

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089636.D
 Acq On : 19 Feb 2015 13:58
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-S

Quant Time: Feb 20 01:06:14 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	35941	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	142635	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72449	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	143885	5.00	ng	0.00
19) Chrysene-d12	23.66	240	136856	5.00	ng	0.00
25) Perylene-d12	25.34	264	113032	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	68350	11.02	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	177033	9.12	ng	0.00
21) Terphenyl-d14	22.31	244	224440	11.41	ng	0.00

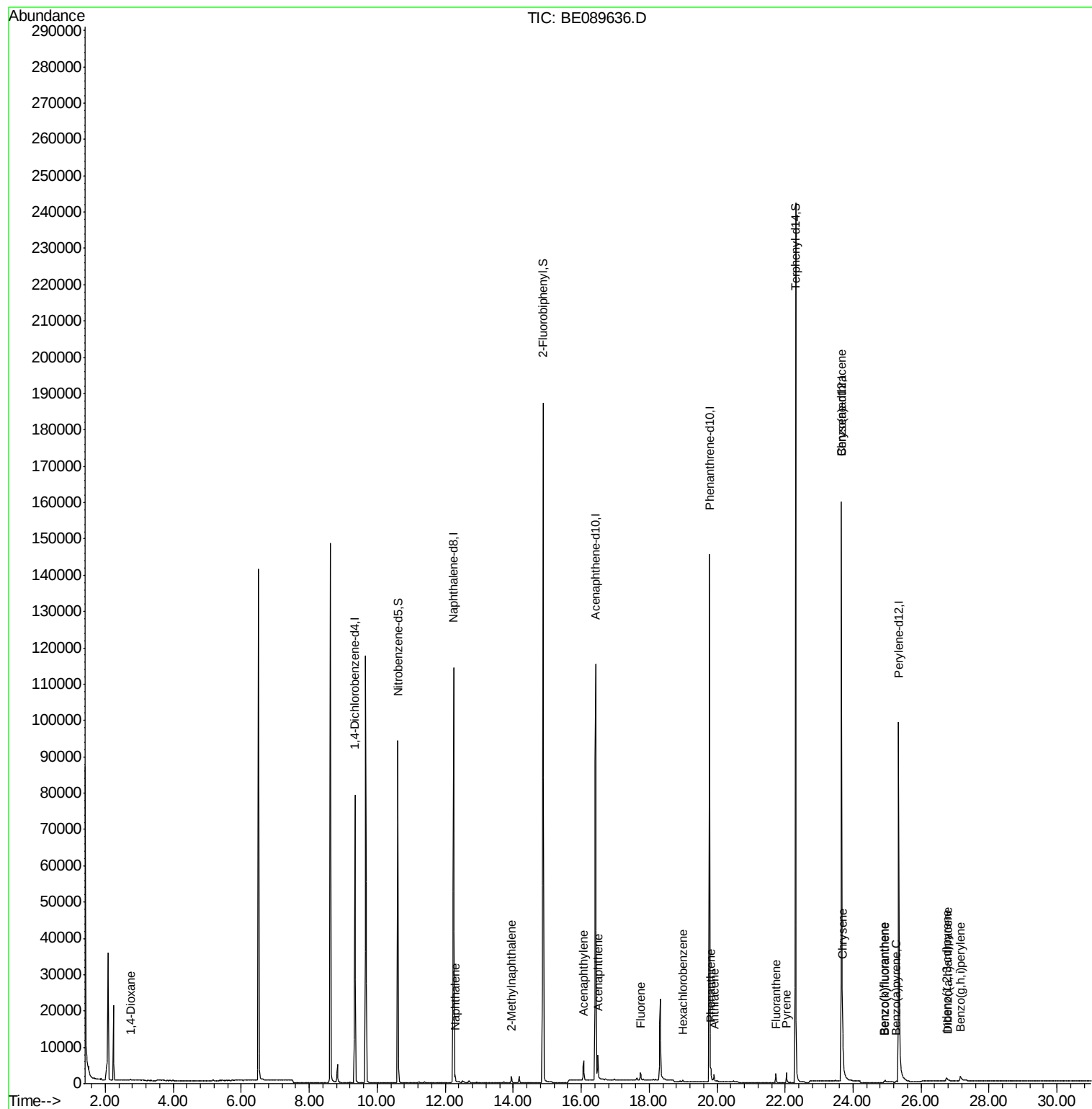
Target Compounds				Ovalue		
2) 1,4-Dioxane	2.74	88	315	0.07	ng	# 83
6) Naphthalene	12.29	128	2478	0.08	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1371	0.07	ng	97
10) Acenaphthylene	16.07	152	7357	0.06	ng	100
11) Acenaphthene	16.49	154	1341	0.07	ng	90
12) Fluorene	17.74	166	1598	0.07	ng	97
14) Hexachlorobenzene	19.00	284	496	0.08	ng	97
15) Pentachlorophenol	19.45	266	31	Below Cal	#	69
16) Phenanthrene	19.82	178	2700	0.08	ng	99
17) Anthracene	19.91	178	1898	0.06	ng	99
18) Fluoranthene	21.72	202	2173	0.06	ng	98
20) Pyrene	22.04	202	2278	0.07	ng	99
22) Benzo(a)anthracene	23.65	228	8827	0.07	ng	94
23) Chrysene	23.69	228	12066	0.09	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	2536	0.20	ng	95
26) Benzo(b)fluoranthene	24.91	252	575	0.29	ng	# 77
27) Benzo(k)fluoranthene	24.94	252	1328m	0.04	ng	
28) Benzo(a)pyrene	25.27	252	615	0.26	ng	# 75
29) Dibenzo(a,h)anthracene	26.77	278	439	0.25	ng	# 56
30) Benzo(g,h,i)perylene	27.16	276	3325	0.17	ng	# 69

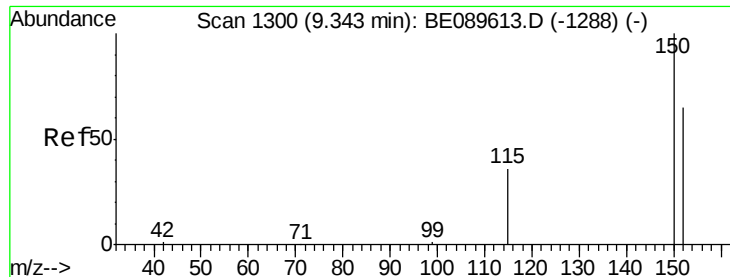
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

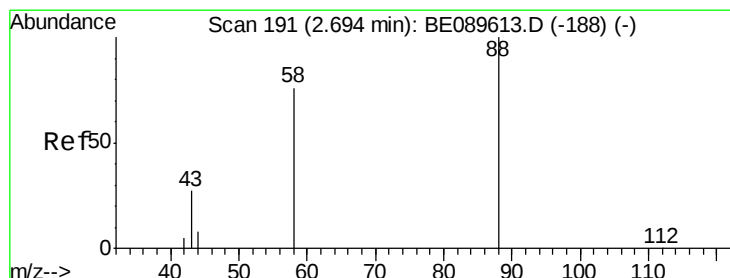
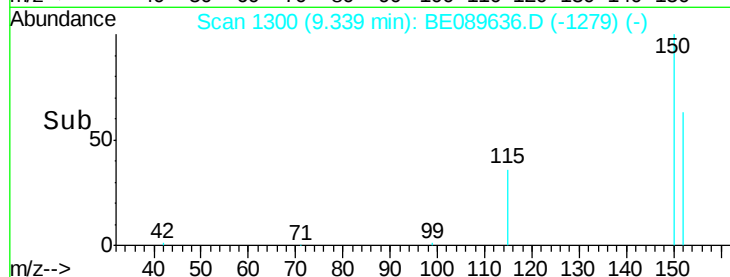
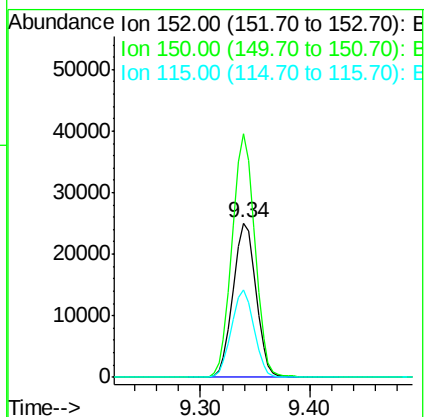
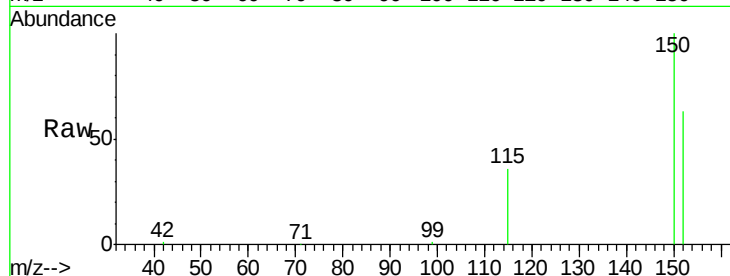
Tot Ion:152 Resp: 35941

Ion Ratio Lower Upper

152 100

150 157.7 122.4 183.6

115 56.9 44.2 66.2



#2

1,4-Dioxane

Concen: 0.07 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

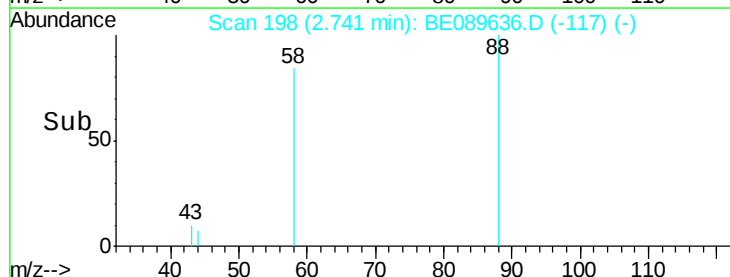
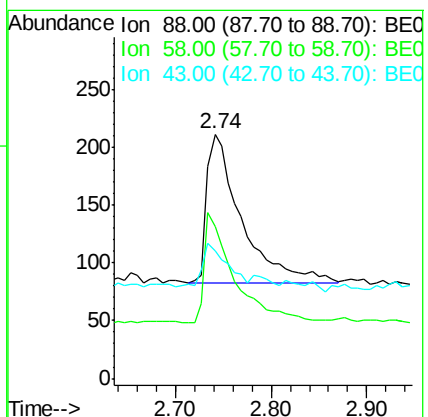
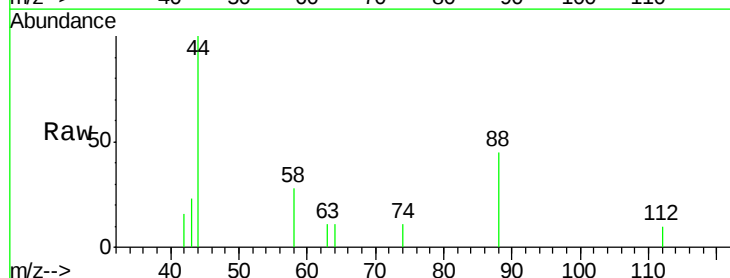
Tgt Ion: 88 Resp: 315

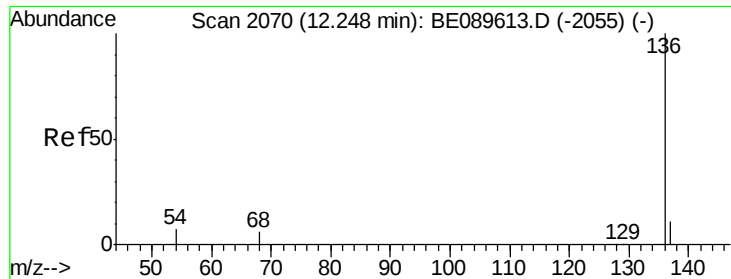
Ion Ratio Lower Upper

88 100

58 65.1 54.6 81.8

43 0.0 20.6 30.8#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.25 min Scan# 2071

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

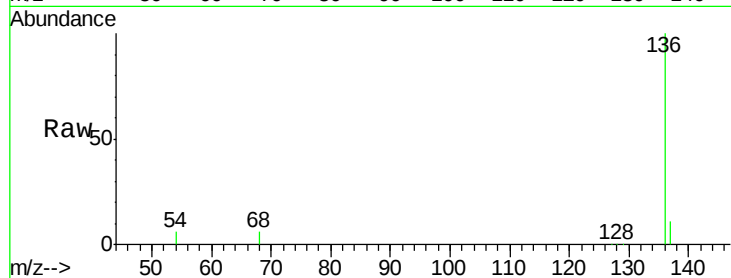
Tot Ion:136 Resp: 142635

Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

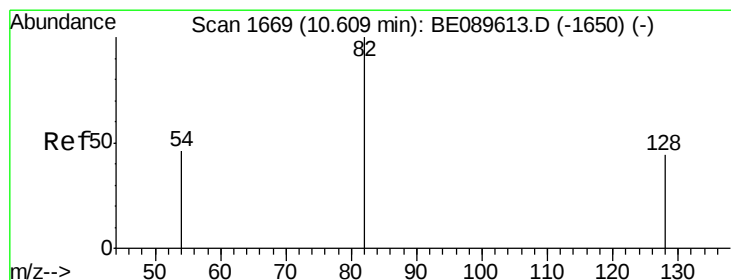
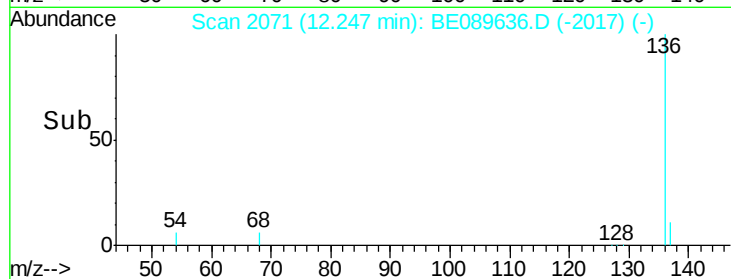
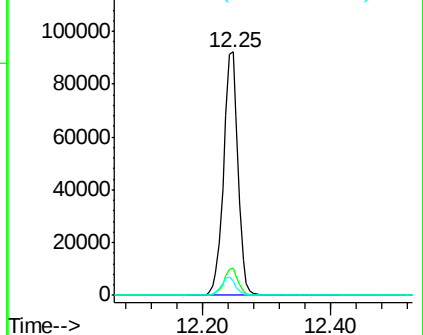
54 6.2 5.3 7.9



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



#5

Nitrobenzene-d5

Concen: 11.02 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

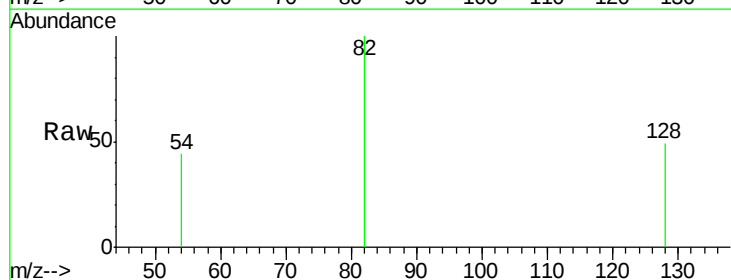
Tgt Ion: 82 Resp: 68350

Ion Ratio Lower Upper

82 100

128 49.0 35.5 53.3

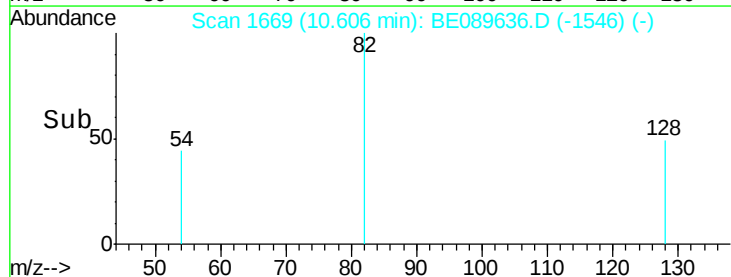
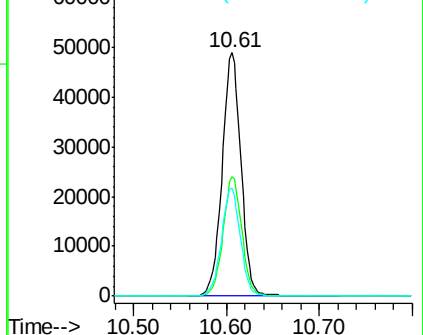
54 44.2 37.5 56.3

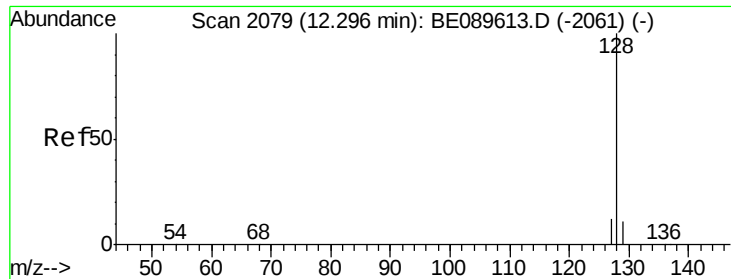


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.08 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

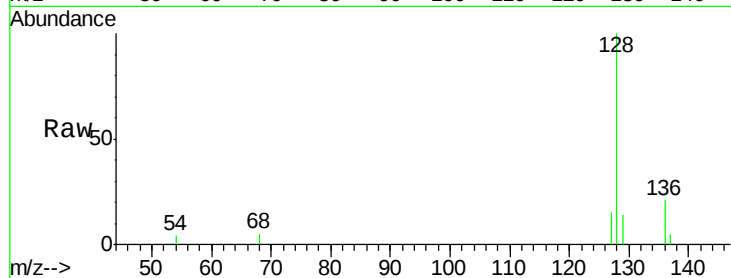
Tot Ion:128 Resp: 2478

Ion Ratio Lower Upper

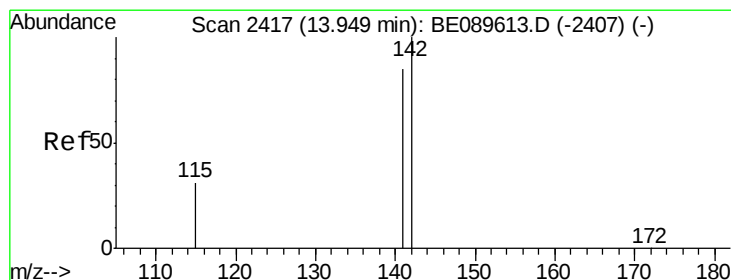
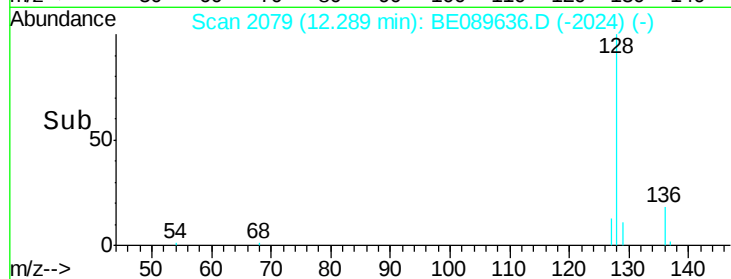
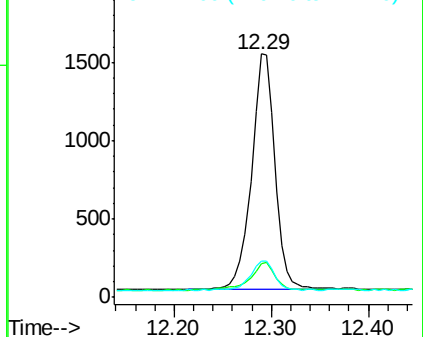
128 100

129 13.8 8.9 13.3#

127 15.1 9.8 14.8#



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



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

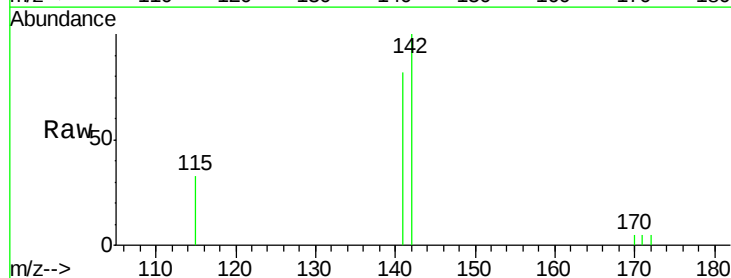
Tgt Ion:142 Resp: 1371

Ion Ratio Lower Upper

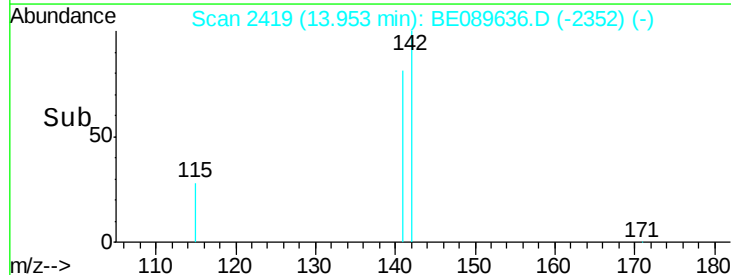
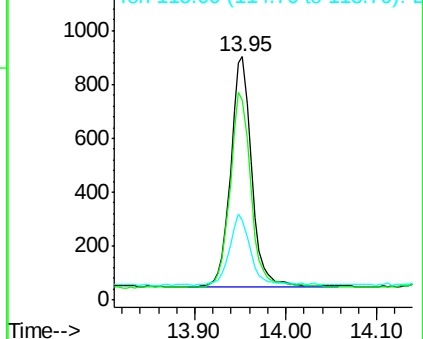
142 100

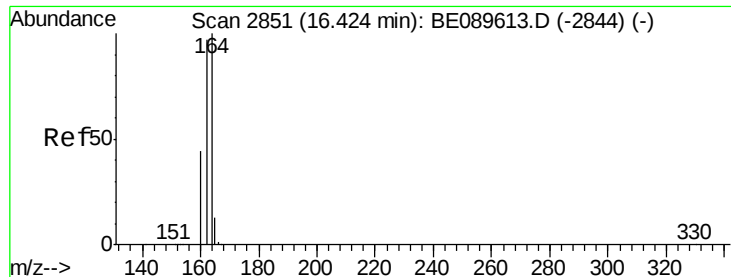
141 82.2 68.3 102.5

115 33.0 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# 2853

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

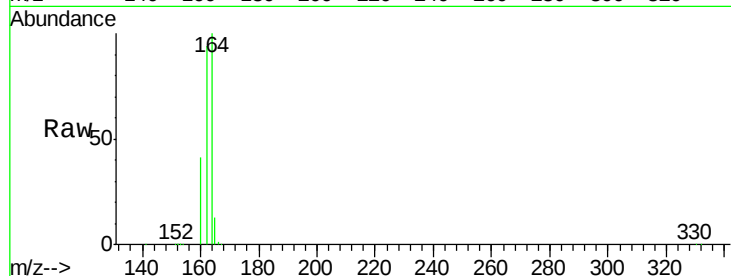
Tot Ion:164 Resp: 72449

Ion Ratio Lower Upper

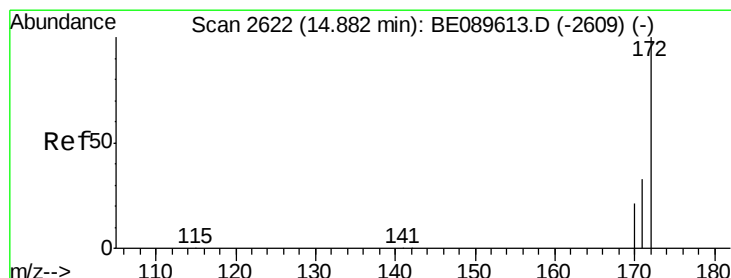
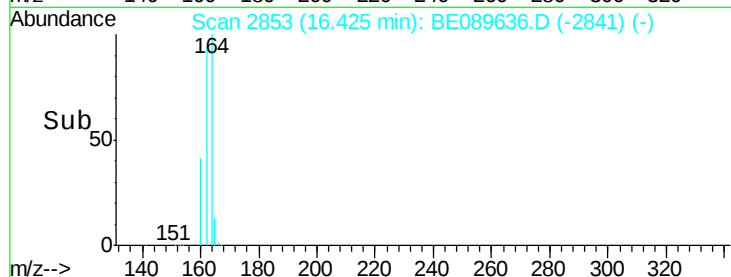
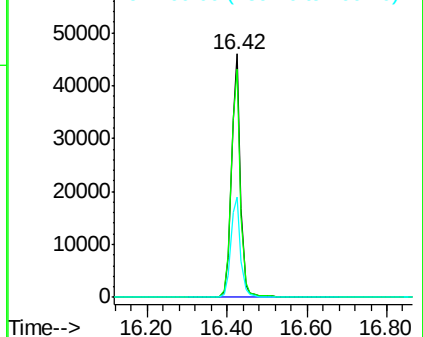
164 100

162 93.8 77.5 116.3

160 41.0 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: 9.12 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

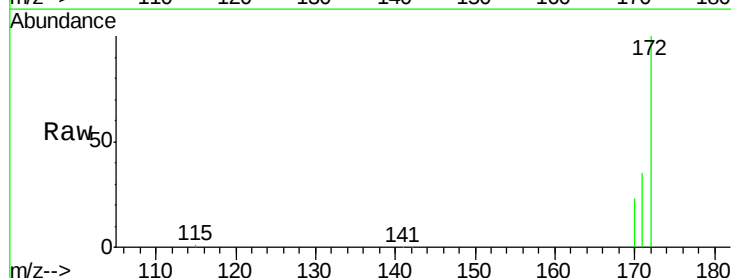
Tgt Ion:172 Resp: 177033

Ion Ratio Lower Upper

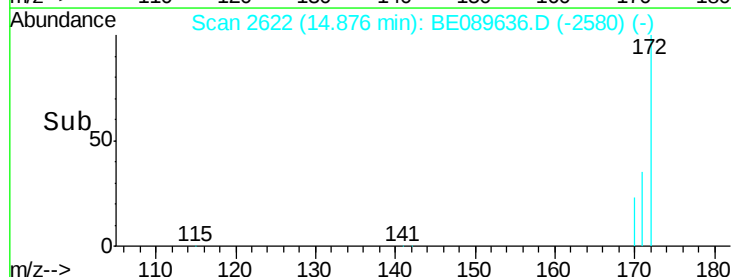
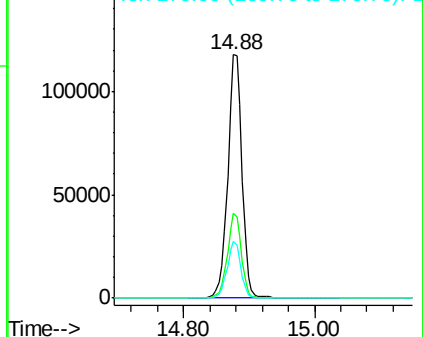
172 100

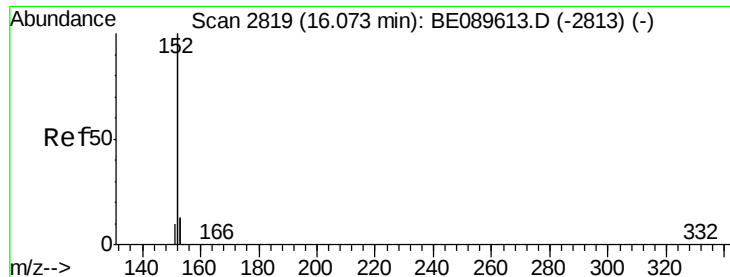
171 35.1 26.9 40.3

170 23.5 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: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

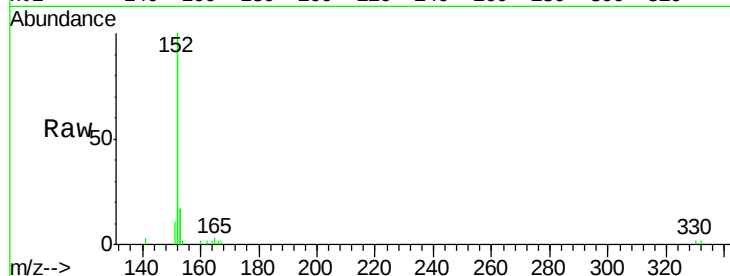
Tot Ion:152 Resp: 7357

Ion Ratio Lower Upper

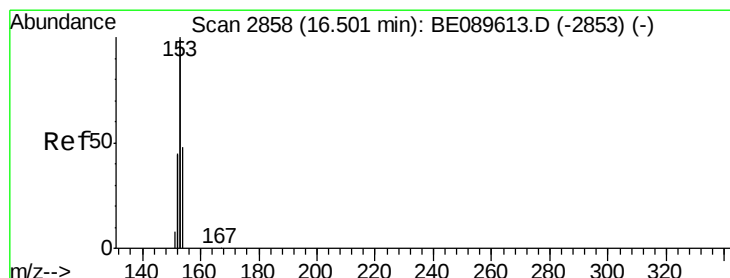
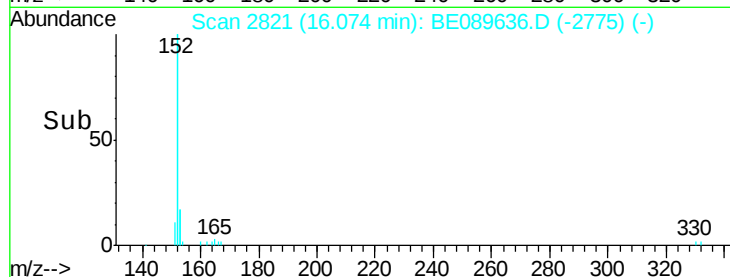
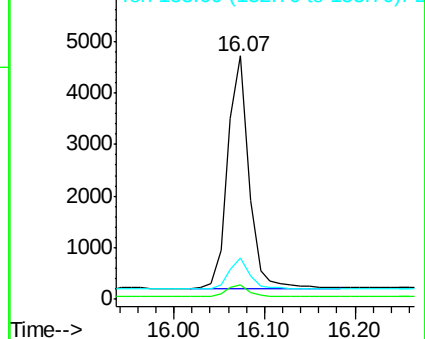
152 100

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: 0.07 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

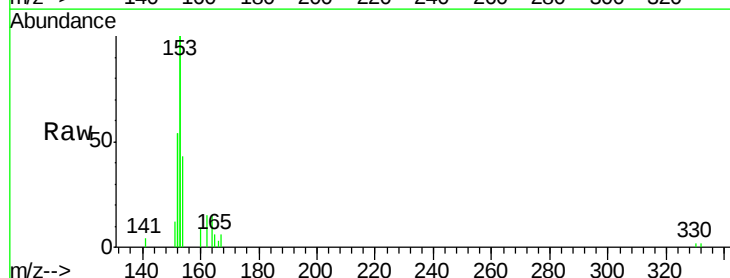
Tgt Ion:154 Resp: 1341

Ion Ratio Lower Upper

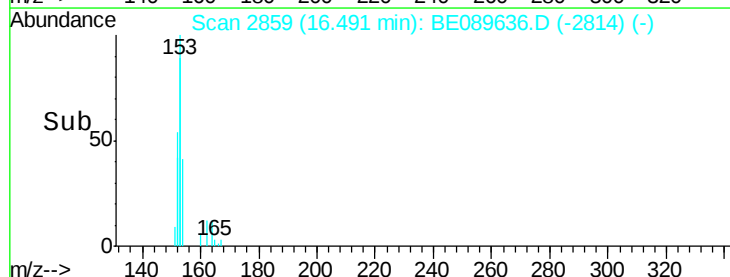
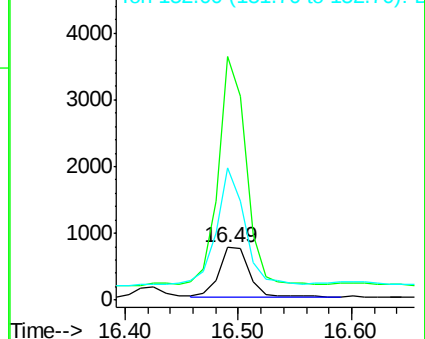
154 100

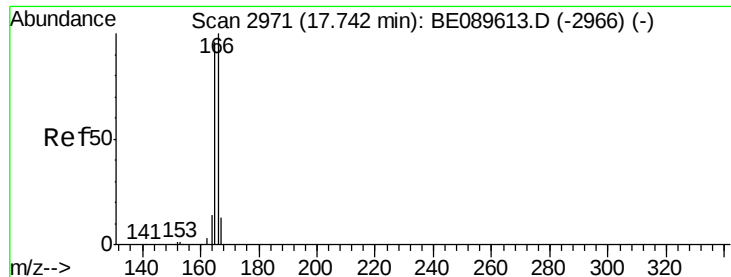
153 453.8 348.9 523.3

152 231.6 166.6 249.8



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: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

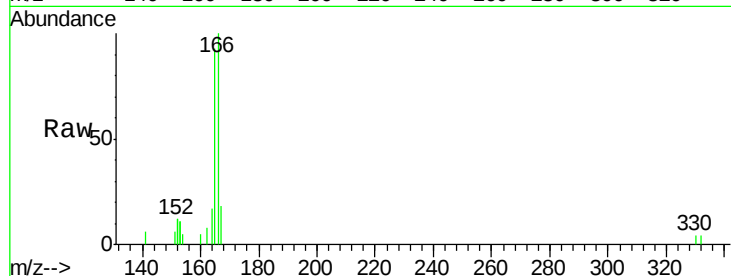
Tot Ion:166 Resp: 1598

Ion Ratio Lower Upper

166 100

165 90.0 74.7 112.1

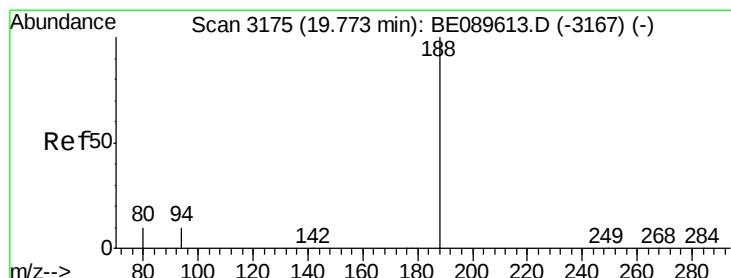
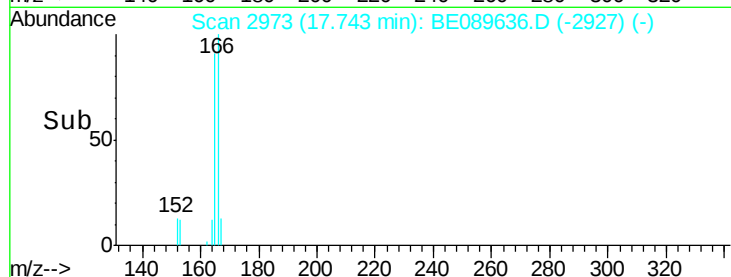
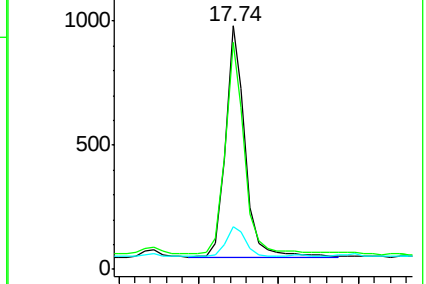
167 13.8 10.5 15.7



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# 3177

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

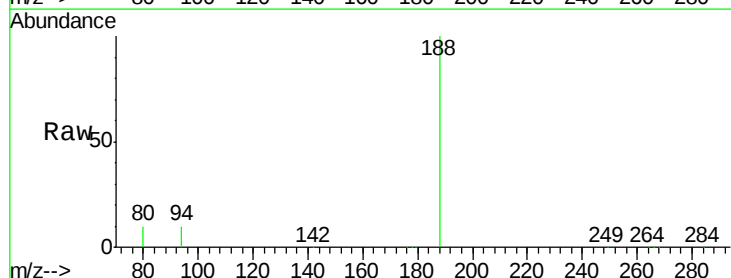
Tgt Ion:188 Resp: 143885

Ion Ratio Lower Upper

188 100

94 9.9 8.2 12.4

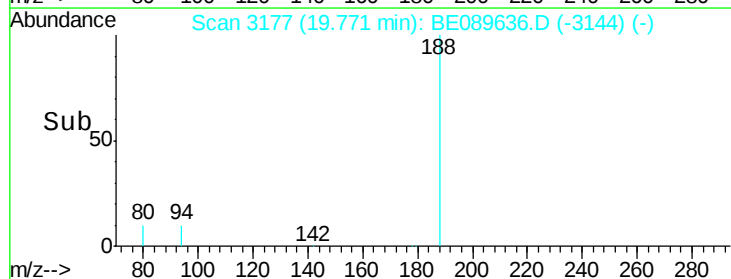
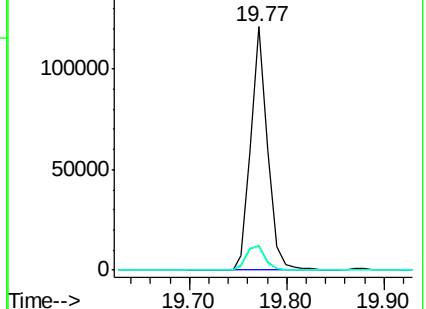
80 9.7 8.1 12.1

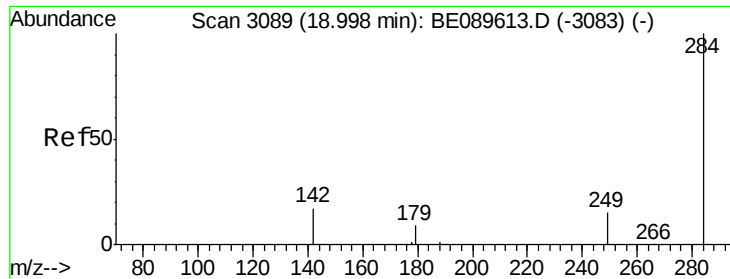


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

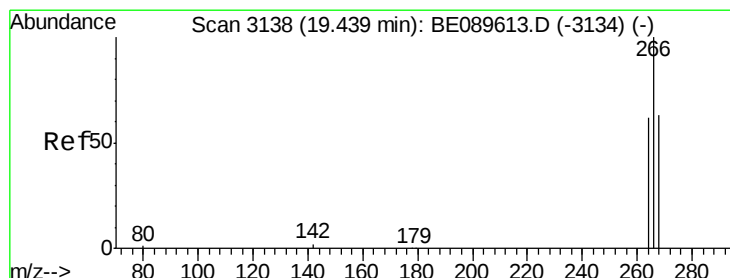
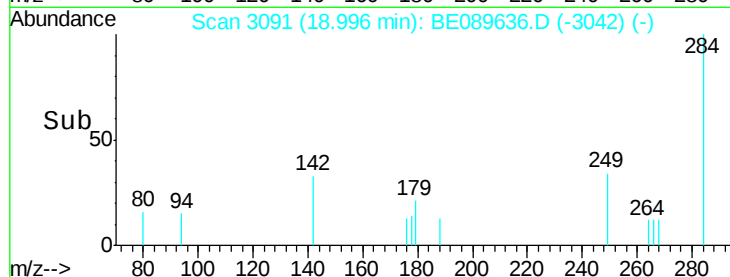
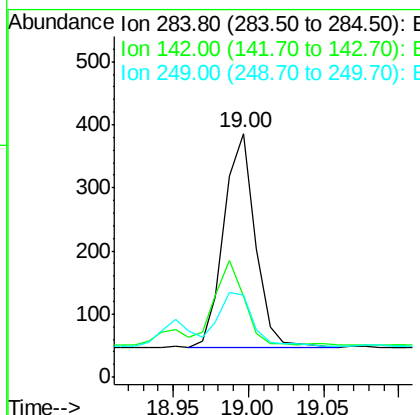
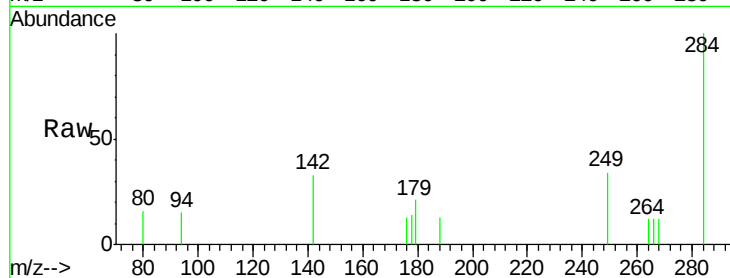




#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

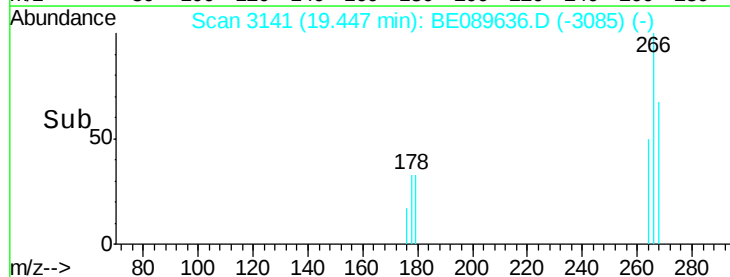
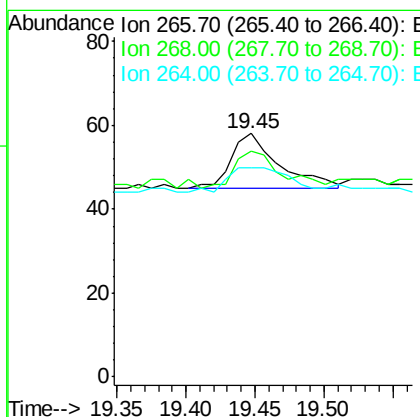
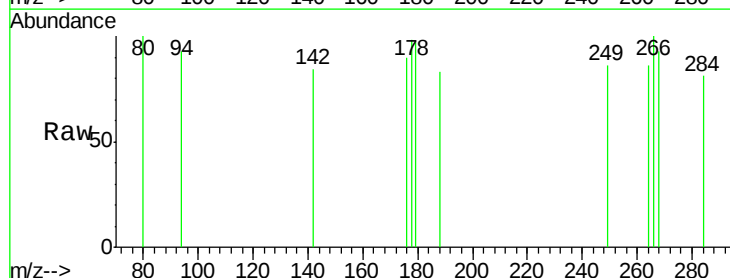
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

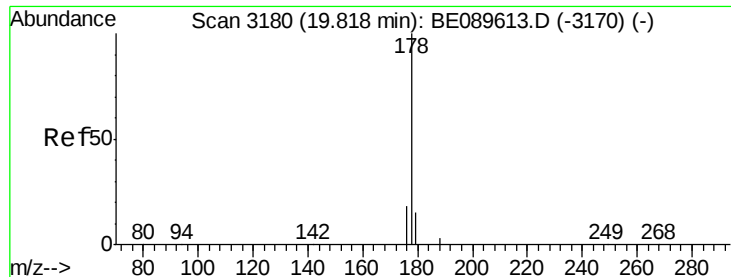
Tot Ion:284 Resp: 496
Ion Ratio Lower Upper
284 100
142 43.1 32.3 48.5
249 27.2 22.3 33.5



#15
Pentachlorophenol
Concen: Below Cal
RT: 19.45 min Scan# 3141
Delta R.T. 0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

Tgt Ion:266 Resp: 31
Ion Ratio Lower Upper
266 100
268 93.1 52.6 79.0#
264 86.2 51.8 77.8#





#16

Phenanthrene

Concen: 0.08 ng

RT: 19.82 min Scan# 3182

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

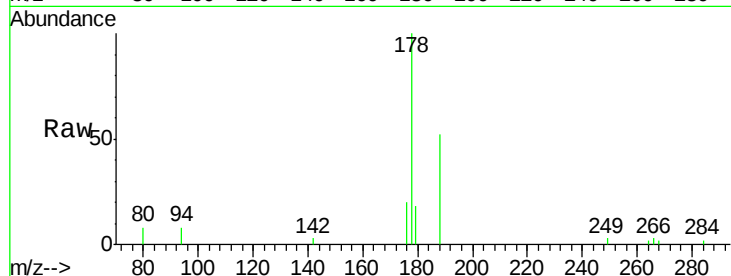
Tot Ion:178 Resp: 2700

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

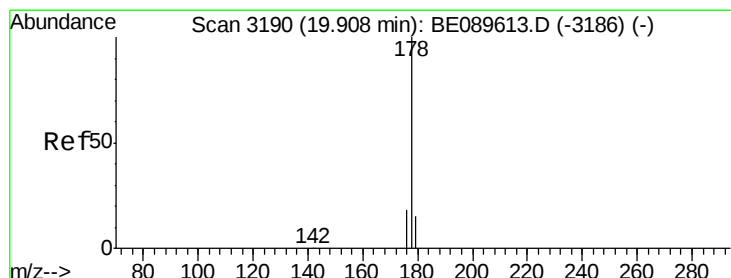
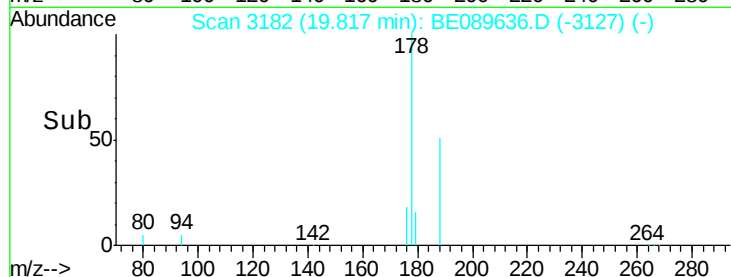
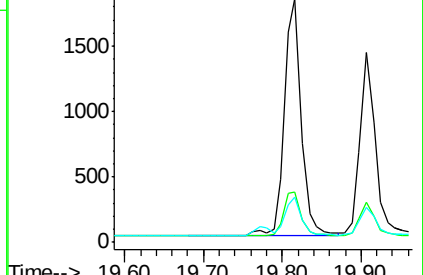
179 15.0 12.3 18.5



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: 0.06 ng

RT: 19.91 min Scan# 3192

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

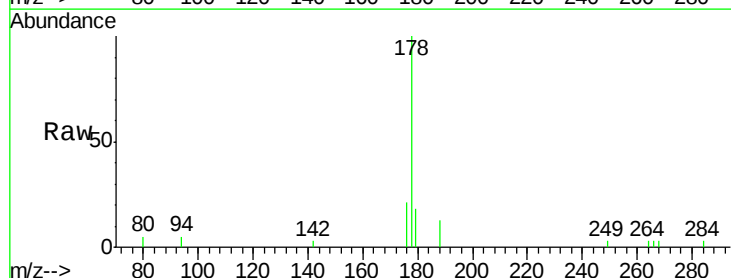
Tgt Ion:178 Resp: 1898

Ion Ratio Lower Upper

178 100

176 18.9 14.6 22.0

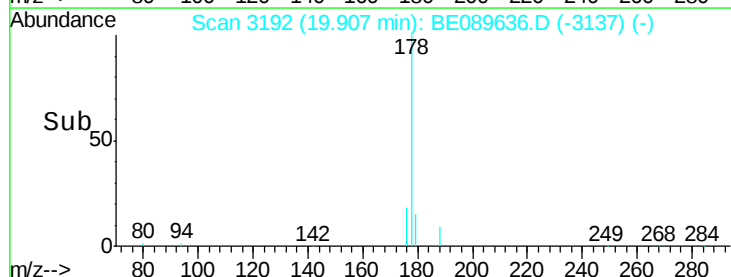
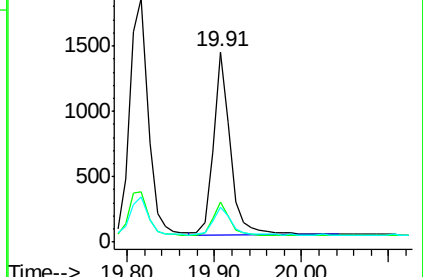
179 15.9 12.3 18.5

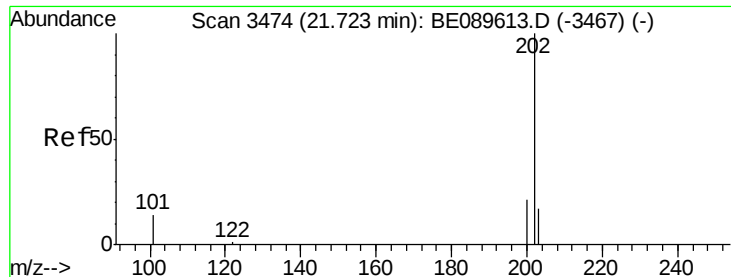


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#18

Fluoranthene

Concen: 0.06 ng

RT: 21.72 min Scan# 3477

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

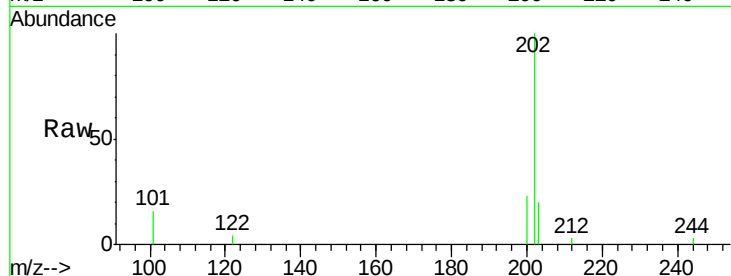
Tot Ion:202 Resp: 2173

Ion Ratio Lower Upper

202 100

101 12.5 10.4 15.6

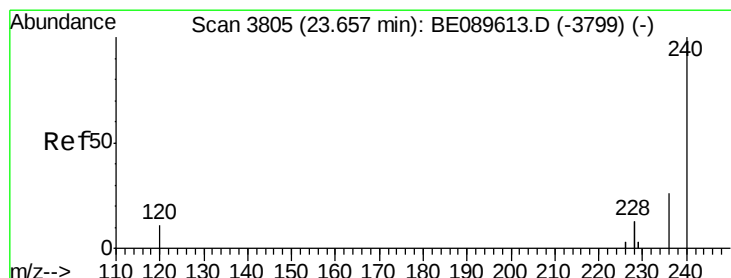
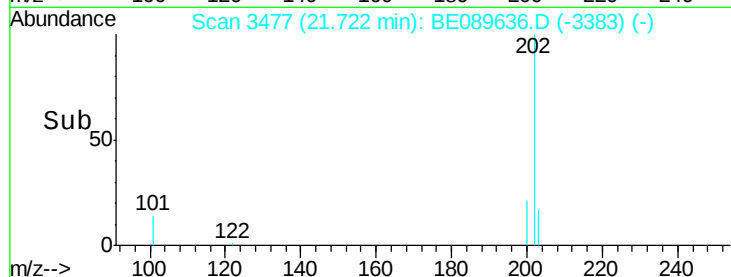
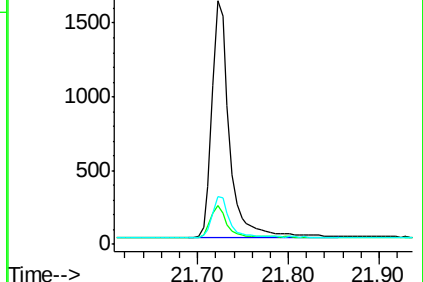
203 16.5 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

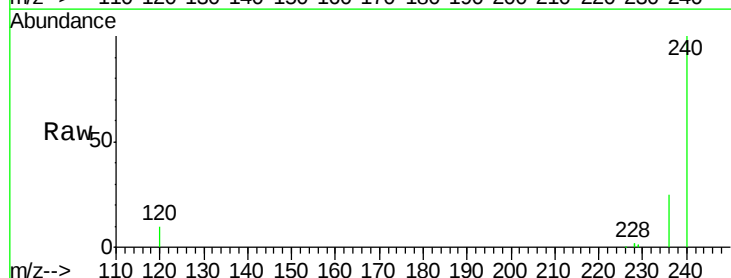
Tgt Ion:240 Resp: 136856

Ion Ratio Lower Upper

240 100

120 10.1 9.0 13.4

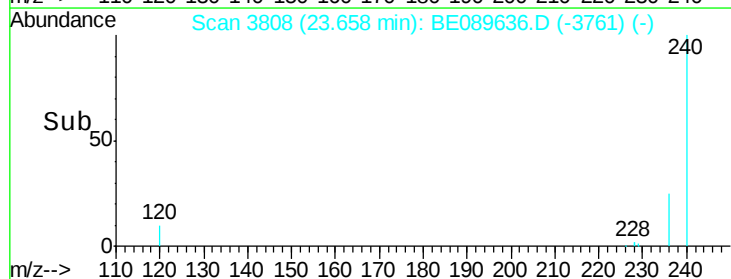
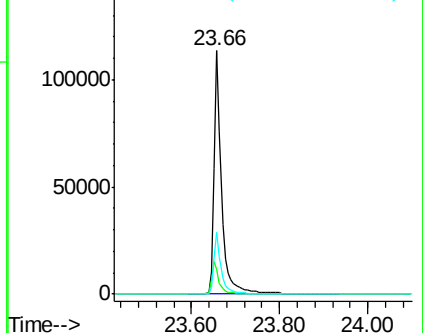
236 25.5 21.0 31.6

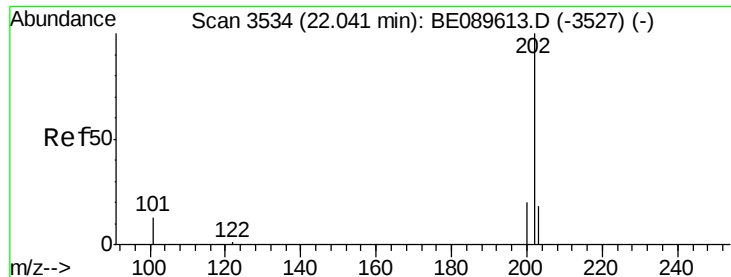


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#20

Pvrene

Concen: 0.07 ng

RT: 22.04 min Scan# 3537

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

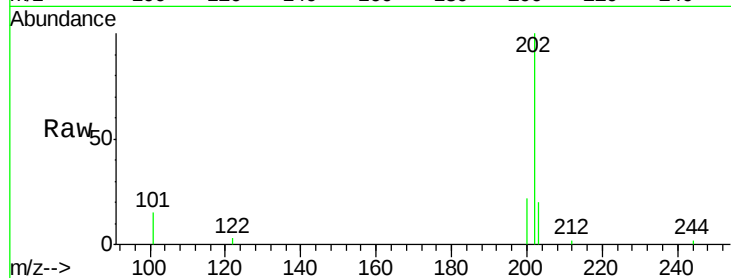
Tot Ion:202 Resp: 2278

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

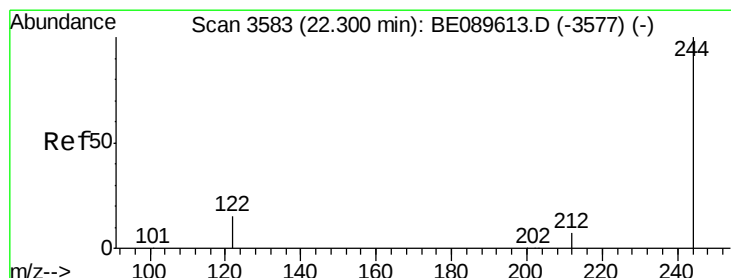
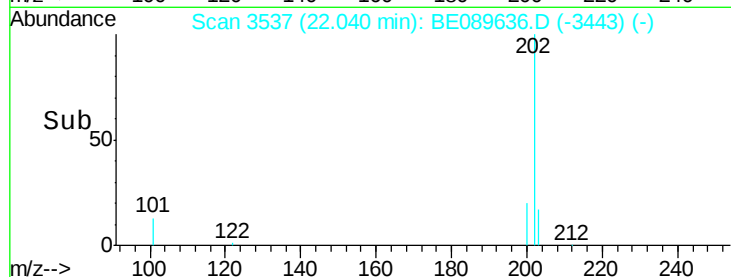
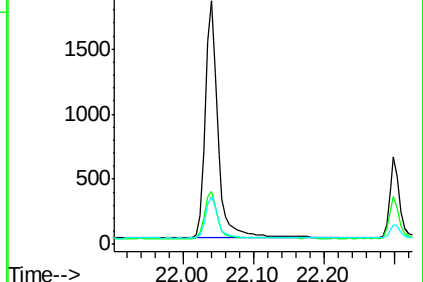
203 17.8 13.8 20.8



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: 11.41 ng

RT: 22.31 min Scan# 3587

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

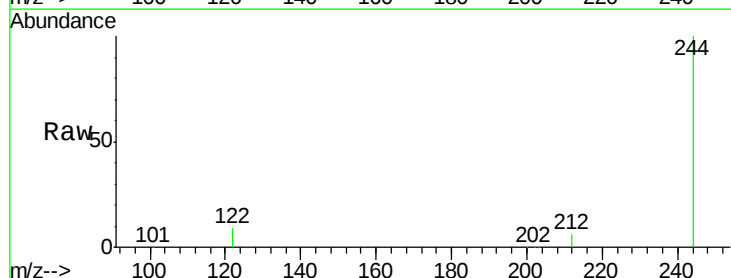
Tgt Ion:244 Resp: 224440

Ion Ratio Lower Upper

244 100

212 6.2 5.8 8.8

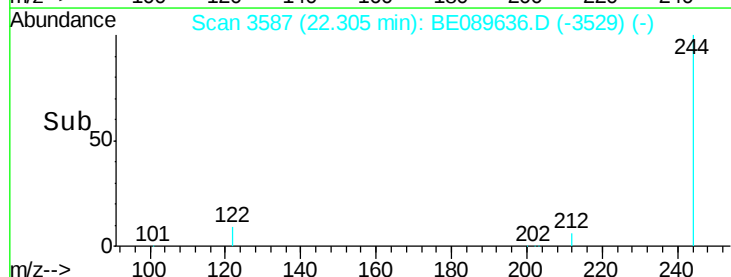
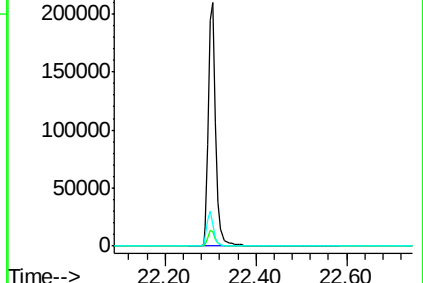
122 8.9 11.8 17.8#

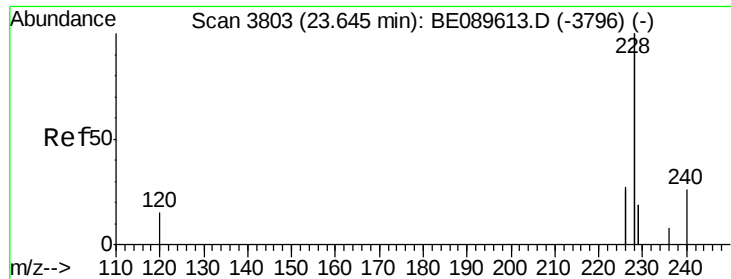


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#22

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

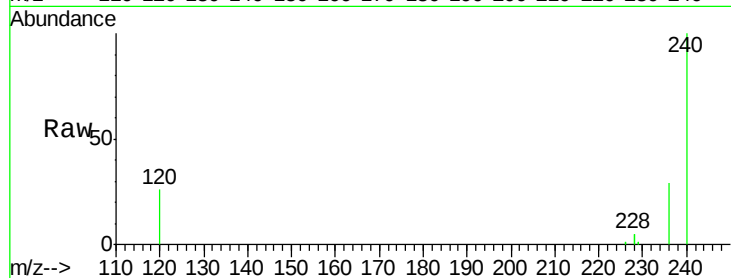
Tot Ion:228 Resp: 8827

Ion Ratio Lower Upper

228 100

226 24.5 21.2 31.8

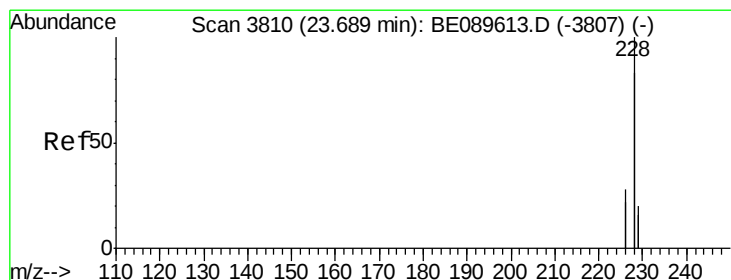
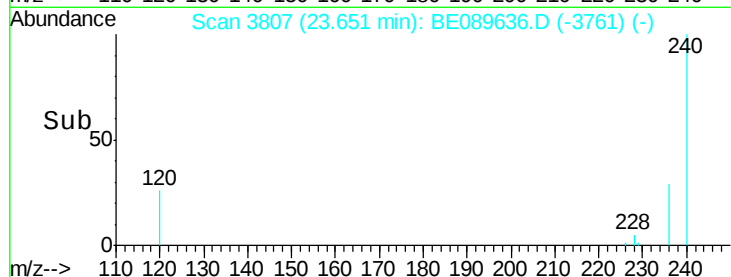
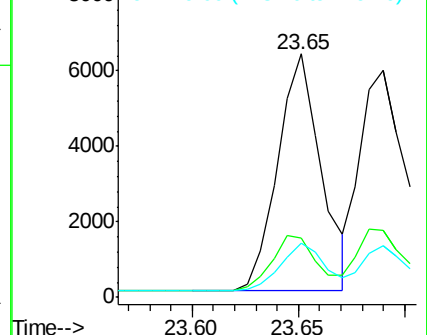
229 22.4 15.2 22.8



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



#23

Chrysene

Concen: 0.09 ng

RT: 23.69 min Scan# 3813

Delta R.T. 0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

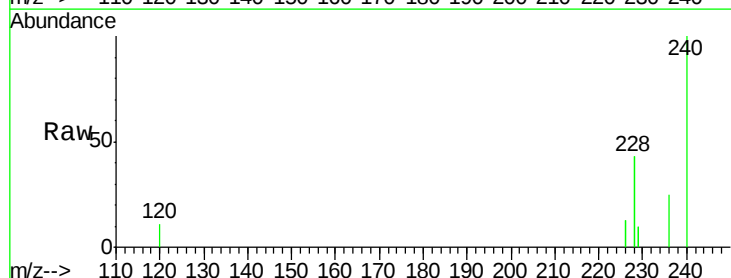
Tgt Ion:228 Resp: 12066

Ion Ratio Lower Upper

228 100

226 29.5 22.2 33.4

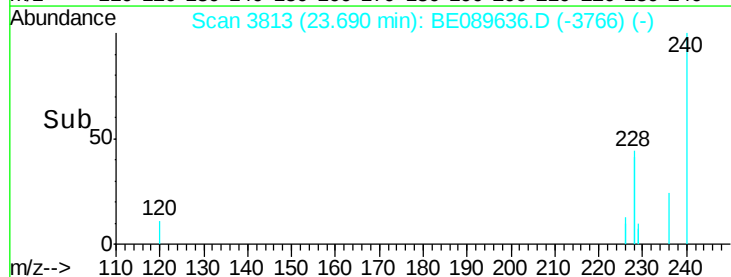
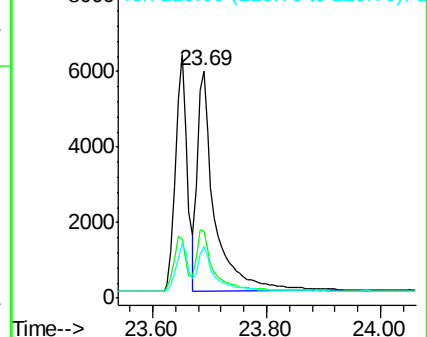
229 22.7 16.0 24.0

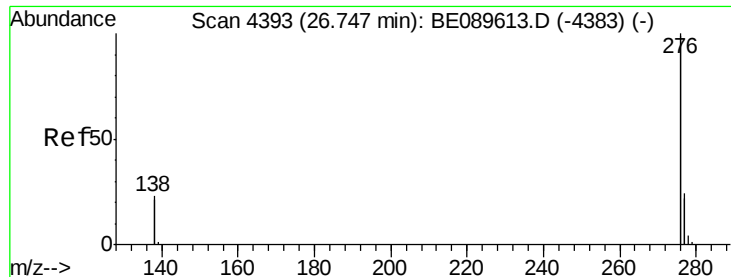


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

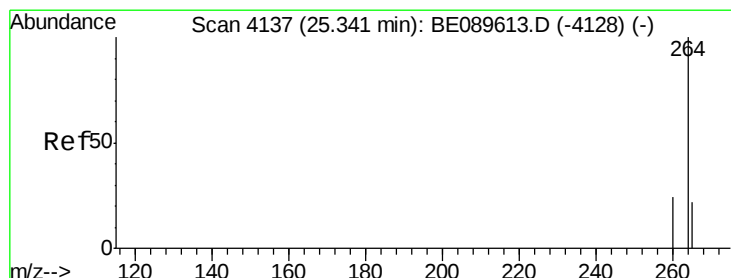
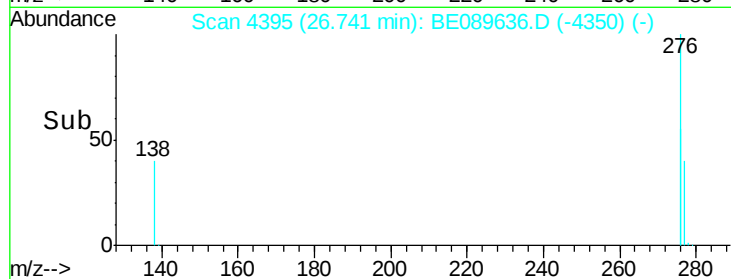
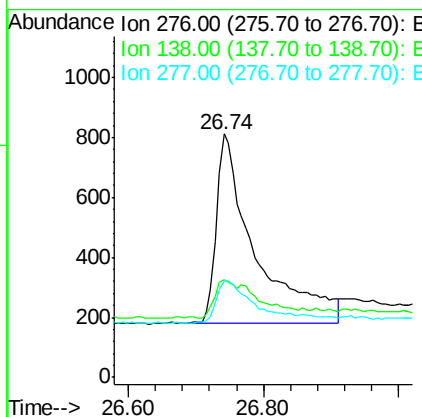
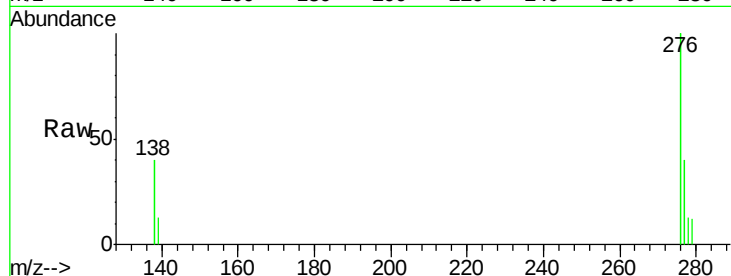




#24
Indeno(1,2,3-cd)pyrene
Concen: 0.20 ng
RT: 26.74 min Scan# 4395
Delta R.T. -0.01 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

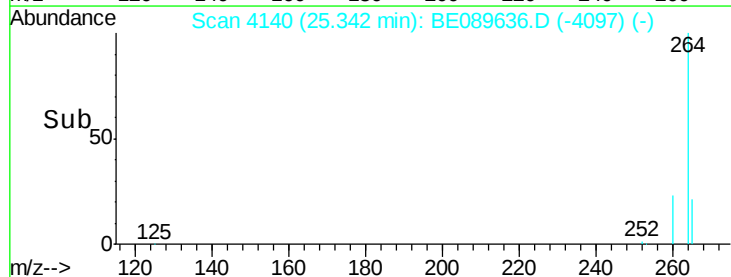
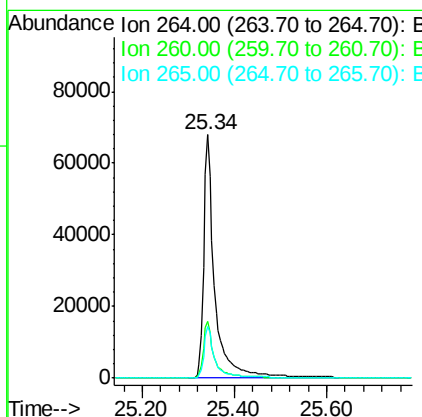
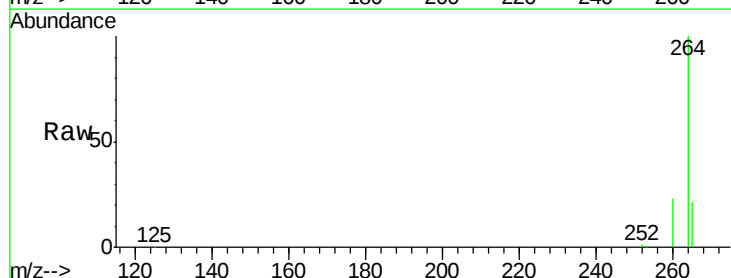
Instrument :
BNA_E
ClientSampleId :
MDL-05-S

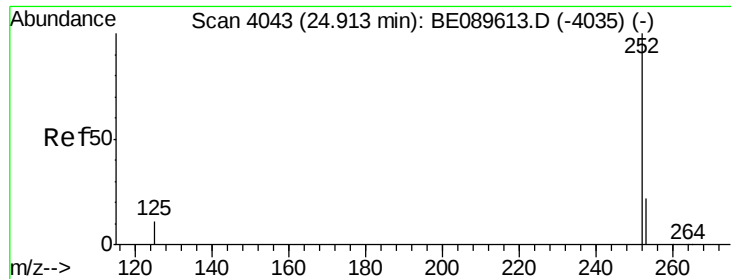
Tot Ion:276 Resp: 2536
Ion Ratio Lower Upper
276 100
138 22.3 21.4 32.2
277 24.4 19.9 29.9



#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. 0.00 min
Lab File: BE089636.D
Acq: 19 Feb 2015 13:58

Tgt Ion:264 Resp: 113032
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 21.5 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.29 ng

RT: 24.91 min Scan# 4045

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

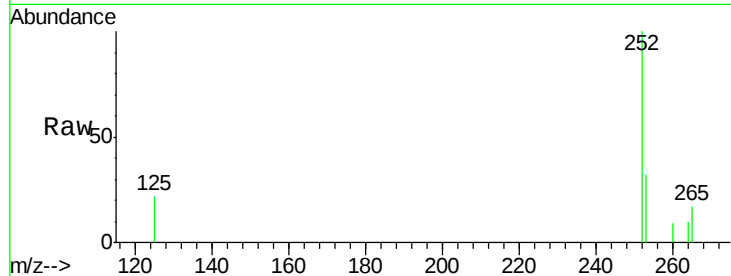
Tot Ion:252 Resp: 575

Ion Ratio Lower Upper

252 100

253 31.8 17.6 26.4#

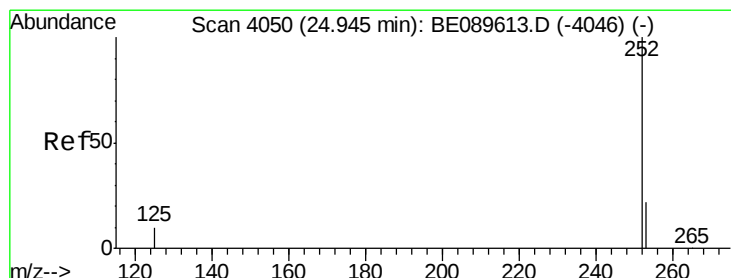
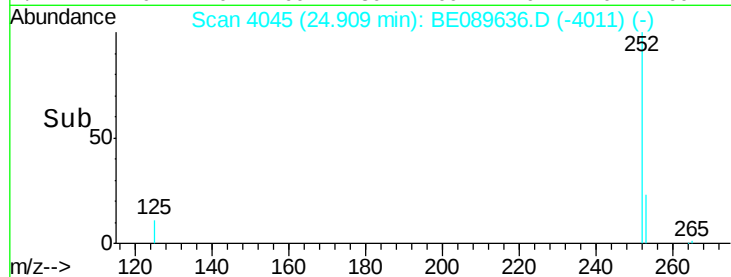
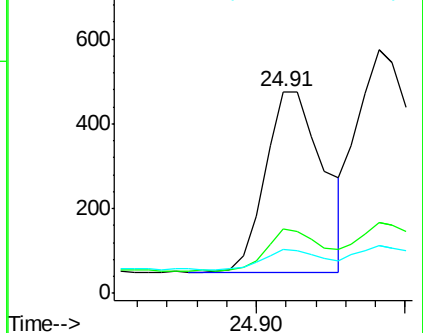
125 21.7 8.8 13.2#



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



#27

Benzo(k)fluoranthene

Concen: 0.04 ng m

RT: 24.94 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

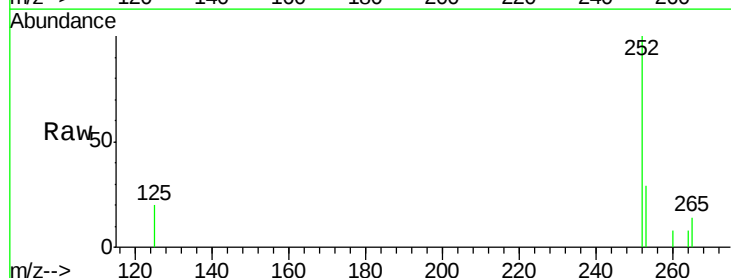
Tgt Ion:252 Resp: 1328

Ion Ratio Lower Upper

252 100

253 28.9 17.7 26.5#

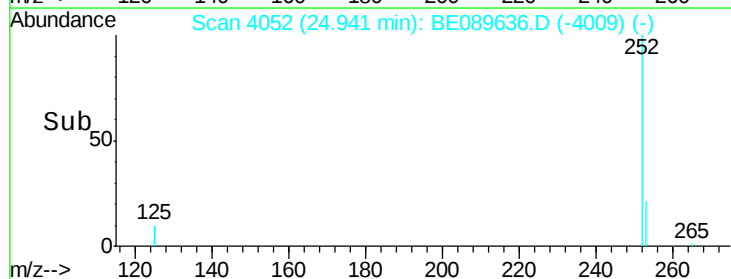
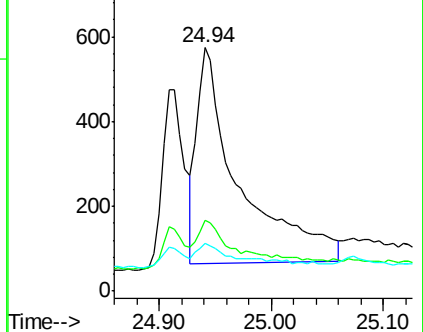
125 19.9 8.8 13.2#

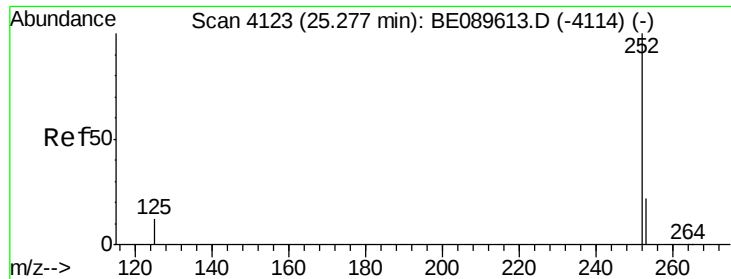


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

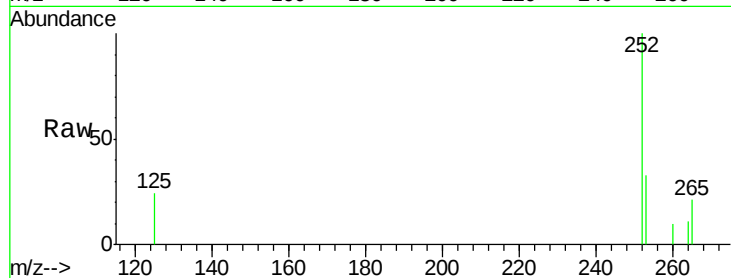
Tot Ion:252 Resp: 615

Ion Ratio Lower Upper

252 100

253 33.3 18.1 27.1#

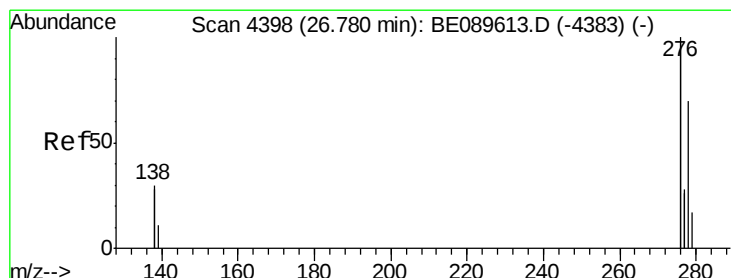
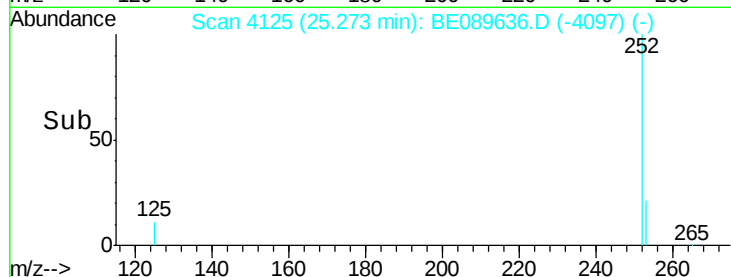
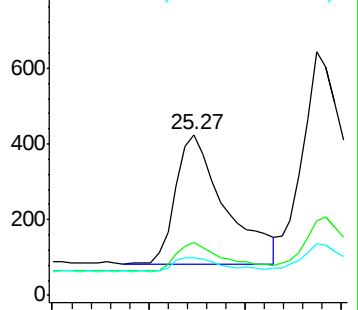
125 23.6 9.6 14.4#



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: 0.25 ng

RT: 26.77 min Scan# 4400

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

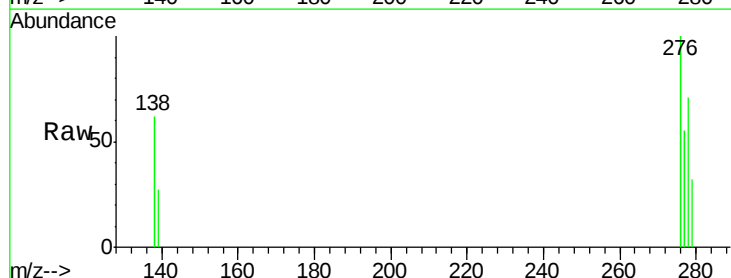
Tgt Ion:278 Resp: 439

Ion Ratio Lower Upper

278 100

139 38.4 13.7 20.5#

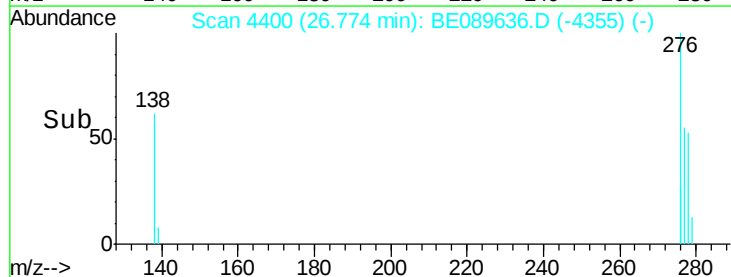
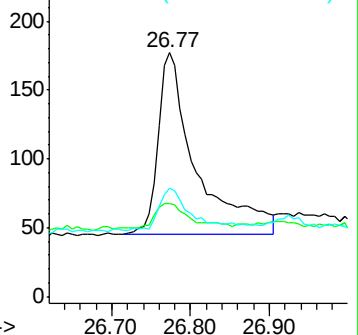
279 44.6 19.7 29.5#

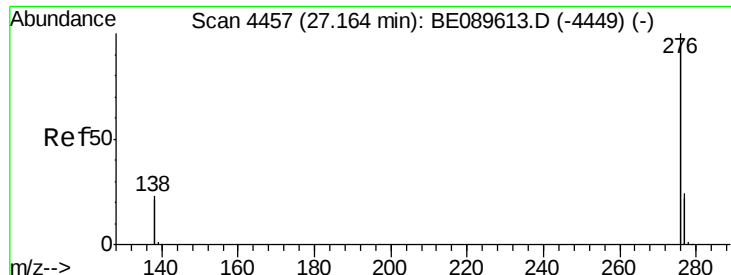


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 0.17 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.01 min

Lab File: BE089636.D

Acq: 19 Feb 2015 13:58

Instrument :

BNA_E

ClientSampleId :

MDL-05-S

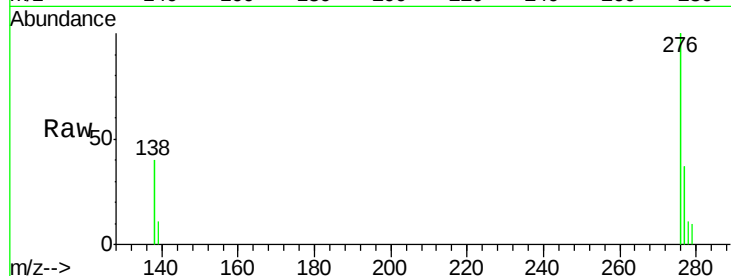
Tot Ion: 276 Resp: 3325

Ion Ratio Lower Upper

276 100

277 37.4 19.1 28.7#

138 40.4 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

