

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020215\
 Data File : BE089464.D
 Acq On : 2 Feb 2015 20:27
 Operator : TP/IZ
 Sample : PB81408BS
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 03 04:23:02 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 03 04:09:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	82830	5.00	ng	0.00
7) Naphthalene-d8	12.49	136	266447	5.00	ng	0.00
13) Acenaphthene-d10	16.68	164	102957	5.00	ng	0.00
17) Phenanthrene-d10	19.99	188	191334	5.00	ng	0.00
20) Chrysene-d12	23.84	240	315801	5.00	ng	0.00
27) Perylene-d12	25.56	264	400562	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.75	112	299067	10.78	ng	0.00
4) Phenol-d6	8.87	99	337148	10.43	ng	0.00
8) Nitrobenzene-d5	10.85	82	174375	9.01	ng	0.00
14) 2,4,6-Tribromophenol	18.59	330	40172	15.48	ng	0.00
15) 2-Fluorobiphenyl	15.13	172	216144	7.51	ng	0.00
22) Terphenyl-d14	22.48	244	314495	8.81	ng	0.00

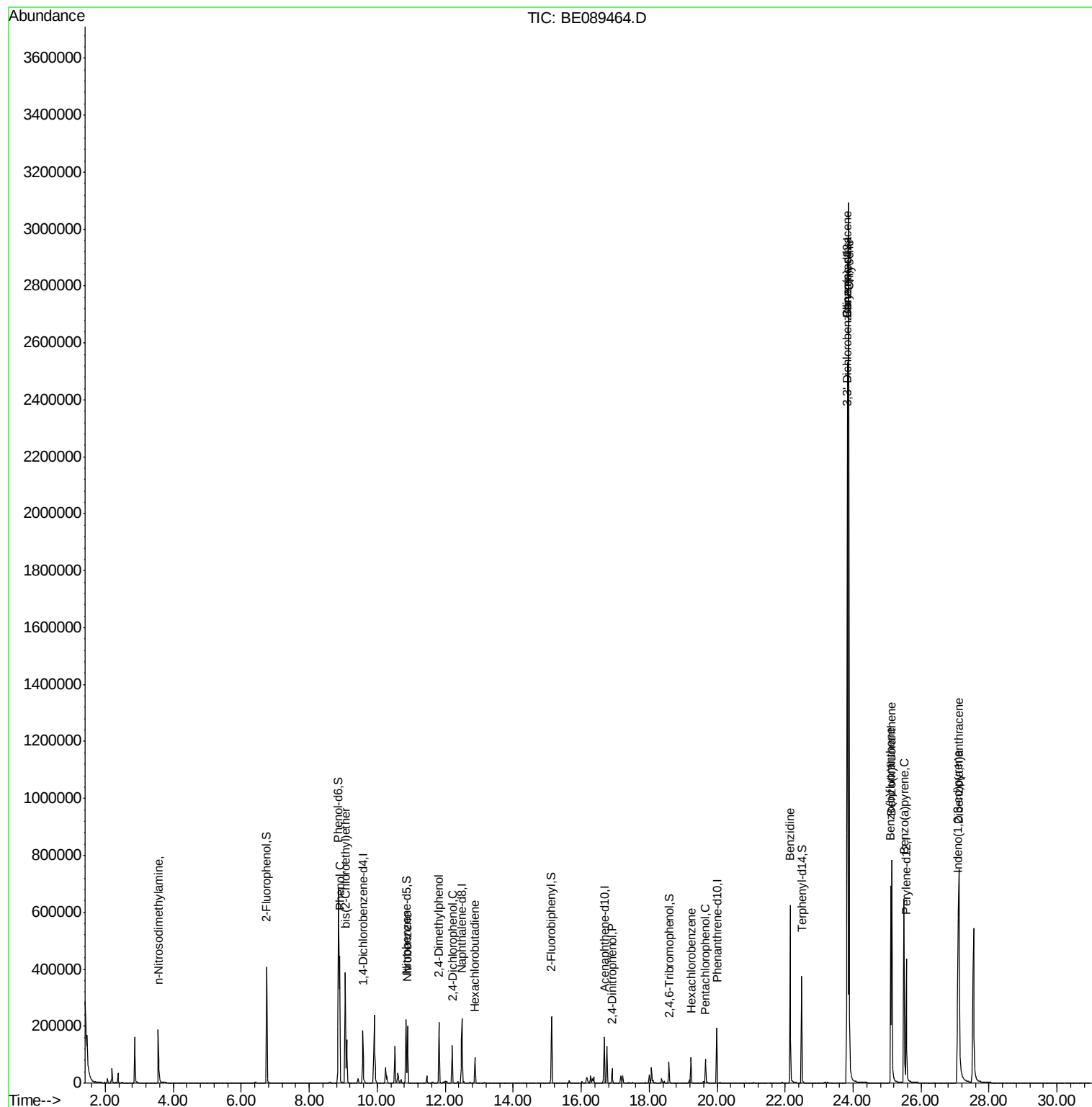
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.55	42	120215	7.56	ng	# 83
5) Phenol	8.90	94	240873	6.92	ng	91
6) bis(2-Chloroethyl)ether	9.06	93	181243	7.16	ng	# 97
9) Nitrobenzene	10.89	77	180992	8.23	ng	99
10) 2,4-Dimethylphenol	11.82	122	112648	7.15	ng	87
11) 2,4-Dichlorophenol	12.21	162	91603	7.69	ng	92
12) Hexachlorobutadiene	12.87	225	60661	7.23	ng	99
16) 2,4-Dinitrophenol	16.91	184	29922	17.35	ng	84
18) Hexachlorobenzene	19.23	284	70381	7.02	ng	97
19) Pentachlorophenol	19.66	266	47805	16.32	ng	97
21) Benzidine	22.15	184	542561	14.14	ng	99
23) Benzo(a)anthracene	23.83	228	2131625	8.47	ng	95
24) 3,3'-Dichlorobenzidine	23.82	252	228318	7.57	ng	# 97
25) Chrysene	23.88	228	2253156	7.33	ng	95
26) Indeno(1,2,3-cd)pyrene	27.08	276	943515	7.06	ng	97
28) Benzo(b)fluoranthene	25.11	252	617313	7.68	ng	100
29) Benzo(k)fluoranthene	25.14	252	733783	7.35	ng	99
30) Benzo(a)pyrene	25.49	252	637980	7.35	ng	99
31) Dibenzo(a,h)anthracene	27.11	278	830044	7.36	ng	96

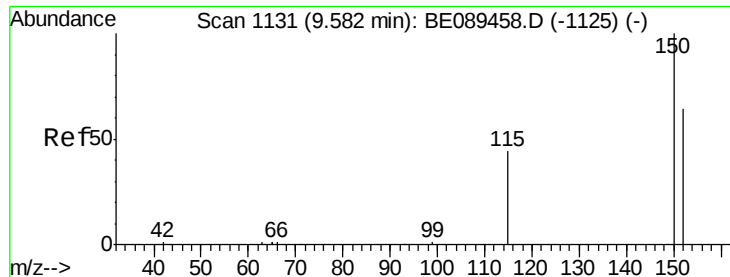
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1131

Delta R.T. 0.00 min

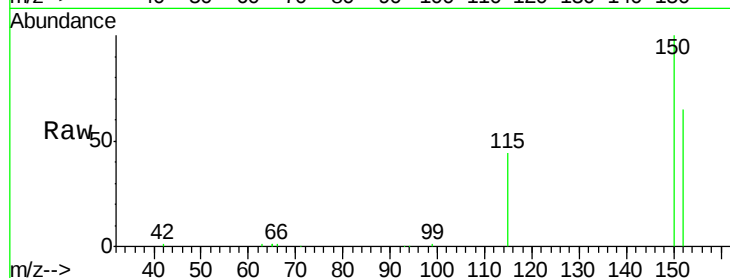
Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :



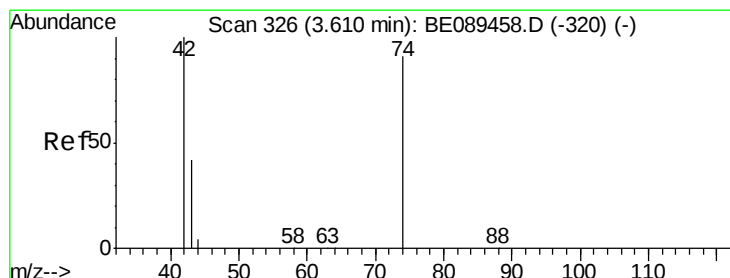
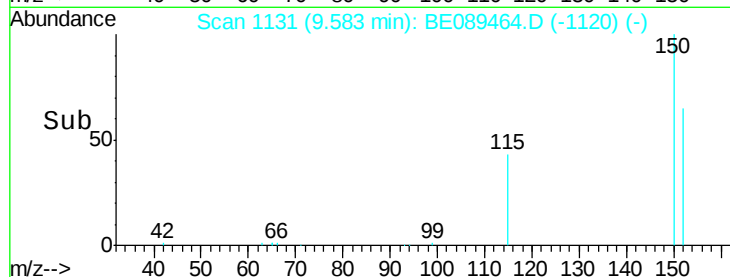
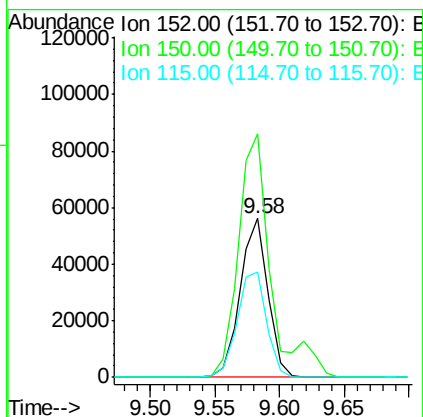
Tgt Ion:152 Resp: 82830

Ion Ratio Lower Upper

152 100

150 153.1 124.6 186.8

115 66.6 55.4 83.0



#2

n-Nitrosodimethylamine

Concen: 7.56 ng

RT: 3.55 min Scan# 317

Delta R.T. -0.06 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

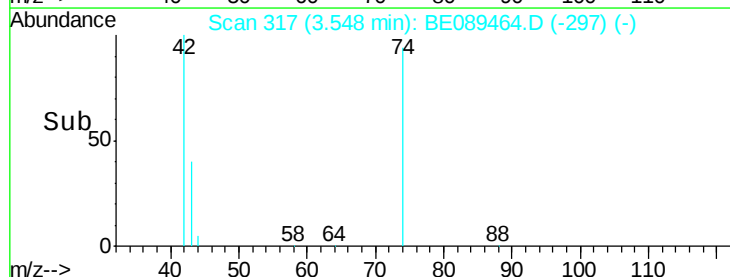
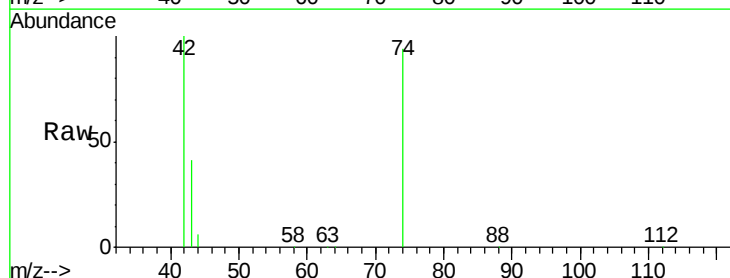
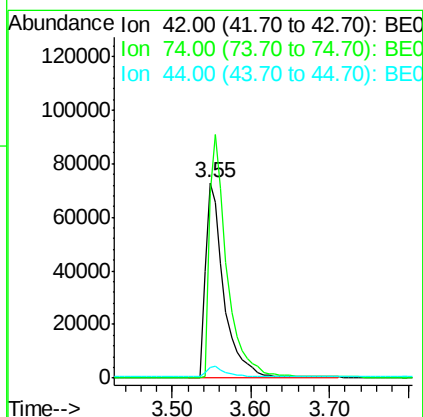
Tgt Ion: 42 Resp: 120215

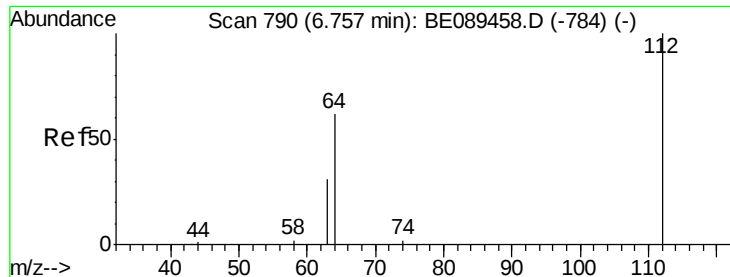
Ion Ratio Lower Upper

42 100

74 94.3 72.1 108.1

44 5.7 28.0 42.0#

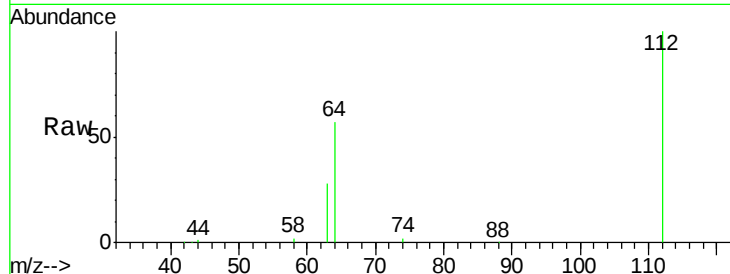




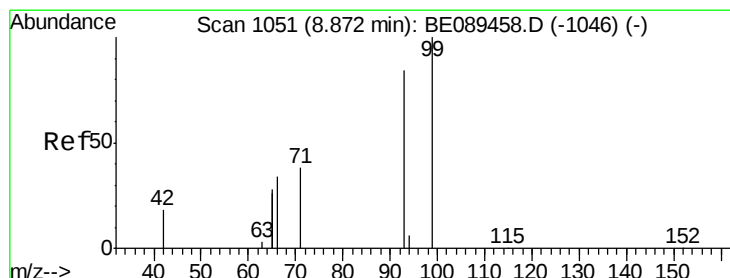
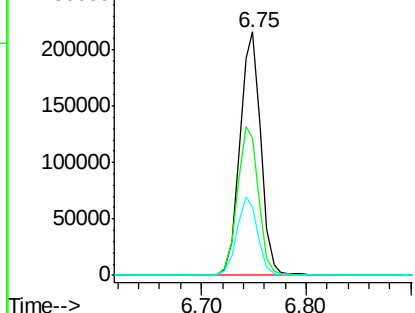
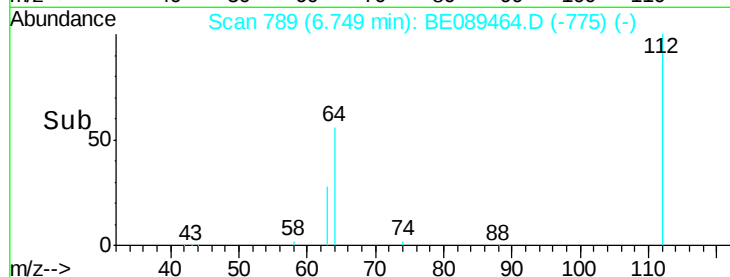
#3
 2-Fluorophenol
 Concen: 10.78 ng
 RT: 6.75 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Instrument :
 BNA_E
 ClientSampleID :

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.5	49.8	74.8
63	28.0	24.9	37.3

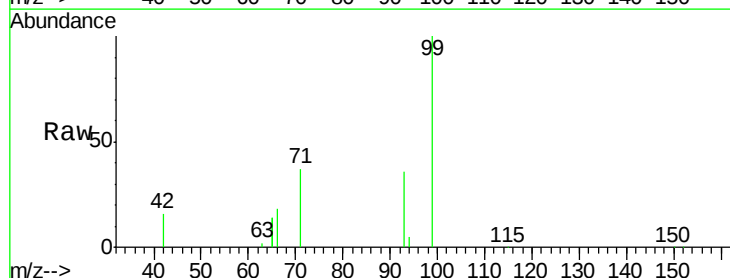


Abundance Ion 112.00 (111.70 to 112.70): BE0
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0

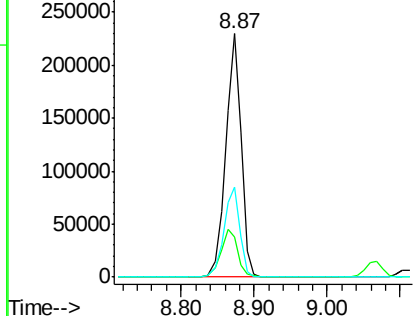
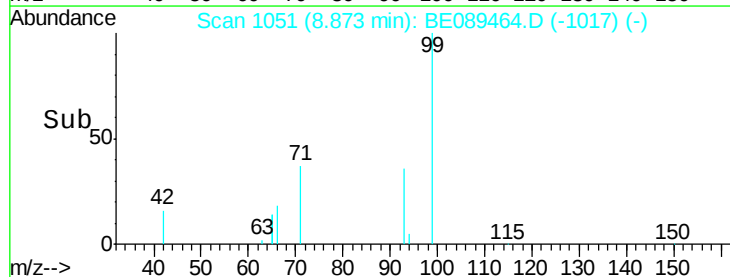


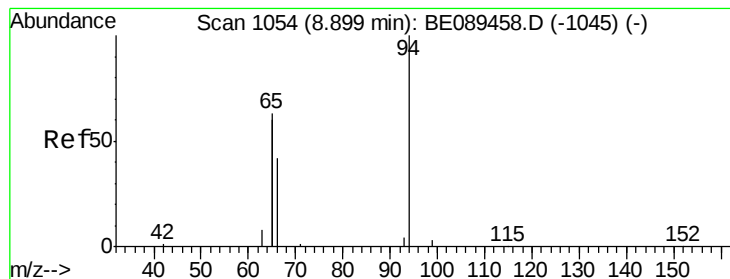
#4
 Phenol-d6
 Concen: 10.43 ng
 RT: 8.87 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Tgt Ion	Ratio	Lower	Upper
99	100		
42	16.3	15.0	22.4
71	36.9	30.6	46.0



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





#5

Phenol

Concen: 6.92 ng

RT: 8.90 min Scan# 1054

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampled :

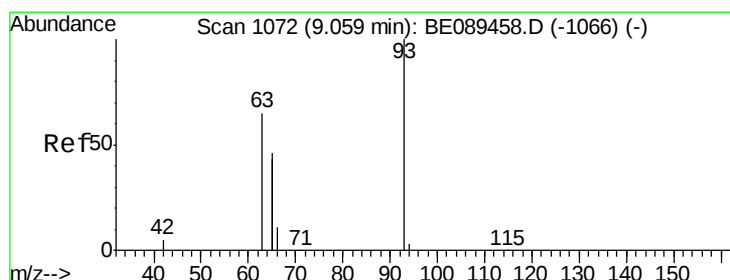
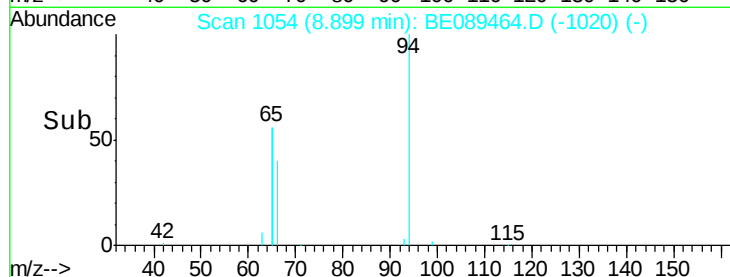
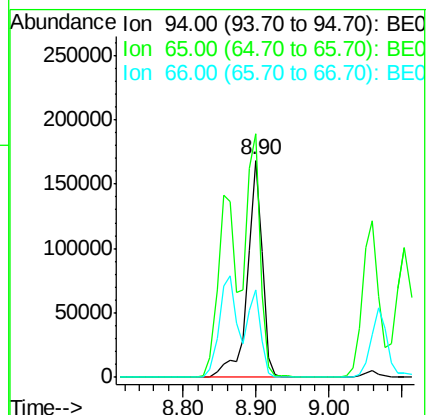
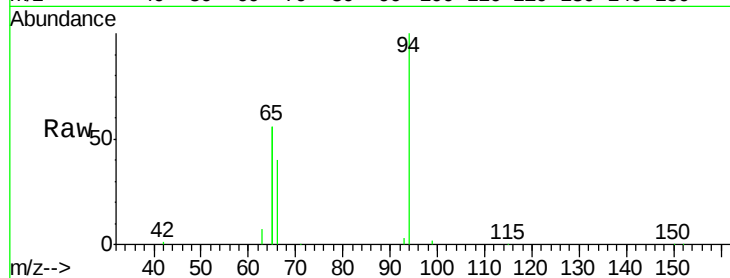
Tgt Ion: 94 Resp: 240873

Ion Ratio Lower Upper

94 100

65 112.1 105.0 145.0

66 40.3 22.4 62.4



#6

bis(2-Chloroethyl)ether

Concen: 7.16 ng

RT: 9.06 min Scan# 1072

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

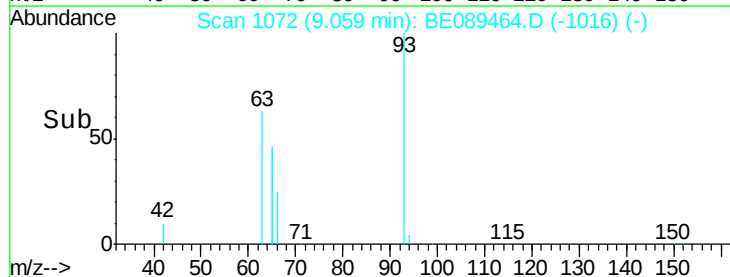
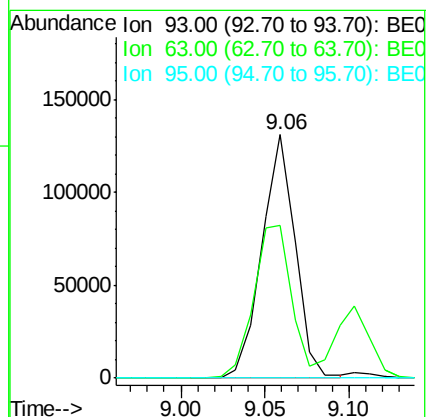
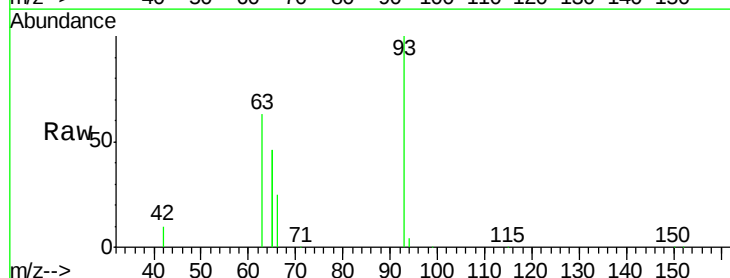
Tgt Ion: 93 Resp: 181243

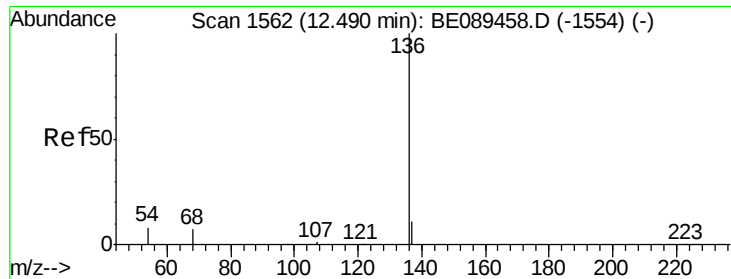
Ion Ratio Lower Upper

93 100

63 71.3 59.2 88.8

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

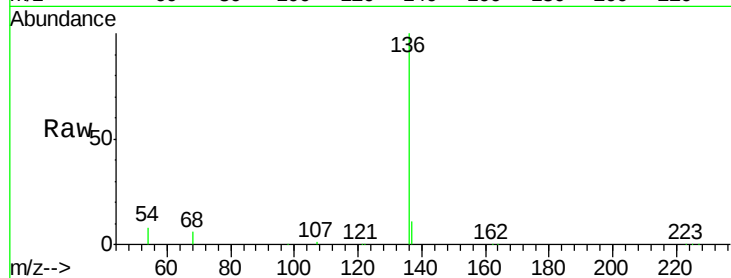
Tgt Ion: 136 Resp: 266447

Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

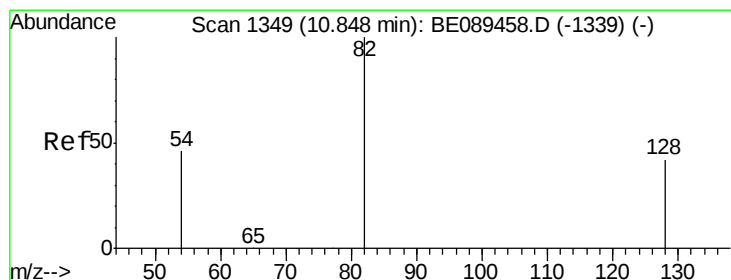
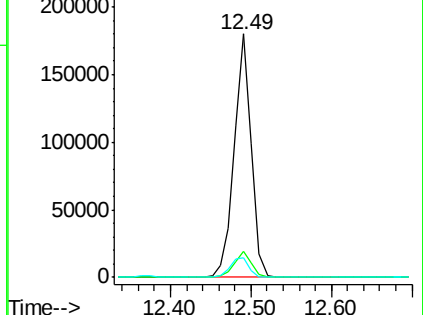
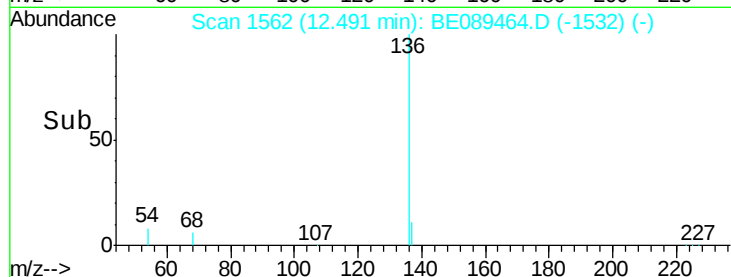
54 7.8 6.5 9.7



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



#8

Nitrobenzene-d5

Concen: 9.01 ng

RT: 10.85 min Scan# 1349

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

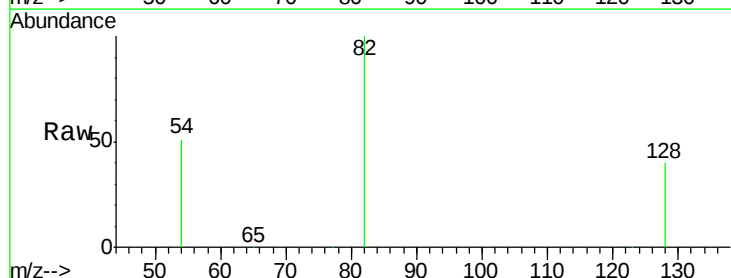
Tgt Ion: 82 Resp: 174375

Ion Ratio Lower Upper

82 100

128 39.9 34.2 51.2

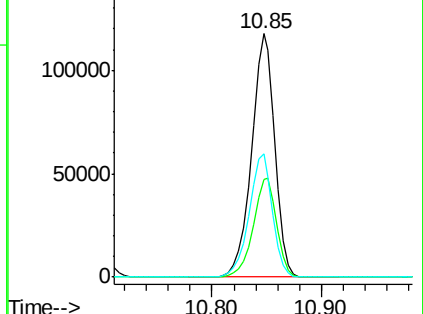
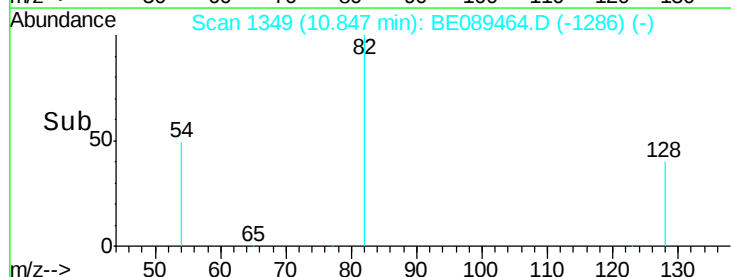
54 50.6 37.3 55.9

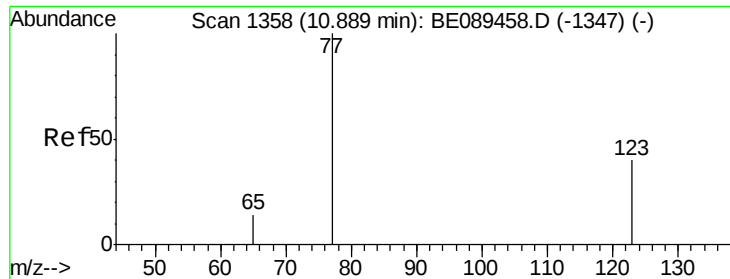


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 8.23 ng

RT: 10.89 min Scan# 1359

Delta R.T. 0.00 min

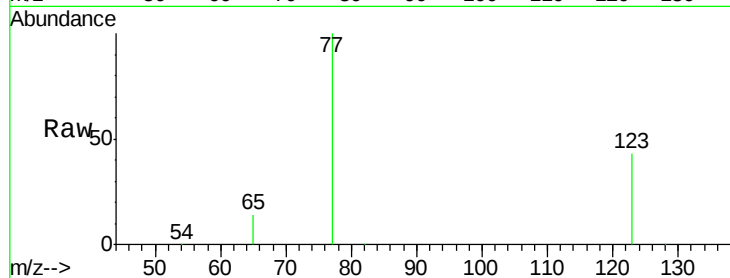
Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :



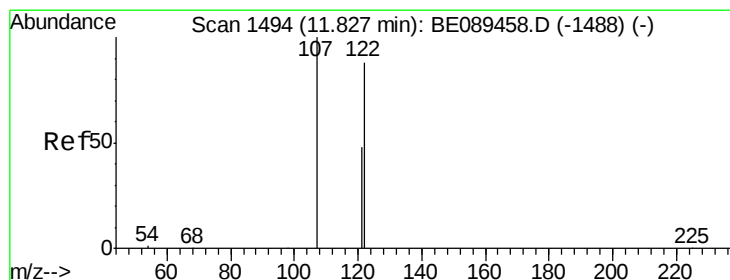
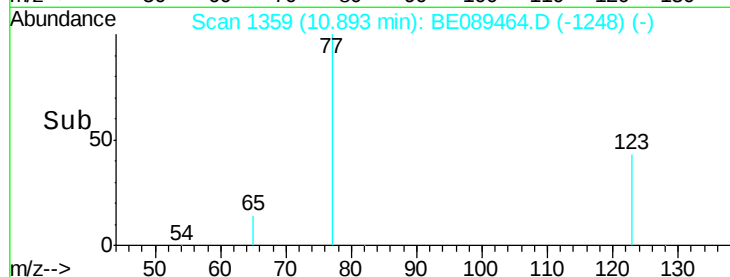
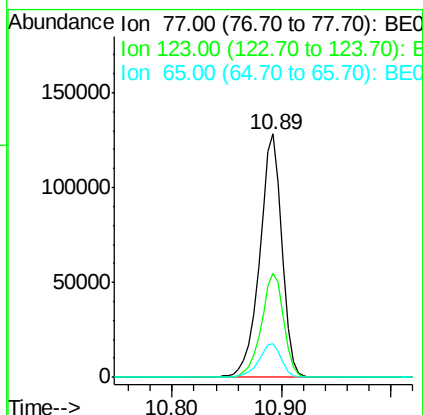
Tgt Ion: 77 Resp: 180992

Ion Ratio Lower Upper

77 100

123 43.0 33.6 50.4

65 14.1 11.0 16.6



#10

2,4-Dimethylphenol

Concen: 7.15 ng

RT: 11.82 min Scan# 1493

Delta R.T. -0.01 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

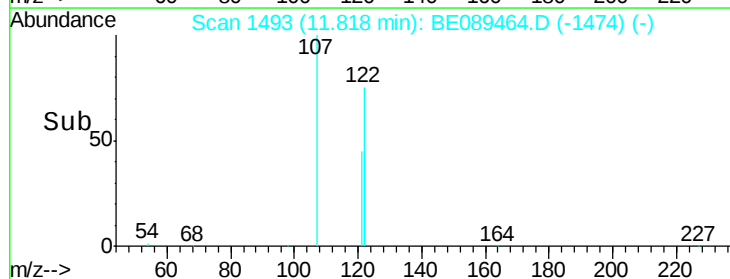
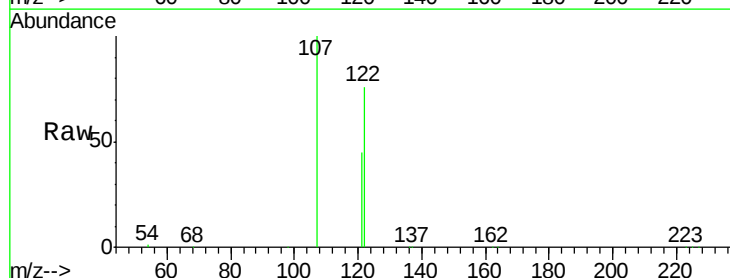
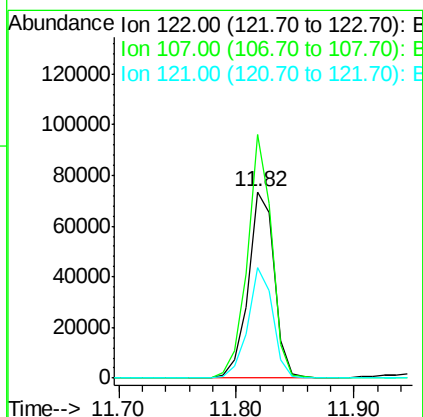
Tgt Ion: 122 Resp: 112648

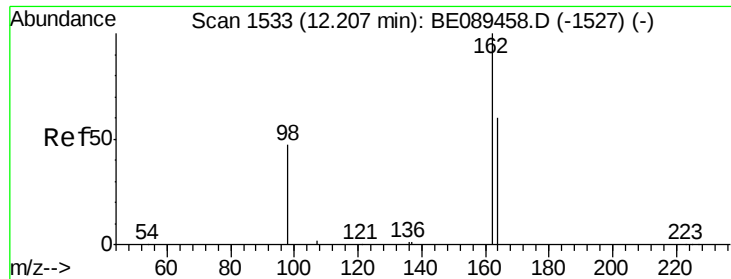
Ion Ratio Lower Upper

122 100

107 130.8 90.6 136.0

121 59.2 43.7 65.5

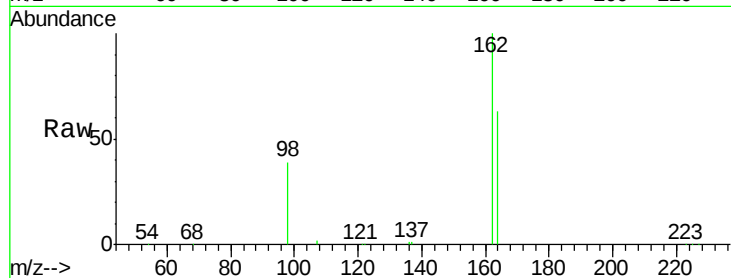




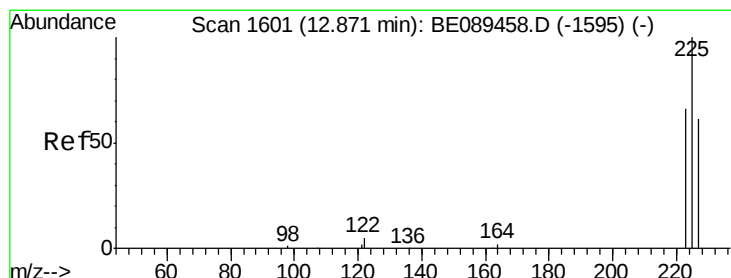
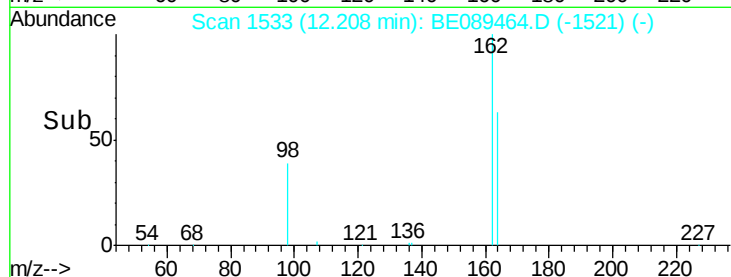
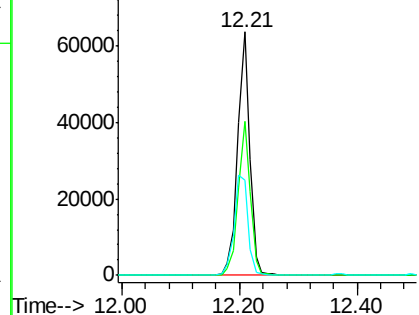
#11
 2,4-Dichlorophenol
 Concen: 7.69 ng
 RT: 12.21 min Scan# 1533
 Delta R.T. 0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:162 Resp: 91603
 Ion Ratio Lower Upper
 162 100
 164 63.4 40.5 80.5
 98 39.2 28.1 68.1

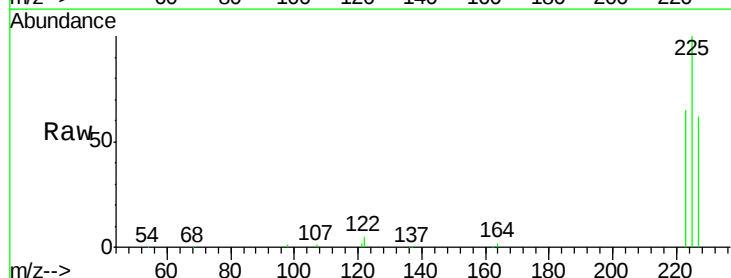


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): E

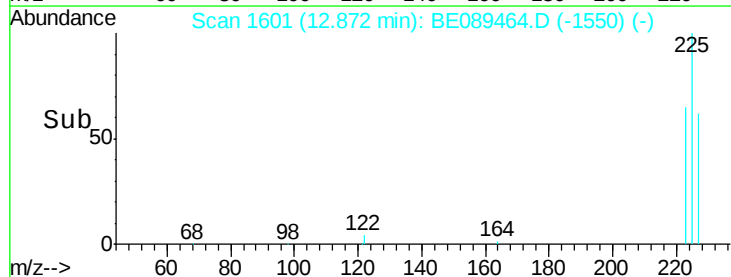
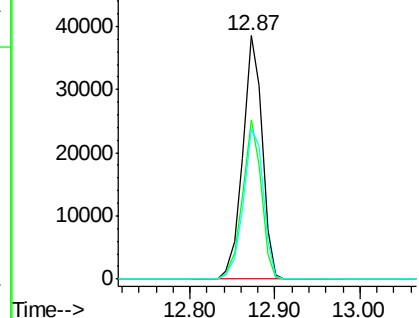


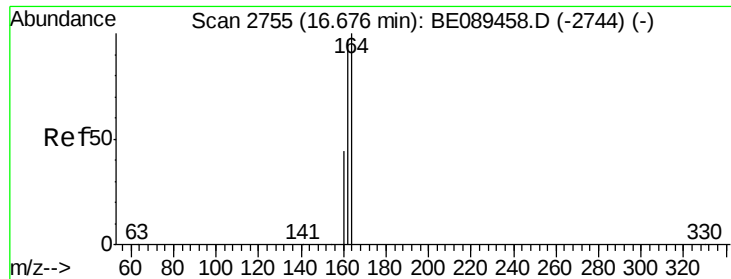
#12
 Hexachlorobutadiene
 Concen: 7.23 ng
 RT: 12.87 min Scan# 1601
 Delta R.T. 0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Tgt Ion:225 Resp: 60661
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.2 75.2
 227 63.8 49.9 74.9



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: 16.68 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

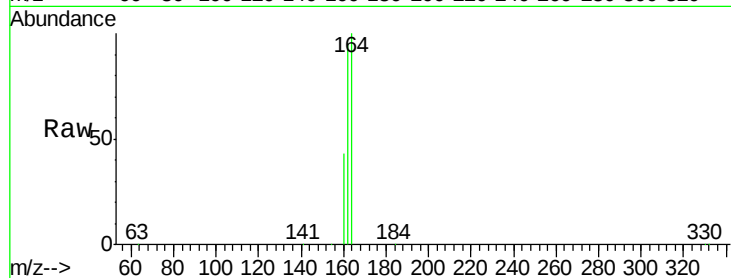
Tgt Ion:164 Resp: 102957

Ion Ratio Lower Upper

164 100

162 95.4 77.4 116.2

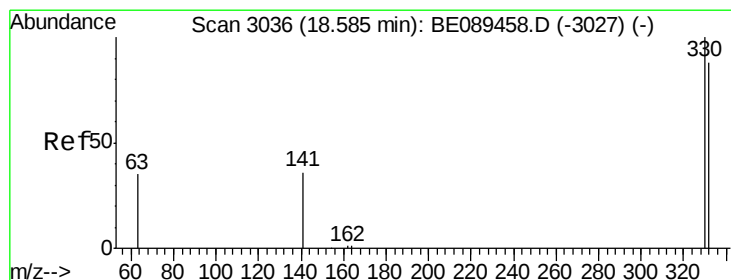
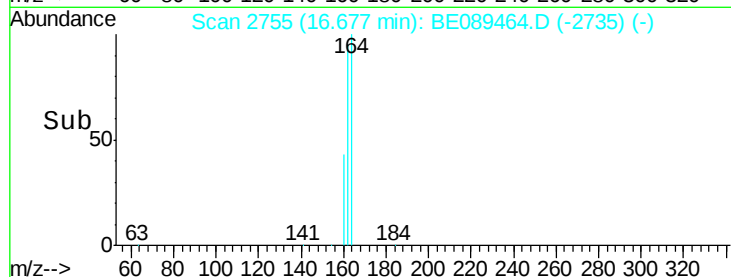
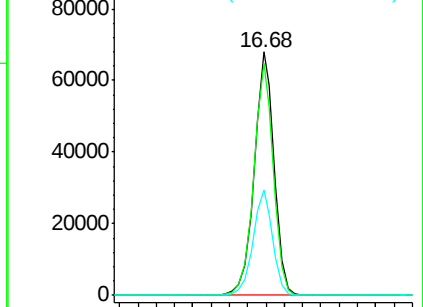
160 43.2 35.5 53.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 15.48 ng

RT: 18.59 min Scan# 3036

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

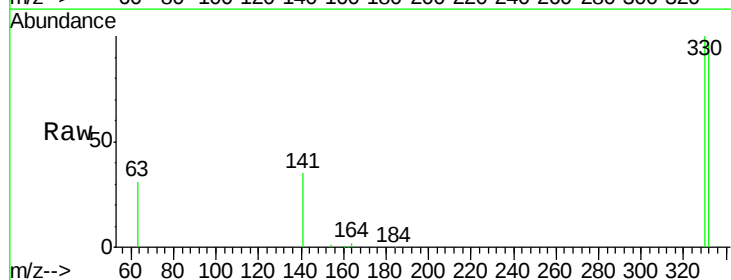
Tgt Ion:330 Resp: 40172

Ion Ratio Lower Upper

330 100

332 95.5 75.4 113.2

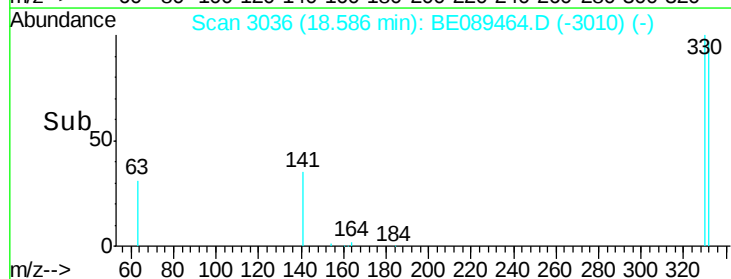
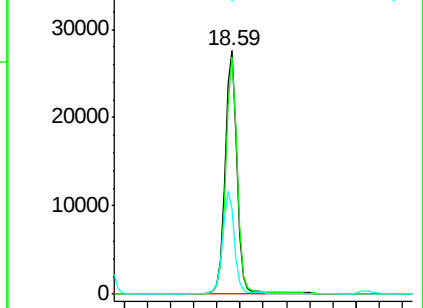
141 41.2 35.7 53.5

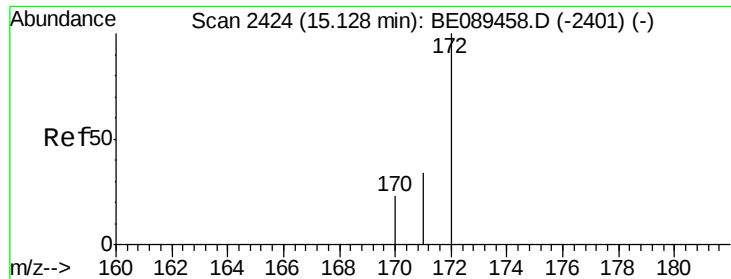


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

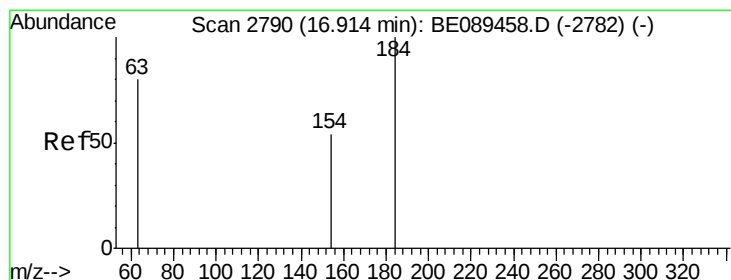
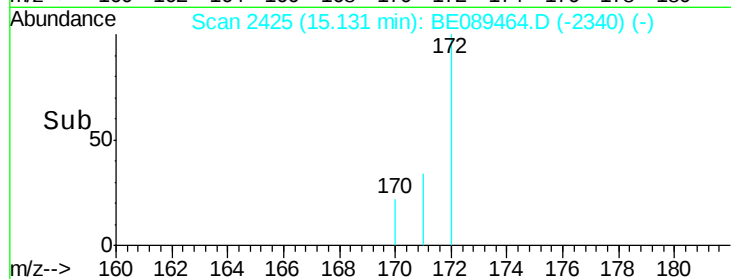
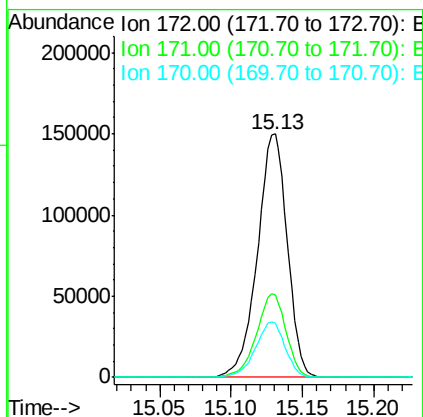
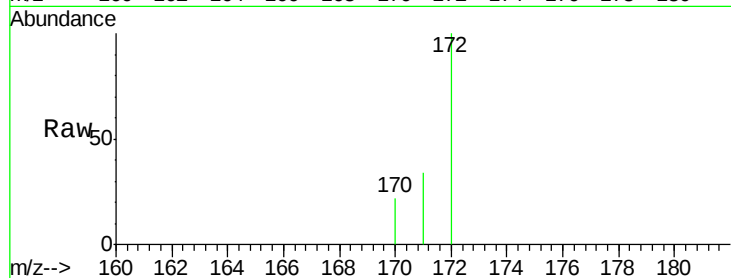




#15
2-Fluorobiphenyl
Concen: 7.51 ng
RT: 15.13 min Scan# 2425
Delta R.T. 0.00 min
Lab File: BE089464.D
Acq: 2 Feb 2015 20:27

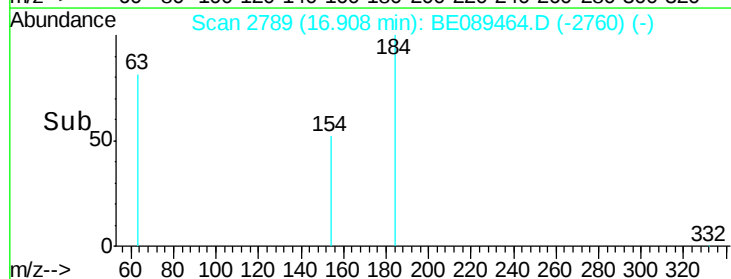
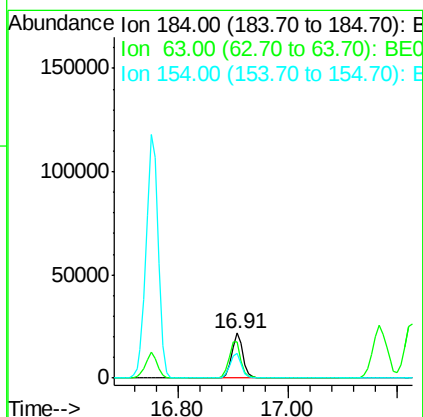
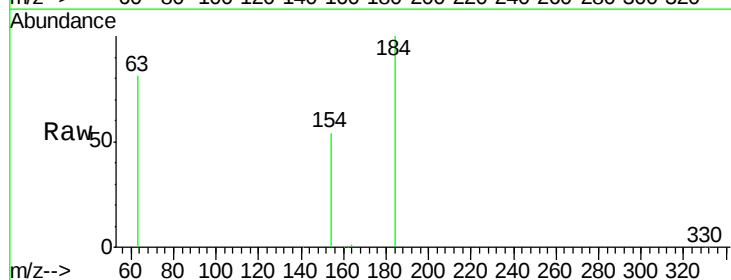
Instrument :
BNA_E
ClientSampleId :

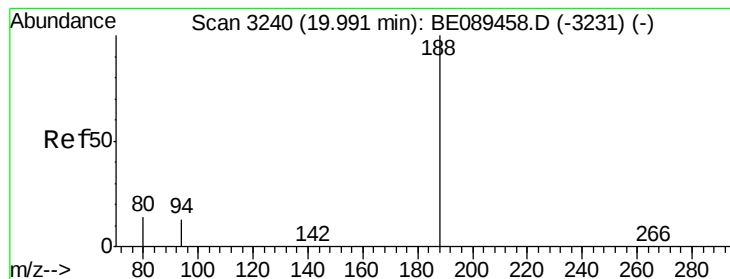
Tgt Ion:172 Resp: 216144
Ion Ratio Lower Upper
172 100
171 34.0 27.7 41.5
170 22.0 18.3 27.5



#16
2,4-Dinitrophenol
Concen: 17.35 ng
RT: 16.91 min Scan# 2789
Delta R.T. -0.01 min
Lab File: BE089464.D
Acq: 2 Feb 2015 20:27

Tgt Ion:184 Resp: 29922
Ion Ratio Lower Upper
184 100
63 81.3 77.0 115.6
154 54.4 54.0 81.0





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.99 min Scan# 3240

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

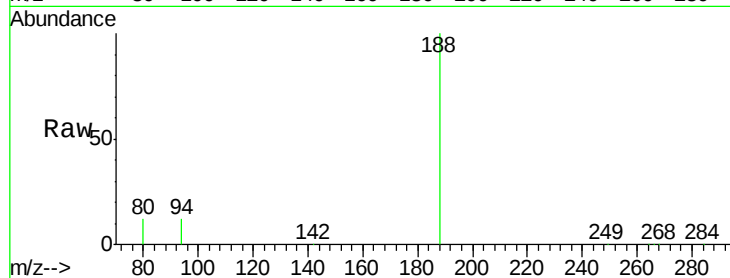
Tgt Ion:188 Resp: 191334

Ion Ratio Lower Upper

188 100

94 12.1 10.2 15.4

80 12.3 10.9 16.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

200000

150000

100000

50000

0

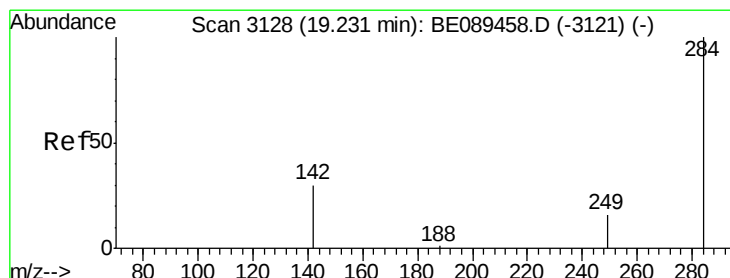
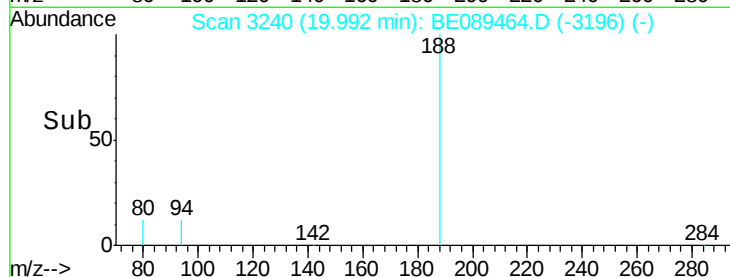
19.99

19.90

20.00

20.10

Time-->



#18

Hexachlorobenzene

Concen: 7.02 ng

RT: 19.23 min Scan# 3128

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

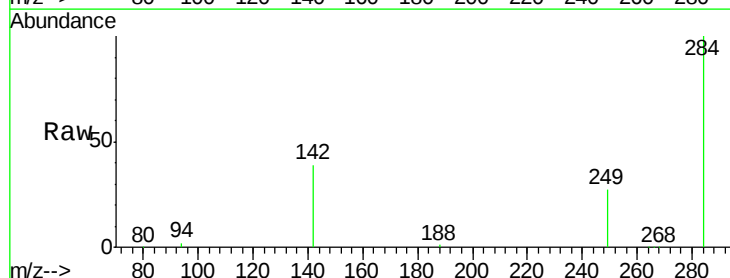
Tgt Ion:284 Resp: 70381

Ion Ratio Lower Upper

284 100

142 38.5 31.8 47.8

249 26.8 23.5 35.3



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

60000

40000

20000

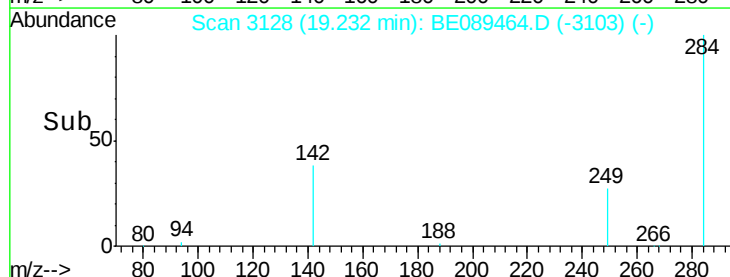
0

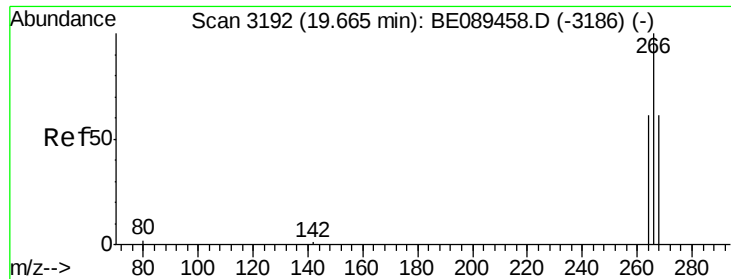
19.23

19.20

19.30

Time-->

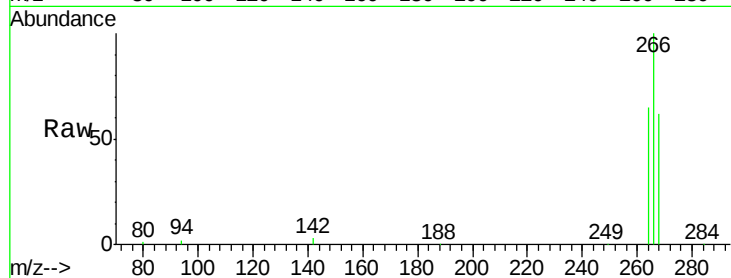




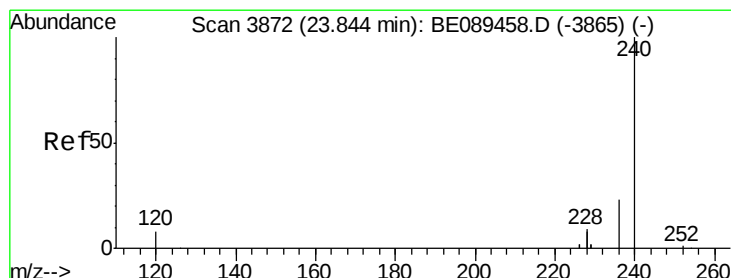
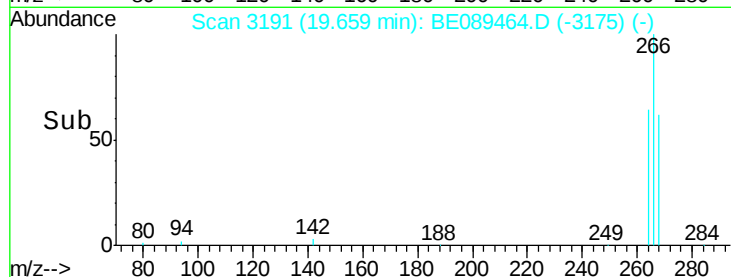
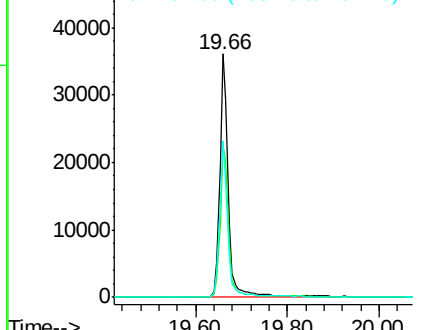
#19
 Pentachlorophenol
 Concen: 16.32 ng
 RT: 19.66 min Scan# 3191
 Delta R.T. -0.01 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:266 Resp: 47805
 Ion Ratio Lower Upper
 266 100
 268 62.4 52.6 78.8
 264 64.5 52.2 78.2

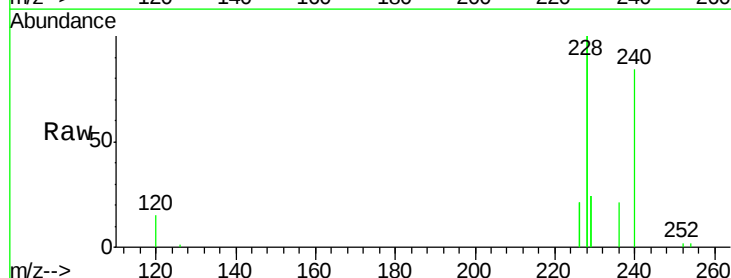


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

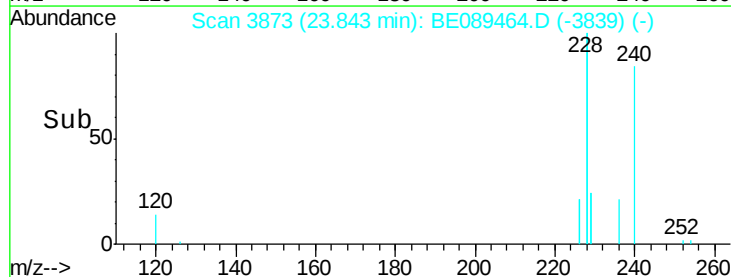
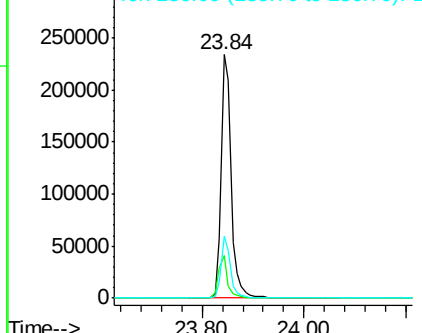


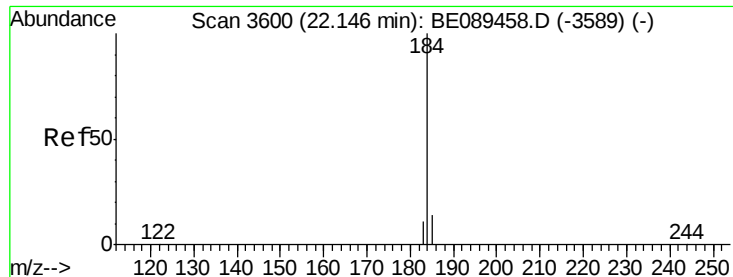
#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 3873
 Delta R.T. -0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Tgt Ion:240 Resp: 315801
 Ion Ratio Lower Upper
 240 100
 120 17.3 6.2 9.4#
 236 25.4 18.2 27.4



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





#21

Benzidine

Concen: 14.14 ng

RT: 22.15 min Scan# 3601

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

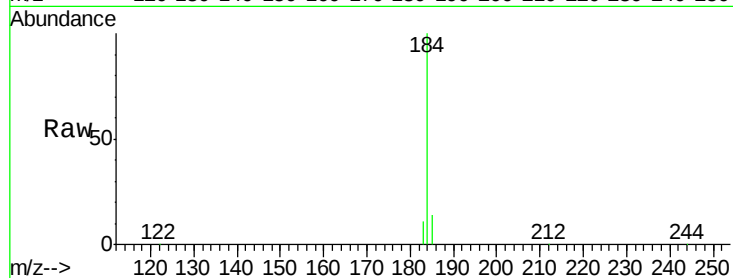
Tgt Ion:184 Resp: 542561

Ion Ratio Lower Upper

184 100

185 14.0 11.7 17.5

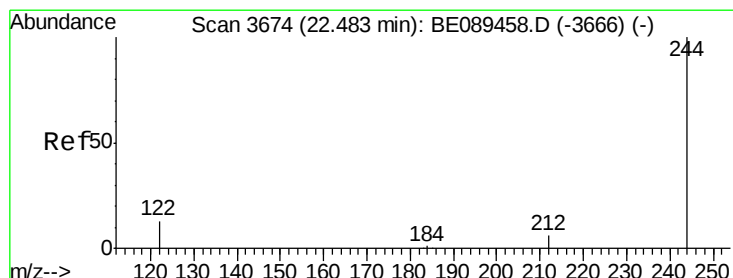
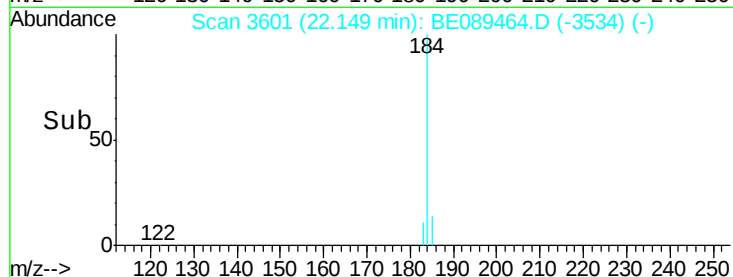
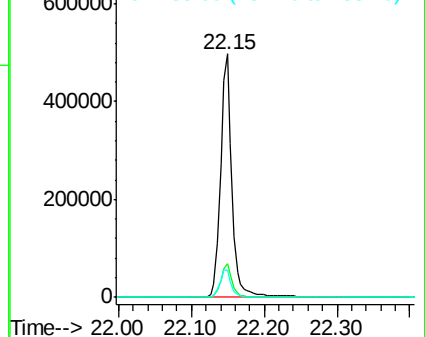
183 11.4 9.4 14.0



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: 8.81 ng

RT: 22.48 min Scan# 3674

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

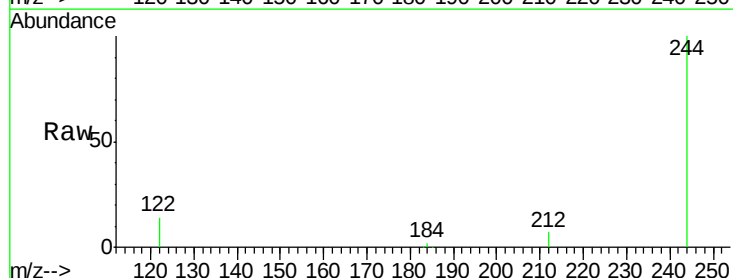
Tgt Ion:244 Resp: 314495

Ion Ratio Lower Upper

244 100

212 6.8 5.3 7.9

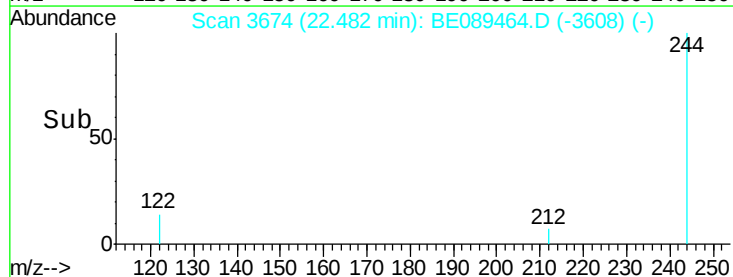
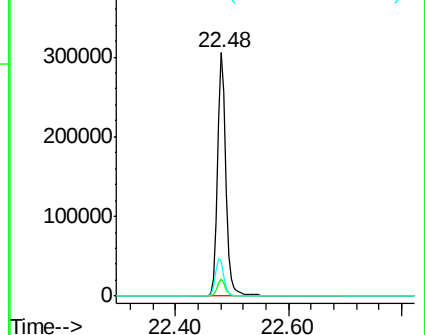
122 14.2 10.5 15.7

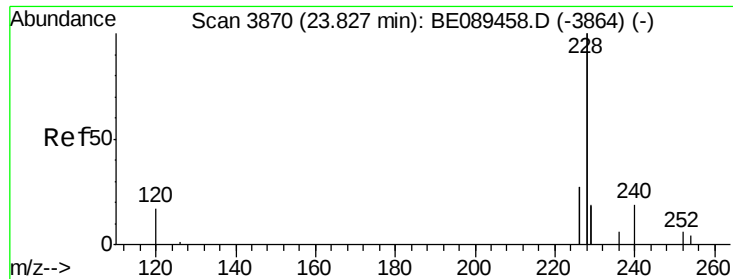


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 8.47 ng

RT: 23.83 min Scan# 3872

Delta R.T. 0.01 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

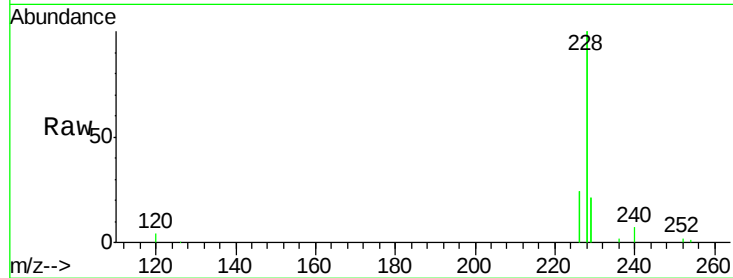
Tgt Ion:228 Resp: 2131625

Ion Ratio Lower Upper

228 100

226 24.1 21.7 32.5

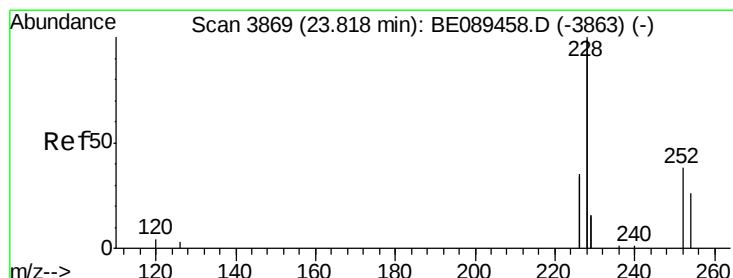
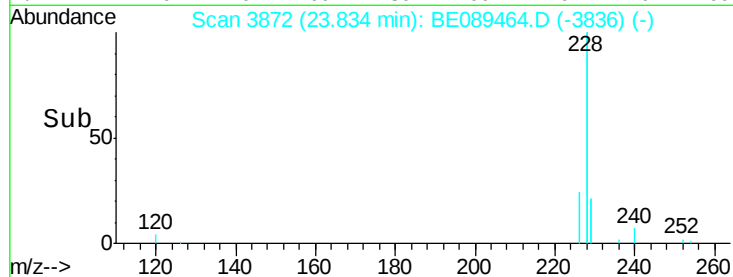
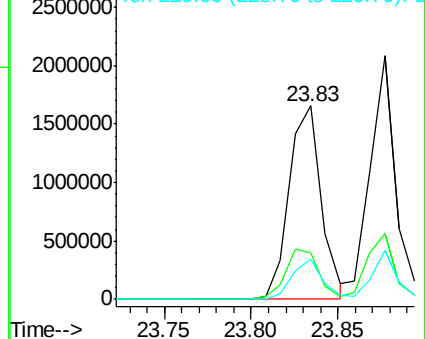
229 20.7 14.8 22.2



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



#24

3,3'-Dichlorobenzidine

Concen: 7.57 ng

RT: 23.82 min Scan# 3870

Delta R.T. -0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

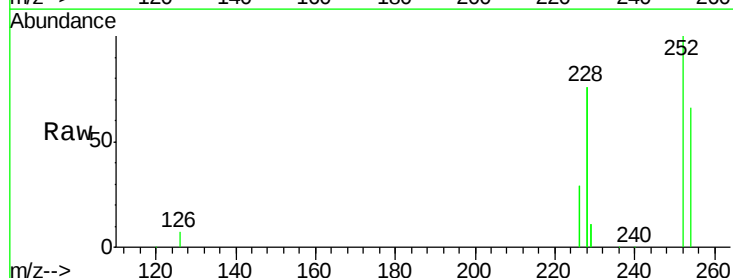
Tgt Ion:252 Resp: 228318

Ion Ratio Lower Upper

252 100

254 66.3 54.6 82.0

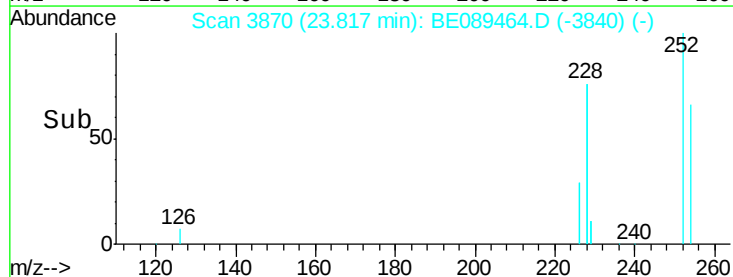
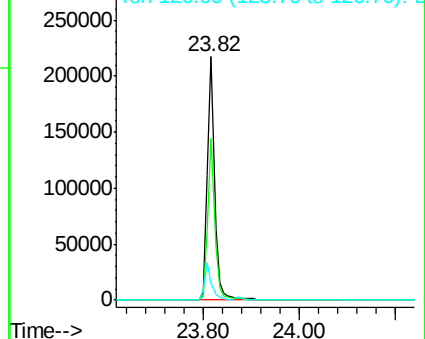
126 6.9 8.0 12.0#

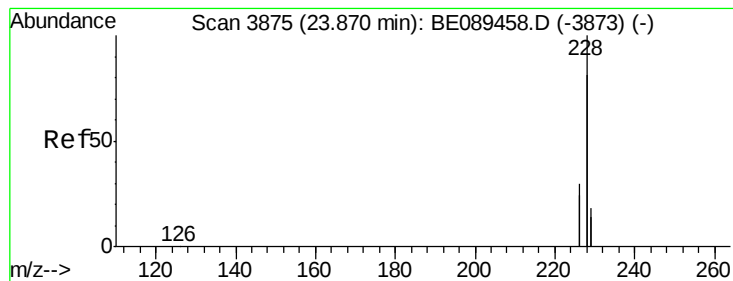


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 7.33 ng

RT: 23.88 min Scan# 3877

Delta R.T. 0.01 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

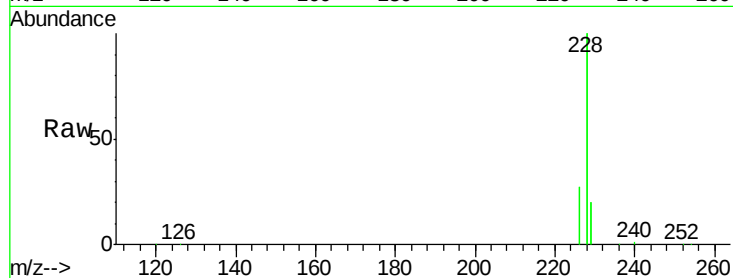
Tgt Ion:228 Resp: 2253156

Ion Ratio Lower Upper

228 100

226 27.2 23.8 35.8

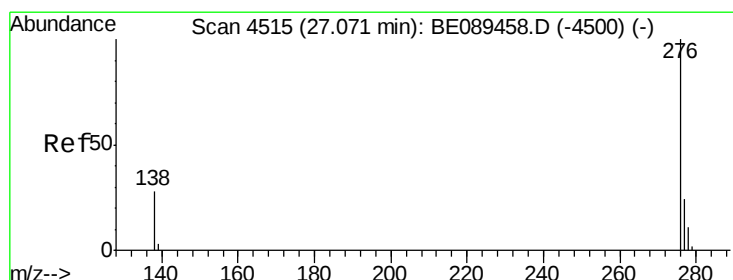
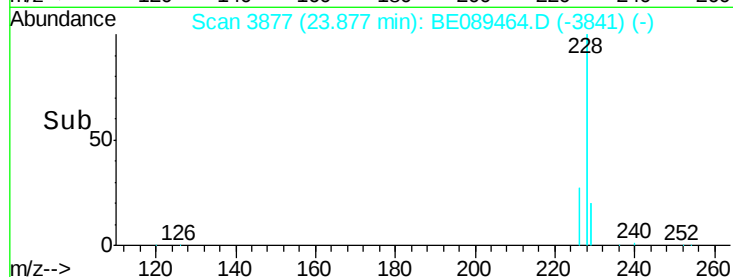
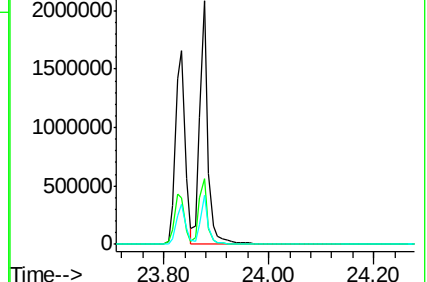
229 20.1 14.3 21.5



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: 7.06 ng

RT: 27.08 min Scan# 4518

Delta R.T. 0.01 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

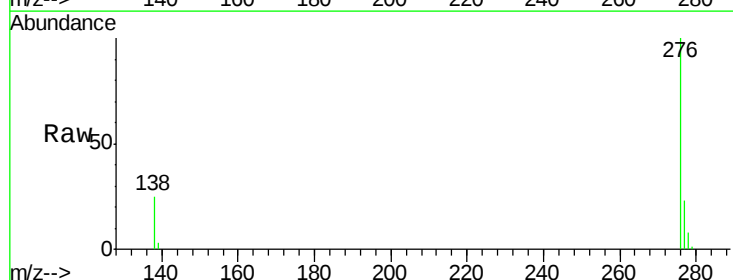
Tgt Ion:276 Resp: 943515

Ion Ratio Lower Upper

276 100

138 30.6 23.3 34.9

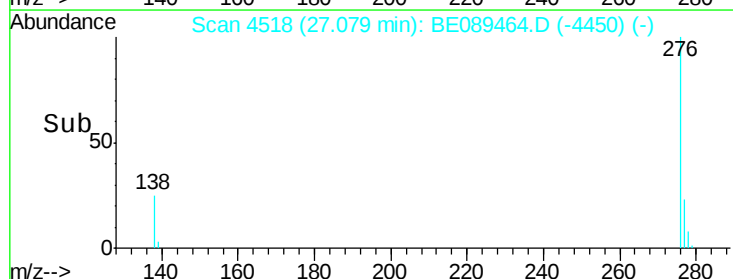
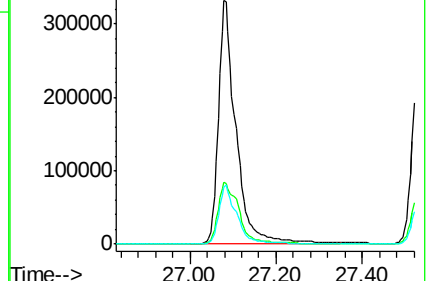
277 25.1 19.0 28.4

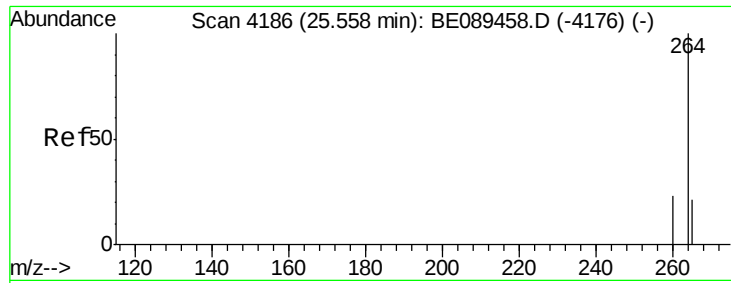


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

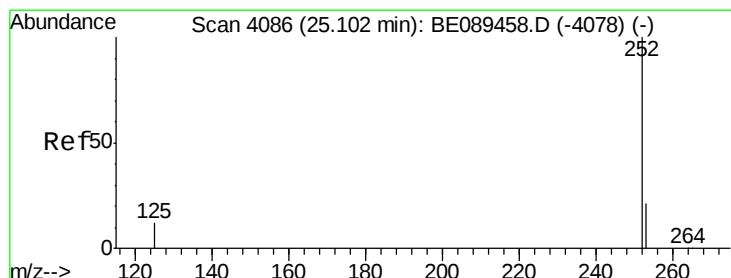
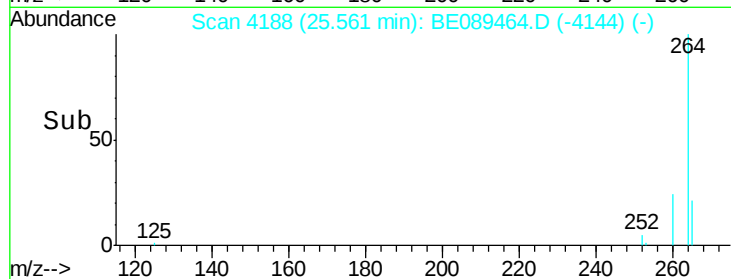
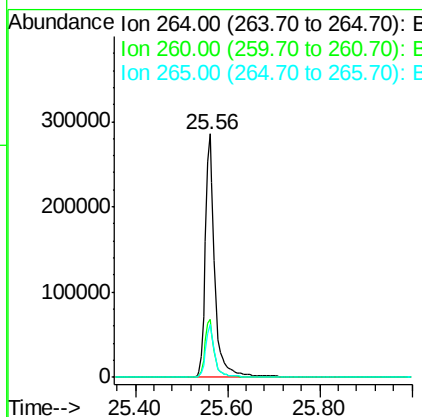
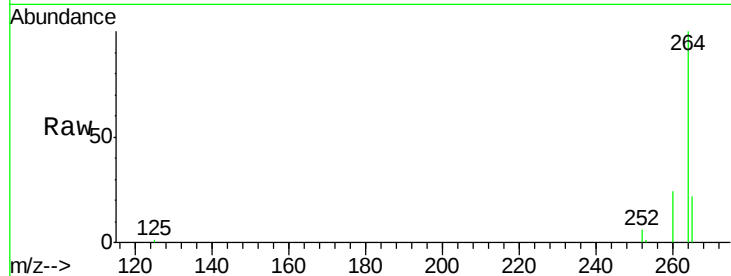




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.56 min Scan# 4186
 Delta R.T. 0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

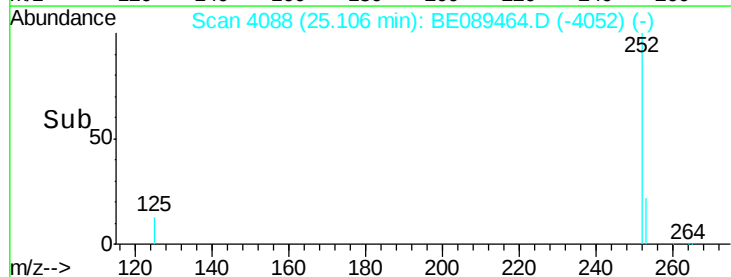
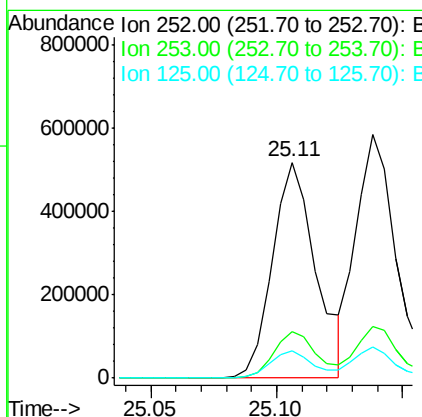
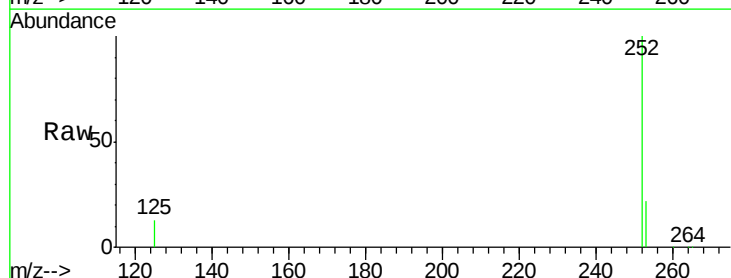
Instrument :
 BNA_E
 ClientSampleId :

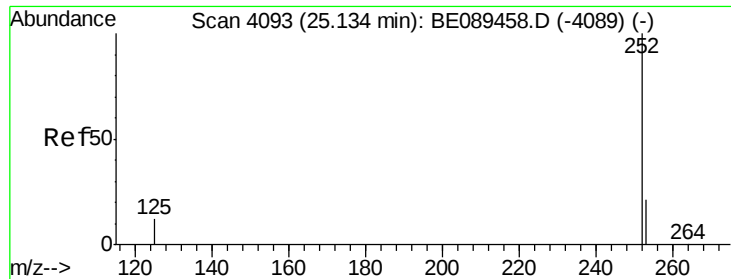
Tgt Ion: 264 Resp: 400562
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.7 28.1
 265 21.6 17.0 25.6



#28
Benzo(b)fluoranthene
 Concen: 7.68 ng
 RT: 25.11 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: BE089464.D
 Acq: 2 Feb 2015 20:27

Tgt Ion: 252 Resp: 617313
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.4 26.0
 125 12.6 10.4 15.6





#29

Benzo(k)fluoranthene

Concen: 7.35 ng

RT: 25.14 min Scan# 4095

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :

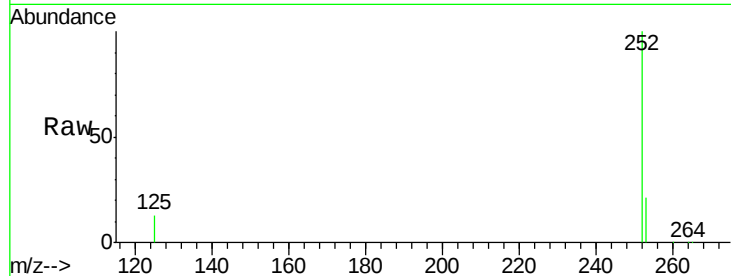
Tgt Ion:252 Resp: 733783

Ion Ratio Lower Upper

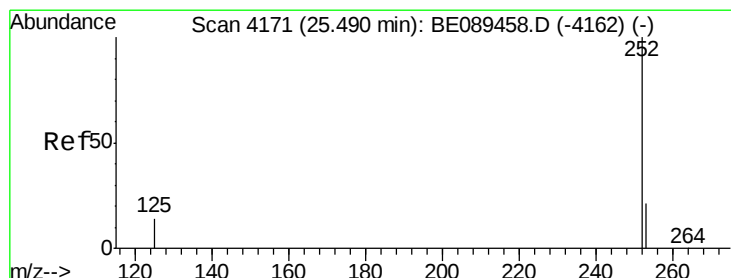
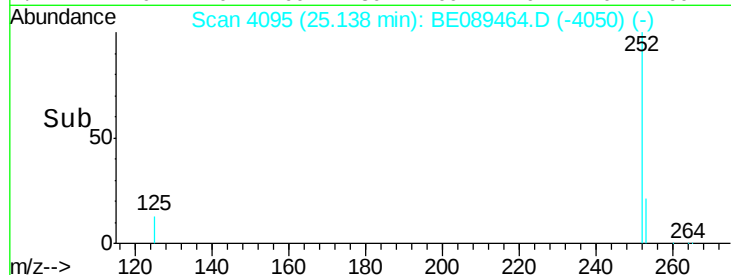
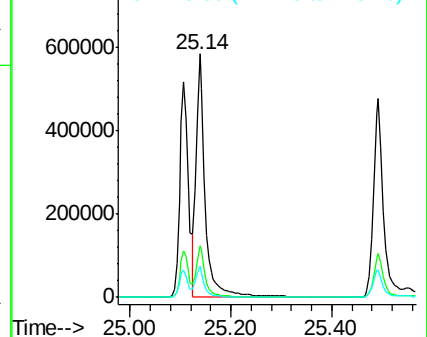
252 100

253 21.4 17.5 26.3

125 12.7 10.3 15.5



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



#30

Benzo(a)pyrene

Concen: 7.35 ng

RT: 25.49 min Scan# 4173

Delta R.T. 0.00 min

Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

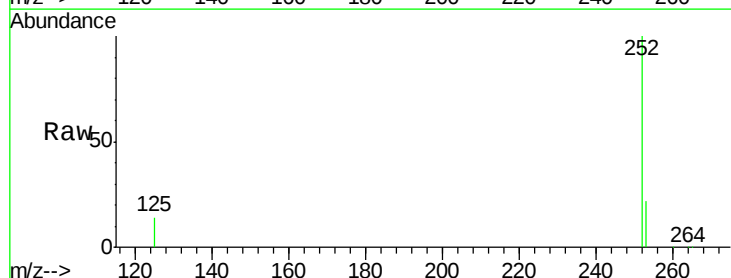
Tgt Ion:252 Resp: 637980

Ion Ratio Lower Upper

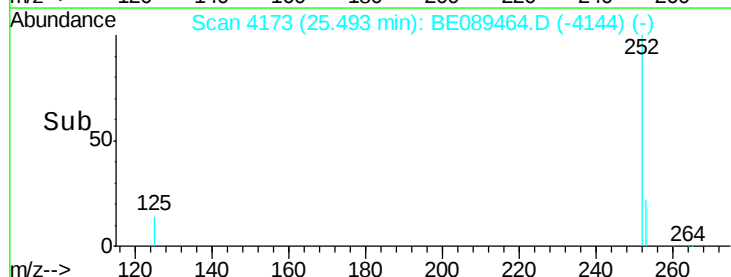
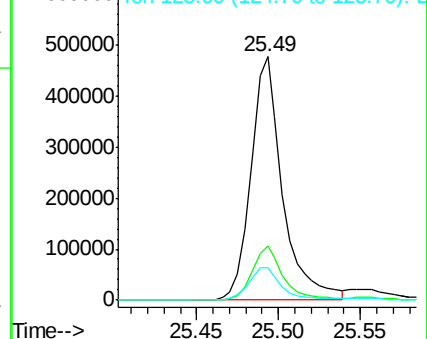
252 100

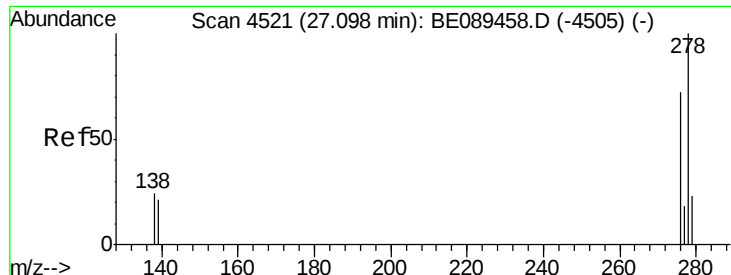
253 22.0 17.5 26.3

125 13.6 11.8 17.8



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: 7.36 ng

RT: 27.11 min Scan# 4525

Delta R.T. 0.01 min

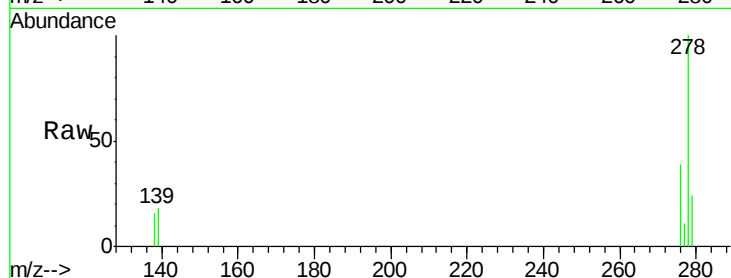
Lab File: BE089464.D

Acq: 2 Feb 2015 20:27

Instrument :

BNA_E

ClientSampleId :



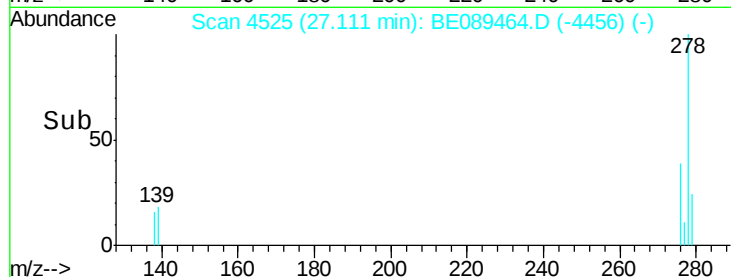
Tgt Ion: 278 Resp: 830044

Ion Ratio Lower Upper

278 100

139 18.0 17.1 25.7

279 24.1 18.8 28.2



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

