

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089681.D
 Acq On : 24 Feb 2015 21:31
 Operator : TP/JJ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

Quant Time: Feb 25 04:20:33 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	63281	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	266089	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	119227	5.00	ng	0.01
13) Phenanthrene-d10	19.77	188	213165	5.00	ng	0.00
19) Chrysene-d12	23.66	240	161771	5.00	ng	0.00
25) Perylene-d12	25.34	264	122500	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	148069	9.36	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	254129	9.59	ng	0.00
21) Terphenyl-d14	22.30	244	234268	12.35	ng	0.00

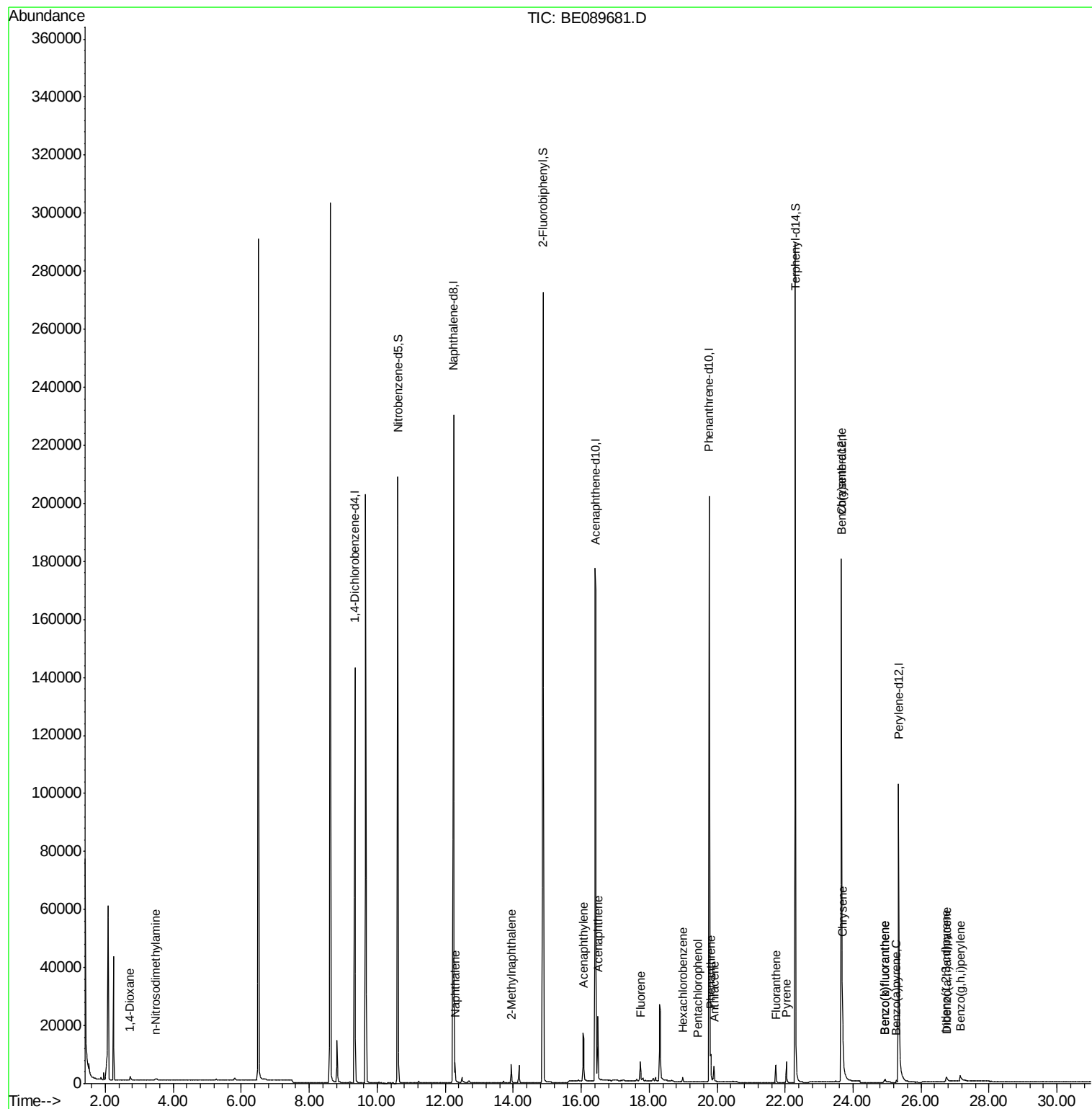
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	1116	0.14	ng	# 82
3) n-Nitrosodimethylamine	3.47	42	1057	0.17	ng	# 84
6) Naphthalene	12.29	128	8355	0.16	ng	99
7) 2-Methylnaphthalene	13.94	142	4435	0.15	ng	95
10) Acenaphthylene	16.06	152	24272	0.14	ng	100
11) Acenaphthene	16.49	154	4232	0.16	ng	97
12) Fluorene	17.74	166	4757	0.16	ng	98
14) Hexachlorobenzene	18.99	284	957	0.17	ng	96
15) Pentachlorophenol	19.44	266	76	0.35	ng	# 79
16) Phenanthrene	19.81	178	7507	0.17	ng	98
17) Anthracene	19.91	178	5839	0.15	ng	99
18) Fluoranthene	21.72	202	5495	0.14	ng	98
20) Pyrene	22.04	202	5980	0.15	ng	100
22) Benzo(a)anthracene	23.64	228	17279	0.16	ng	97
23) Chrysene	23.68	228	26983	0.18	ng	98
24) Indeno(1,2,3-cd)pyrene	26.73	276	3845	0.31	ng	# 55
26) Benzo(b)fluoranthene	24.94	252	2198	0.46	ng	94
27) Benzo(k)fluoranthene	24.94	252	2198	0.21	ng	93
28) Benzo(a)pyrene	25.27	252	1067	0.15	ng	92
29) Dibenzo(a,h)anthracene	26.77	278	650	0.35	ng	# 89
30) Benzo(g,h,i)perylene	27.15	276	5892	0.39	ng	93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

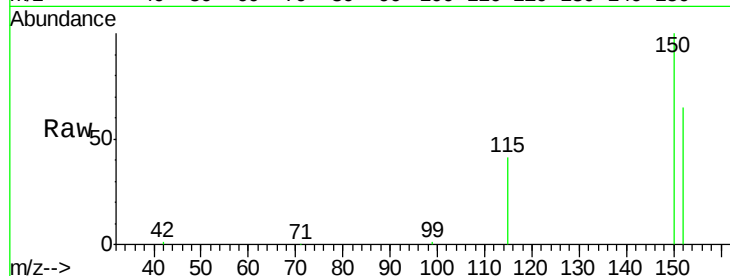
Tgt Ion: 152 Resp: 63281

Ion Ratio Lower Upper

152 100

150 154.3 123.4 185.0

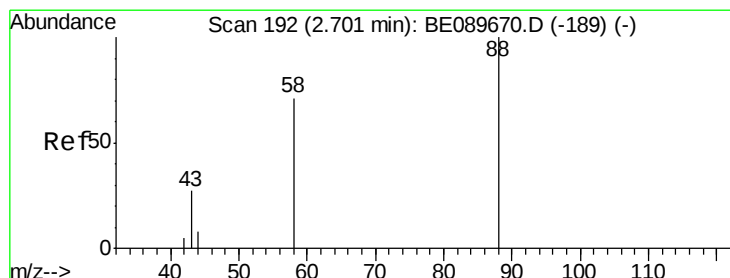
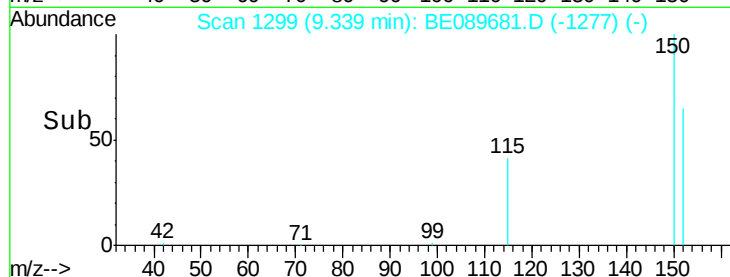
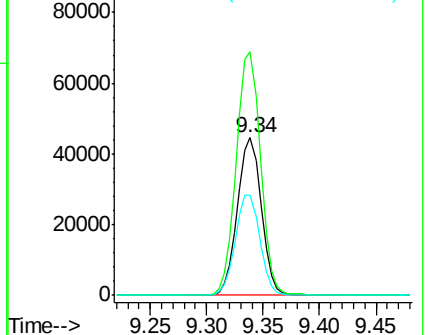
115 63.5 50.8 76.2



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: 0.14 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.03 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

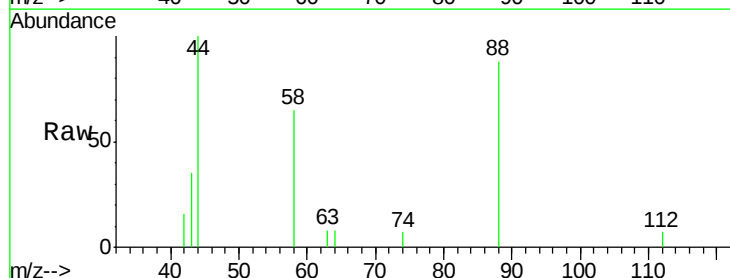
Tgt Ion: 88 Resp: 1116

Ion Ratio Lower Upper

88 100

58 77.8 62.4 93.6

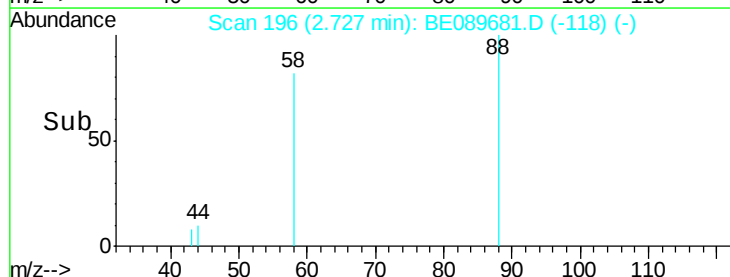
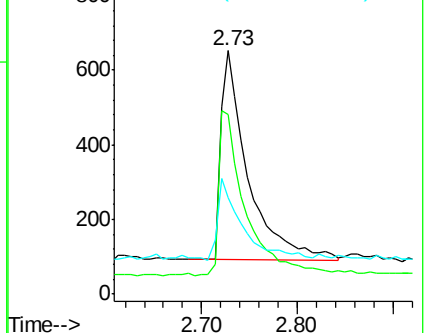
43 0.0 26.6 40.0#

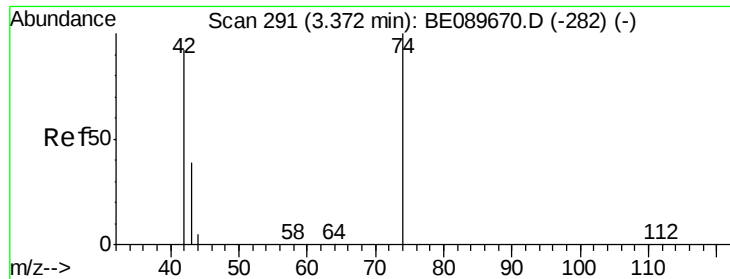


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



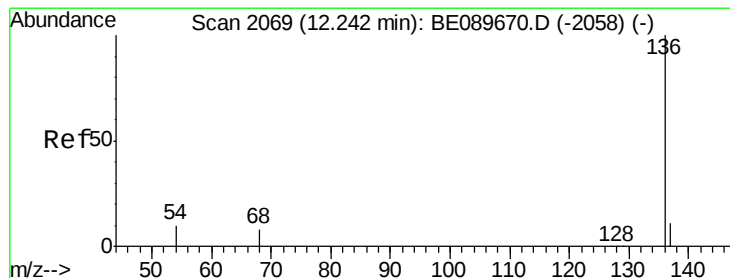
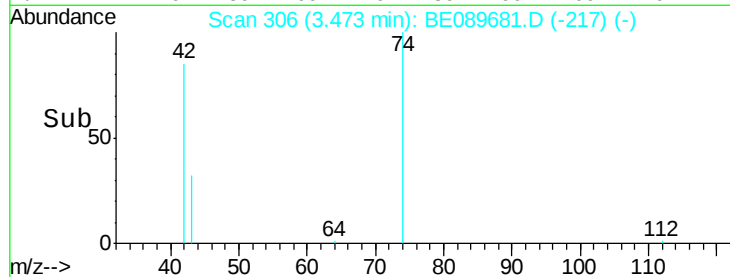
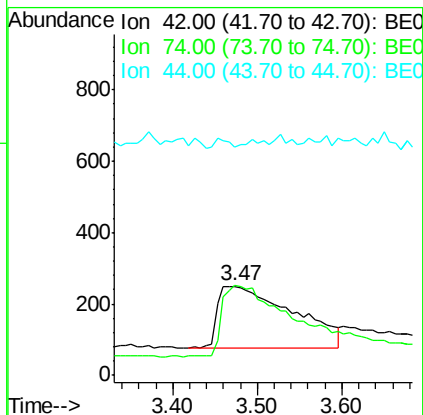
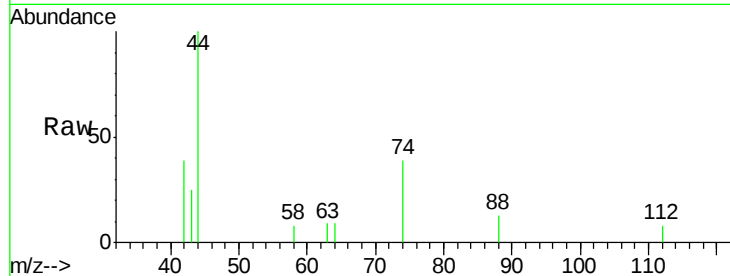


#3

n-Nitrosodimethylamine
Concen: 0.17 ng
RT: 3.47 min Scan# 306
Delta R.T. 0.10 min
Lab File: BE089681.D
Acq: 24 Feb 2015 21:31

Instrument :
BNA_E
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MDL-07-S

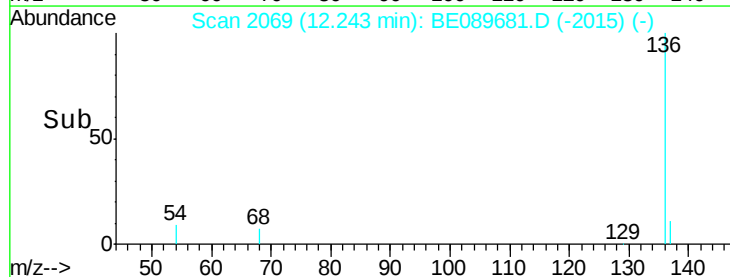
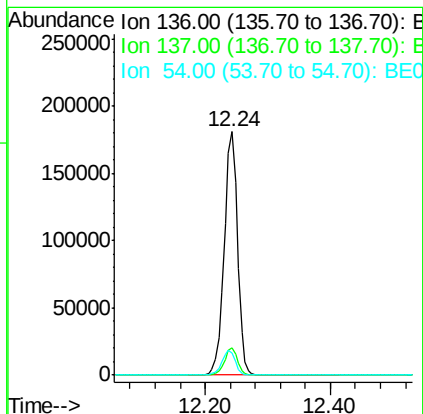
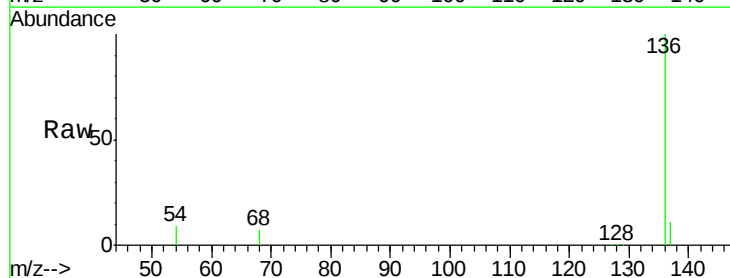
Tgt Ion: 42 Resp: 1057
Ion Ratio Lower Upper
42 100
74 130.7 91.1 136.7
44 0.0 4.7 7.1#



#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2069
Delta R.T. 0.00 min
Lab File: BE089681.D
Acq: 24 Feb 2015 21:31

Tgt Ion: 136 Resp: 266089
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 8.9 7.8 11.8





#5

Nitrobenzene-d5

Concen: 9.36 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

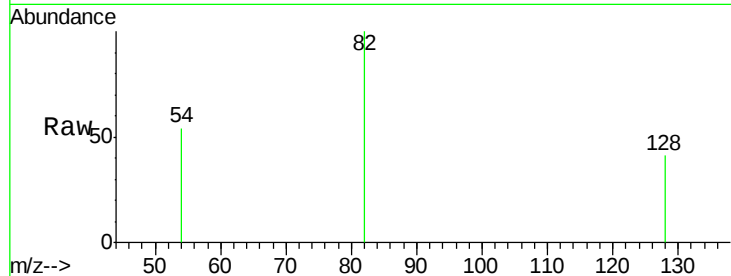
Tgt Ion: 82 Resp: 148069

Ion Ratio Lower Upper

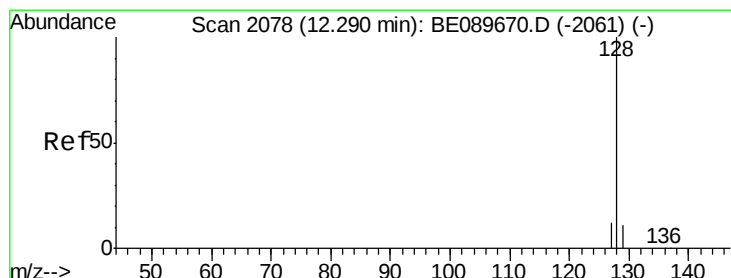
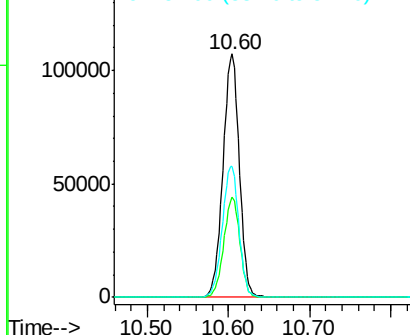
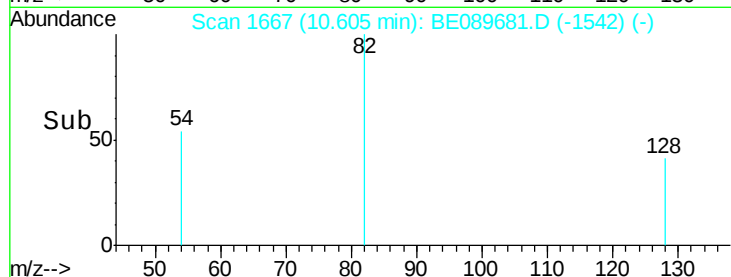
82 100

128 41.1 30.6 46.0

54 53.7 43.6 65.4



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: 0.16 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

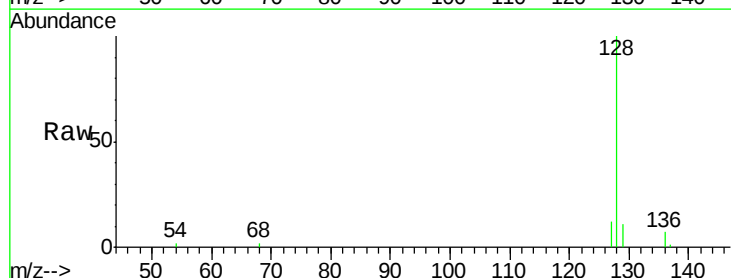
Tgt Ion: 128 Resp: 8355

Ion Ratio Lower Upper

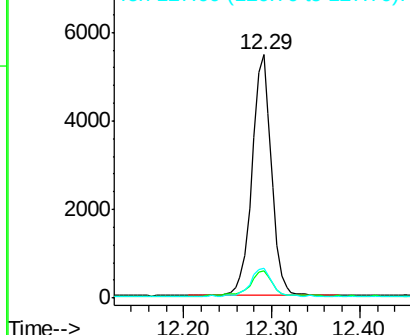
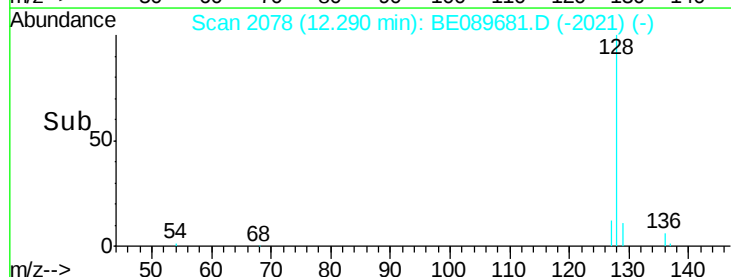
128 100

129 11.5 8.9 13.3

127 12.3 9.7 14.5



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





#7

2-Methylnaphthalene

Concen: 0.15 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

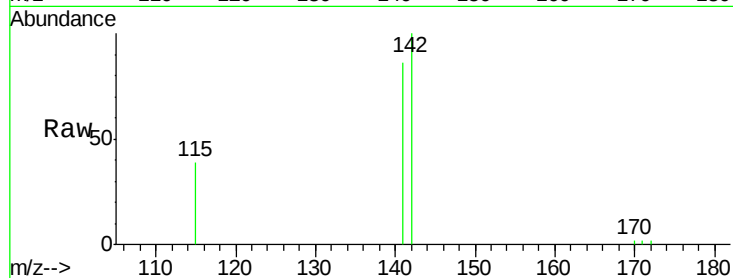
Tgt Ion:142 Resp: 4435

Ion Ratio Lower Upper

142 100

141 86.0 66.0 99.0

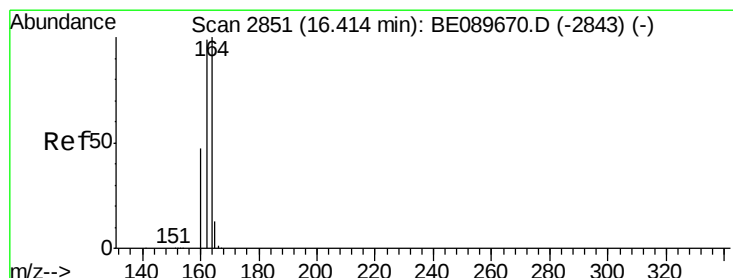
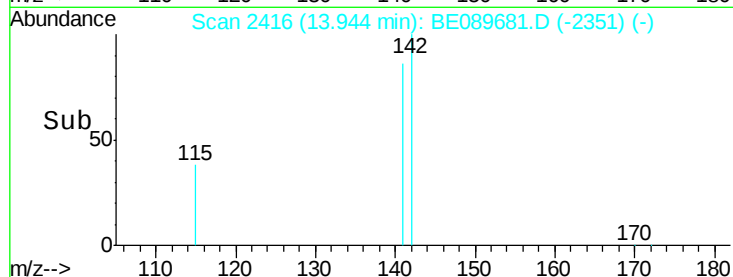
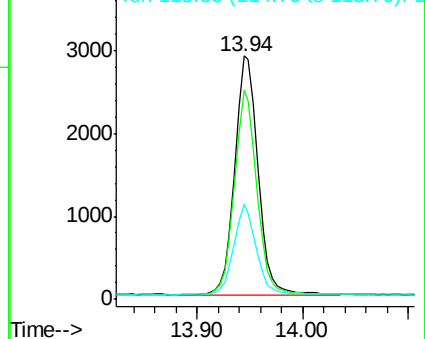
115 39.2 27.4 41.0



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. 0.01 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

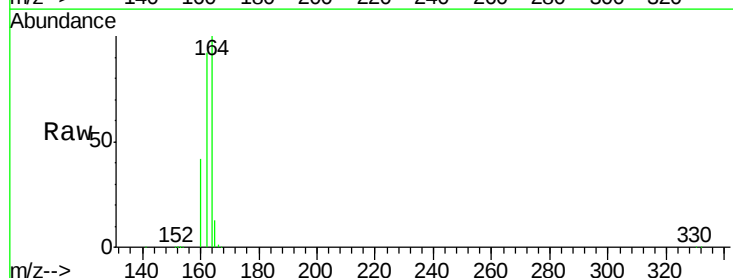
Tgt Ion:164 Resp: 119227

Ion Ratio Lower Upper

164 100

162 92.3 79.4 119.2

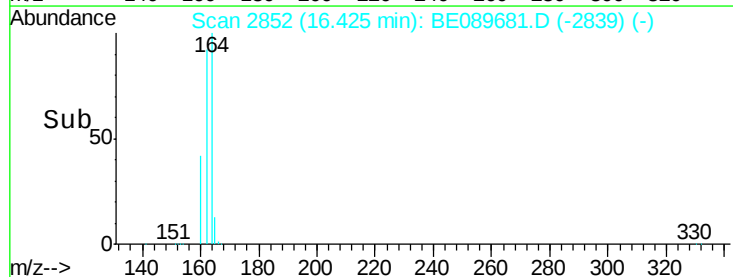
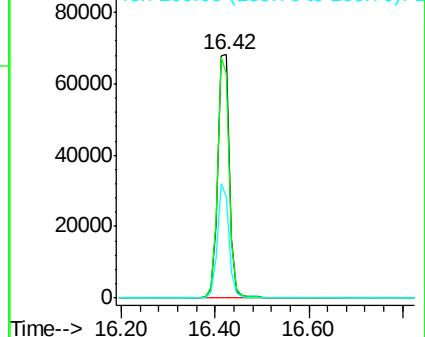
160 41.8 37.6 56.4



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





#9

2-Fluorobiphenyl

Concen: 9.59 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

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ClientSampleId :

MDL-07-S

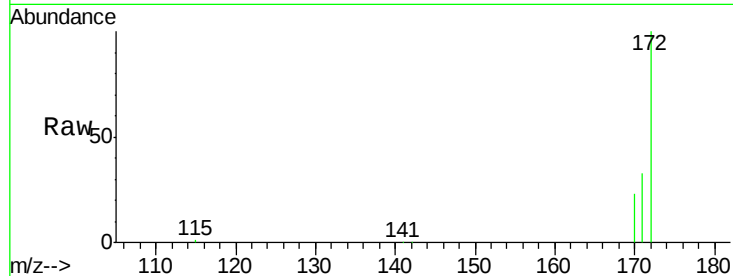
Tgt Ion:172 Resp: 254129

Ion Ratio Lower Upper

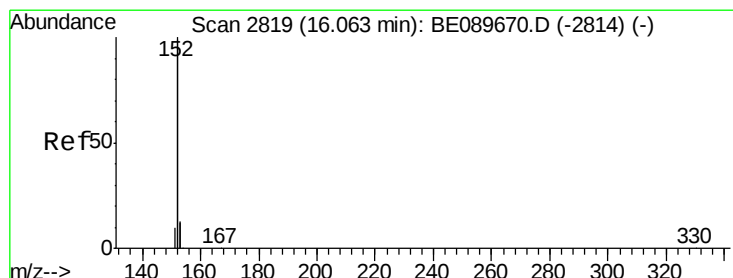
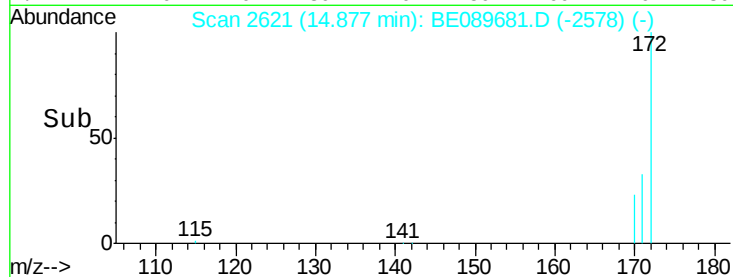
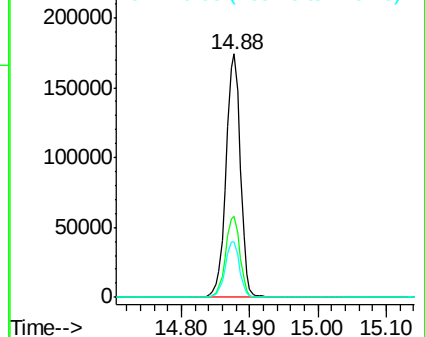
172 100

171 33.3 27.3 40.9

170 22.6 18.5 27.7



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: 0.14 ng

RT: 16.06 min Scan# 2819

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

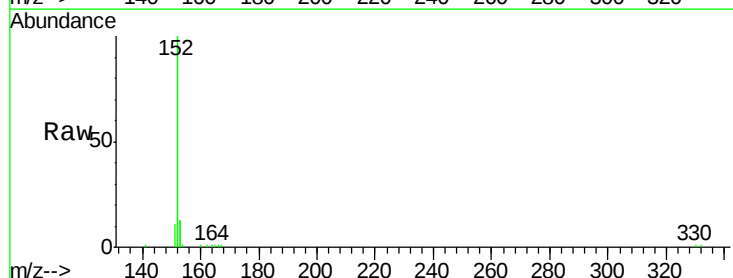
Tgt Ion:152 Resp: 24272

Ion Ratio Lower Upper

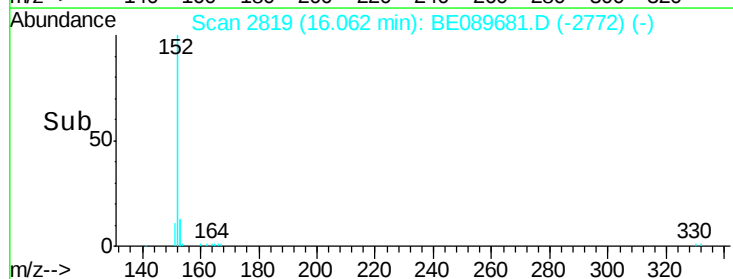
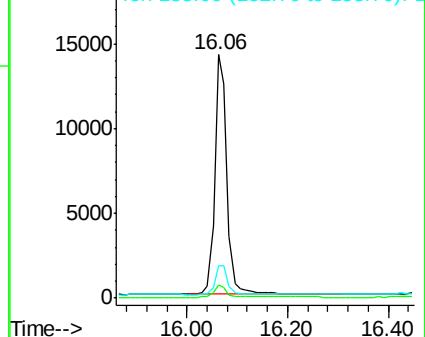
152 100

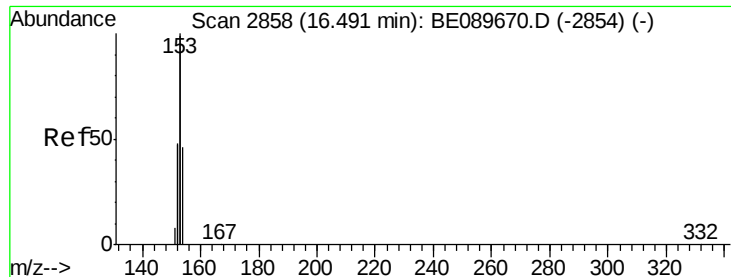
151 4.8 3.8 5.6

153 12.9 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





#11

Acenaphthene

Concen: 0.16 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

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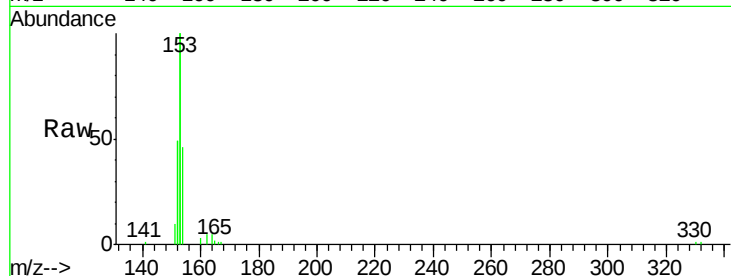
Tgt Ion:154 Resp: 4232

Ion Ratio Lower Upper

154 100

153 437.1 345.8 518.8

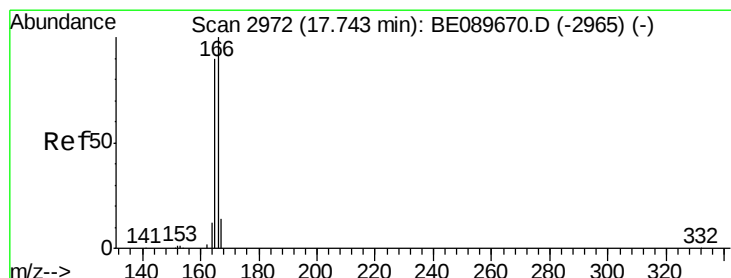
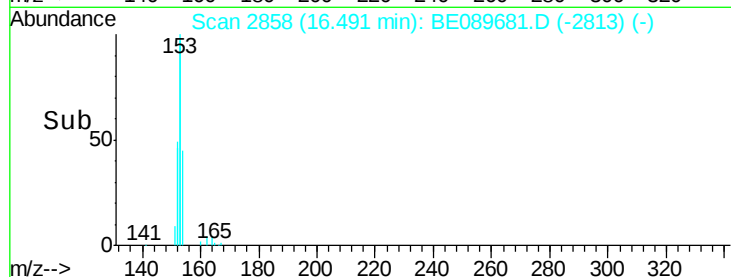
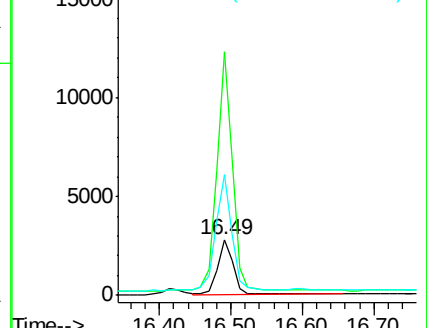
152 220.2 168.6 252.8



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: BE089681.D

Acq: 24 Feb 2015 21:31

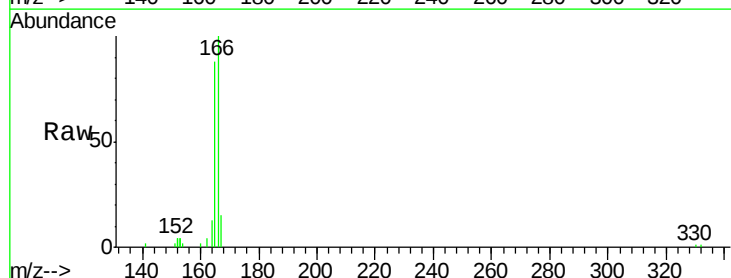
Tgt Ion:166 Resp: 4757

Ion Ratio Lower Upper

166 100

165 89.6 73.6 110.4

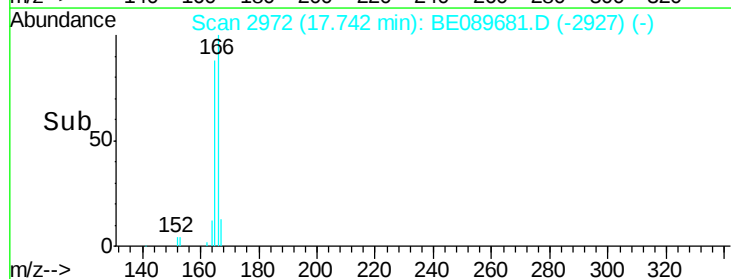
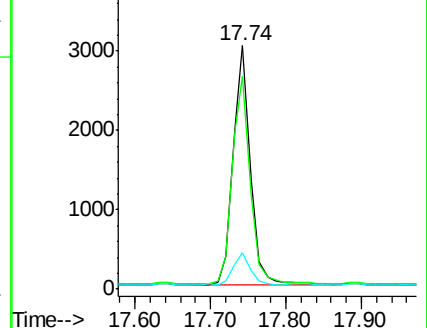
167 13.5 10.6 16.0

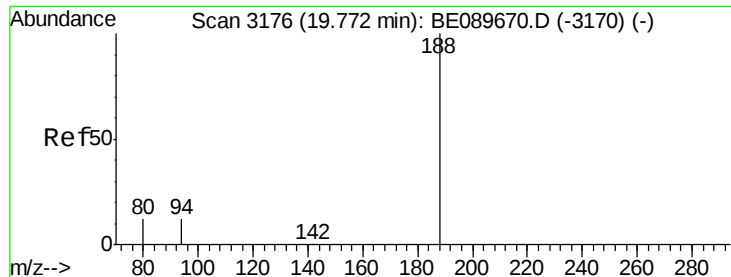


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

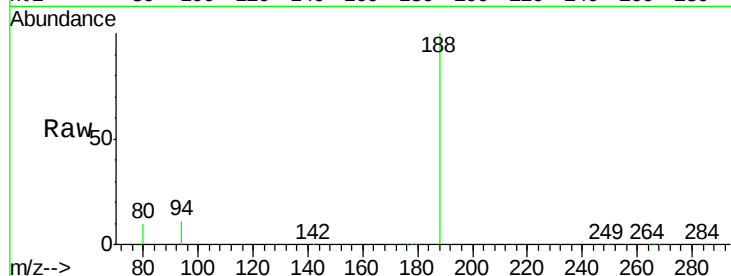




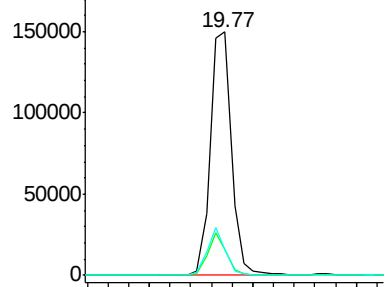
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089681.D
Acq: 24 Feb 2015 21:31

Instrument :
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ClientSampleId :
MDL-07-S

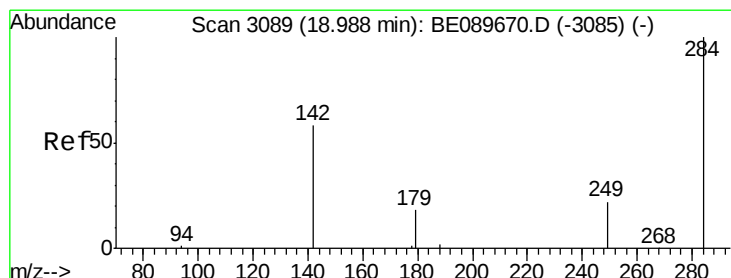
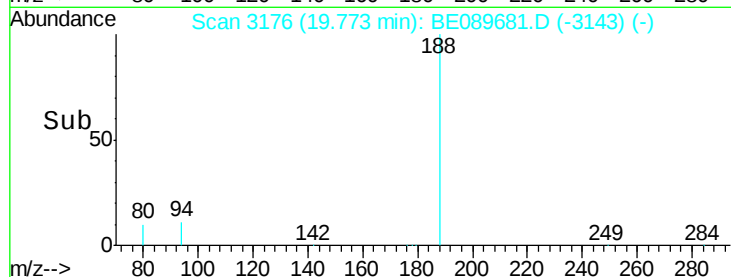
Tgt Ion:188 Resp: 213165
Ion Ratio Lower Upper
188 100
94 10.6 9.4 14.2
80 10.5 9.5 14.3



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

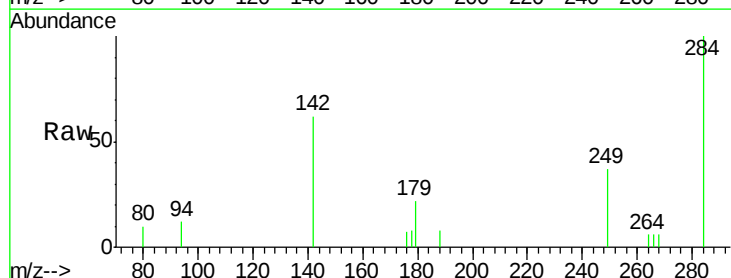


Time-->

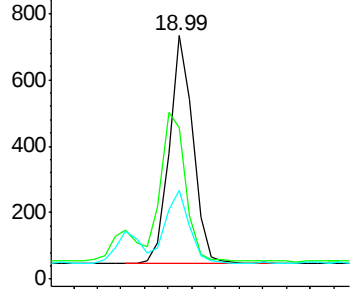


#14
Hexachlorobenzene
Concen: 0.17 ng
RT: 18.99 min Scan# 3089
Delta R.T. 0.00 min
Lab File: BE089681.D
Acq: 24 Feb 2015 21:31

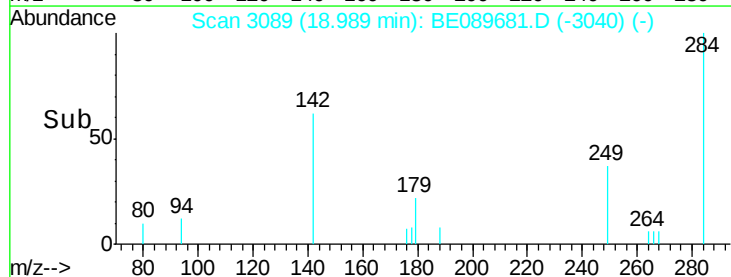
Tgt Ion:284 Resp: 957
Ion Ratio Lower Upper
284 100
142 66.2 55.4 83.2
249 32.0 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



Time-->





#15

Pentachlorophenol

Concen: 0.35 ng

RT: 19.44 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

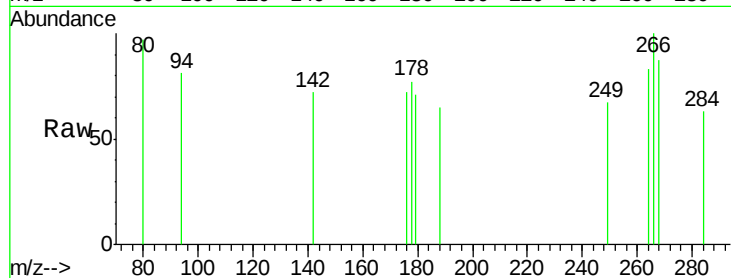
Tgt Ion:266 Resp: 76

Ion Ratio Lower Upper

266 100

268 86.7 56.3 84.5#

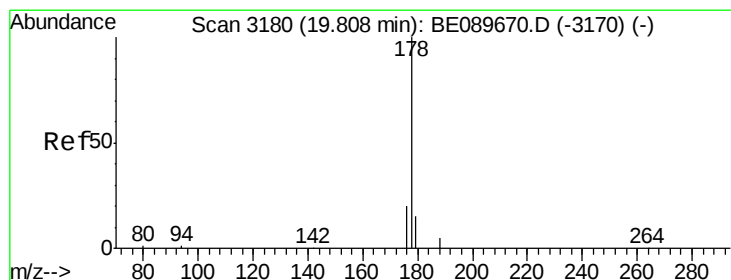
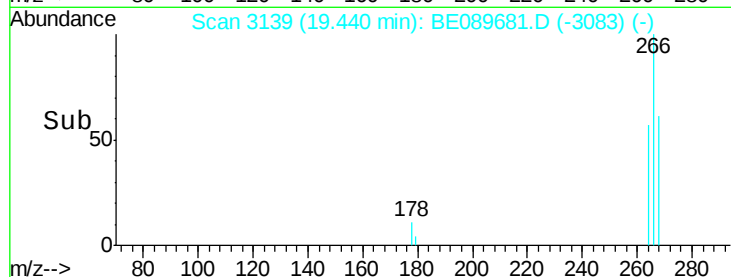
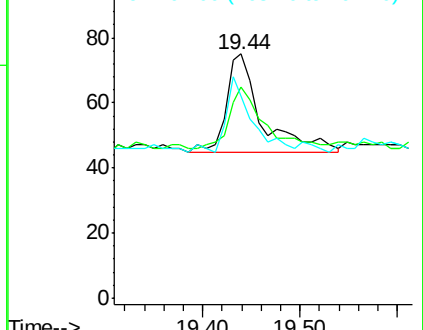
264 82.7 51.8 77.8#



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



#16

Phenanthrene

Concen: 0.17 ng

RT: 19.81 min Scan# 3180

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

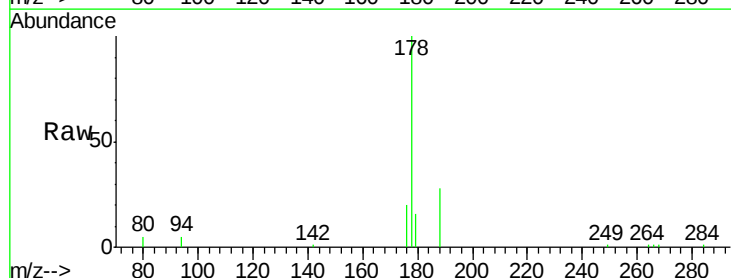
Tgt Ion:178 Resp: 7507

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

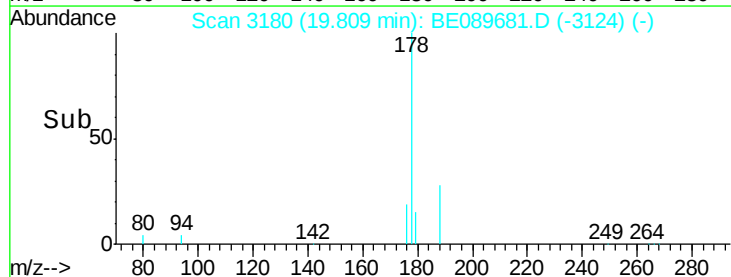
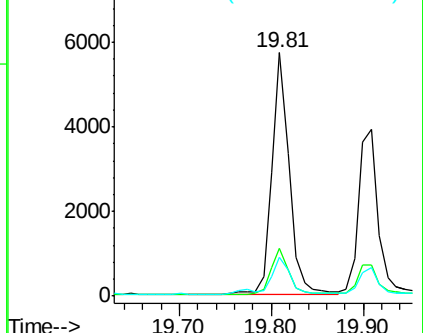
179 17.0 12.5 18.7

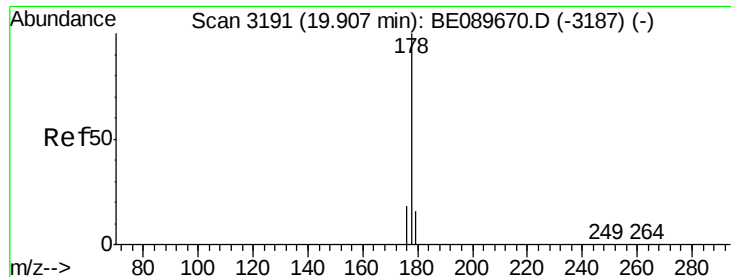


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

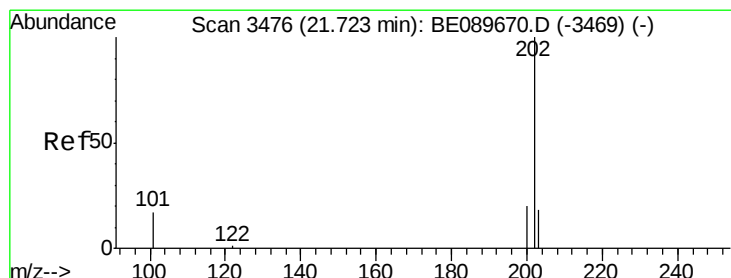
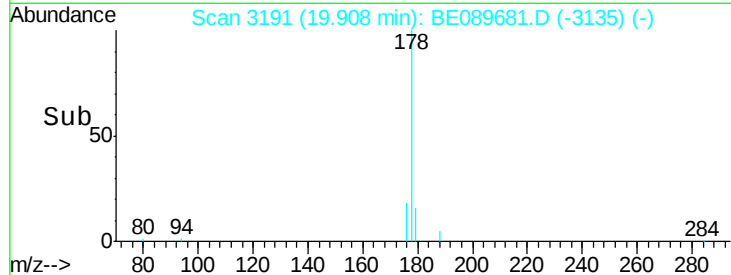
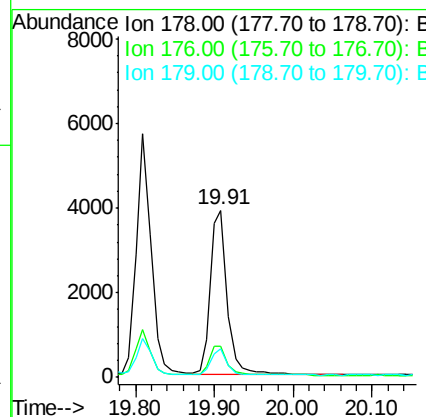
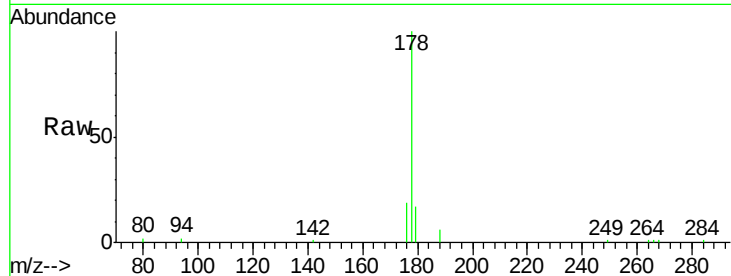




#17
 Anthracene
 Concen: 0.15 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. 0.00 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

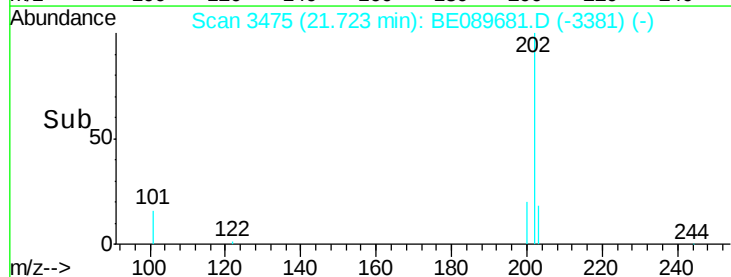
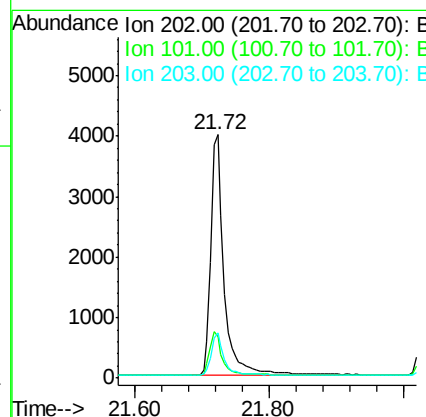
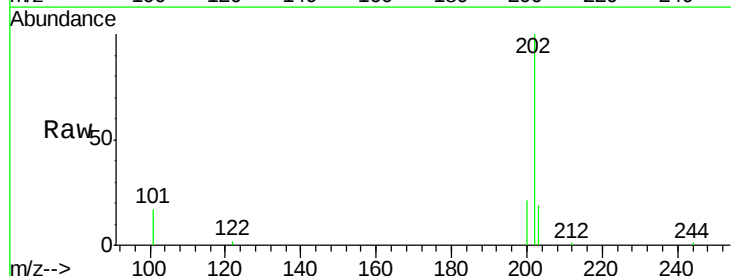
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

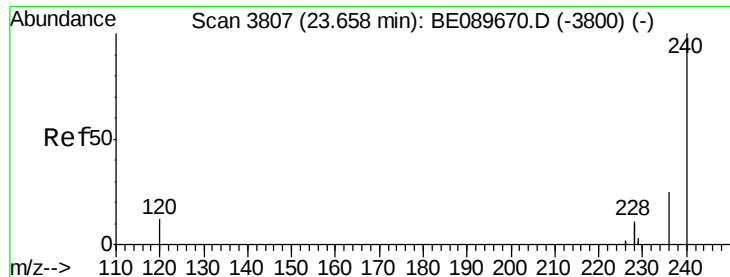
Tgt Ion:178 Resp: 5839
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.8 22.2
 179 15.8 12.2 18.2



#18
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.72 min Scan# 3475
 Delta R.T. 0.00 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

Tgt Ion:202 Resp: 5495
 Ion Ratio Lower Upper
 202 100
 101 17.1 14.9 22.3
 203 16.7 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

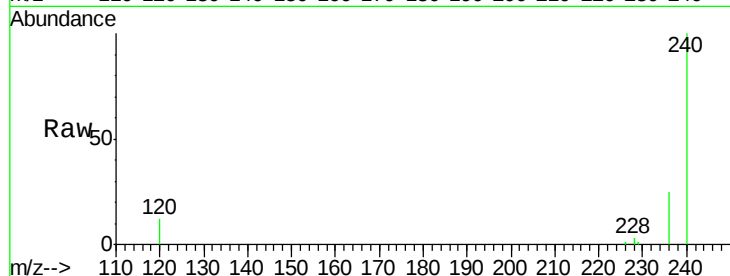
Tgt Ion:240 Resp: 161771

Ion Ratio Lower Upper

240 100

120 12.1 9.4 14.0

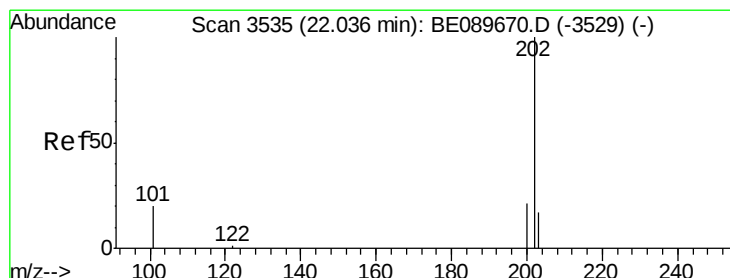
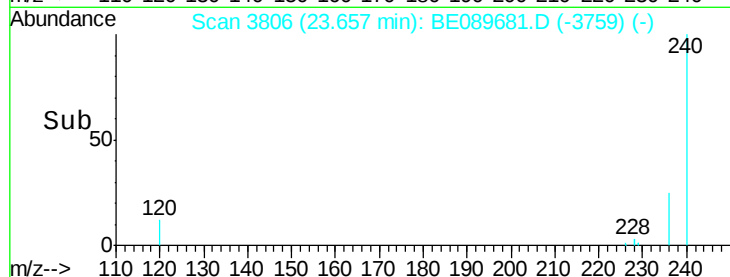
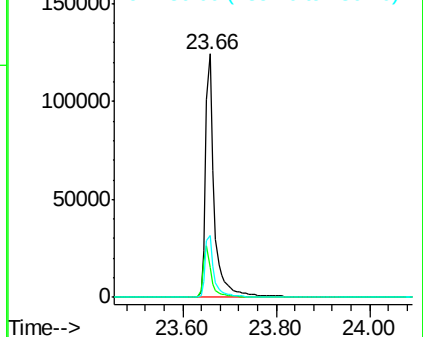
236 25.3 19.9 29.9



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



#20

Pyrene

Concen: 0.15 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

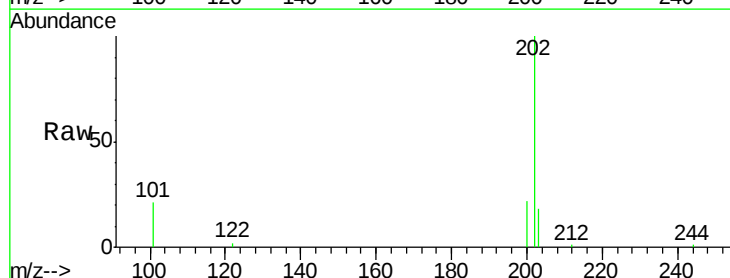
Tgt Ion:202 Resp: 5980

Ion Ratio Lower Upper

202 100

200 20.7 16.4 24.6

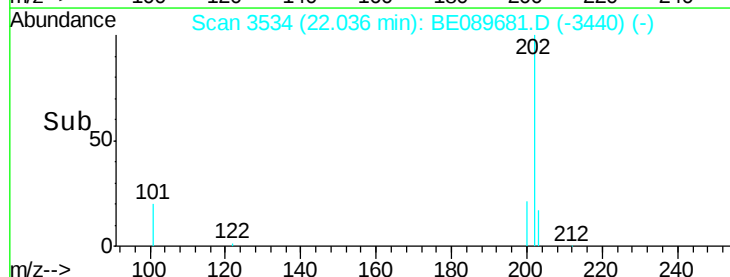
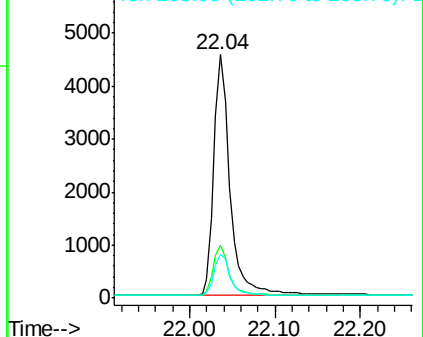
203 17.5 13.9 20.9

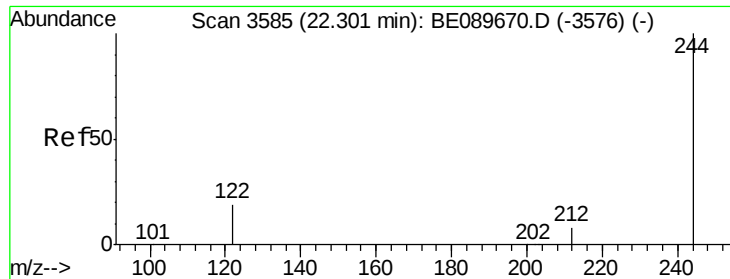


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

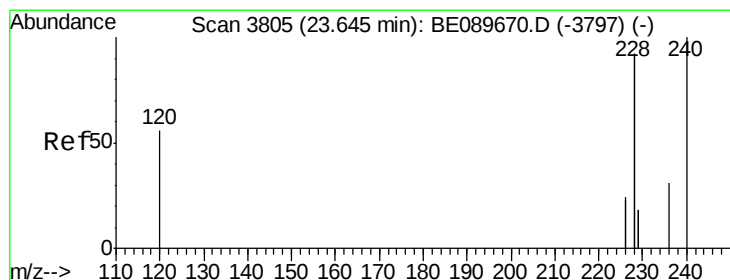
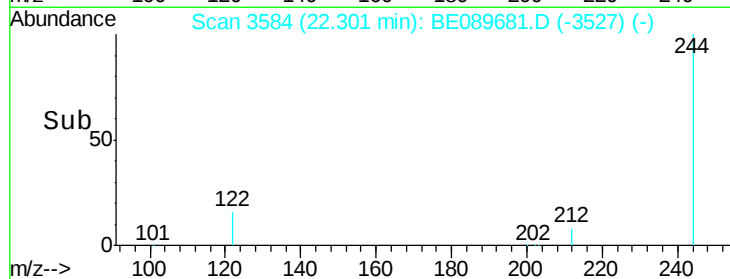
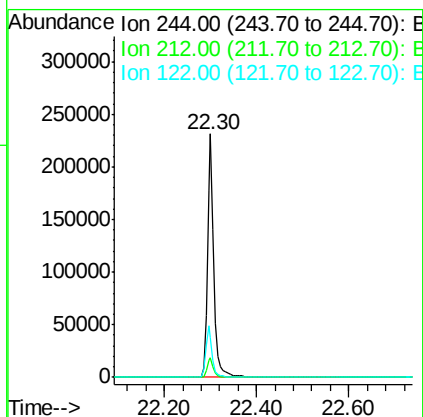
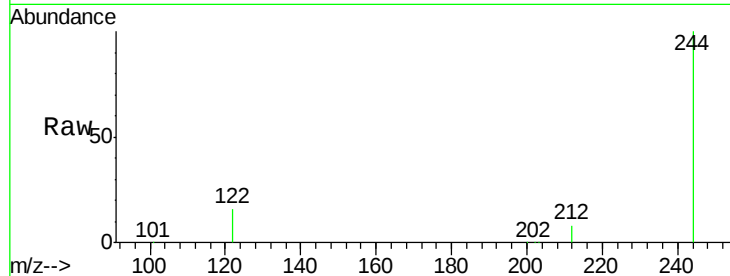




#21
 Terphenyl-d14
 Concen: 12.35 ng
 RT: 22.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

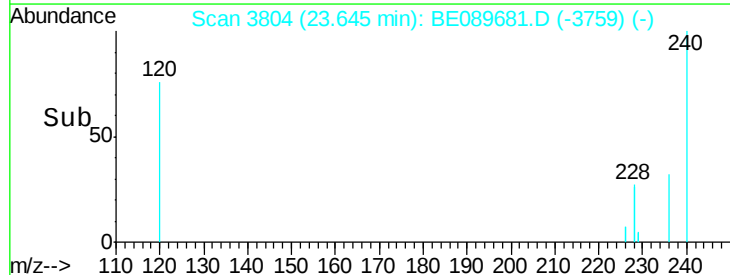
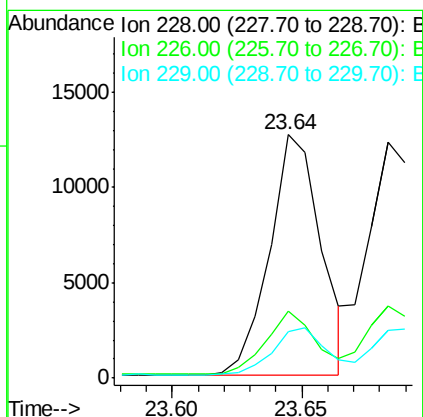
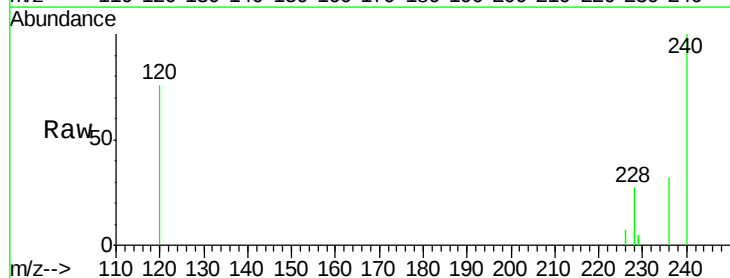
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

Tgt Ion:244 Resp: 234268
 Ion Ratio Lower Upper
 244 100
 212 8.1 7.0 10.6
 122 16.4 15.4 23.0



#22
 Benzo(a)anthracene
 Concen: 0.16 ng
 RT: 23.64 min Scan# 3804
 Delta R.T. -0.00 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

Tgt Ion:228 Resp: 17279
 Ion Ratio Lower Upper
 228 100
 226 27.7 20.6 31.0
 229 19.1 15.8 23.6





#23

Chrysene

Concen: 0.18 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

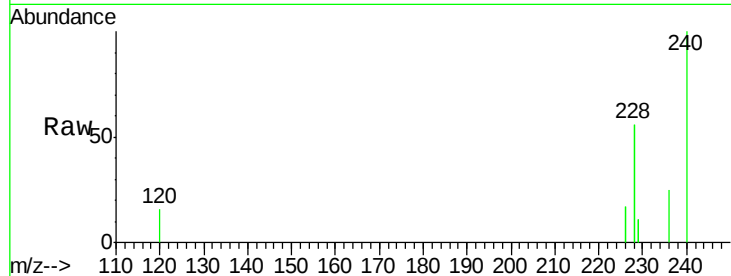
Tgt Ion:228 Resp: 26983

Ion Ratio Lower Upper

228 100

226 30.6 23.6 35.4

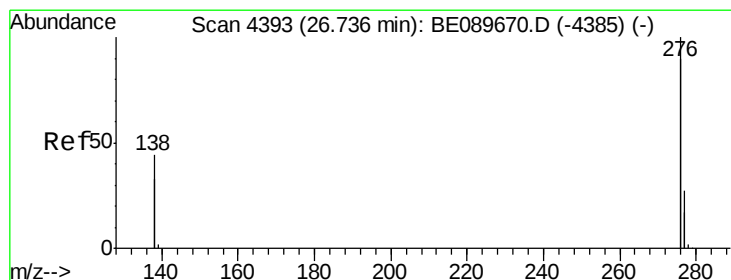
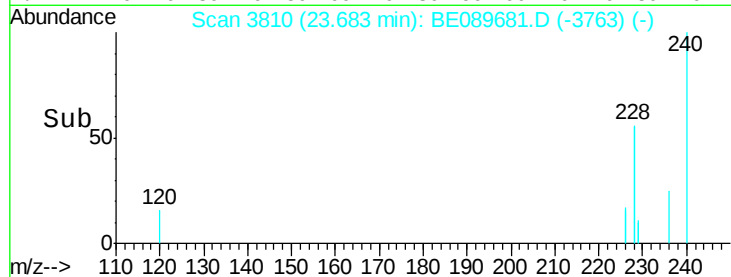
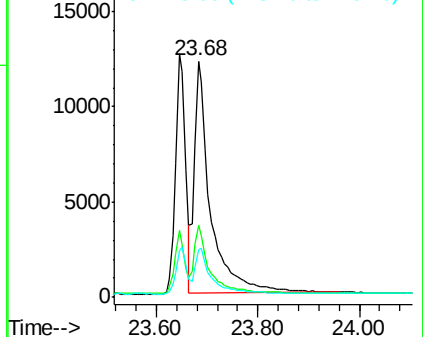
229 20.2 15.3 22.9



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: 0.31 ng

RT: 26.73 min Scan# 4392

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

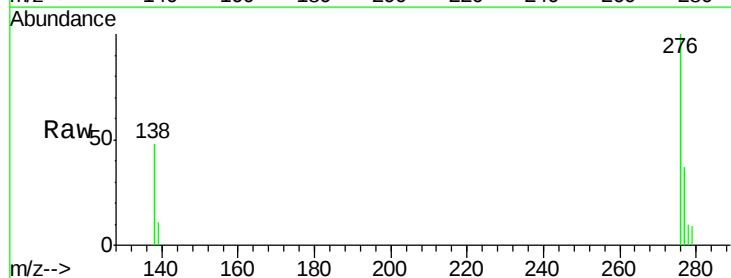
Tgt Ion:276 Resp: 3845

Ion Ratio Lower Upper

276 100

138 37.4 0.0 0.0#

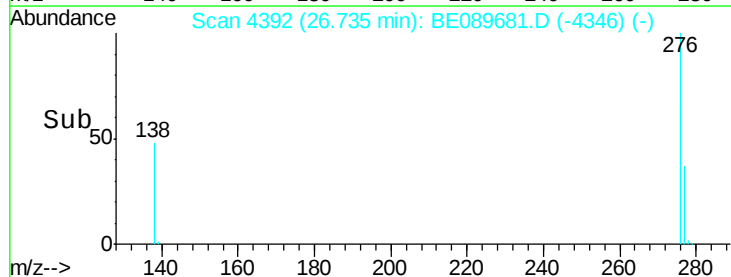
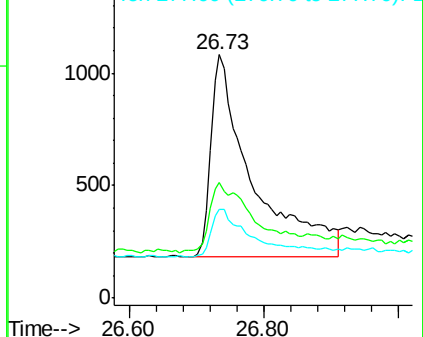
277 22.0 5.2 7.8#

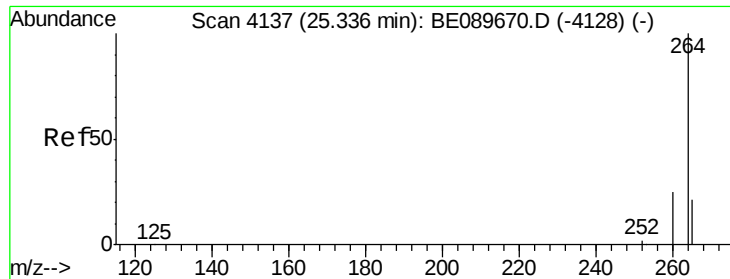


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

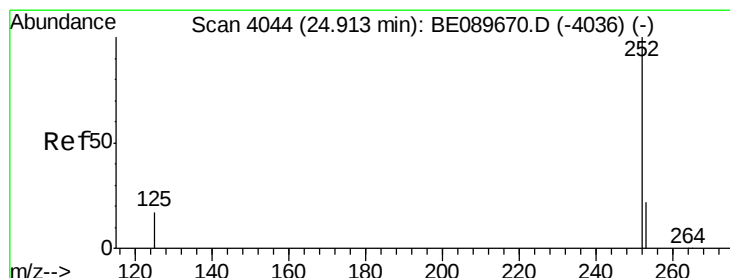
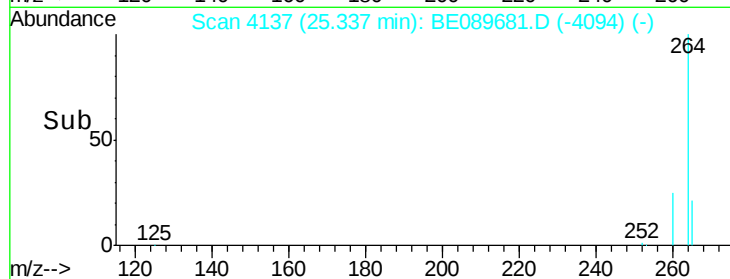
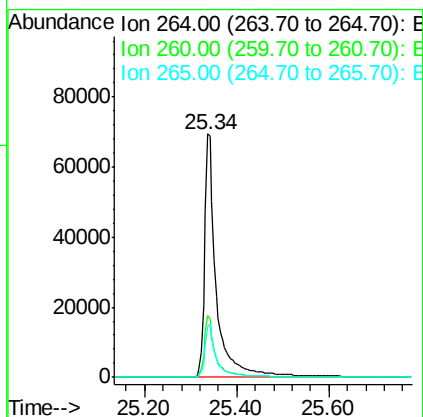
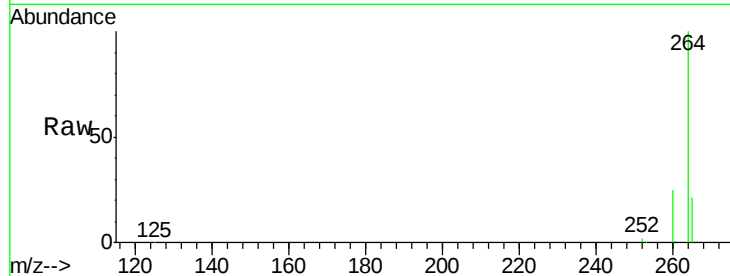




#25
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

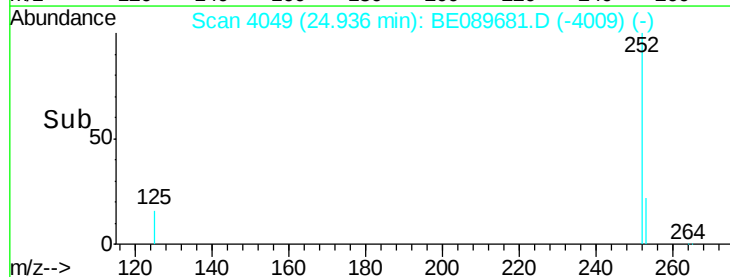
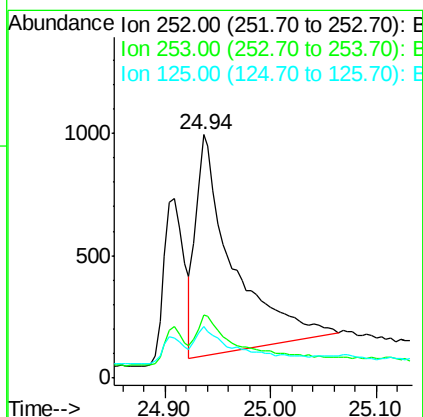
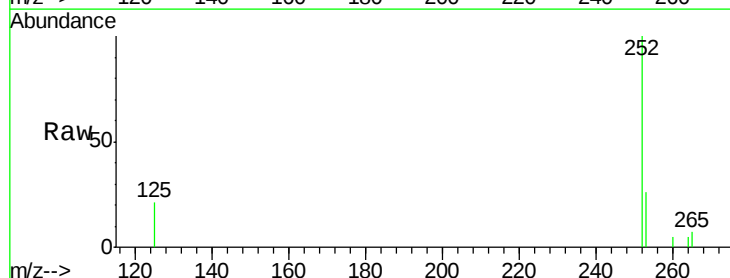
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

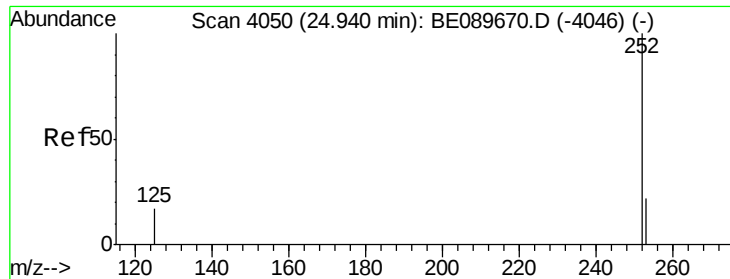
Tgt Ion: 264 Resp: 122500
 Ion Ratio Lower Upper
 264 100
 260 25.4 20.2 30.4
 265 20.9 17.0 25.4



#26
Benzo(b)fluoranthene
 Concen: 0.46 ng
 RT: 24.94 min Scan# 4049
 Delta R.T. 0.02 min
 Lab File: BE089681.D
 Acq: 24 Feb 2015 21:31

Tgt Ion: 252 Resp: 2198
 Ion Ratio Lower Upper
 252 100
 253 26.1 18.6 27.8
 125 21.1 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 0.21 ng

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

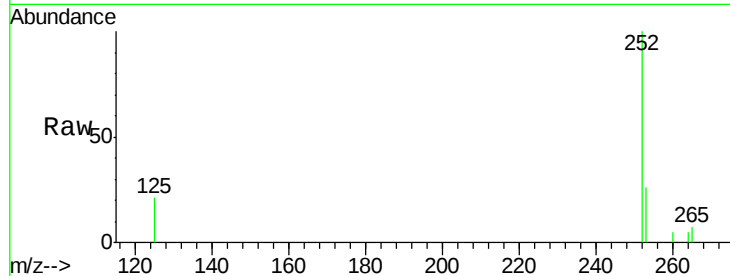
Tgt Ion:252 Resp: 2198

Ion Ratio Lower Upper

252 100

253 26.1 18.0 27.0

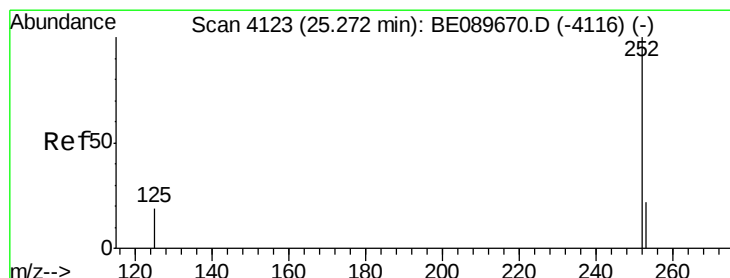
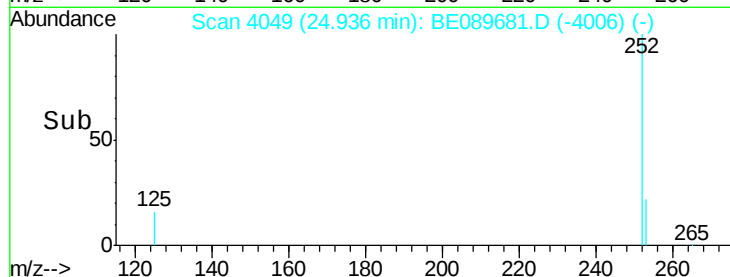
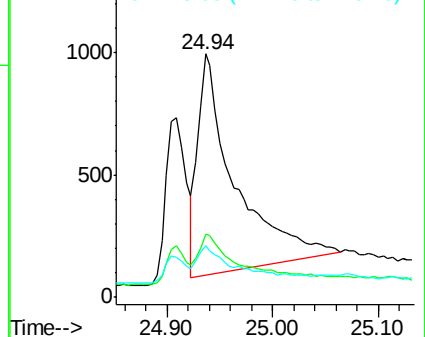
125 21.1 14.3 21.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.15 ng

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

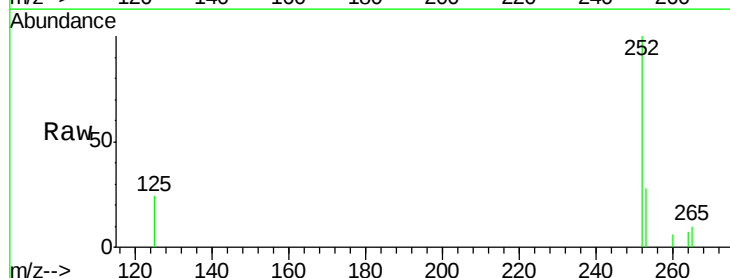
Tgt Ion:252 Resp: 1067

Ion Ratio Lower Upper

252 100

253 27.9 18.8 28.2

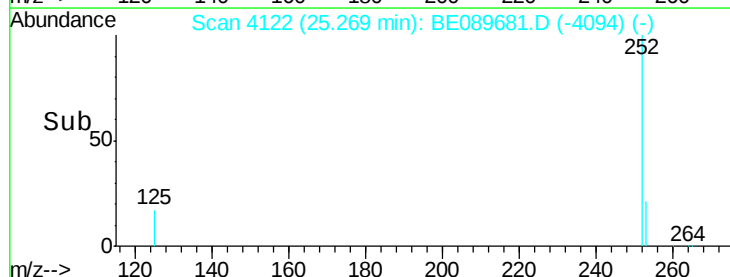
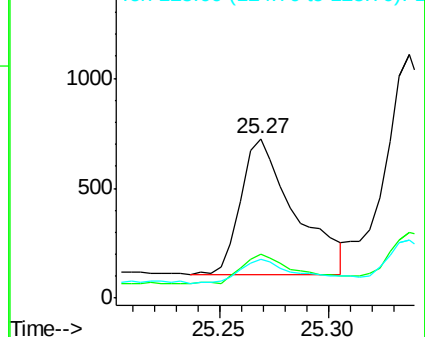
125 24.1 16.6 24.8



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





#29

Dibenzo(a,h)anthracene

Concen: 0.35 ng

RT: 26.77 min Scan# 4397

Delta R.T. -0.00 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

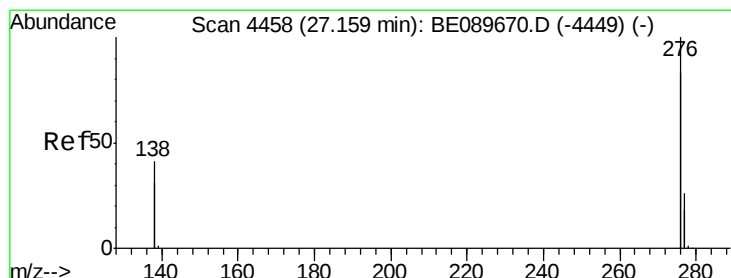
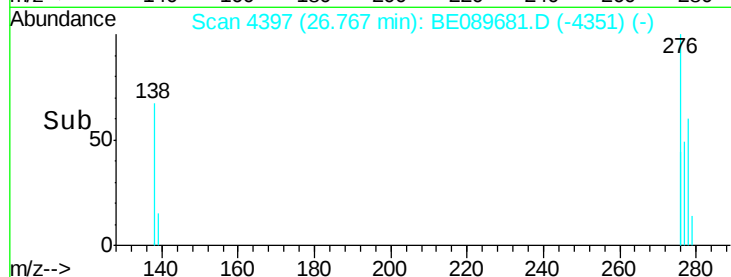
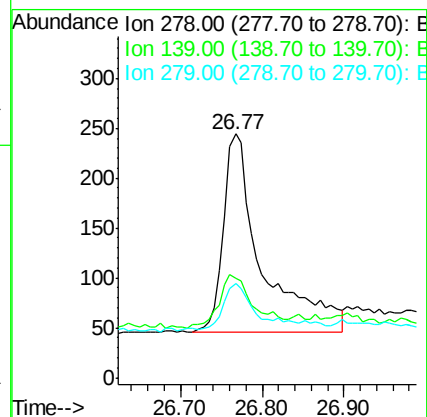
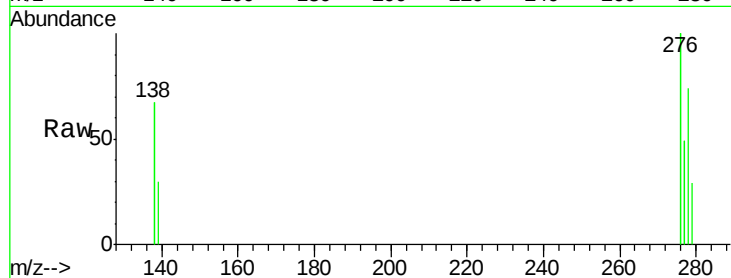
Tgt Ion: 278 Resp: 650

Ion Ratio Lower Upper

278 100

139 40.6 30.4 45.6

279 38.5 22.0 33.0#



#30

Benzo(g,h,i)perylene

Concen: 0.39 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089681.D

Acq: 24 Feb 2015 21:31

Tgt Ion: 276 Resp: 5892

Ion Ratio Lower Upper

276 100

277 31.4 21.0 31.6

138 44.7 33.0 49.4

