

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021715\
 Data File : BE089602.D
 Acq On : 17 Feb 2015 19:45
 Operator : TP/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021715

Quant Time: Feb 18 01:12:00 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 00:56:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	63854	5.00	ng	0.00
7) Naphthalene-d8	12.24	136	255074	5.00	ng	0.00
13) Acenaphthene-d10	16.42	164	127021	5.00	ng	0.00
17) Phenanthrene-d10	19.77	188	251325	5.00	ng	0.00
20) Chrysene-d12	23.66	240	260389	5.00	ng	0.00
27) Perylene-d12	25.34	264	226636	5.00	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	6.50	112	16518	0.93	ng	0.00
4) Phenol-d6	8.62	99	21435	0.90	ng	0.00
8) Nitrobenzene-d5	10.61	82	11301	1.07	ng	0.00
14) 2,4,6-Tribromophenol	18.31	330	2135	0.81	ng	0.00
15) 2-Fluorobiphenyl	14.88	172	32818	0.96	ng	0.00
22) Terphenyl-d14	22.30	244	34683	0.98	ng	0.00

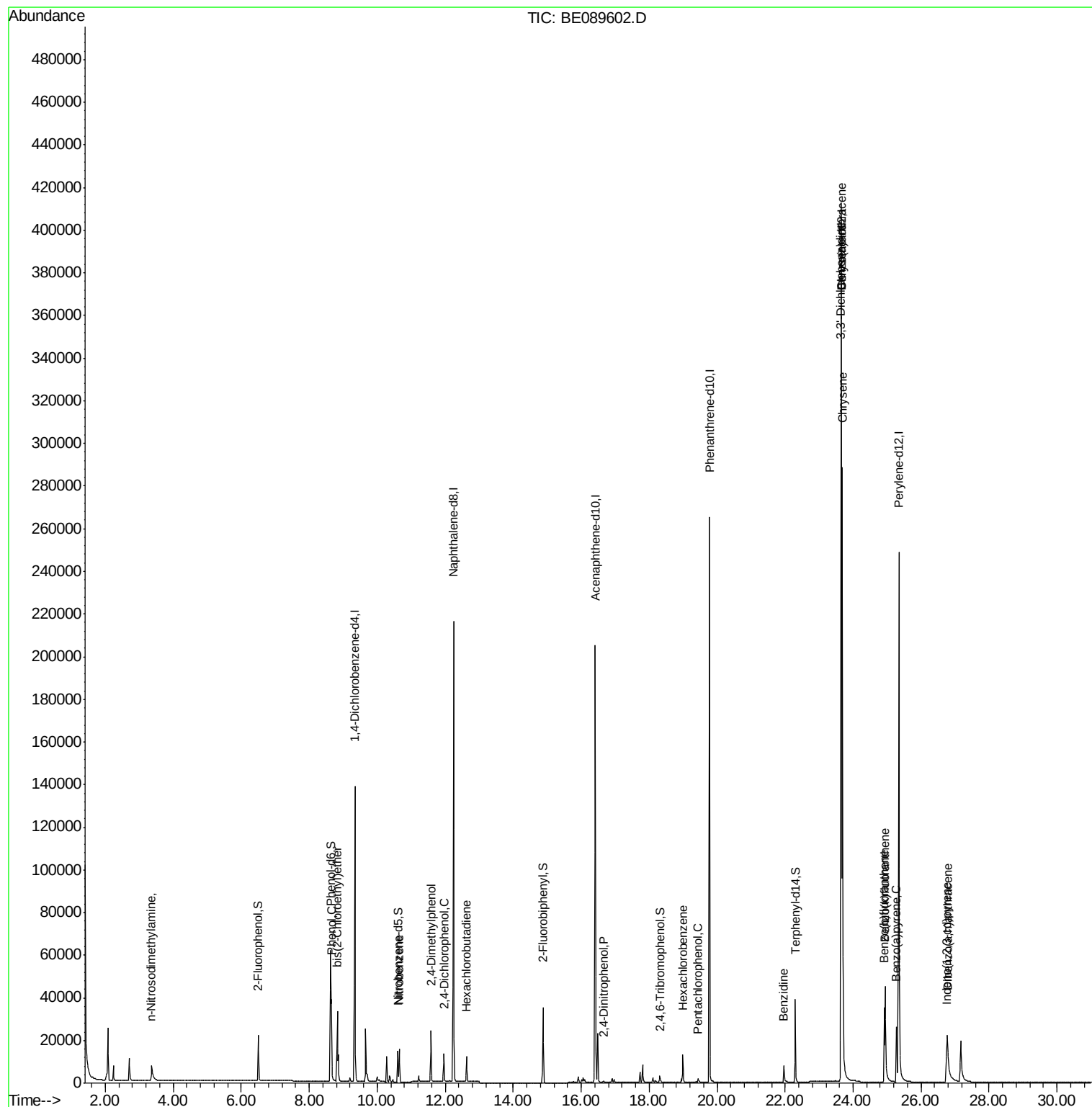
Target Compounds				Qvalue		
2) n-Nitrosodimethylamine	3.36	42	7095	0.77	ng	93
5) Phenol	8.65	94	23122	0.90	ng	97
6) bis(2-Chloroethyl)ether	8.83	93	17806	0.91	ng	# 100
9) Nitrobenzene	10.65	77	13951	1.12	ng	99
10) 2,4-Dimethylphenol	11.58	122	13169	0.92	ng	99
11) 2,4-Dichlorophenol	11.96	162	10571	0.93	ng	99
12) Hexachlorobutadiene	12.63	225	7593	0.97	ng	99
16) 2,4-Dinitrophenol	16.65	184	408	0.91	ng	99
18) Hexachlorobenzene	18.99	284	10378	0.98	ng	95
19) Pentachlorophenol	19.44	266	1335	0.74	ng	99
21) Benzidine	21.96	184	11426	0.58	ng	99
23) Benzo(a)anthracene	23.64	228	217894	0.89	ng	100
24) 3,3'-Dichlorobenzidine	23.63	252	11327	0.72	ng	100
25) Chrysene	23.69	228	241262	0.96	ng	99
26) Indeno(1,2,3-cd)pyrene	26.75	276	41944	0.76	ng	# 100
28) Benzo(b)fluoranthene	24.92	252	33276	0.78	ng	100
29) Benzo(k)fluoranthene	24.94	252	61658	1.01	ng	100
30) Benzo(a)pyrene	25.28	252	32790	0.81	ng	99
31) Dibenzo(a,h)anthracene	26.78	278	32385	0.80	ng	100

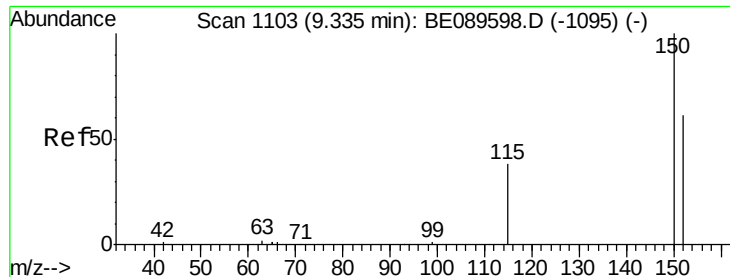
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1104

Delta R.T. 0.01 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

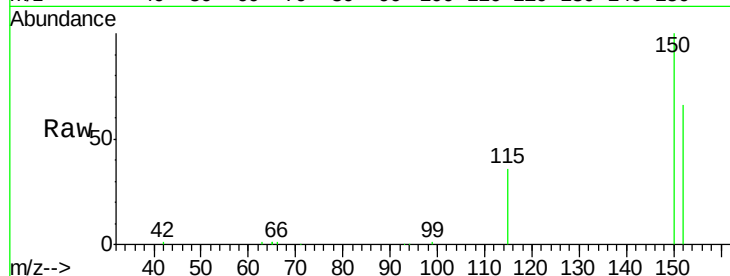
Tgt Ion:152 Resp: 63854

Ion Ratio Lower Upper

152 100

150 152.5 130.7 196.1

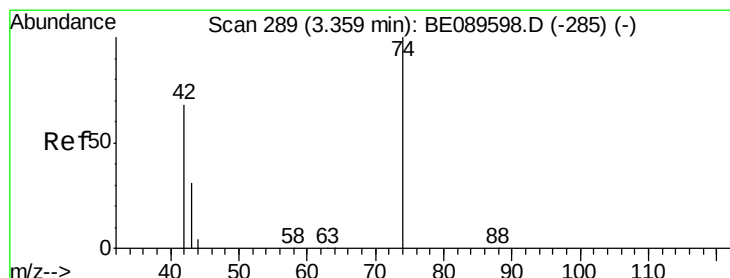
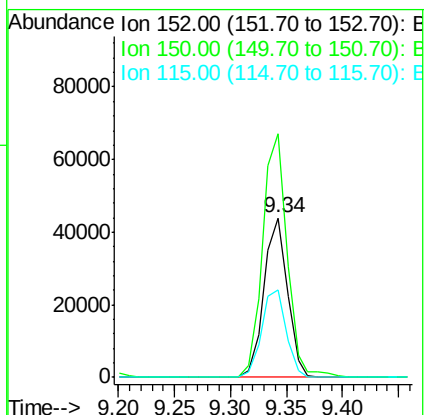
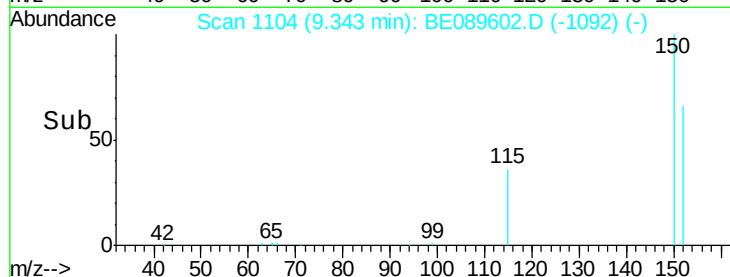
115 54.7 49.6 74.4



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: 0.77 ng

RT: 3.36 min Scan# 289

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

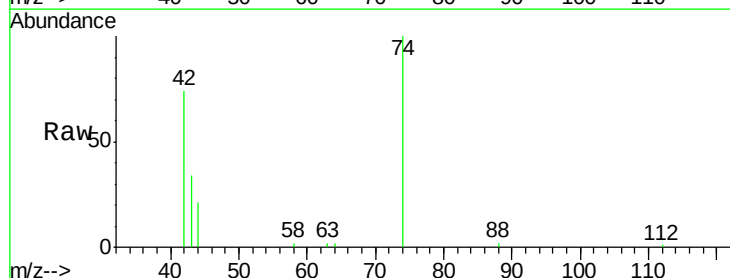
Tgt Ion: 42 Resp: 7095

Ion Ratio Lower Upper

42 100

74 135.1 114.6 171.8

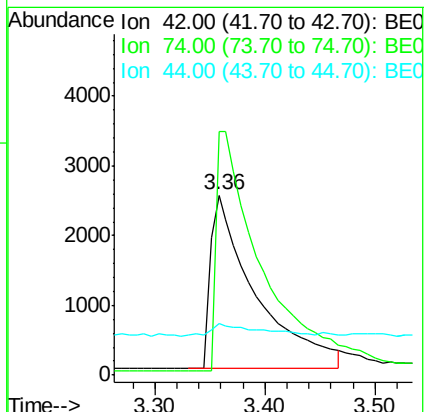
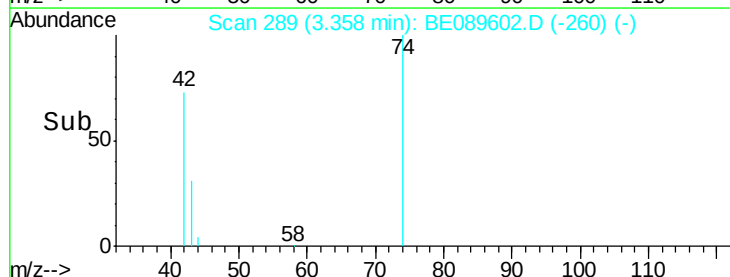
44 28.5 27.5 41.3

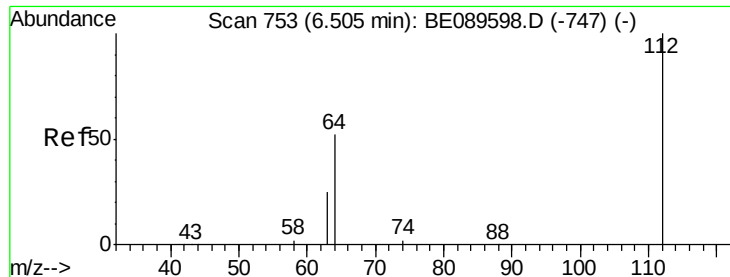


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 0.93 ng

RT: 6.50 min Scan# 753

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

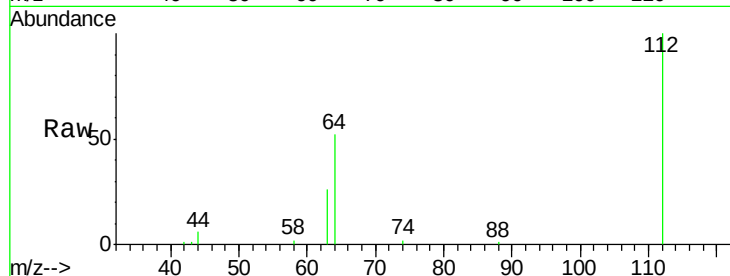
Tgt Ion: 112 Resp: 16518

Ion Ratio Lower Upper

112 100

64 52.4 41.7 62.5

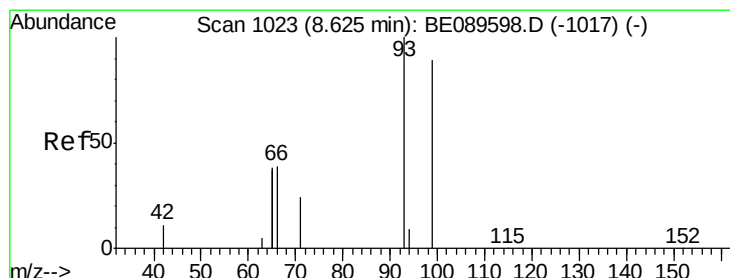
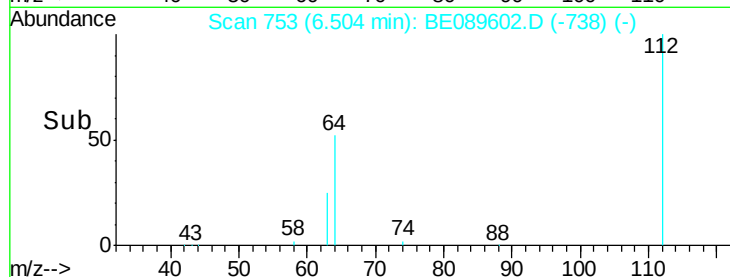
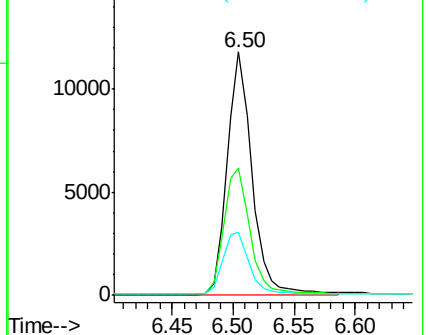
63 25.8 20.3 30.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#4

Phenol-d6

Concen: 0.90 ng

RT: 8.62 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

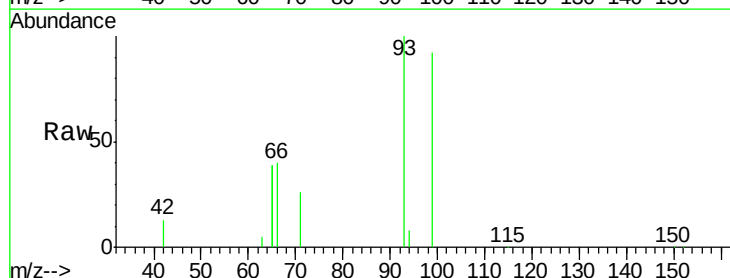
Tgt Ion: 99 Resp: 21435

Ion Ratio Lower Upper

99 100

42 14.1 10.8 16.2

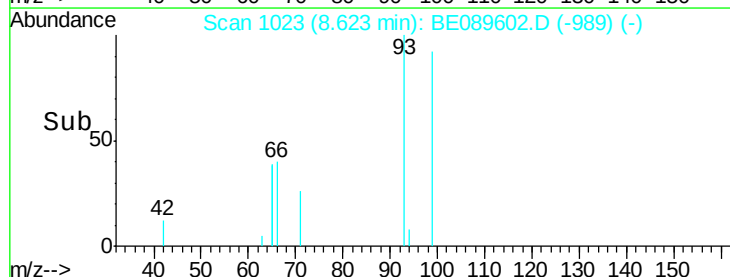
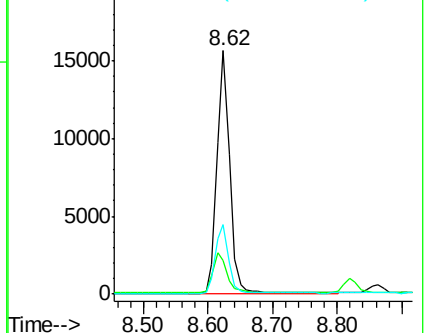
71 28.4 21.8 32.6

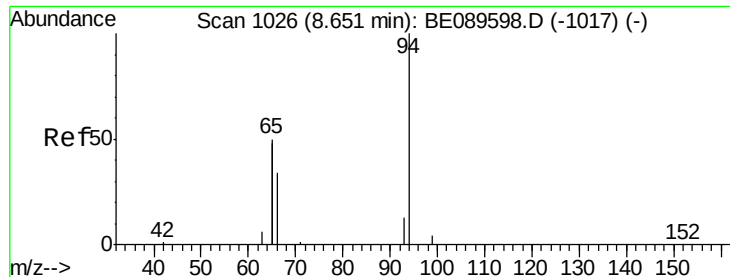


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 0.90 ng

RT: 8.65 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

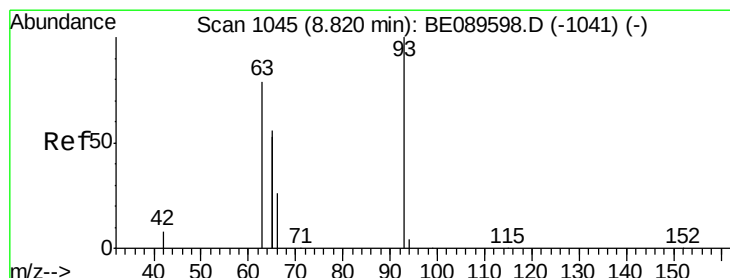
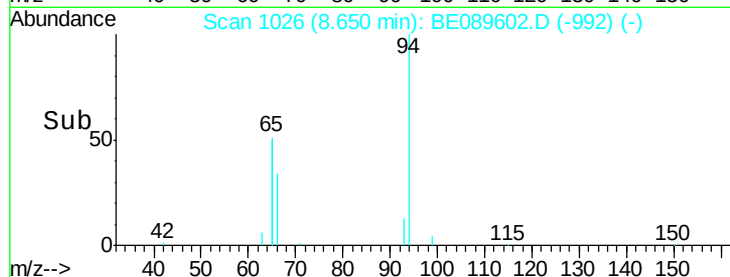
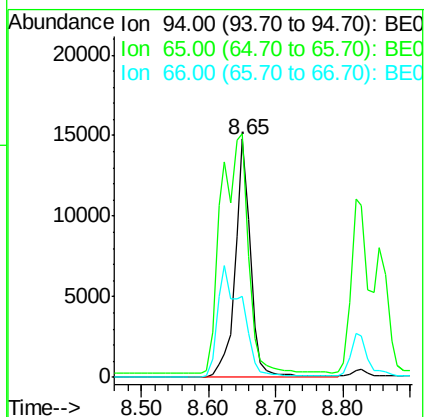
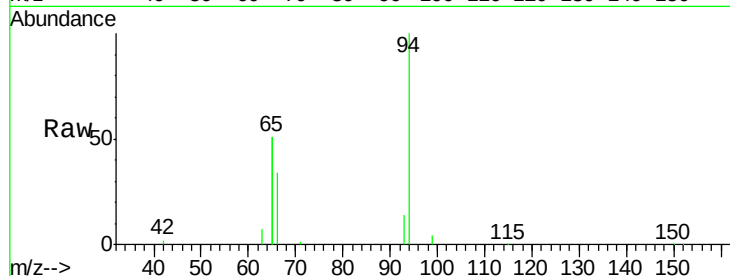
Tgt Ion: 94 Resp: 23122

Ion Ratio Lower Upper

94 100

65 102.2 78.6 118.6

66 34.3 14.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 0.91 ng

RT: 8.83 min Scan# 1046

Delta R.T. 0.01 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

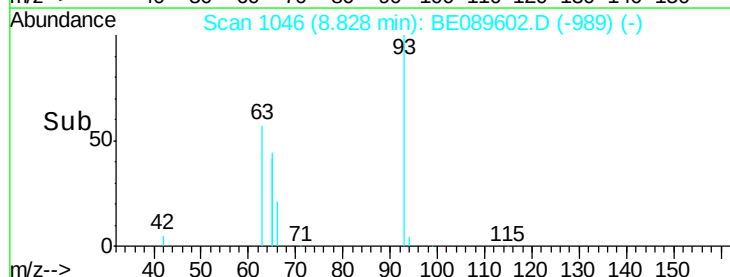
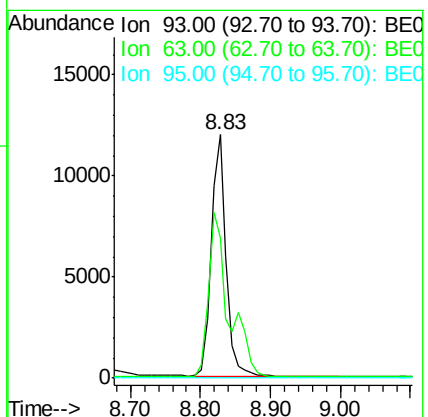
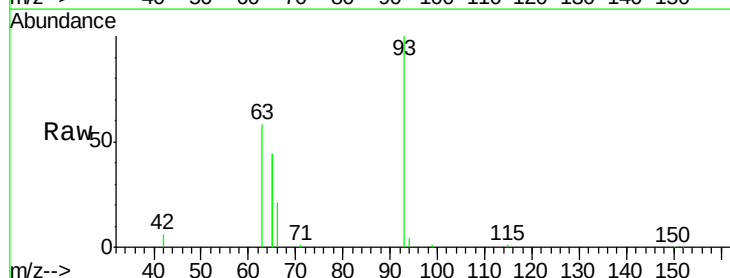
Tgt Ion: 93 Resp: 17806

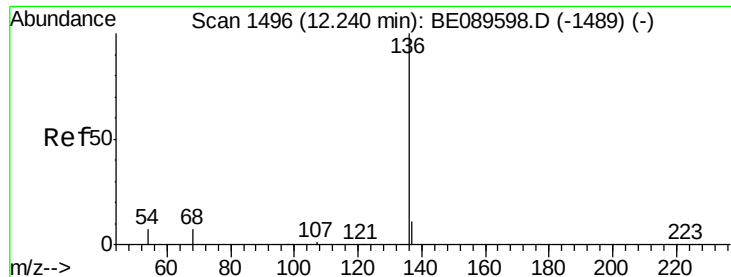
Ion Ratio Lower Upper

93 100

63 93.0 74.6 112.0

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

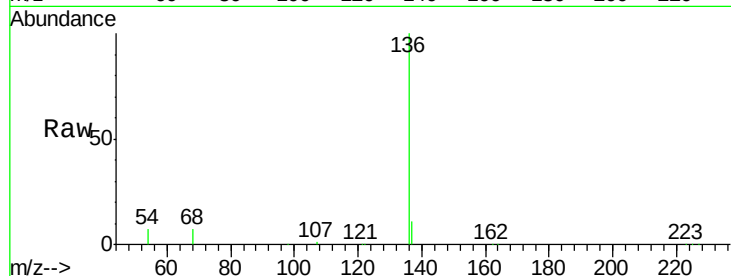
Tgt Ion:136 Resp: 255074

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

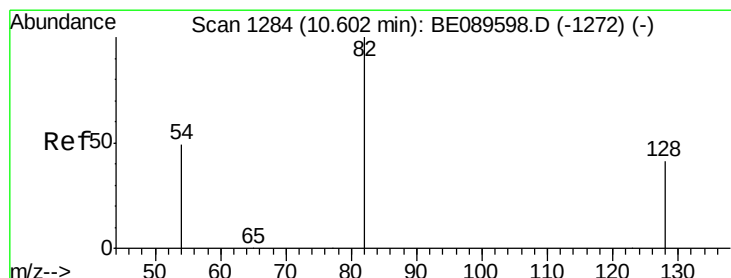
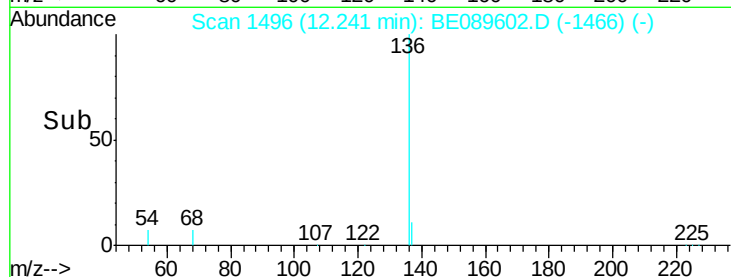
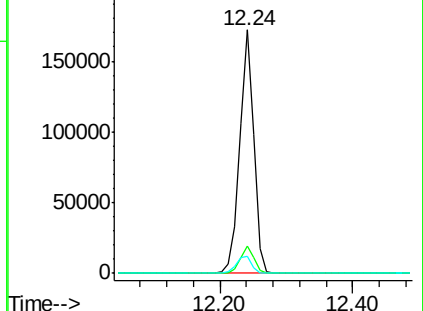
54 7.1 5.7 8.5



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: 1.07 ng

RT: 10.61 min Scan# 1285

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

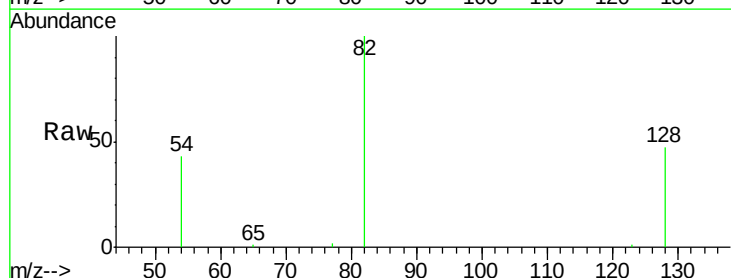
Tgt Ion: 82 Resp: 11301

Ion Ratio Lower Upper

82 100

128 46.6 33.2 49.8

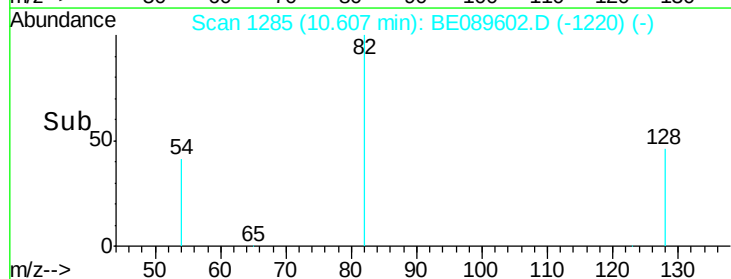
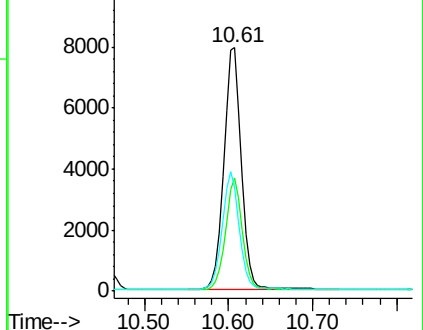
54 42.8 39.6 59.4

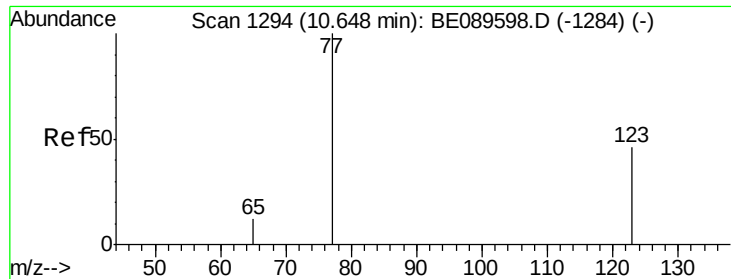


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 1.12 ng

RT: 10.65 min Scan# 1294

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

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ClientSampleId :

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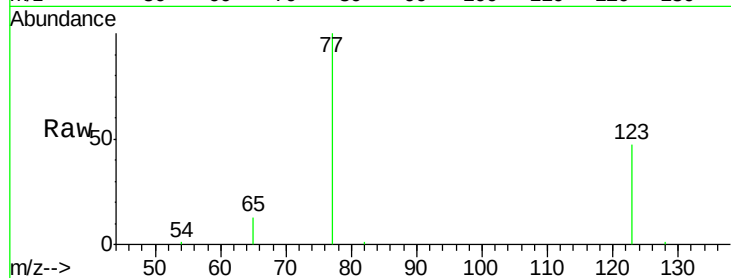
Tgt Ion: 77 Resp: 13951

Ion Ratio Lower Upper

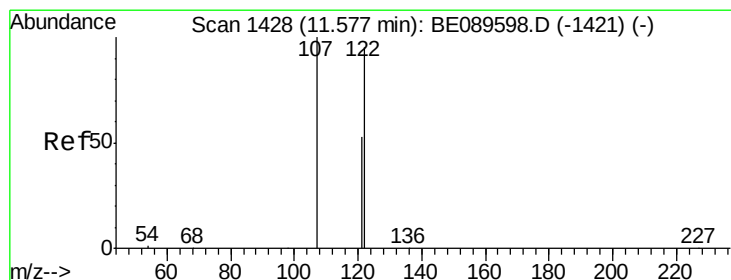
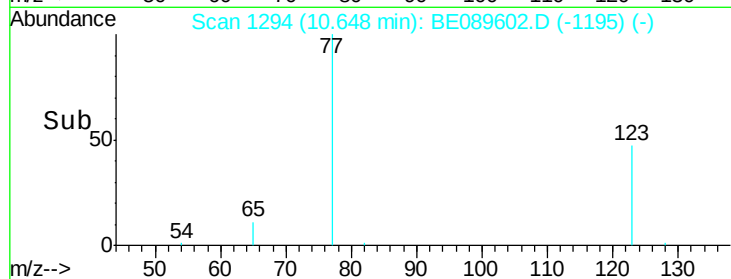
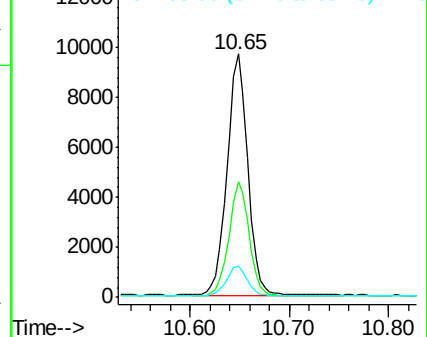
77 100

123 46.6 36.5 54.7

65 12.6 10.2 15.4



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: 0.92 ng

RT: 11.58 min Scan# 1428

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

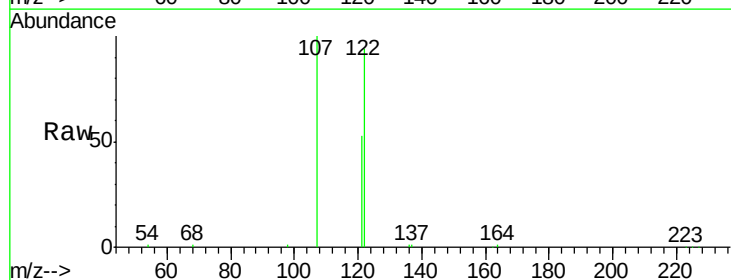
Tgt Ion: 122 Resp: 13169

Ion Ratio Lower Upper

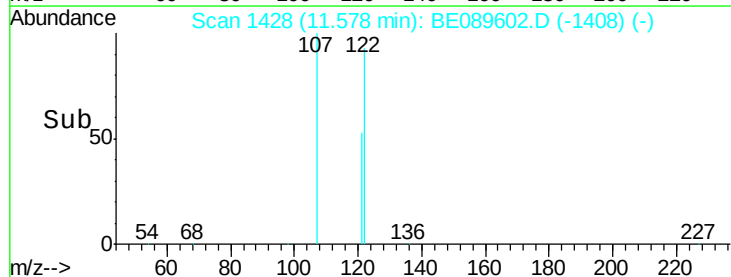
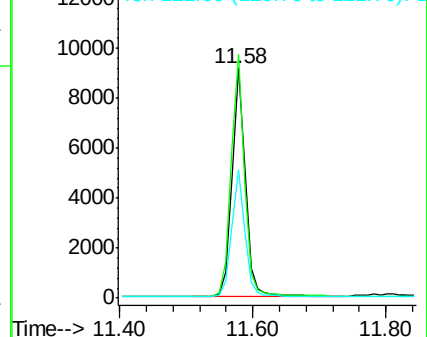
122 100

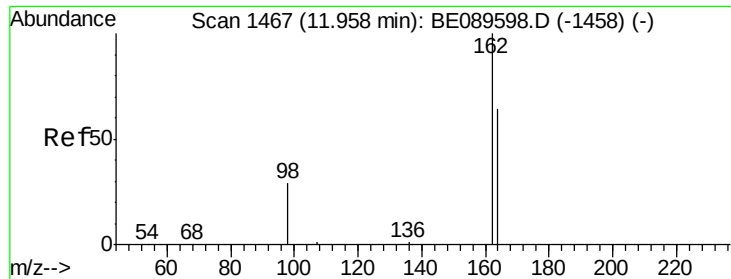
107 106.2 83.9 125.9

121 56.2 44.9 67.3



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

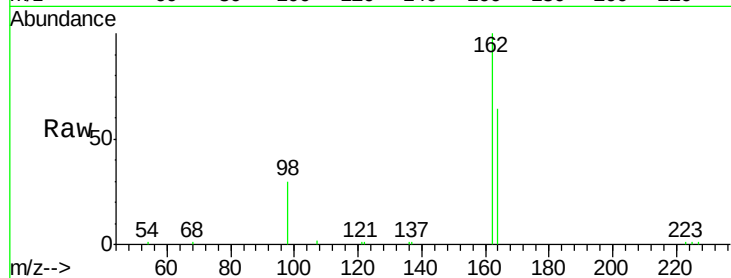




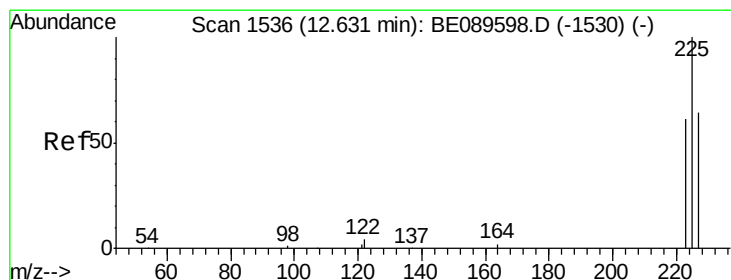
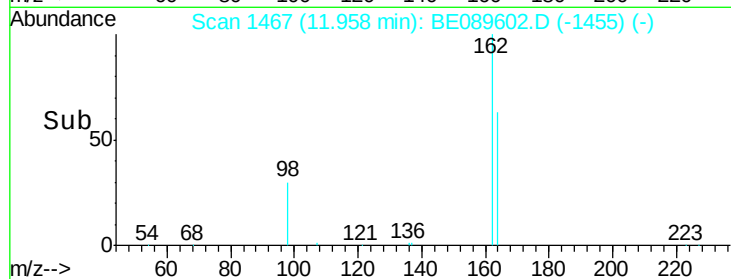
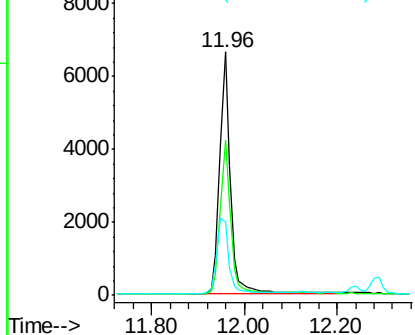
#11
 2,4-Dichlorophenol
 Concen: 0.93 ng
 RT: 11.96 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

Instrument :
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 ClientSampleId :
 ICVBE021715

Tgt Ion:162 Resp: 10571
 Ion Ratio Lower Upper
 162 100
 164 63.7 44.7 84.7
 98 30.4 10.3 50.3

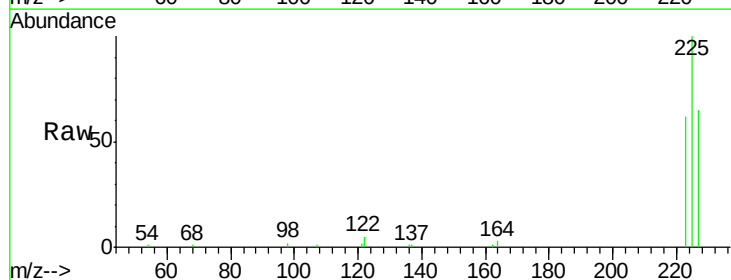


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

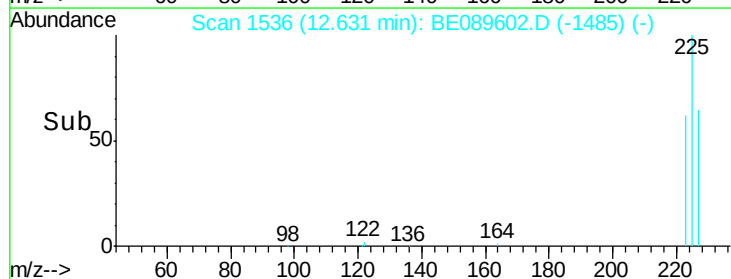
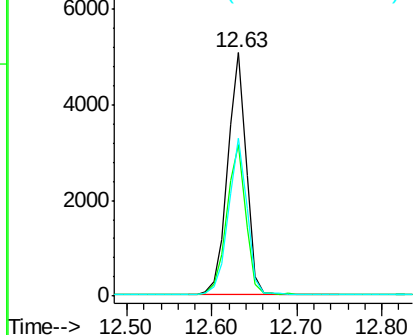


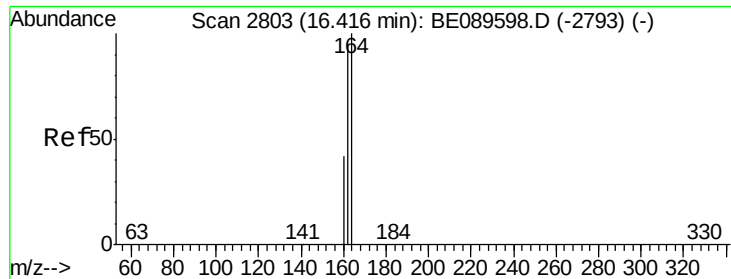
#12
 Hexachlorobutadiene
 Concen: 0.97 ng
 RT: 12.63 min Scan# 1536
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

Tgt Ion:225 Resp: 7593
 Ion Ratio Lower Upper
 225 100
 223 62.8 50.3 75.5
 227 64.0 50.6 75.8



Abundance Ion 225.00 (224.70 to 225.70): E
 Ion 223.00 (222.70 to 223.70): E
 Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2803

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

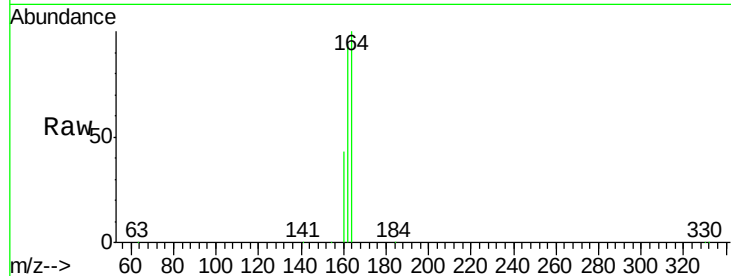
Tgt Ion:164 Resp: 127021

Ion Ratio Lower Upper

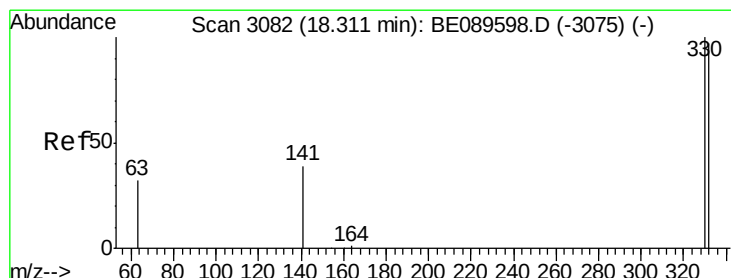
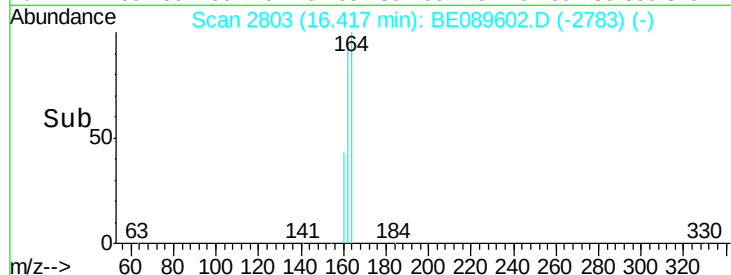
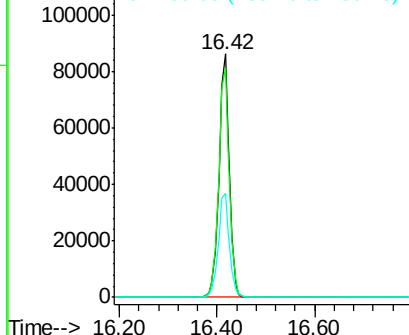
164 100

162 94.4 76.3 114.5

160 42.9 33.9 50.9



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: 0.81 ng

RT: 18.31 min Scan# 3082

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

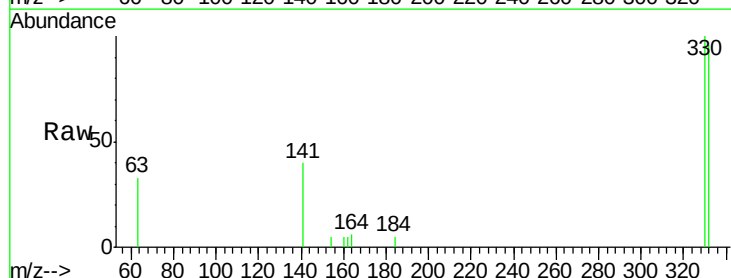
Tgt Ion:330 Resp: 2135

Ion Ratio Lower Upper

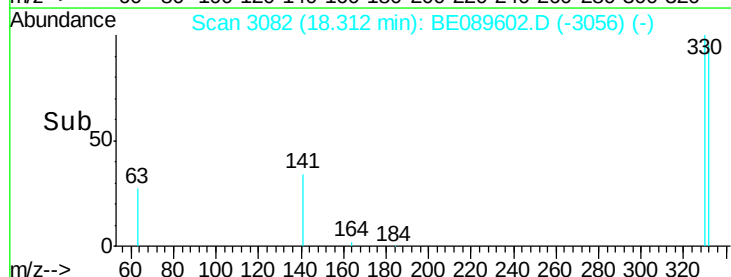
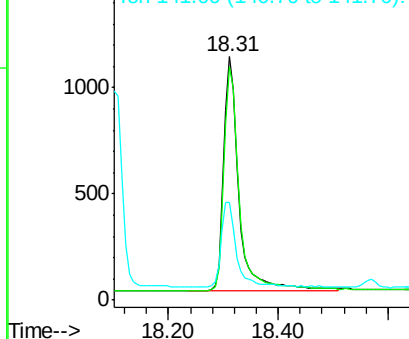
330 100

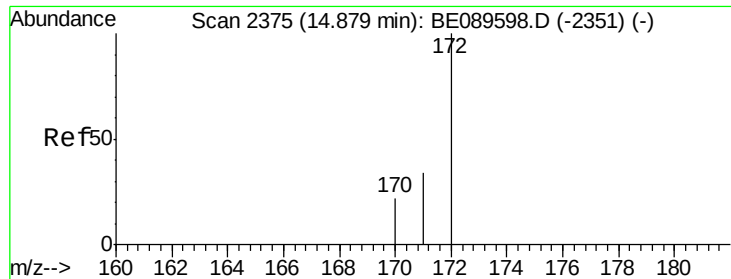
332 97.6 76.7 115.1

141 35.8 30.1 45.1



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

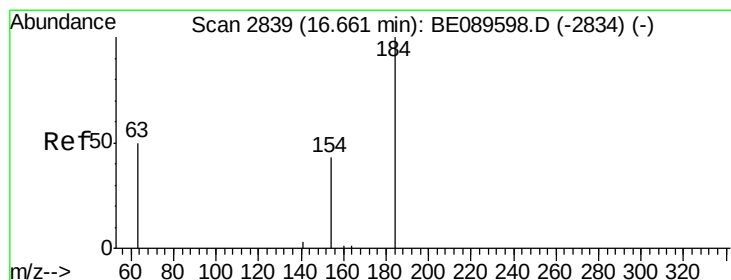
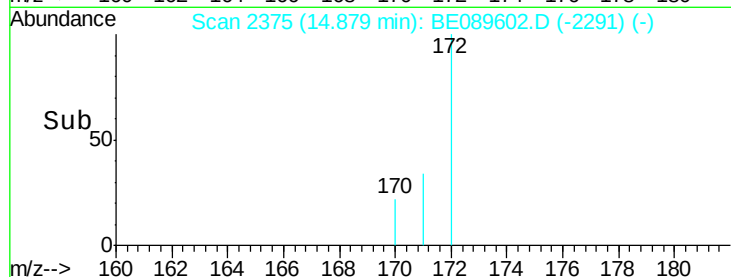
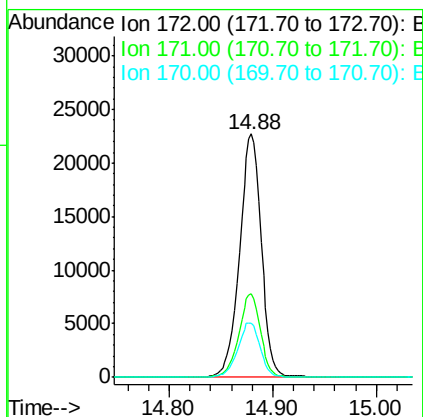
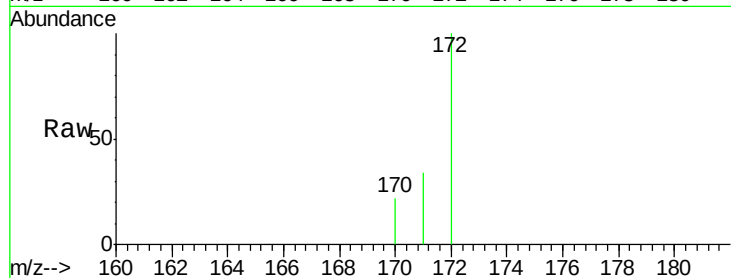




#15
2-Fluorobiphenyl
Concen: 0.96 ng
RT: 14.88 min Scan# 2375
Delta R.T. 0.00 min
Lab File: BE089602.D
Acq: 17 Feb 2015 19:45

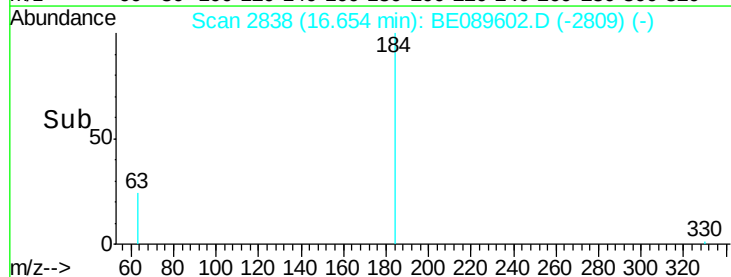
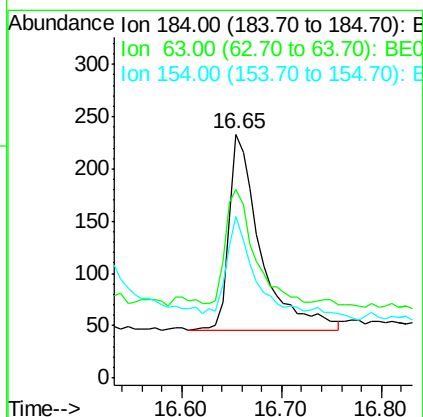
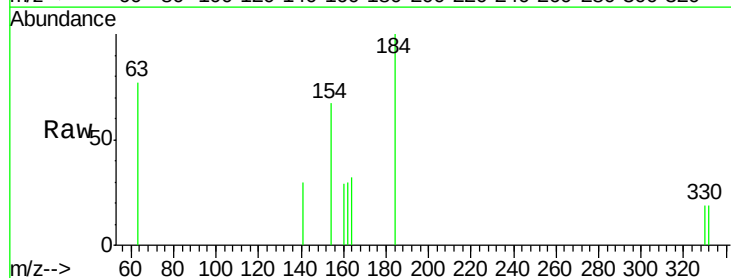
Instrument :
BNA_E
ClientSampleId :
ICVBE021715

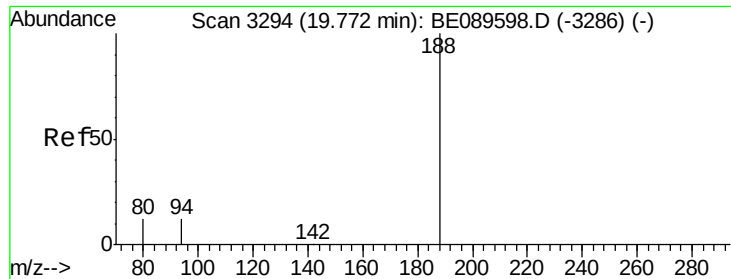
Tgt Ion:172 Resp: 32818
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.0
170 22.5 17.9 26.9



#16
2,4-Dinitrophenol
Concen: 0.91 ng
RT: 16.65 min Scan# 2838
Delta R.T. -0.01 min
Lab File: BE089602.D
Acq: 17 Feb 2015 19:45

Tgt Ion:184 Resp: 408
Ion Ratio Lower Upper
184 100
63 77.3 61.0 91.4
154 66.5 53.4 80.0





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3294

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

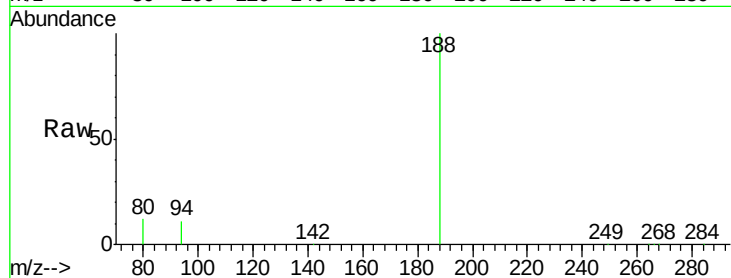
Tgt Ion:188 Resp: 251325

Ion Ratio Lower Upper

188 100

94 11.5 9.4 14.2

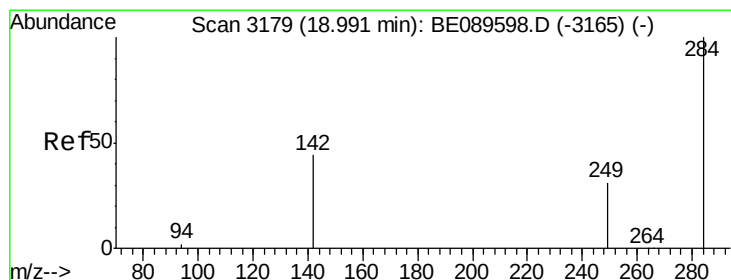
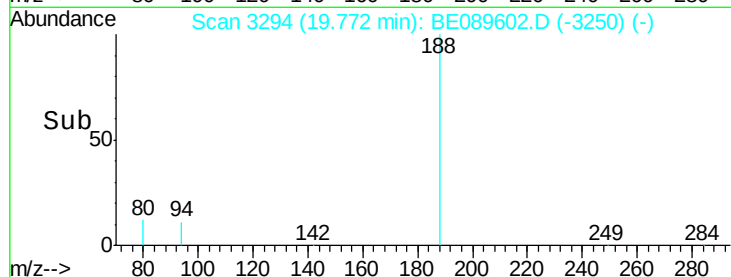
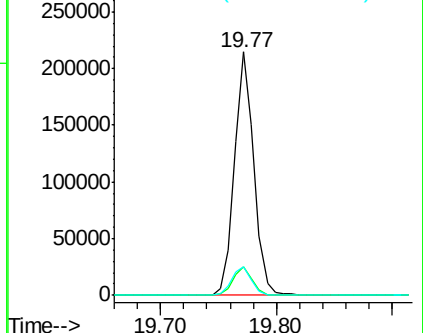
80 11.7 9.8 14.8



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



#18

Hexachlorobenzene

Concen: 0.98 ng

RT: 18.99 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

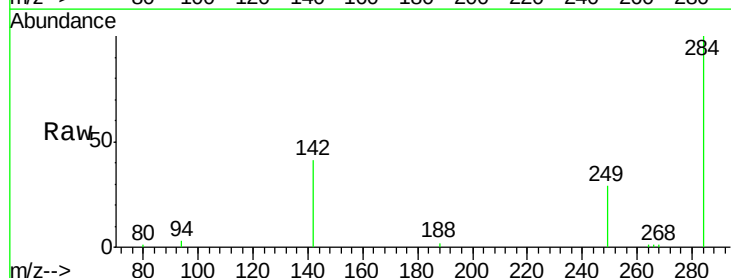
Tgt Ion:284 Resp: 10378

Ion Ratio Lower Upper

284 100

142 41.3 35.6 53.4

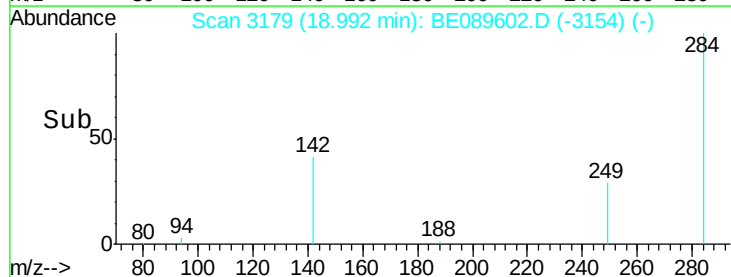
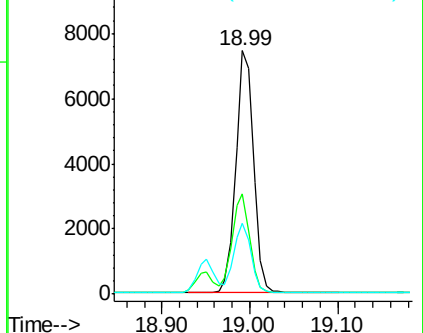
249 29.3 25.2 37.8

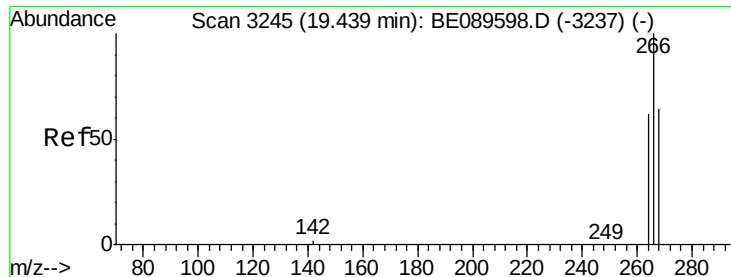


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

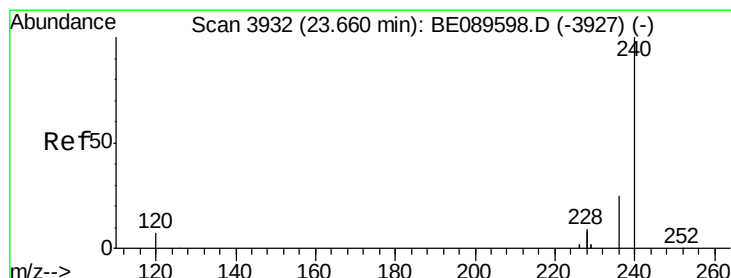
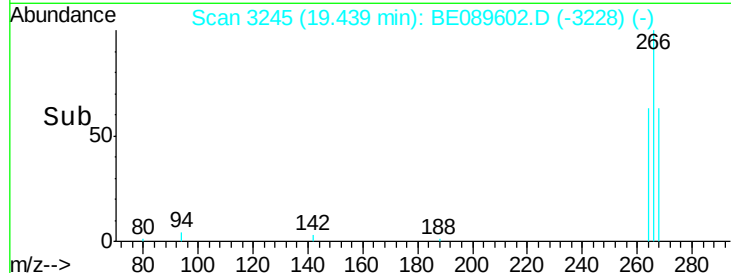
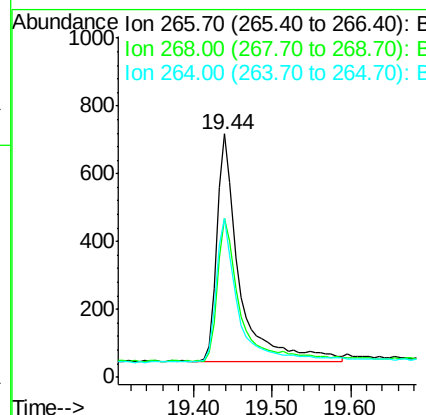
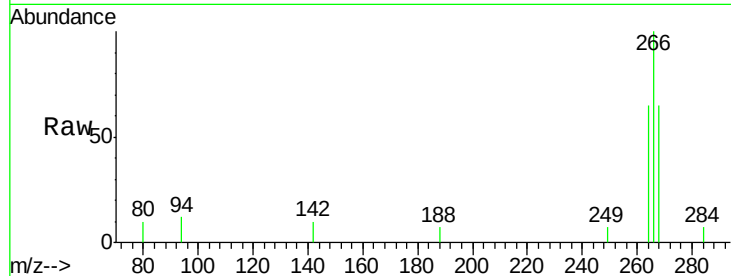




#19
 Pentachlorophenol
 Concen: 0.74 ng
 RT: 19.44 min Scan# 3245
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

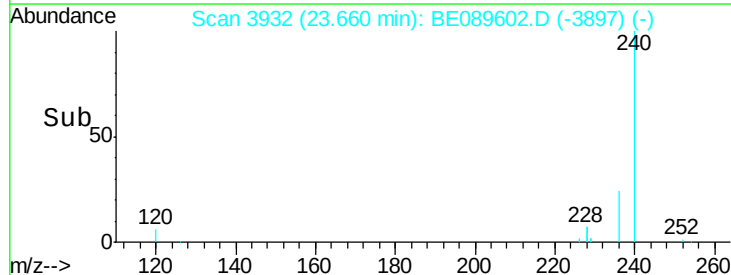
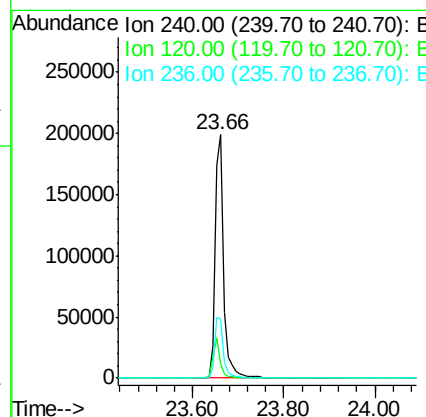
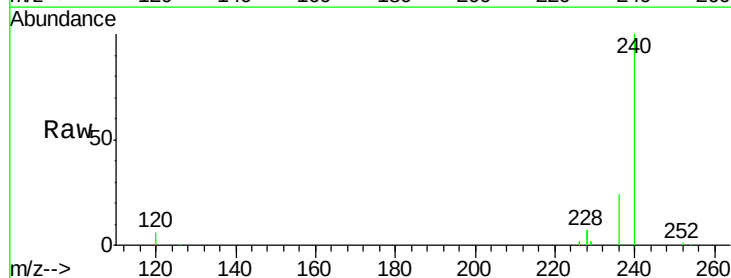
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021715

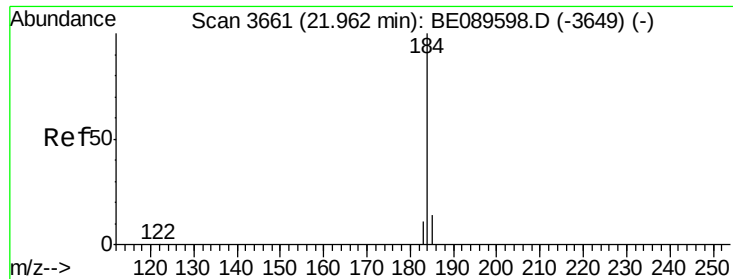
Tgt Ion: 266 Resp: 1335
 Ion Ratio Lower Upper
 266 100
 268 65.5 53.0 79.4
 264 65.5 51.9 77.9



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.66 min Scan# 3932
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

Tgt Ion: 240 Resp: 260389
 Ion Ratio Lower Upper
 240 100
 120 5.8 5.4 8.0
 236 24.4 19.8 29.6





#21

Benzidine

Concen: 0.58 ng

RT: 21.96 min Scan# 3661

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

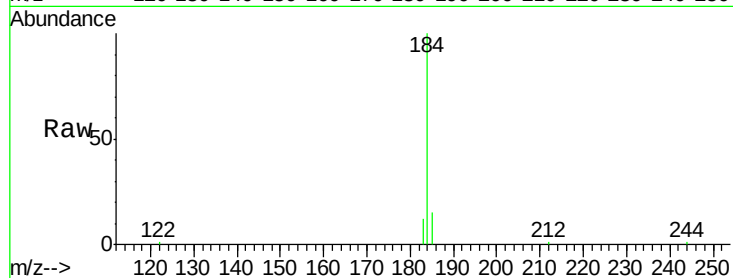
Tgt Ion:184 Resp: 11426

Ion Ratio Lower Upper

184 100

185 15.3 11.8 17.8

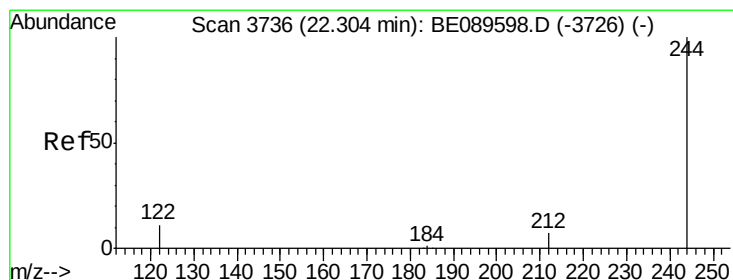
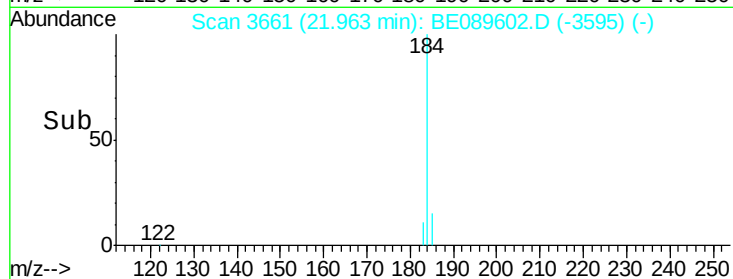
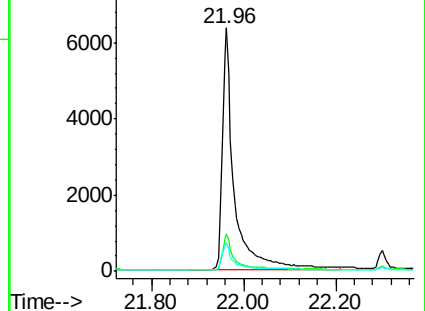
183 11.9 9.3 13.9



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#22

Terphenyl-d14

Concen: 0.98 ng

RT: 22.30 min Scan# 3735

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

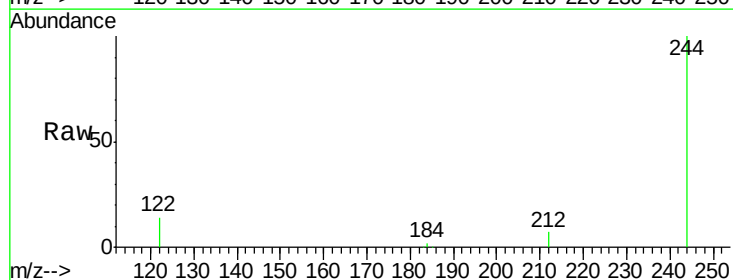
Tgt Ion:244 Resp: 34683

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

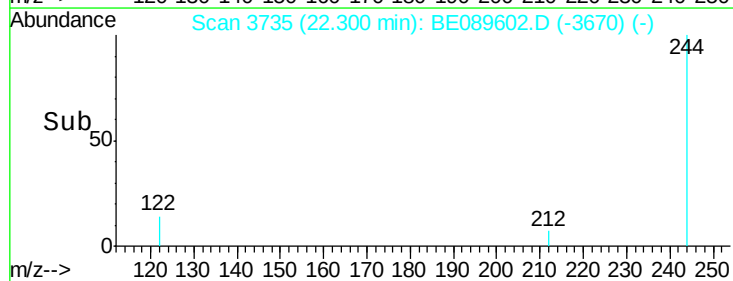
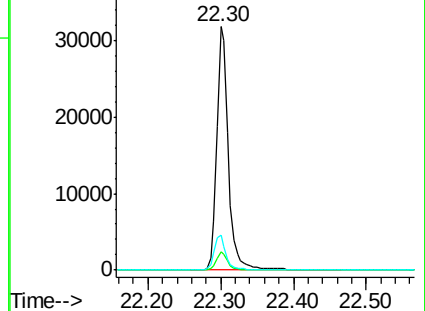
122 14.2 8.6 13.0#

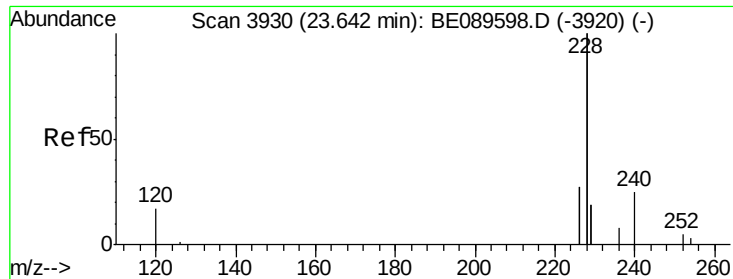


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 0.89 ng

RT: 23.64 min Scan# 3930

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

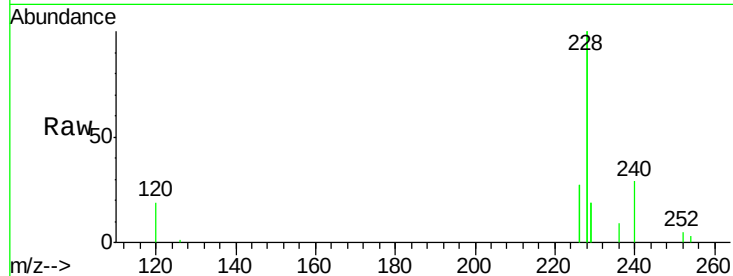
Tgt Ion:228 Resp: 217894

Ion Ratio Lower Upper

228 100

226 26.7 21.5 32.3

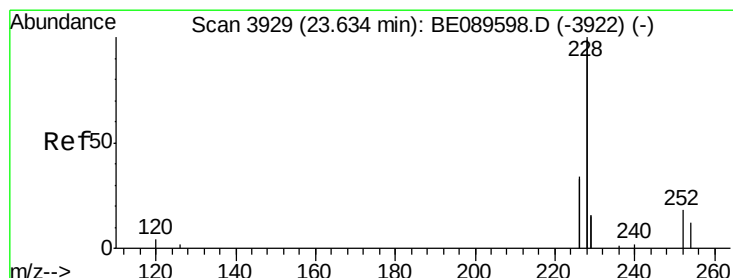
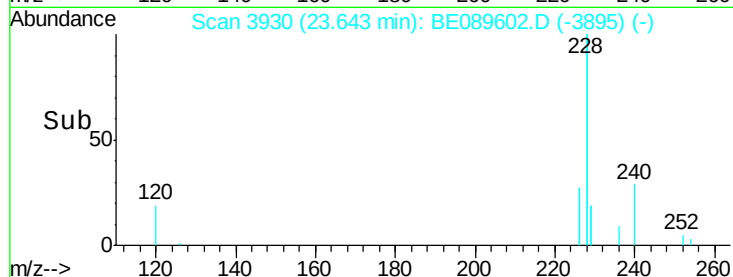
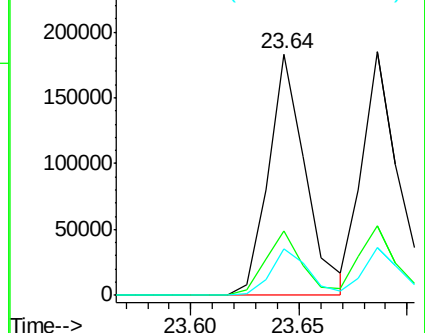
229 19.1 15.0 22.6



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: 0.72 ng

RT: 23.63 min Scan# 3929

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

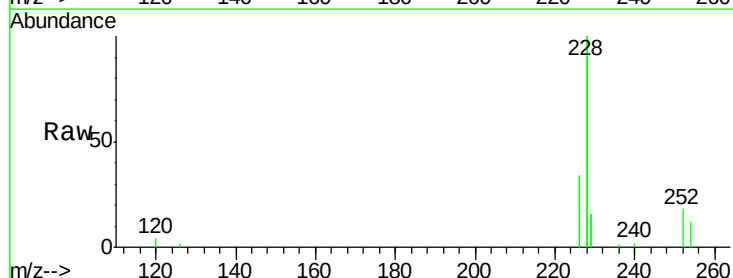
Tgt Ion:252 Resp: 11327

Ion Ratio Lower Upper

252 100

254 64.7 51.7 77.5

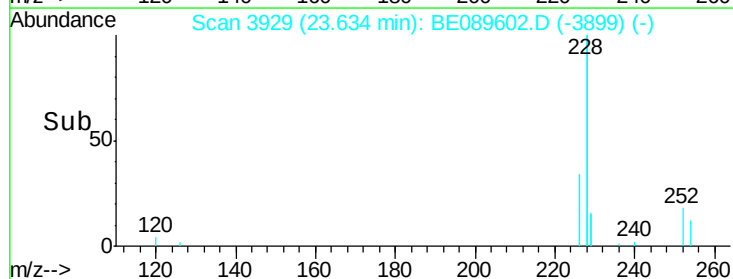
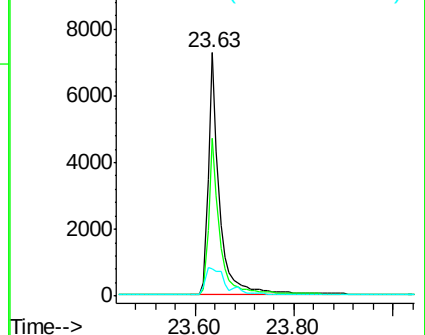
126 11.4 9.9 14.9

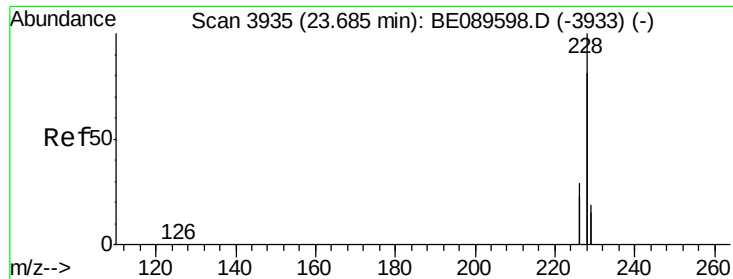


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 0.96 ng

RT: 23.69 min Scan# 3935

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

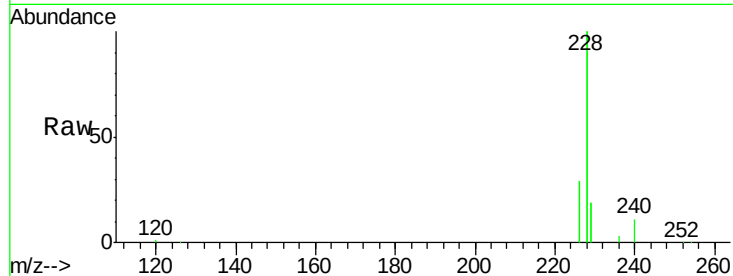
Tgt Ion:228 Resp: 241262

Ion Ratio Lower Upper

228 100

226 28.7 23.4 35.2

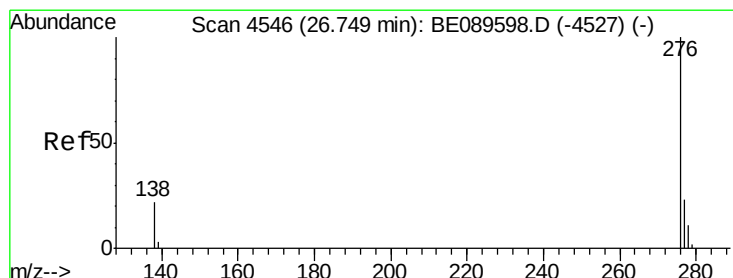
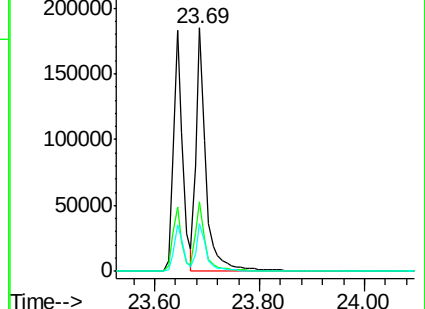
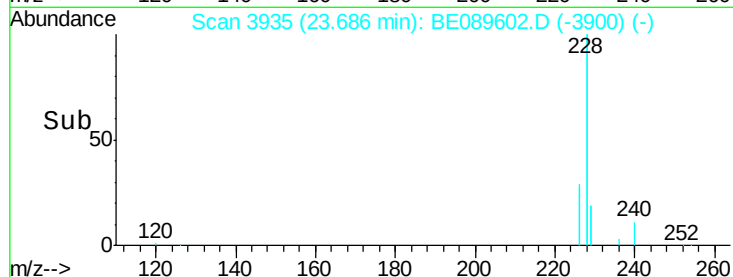
229 19.4 15.3 22.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.76 ng

RT: 26.75 min Scan# 4546

Delta R.T. -0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

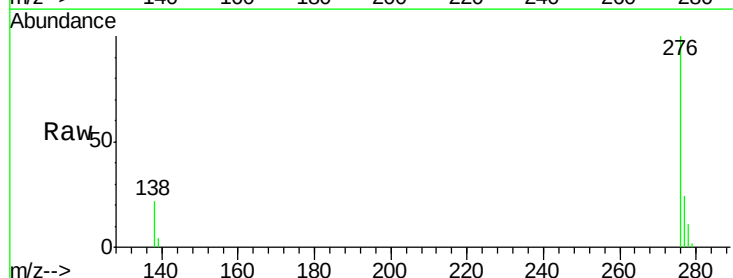
Tgt Ion:276 Resp: 41944

Ion Ratio Lower Upper

276 100

138 0.0 0.0 0.0

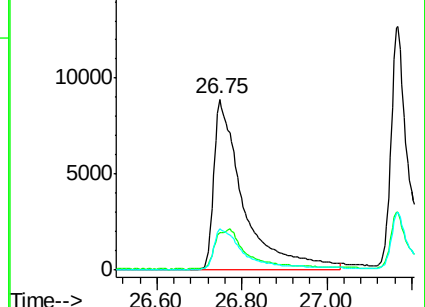
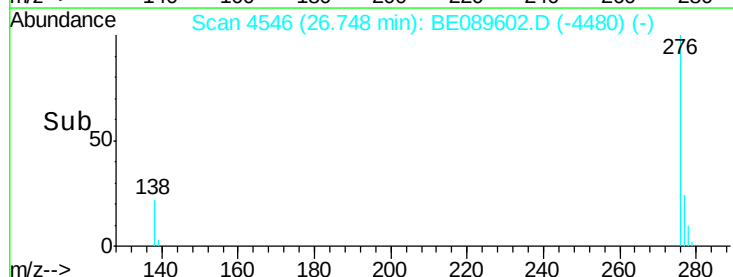
277 24.9 19.9 29.9

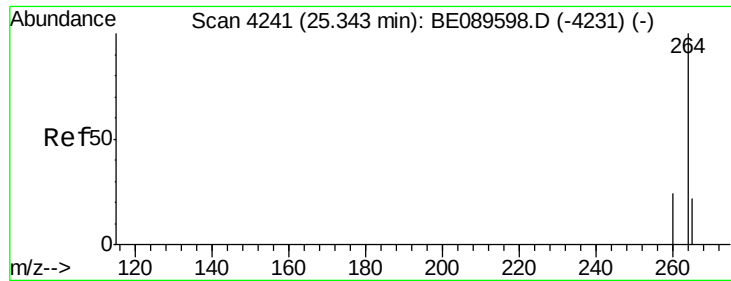


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

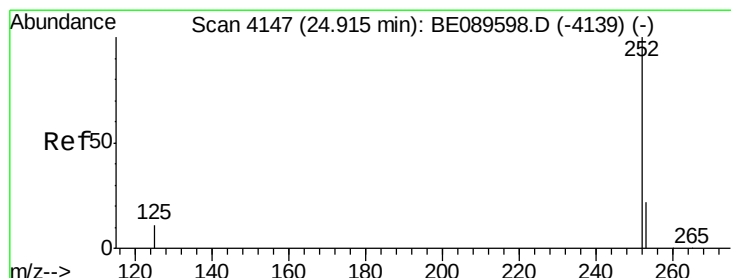
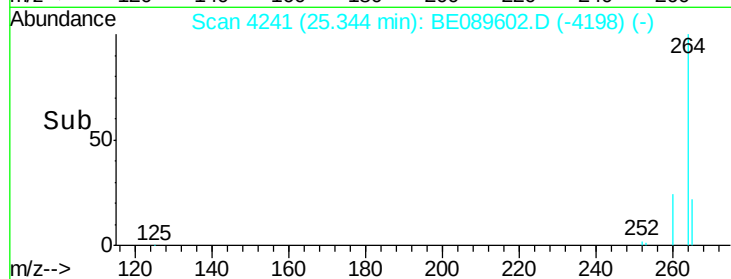
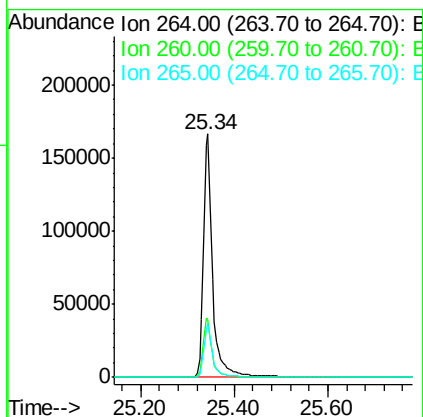
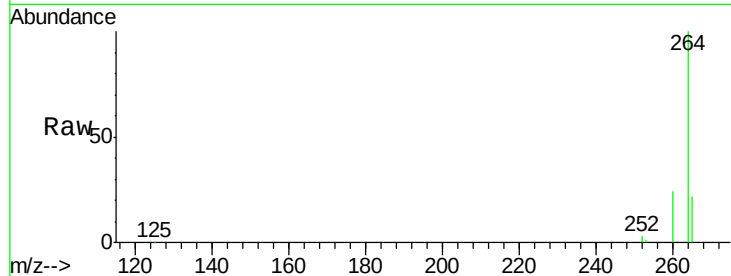




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4241
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

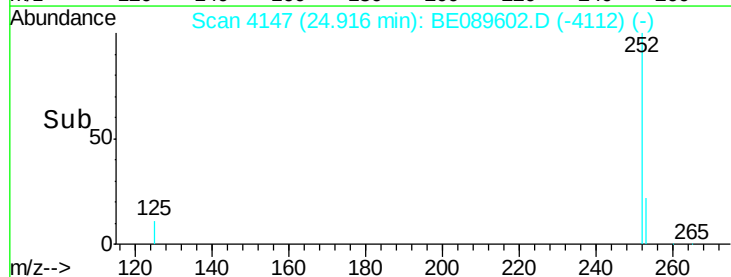
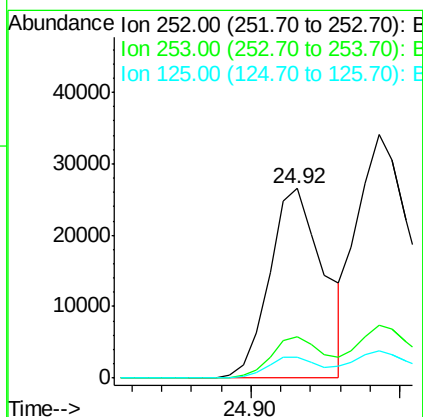
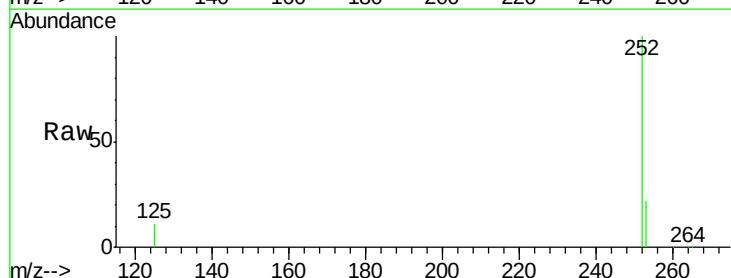
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE021715

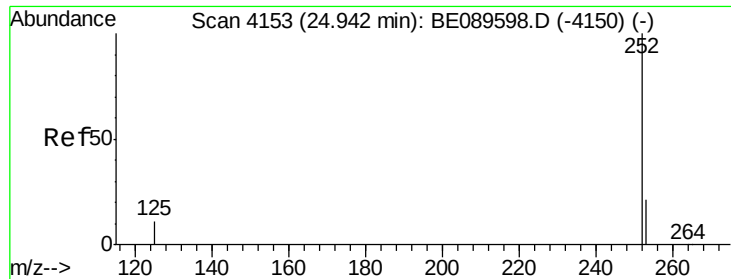
Tgt Ion: 264 Resp: 226636
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.4
 265 22.2 17.8 26.8



#28
Benzo(b)fluoranthene
 Concen: 0.78 ng
 RT: 24.92 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: BE089602.D
 Acq: 17 Feb 2015 19:45

Tgt Ion: 252 Resp: 33276
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.8 26.8
 125 10.9 8.9 13.3





#29

Benzo(k)fluoranthene

Concen: 1.01 ng

RT: 24.94 min Scan# 4153

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715

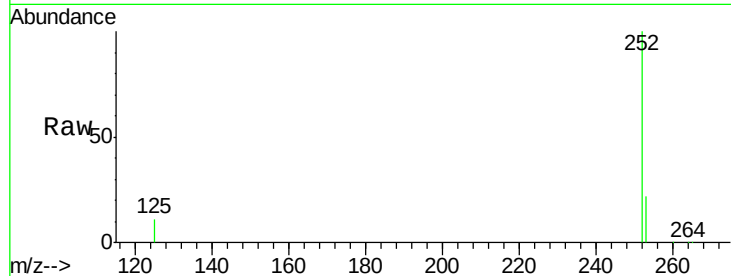
Tgt Ion:252 Resp: 61658

Ion Ratio Lower Upper

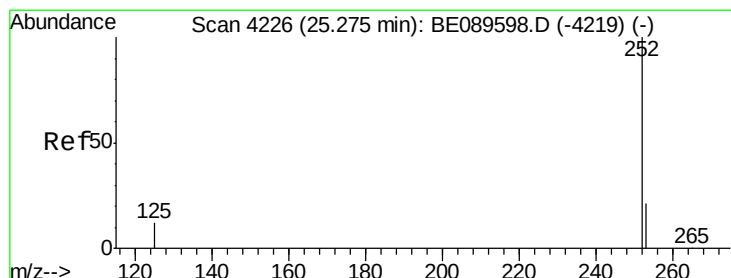
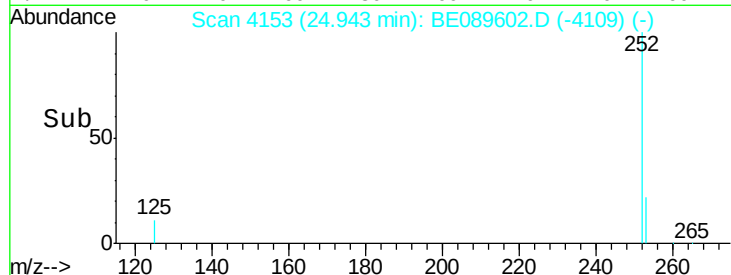
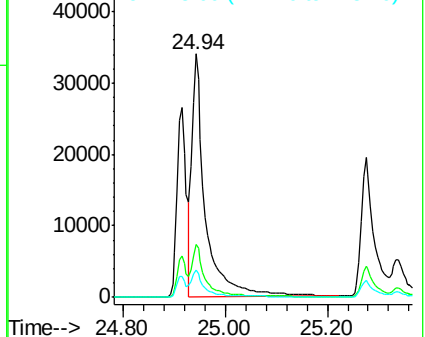
252 100

253 21.8 17.3 25.9

125 11.0 8.9 13.3



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



#30

Benzo(a)pyrene

Concen: 0.81 ng

RT: 25.28 min Scan# 4226

Delta R.T. 0.00 min

Lab File: BE089602.D

Acq: 17 Feb 2015 19:45

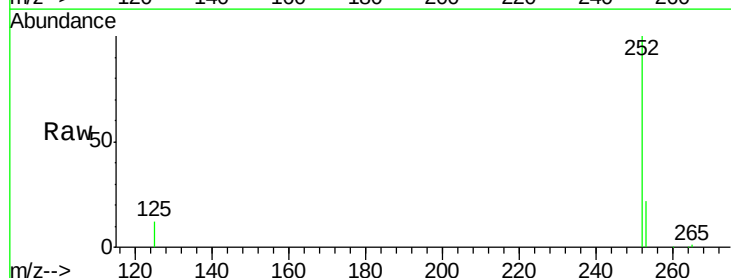
Tgt Ion:252 Resp: 32790

Ion Ratio Lower Upper

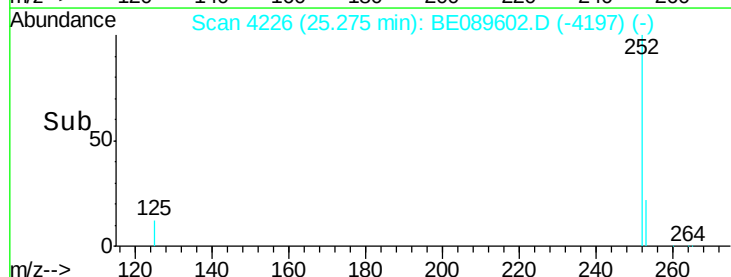
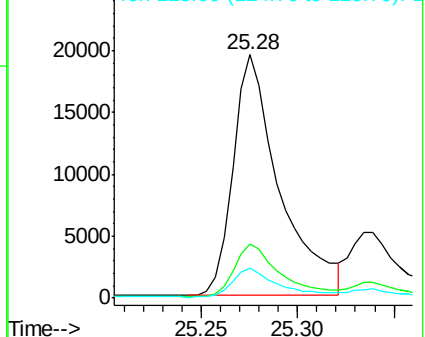
252 100

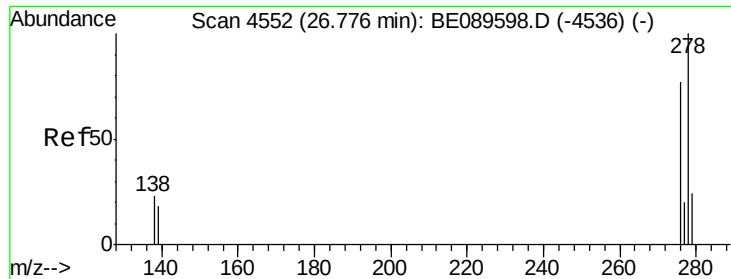
253 22.1 17.1 25.7

125 12.1 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 0.80 ng

RT: 26.78 min Scan# 4552

Delta R.T. -0.00 min

Lab File: BE089602.D

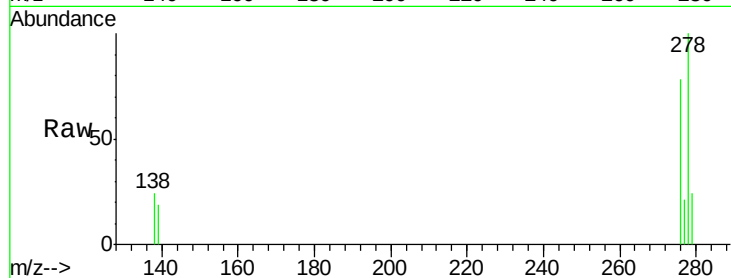
Acq: 17 Feb 2015 19:45

Instrument :

BNA_E

ClientSampleId :

ICVBE021715



Tgt Ion: 278 Resp: 32385

Ion Ratio Lower Upper

278 100

139 18.5 14.6 21.8

279 24.2 19.4 29.0

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

