

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089482.D
 Acq On : 4 Feb 2015 3:25
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Quant Time: Feb 04 05:57:15 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	51572	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	210027	5.00	ng	0.00
13) Acenaphthene-d10	16.61	164	91448	5.00	ng	0.00
17) Phenanthrene-d10	19.93	188	171762	5.00	ng	0.00
20) Chrysene-d12	23.78	240	164308	5.00	ng	0.00
27) Perylene-d12	25.49	264	149532	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.73	112	15775	0.95	ng	0.00
4) Phenol-d6	8.85	99	20380	0.97	ng	0.00
8) Nitrobenzene-d5	10.79	82	15127	0.95	ng	0.00
14) 2,4,6-Tribromophenol	18.52	330	2635	0.83	ng	0.00
15) 2-Fluorobiphenyl	15.06	172	23899	0.99	ng	0.00
22) Terphenyl-d14	22.43	244	23759	1.02	ng	0.00

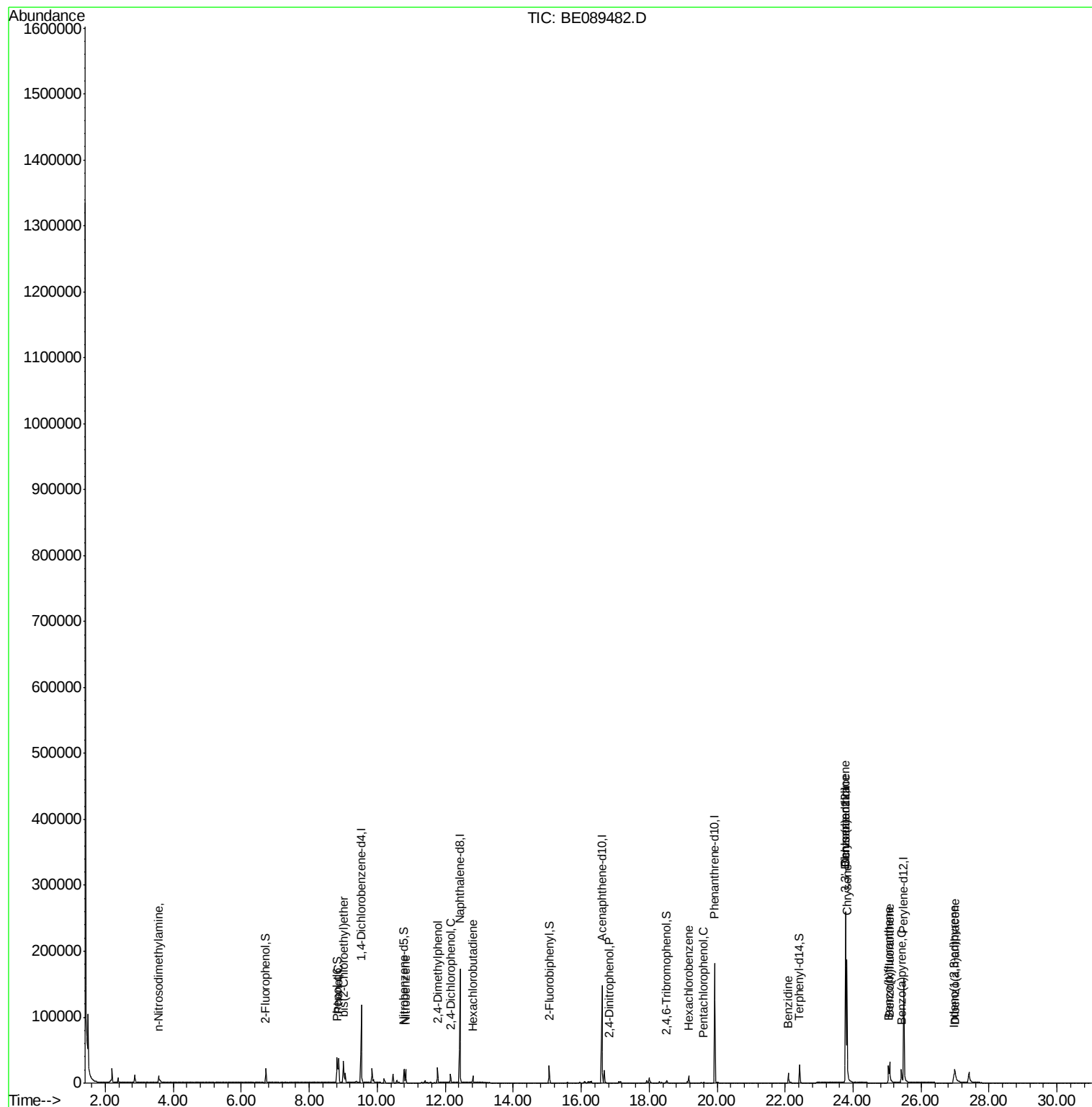
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.56	42	9280	0.96	ng	# 70
5) Phenol	8.87	94	20025	0.87	ng	# 61
6) bis(2-Chloroethyl)ether	9.01	93	16052	0.97	ng	# 100
9) Nitrobenzene	10.83	77	17730	0.98	ng	99
10) 2,4-Dimethylphenol	11.78	122	12534	0.95	ng	92
11) 2,4-Dichlorophenol	12.16	162	9262	0.95	ng	89
12) Hexachlorobutadiene	12.81	225	6455	0.99	ng	99
16) 2,4-Dinitrophenol	16.85	184	164	0.69	ng	96
18) Hexachlorobenzene	19.17	284	8862	1.00	ng	99
19) Pentachlorophenol	19.61	266	743	0.75	ng	91
21) Benzidine	22.10	184	16967	2.15	ng	99
23) Benzo(a)anthracene	23.77	228	143943	0.99	ng	98
24) 3,3'-Dichlorobenzidine	23.77	252	11423	0.94	ng	# 90
25) Chrysene	23.82	228	151373	1.00	ng	98
26) Indeno(1,2,3-cd)pyrene	26.97	276	34059	0.91	ng	98
28) Benzo(b)fluoranthene	25.04	252	23134	0.84	ng	99
29) Benzo(k)fluoranthene	25.07	252	42898	1.11	ng	99
30) Benzo(a)pyrene	25.42	252	25188	0.91	ng	99
31) Dibenzo(a,h)anthracene	27.00	278	26415	0.88	ng	99

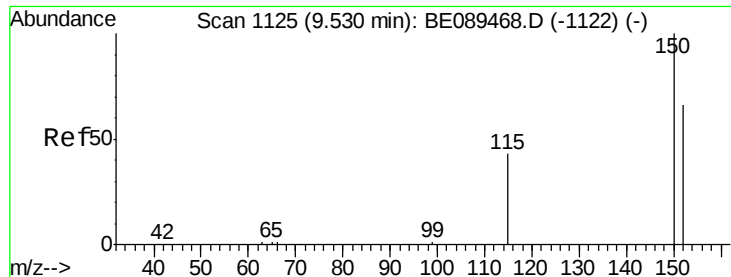
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

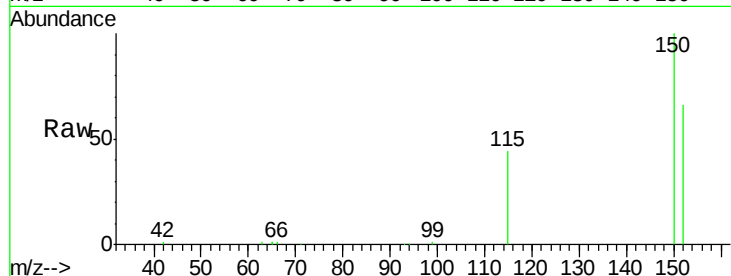
Tgt Ion:152 Resp: 51572

Ion Ratio Lower Upper

152 100

150 151.4 122.1 183.1

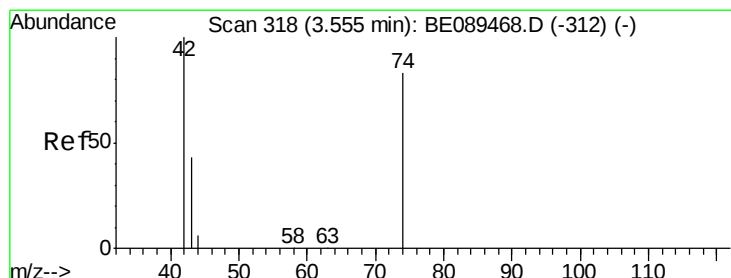
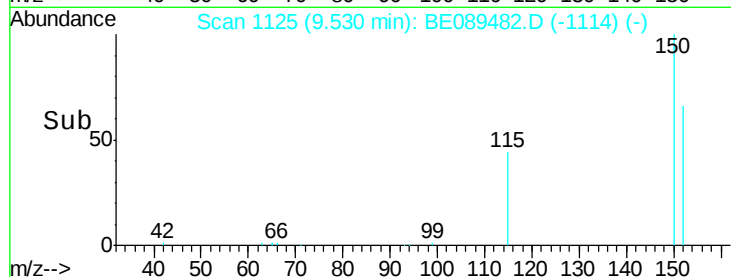
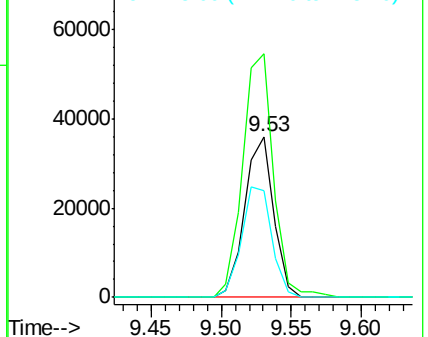
115 66.1 53.2 79.8



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: 0.96 ng

RT: 3.56 min Scan# 319

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

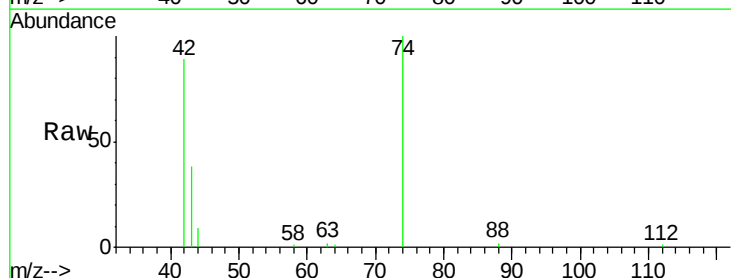
Tgt Ion: 42 Resp: 9280

Ion Ratio Lower Upper

42 100

74 112.2 65.4 98.2#

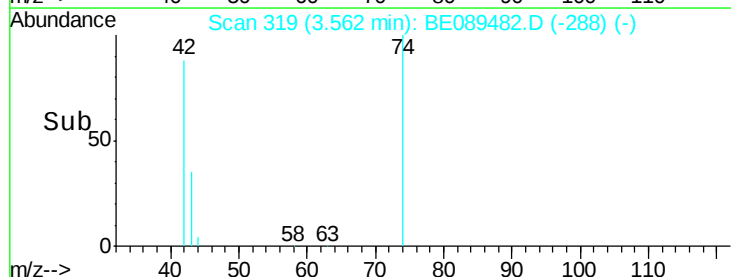
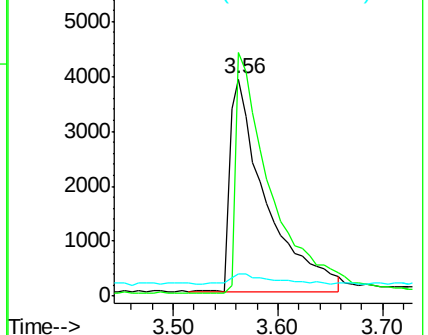
44 10.4 11.7 17.5#

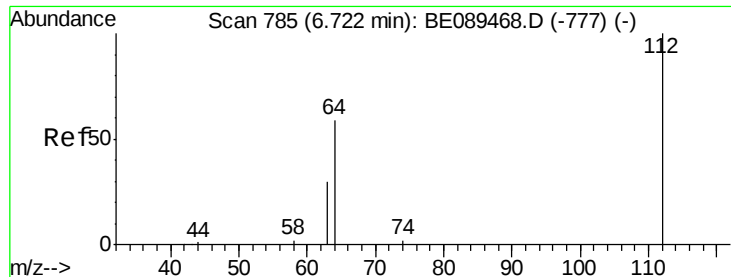


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 0.95 ng

RT: 6.73 min Scan# 786

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

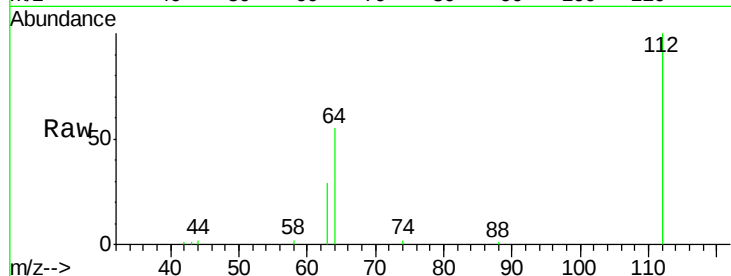
Tgt Ion: 112 Resp: 15775

Ion Ratio Lower Upper

112 100

64 55.3 47.0 70.6

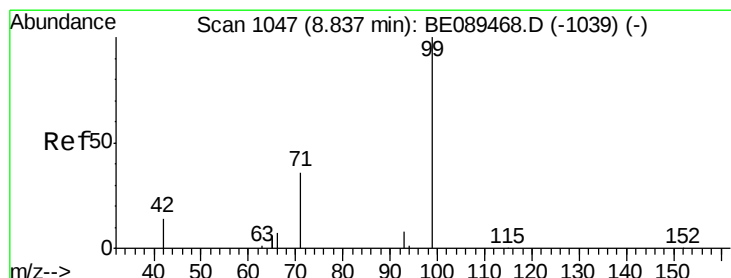
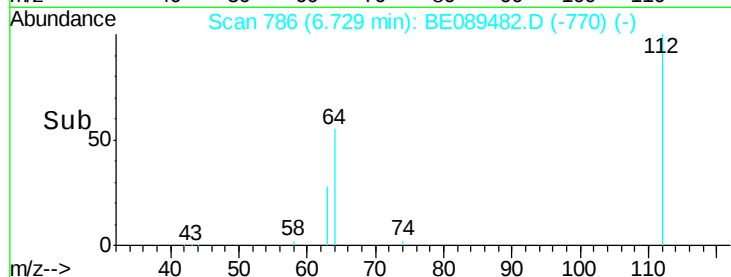
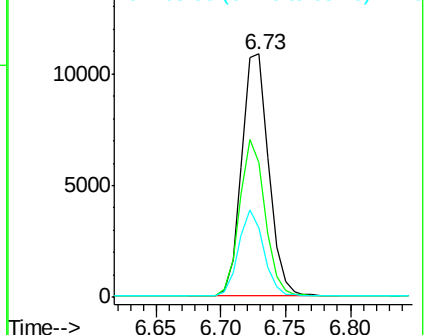
63 28.5 24.2 36.2



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: 0.97 ng

RT: 8.85 min Scan# 1048

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

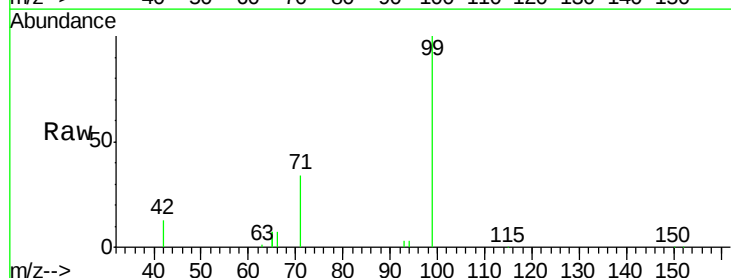
Tgt Ion: 99 Resp: 20380

Ion Ratio Lower Upper

99 100

42 13.3 11.8 17.6

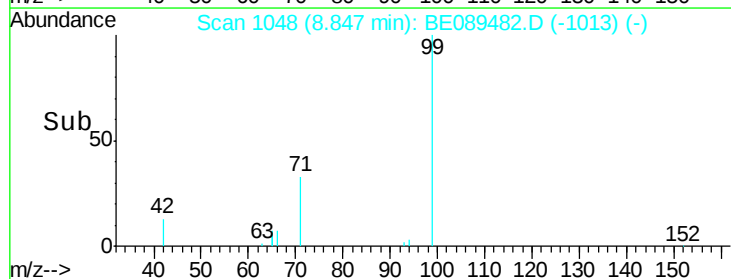
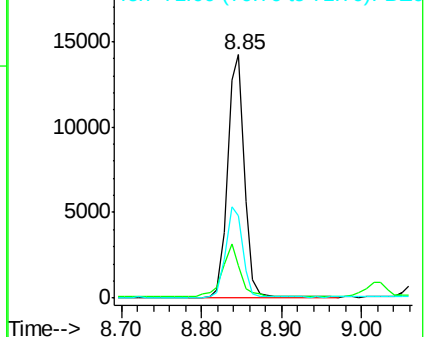
71 33.6 28.7 43.1

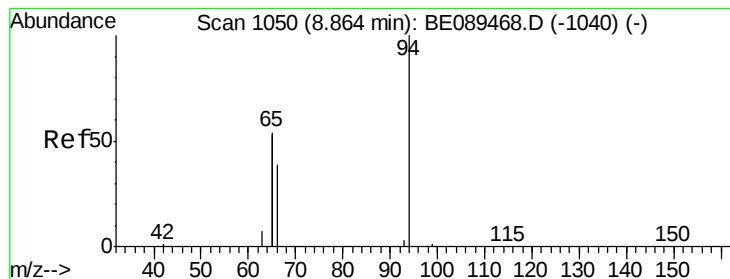


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 0.87 ng

RT: 8.87 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

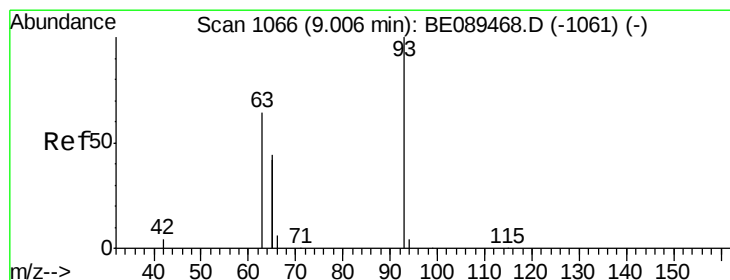
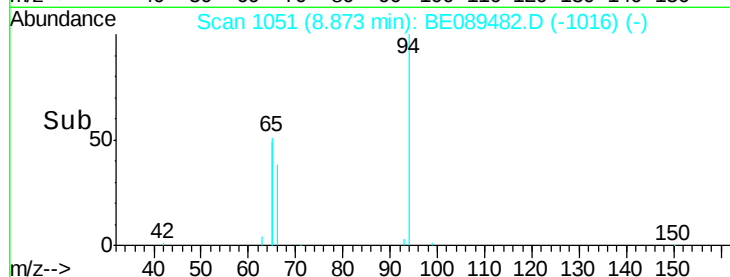
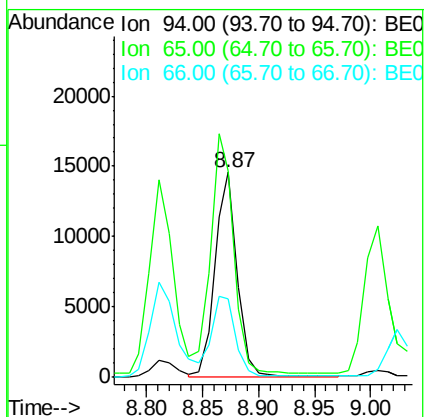
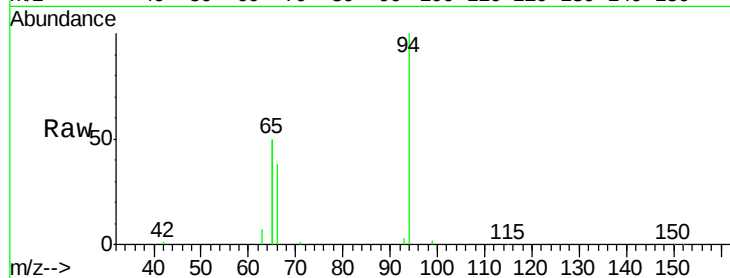
Tgt Ion: 94 Resp: 20025

Ion Ratio Lower Upper

94 100

65 100.9 33.9 73.9#

66 38.0 19.1 59.1



#6

bis(2-Chloroethyl)ether

Concen: 0.97 ng

RT: 9.01 min Scan# 1066

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

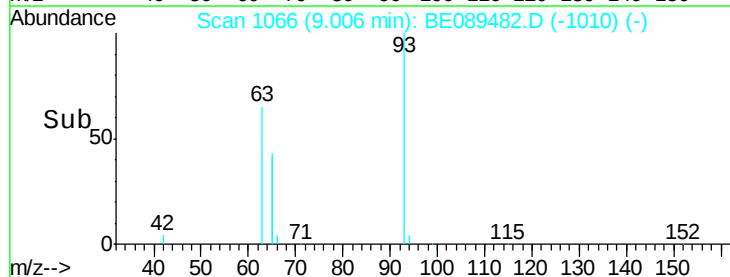
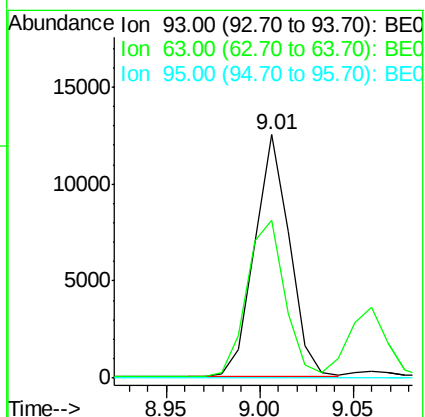
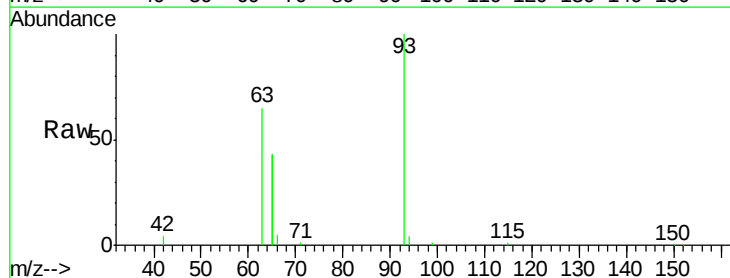
Tgt Ion: 93 Resp: 16052

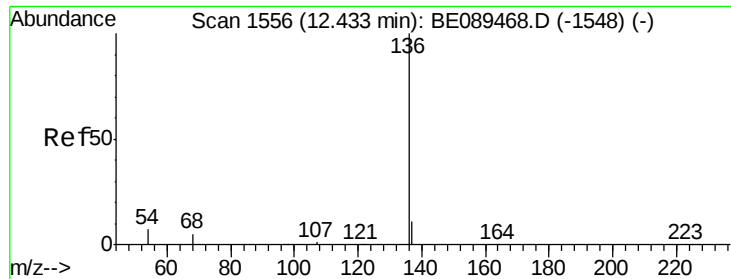
Ion Ratio Lower Upper

93 100

63 71.6 57.0 85.6

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

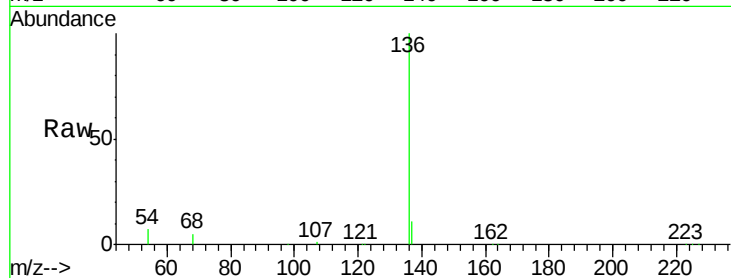
Tgt Ion: 136 Resp: 210027

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

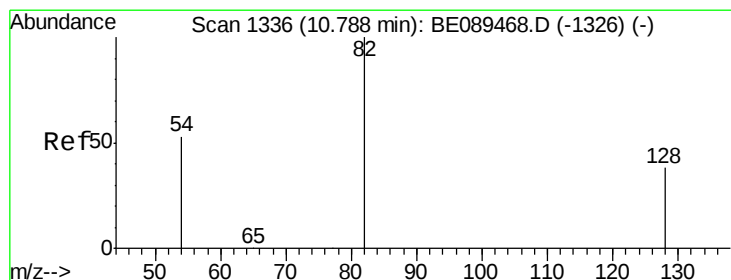
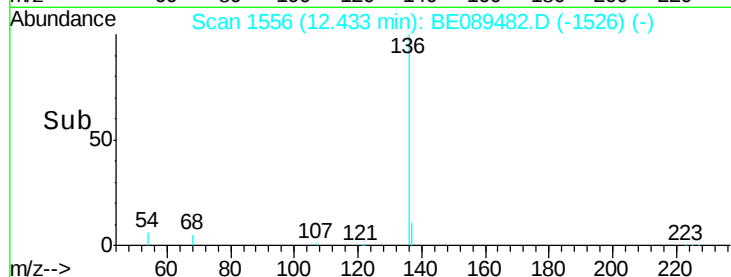
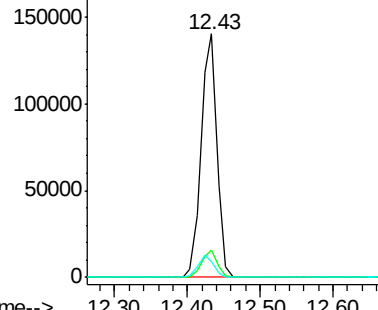
54 6.5 5.4 8.0



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: 0.95 ng

RT: 10.79 min Scan# 1337

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

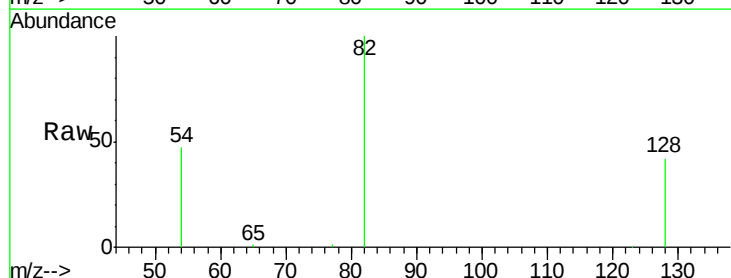
Tgt Ion: 82 Resp: 15127

Ion Ratio Lower Upper

82 100

128 41.8 30.3 45.5

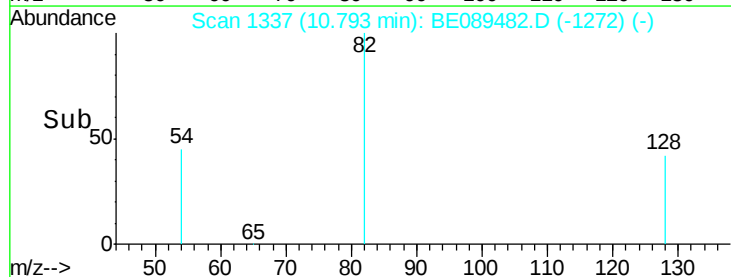
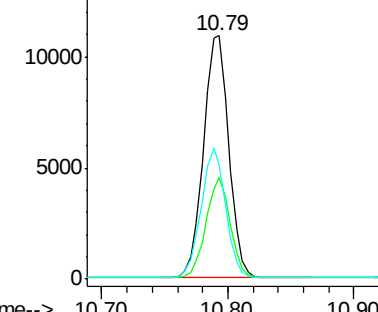
54 47.0 43.1 64.7

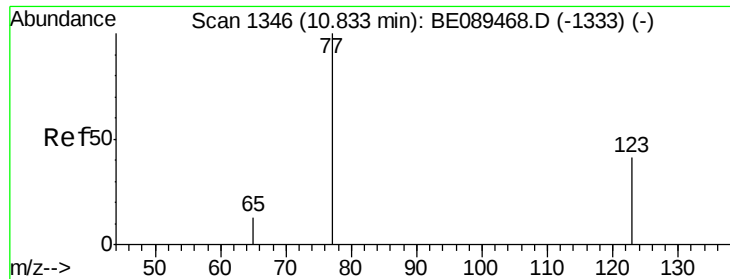


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.98 ng

RT: 10.83 min Scan# 1346

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

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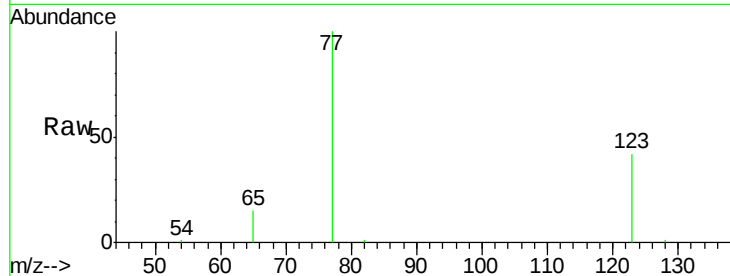
Tgt Ion: 77 Resp: 17730

Ion Ratio Lower Upper

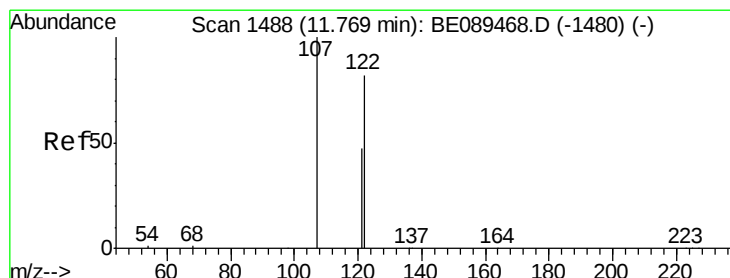
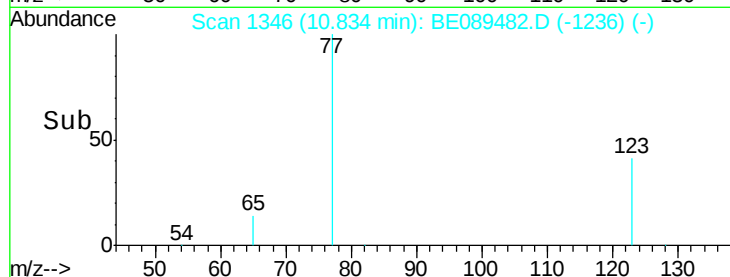
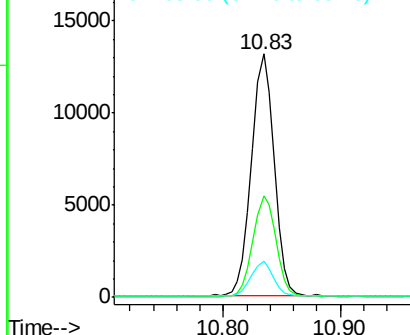
77 100

123 41.9 33.4 50.0

65 14.2 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: 0.95 ng

RT: 11.78 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

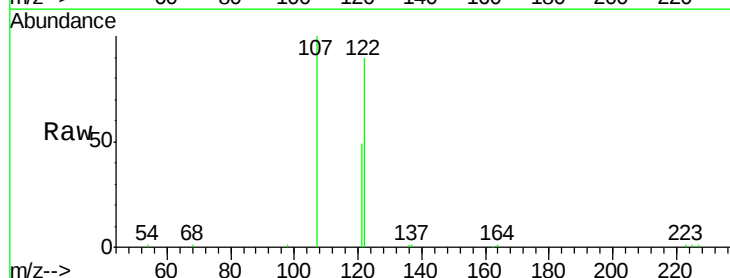
Tgt Ion: 122 Resp: 12534

Ion Ratio Lower Upper

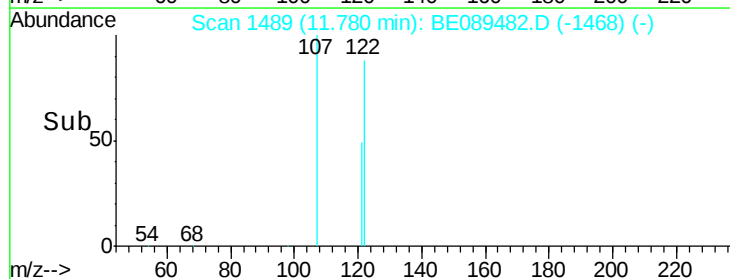
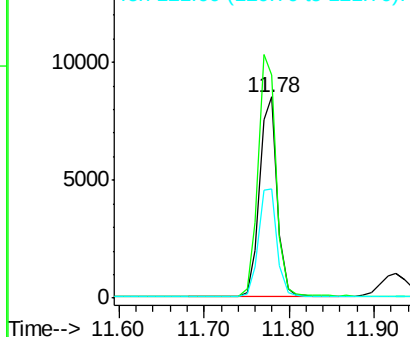
122 100

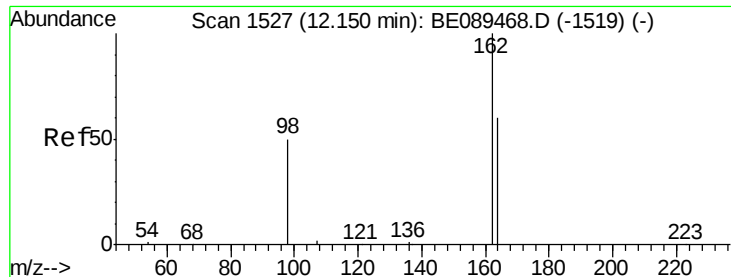
107 111.0 97.3 145.9

121 54.1 46.4 69.6



Abundance Ion 122.00 (121.70 to 122.70): BE
Ion 107.00 (106.70 to 107.70): BE
Ion 121.00 (120.70 to 121.70): BE





#11

2,4-Dichlorophenol

Concen: 0.95 ng

RT: 12.16 min Scan# 1528

Delta R.T. 0.01 min

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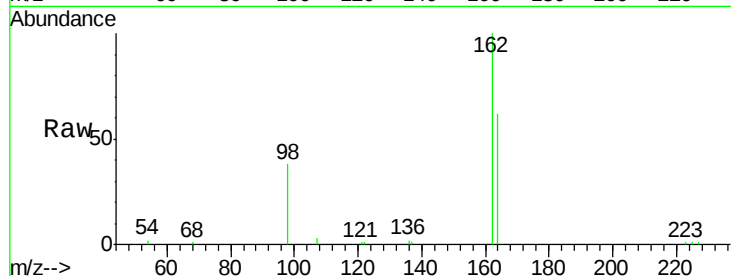
Tgt Ion:162 Resp: 9262

Ion Ratio Lower Upper

162 100

164 62.3 39.9 79.9

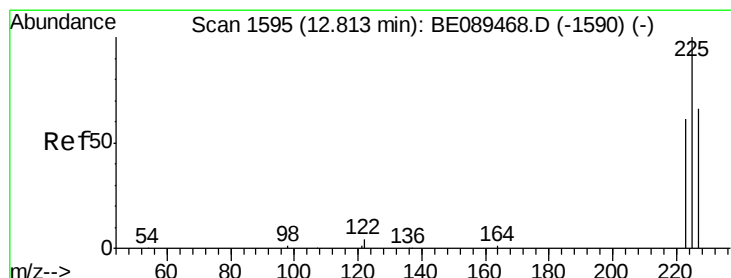
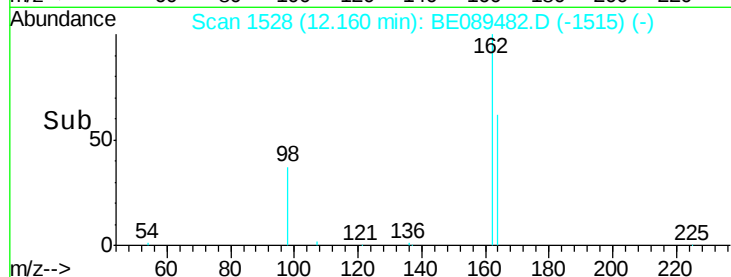
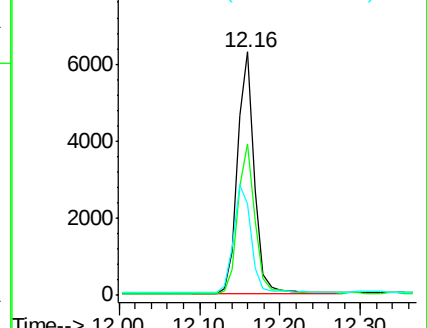
98 37.6 31.3 71.3



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: 0.99 ng

RT: 12.81 min Scan# 1595

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

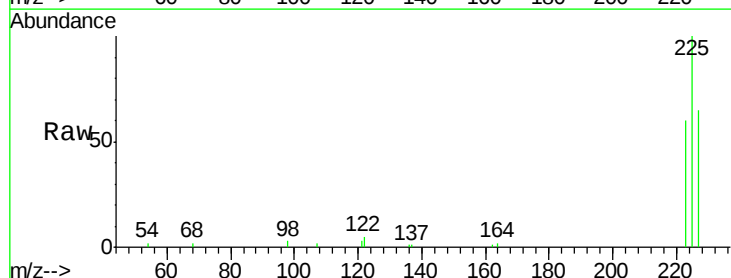
Tgt Ion:225 Resp: 6455

Ion Ratio Lower Upper

225 100

223 61.9 49.4 74.0

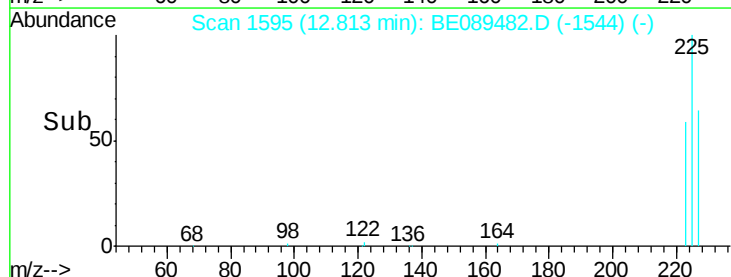
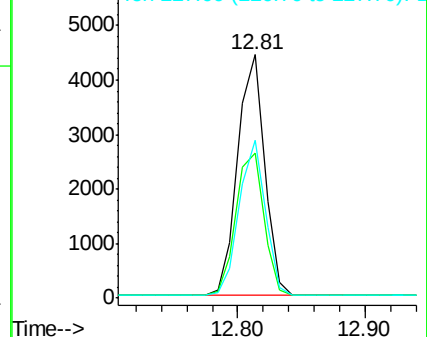
227 62.2 51.2 76.8

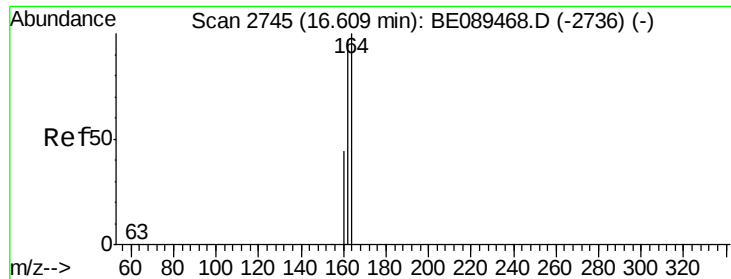


Abundance Ion 225.00 (224.70 to 225.70): E

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: 16.61 min Scan# 2745

Delta R.T. 0.00 min

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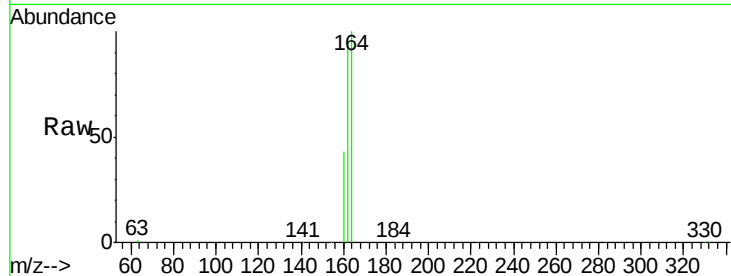
Tgt Ion:164 Resp: 91448

Ion Ratio Lower Upper

164 100

162 95.8 77.6 116.4

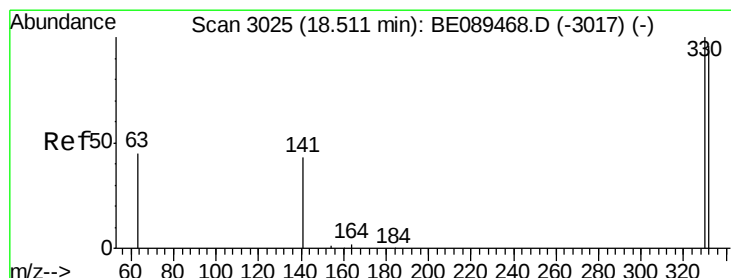
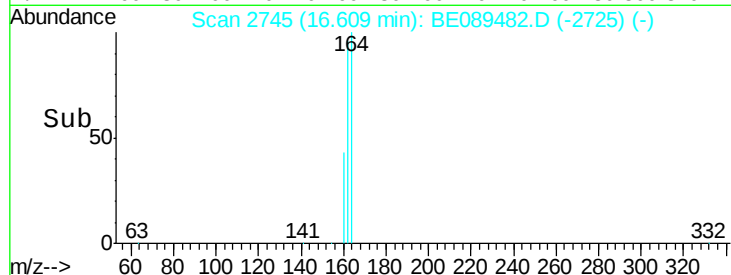
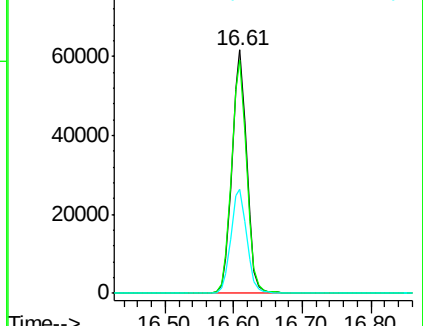
160 43.0 35.6 53.4



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: 0.83 ng

RT: 18.52 min Scan# 3026

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

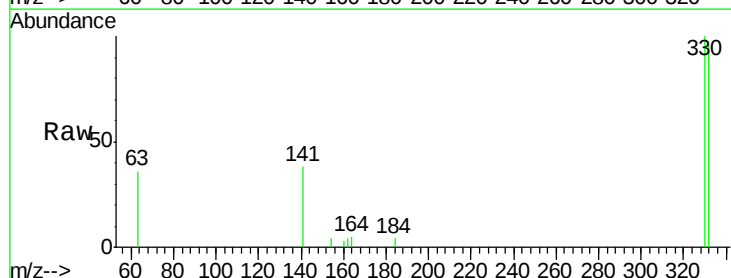
Tgt Ion:330 Resp: 2635

Ion Ratio Lower Upper

330 100

332 98.0 78.0 117.0

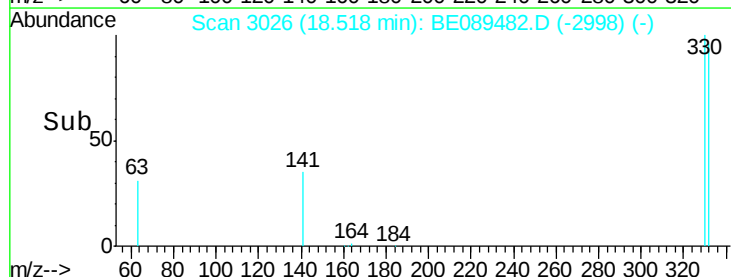
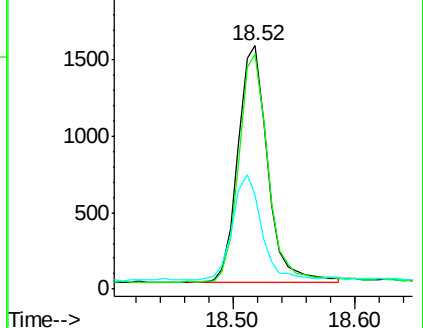
141 43.1 33.8 50.6

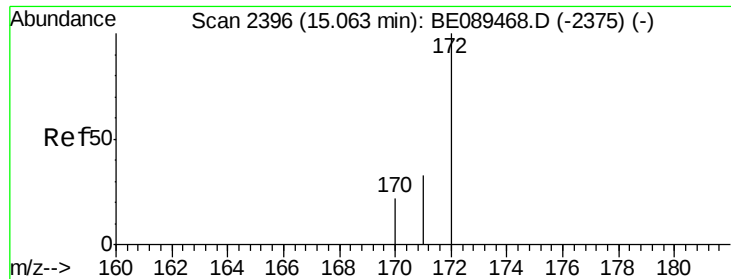


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

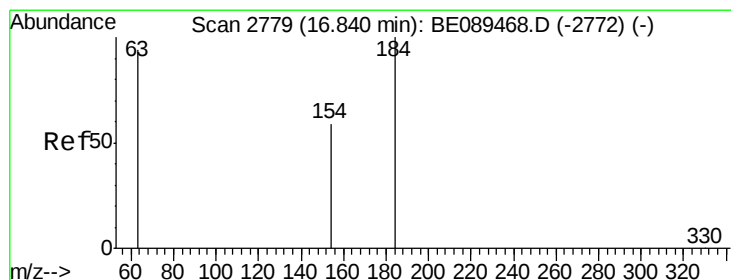
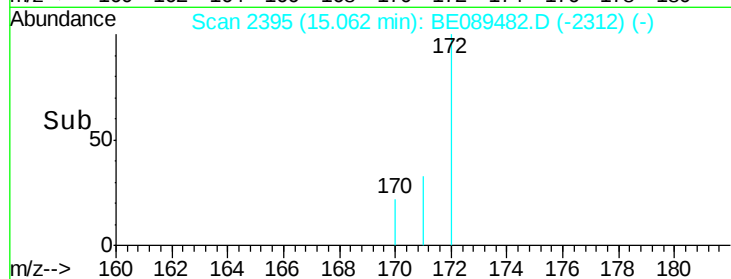
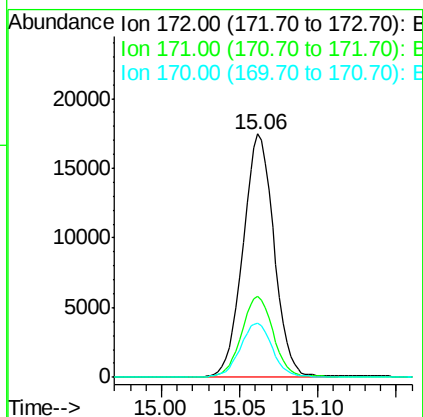
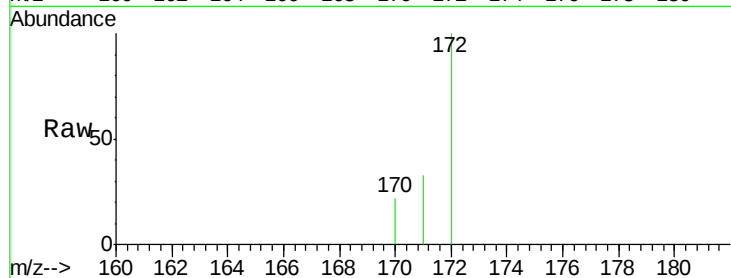




#15
2-Fluorobiphenyl
Concen: 0.99 ng
RT: 15.06 min Scan# 2395
Delta R.T. -0.00 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

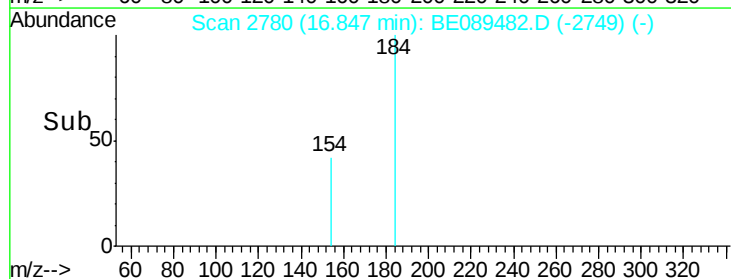
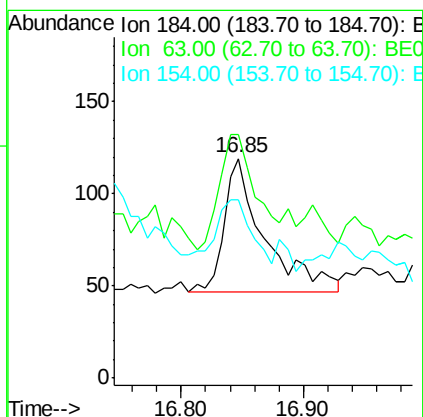
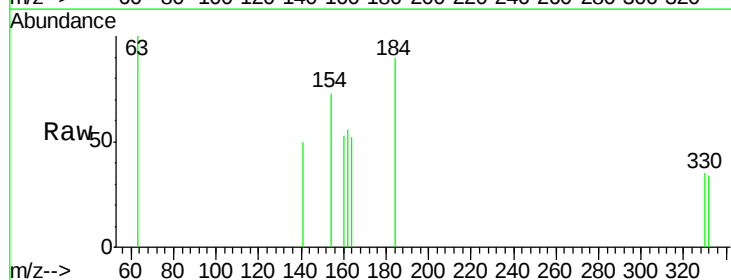
Instrument :
BNA_E
LabSampleId :
SSTDCCC001

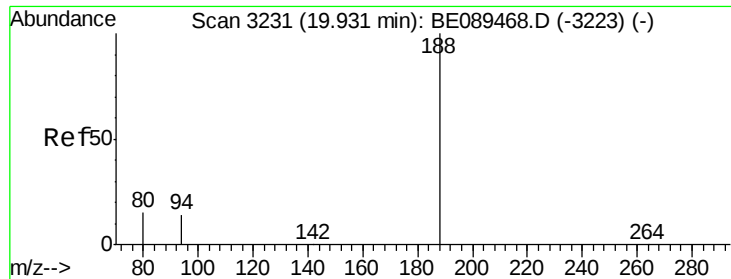
Tgt Ion:172 Resp: 23899
Ion Ratio Lower Upper
172 100
171 33.1 26.8 40.2
170 22.1 17.7 26.5



#16
2,4-Dinitrophenol
Concen: 0.69 ng
RT: 16.85 min Scan# 2780
Delta R.T. 0.01 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

Tgt Ion:184 Resp: 164
Ion Ratio Lower Upper
184 100
63 110.9 92.1 138.1
154 81.5 61.4 92.2

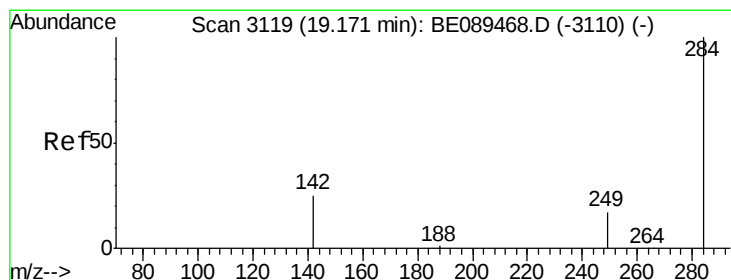
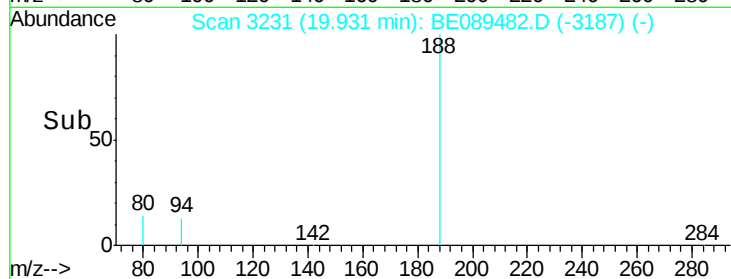
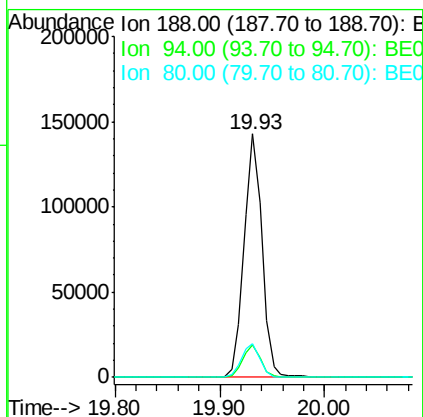
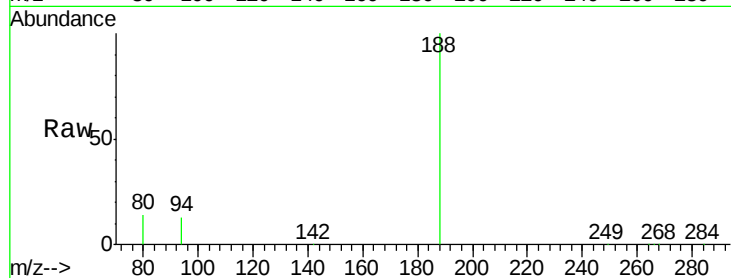




#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.93 min Scan# 3231
Delta R.T. 0.00 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

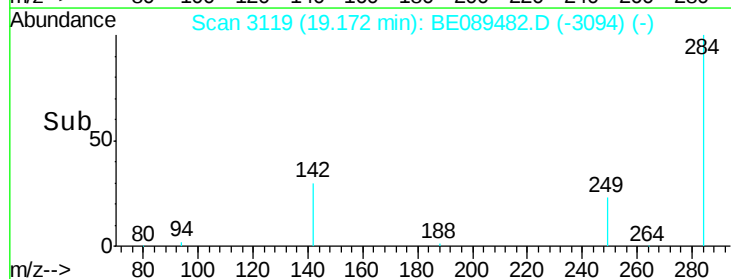
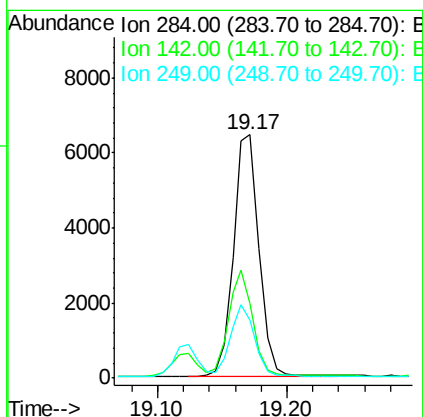
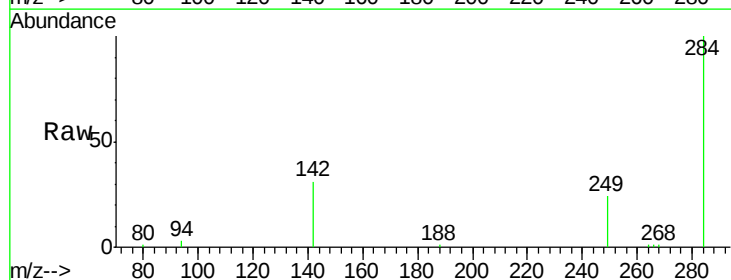
Instrument :
BNA_E
LabSampleId :
SSTDCCC001

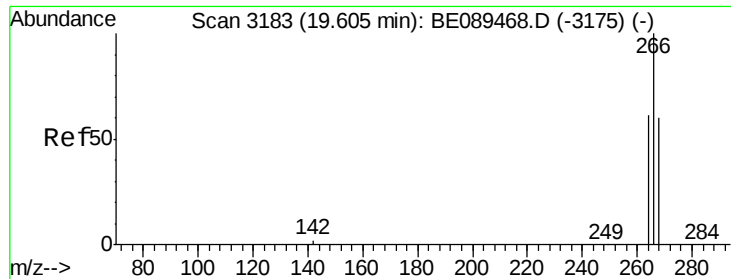
Tgt Ion:188 Resp: 171762
Ion Ratio Lower Upper
188 100
94 13.2 11.1 16.7
80 13.7 11.8 17.6



#18
Hexachlorobenzene
Concen: 1.00 ng
RT: 19.17 min Scan# 3119
Delta R.T. 0.00 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

Tgt Ion:284 Resp: 8862
Ion Ratio Lower Upper
284 100
142 30.7 24.4 36.6
249 23.7 18.2 27.2

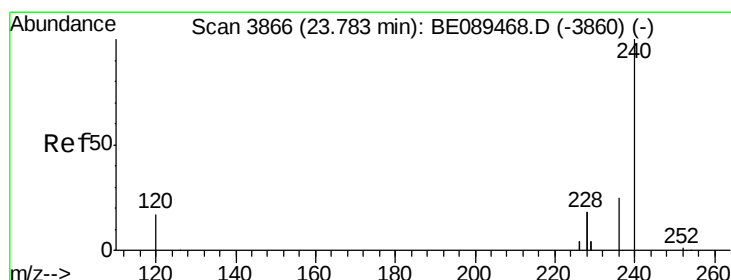
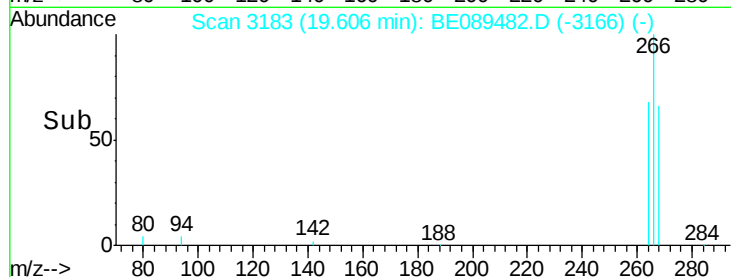
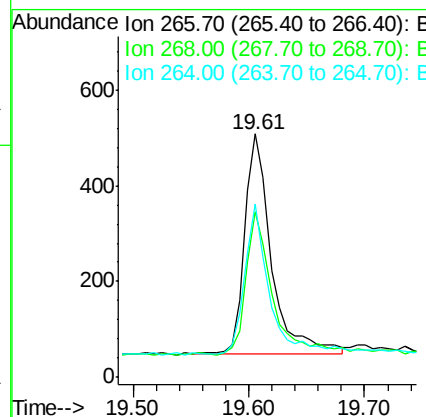
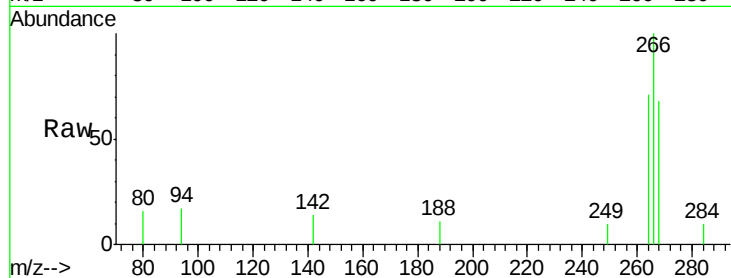




#19
 Pentachlorophenol
 Concen: 0.75 ng
 RT: 19.61 min Scan# 3183
 Delta R.T. 0.00 min
 Lab File: BE089482.D
 Acq: 4 Feb 2015 3:25

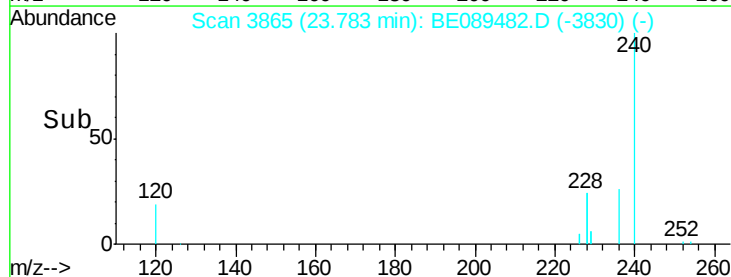
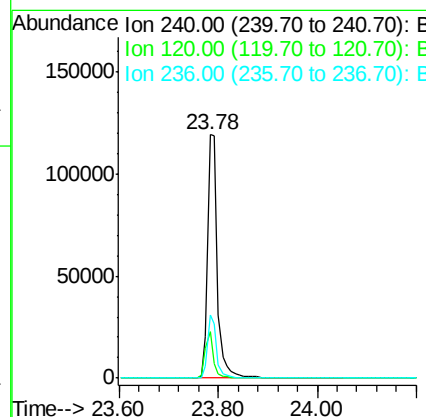
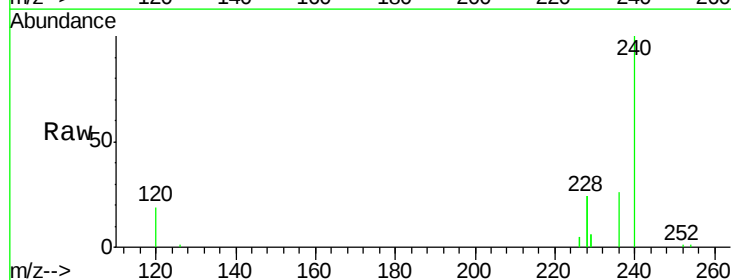
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

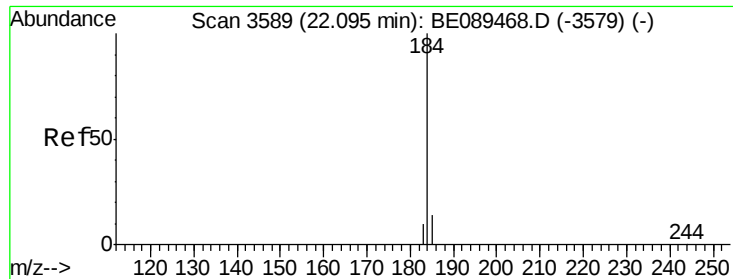
Tgt Ion:266 Resp: 743
 Ion Ratio Lower Upper
 266 100
 268 68.1 50.0 75.0
 264 71.1 50.6 75.8



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.78 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: BE089482.D
 Acq: 4 Feb 2015 3:25

Tgt Ion:240 Resp: 164308
 Ion Ratio Lower Upper
 240 100
 120 18.9 13.8 20.6
 236 25.7 20.2 30.2





#21

Benzidine

Concen: 2.15 ng

RT: 22.10 min Scan# 3589

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

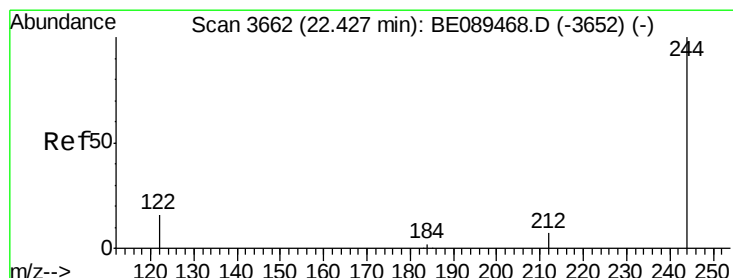
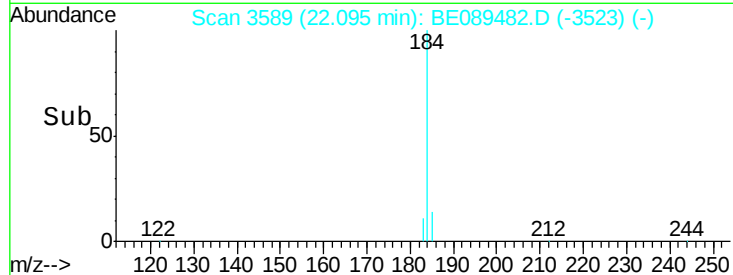
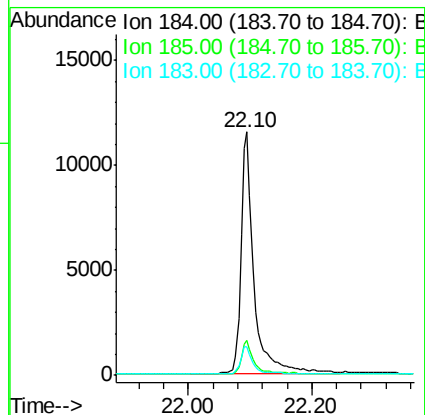
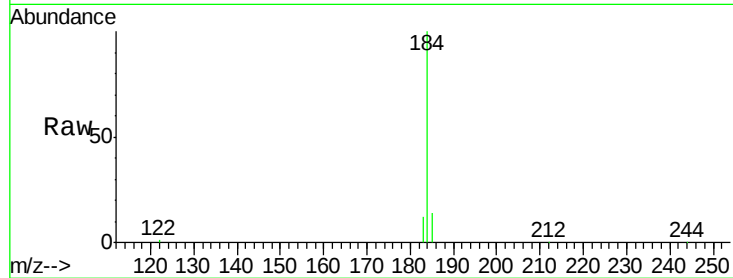
Tgt Ion:184 Resp: 16967

Ion Ratio Lower Upper

184 100

185 14.3 12.0 18.0

183 11.6 9.0 13.4



#22

Terphenyl-d14

Concen: 1.02 ng

RT: 22.43 min Scan# 3662

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

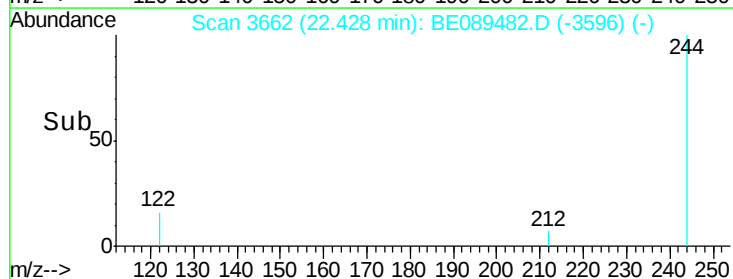
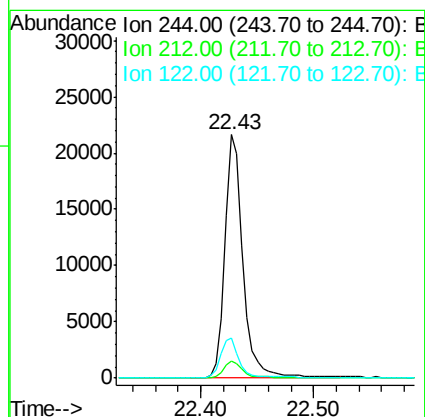
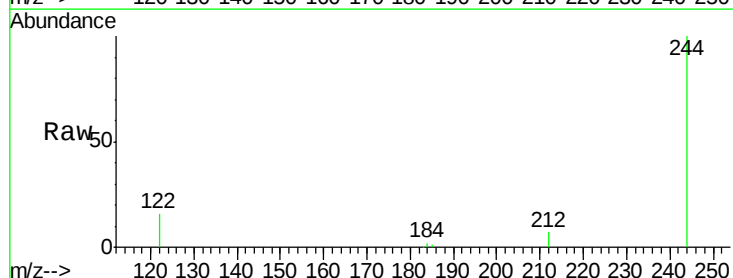
Tgt Ion:244 Resp: 23759

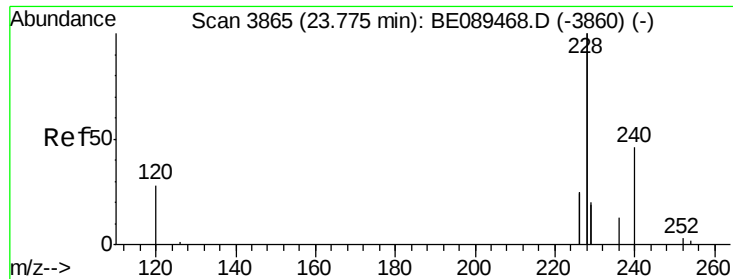
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 16.5 12.6 19.0





#23

Benzo(a)anthracene

Concen: 0.99 ng

RT: 23.77 min Scan# 3864

Delta R.T. -0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

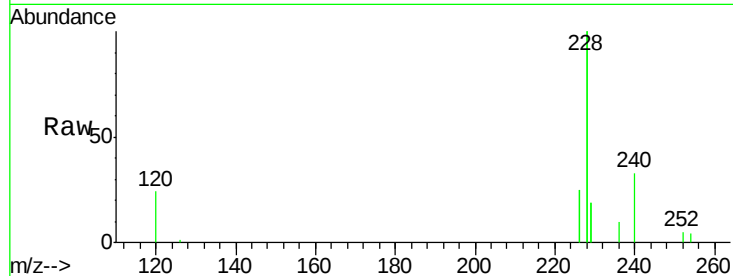
Tgt Ion:228 Resp: 143943

Ion Ratio Lower Upper

228 100

226 25.4 19.6 29.4

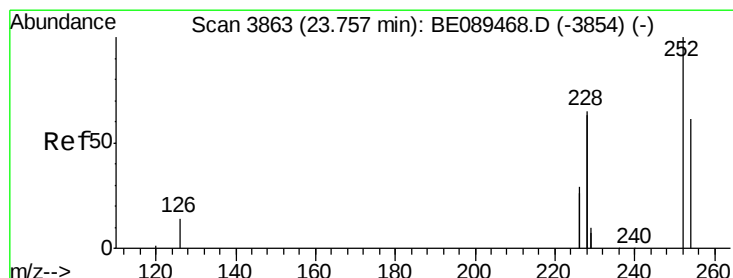
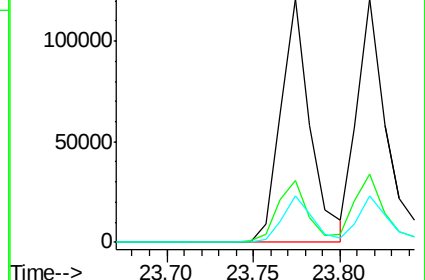
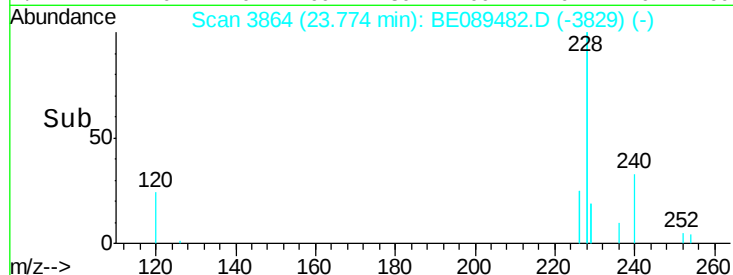
229 19.2 15.9 23.9



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: 0.94 ng

RT: 23.77 min Scan# 3863

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

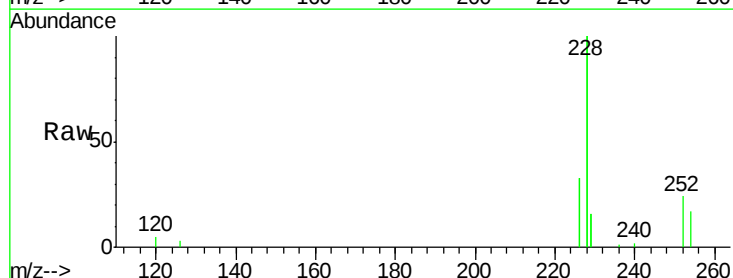
Tgt Ion:252 Resp: 11423

Ion Ratio Lower Upper

252 100

254 68.4 48.6 73.0

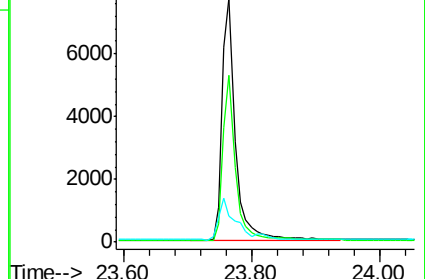
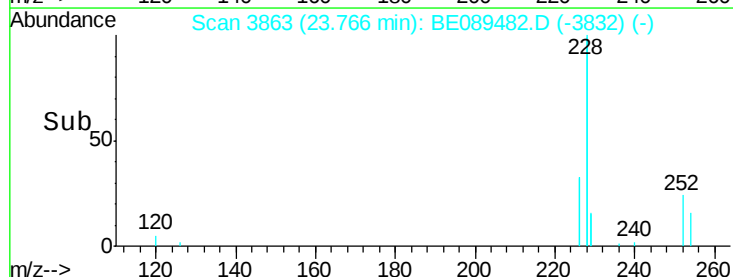
126 10.8 12.4 18.6#

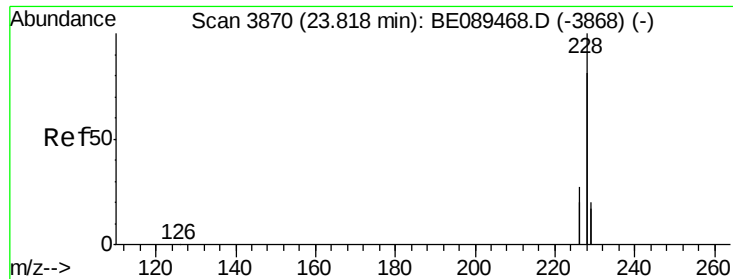


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 1.00 ng

RT: 23.82 min Scan# 3869

Delta R.T. -0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

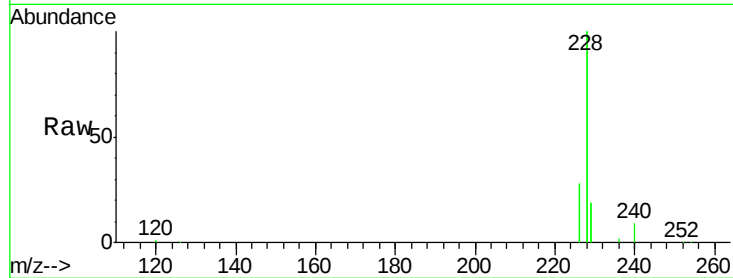
Tgt Ion:228 Resp: 151373

Ion Ratio Lower Upper

228 100

226 28.2 21.8 32.8

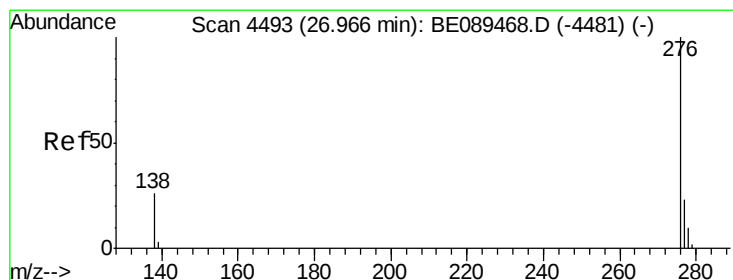
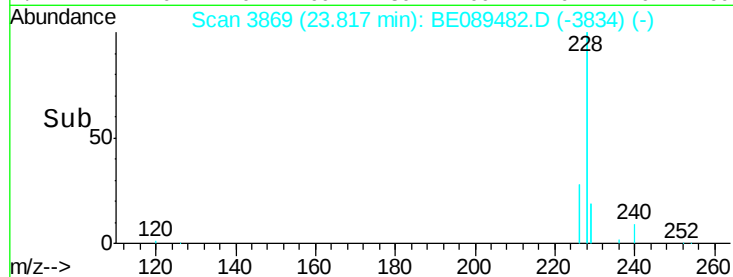
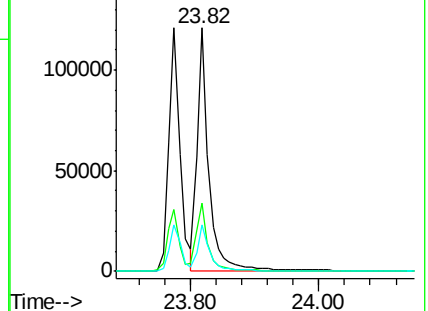
229 19.3 16.2 24.2



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: 0.91 ng

RT: 26.97 min Scan# 4493

Delta R.T. 0.01 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

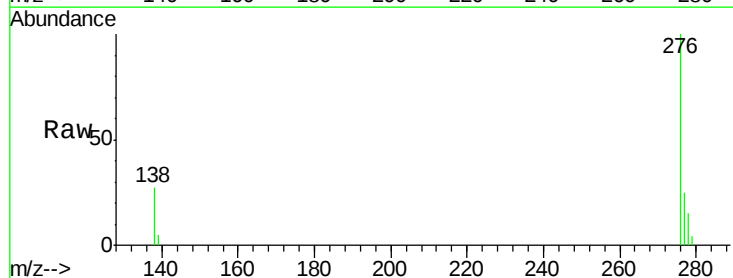
Tgt Ion:276 Resp: 34059

Ion Ratio Lower Upper

276 100

138 29.5 24.2 36.4

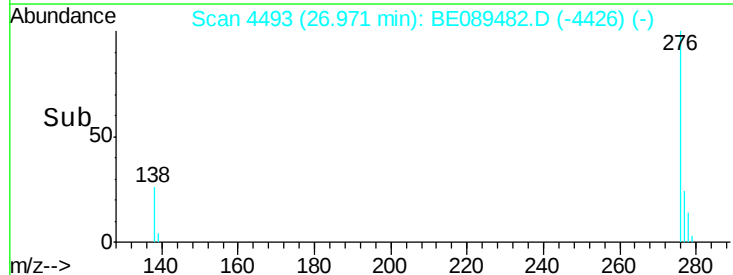
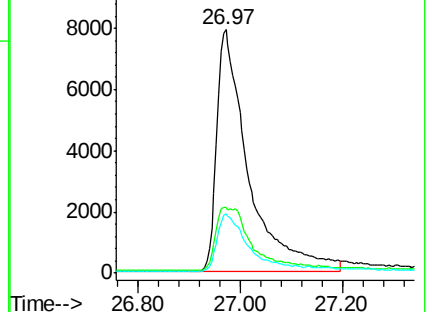
277 23.5 19.9 29.9

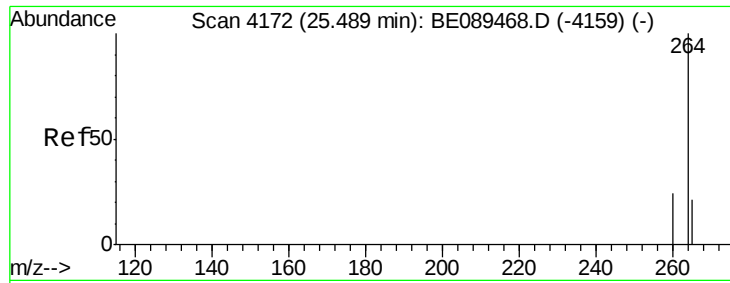


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

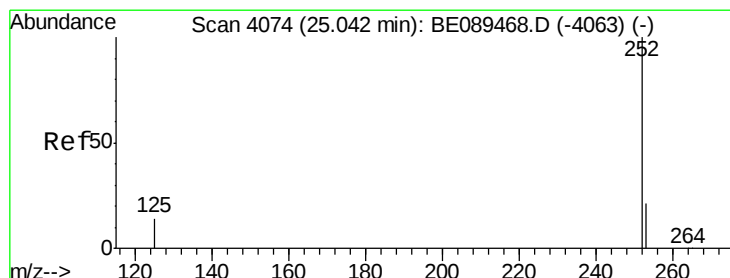
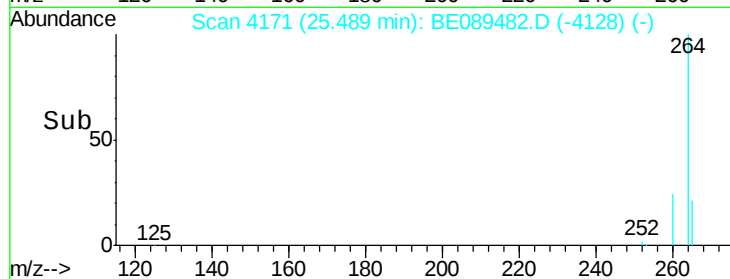
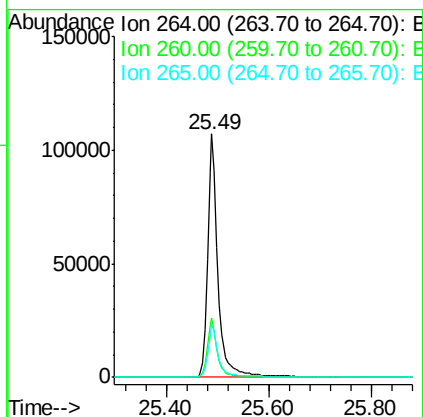
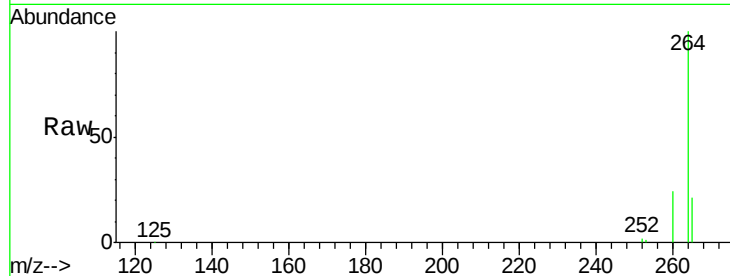




#27
Perylene-d12
Concen: 5.00 ng
RT: 25.49 min Scan# 4171
Delta R.T. 0.00 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

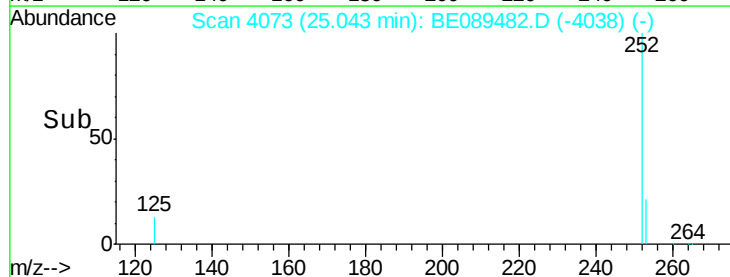
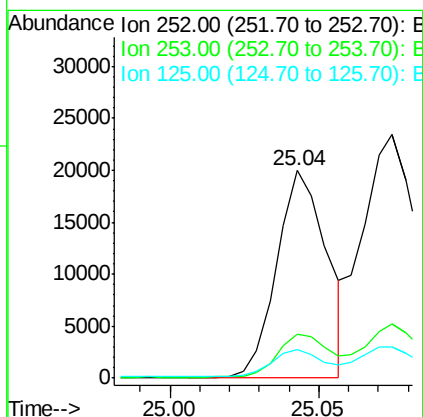
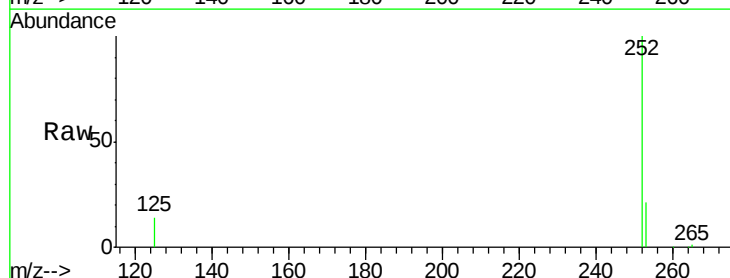
Instrument :
BNA_E
LabSampleId :
SSTDCCC001

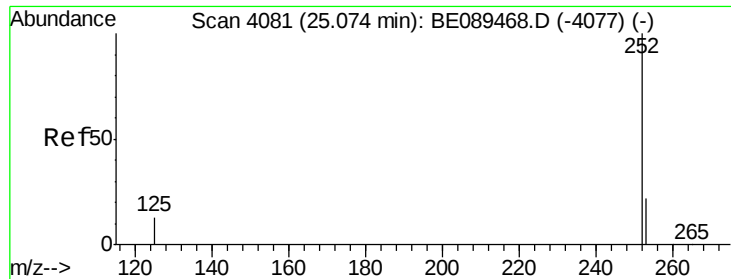
Tgt Ion: 264 Resp: 149532
Ion Ratio Lower Upper
264 100
260 24.2 19.1 28.7
265 21.5 17.0 25.6



#28
Benzo(b)fluoranthene
Concen: 0.84 ng
RT: 25.04 min Scan# 4073
Delta R.T. 0.00 min
Lab File: BE089482.D
Acq: 4 Feb 2015 3:25

Tgt Ion: 252 Resp: 23134
Ion Ratio Lower Upper
252 100
253 21.5 17.4 26.2
125 13.5 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 1.11 ng

RT: 25.07 min Scan# 4080

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

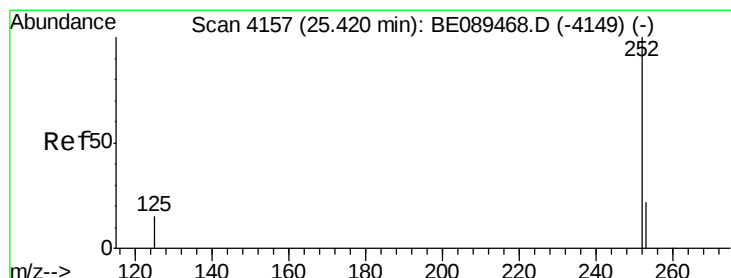
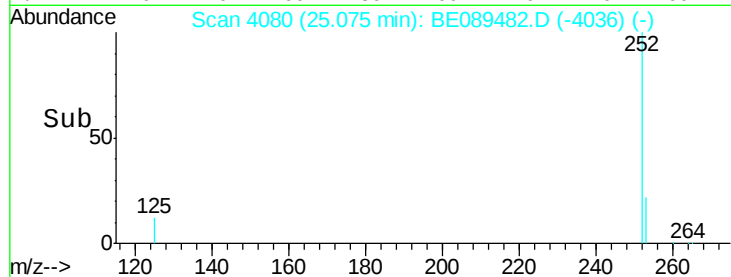
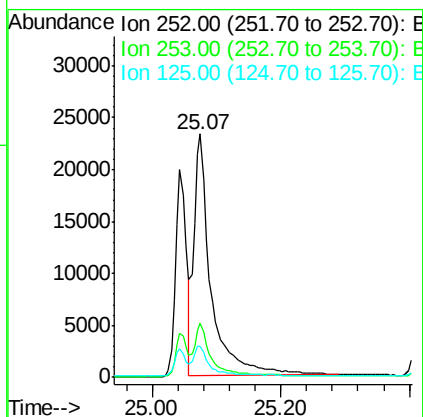
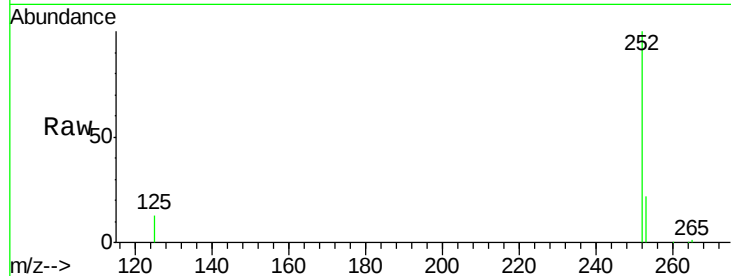
Tgt Ion:252 Resp: 42898

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

125 12.6 10.6 15.8



#30

Benzo(a)pyrene

Concen: 0.91 ng

RT: 25.42 min Scan# 4156

Delta R.T. 0.00 min

Lab File: BE089482.D

Acq: 4 Feb 2015 3:25

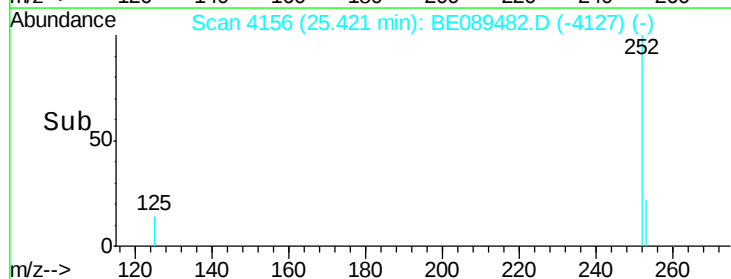
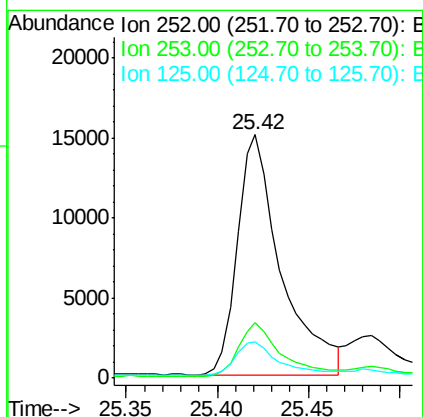
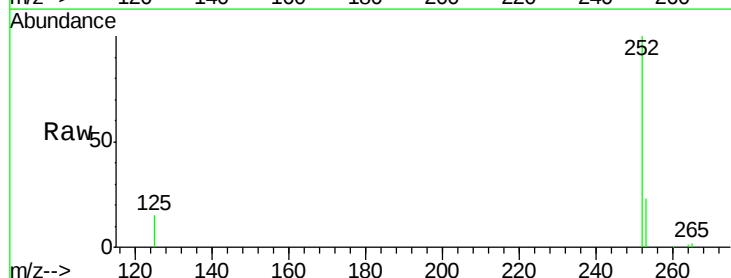
Tgt Ion:252 Resp: 25188

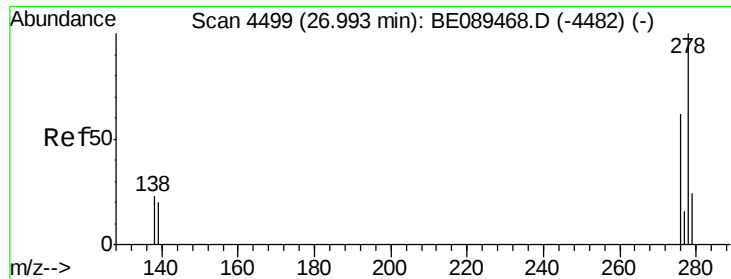
Ion Ratio Lower Upper

252 100

253 22.5 18.2 27.2

125 14.7 12.2 18.4





#31

Dibenzo(a,h)anthracene

Concen: 0.88 ng

RT: 27.00 min Scan# 4499

Delta R.T. 0.01 min

Lab File: BE089482.D

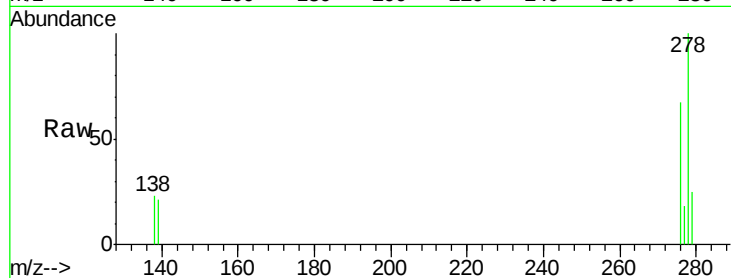
Acq: 4 Feb 2015 3:25

Instrument :

BNA_E

LabSampleId :

SSTDCCC001



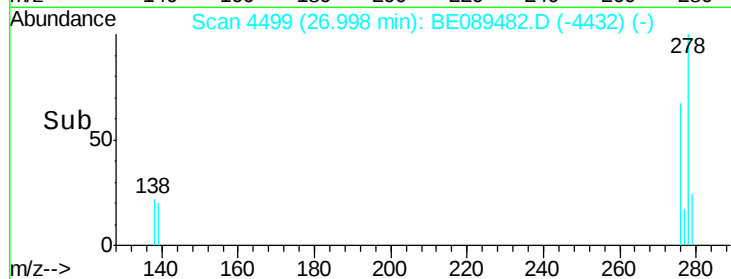
Tgt Ion: 278 Resp: 26415

Ion Ratio Lower Upper

278 100

139 21.3 16.8 25.2

279 24.7 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

