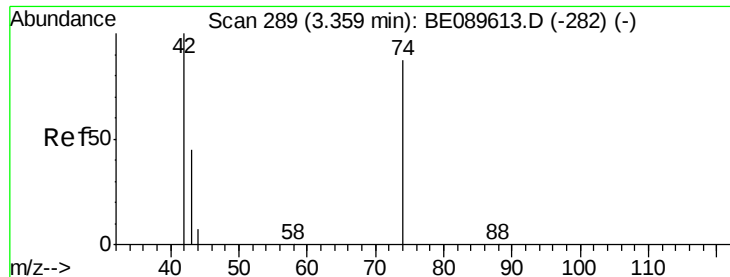


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



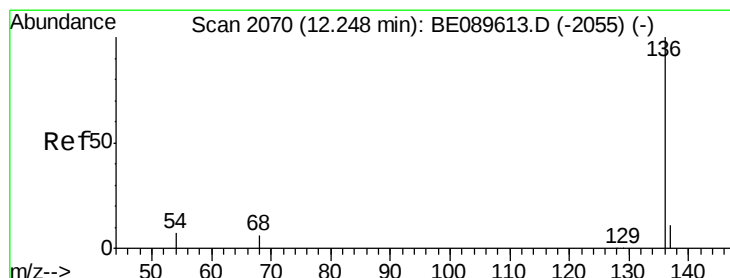
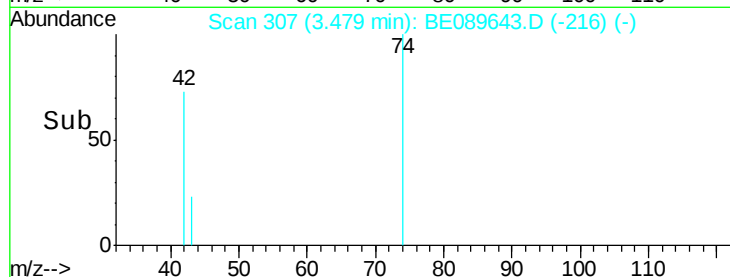
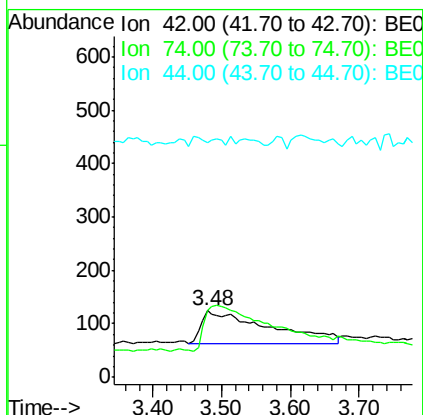
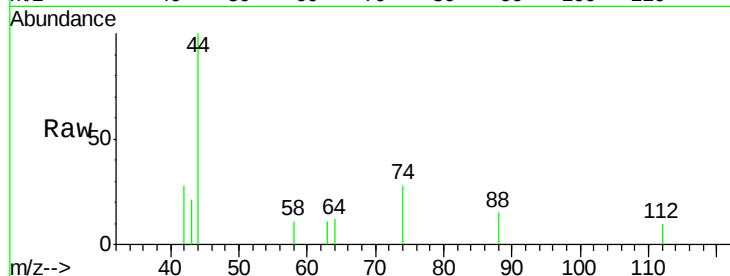


#3

n-Nitrosodimethylamine
 Concen: 0.12 ng
 RT: 3.48 min Scan# 307
 Delta R.T. 0.12 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

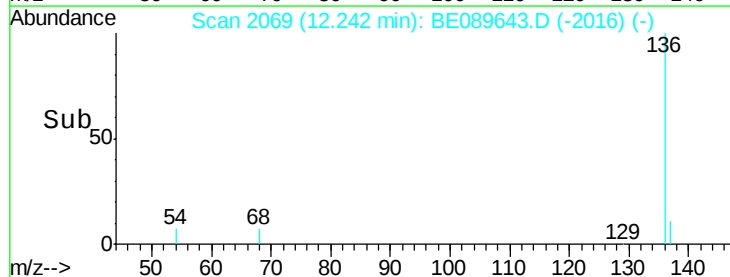
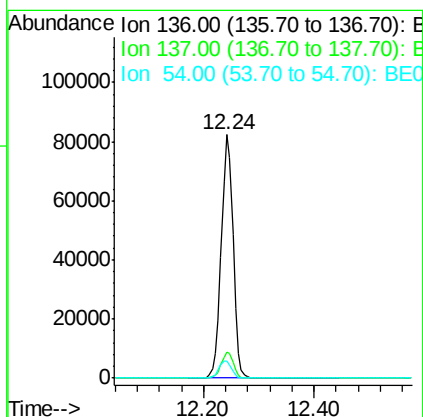
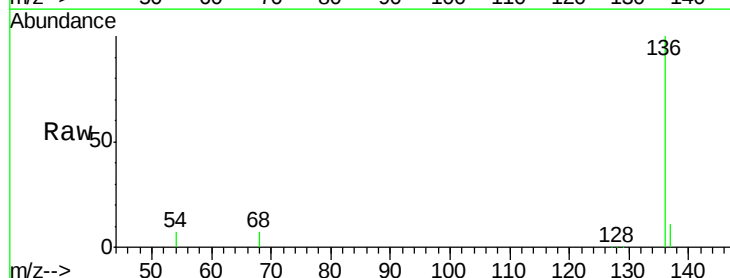
Tot Ion: 42 Resp: 430
 Ion Ratio Lower Upper
 42 100
 74 144.9 121.4 182.0
 44 4.0 4.5 6.7#

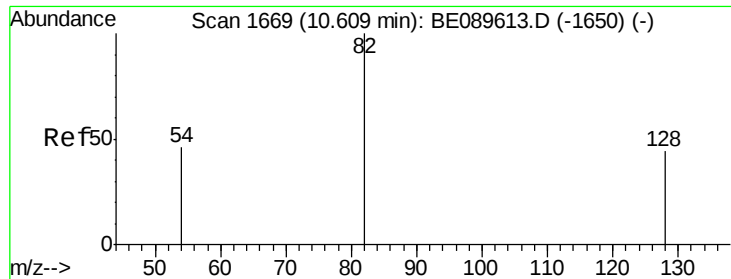


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

Tgt Ion: 136 Resp: 121870
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.9 13.3
 54 7.2 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.95 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

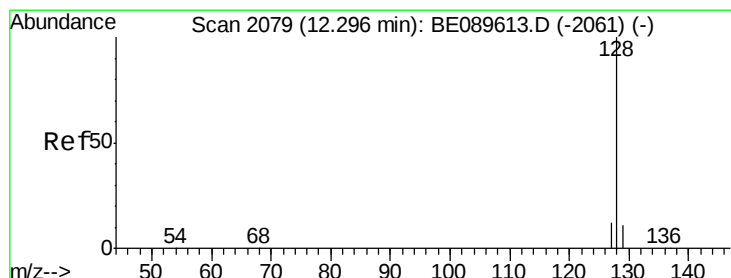
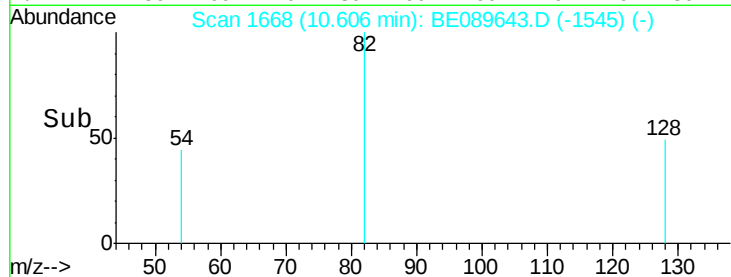
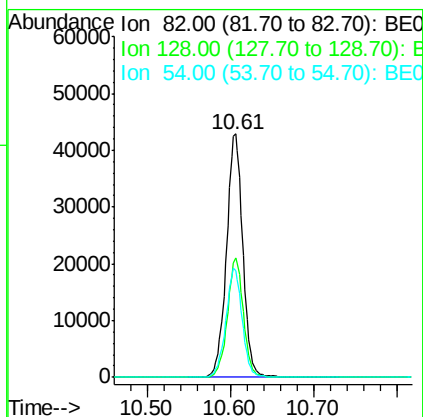
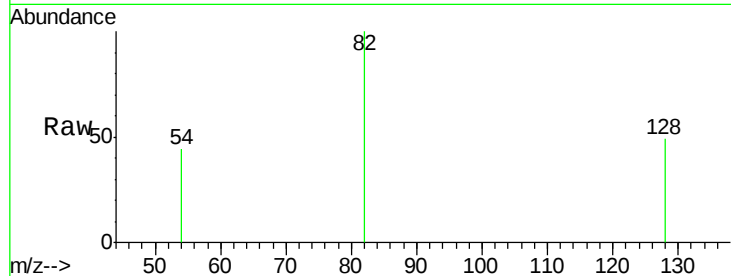
Tot Ion: 82 Resp: 57995

Ion Ratio Lower Upper

82 100

128 48.8 35.5 53.3

54 44.0 37.5 56.3



#6

Naphthalene

Concen: 0.17 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

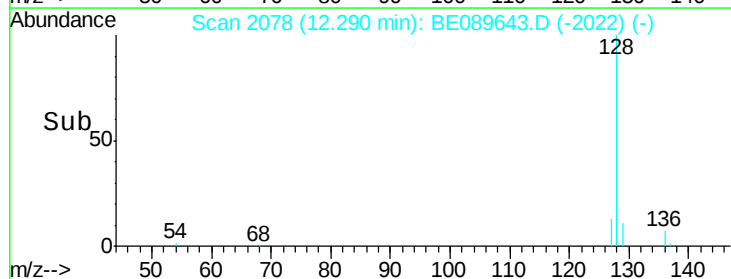
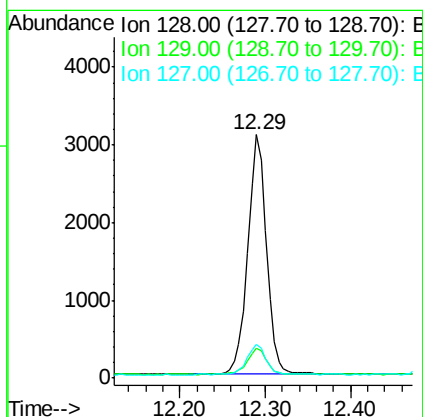
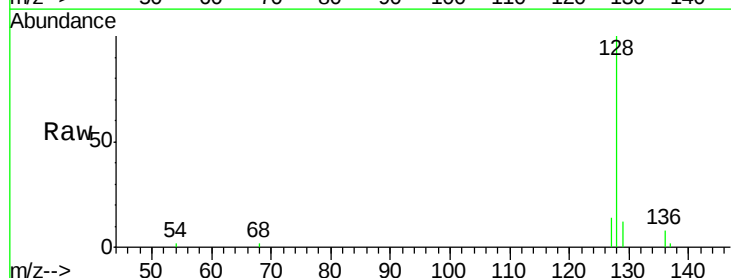
Tgt Ion: 128 Resp: 4752

Ion Ratio Lower Upper

128 100

129 12.0 8.9 13.3

127 14.0 9.8 14.8





#7

2-Methylnaphthalene

Concen: 0.16 ng

RT: 13.95 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

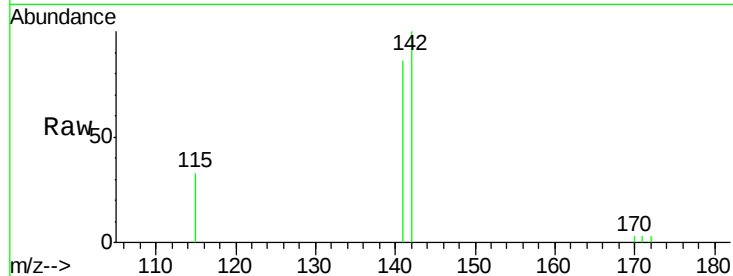
Tot Ion:142 Resp: 2633

Ion Ratio Lower Upper

142 100

141 86.4 68.3 102.5

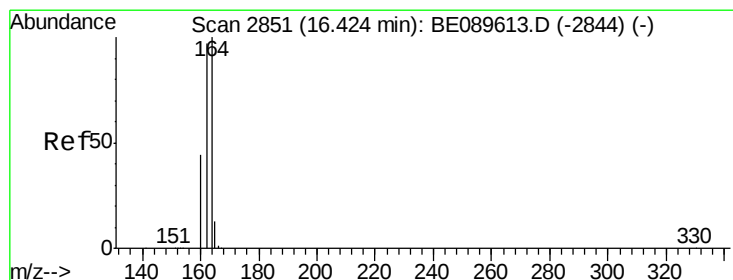
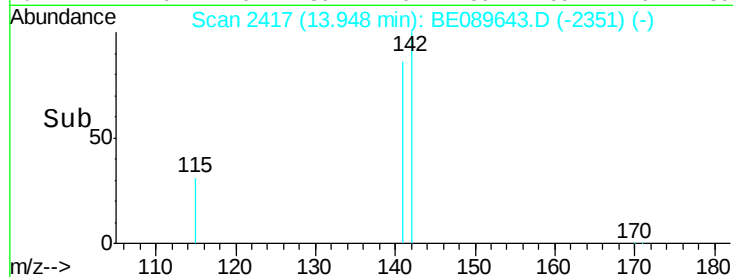
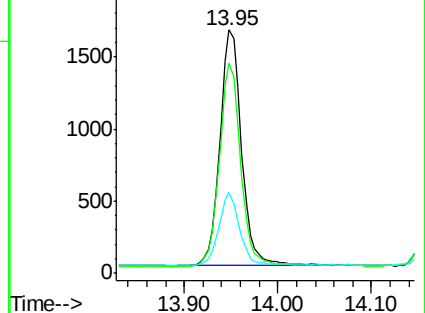
115 33.4 25.1 37.7



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: 16.42 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

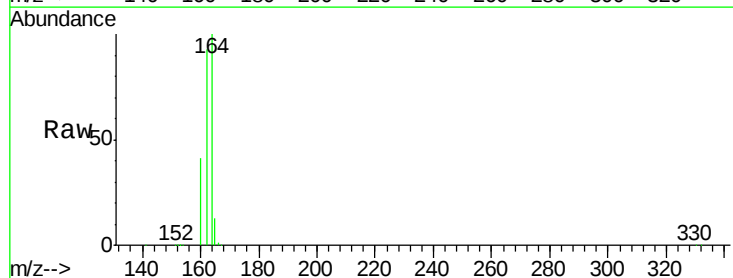
Tgt Ion:164 Resp: 61361

Ion Ratio Lower Upper

164 100

162 93.2 77.5 116.3

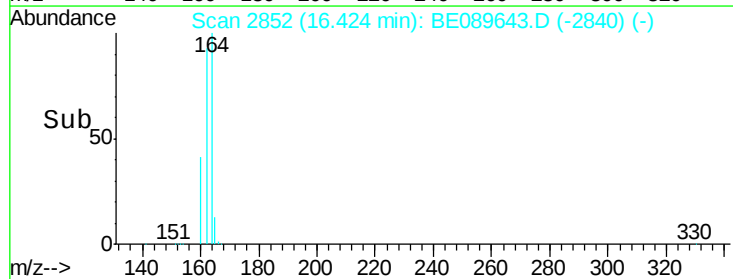
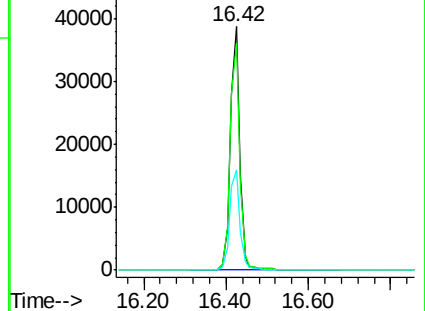
160 41.3 35.5 53.3



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-Fluorobiphenyl

Concen: 10.14 ng

RT: 14.88 min Scan# 2621

Delta R.T. -0.01 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

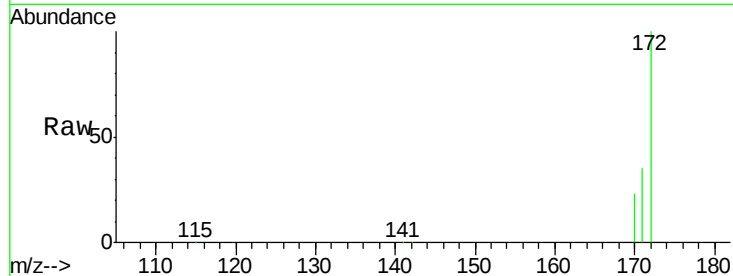
Tot Ion:172 Resp: 166599

Ion Ratio Lower Upper

172 100

171 34.6 26.9 40.3

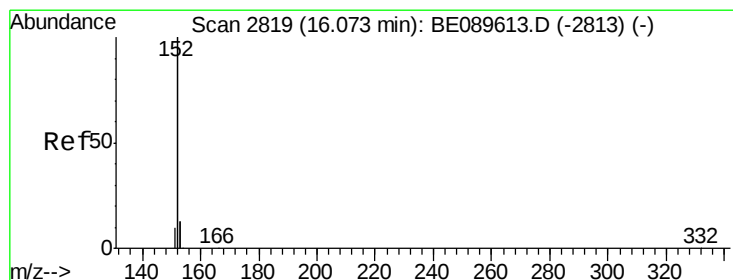
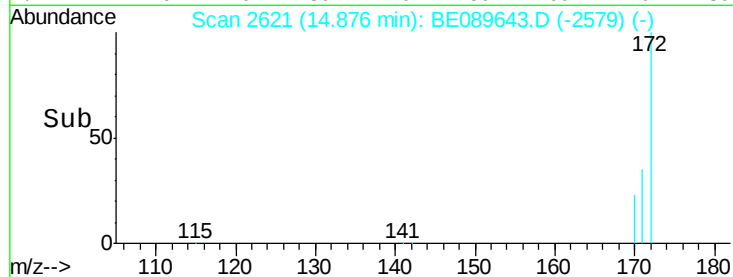
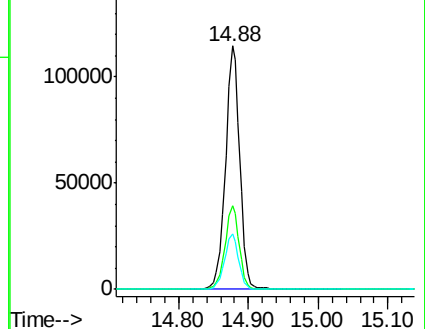
170 22.7 17.4 26.0



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



#10

Acenaphthylene

Concen: 0.15 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

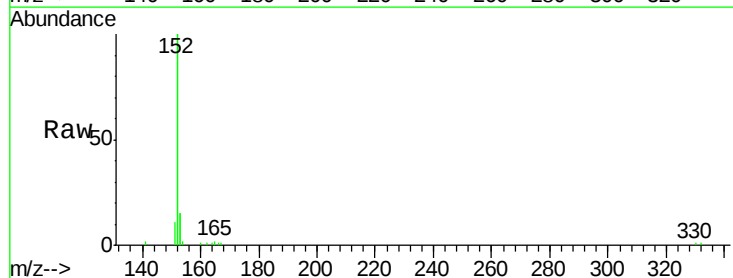
Tgt Ion:152 Resp: 14642

Ion Ratio Lower Upper

152 100

151 5.0 3.9 5.9

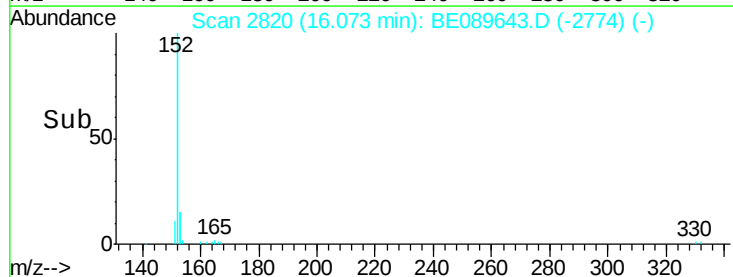
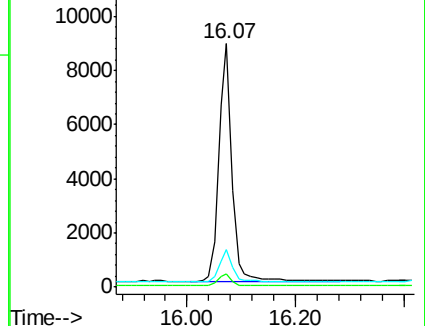
153 13.3 10.5 15.7

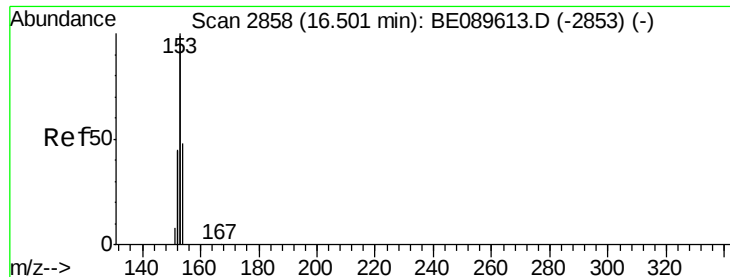


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.16 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

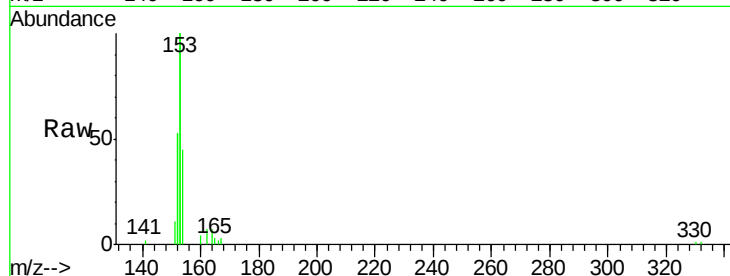
Tot Ion:154 Resp: 2646

Ion Ratio Lower Upper

154 100

153 437.8 348.9 523.3

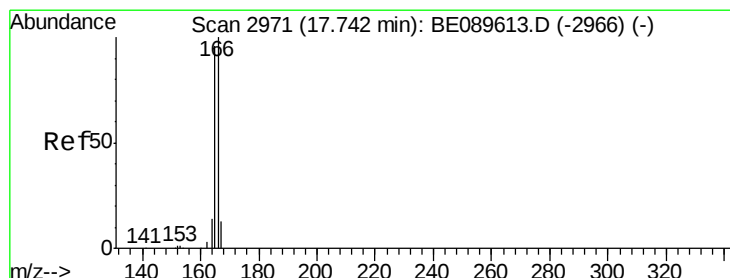
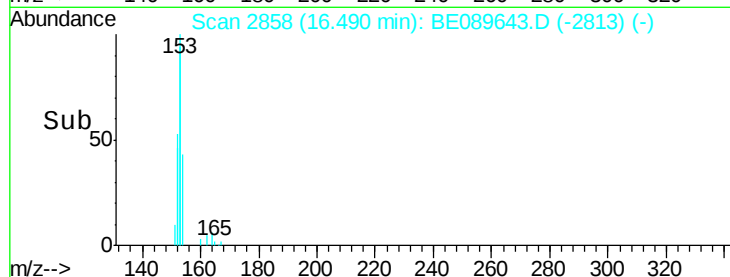
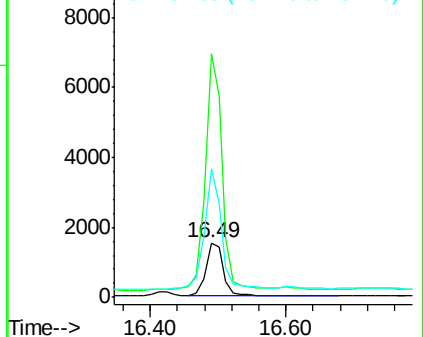
152 224.9 166.6 249.8



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



#12

Fluorene

Concen: 0.16 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

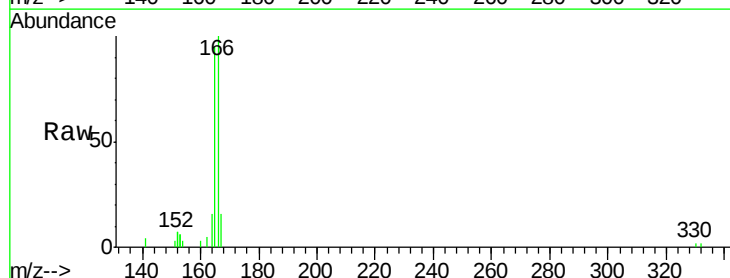
Tgt Ion:166 Resp: 2981

Ion Ratio Lower Upper

166 100

165 92.2 74.7 112.1

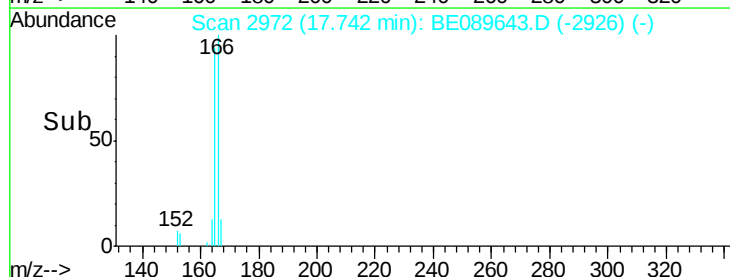
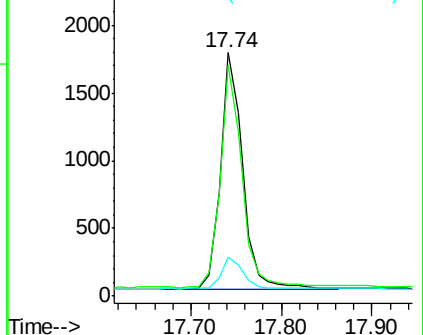
167 14.5 10.5 15.7

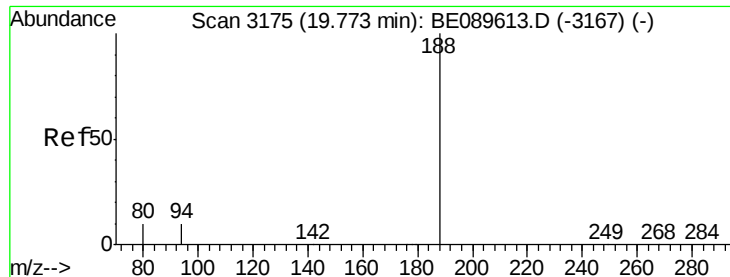


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

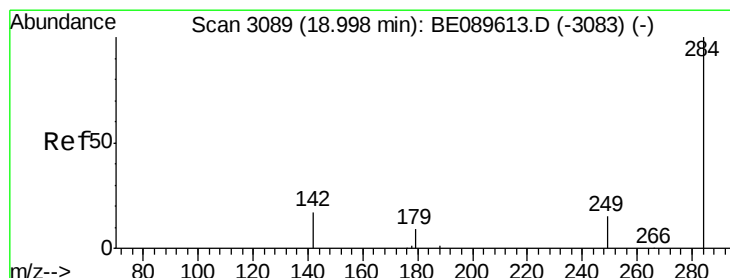
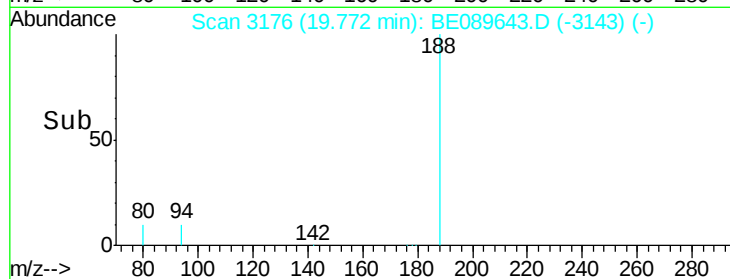
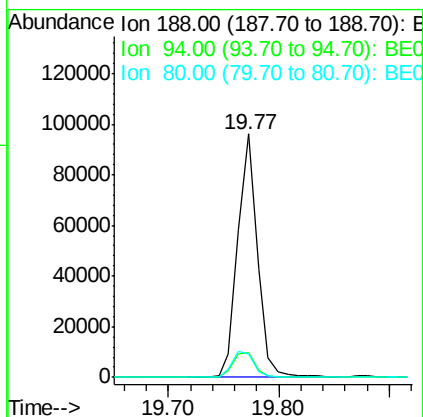
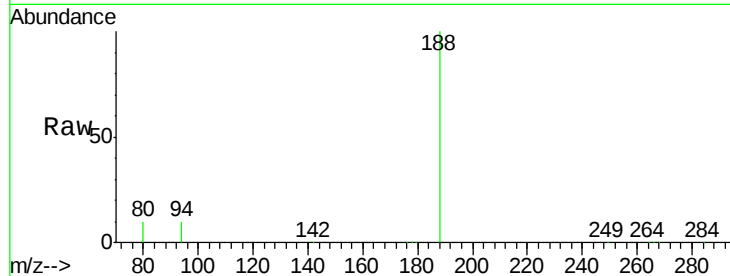




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. -0.00 min
Lab File: BE089643.D
Acq: 20 Feb 2015 1:48

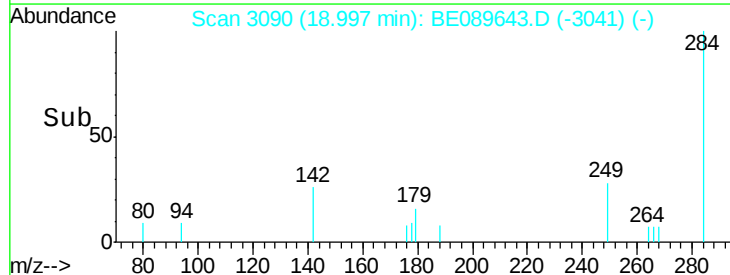
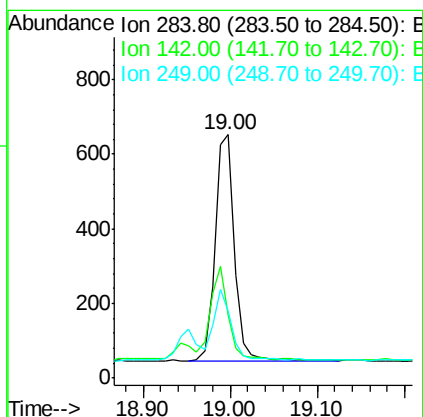
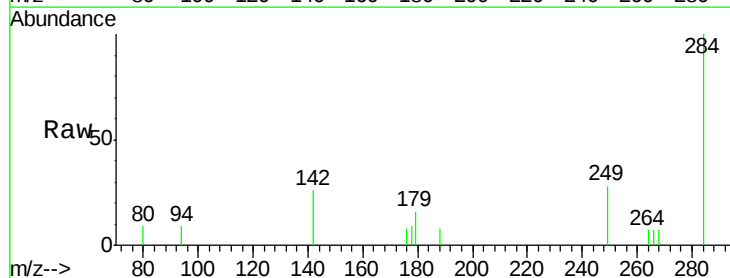
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tot Ion:188 Resp: 119545
Ion Ratio Lower Upper
188 100
94 9.9 8.2 12.4
80 9.7 8.1 12.1



#14
Hexachlorobenzene
Concen: 0.18 ng
RT: 19.00 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089643.D
Acq: 20 Feb 2015 1:48

Tgt Ion:284 Resp: 934
Ion Ratio Lower Upper
284 100
142 37.5 32.3 48.5
249 27.3 22.3 33.5

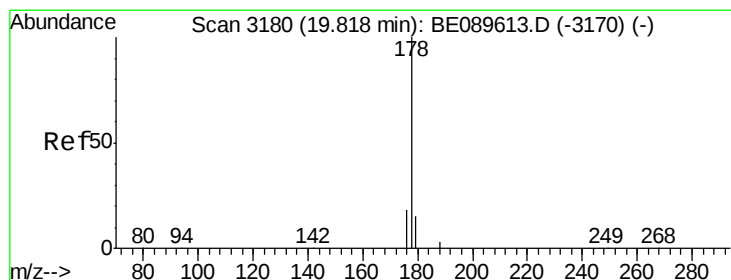
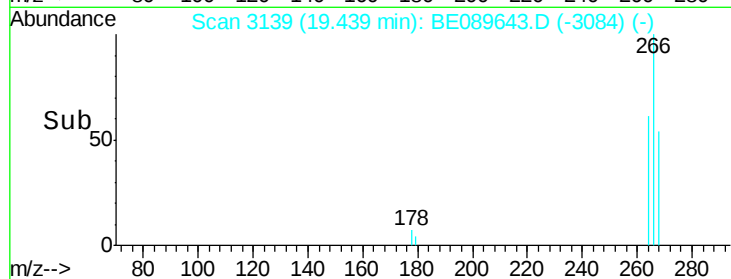
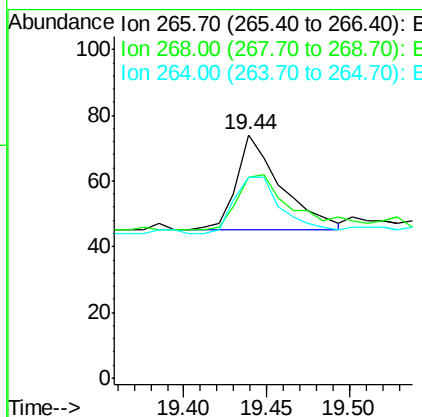
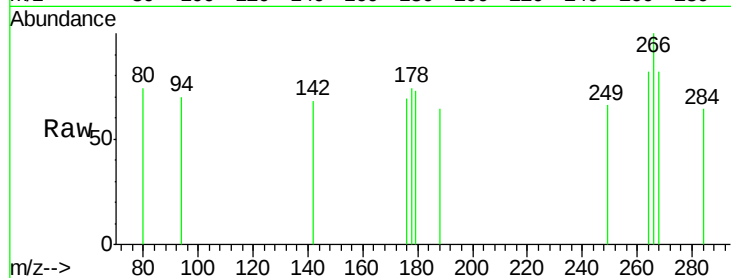




#15
 Pentachlorophenol
 Concen: 0.05 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. -0.00 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

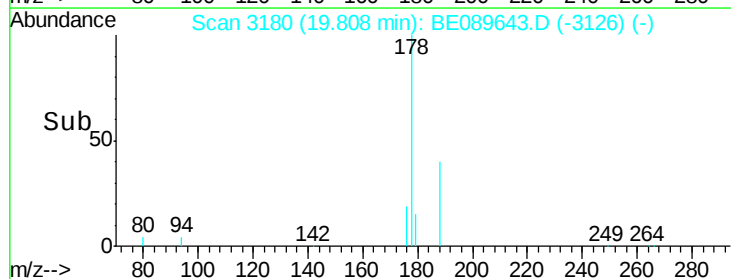
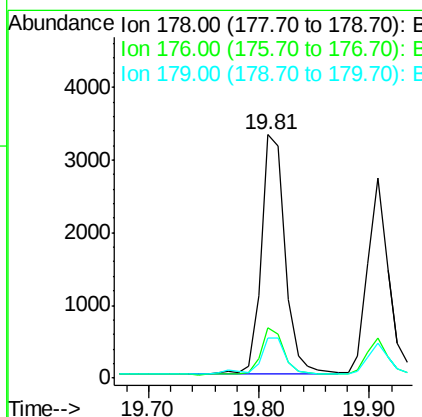
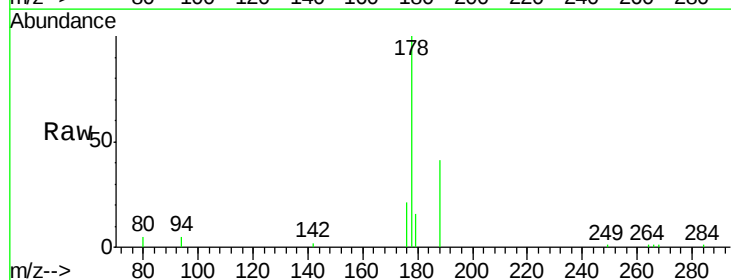
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tot Ion:266 Resp: 55
 Ion Ratio Lower Upper
 266 100
 268 82.4 52.6 79.0#
 264 82.4 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.17 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.01 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

Tgt Ion:178 Resp: 4998
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 16.9 12.3 18.5

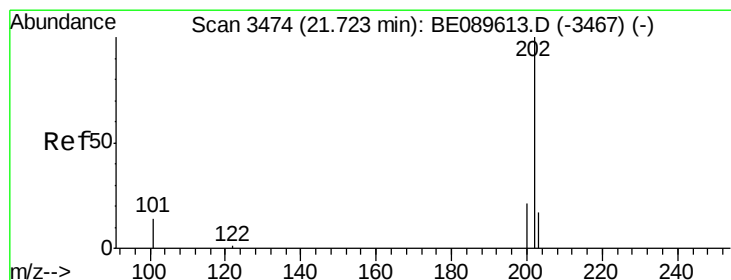
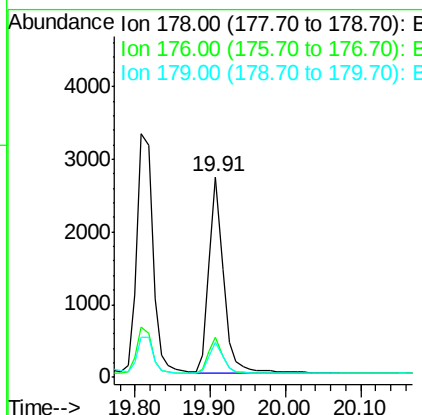
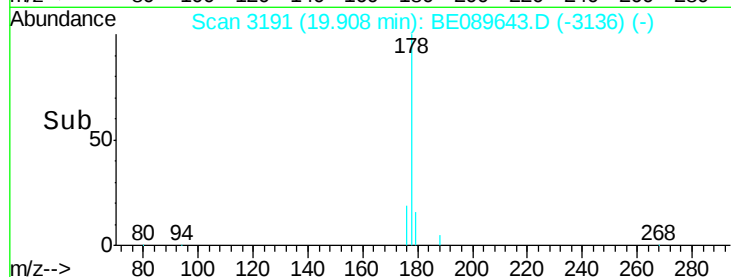
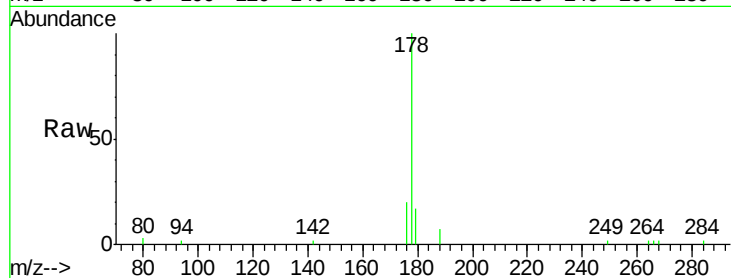




#17
 Anthracene
 Concen: 0.15 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. -0.00 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

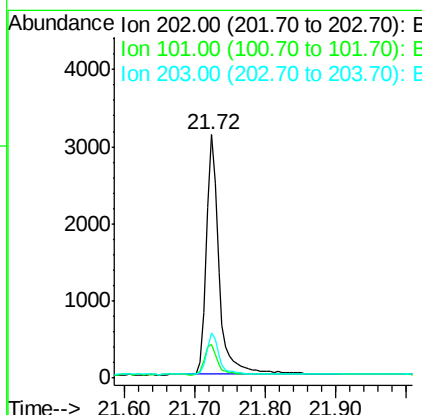
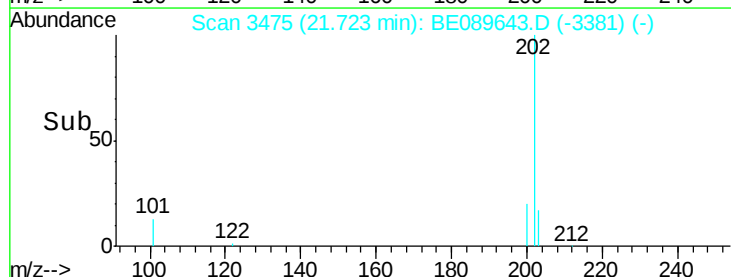
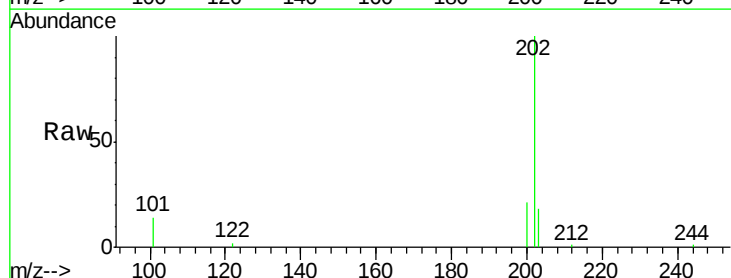
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

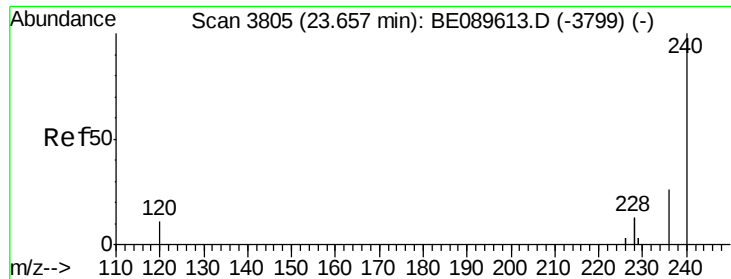
Tot Ion:178 Resp: 3735
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.6 22.0
 179 15.7 12.3 18.5



#18
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.72 min Scan# 3475
 Delta R.T. 0.00 min
 Lab File: BE089643.D
 Acq: 20 Feb 2015 1:48

Tgt Ion:202 Resp: 3961
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.4 15.6
 203 16.9 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

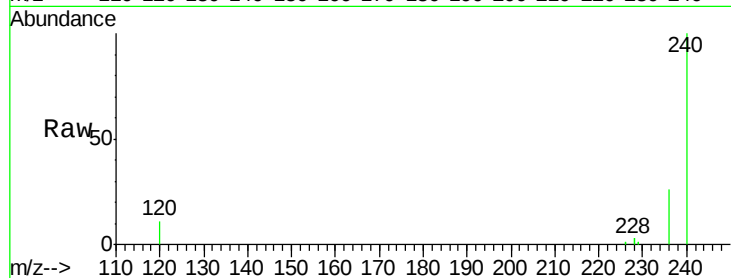
Tot Ion:240 Resp: 109826

Ion Ratio Lower Upper

240 100

120 10.9 9.0 13.4

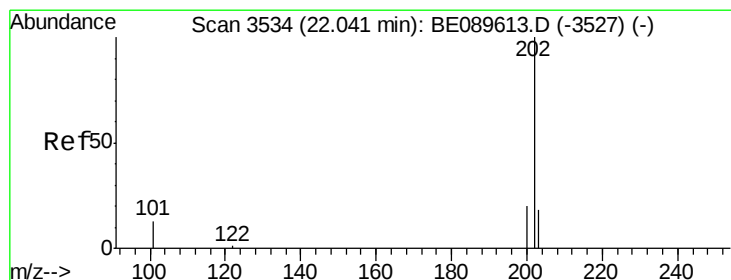
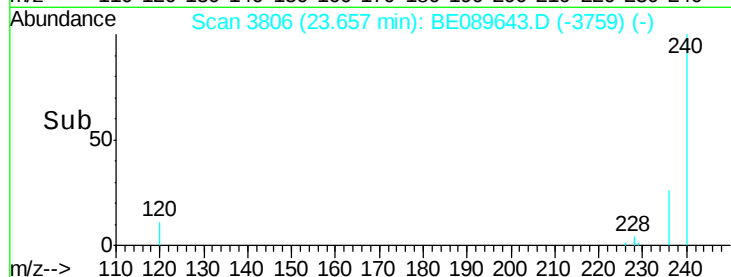
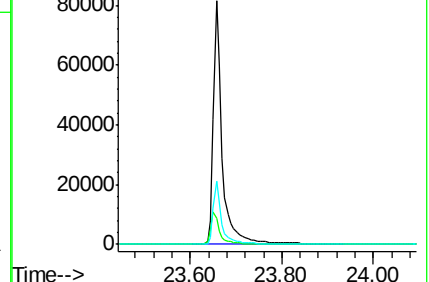
236 25.7 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.16 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

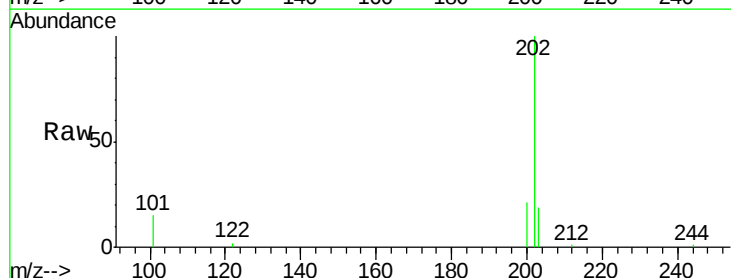
Tgt Ion:202 Resp: 4290

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

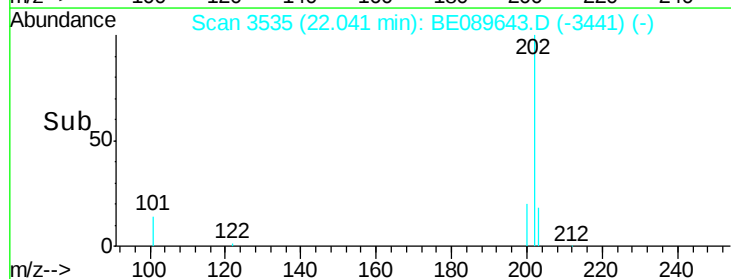
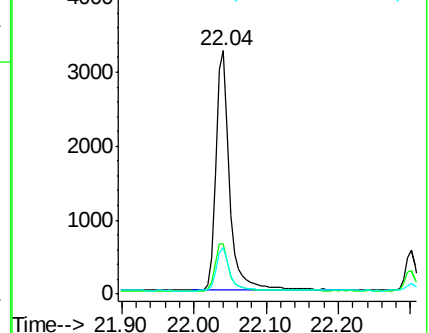
203 17.6 13.8 20.8



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





#21

Terphenyl-d14

Concen: 12.77 ng

RT: 22.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

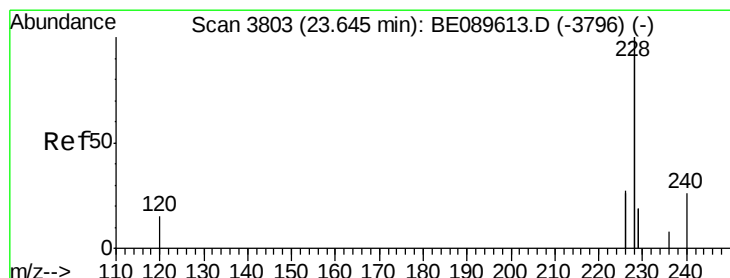
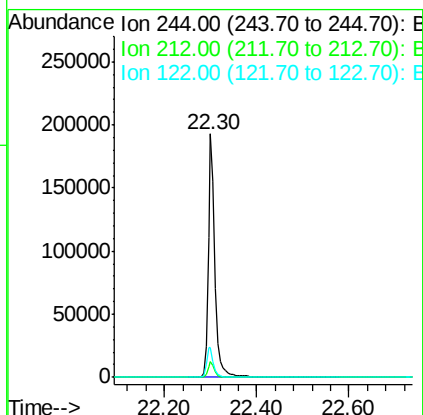
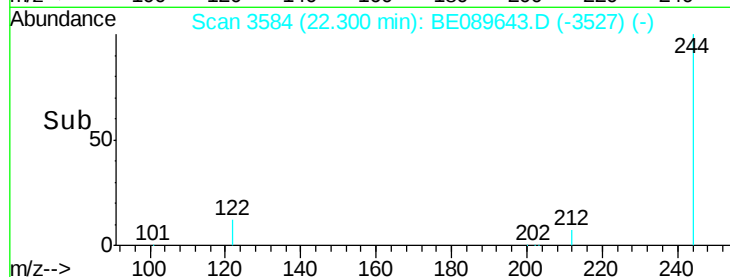
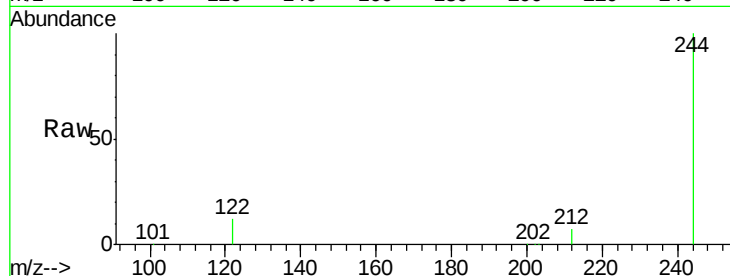
Tot Ion:244 Resp: 201629

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

122 12.3 11.8 17.8



#22

Benzo(a)anthracene

Concen: 0.13 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.01 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

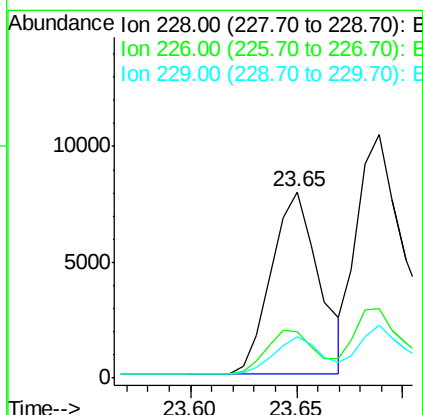
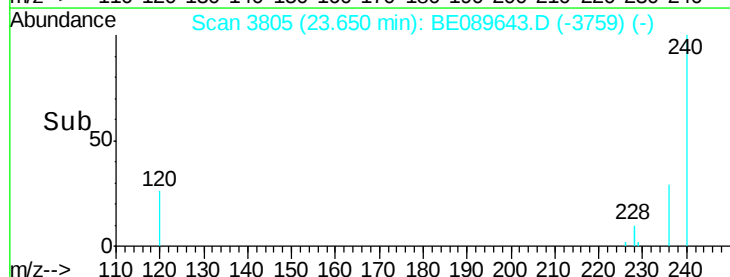
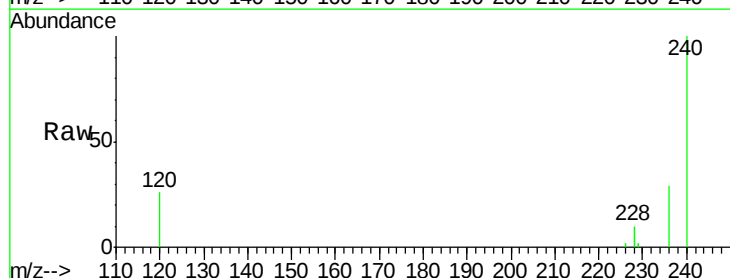
Tgt Ion:228 Resp: 12269

Ion Ratio Lower Upper

228 100

226 25.3 21.2 31.8

229 22.0 15.2 22.8





#23

Chrysene

Concen: 0.20 ng

RT: 23.69 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

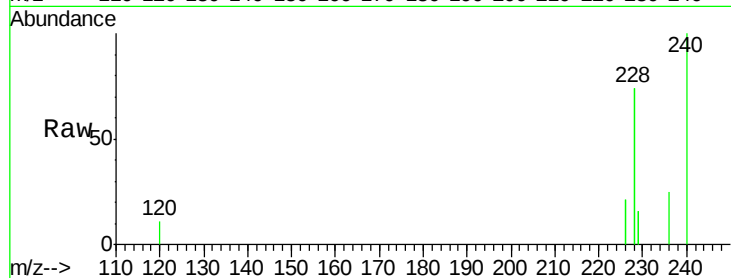
Tot Ion:228 Resp: 21714

Ion Ratio Lower Upper

228 100

226 28.5 22.2 33.4

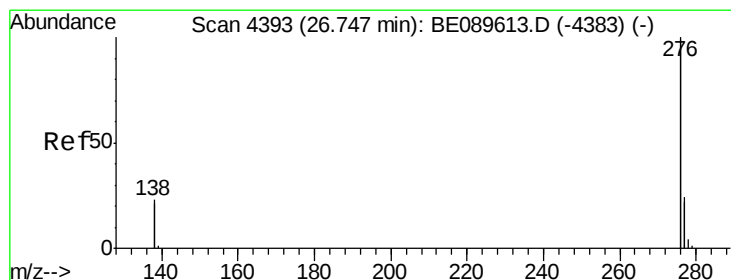
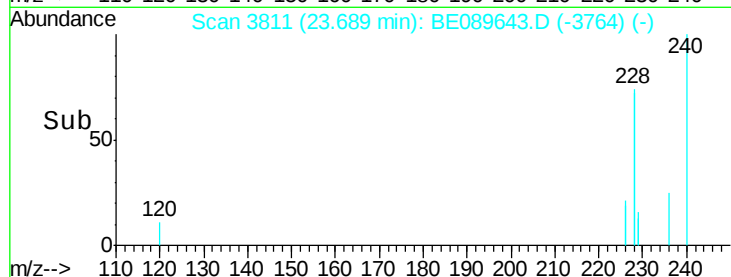
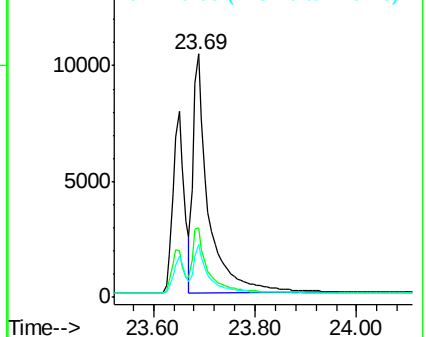
229 21.5 16.0 24.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.22 ng

RT: 26.74 min Scan# 4394

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

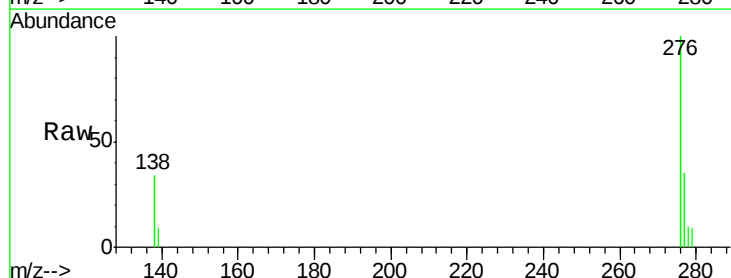
Tgt Ion:276 Resp: 4123

Ion Ratio Lower Upper

276 100

138 24.9 21.4 32.2

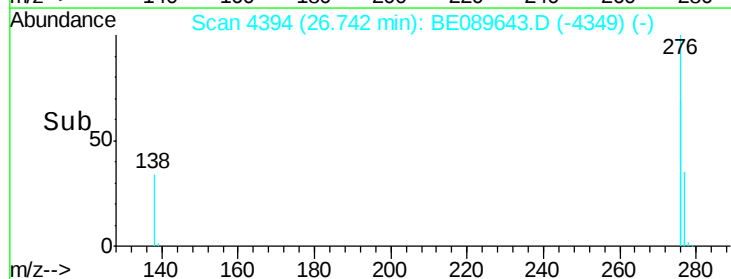
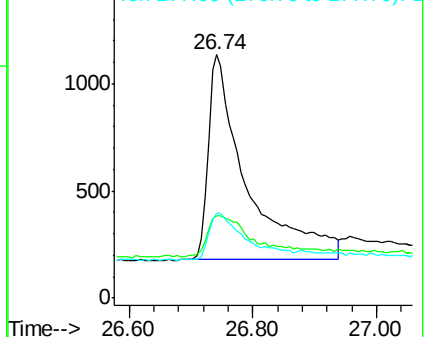
277 22.0 19.9 29.9

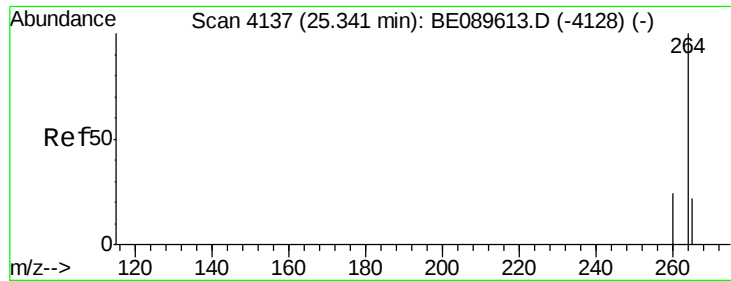


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

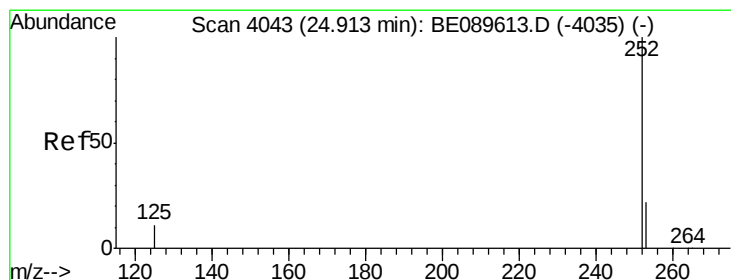
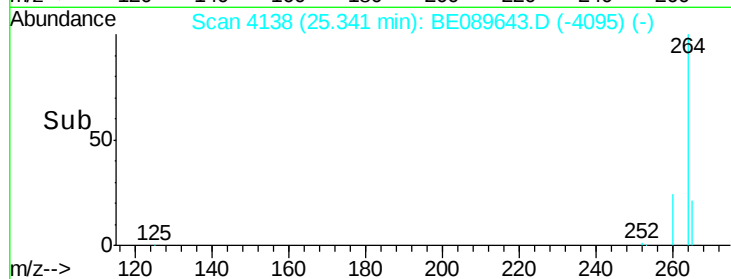
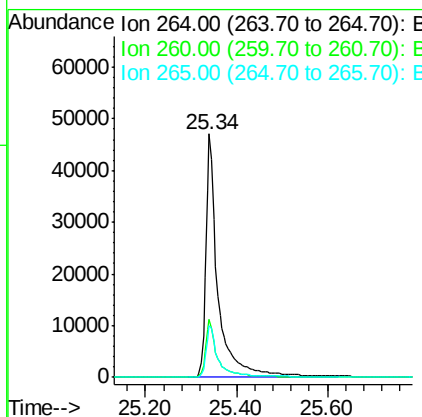
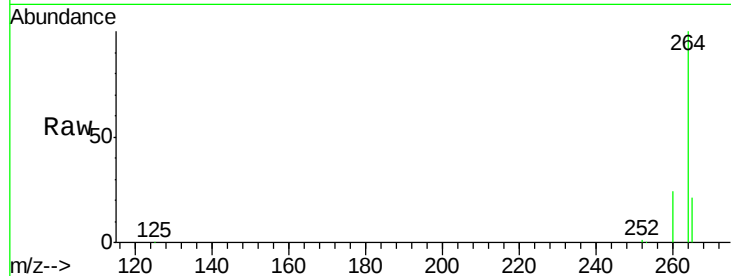




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. -0.00 min
Lab File: BE089643.D
Acq: 20 Feb 2015 1:48

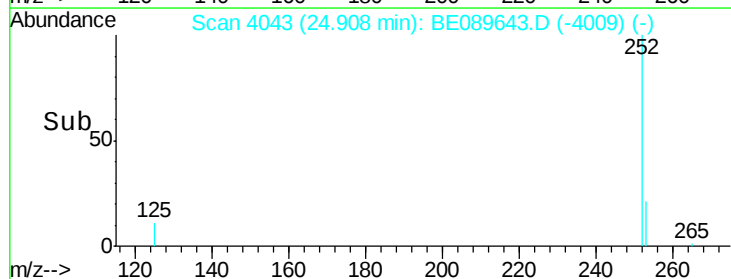
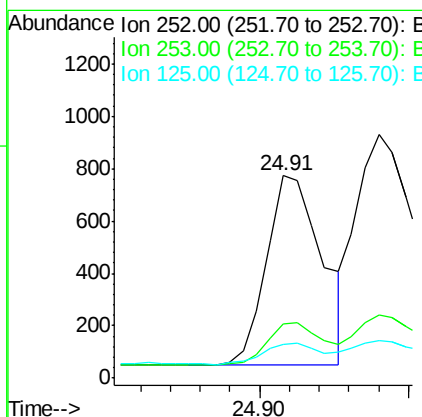
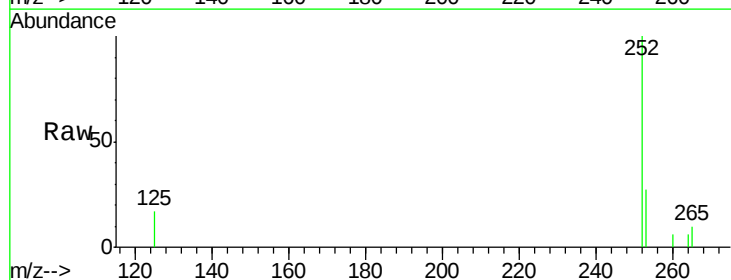
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tot Ion:264 Resp: 87233
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.6
265 21.4 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.31 ng
RT: 24.91 min Scan# 4043
Delta R.T. -0.00 min
Lab File: BE089643.D
Acq: 20 Feb 2015 1:48

Tgt Ion:252 Resp: 944
Ion Ratio Lower Upper
252 100
253 26.6 17.6 26.4#
125 16.9 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.11 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

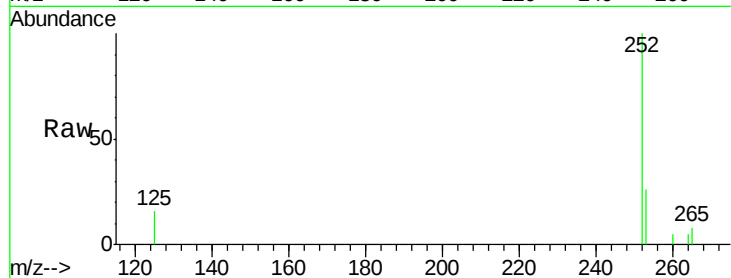
Tot Ion:252 Resp: 2807

Ion Ratio Lower Upper

252 100

253 25.9 17.7 26.5

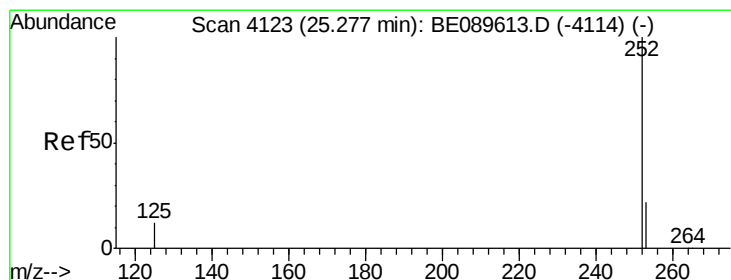
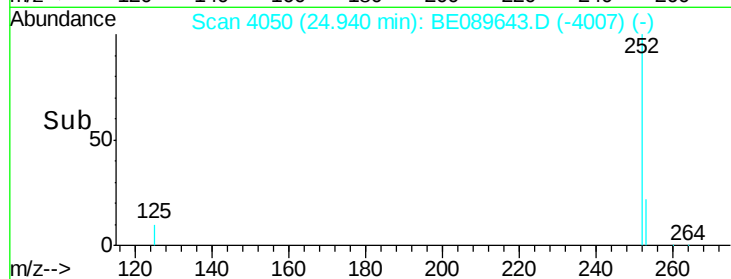
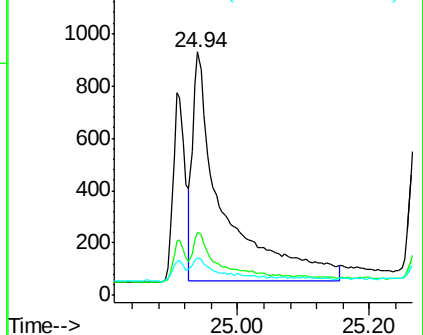
125 15.6 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.29 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

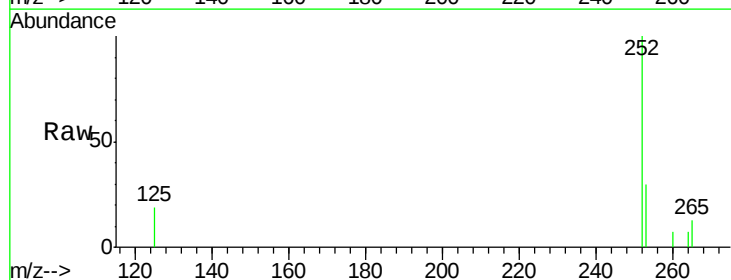
Tgt Ion:252 Resp: 1018

Ion Ratio Lower Upper

252 100

253 29.5 18.1 27.1#

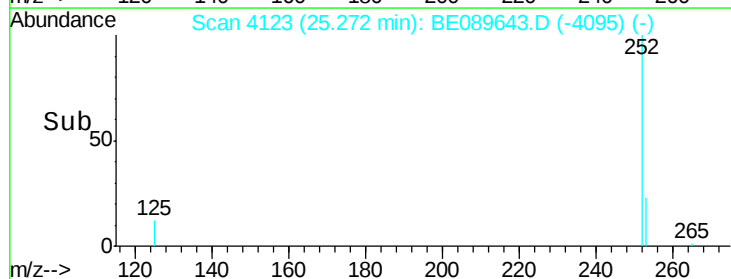
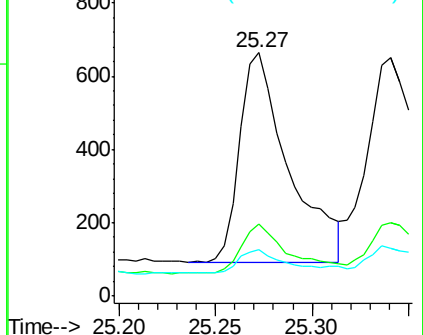
125 19.1 9.6 14.4#

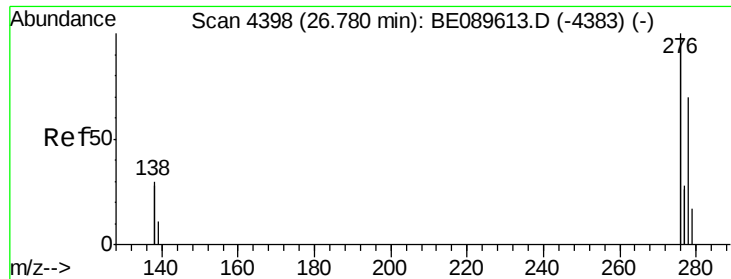


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

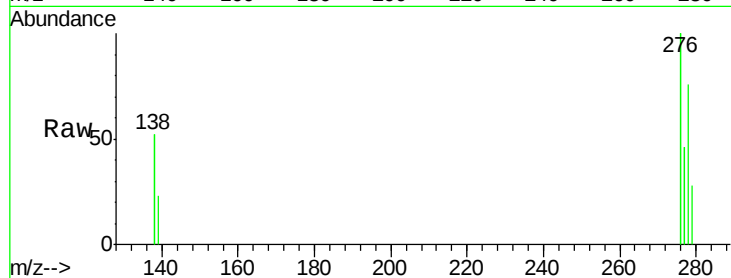
Tot Ion:278 Resp: 622

Ion Ratio Lower Upper

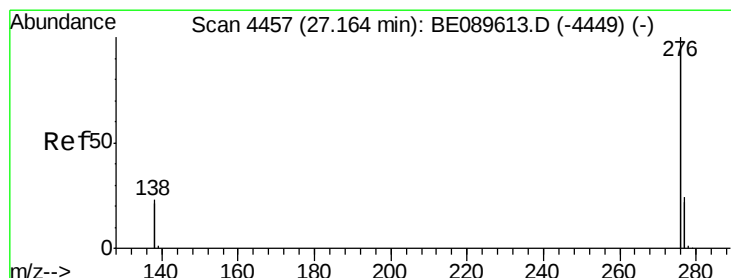
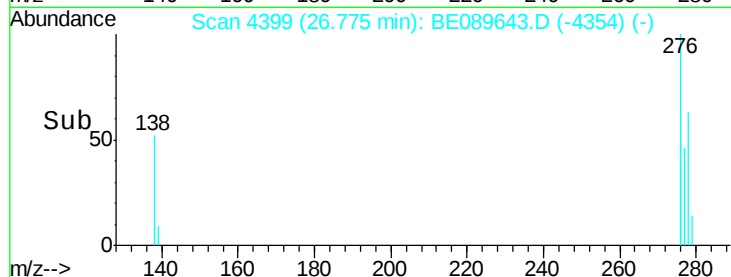
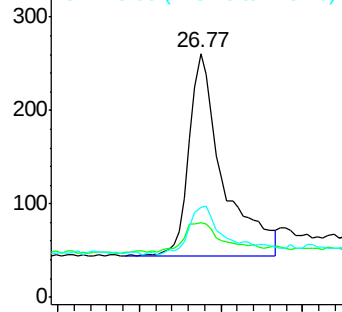
278 100

139 30.7 13.7 20.5#

279 36.8 19.7 29.5#



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



#30

Benzo(g,h,i)perylene

Concen: 0.21 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089643.D

Acq: 20 Feb 2015 1:48

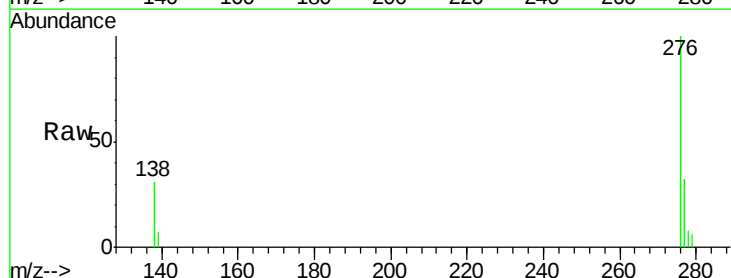
Tgt Ion:276 Resp: 5971

Ion Ratio Lower Upper

276 100

277 31.9 19.1 28.7#

138 31.0 18.7 28.1#



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

