

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089552.D
 Acq On : 7 Feb 2015 8:43
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Quant Time: Feb 09 00:15:04 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	54158	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	208549	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	95198	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	155151	5.00	ng	0.00
16) Chrysene-d12	23.72	240	175476	5.00	ng	0.00
22) Perylene-d12	25.41	264	194008	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.69	82	125605	9.07	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	191344	7.53	ng	0.00
18) Terphenyl-d14	22.36	244	204030	8.81	ng	0.00

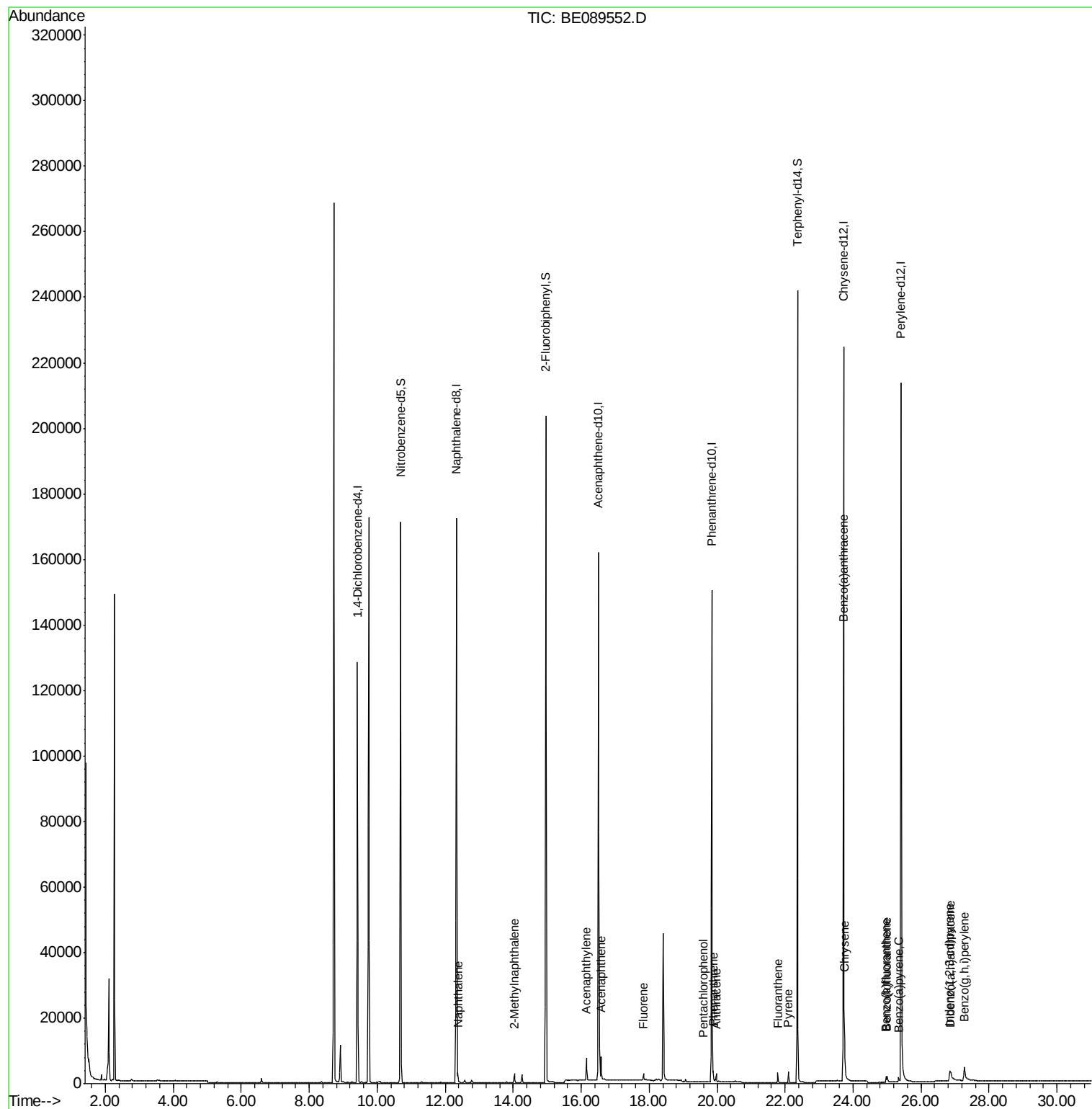
Target Compounds						Qvalue
4) Naphthalene	12.37	128	3519	0.07	ng	96
5) 2-Methylnaphthalene	14.03	142	1756	0.07	ng	93
8) Acenaphthylene	16.16	152	8928	0.06	ng	98
9) Acenaphthene	16.59	154	1554	0.06	ng	92
10) Fluorene	17.84	166	1735	0.06	ng	95
12) Pentachlorophenol	19.58	266	17	0.55	ng	88
13) Phenanthrene	19.89	178	2770	0.07	ng	100
14) Anthracene	19.98	178	2081	0.06	ng	100
15) Fluoranthene	21.79	202	2203	0.06	ng	98
17) Pyrene	22.10	202	2426	0.06	ng	100
19) Benzo(a)anthracene	23.71	228	10972	0.07	ng	95
20) Chrysene	23.75	228	12340	0.08	ng	98
21) Indeno(1,2,3-cd)pyrene	26.85	276	8735	0.04	ng	98
23) Benzo(b)fluoranthene	24.97	252	1576	0.04	ng	# 91
24) Benzo(k)fluoranthene	25.00	252	2455	0.05	ng	# 94
25) Benzo(a)pyrene	25.34	252	1727	0.05	ng	# 92
26) Dibenzo(a,h)anthracene	26.88	278	1632	0.04	ng	# 83
27) Benzo(g,h,i)perylene	27.27	276	9674	0.05	ng	# 87

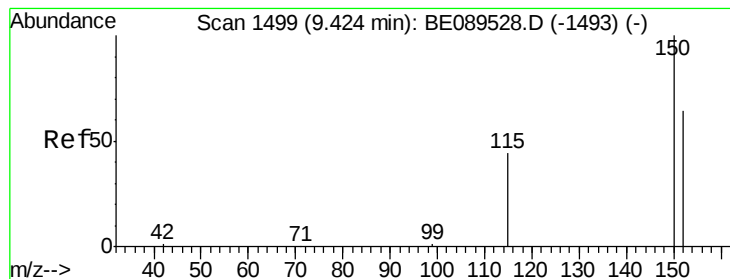
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

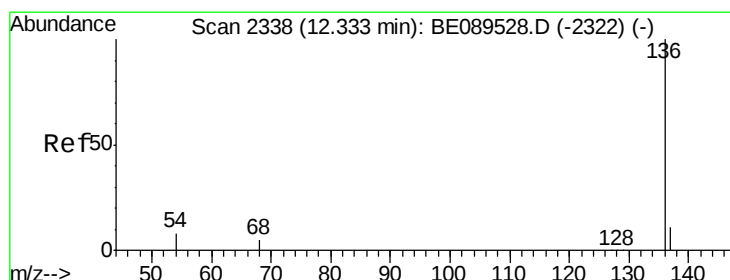
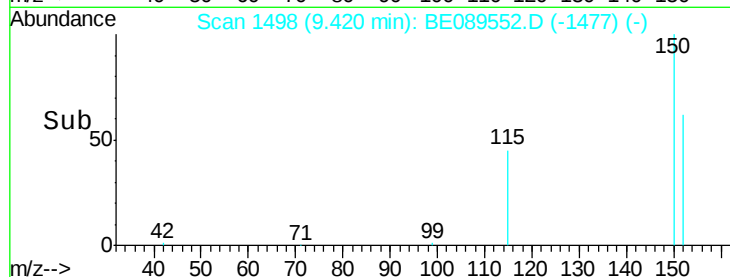
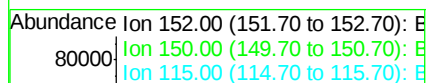
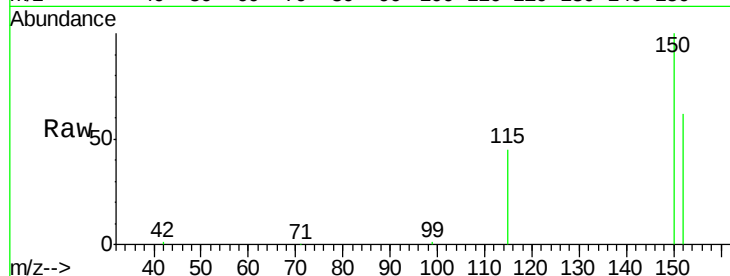
Tgt Ion:152 Resp: 54158

Ion Ratio Lower Upper

152 100

150 160.2 125.7 188.5

115 71.7 55.6 83.4



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

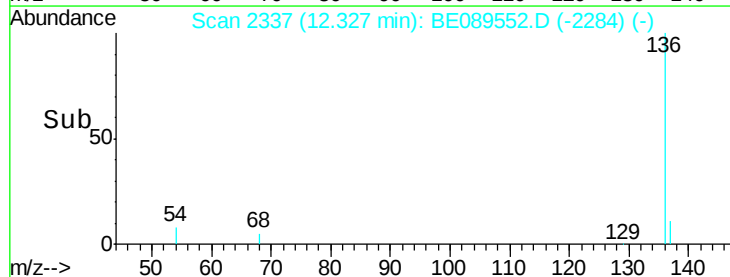
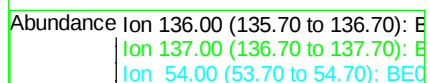
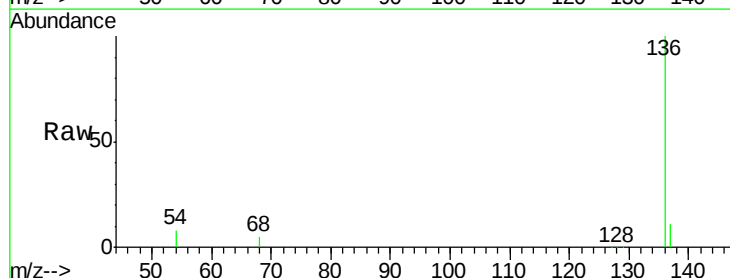
Tgt Ion:136 Resp: 208549

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.8 6.1 9.1





#3

Nitrobenzene-d5

Concen: 9.07 ng

RT: 10.69 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDICC0.1

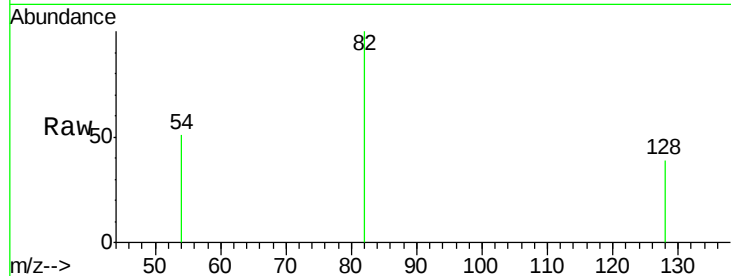
Tgt Ion: 82 Resp: 125605

Ion Ratio Lower Upper

82 100

128 38.9 30.2 45.4

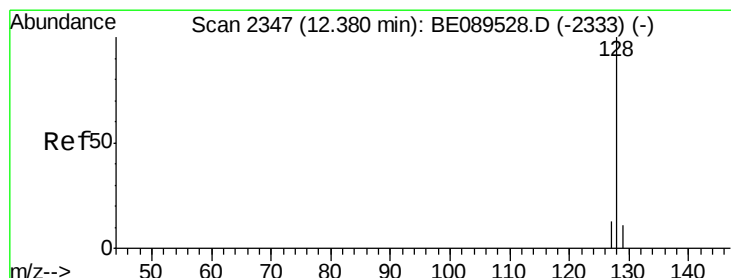
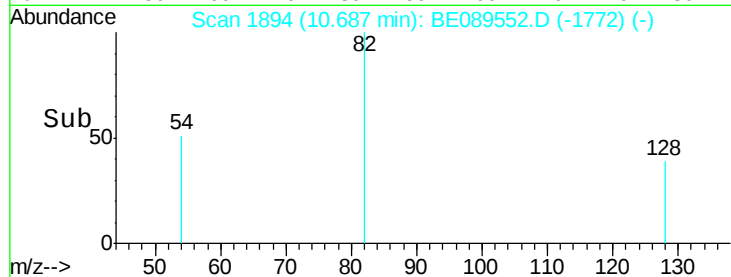
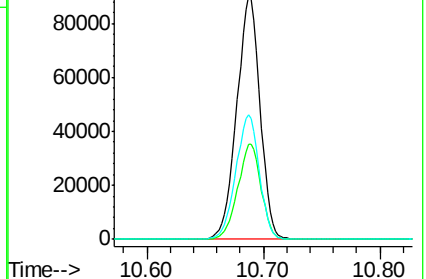
54 51.4 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.07 ng

RT: 12.37 min Scan# 2346

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

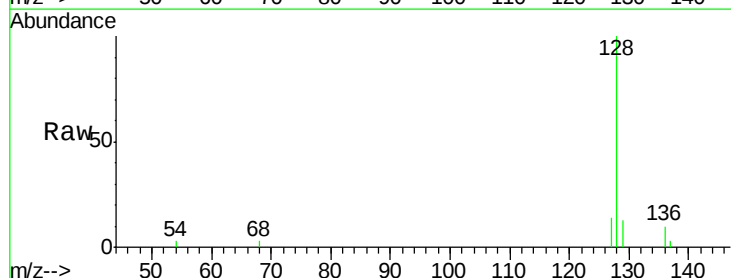
Tgt Ion: 128 Resp: 3519

Ion Ratio Lower Upper

128 100

129 13.3 9.1 13.7

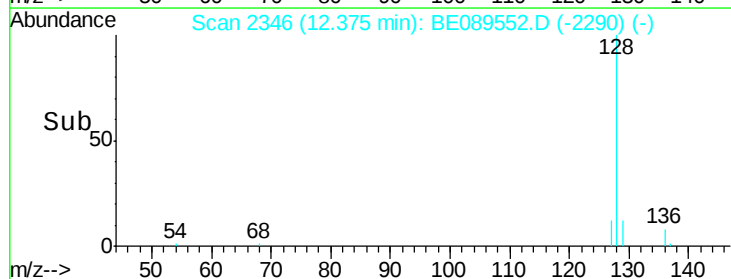
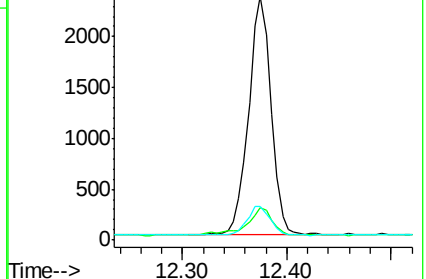
127 14.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.03 min Scan# 2678

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

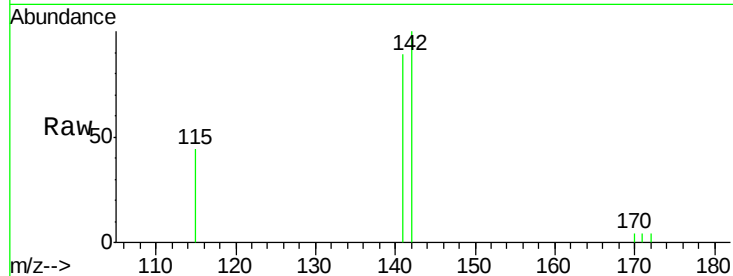
Tgt Ion:142 Resp: 1756

Ion Ratio Lower Upper

142 100

141 88.5 67.0 100.6

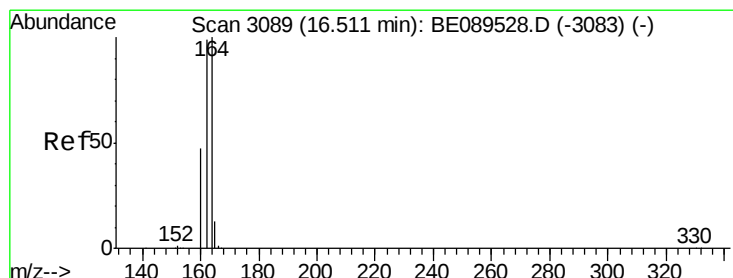
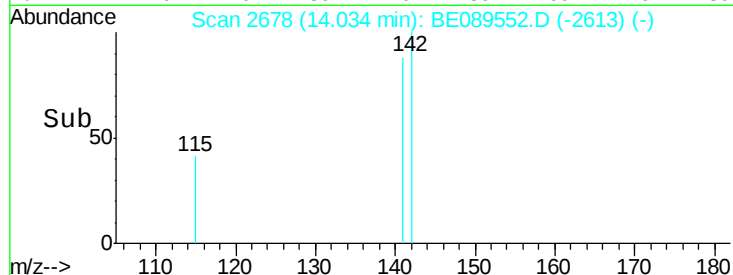
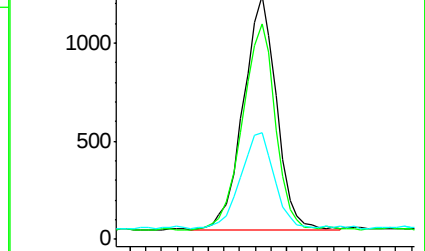
115 44.0 30.6 45.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

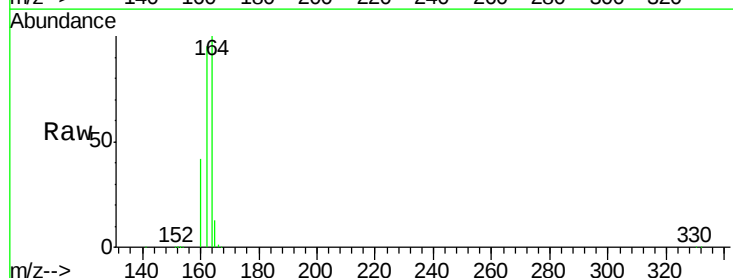
Tgt Ion:164 Resp: 95198

Ion Ratio Lower Upper

164 100

162 94.7 79.5 119.3

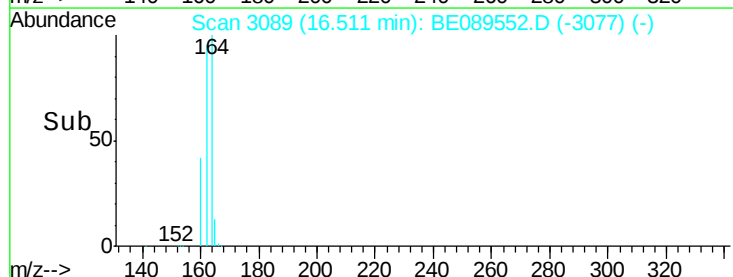
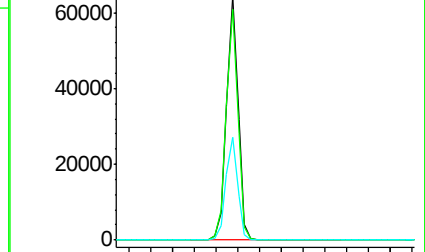
160 42.1 37.6 56.4



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





#7

2-Fluorobiphenyl

Concen: 7.53 ng

RT: 14.96 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

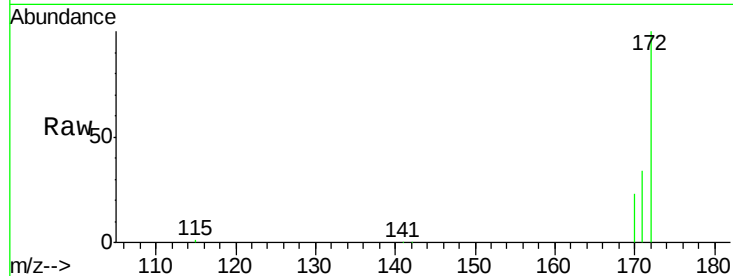
Tgt Ion:172 Resp: 191344

Ion Ratio Lower Upper

172 100

171 34.1 27.7 41.5

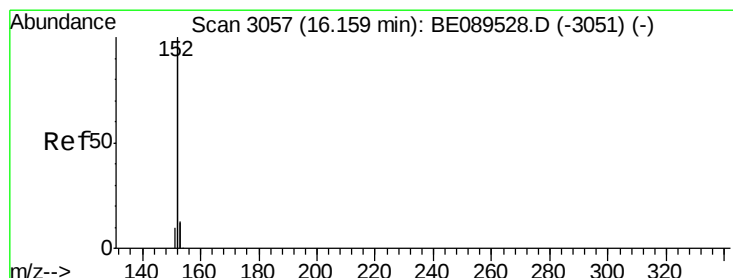
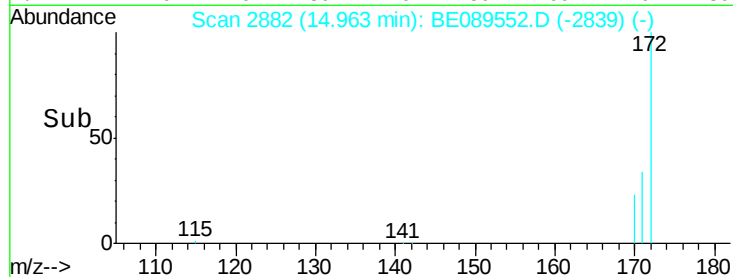
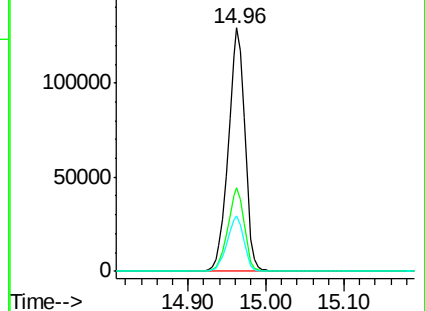
170 22.7 18.3 27.5



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.06 ng

RT: 16.16 min Scan# 3057

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

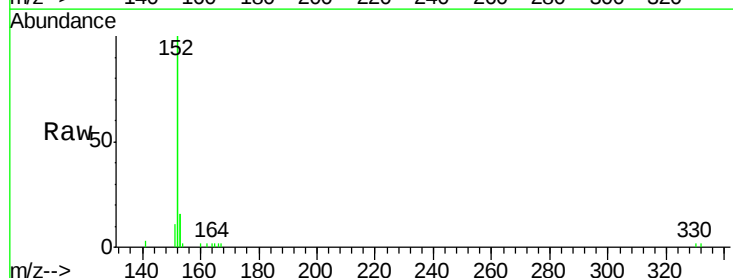
Tgt Ion:152 Resp: 8928

Ion Ratio Lower Upper

152 100

151 5.2 4.0 6.0

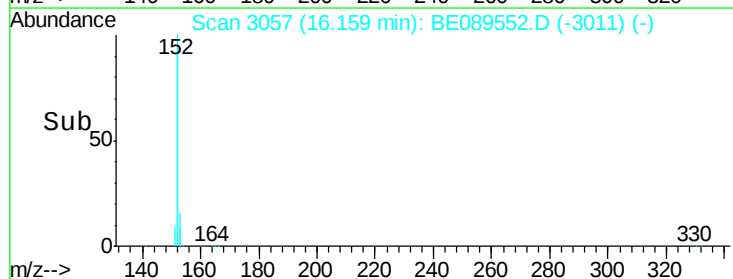
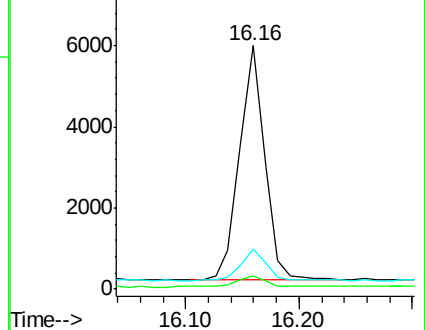
153 14.3 10.6 15.8

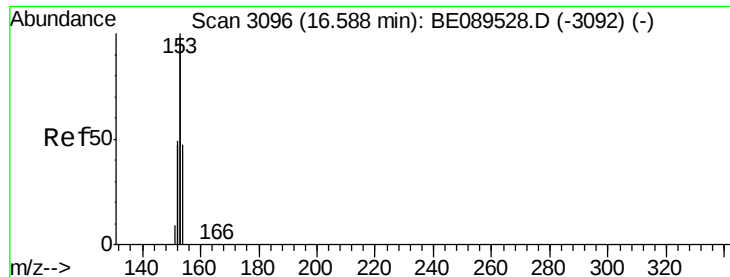


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.59 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

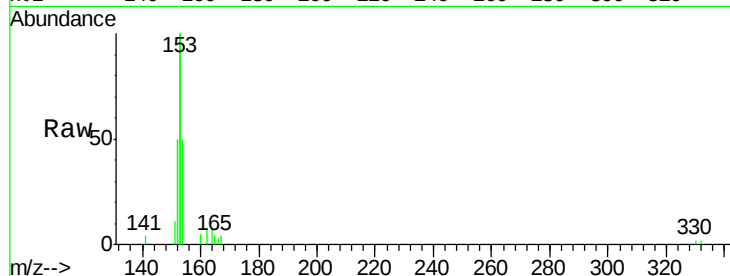
Tgt Ion:154 Resp: 1554

Ion Ratio Lower Upper

154 100

153 432.0 340.8 511.2

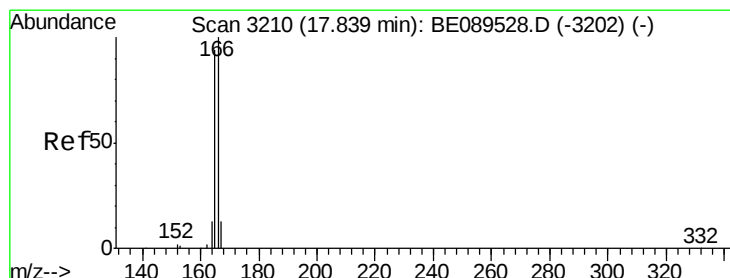
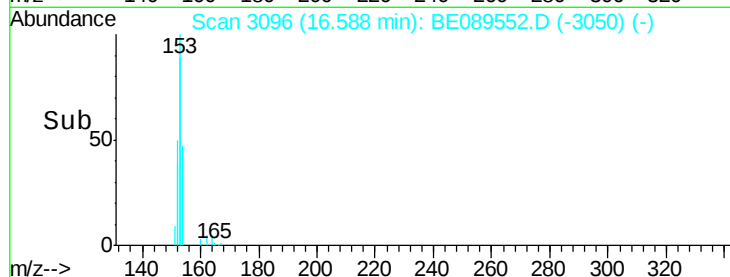
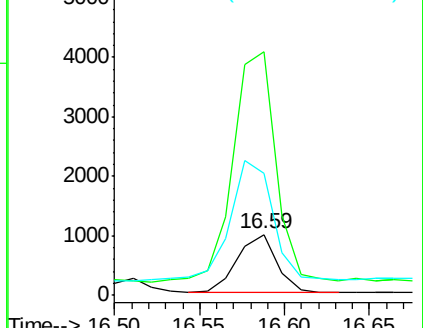
152 237.7 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.06 ng

RT: 17.84 min Scan# 3210

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

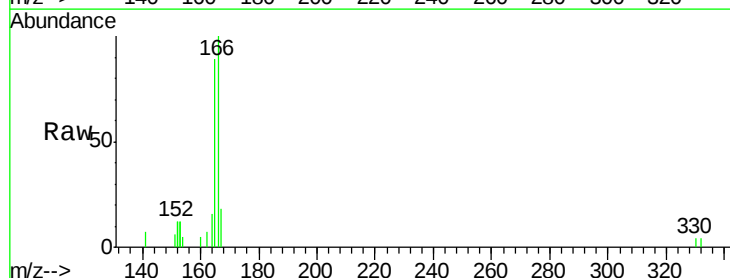
Tgt Ion:166 Resp: 1735

Ion Ratio Lower Upper

166 100

165 89.2 75.5 113.3

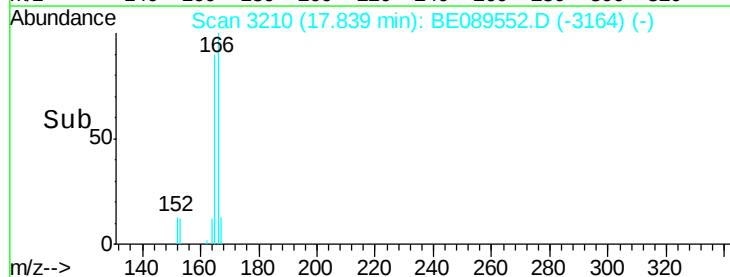
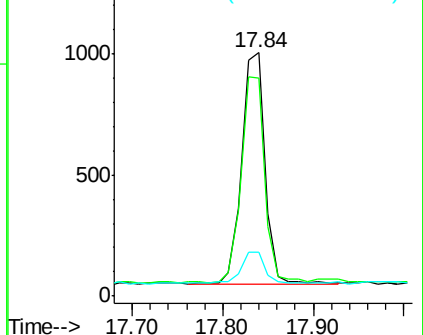
167 13.8 10.9 16.3

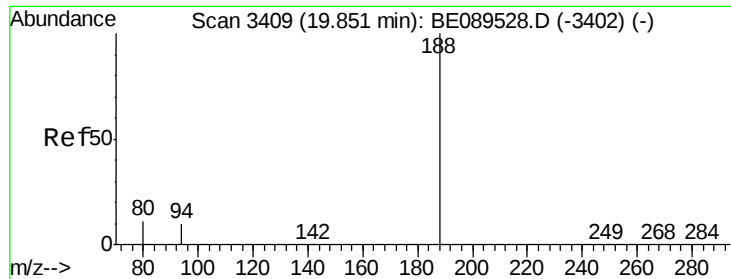


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.84 min Scan# 3408

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

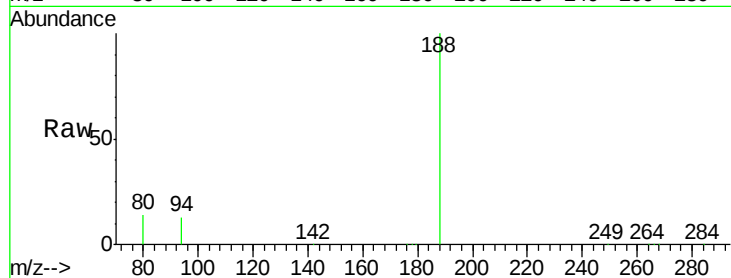
Tgt Ion:188 Resp: 155151

Ion Ratio Lower Upper

188 100

94 13.2 8.4 12.6#

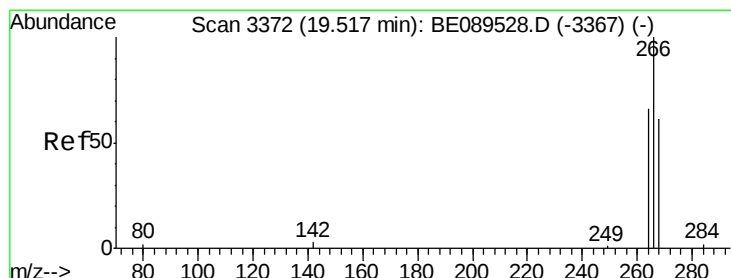
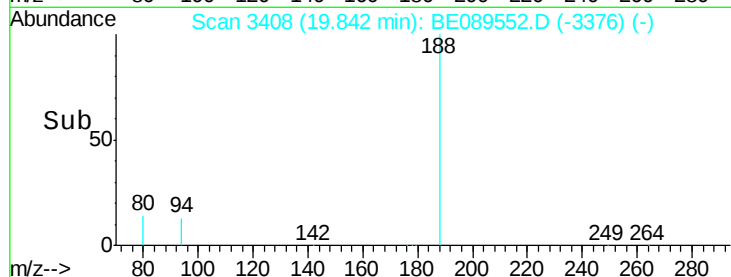
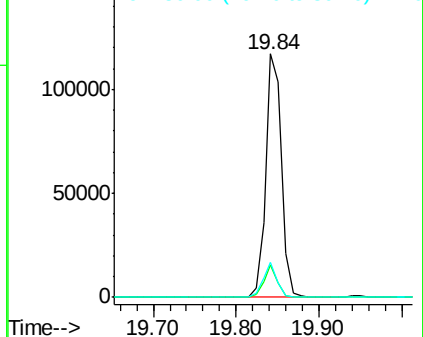
80 14.5 8.6 12.8#



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



#12

Pentachlorophenol

Concen: 0.55 ng

RT: 19.58 min Scan# 3379

Delta R.T. 0.06 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

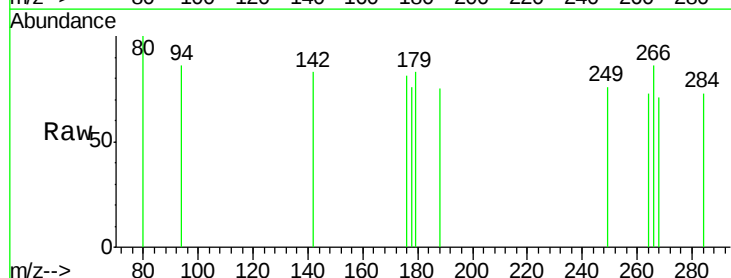
Tgt Ion:266 Resp: 17

Ion Ratio Lower Upper

266 100

268 83.3 57.9 86.9

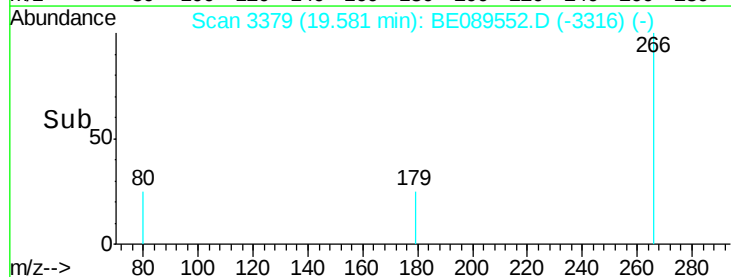
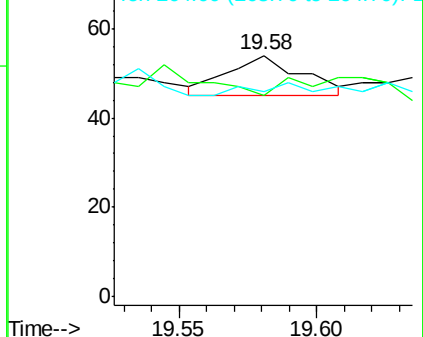
264 85.2 60.2 90.4

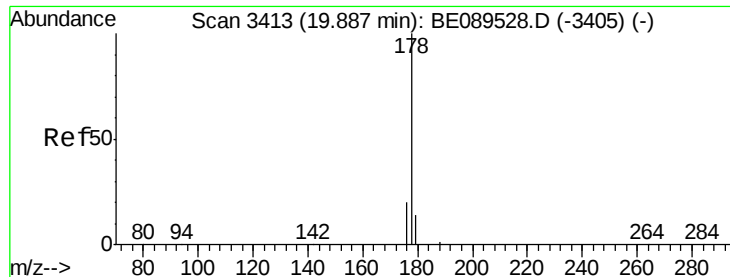


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.89 min Scan# 3413

Delta R.T. 0.00 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDICC0.1

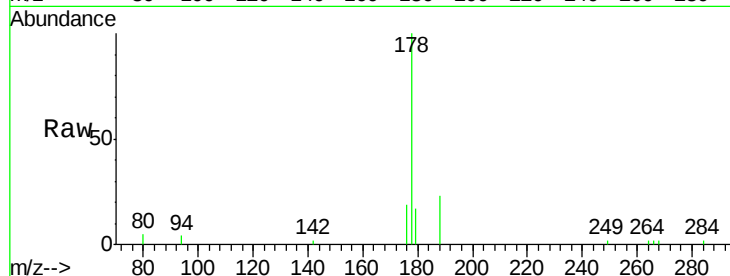
Tgt Ion:178 Resp: 2770

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

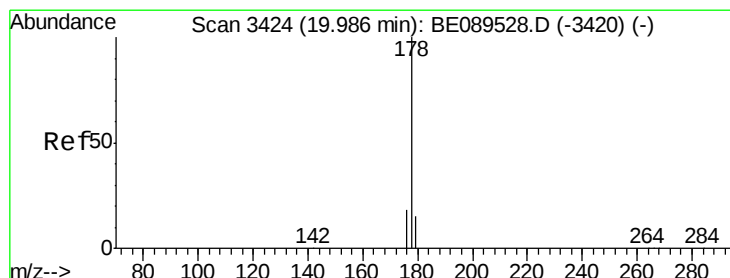
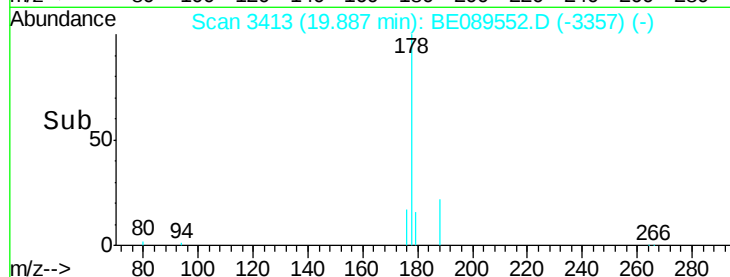
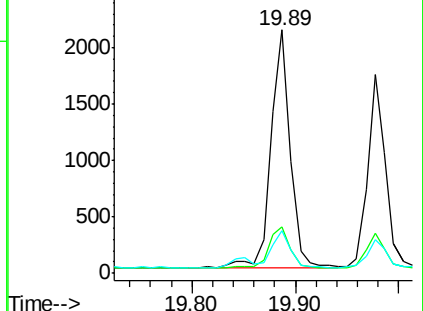
179 15.2 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.06 ng

RT: 19.98 min Scan# 3423

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

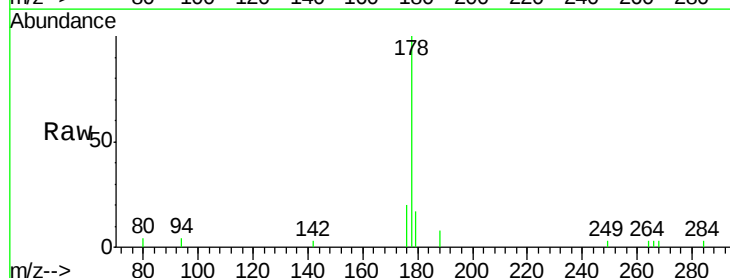
Tgt Ion:178 Resp: 2081

Ion Ratio Lower Upper

178 100

176 17.9 14.5 21.7

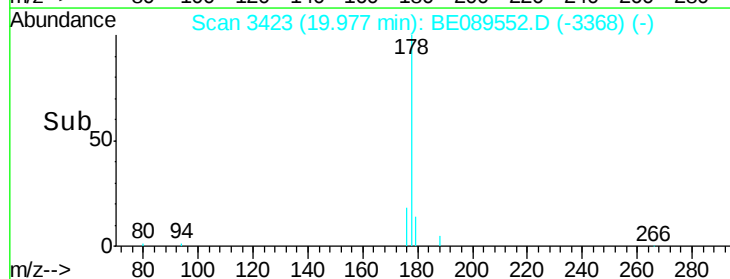
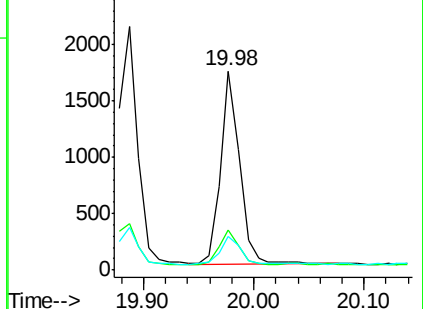
179 15.2 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

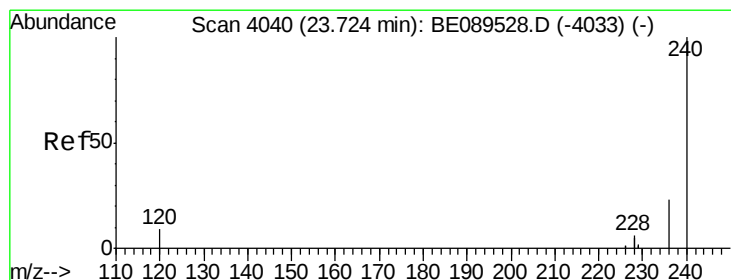
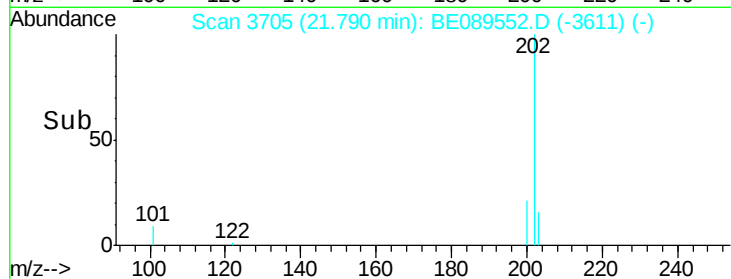
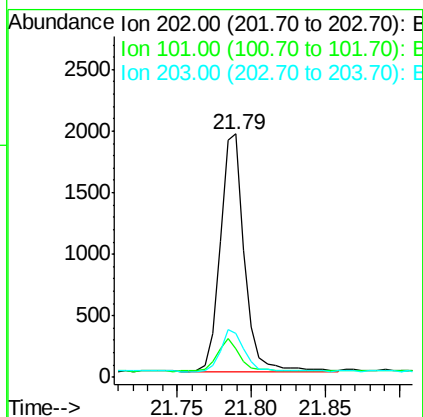
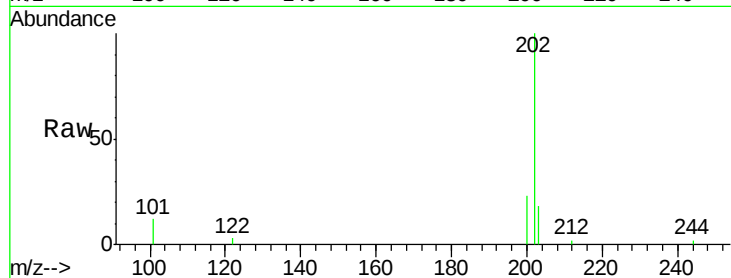




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.79 min Scan# 3705
 Delta R.T. -0.00 min
 Lab File: BE089552.D
 Acq: 7 Feb 2015 8:43

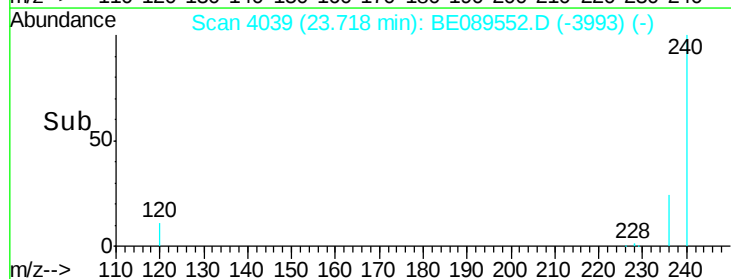
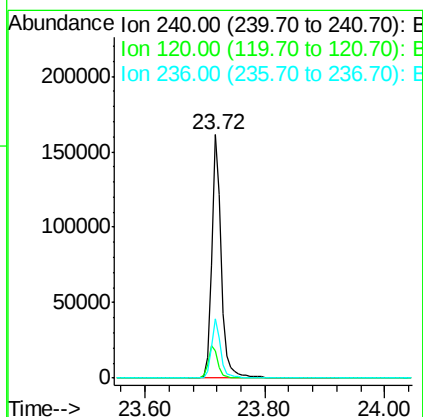
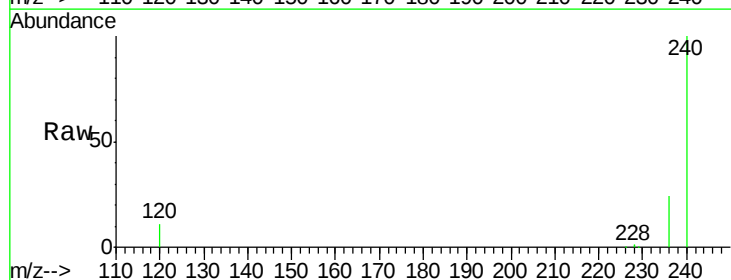
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

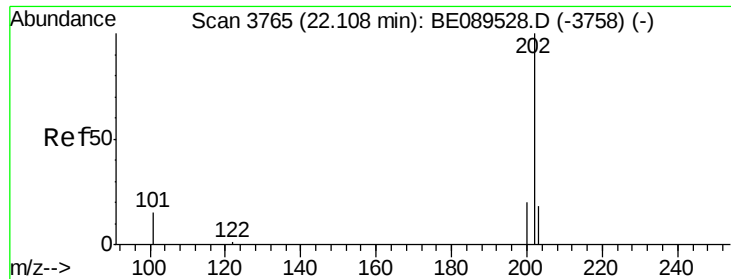
Tgt Ion: 202 Resp: 2203
 Ion Ratio Lower Upper
 202 100
 101 12.7 11.6 17.4
 203 16.9 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 4039
 Delta R.T. -0.01 min
 Lab File: BE089552.D
 Acq: 7 Feb 2015 8:43

Tgt Ion: 240 Resp: 175476
 Ion Ratio Lower Upper
 240 100
 120 11.2 7.2 10.8#
 236 24.4 18.5 27.7

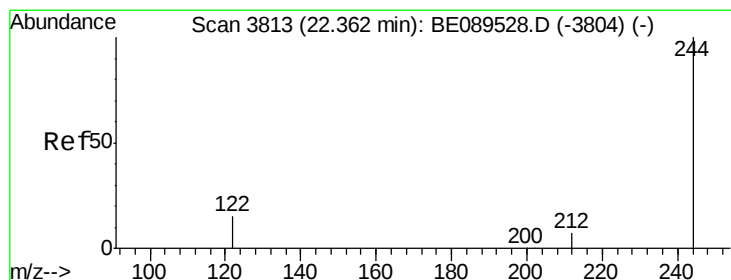
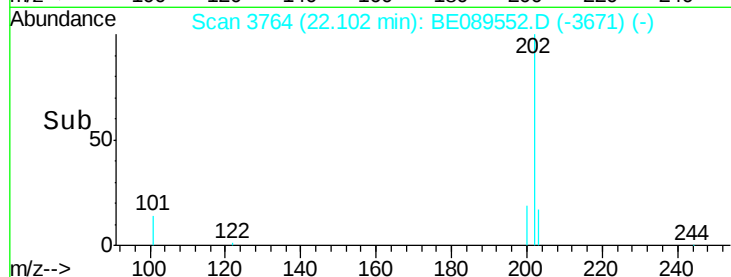
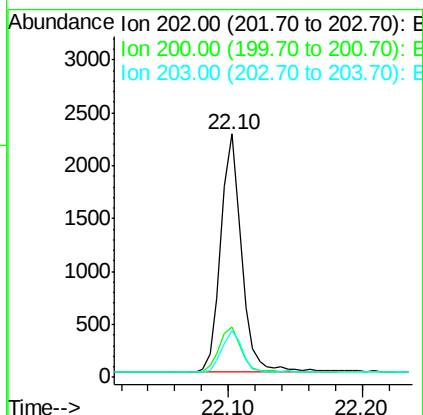
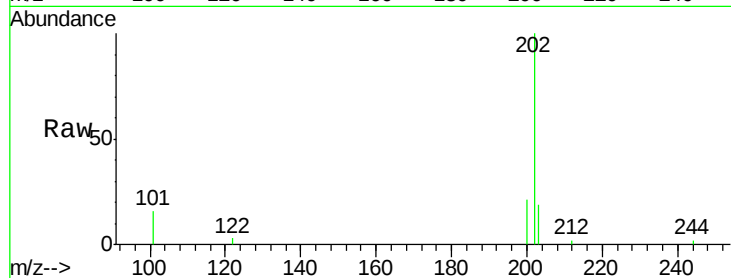




#17
 Pyrene
 Concen: 0.06 ng
 RT: 22.10 min Scan# 3764
 Delta R.T. -0.01 min
 Lab File: BE089552.D
 Acq: 7 Feb 2015 8:43

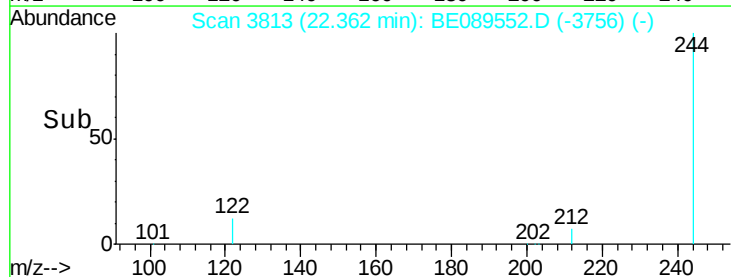
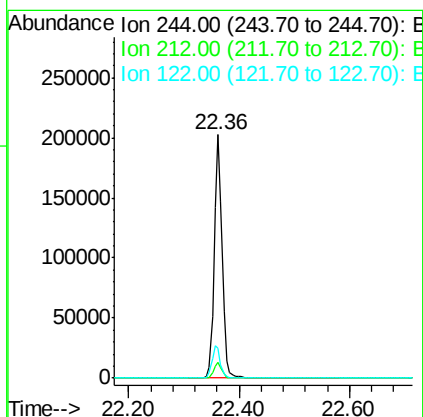
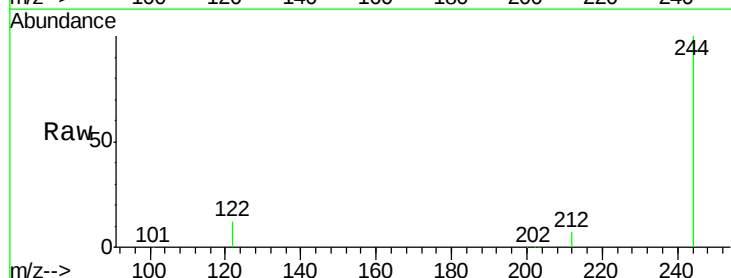
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 2426
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 17.2 13.5 20.3



#18
 Terphenyl-d14
 Concen: 8.81 ng
 RT: 22.36 min Scan# 3813
 Delta R.T. -0.00 min
 Lab File: BE089552.D
 Acq: 7 Feb 2015 8:43

Tgt Ion: 244 Resp: 204030
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.8
 122 12.1 12.6 19.0#





#19

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.71 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

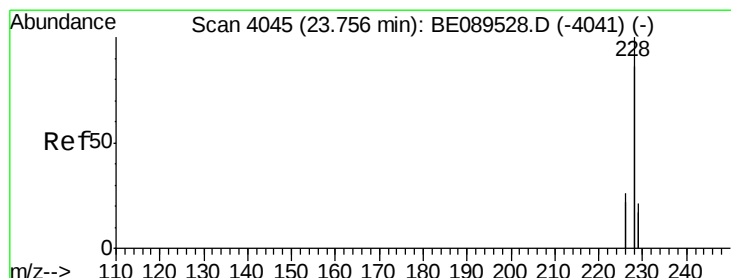
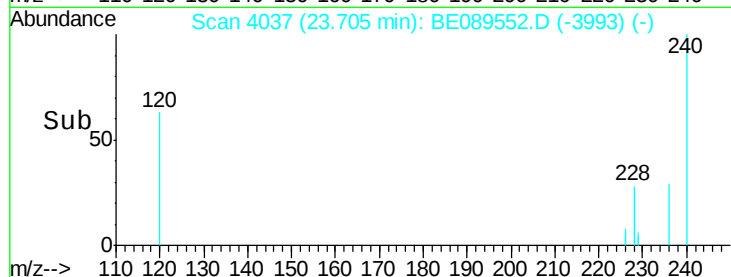
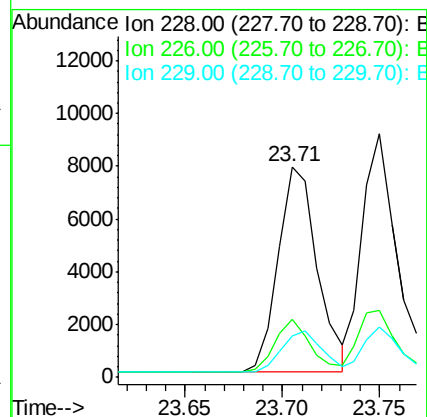
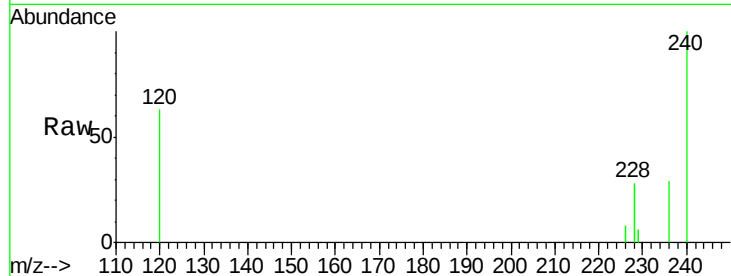
Tgt Ion:228 Resp: 10972

Ion Ratio Lower Upper

228 100

226 27.5 19.0 28.4

229 19.7 16.8 25.2



#20

Chrysene

Concen: 0.08 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

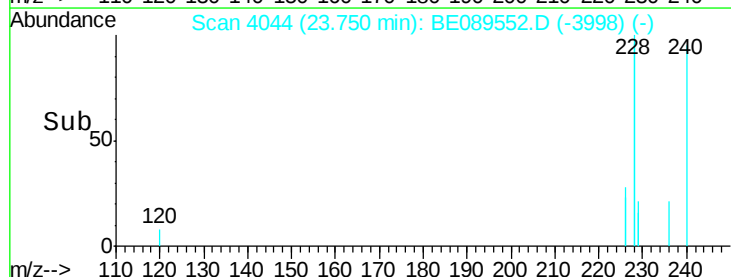
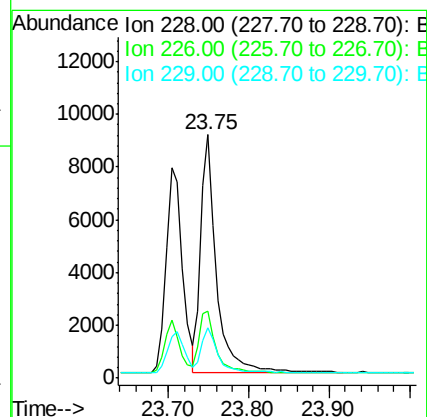
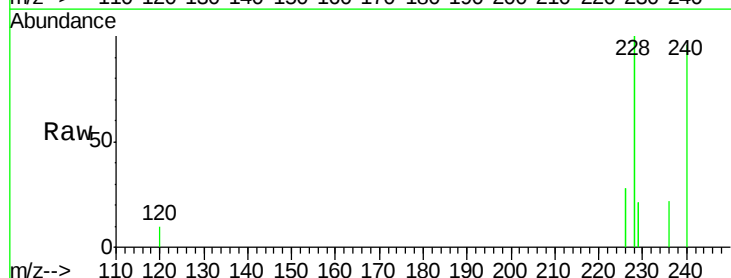
Tgt Ion:228 Resp: 12340

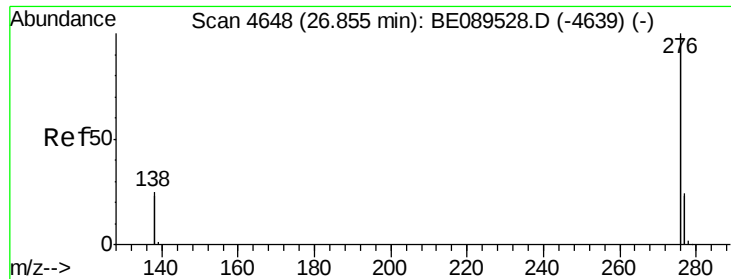
Ion Ratio Lower Upper

228 100

226 27.6 21.0 31.4

229 20.7 16.7 25.1





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng

RT: 26.85 min Scan# 4647

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

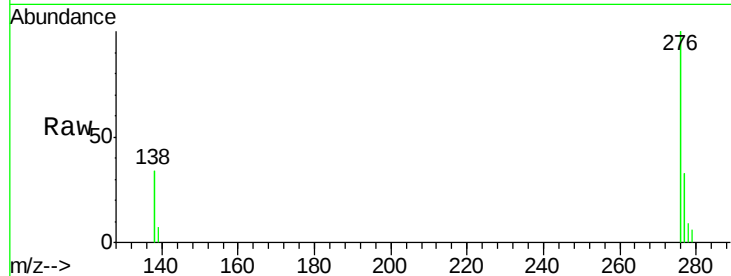
Tgt Ion:276 Resp: 8735

Ion Ratio Lower Upper

276 100

138 27.9 23.0 34.4

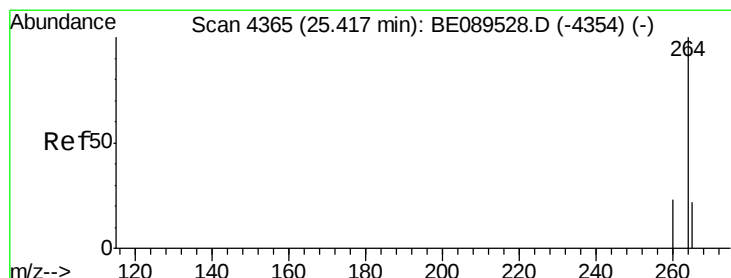
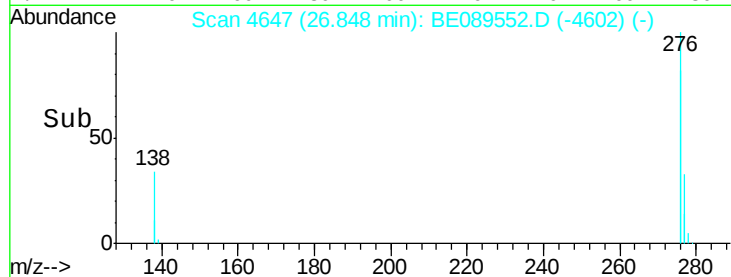
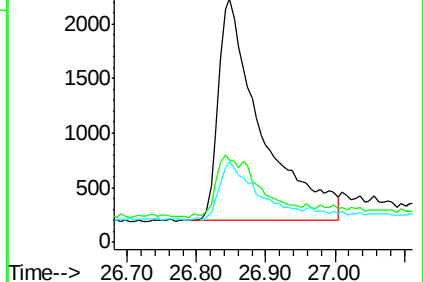
277 23.8 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.41 min Scan# 4364

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

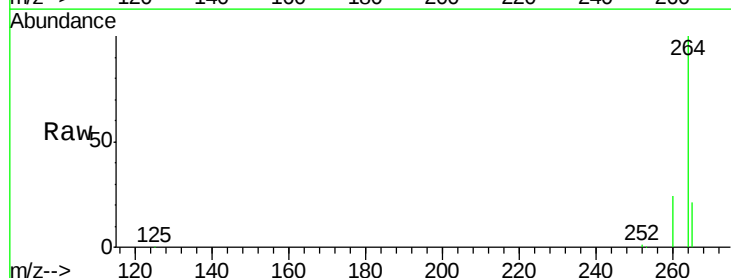
Tgt Ion:264 Resp: 194008

Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

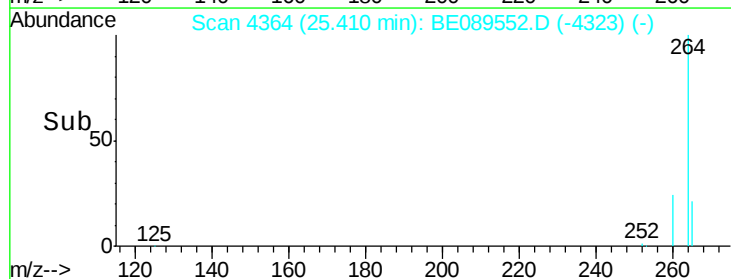
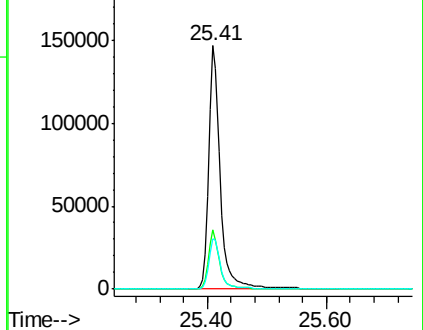
265 20.8 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.04 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

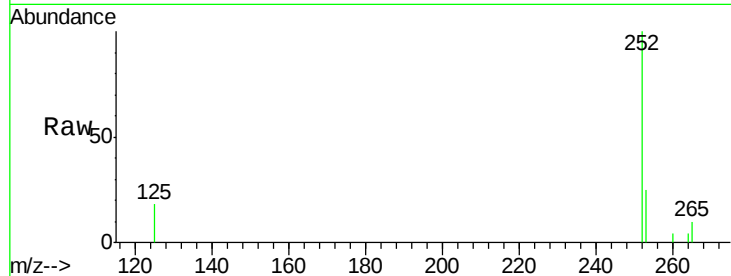
Tgt Ion:252 Resp: 1576

Ion Ratio Lower Upper

252 100

253 25.5 17.4 26.0

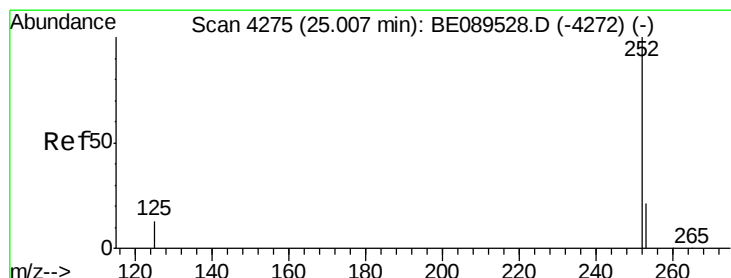
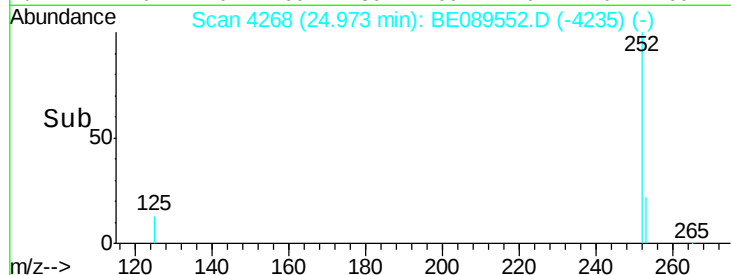
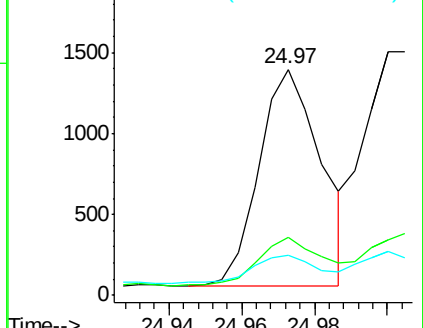
125 17.8 10.4 15.6#



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



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 25.00 min Scan# 4274

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

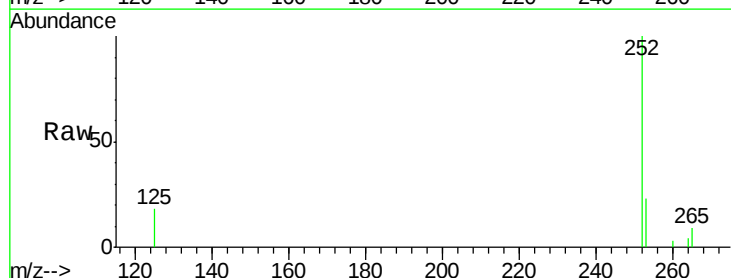
Tgt Ion:252 Resp: 2455

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

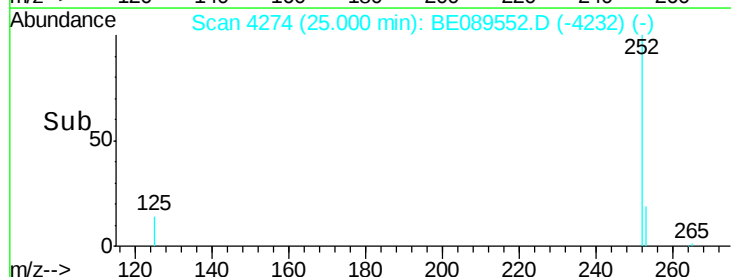
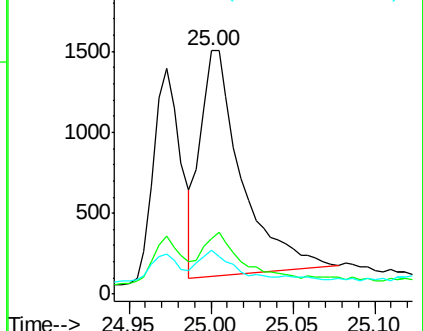
125 18.1 10.6 15.8#



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





#25

Benzo(a)pyrene

Concen: 0.05 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1

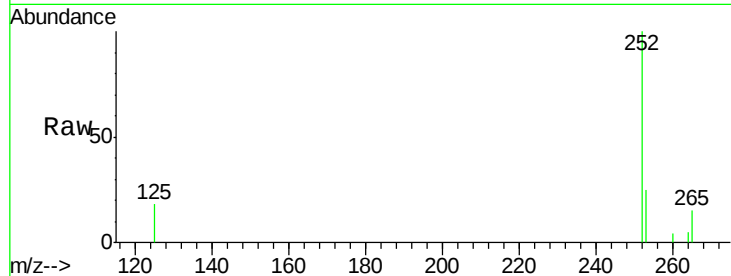
Tgt Ion: 252 Resp: 1727

Ion Ratio Lower Upper

252 100

253 25.4 17.8 26.6

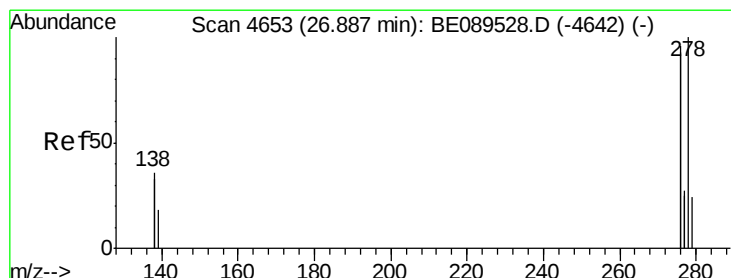
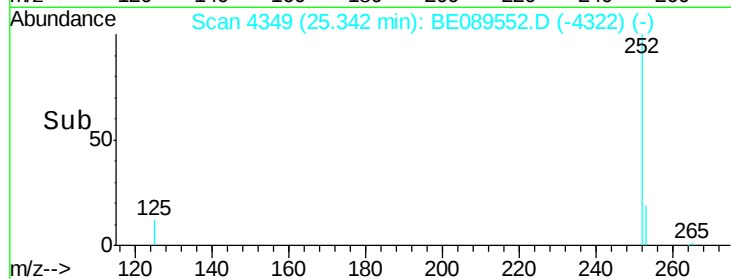
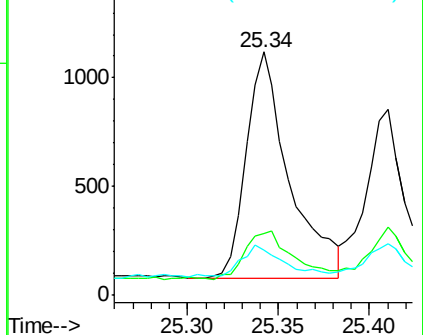
125 18.3 11.4 17.2#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.88 min Scan# 4652

Delta R.T. -0.01 min

Lab File: BE089552.D

Acq: 7 Feb 2015 8:43

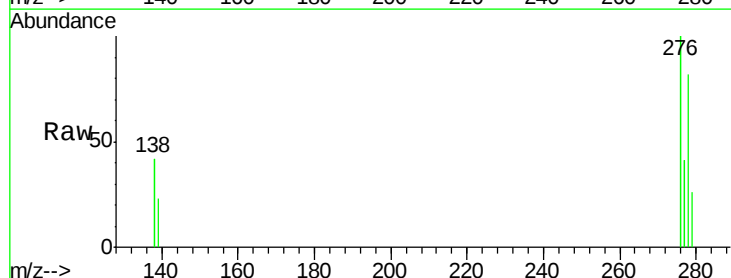
Tgt Ion: 278 Resp: 1632

Ion Ratio Lower Upper

278 100

139 28.5 15.7 23.5#

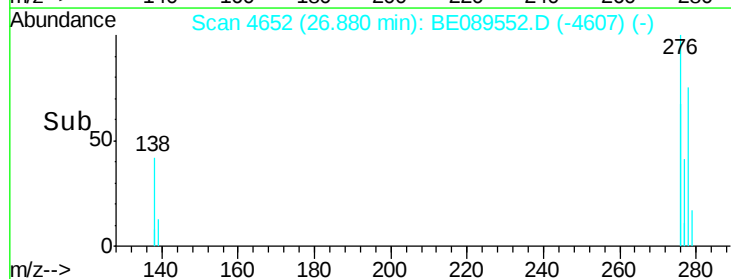
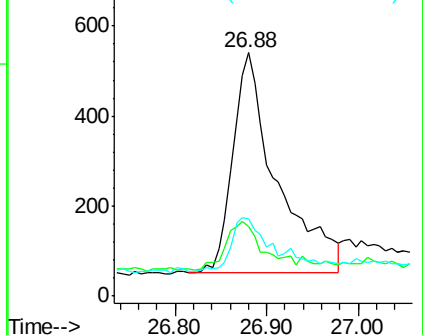
279 31.8 19.5 29.3#



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





#27

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

Lab File: BE089552.D

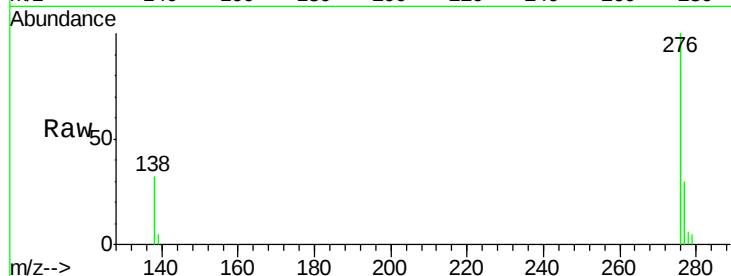
Acq: 7 Feb 2015 8:43

Instrument :

BNA_E

LabSampleId :

SSTDIC0.1



Tgt Ion: 276 Resp: 9674

Ion Ratio Lower Upper

276 100

277 30.1 18.6 27.8#

138 32.1 20.9 31.3#

