

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089474.D
 Acq On : 3 Feb 2015 21:32
 Operator : TP/IZ
 Sample : PB81502BL
 Misc : 4 TIME INT STD
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81559BL

Quant Time: Feb 04 01:12:58 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:53:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.53	152	382055	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	1435373	5.00	ng	0.00
13) Acenaphthene-d10	16.61	164	605020	5.00	ng	0.00
17) Phenanthrene-d10	19.94	188	1091313	5.00	ng	0.00
20) Chrysene-d12	23.79	240	1016124	5.00	ng	0.00
27) Perylene-d12	25.50	264	980976	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.76	112	3113624	25.20	ng	0.04
4) Phenol-d6	8.87	99	3833545	24.72	ng	0.03
8) Nitrobenzene-d5	10.81	82	2373250	21.86	ng	0.02
14) 2,4,6-Tribromophenol	18.53	330	658231	24.83	ng	0.02
15) 2-Fluorobiphenyl	15.08	172	3022830	18.96	ng	0.01
22) Terphenyl-d14	22.45	244	2867672	19.91	ng	0.02

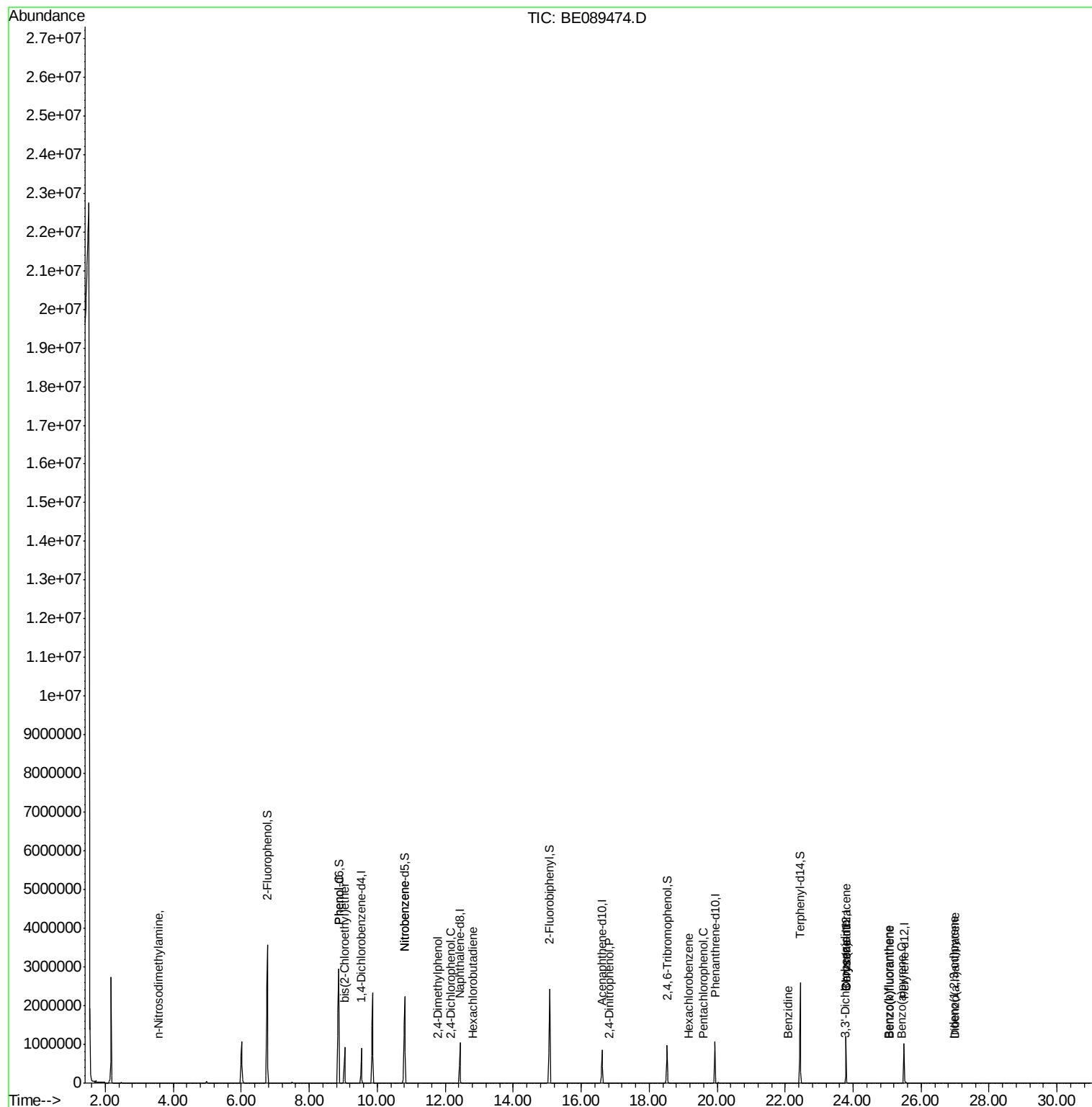
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.57	42	39	0.09	ng	# 1
5) Phenol	8.87	94	1047	0.01	ng	# 1
6) bis(2-Chloroethyl)ether	9.04	93	4529	0.04	ng	# 1
9) Nitrobenzene	10.81	77	8241	0.07	ng	# 39
10) 2,4-Dimethylphenol	11.77	122	155	0.00	ng	# 87
11) 2,4-Dichlorophenol	12.15	162	99	0.00	ng	# 1
12) Hexachlorobutadiene	12.80	225	70	0.00	ng	# 85
16) 2,4-Dinitrophenol	16.83	184	5	0.40	ng	# 61
18) Hexachlorobenzene	19.17	284	109	0.00	ng	# 25
19) Pentachlorophenol	19.60	266	61	0.35	ng	# 66
21) Benzidine	22.10	184	23	0.09	ng	# 1
23) Benzo(a)anthracene	23.79	228	13565	0.02	ng	# 69
24) 3,3'-Dichlorobenzidine	23.76	252	57	0.12	ng	# 14
25) Chrysene	23.79	228	13565	0.01	ng	# 68
26) Indeno(1,2,3-cd)pyrene	26.97	276	295	0.14	ng	# 70
28) Benzo(b)fluoranthene	25.04	252	375	0.18	ng	# 31
29) Benzo(k)fluoranthene	25.07	252	495	0.00	ng	# 28
30) Benzo(a)pyrene	25.42	252	361	0.17	ng	# 16
31) Dibenzo(a,h)anthracene	26.99	278	150	0.15	ng	# 1

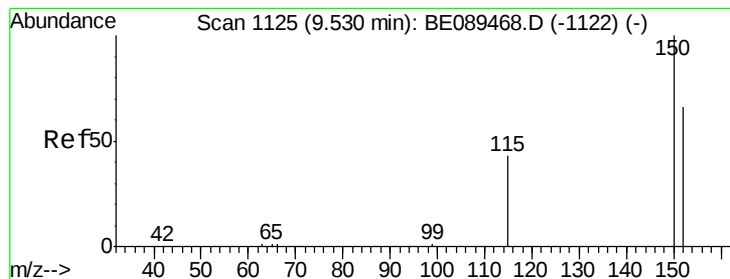
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

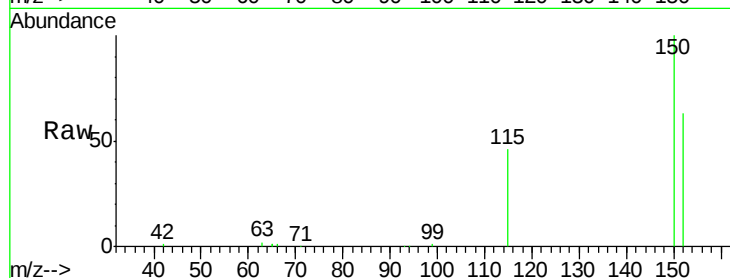
Tgt Ion: 152 Resp: 382055

Ion Ratio Lower Upper

152 100

150 158.0 122.1 183.1

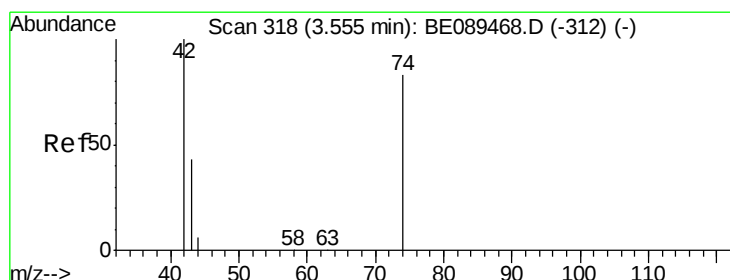
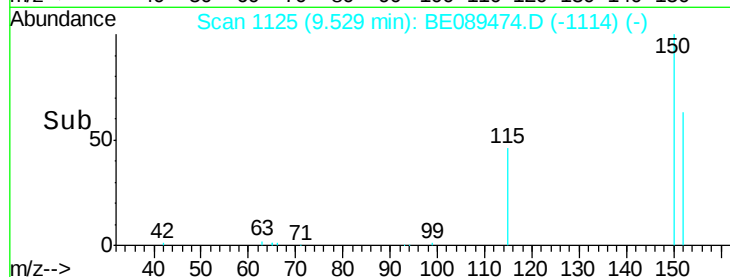
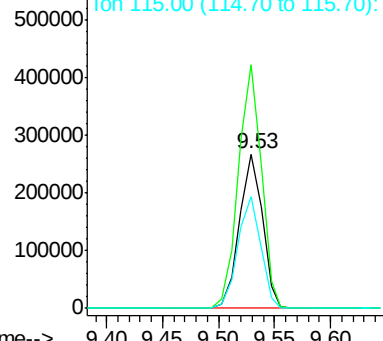
115 72.2 53.2 79.8



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

n-Nitrosodimethylamine

Concen: 0.09 ng

RT: 3.57 min Scan# 321

Delta R.T. 0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

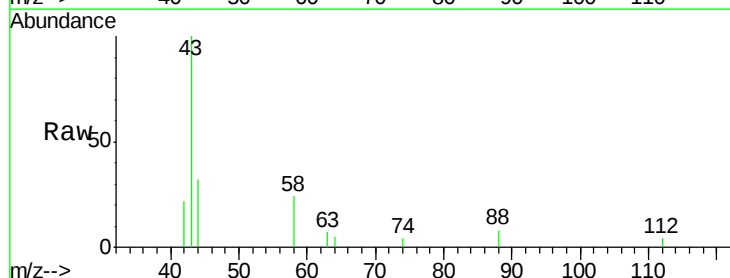
Tgt Ion: 42 Resp: 39

Ion Ratio Lower Upper

42 100

74 19.8 65.4 98.2#

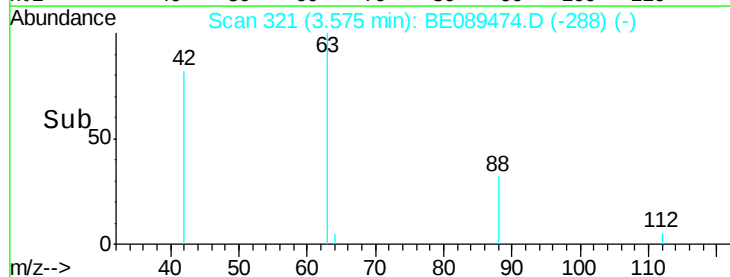
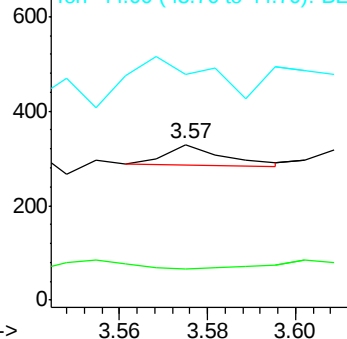
44 145.0 11.7 17.5#

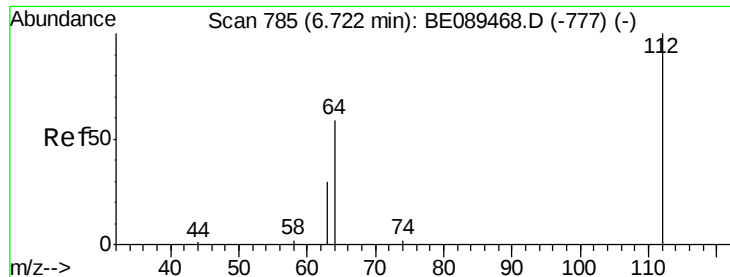


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

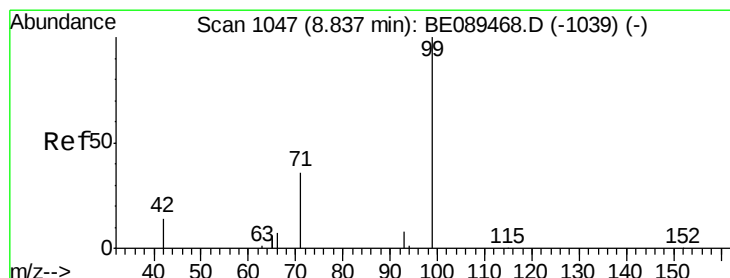
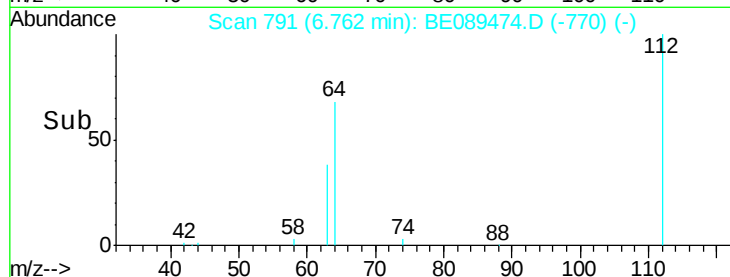
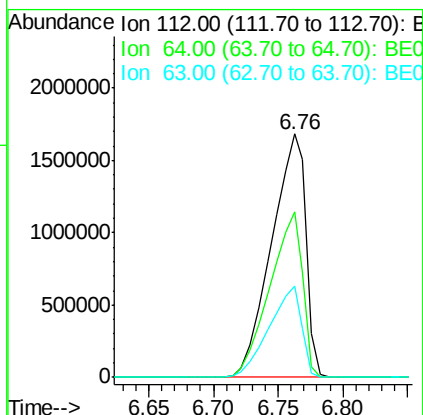
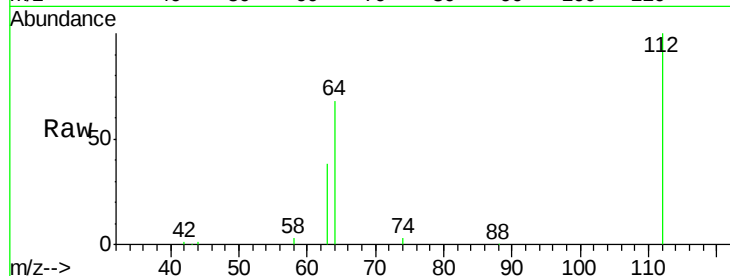




#3
 2-Fluorophenol
 Concen: 25.20 ng
 RT: 6.76 min Scan# 791
 Delta R.T. 0.04 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

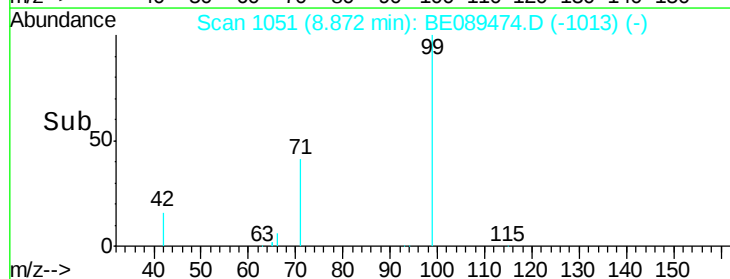
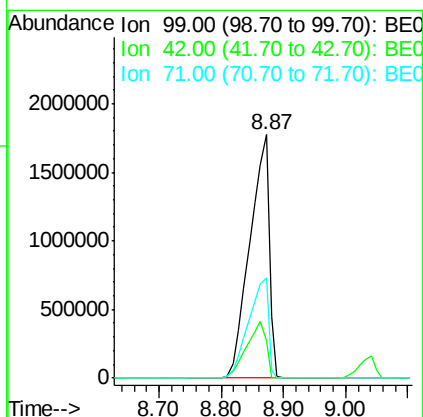
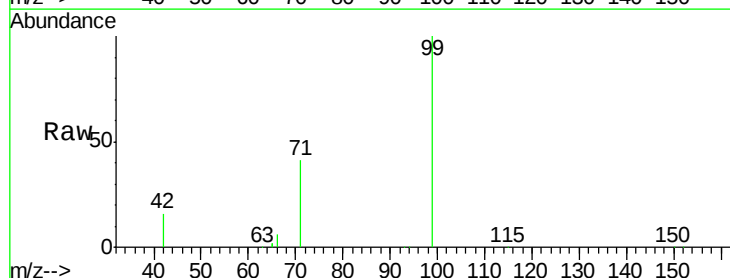
Instrument :
 BNA_E
 ClientSampleID :
 PB81559BL

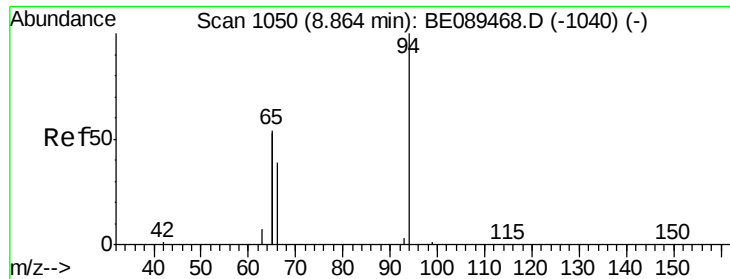
Tgt Ion: 112 Resp: 3113624
 Ion Ratio Lower Upper
 112 100
 64 67.9 47.0 70.6
 63 37.5 24.2 36.2#



#4
 Phenol-d6
 Concen: 24.72 ng
 RT: 8.87 min Scan# 1051
 Delta R.T. 0.03 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

Tgt Ion: 99 Resp: 3833545
 Ion Ratio Lower Upper
 99 100
 42 15.6 11.8 17.6
 71 41.3 28.7 43.1





#5

Phenol

Concen: 0.01 ng

RT: 8.87 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampled :

PB81559BL

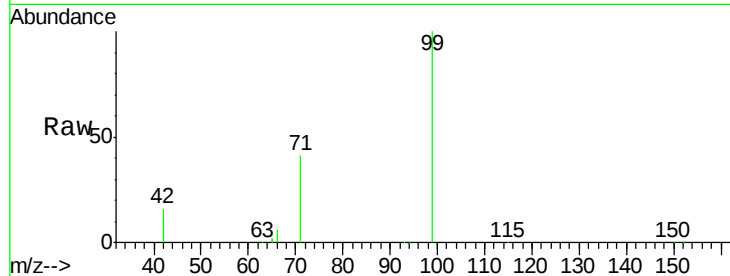
Tgt Ion: 94 Resp: 1047

Ion Ratio Lower Upper

94 100

65 17193.9 33.9 73.9#

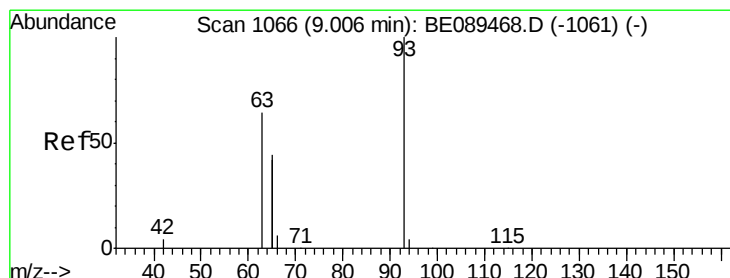
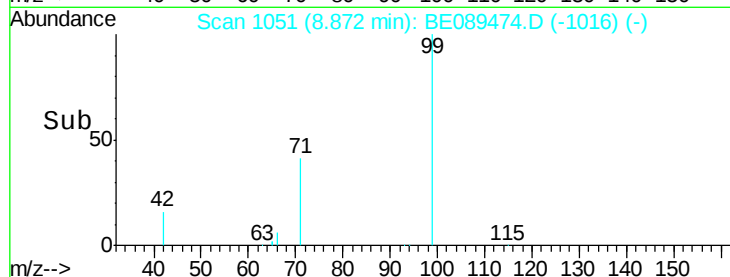
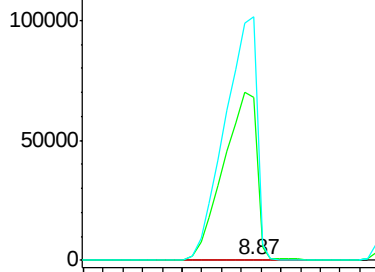
66 25776.6 19.1 59.1#



Abundance Ion 94.00 (93.70 to 94.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

Ion 66.00 (65.70 to 66.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.04 ng

RT: 9.04 min Scan# 1070

Delta R.T. 0.03 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

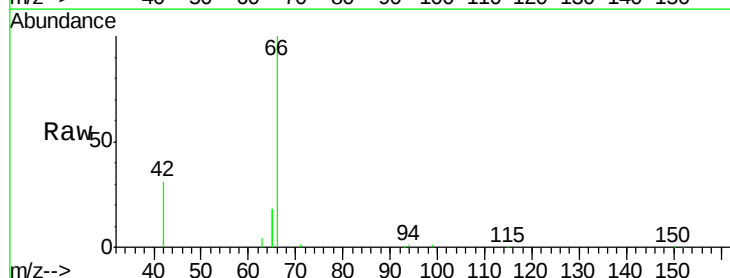
Tgt Ion: 93 Resp: 4529

Ion Ratio Lower Upper

93 100

63 871.8 57.0 85.6#

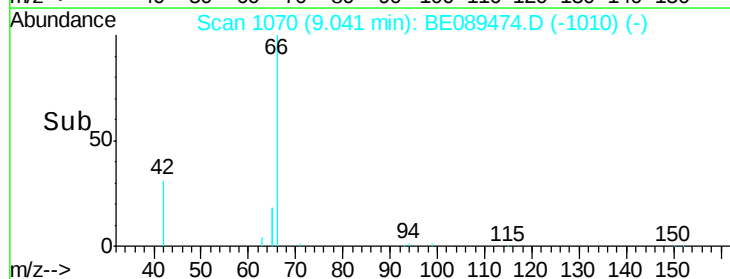
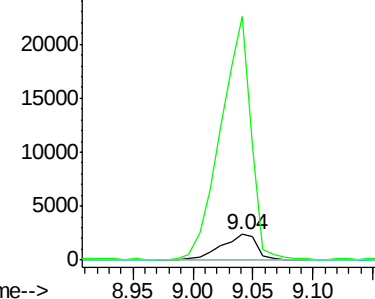
95 0.0 0.0 0.0

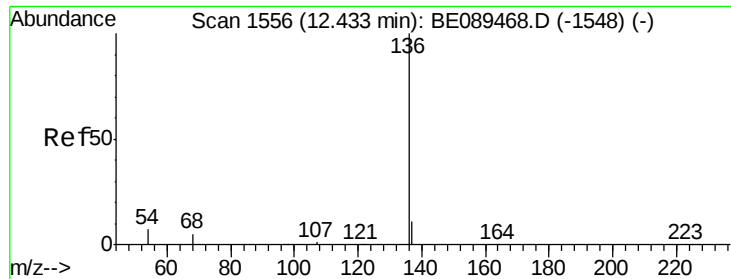


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampled :

PB81559BL

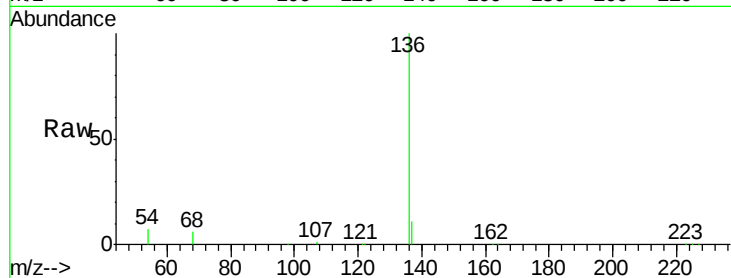
Tgt Ion:136 Resp: 1435373

Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

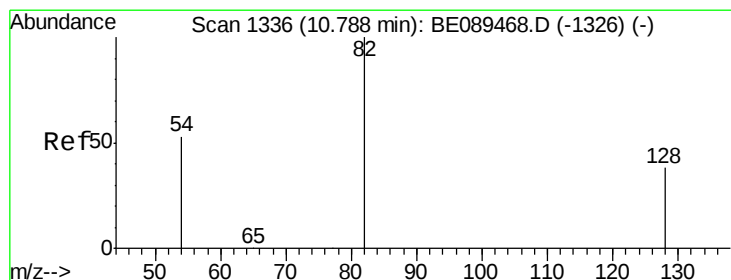
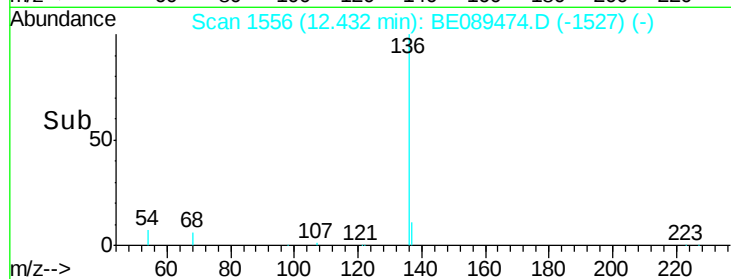
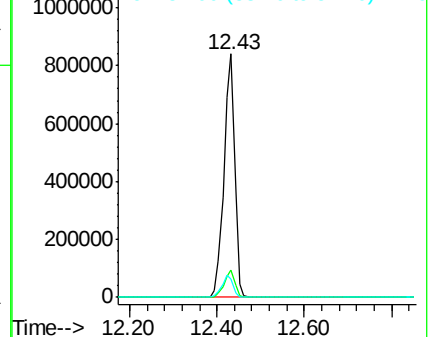
54 7.4 5.4 8.0



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



#8

Nitrobenzene-d5

Concen: 21.86 ng

RT: 10.81 min Scan# 1341

Delta R.T. 0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

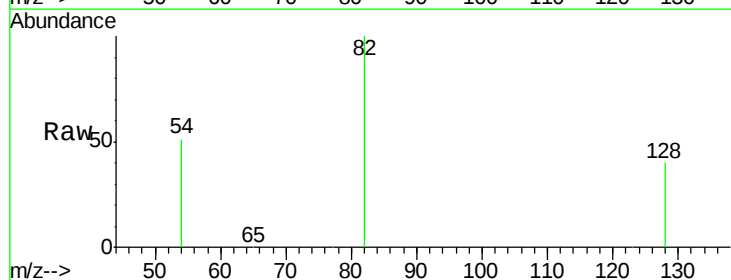
Tgt Ion: 82 Resp: 2373250

Ion Ratio Lower Upper

82 100

128 40.2 30.3 45.5

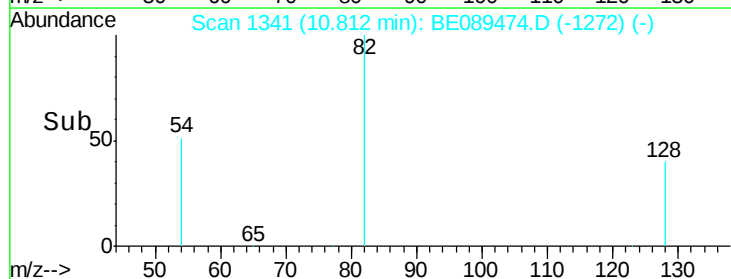
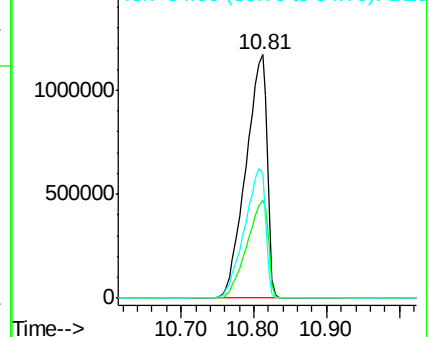
54 51.4 43.1 64.7

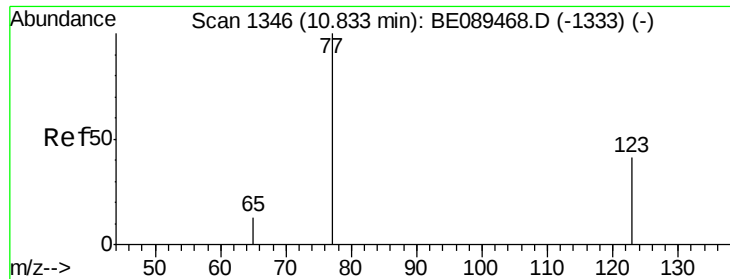


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.07 ng

RT: 10.81 min Scan# 1341

Delta R.T. -0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

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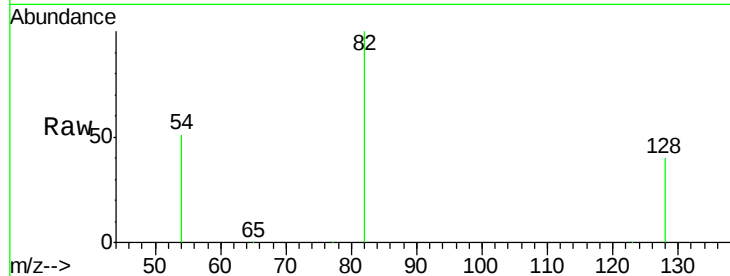
Tgt Ion: 77 Resp: 8241

Ion Ratio Lower Upper

77 100

123 0.4 33.4 50.0#

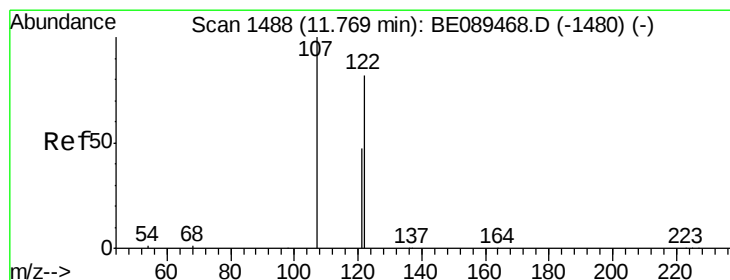
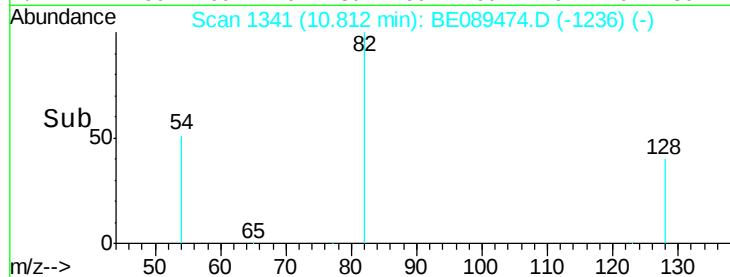
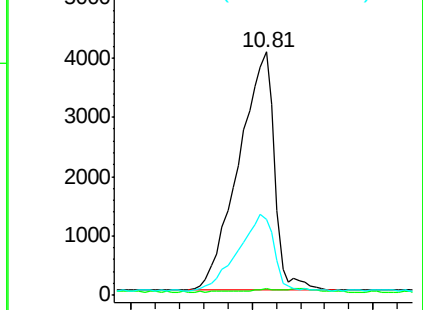
65 32.8 10.9 16.3#



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



#10

2,4-Dimethylphenol

Concen: 0.00 ng

RT: 11.77 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

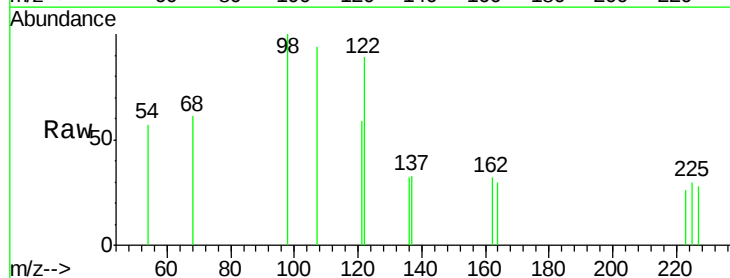
Tgt Ion: 122 Resp: 155

Ion Ratio Lower Upper

122 100

107 105.8 97.3 145.9

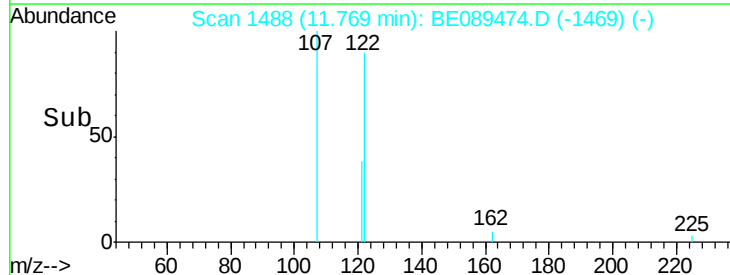
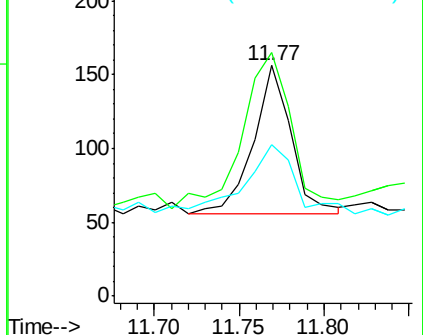
121 66.0 46.4 69.6

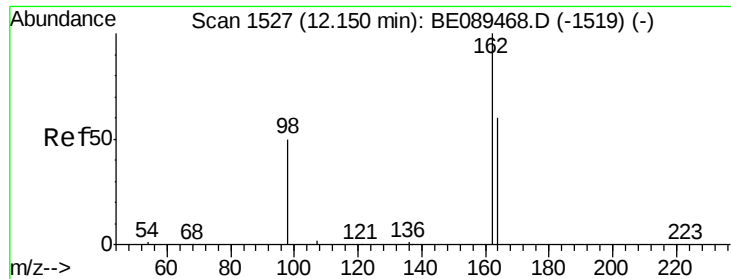


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

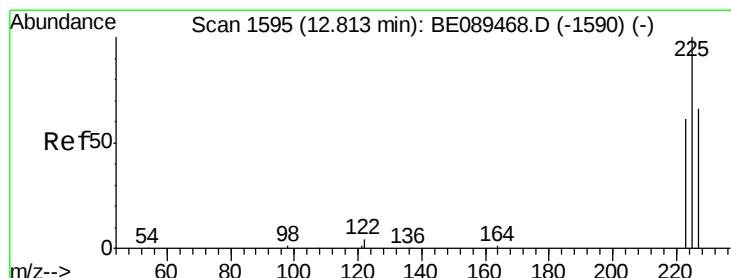
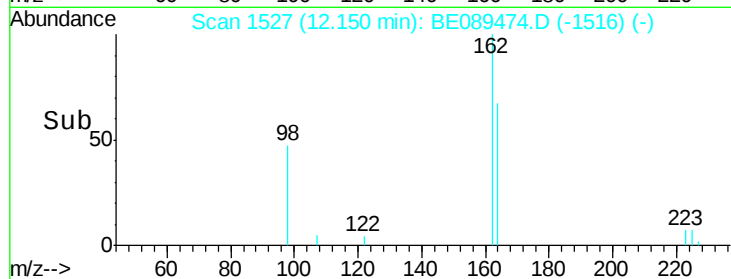
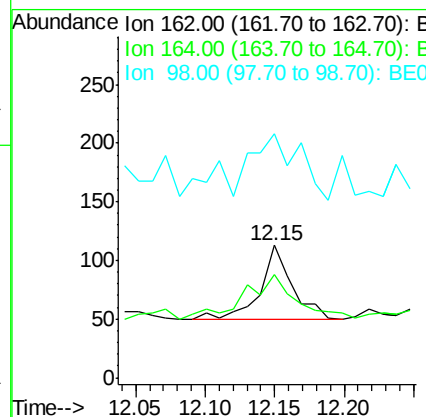
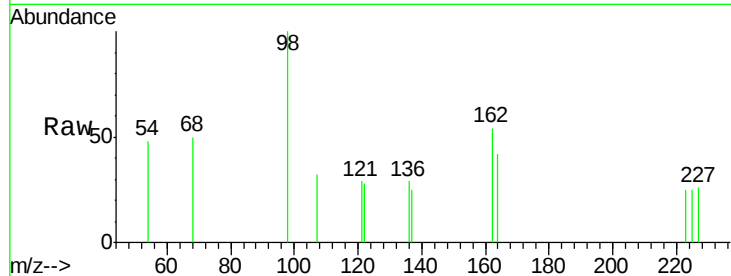




#11
 2,4-Dichlorophenol
 Concen: 0.00 ng
 RT: 12.15 min Scan# 1527
 Delta R.T. -0.00 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

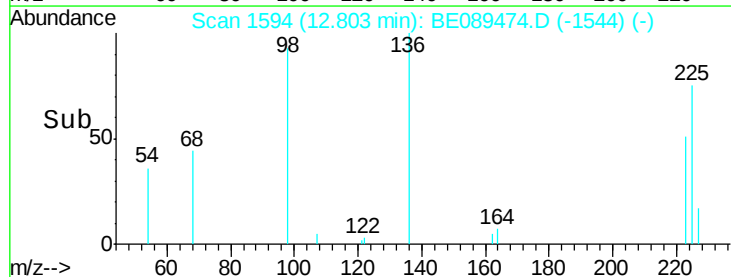
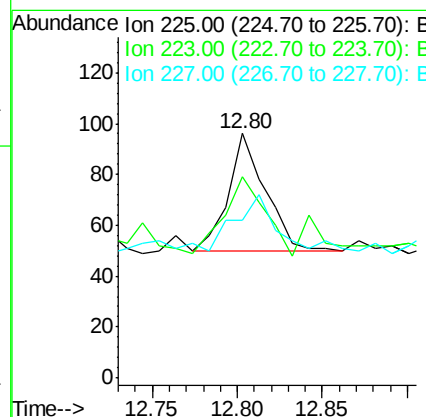
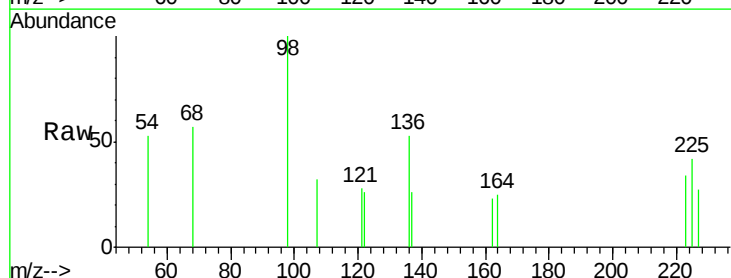
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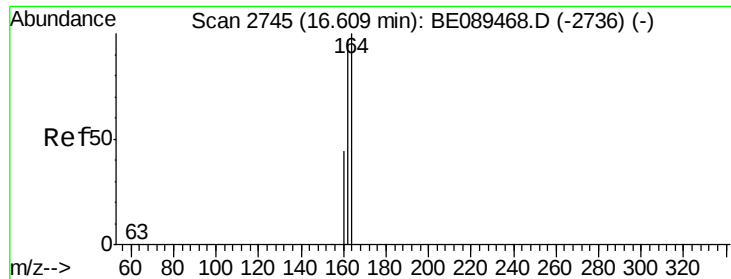
Tgt Ion:162 Resp: 99
 Ion Ratio Lower Upper
 162 100
 164 77.9 39.9 79.9
 98 184.1 31.3 71.3#



#12
 Hexachlorobutadiene
 Concen: 0.00 ng
 RT: 12.80 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

Tgt Ion:225 Resp: 70
 Ion Ratio Lower Upper
 225 100
 223 74.3 49.4 74.0#
 227 52.9 51.2 76.8





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.61 min Scan# 2745

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

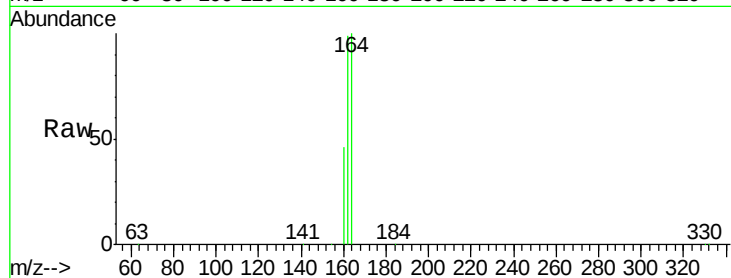
Tgt Ion:164 Resp: 605020

Ion Ratio Lower Upper

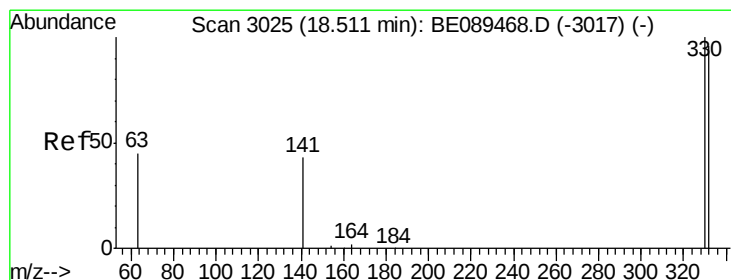
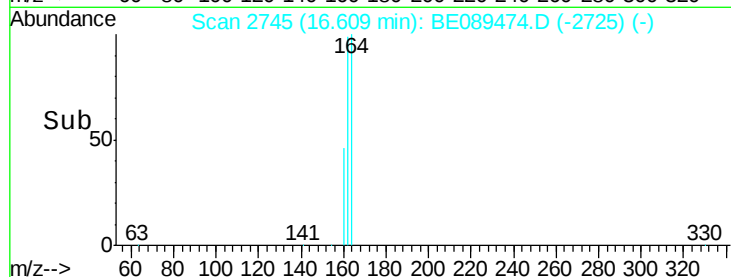
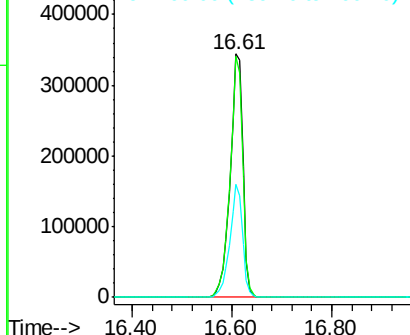
164 100

162 98.9 77.6 116.4

160 46.3 35.6 53.4



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



#14

2,4,6-Tribromophenol

Concen: 24.83 ng

RT: 18.53 min Scan# 3028

Delta R.T. 0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

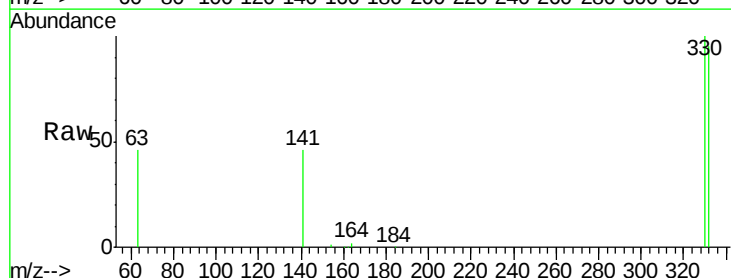
Tgt Ion:330 Resp: 658231

Ion Ratio Lower Upper

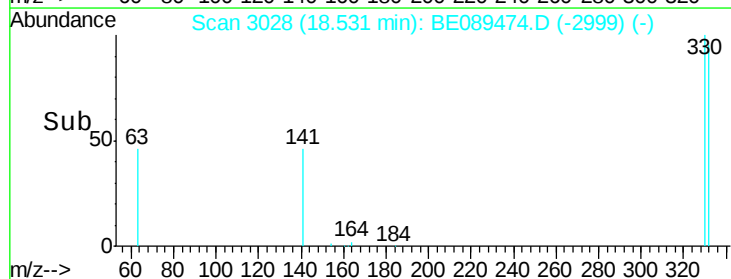
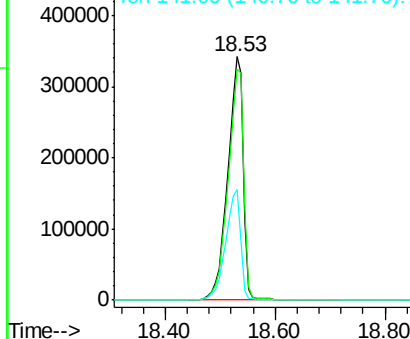
330 100

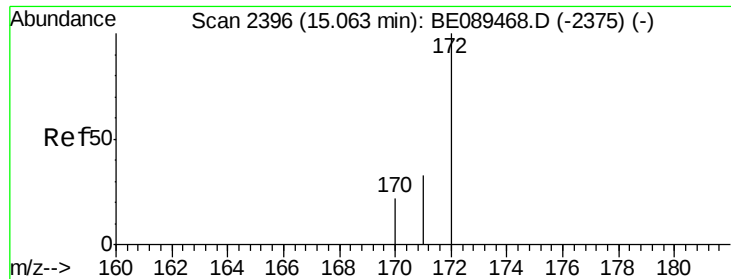
332 96.0 78.0 117.0

141 44.7 33.8 50.6



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

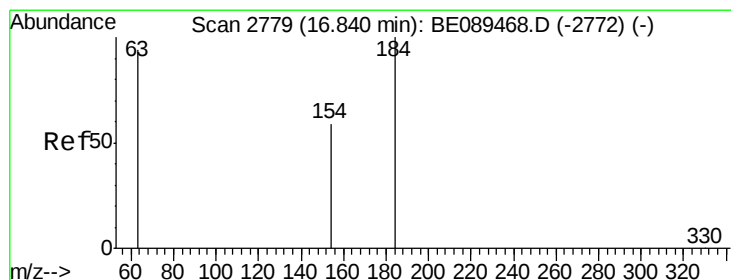
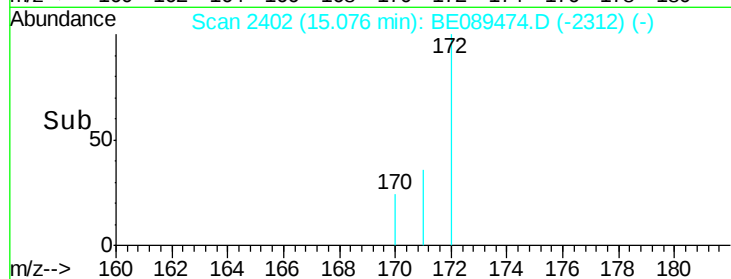
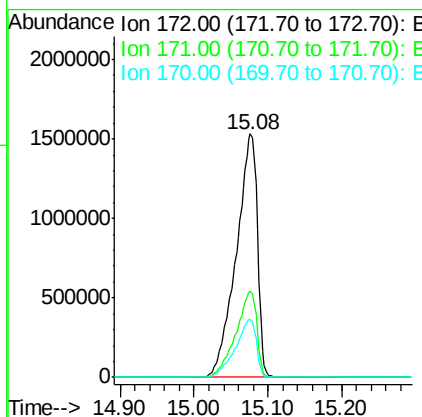
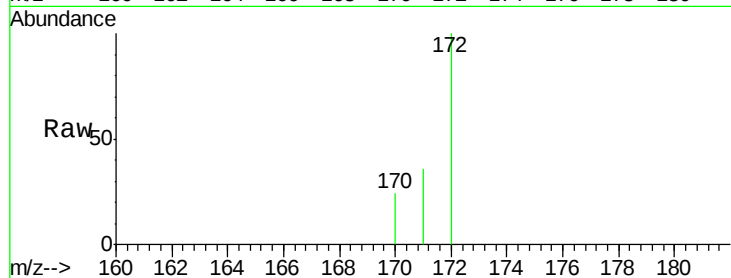




#15
 2-Fluorobiphenyl
 Concen: 18.96 ng
 RT: 15.08 min Scan# 2402
 Delta R.T. 0.01 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

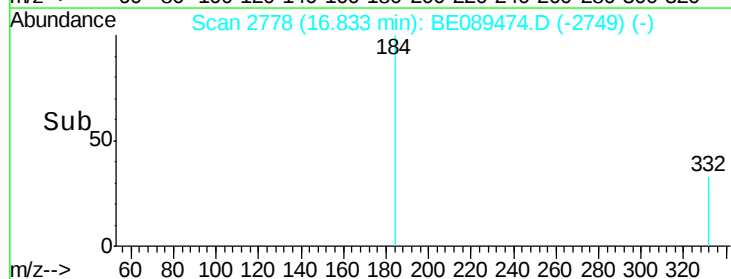
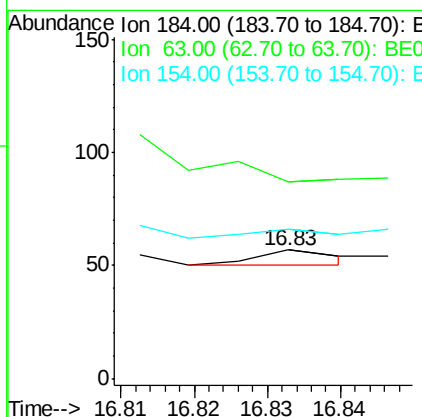
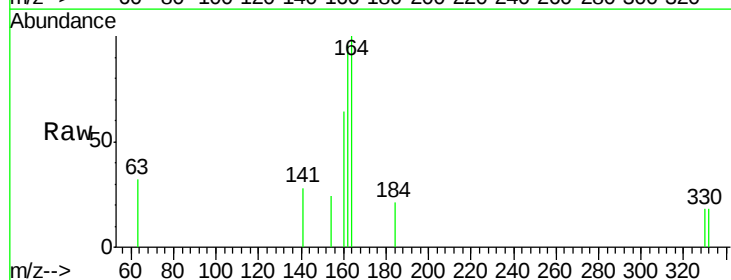
Instrument :
 BNA_E
 ClientSampleId :
 PB81559BL

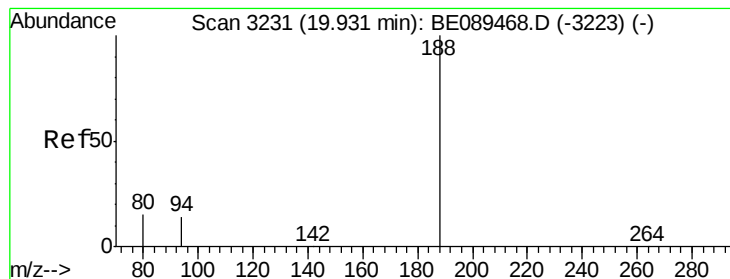
Tgt Ion:172 Resp: 3022830
 Ion Ratio Lower Upper
 172 100
 171 35.5 26.8 40.2
 170 23.8 17.7 26.5



#16
 2,4-Dinitrophenol
 Concen: 0.40 ng
 RT: 16.83 min Scan# 2778
 Delta R.T. -0.01 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

Tgt Ion:184 Resp: 5
 Ion Ratio Lower Upper
 184 100
 63 152.6 92.1 138.1#
 154 115.8 61.4 92.2#





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.94 min Scan# 3232

Delta R.T. 0.01 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampled :

PB81559BL

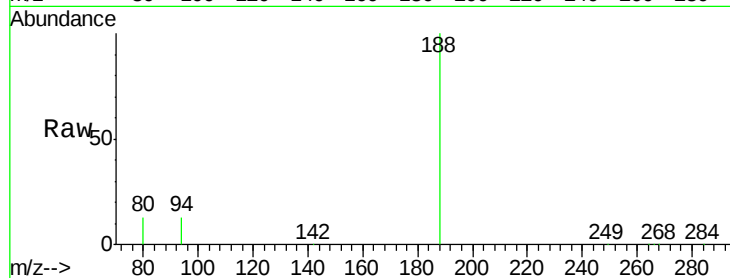
Tgt Ion:188 Resp: 1091313

Ion Ratio Lower Upper

188 100

94 12.7 11.1 16.7

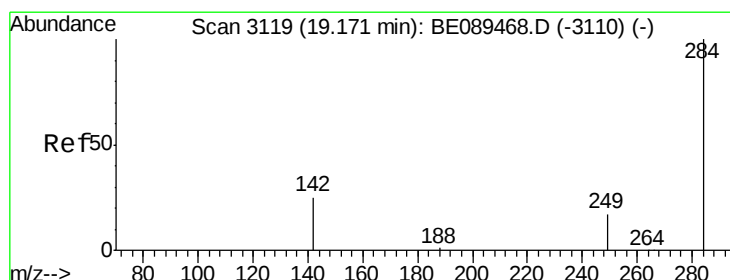
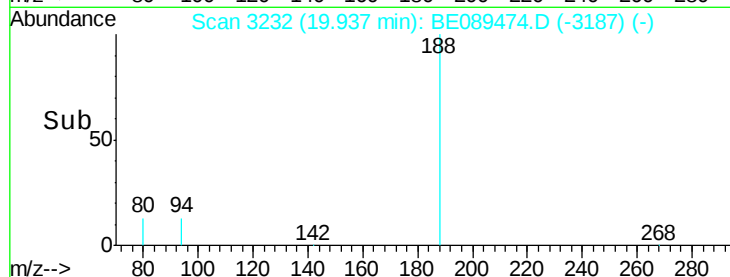
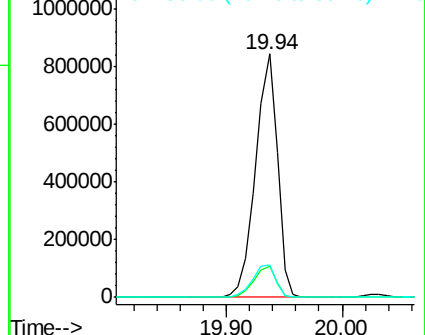
80 13.5 11.8 17.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#18

Hexachlorobenzene

Concen: 0.00 ng

RT: 19.17 min Scan# 3119

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

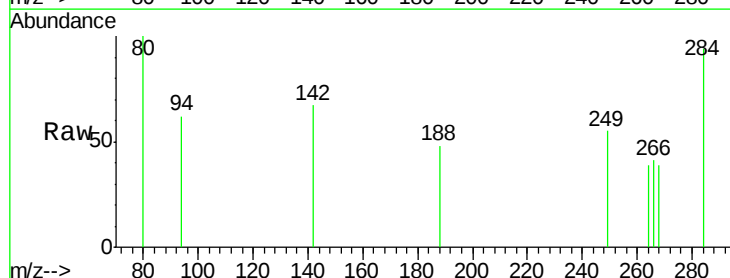
Tgt Ion:284 Resp: 109

Ion Ratio Lower Upper

284 100

142 71.6 24.4 36.6#

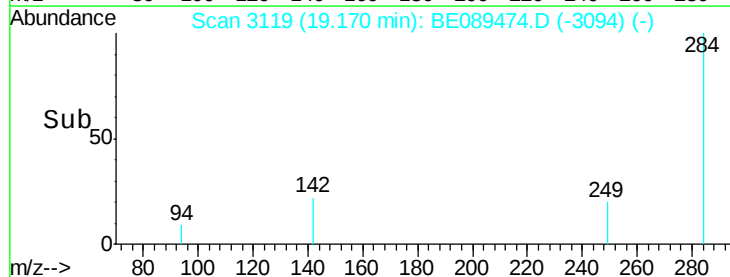
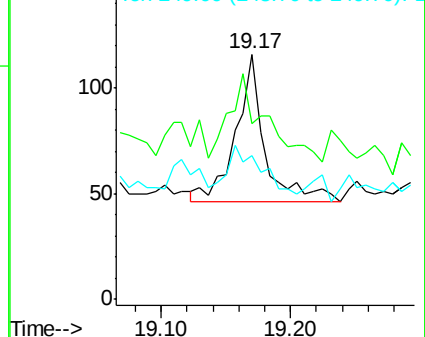
249 58.6 18.2 27.2#

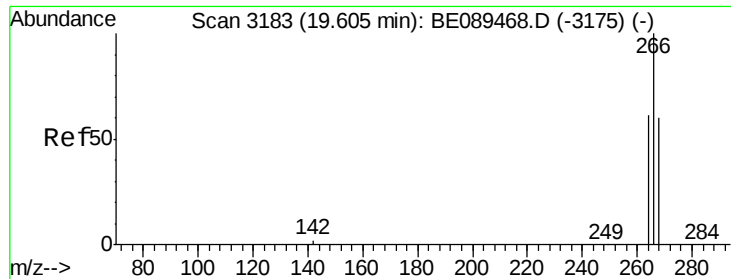


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#19

Pentachlorophenol

Concen: 0.35 ng

RT: 19.60 min Scan# 3183

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

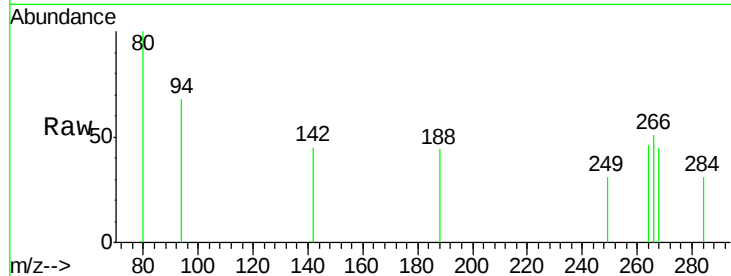
Tgt Ion:266 Resp: 61

Ion Ratio Lower Upper

266 100

268 88.5 50.0 75.0#

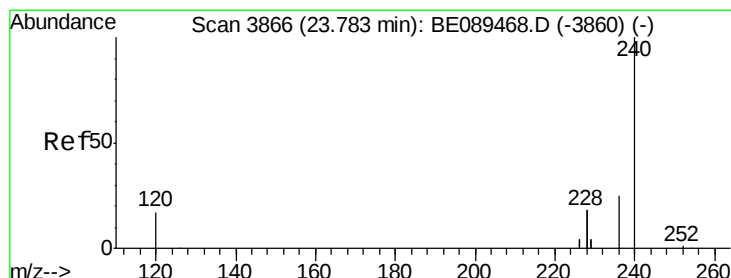
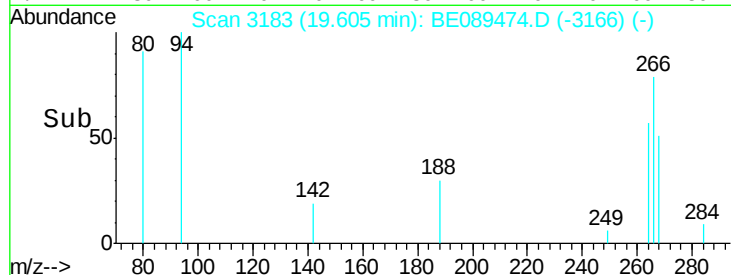
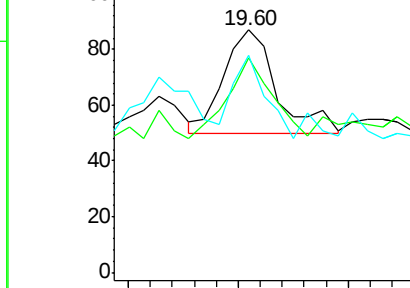
264 89.7 50.6 75.8#



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



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.79 min Scan# 3866

Delta R.T. 0.01 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

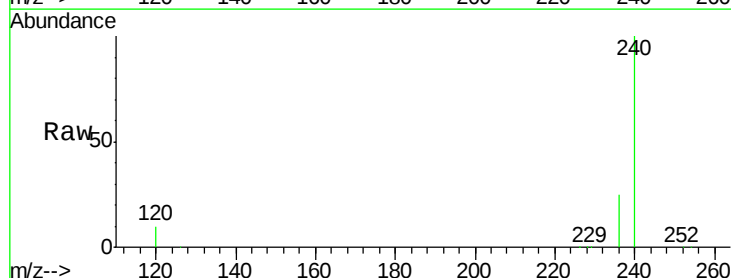
Tgt Ion:240 Resp: 1016124

Ion Ratio Lower Upper

240 100

120 9.6 13.8 20.6#

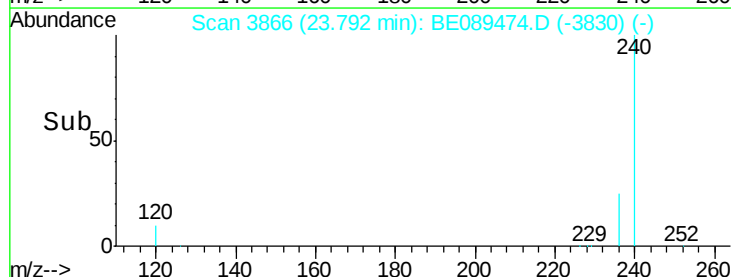
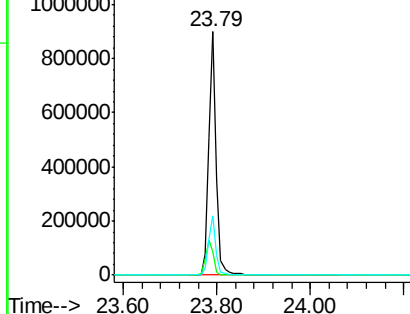
236 24.6 20.2 30.2

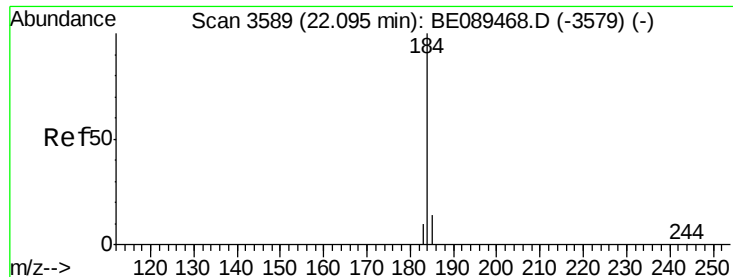


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#21

Benzidine

Concen: 0.09 ng

RT: 22.10 min Scan# 3589

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

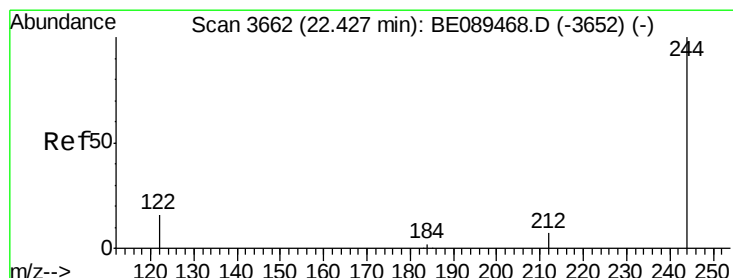
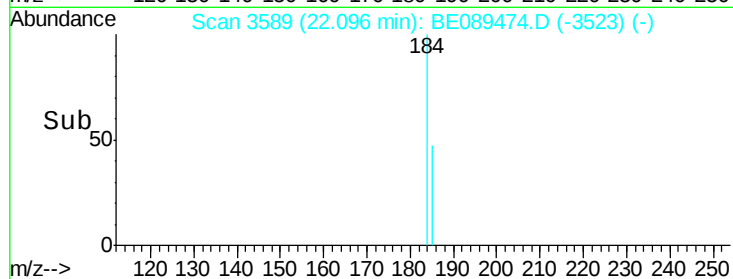
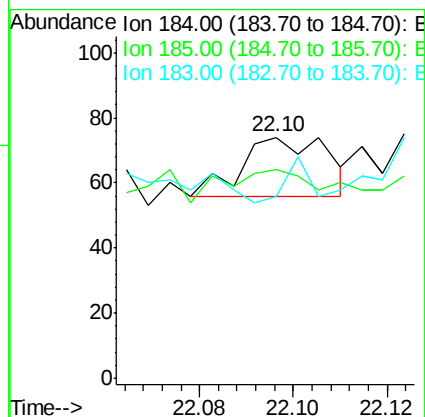
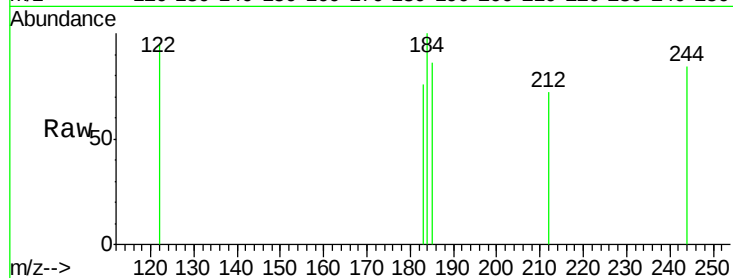
Tgt Ion:184 Resp: 23

Ion Ratio Lower Upper

184 100

185 86.5 12.0 18.0#

183 75.7 9.0 13.4#



#22

Terphenyl-d14

Concen: 19.91 ng

RT: 22.45 min Scan# 3666

Delta R.T. 0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

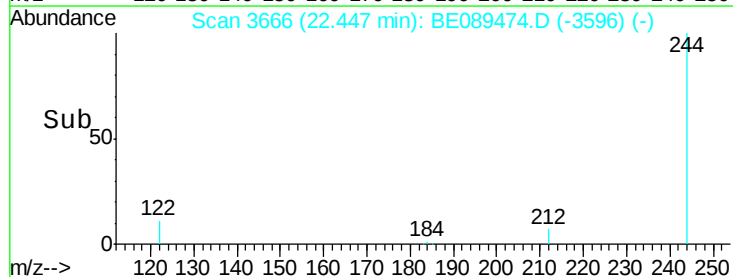
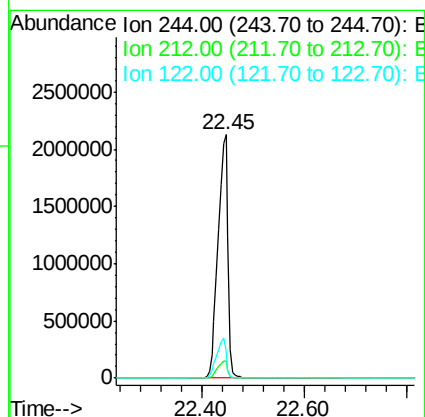
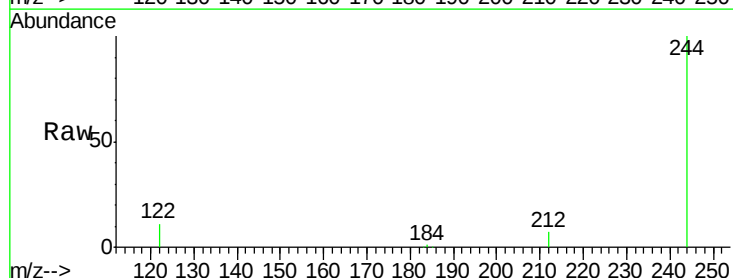
Tgt Ion:244 Resp: 2867672

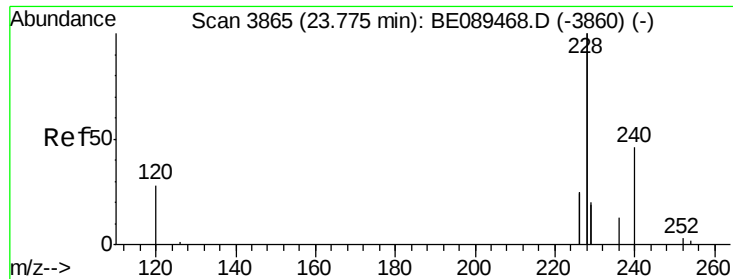
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 10.8 12.6 19.0#





#23

Benzo(a)anthracene

Concen: 0.02 ng

RT: 23.79 min Scan# 3866

Delta R.T. 0.02 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

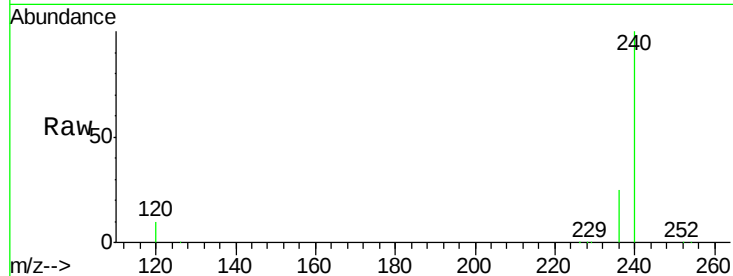
Tgt Ion:228 Resp: 13565

Ion Ratio Lower Upper

228 100

226 11.7 19.6 29.4#

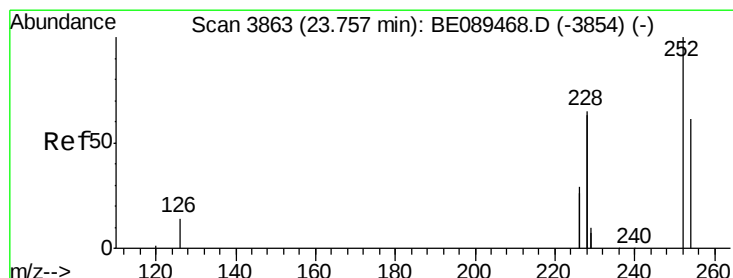
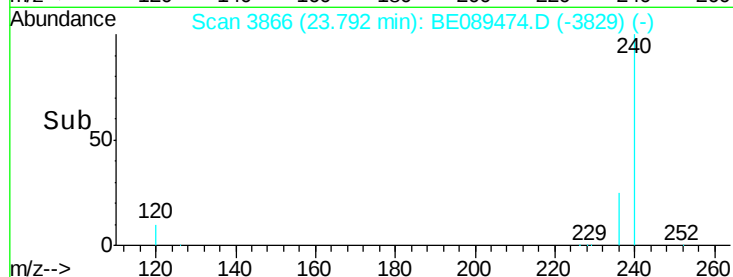
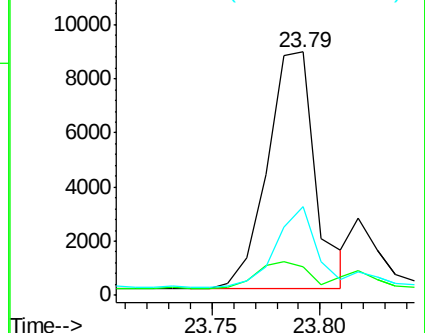
229 36.7 15.9 23.9#



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

3,3'-Dichlorobenzidine

Concen: 0.12 ng

RT: 23.76 min Scan# 3862

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

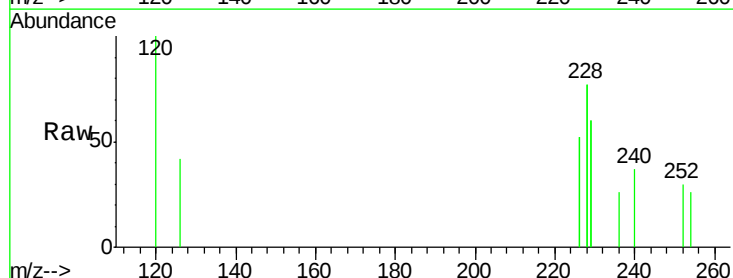
Tgt Ion:252 Resp: 57

Ion Ratio Lower Upper

252 100

254 86.0 48.6 73.0#

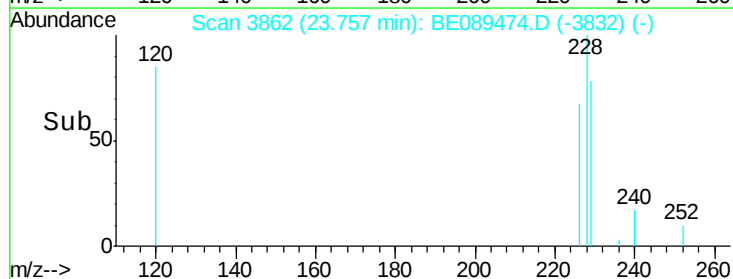
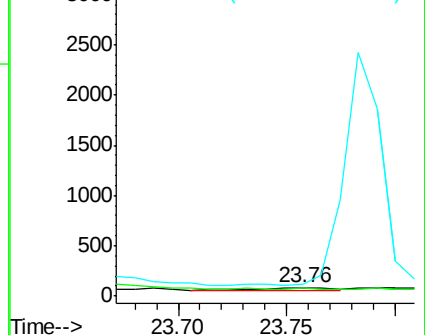
126 138.4 12.4 18.6#

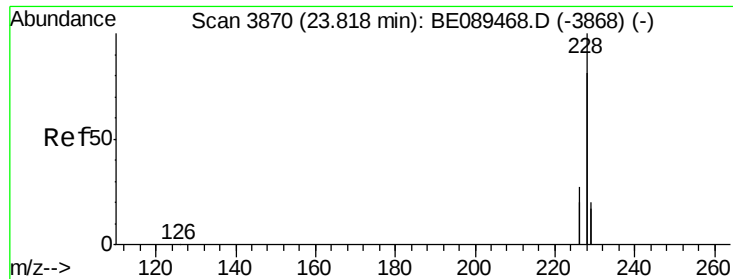


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 0.01 ng

RT: 23.79 min Scan# 3866

Delta R.T. -0.03 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

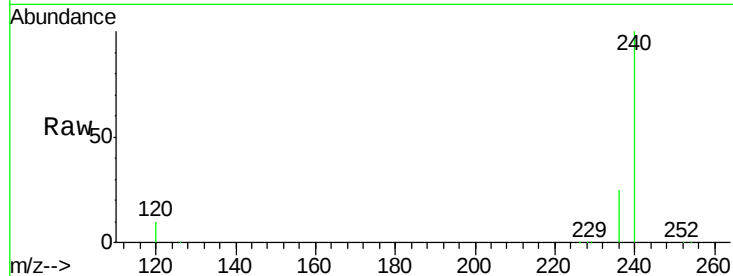
Tgt Ion:228 Resp: 13565

Ion Ratio Lower Upper

228 100

226 11.7 21.8 32.8#

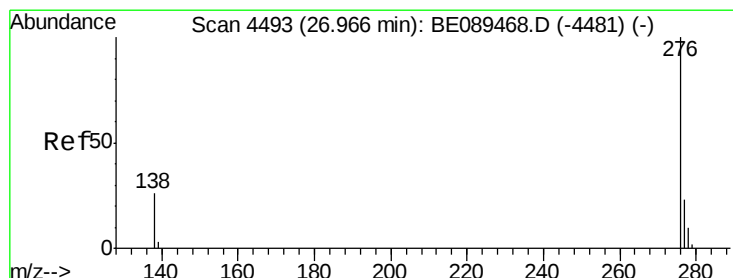
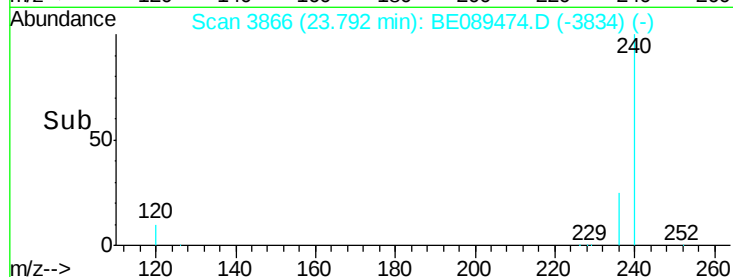
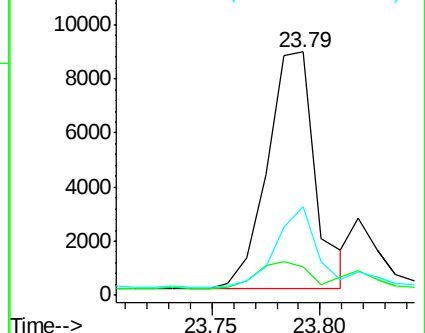
229 36.7 16.2 24.2#



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng

RT: 26.97 min Scan# 4492

Delta R.T. 0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

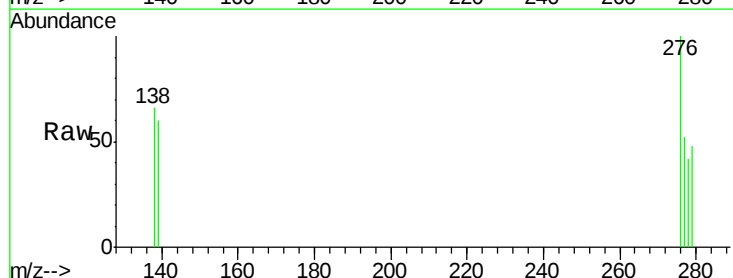
Tgt Ion:276 Resp: 295

Ion Ratio Lower Upper

276 100

138 17.6 24.2 36.4#

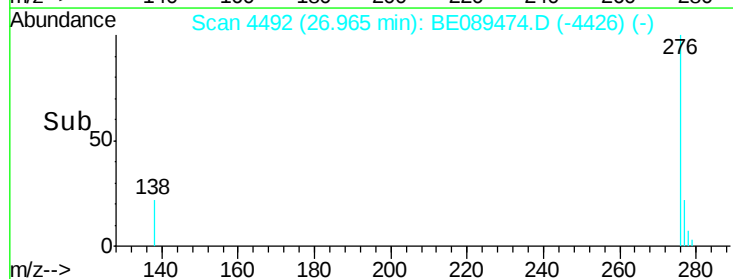
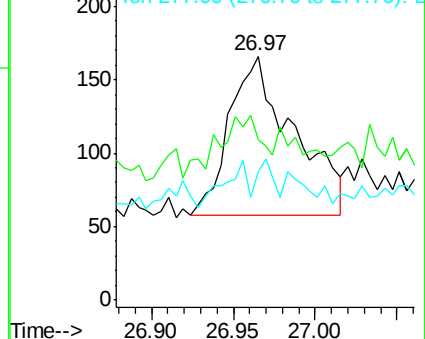
277 5.8 19.9 29.9#

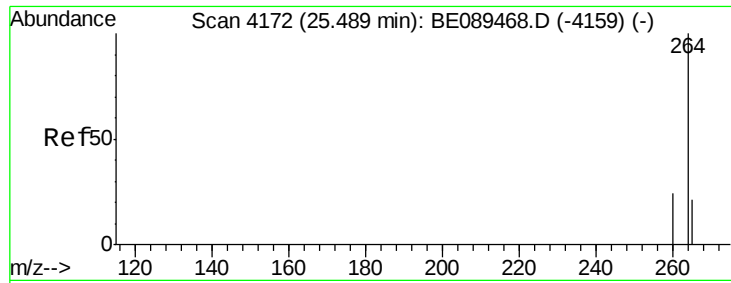


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

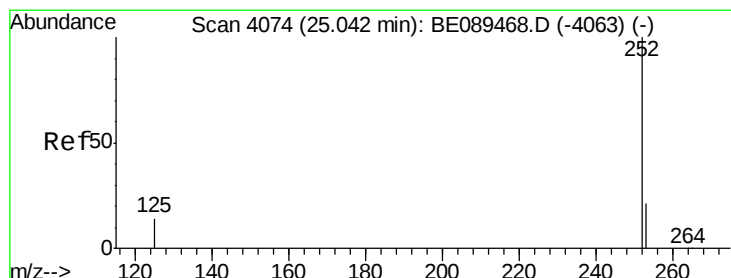
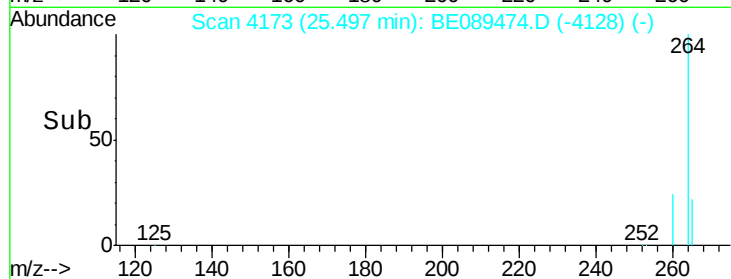
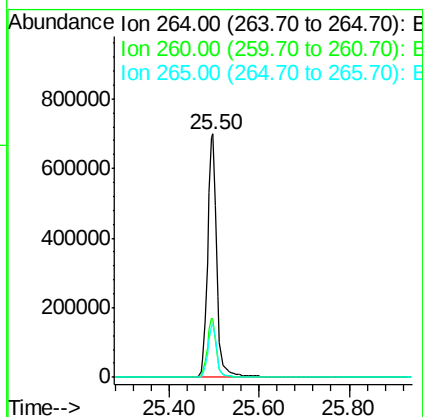
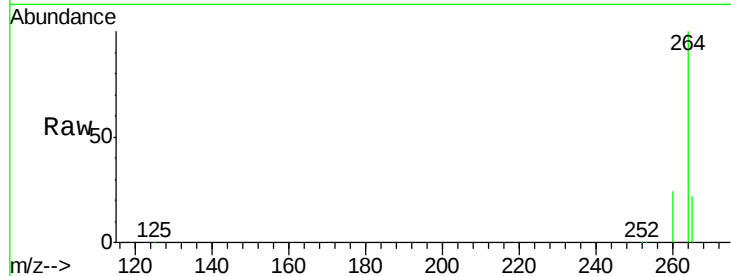




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.50 min Scan# 4173
 Delta R.T. 0.01 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

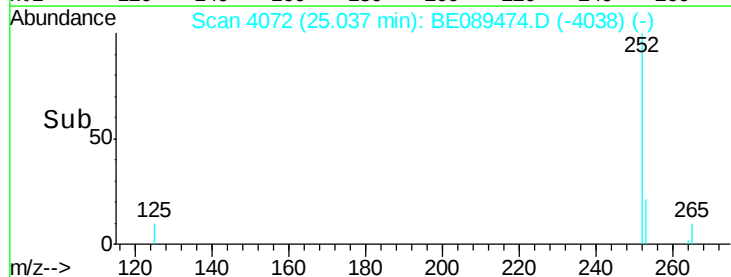
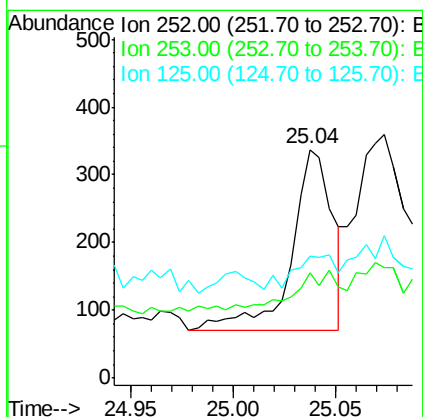
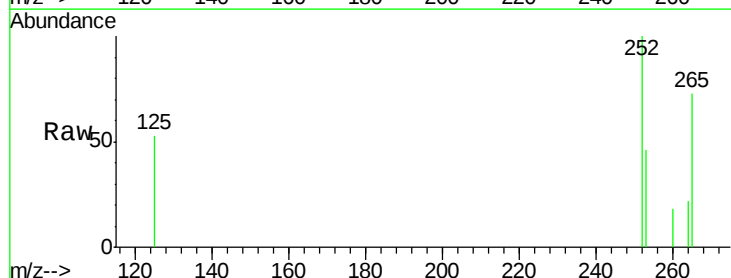
Instrument :
 BNA_E
 ClientSampleId :
 PB81559BL

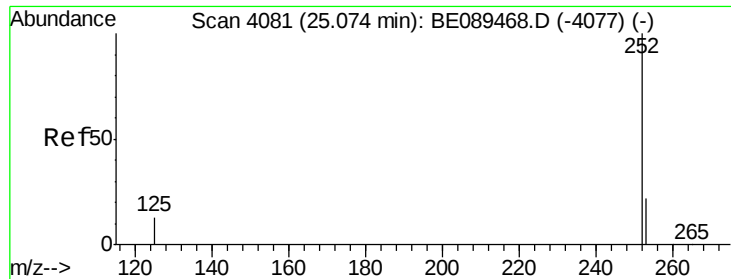
Tgt Ion: 264 Resp: 980976
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.1 28.7
 265 21.9 17.0 25.6



#28
Benzo(b)fluoranthene
 Concen: 0.18 ng
 RT: 25.04 min Scan# 4072
 Delta R.T. -0.00 min
 Lab File: BE089474.D
 Acq: 3 Feb 2015 21:32

Tgt Ion: 252 Resp: 375
 Ion Ratio Lower Upper
 252 100
 253 46.3 17.4 26.2#
 125 53.1 11.3 16.9#





#29

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 25.07 min Scan# 4080

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL

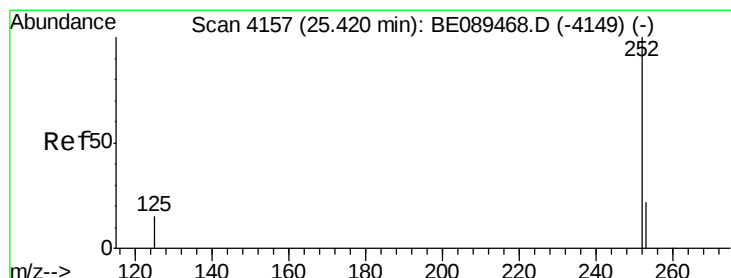
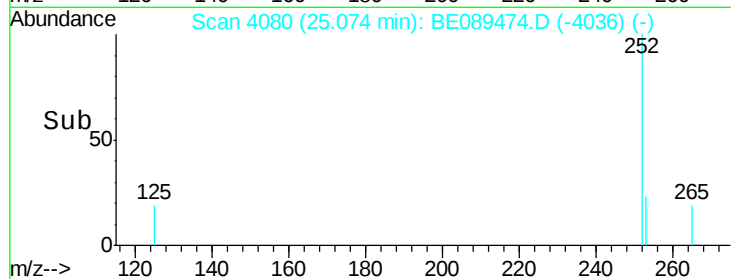
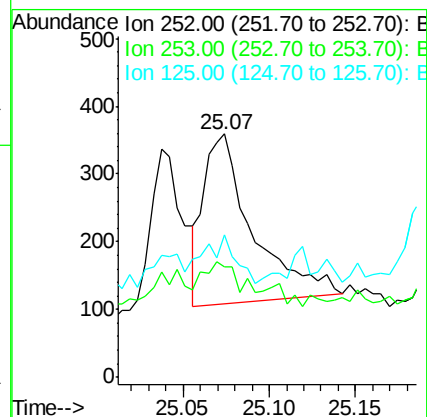
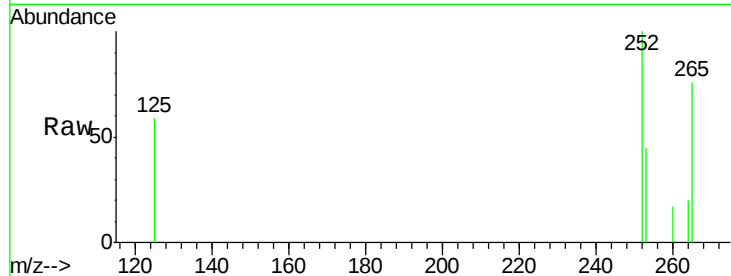
Tgt Ion:252 Resp: 495

Ion Ratio Lower Upper

252 100

253 45.4 17.9 26.9#

125 58.8 10.6 15.8#



#30

Benzo(a)pyrene

Concen: 0.17 ng

RT: 25.42 min Scan# 4155

Delta R.T. -0.00 min

Lab File: BE089474.D

Acq: 3 Feb 2015 21:32

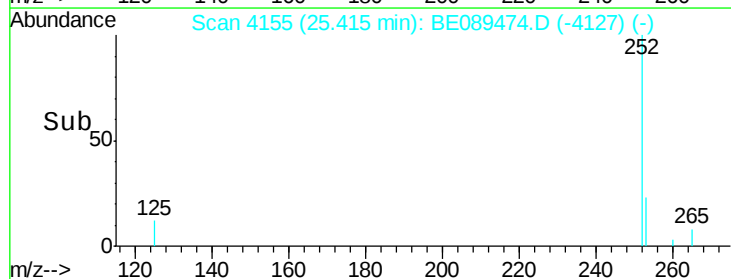
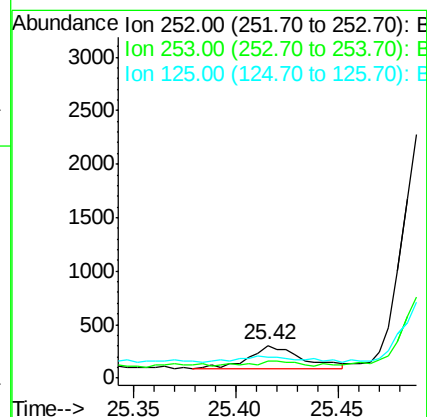
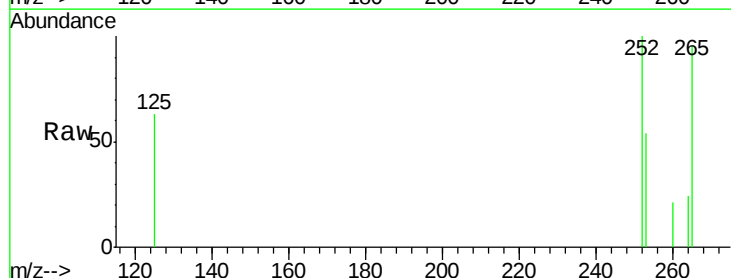
Tgt Ion:252 Resp: 361

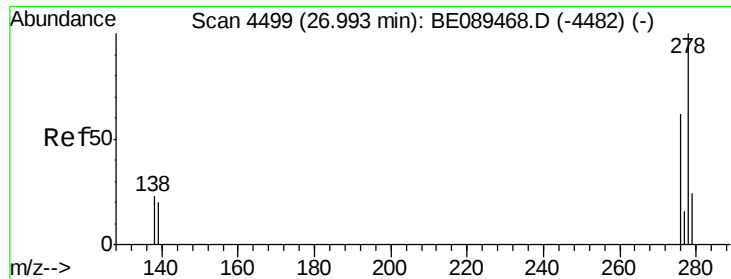
Ion Ratio Lower Upper

252 100

253 53.6 18.2 27.2#

125 63.1 12.2 18.4#





#31

Dibenzo(a,h)anthracene

Concen: 0.15 ng

RT: 26.99 min Scan# 4498

Delta R.T. -0.00 min

Lab File: BE089474.D

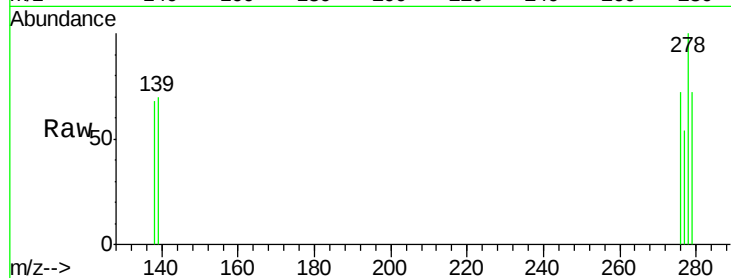
Acq: 3 Feb 2015 21:32

Instrument :

BNA_E

ClientSampleId :

PB81559BL



Tgt Ion: 278 Resp: 150

Ion Ratio Lower Upper

278 100

139 70.3 16.8 25.2#

279 71.7 19.4 29.0#

