

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080515\
 Data File : BE090381.D
 Acq On : 6 Aug 2015 8:31
 Operator : TP/UM
 Sample : G3180-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 080415-D506-E-D-B

Quant Time: Aug 06 11:18:16 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE080515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 06 02:22:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	21325	5.00	ng	0.00
6) Naphthalene-d8	10.34	136	96329	5.00	ng	0.00
12) Acenaphthene-d10	14.20	164	67625	5.00	ng	0.00
18) Phenanthrene-d10	16.94	188	139867	5.00	ng	0.00
25) Chrysene-d12	21.10	240	159206	5.00	ng	0.00
32) Perylene-d12	23.40	264	144855	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.22	112	8762	2.37	ng	0.00
5) Phenol-d6	6.77	99	7812	1.34	ng	0.00
7) Nitrobenzene-d5	8.73	82	25087	3.27	ng	0.00
13) 2,4,6-Tribromophenol	15.69	330	10272	5.75	ng	-0.02
14) 2-Fluorobiphenyl	12.82	172	68071	3.66	ng	0.00
27) Terphenyl-d14	19.55	244	137338	5.86	ng	-0.01

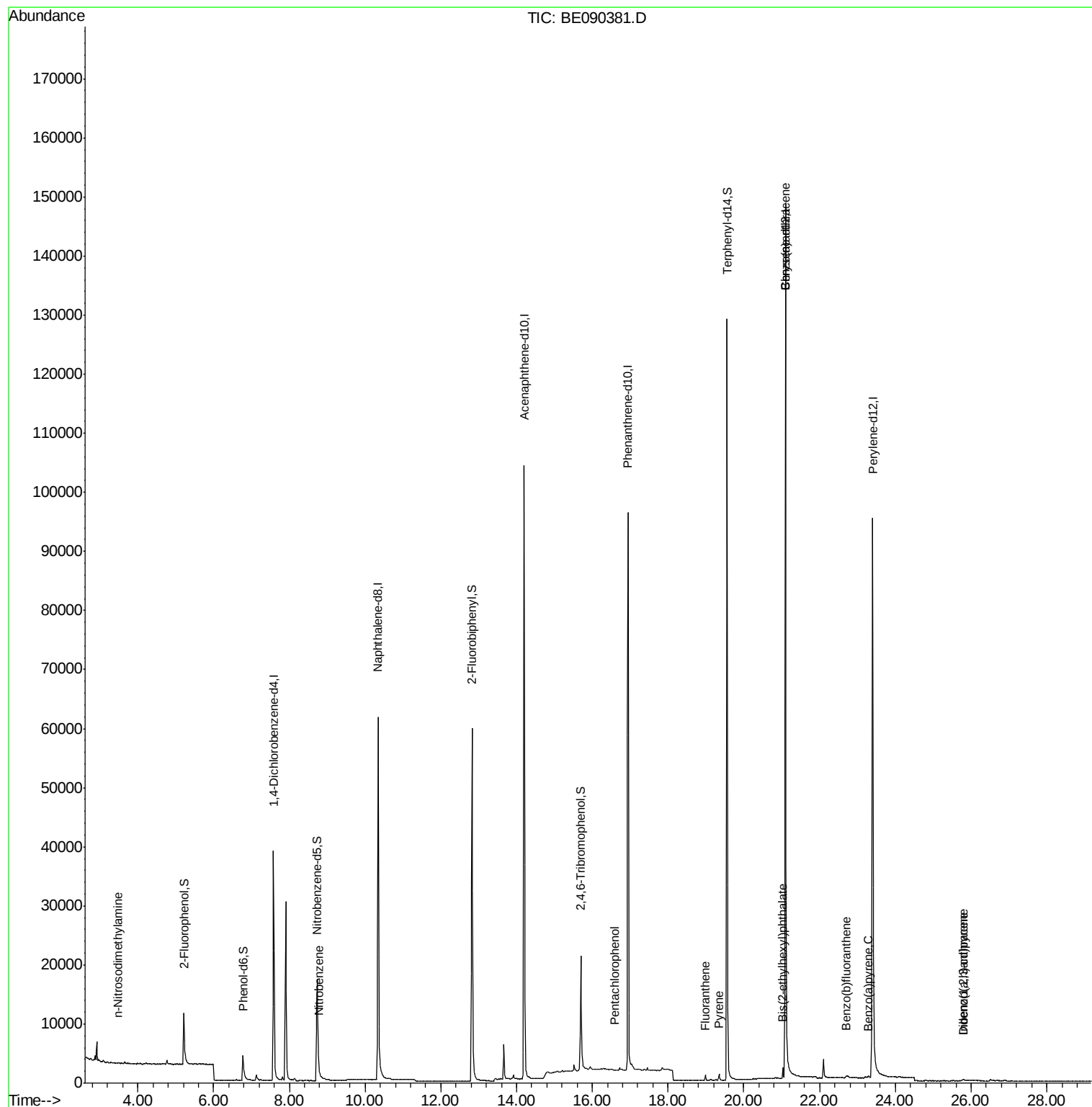
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.16	88	47	Below Cal	#	15
3) n-Nitrosodimethylamine	3.47	42	84	0.03	ng	10
8) Nitrobenzene	8.78	77	10	0.21	ng	50
10) Hexachlorobutadiene	10.68	225	13	Below Cal	#	53
21) Pentachlorophenol	16.60	266	28	0.10	ng	63
24) Fluoranthene	18.99	202	986	0.03	ng	92
26) Pyrene	19.35	202	1163	0.03	ng	92
28) Benzo(a)anthracene	21.09	228	1205	0.03	ng	74
30) Bis(2-ethylhexyl)phthalate	21.03	149	1710	0.31	ng	96
31) Indeno(1,2,3-cd)pyrene	25.79	276	491	0.27	ng	67
33) Benzo(b)fluoranthene	22.71	252	721	0.21	ng	24
35) Benzo(a)pyrene	23.30	252	481	0.24	ng	10
36) Dibenzo(a,h)anthracene	25.80	278	142	0.29	ng	1

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.59 min Scan# 846

Delta R.T. -0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

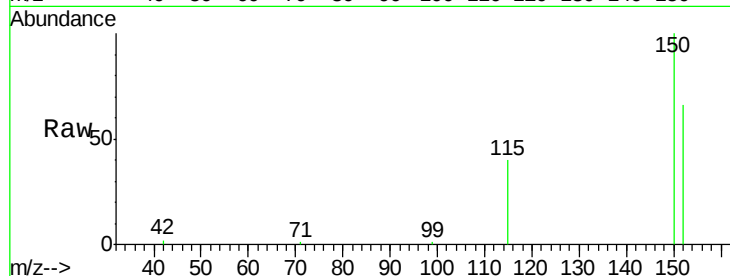
Tgt Ion: 152 Resp: 21325

Ion Ratio Lower Upper

152 100

150 151.2 123.0 184.4

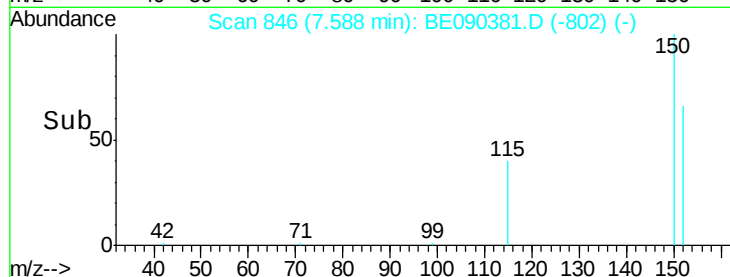
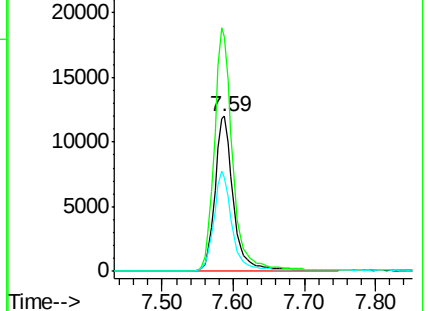
115 60.4 48.9 73.3



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: Below Cal

RT: 3.16 min Scan# 83

Delta R.T. -0.03 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

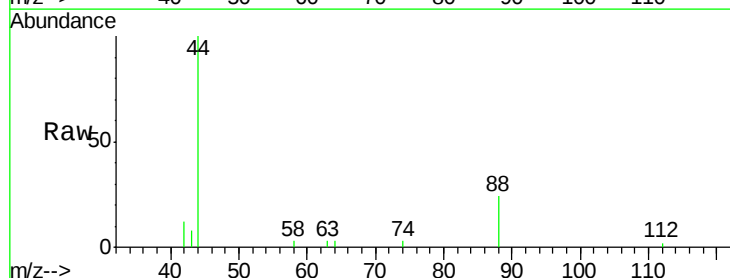
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

58 0.0 70.0 105.0#

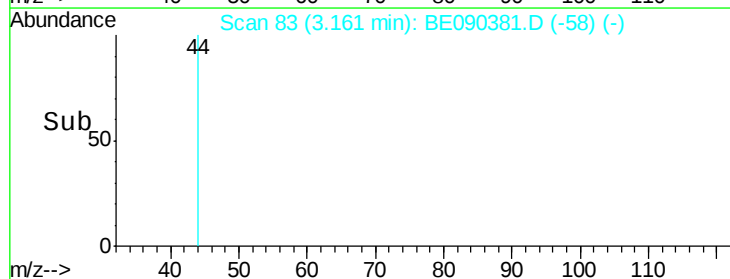
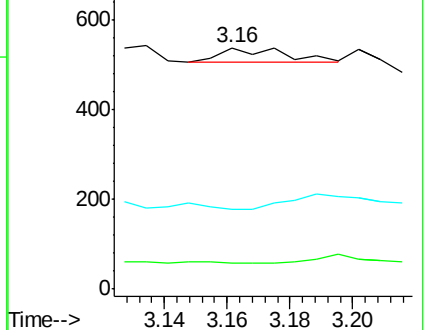
43 0.0 28.4 42.6#



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: 0.03 ng

RT: 3.47 min Scan# 129

Delta R.T. -0.02 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

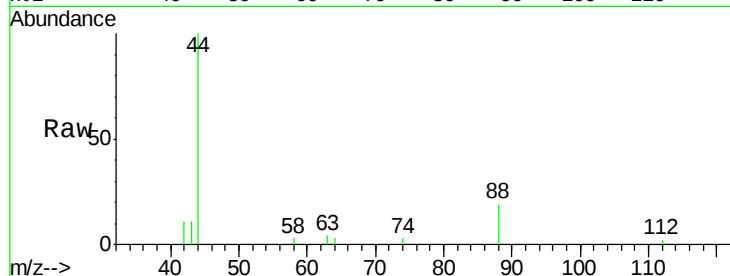
Tgt Ion: 42 Resp: 84

Ion Ratio Lower Upper

42 100

74 0.0 75.2 112.8#

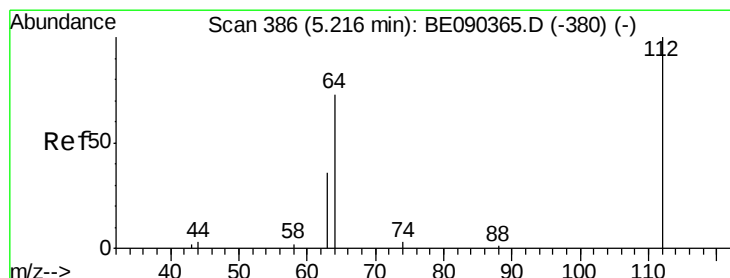
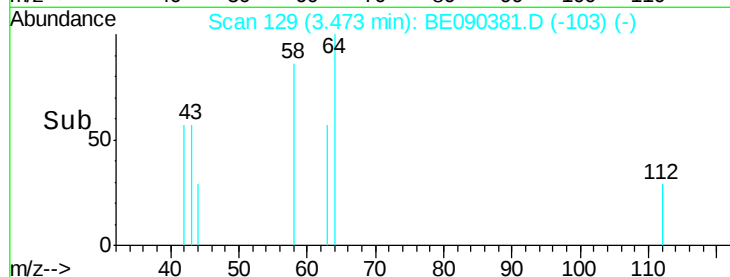
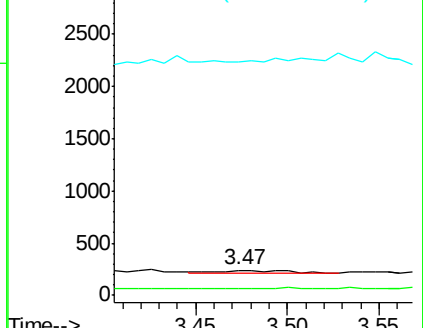
44 0.0 8.7 13.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 2.37 ng

RT: 5.22 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

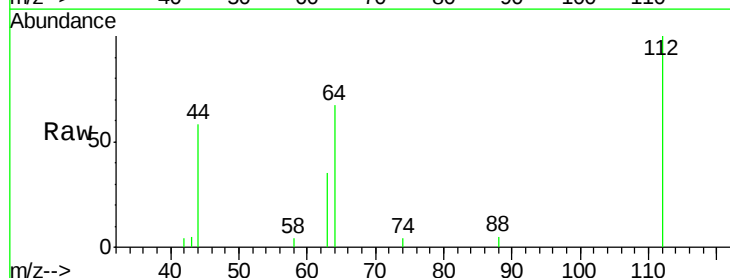
Tgt Ion: 112 Resp: 8762

Ion Ratio Lower Upper

112 100

64 71.3 37.1 55.7#

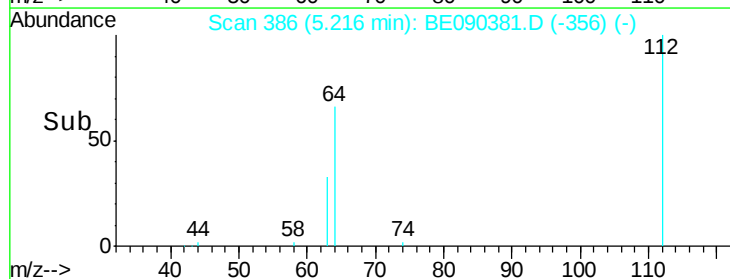
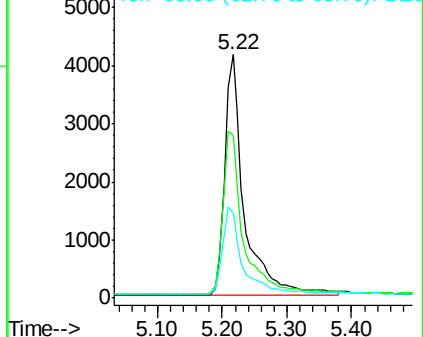
63 37.9 19.5 29.3#

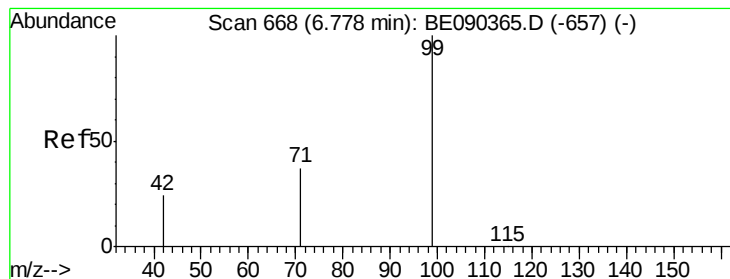


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.34 ng

RT: 6.77 min Scan# 667

Delta R.T. -0.01 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

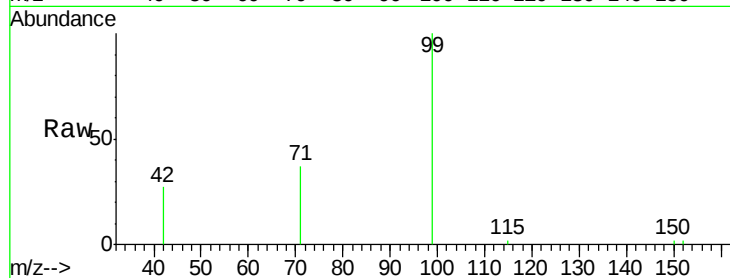
Tgt Ion: 99 Resp: 7812

Ion Ratio Lower Upper

99 100

42 23.0 18.2 27.4

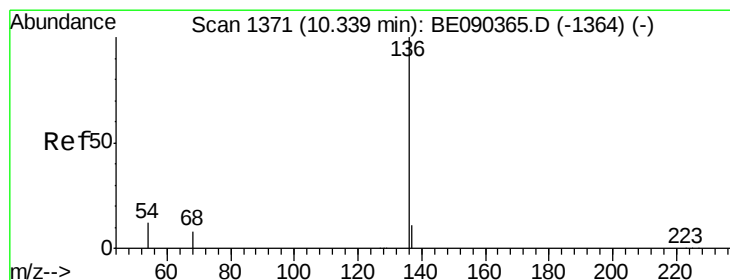
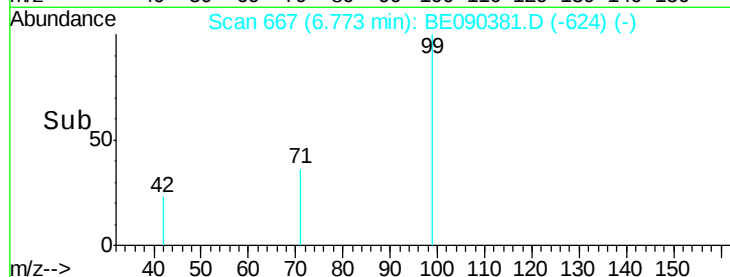
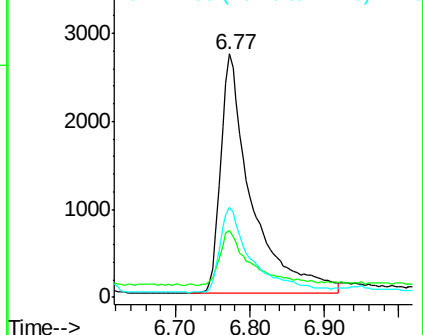
71 37.0 27.4 41.0



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Tgt Ion: 136 Resp: 96329

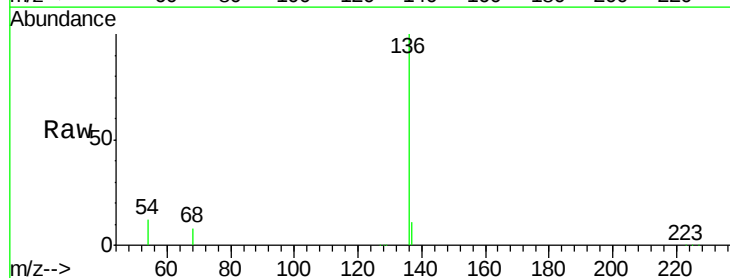
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 11.6 9.4 14.0

68 8.4 6.5 9.7

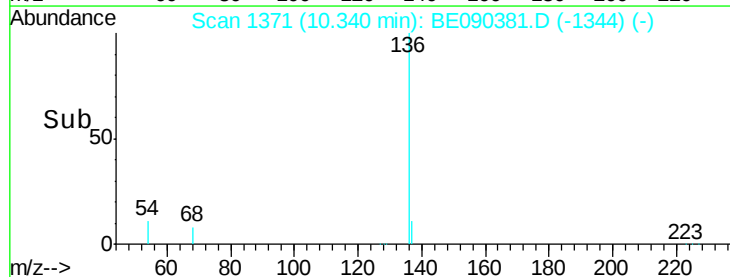
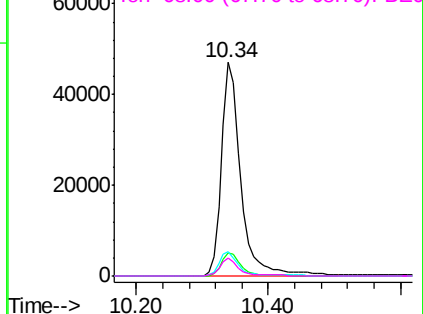


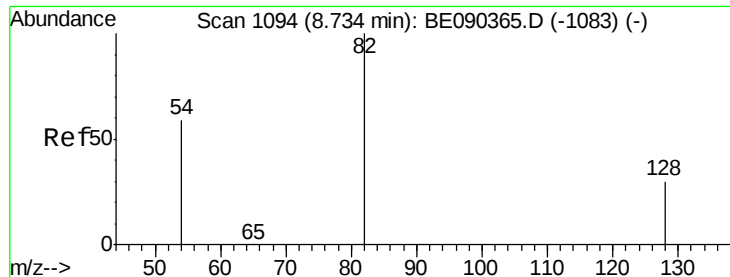
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 3.27 ng

RT: 8.73 min Scan# 1093

Delta R.T. -0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

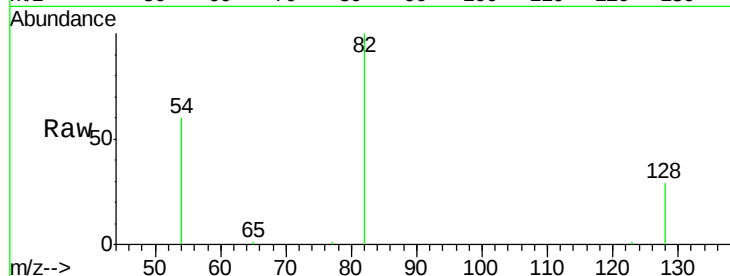
Tgt Ion: 82 Resp: 25087

Ion Ratio Lower Upper

82 100

128 29.3 25.0 37.6

54 60.0 48.8 73.2



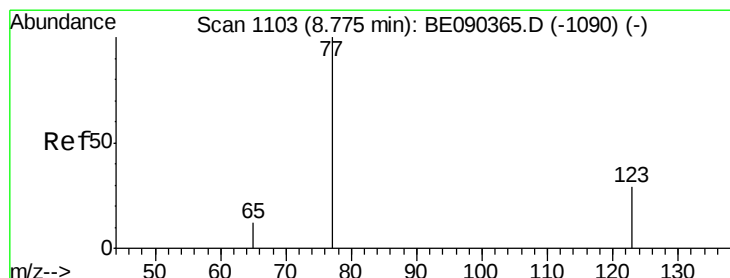
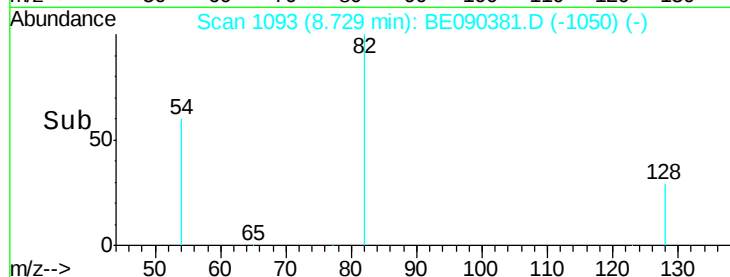
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

8.73

Time-->



#8

Nitrobenzene

Concen: 0.21 ng

RT: 8.78 min Scan# 1104

Delta R.T. 0.01 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

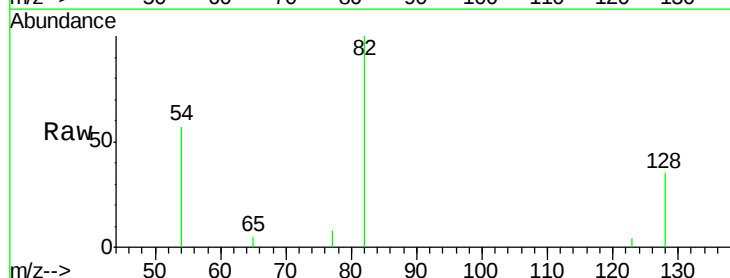
Tgt Ion: 77 Resp: 10

Ion Ratio Lower Upper

77 100

123 0.0 25.1 37.7#

65 0.0 9.3 13.9#



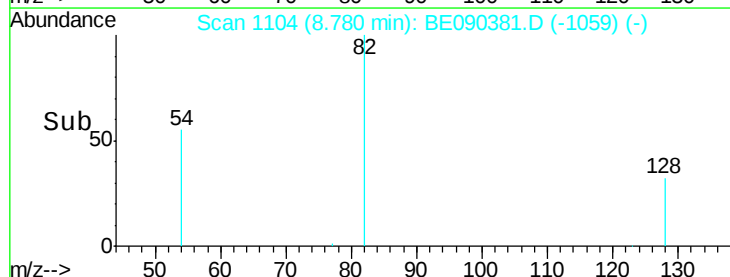
Abundance Ion 77.00 (76.70 to 77.70): BE0

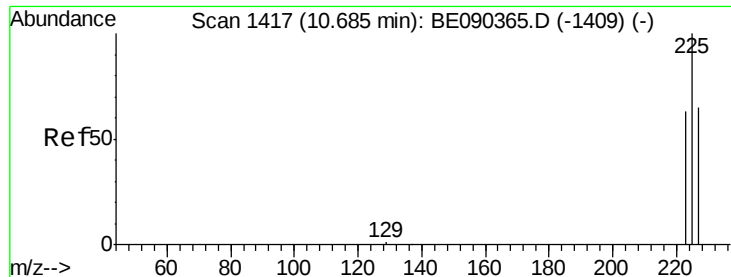
Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

8.78

Time-->





#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.68 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

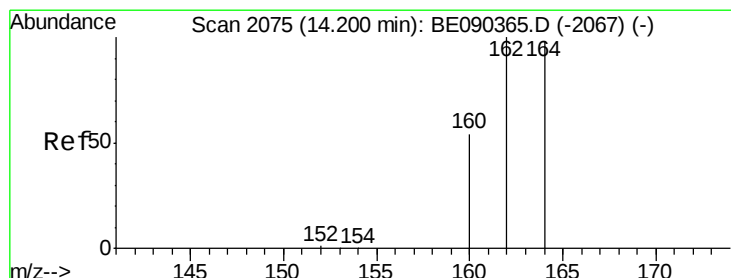
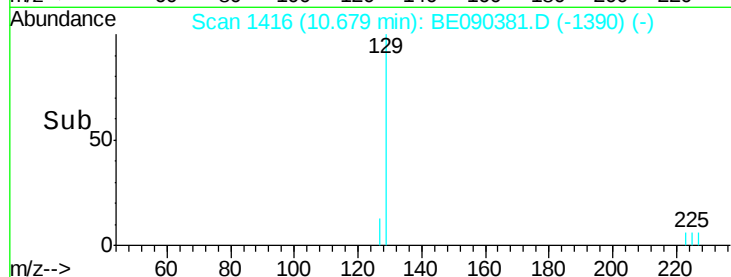
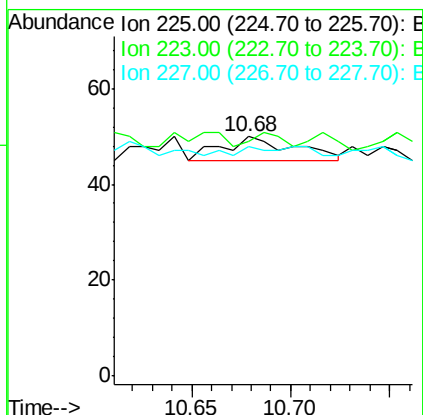
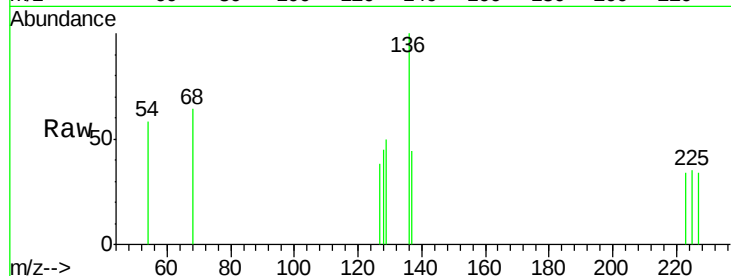
Tgt Ion: 225 Resp: 13

Ion Ratio Lower Upper

225 100

223 23.1 50.6 75.8#

227 30.8 50.7 76.1#



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.20 min Scan# 2075

Delta R.T. -0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

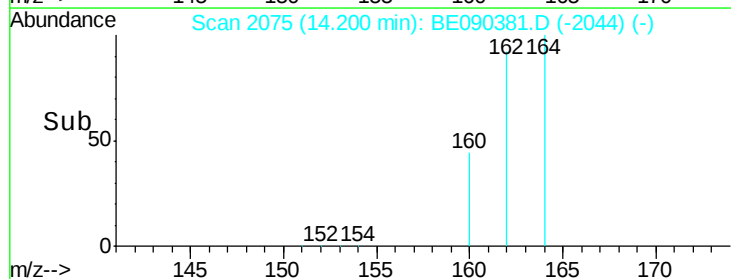
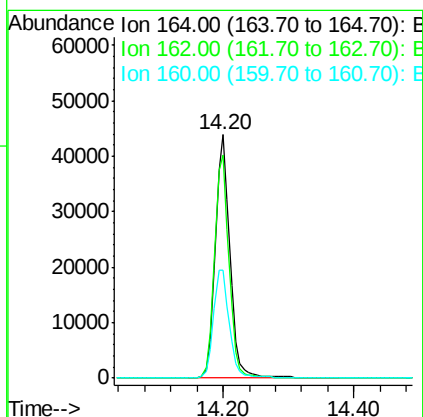
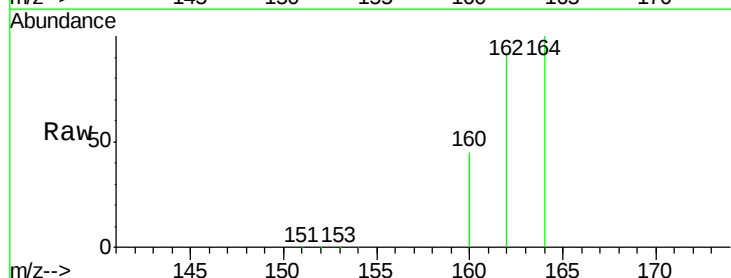
Tgt Ion: 164 Resp: 67625

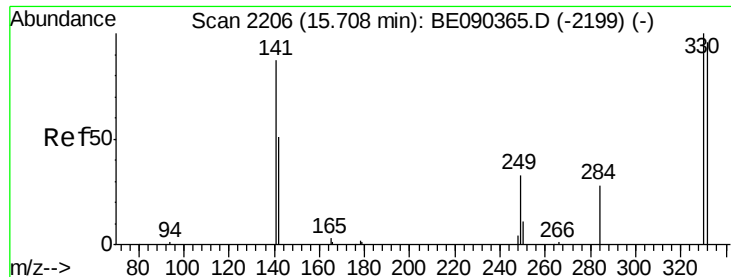
Ion Ratio Lower Upper

164 100

162 91.8 81.8 122.8

160 44.5 44.2 66.4

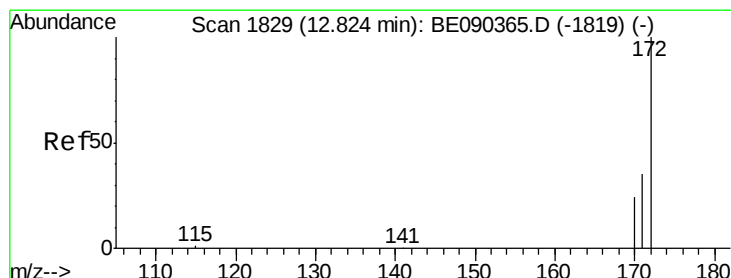
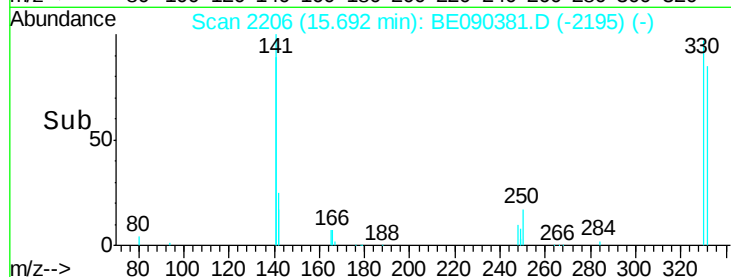
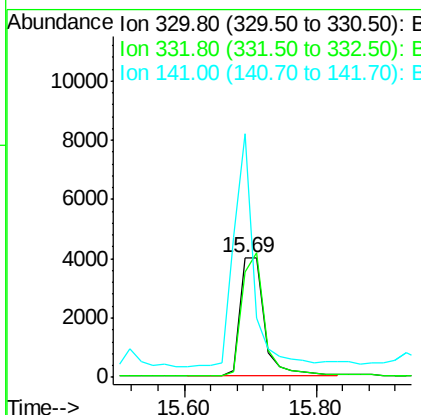
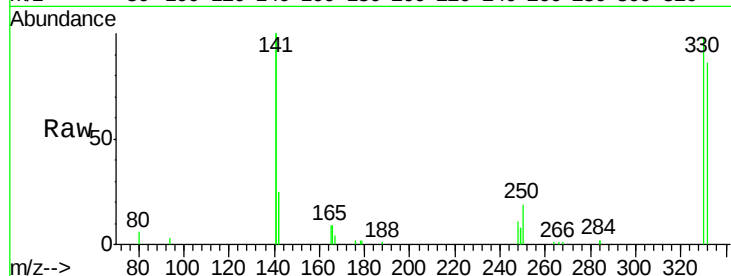




#13
 2,4,6-Tribromophenol
 Concen: 5.75 ng
 RT: 15.69 min Scan# 2206
 Delta R.T. -0.02 min
 Lab File: BE090381.D
 Acq: 6 Aug 2015 8:31

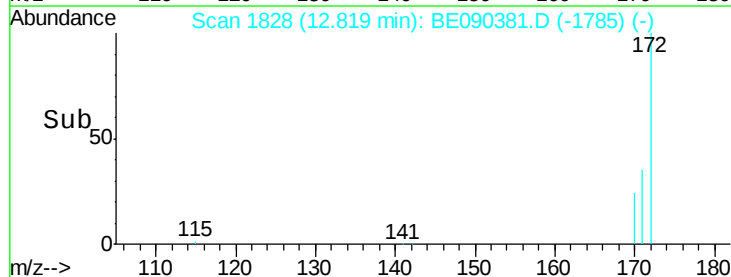
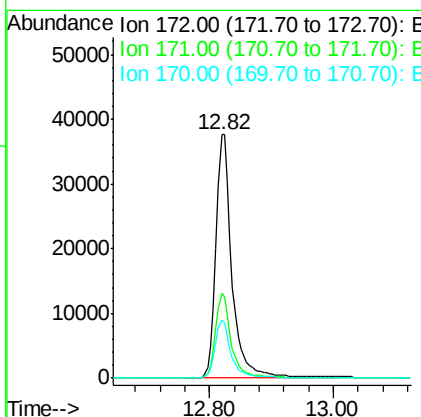
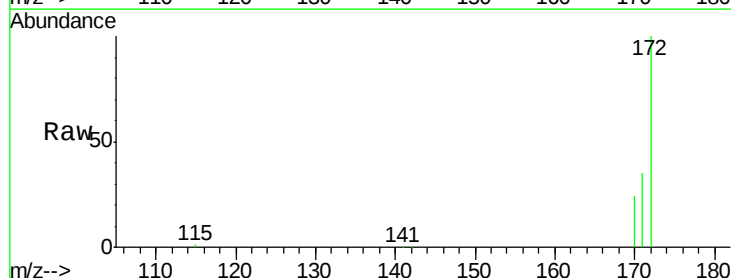
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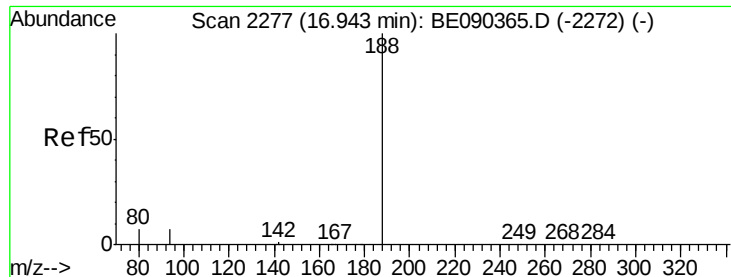
Tgt Ion:330 Resp: 10272
 Ion Ratio Lower Upper
 330 100
 332 96.6 75.8 113.6
 141 160.7 114.4 171.6



#14
 2-Fluorobiphenyl
 Concen: 3.66 ng
 RT: 12.82 min Scan# 1828
 Delta R.T. -0.00 min
 Lab File: BE090381.D
 Acq: 6 Aug 2015 8:31

Tgt Ion:172 Resp: 68071
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.5 42.7
 170 23.7 19.8 29.8





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.94 min Scan# 2278

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

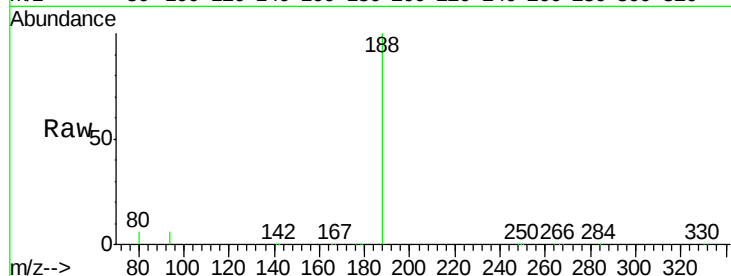
Tgt Ion:188 Resp: 139867

Ion Ratio Lower Upper

188 100

94 5.5 5.7 8.5#

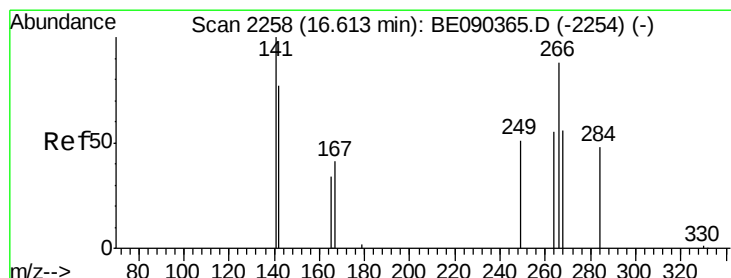
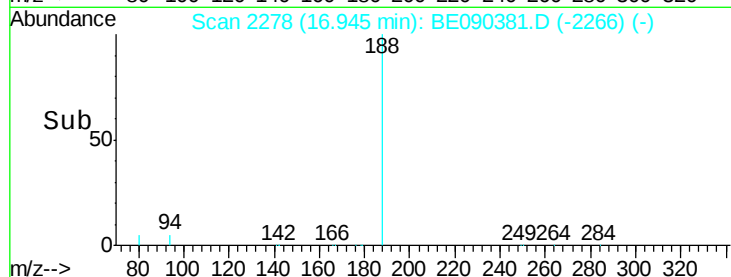
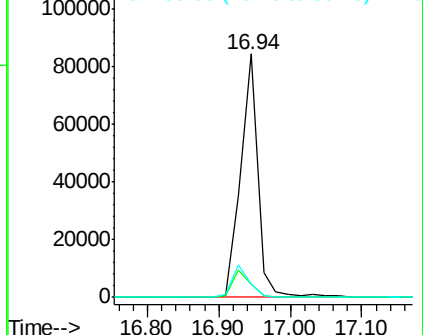
80 5.6 5.8 8.8#



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



#21

Pentachlorophenol

Concen: 0.10 ng

RT: 16.60 min Scan# 2258

Delta R.T. -0.02 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

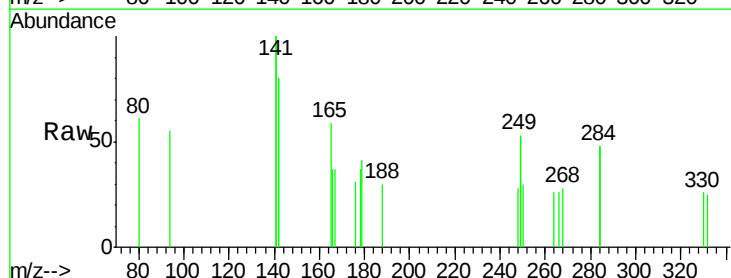
Tgt Ion:266 Resp: 28

Ion Ratio Lower Upper

266 100

268 105.8 58.5 87.7#

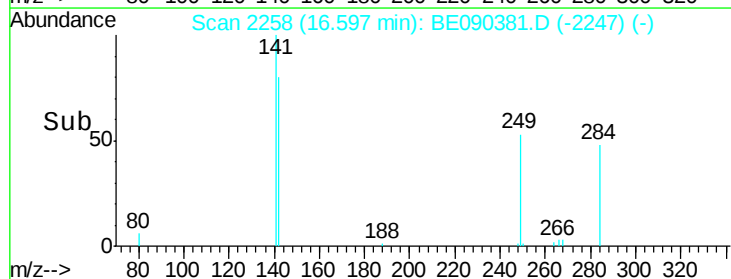
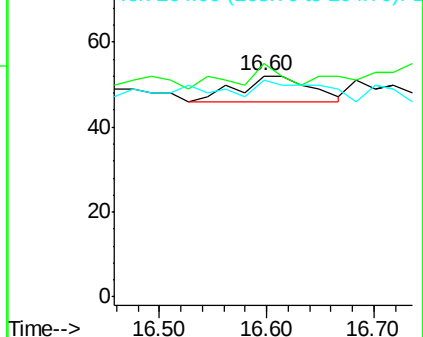
264 98.1 56.0 84.0#

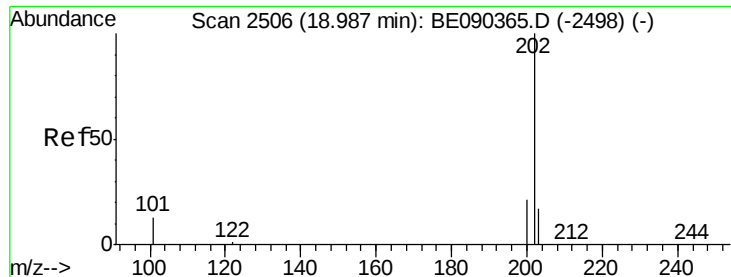


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#24

Fluoranthene

Concen: 0.03 ng

RT: 18.99 min Scan# 2507

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

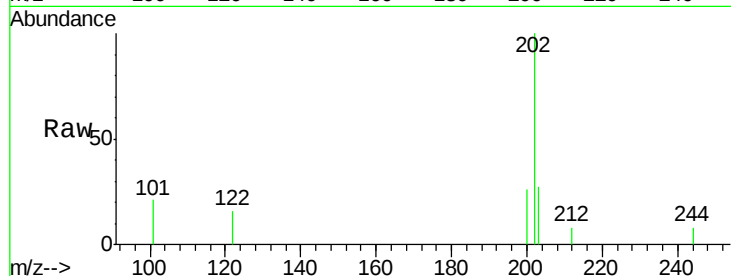
Tgt Ion:202 Resp: 986

Ion Ratio Lower Upper

202 100

101 16.3 10.3 15.5#

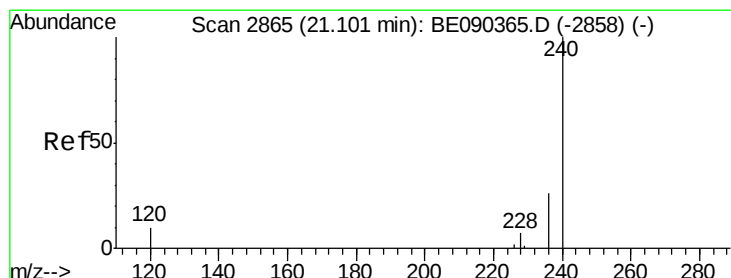
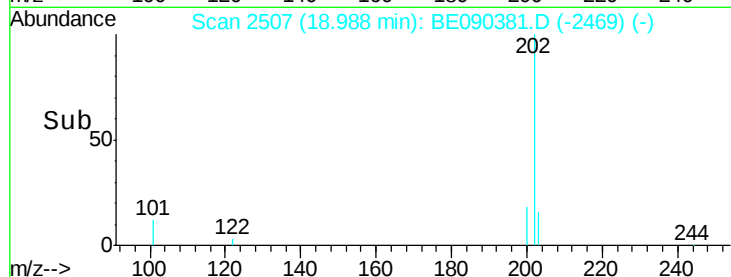
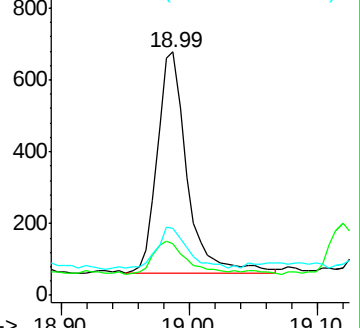
203 20.5 13.7 20.5



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.10 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

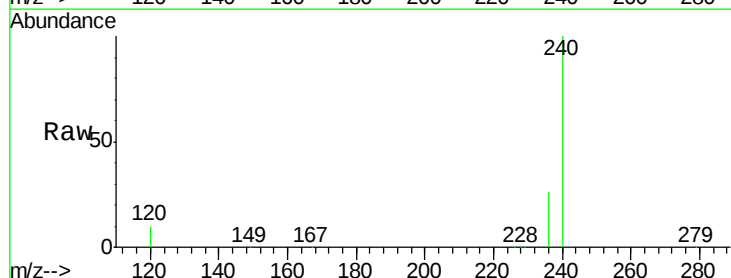
Tgt Ion:240 Resp: 159206

Ion Ratio Lower Upper

240 100

120 9.9 8.3 12.5

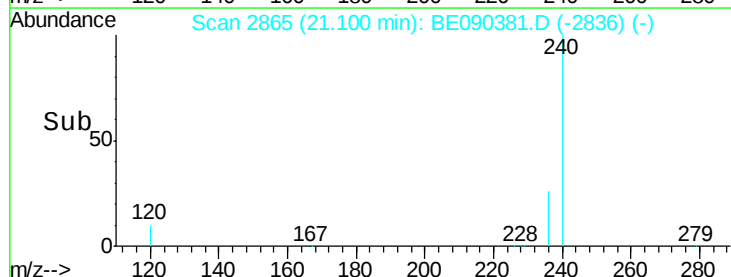
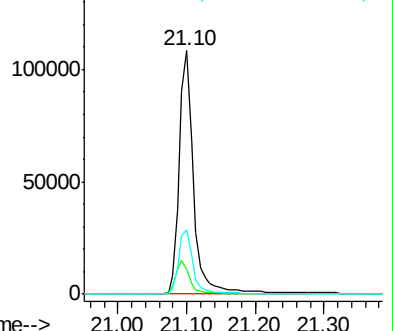
236 26.4 21.0 31.4

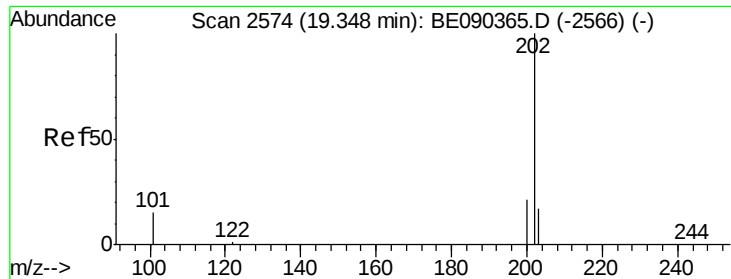


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#26

Pyrene

Concen: 0.03 ng

RT: 19.35 min Scan# 2575

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

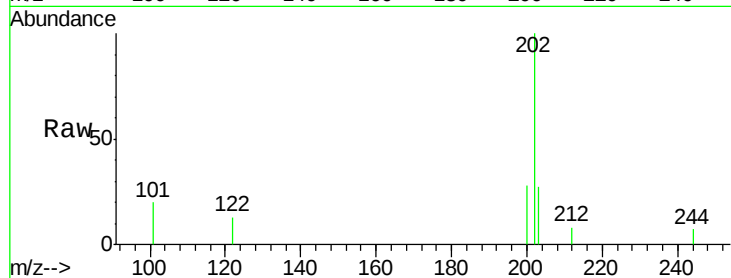
Tgt Ion: 202 Resp: 1163

Ion Ratio Lower Upper

202 100

200 19.7 16.7 25.1

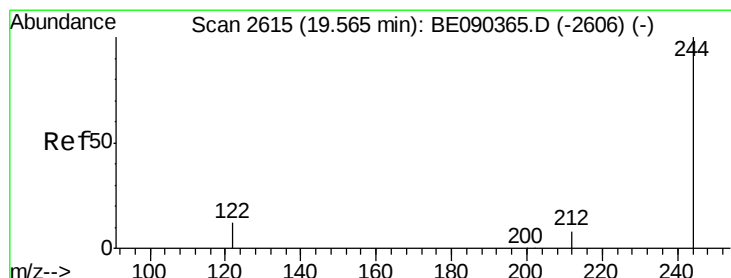
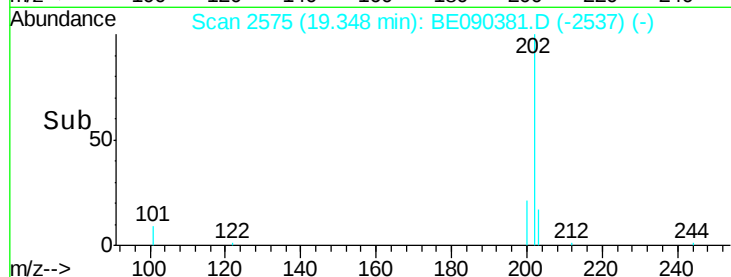
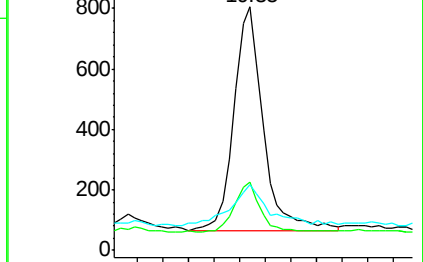
203 23.3 13.8 20.8#



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



#27

Terphenyl-d14

Concen: 5.86 ng

RT: 19.55 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

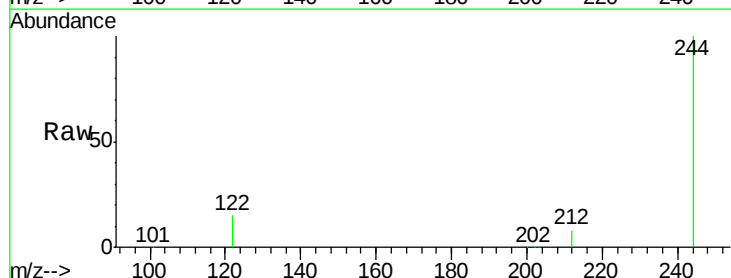
Tgt Ion: 244 Resp: 137338

Ion Ratio Lower Upper

244 100

212 8.3 6.6 9.8

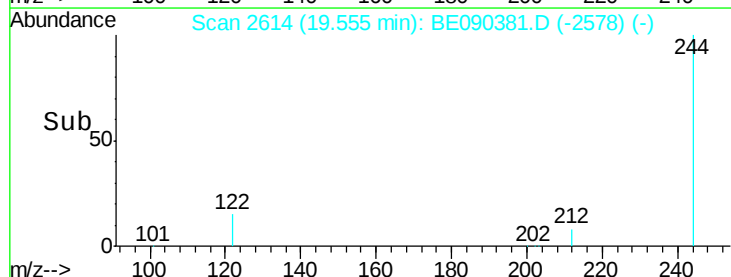
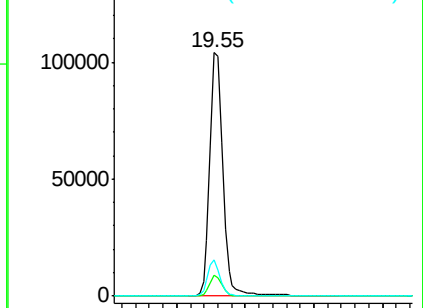
122 14.9 10.2 15.4

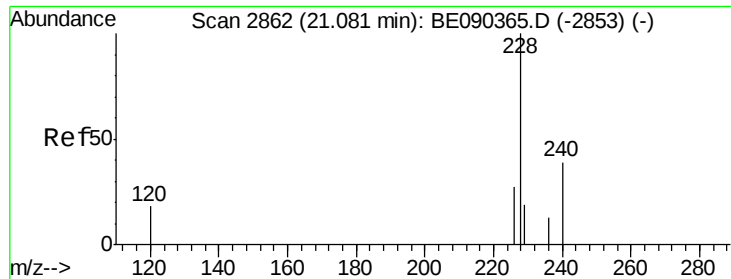


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#28

Benzo(a)anthracene

Concen: 0.03 ng

RT: 21.09 min Scan# 2864

Delta R.T. 0.01 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

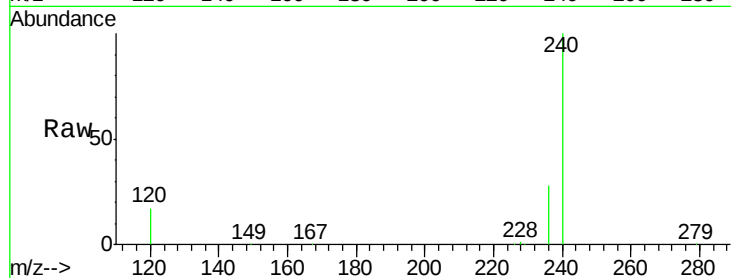
Tgt Ion:228 Resp: 1205

Ion Ratio Lower Upper

228 100

226 38.1 21.9 32.9#

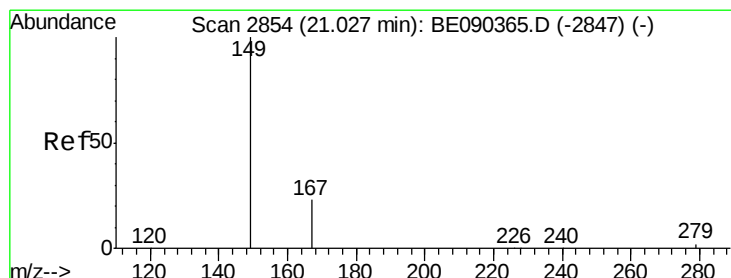
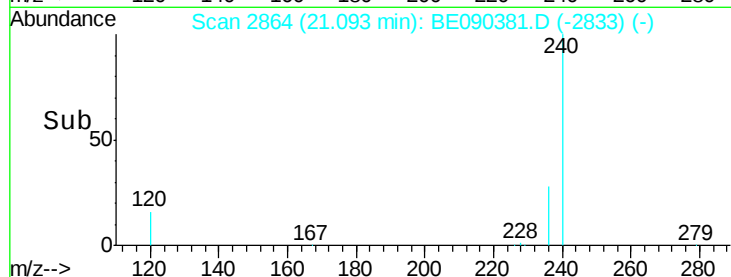
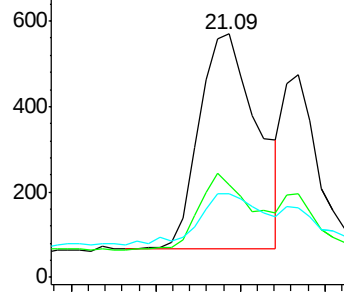
229 34.2 15.4 23.0#



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.31 ng

RT: 21.03 min Scan# 2854

Delta R.T. -0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

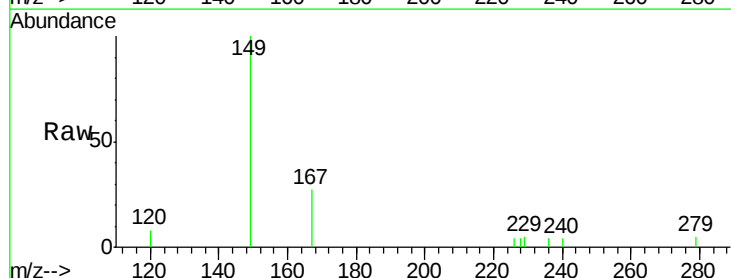
Tgt Ion:149 Resp: 1710

Ion Ratio Lower Upper

149 100

167 27.1 19.8 29.8

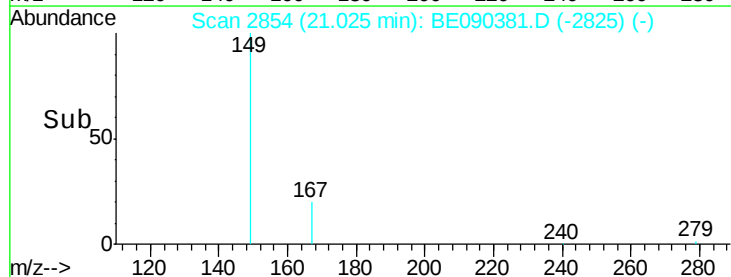
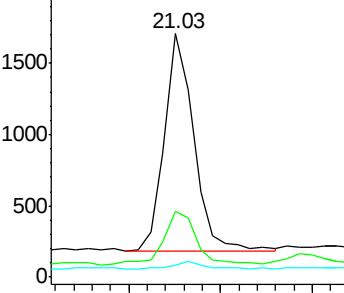
279 3.3 2.4 3.6

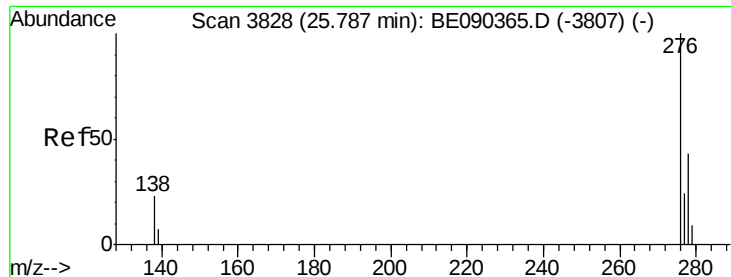


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.27 ng

RT: 25.79 min Scan# 3830

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

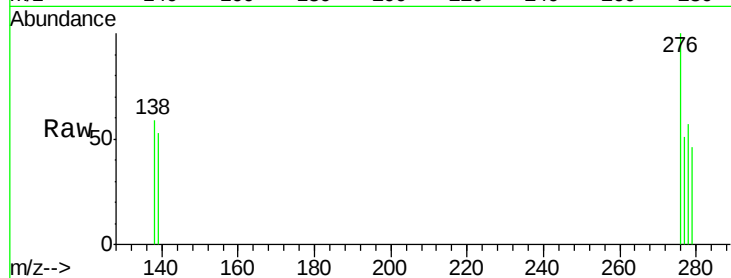
Tgt Ion:276 Resp: 491

Ion Ratio Lower Upper

276 100

138 3.9 18.8 28.2#

277 10.4 18.2 27.4#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

25.79

200

150

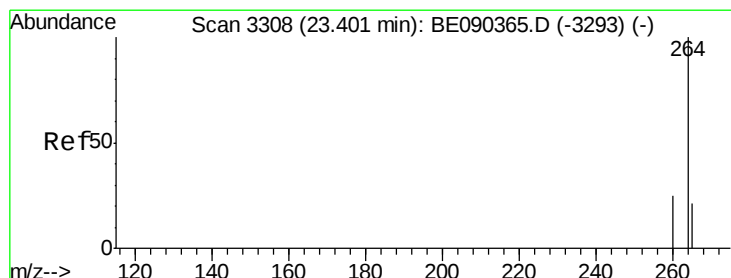
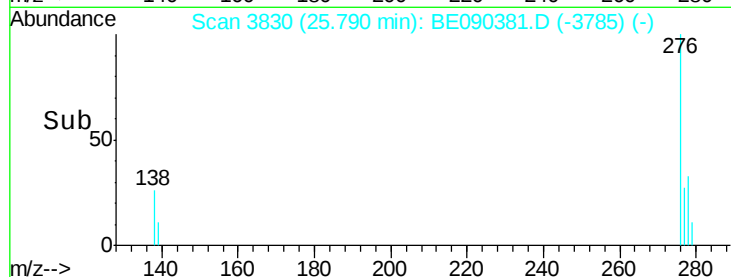
100

50

0

25.70 25.80 25.90

Time-->



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 3309

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

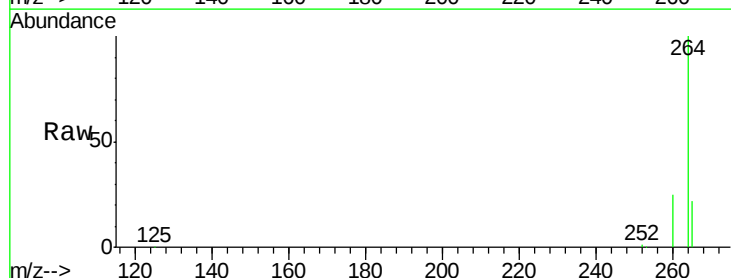
Tgt Ion:264 Resp: 144855

Ion Ratio Lower Upper

264 100

260 24.8 20.1 30.1

265 21.9 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

23.40

80000

60000

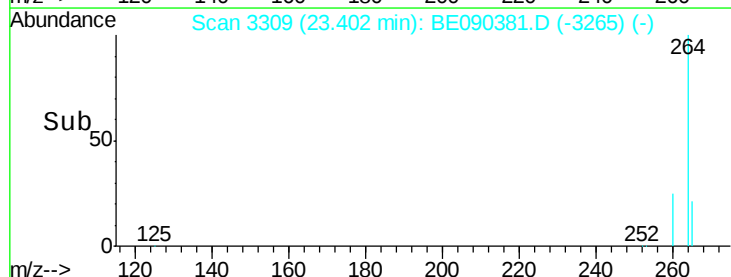
40000

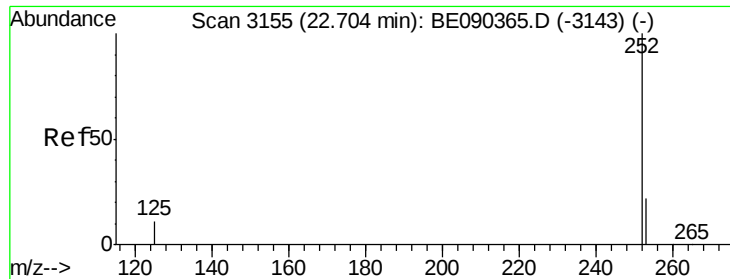
20000

0

23.40 23.60

Time-->





#33

Benzo(b)fluoranthene

Concen: 0.21 ng

RT: 22.71 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B

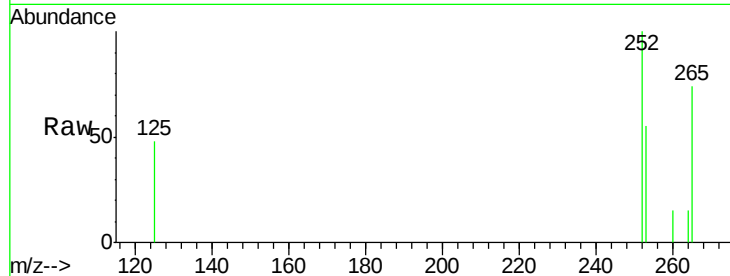
Tgt Ion:252 Resp: 721

Ion Ratio Lower Upper

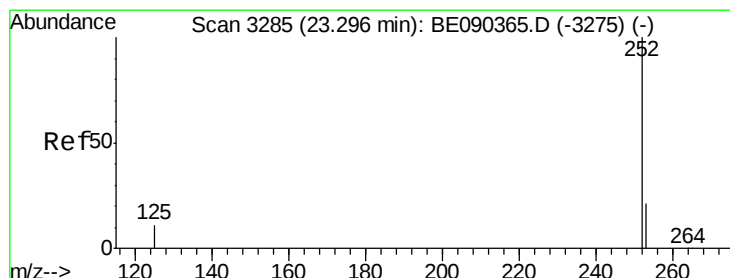
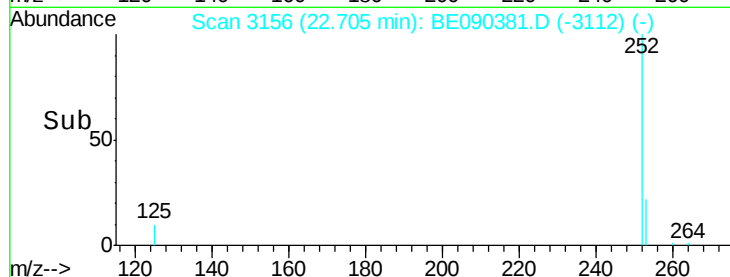
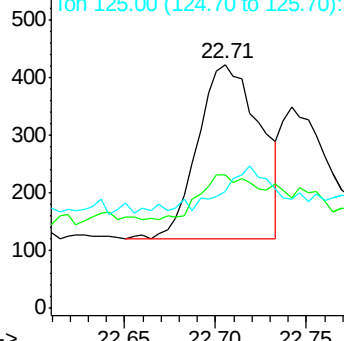
252 100

253 54.8 18.1 27.1#

125 48.0 9.4 14.2#



Abundance Ion 252.00 (251.70 to 252.70): E



#35

Benzo(a)pyrene

Concen: 0.24 ng

RT: 23.30 min Scan# 3286

Delta R.T. 0.00 min

Lab File: BE090381.D

Acq: 6 Aug 2015 8:31

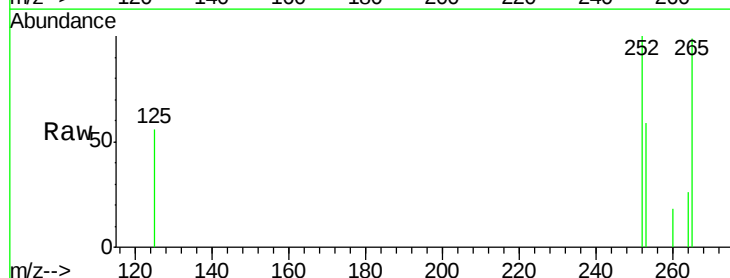
Tgt Ion:252 Resp: 481

Ion Ratio Lower Upper

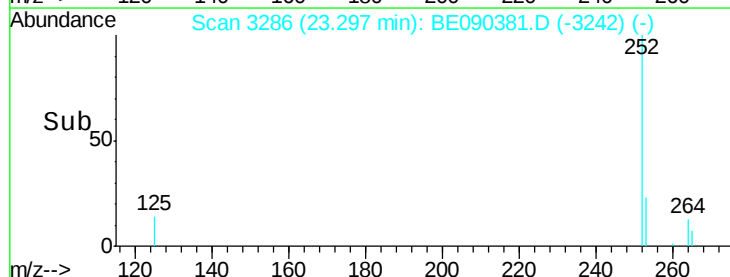
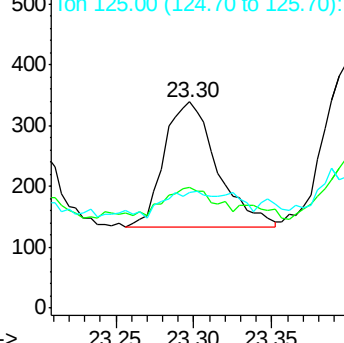
252 100

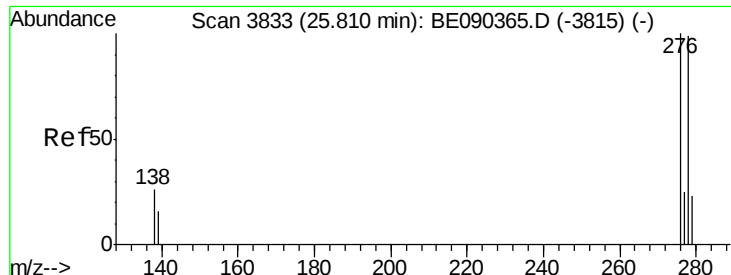
253 58.7 17.6 26.4#

125 56.0 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E





#36

Dibenzo(a,h)anthracene

Concen: 0.29 ng

RT: 25.80 min Scan# 3832

Delta R.T. -0.01 min

Lab File: BE090381.D

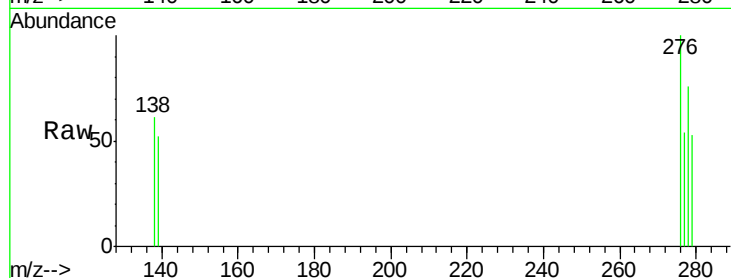
Acq: 6 Aug 2015 8:31

Instrument :

BNA_E

ClientSampleId :

080415-D506-E-D-B



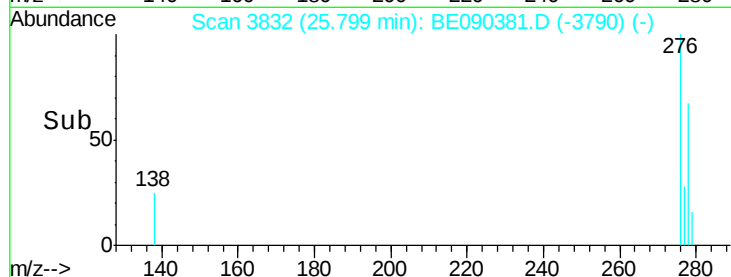
Tgt Ion: 278 Resp: 142

Ion Ratio Lower Upper

278 100

139 68.1 14.2 21.4#

279 69.7 20.1 30.1#



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

150

100

50

0

25.70 25.75 25.80

25.80

Time-->