

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089619.D
 Acq On : 18 Feb 2015 15:17
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Quant Time: Feb 19 04:34:28 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	41705	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	167350	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	82365	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	162633	5.00	ng	0.00
19) Chrysene-d12	23.66	240	171890	5.00	ng	0.00
25) Perylene-d12	25.34	264	148425	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	6437	0.88	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	22411	1.02	ng	0.00
21) Terphenyl-d14	22.30	244	24395	0.99	ng	0.00

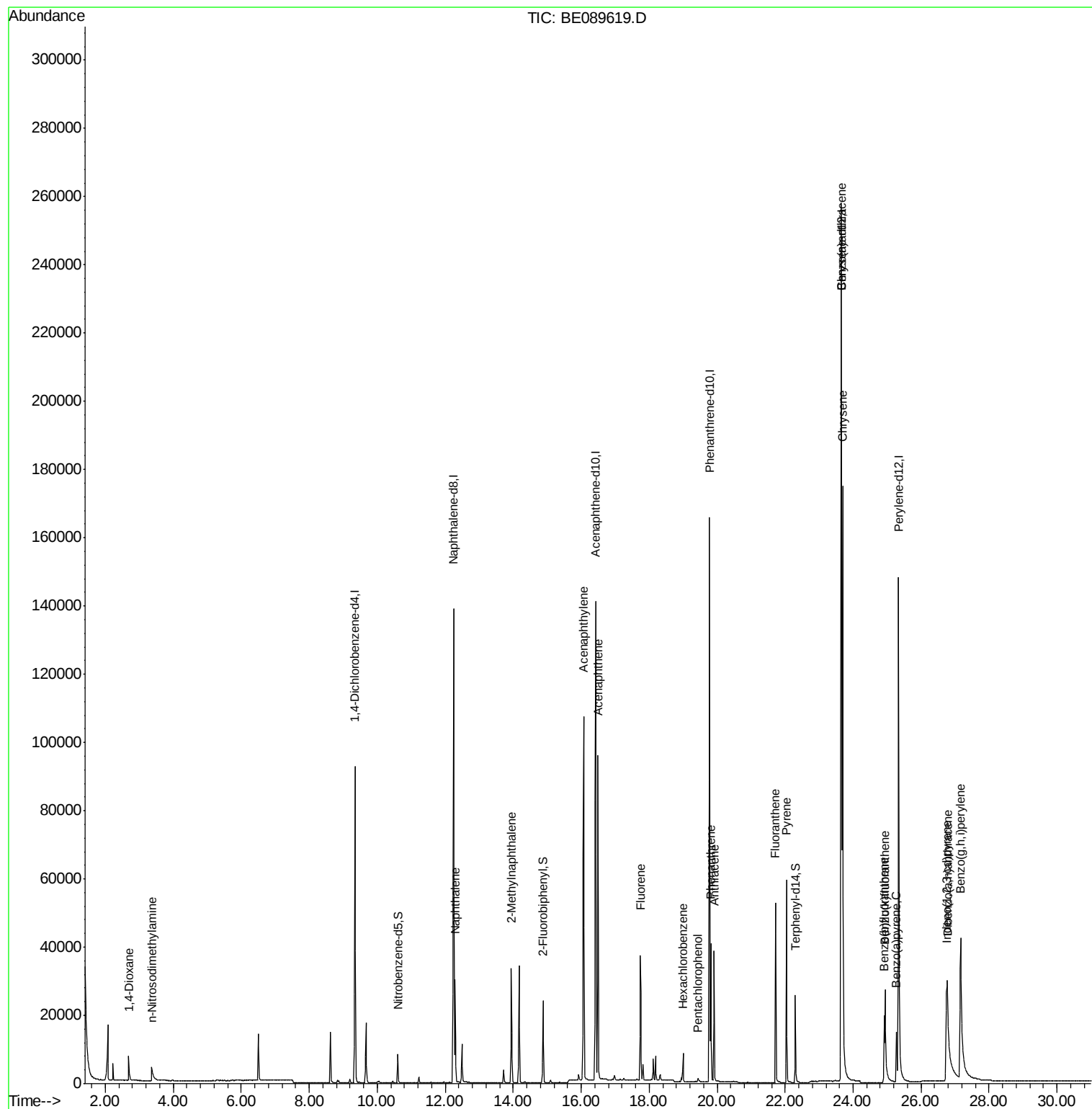
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.69	88	4969	0.98	ng	98
3) n-Nitrosodimethylamine	3.36	42	4706	0.97	ng	100
6) Naphthalene	12.29	128	37736	1.00	ng	99
7) 2-Methylnaphthalene	13.95	142	23010	1.00	ng	99
10) Acenaphthylene	16.07	152	134972	1.01	ng	100
11) Acenaphthene	16.50	154	21638	1.01	ng	99
12) Fluorene	17.74	166	25074	1.01	ng	99
14) Hexachlorobenzene	19.00	284	7125	1.02	ng	98
15) Pentachlorophenol	19.44	266	977	0.99	ng	99
16) Phenanthrene	19.82	178	40594	1.02	ng	100
17) Anthracene	19.91	178	33964	1.00	ng	100
18) Fluoranthene	21.72	202	38423	1.01	ng	99
20) Pyrene	22.04	202	42694	1.01	ng	100
22) Benzo(a)anthracene	23.65	228	143911	0.95	ng	100
23) Chrysene	23.69	228	171378	1.01	ng	99
24) Indeno(1,2,3-cd)pyrene	26.75	276	103630	0.83	ng	99
26) Benzo(b)fluoranthene	24.91	252	19299	0.79	ng	100
27) Benzo(k)fluoranthene	24.94	252	44449	1.05	ng	99
28) Benzo(a)pyrene	25.27	252	20287	0.83	ng	99
29) Dibenzo(a,h)anthracene	26.77	278	19652	0.82	ng	99
30) Benzo(g,h,i)perylene	27.17	276	103547	0.89	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: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

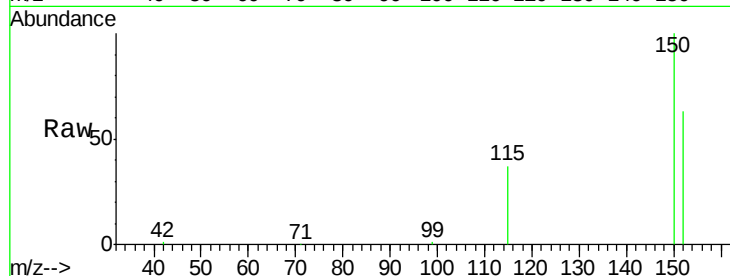
Tgt Ion:152 Resp: 41705

Ion Ratio Lower Upper

152 100

150 159.4 122.4 183.6

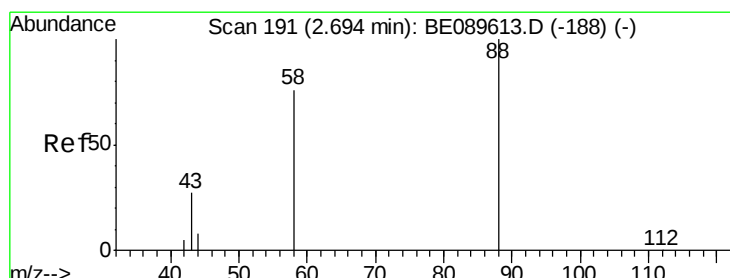
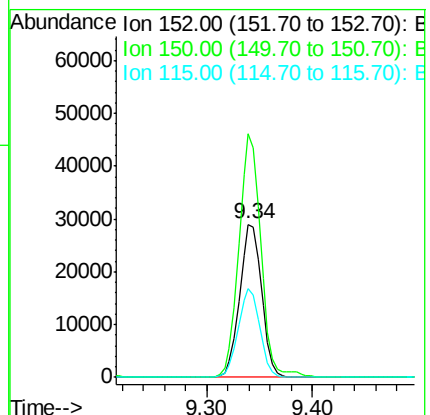
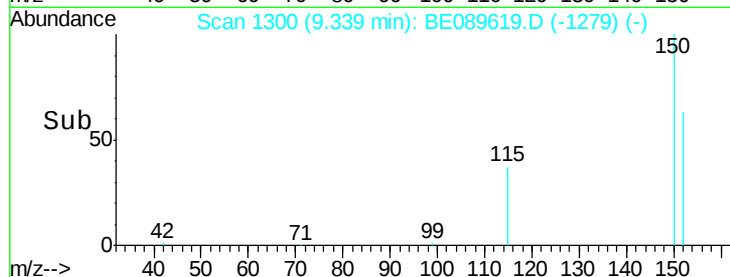
115 58.5 44.2 66.2



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

1,4-Dioxane

Concen: 0.98 ng

RT: 2.69 min Scan# 191

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

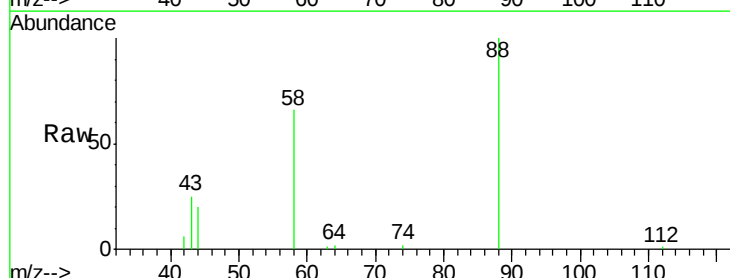
Tgt Ion: 88 Resp: 4969

Ion Ratio Lower Upper

88 100

58 70.0 54.6 81.8

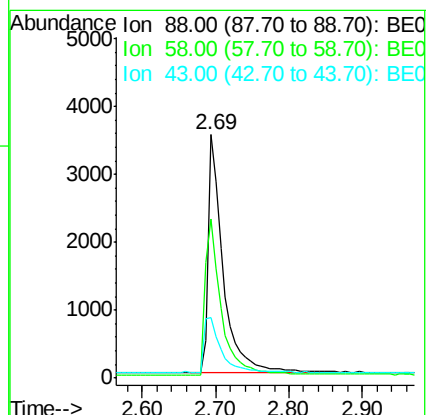
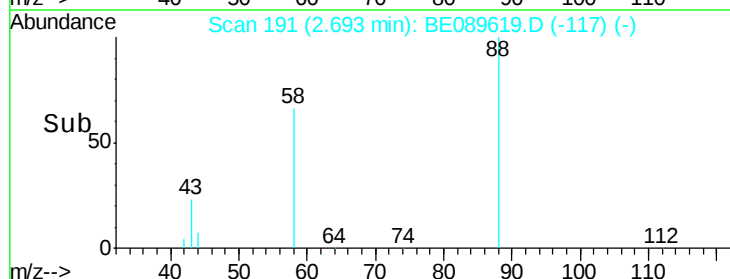
43 25.7 20.6 30.8

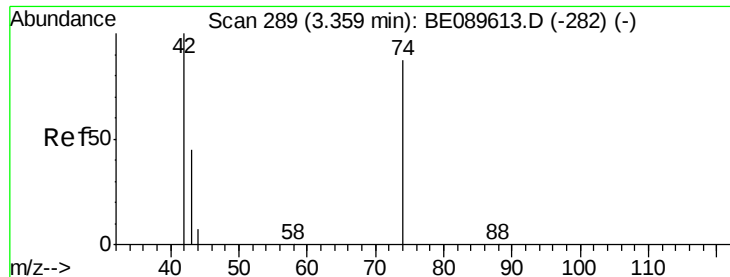


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



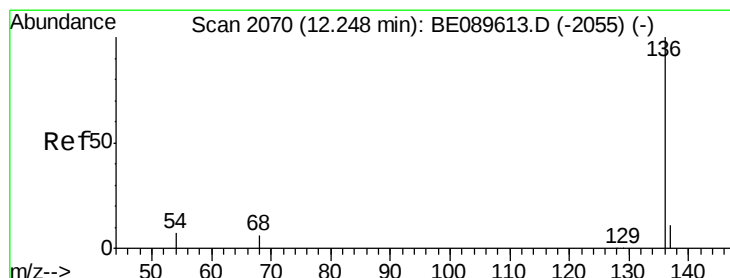
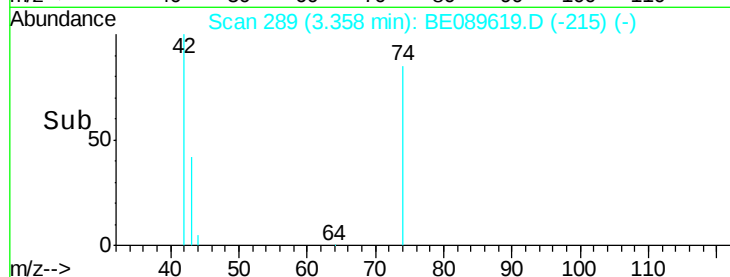
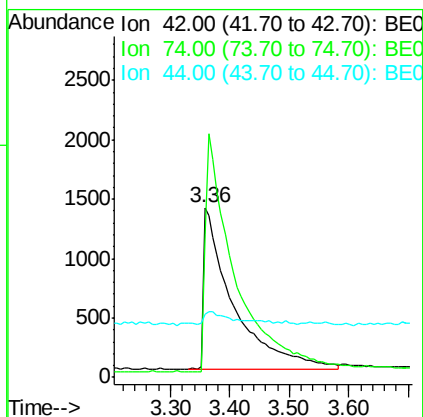
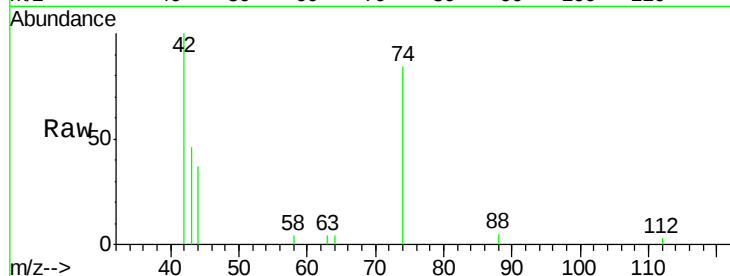


#3

n-Nitrosodimethylamine
Concen: 0.97 ng
RT: 3.36 min Scan# 289
Delta R.T. -0.00 min
Lab File: BE089619.D
Acq: 18 Feb 2015 15:17

Instrument :
BNA_E
LabSampleId :
SSTDCCC001

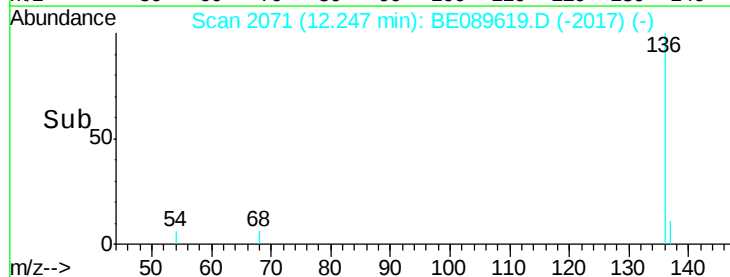
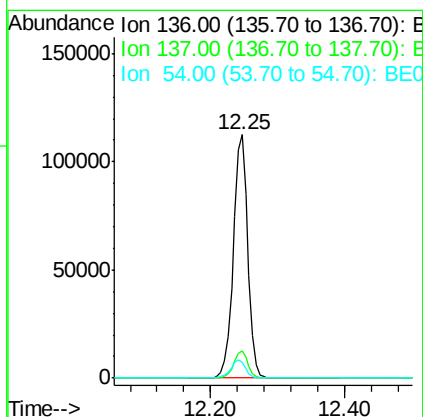
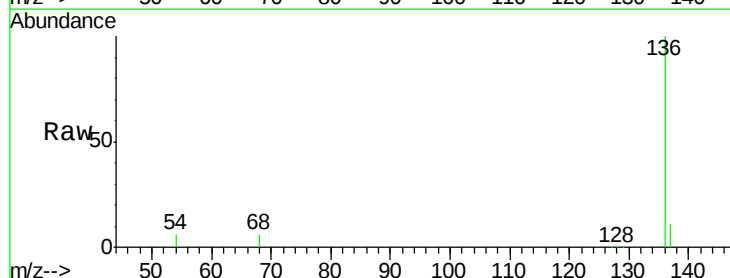
Tgt Ion: 42 Resp: 4706
Ion Ratio Lower Upper
42 100
74 152.1 121.4 182.0
44 6.0 4.5 6.7

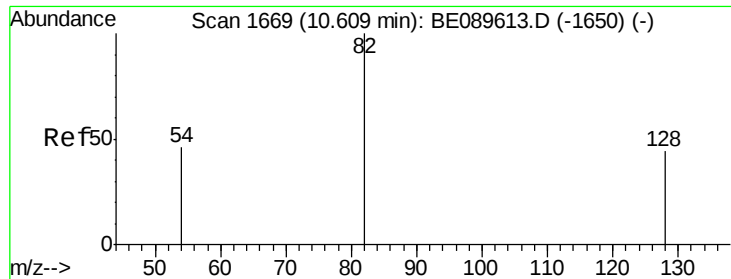


#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.25 min Scan# 2071
Delta R.T. -0.00 min
Lab File: BE089619.D
Acq: 18 Feb 2015 15:17

Tgt Ion: 136 Resp: 167350
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 6.4 5.3 7.9





#5

Nitrobenzene-d5

Concen: 0.88 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

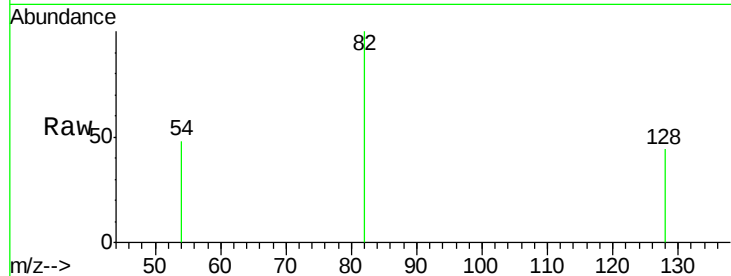
Tgt Ion: 82 Resp: 6437

Ion Ratio Lower Upper

82 100

128 44.1 35.5 53.3

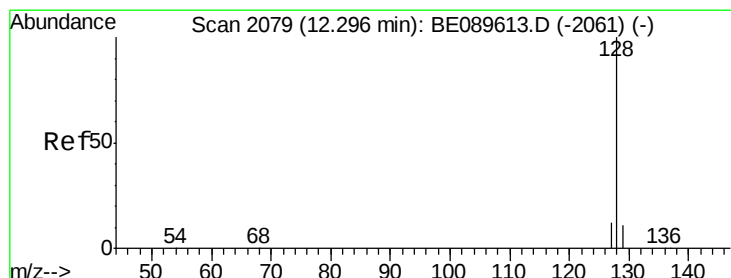
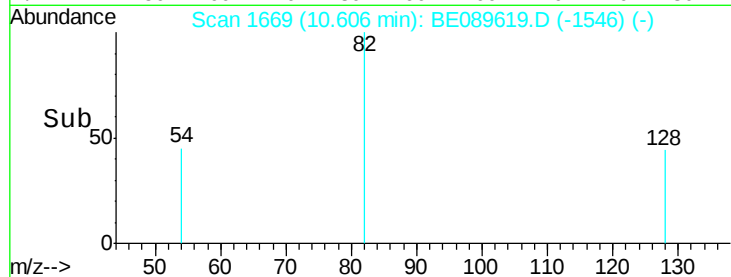
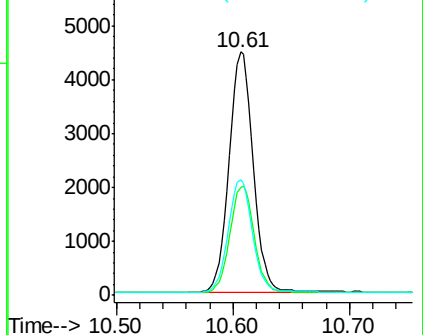
54 47.7 37.5 56.3



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



#6

Naphthalene

Concen: 1.00 ng

RT: 12.29 min Scan# 2080

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

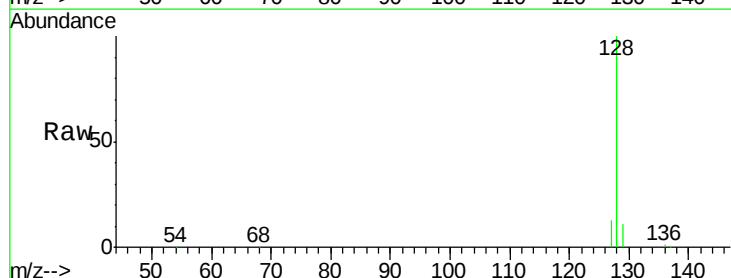
Tgt Ion: 128 Resp: 37736

Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

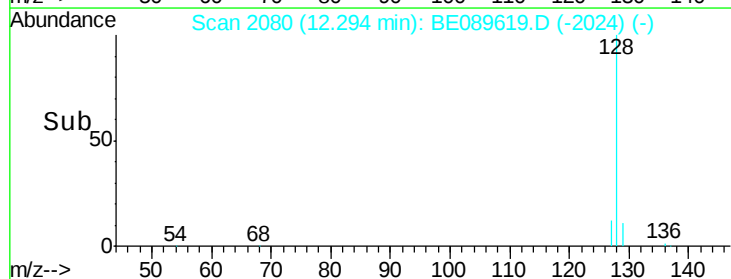
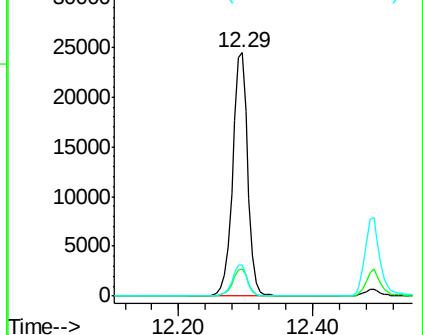
127 12.6 9.8 14.8



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





#7

2-Methylnaphthalene

Concen: 1.00 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

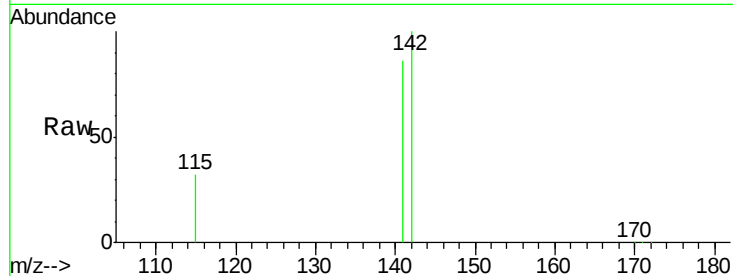
Tgt Ion:142 Resp: 23010

Ion Ratio Lower Upper

142 100

141 86.2 68.3 102.5

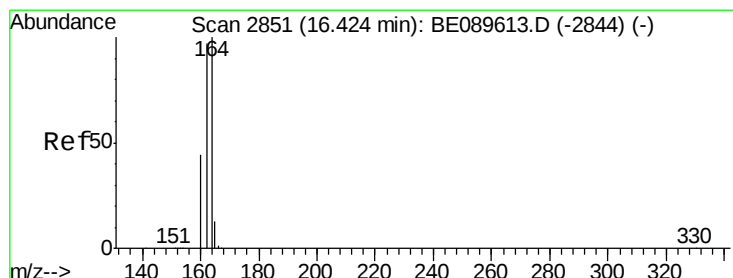
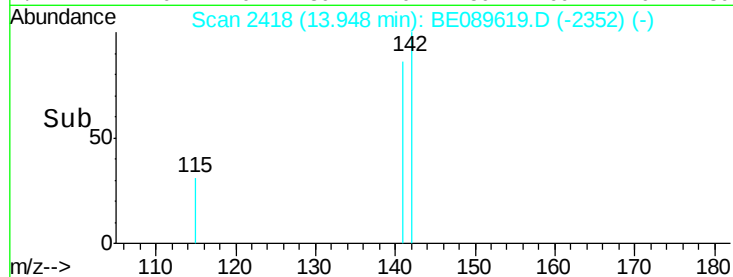
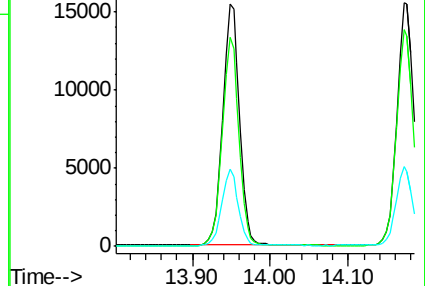
115 31.6 25.1 37.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

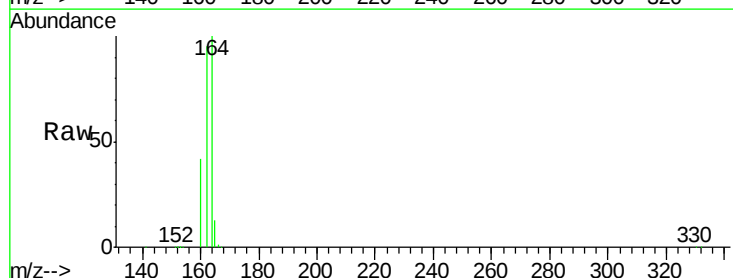
Tgt Ion:164 Resp: 82365

Ion Ratio Lower Upper

164 100

162 95.4 77.5 116.3

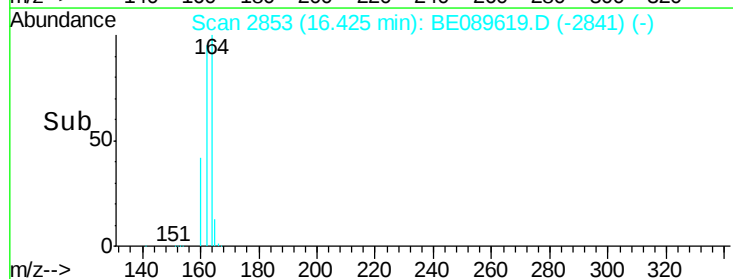
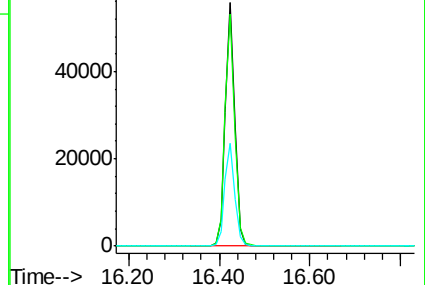
160 42.4 35.5 53.3



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

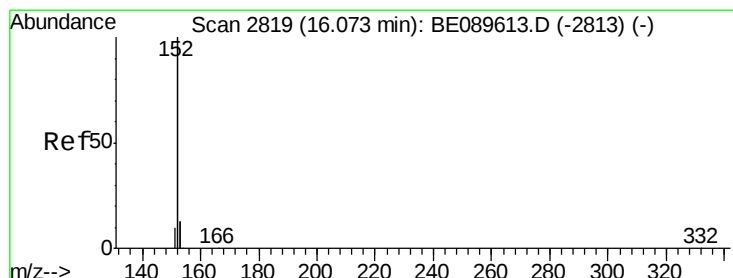
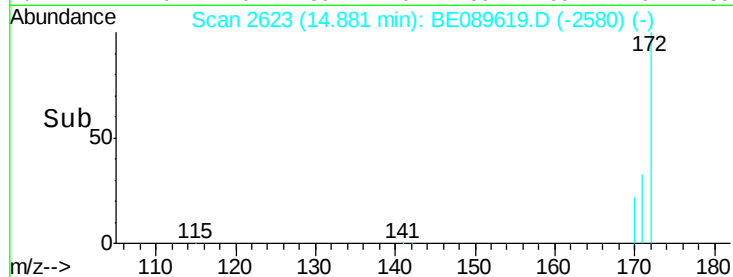
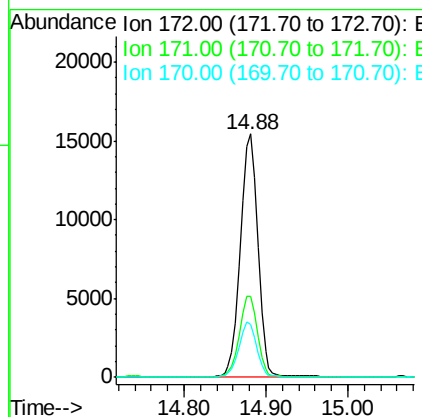
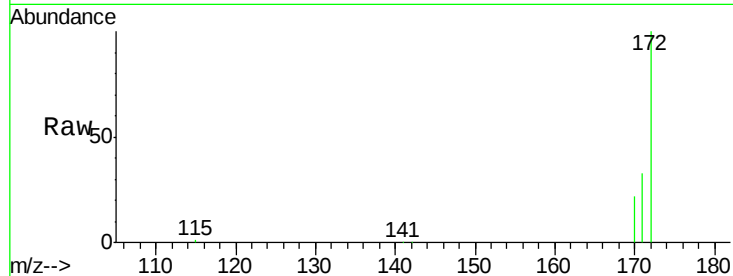




#9
 2-Fluorobiphenyl
 Concen: 1.02 ng
 RT: 14.88 min Scan# 2623
 Delta R.T. -0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

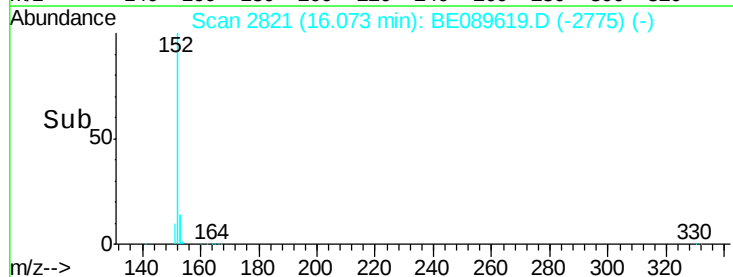
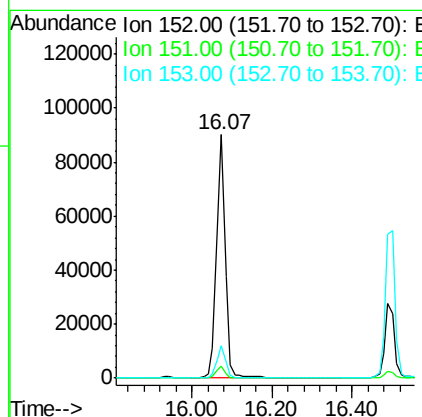
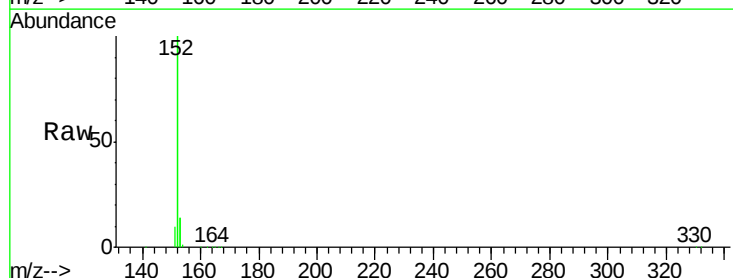
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

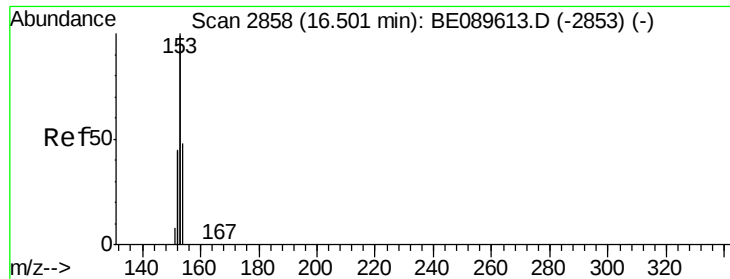
Tgt Ion:172 Resp: 22411
 Ion Ratio Lower Upper
 172 100
 171 33.4 26.9 40.3
 170 22.0 17.4 26.0



#10
 Acenaphthylene
 Concen: 1.01 ng
 RT: 16.07 min Scan# 2821
 Delta R.T. 0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Tgt Ion:152 Resp: 134972
 Ion Ratio Lower Upper
 152 100
 151 4.9 3.9 5.9
 153 13.2 10.5 15.7





#11

Acenaphthene

Concen: 1.01 ng

RT: 16.50 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

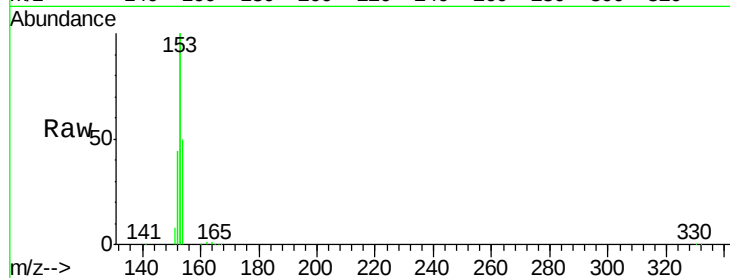
Tgt Ion:154 Resp: 21638

Ion Ratio Lower Upper

154 100

153 432.5 348.9 523.3

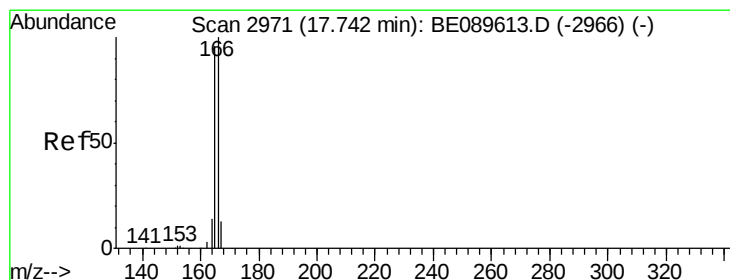
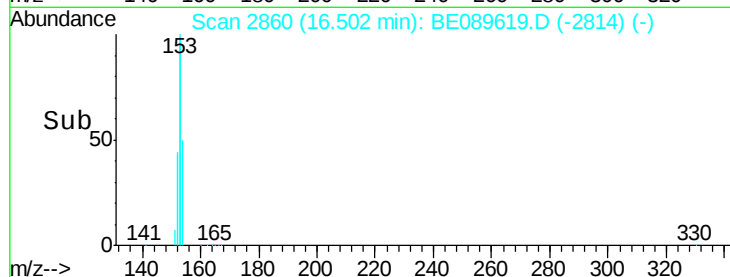
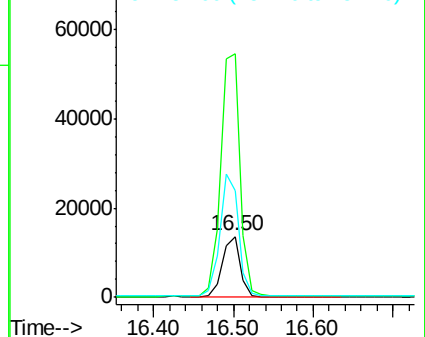
152 208.0 166.6 249.8



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



#12

Fluorene

Concen: 1.01 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

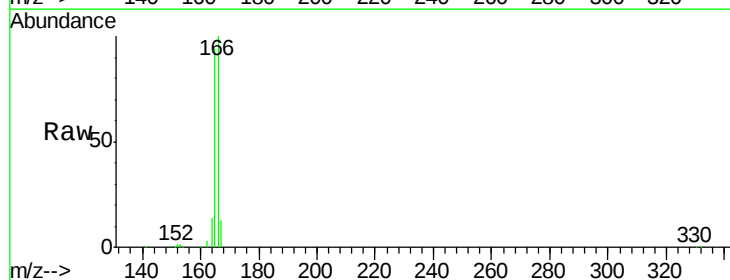
Tgt Ion:166 Resp: 25074

Ion Ratio Lower Upper

166 100

165 92.6 74.7 112.1

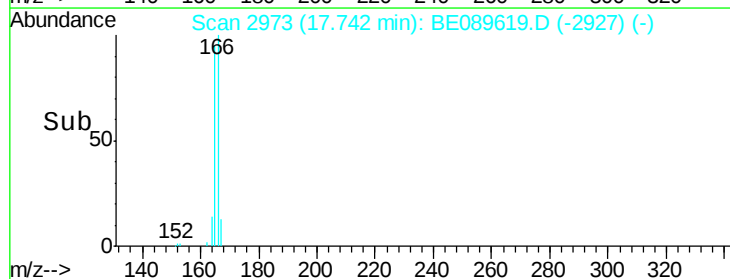
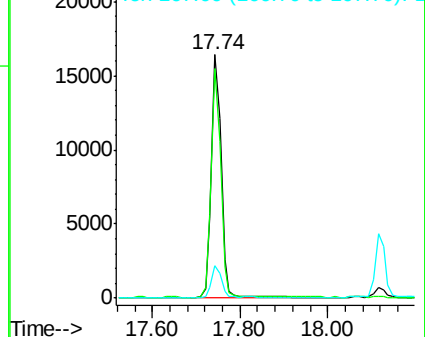
167 13.1 10.5 15.7

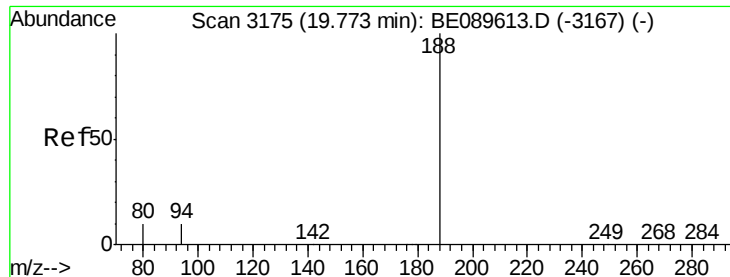


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

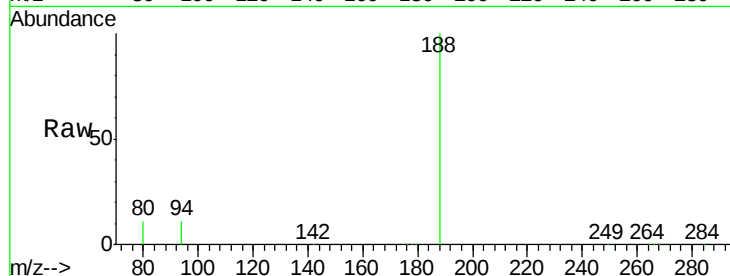




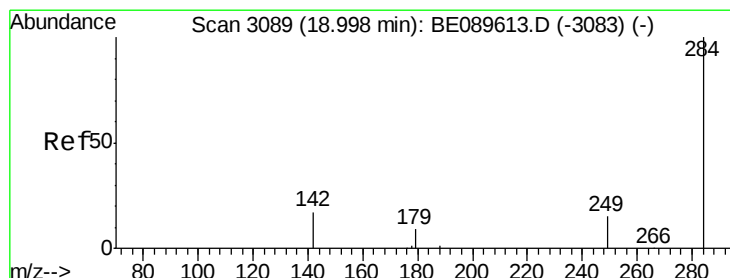
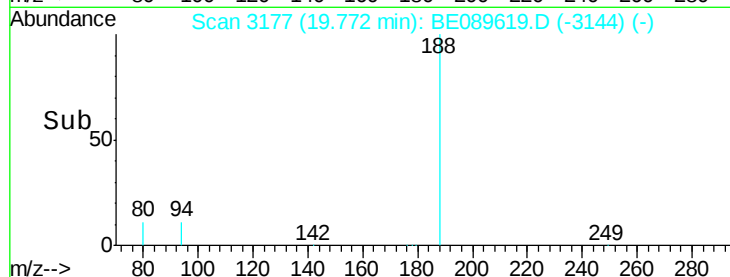
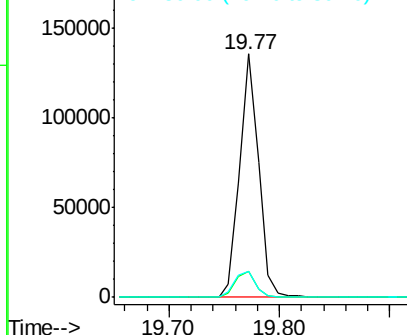
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3177
Delta R.T. -0.00 min
Lab File: BE089619.D
Acq: 18 Feb 2015 15:17

Instrument :
BNA_E
LabSampleId :
SSTDCCC001

Tgt Ion:188 Resp: 162633
Ion Ratio Lower Upper
188 100
94 10.8 8.2 12.4
80 10.7 8.1 12.1

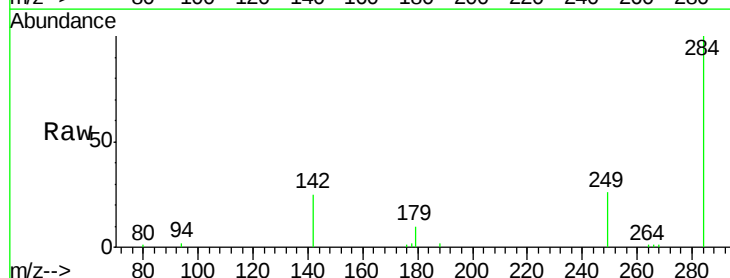


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

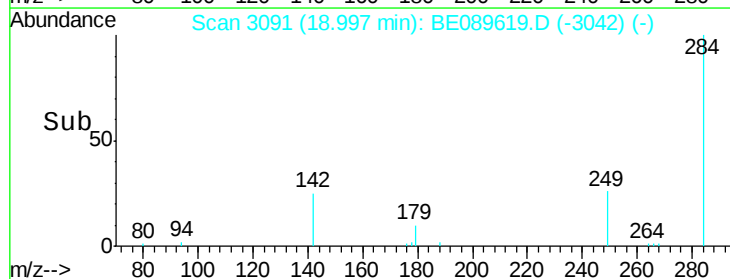
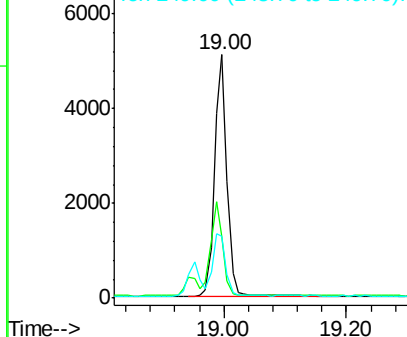


#14
Hexachlorobenzene
Concen: 1.02 ng
RT: 19.00 min Scan# 3091
Delta R.T. -0.00 min
Lab File: BE089619.D
Acq: 18 Feb 2015 15:17

Tgt Ion:284 Resp: 7125
Ion Ratio Lower Upper
284 100
142 38.6 32.3 48.5
249 27.8 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

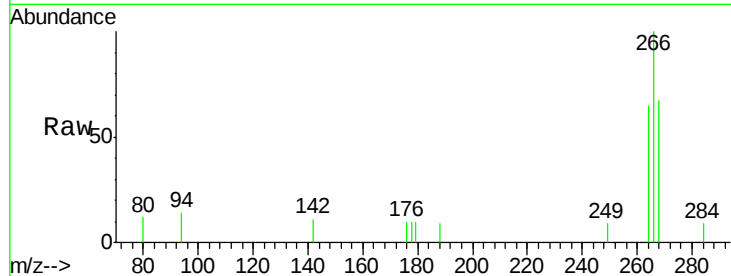




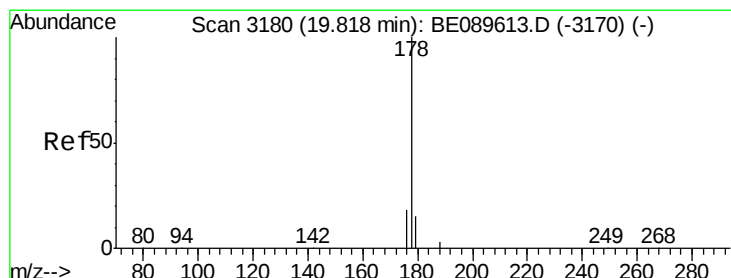
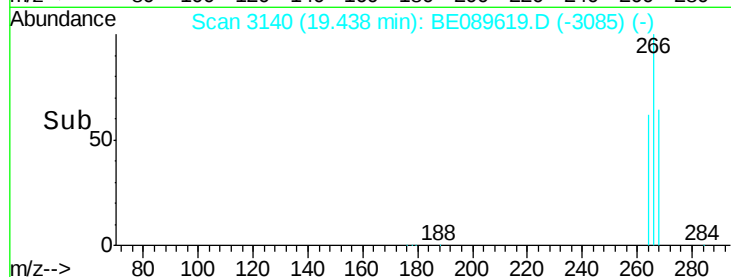
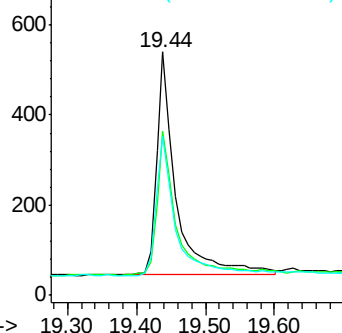
#15
 Pentachlorophenol
 Concen: 0.99 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. -0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Tgt Ion: 266 Resp: 977
 Ion Ratio Lower Upper
 266 100
 268 67.4 52.6 79.0
 264 65.2 51.8 77.8

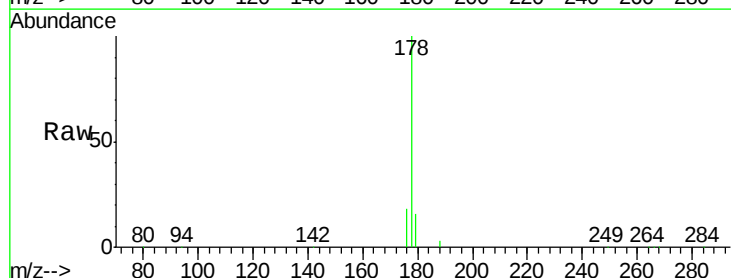


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

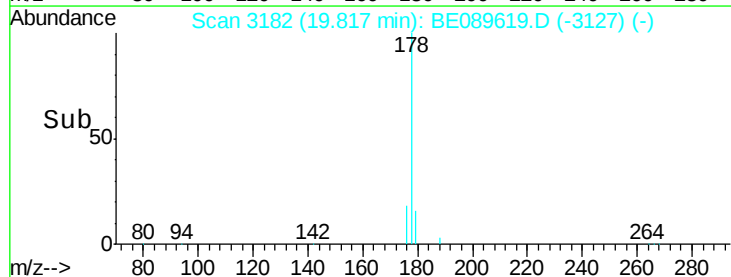
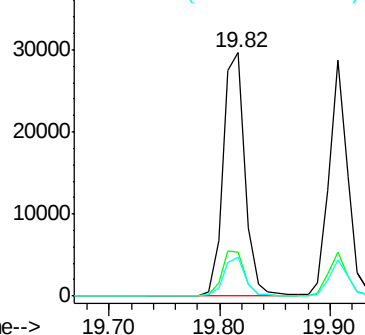


#16
 Phenanthrene
 Concen: 1.02 ng
 RT: 19.82 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Tgt Ion: 178 Resp: 40594
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.1 22.7
 179 15.4 12.3 18.5



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

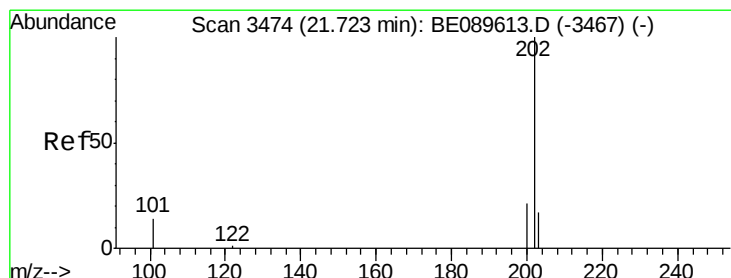
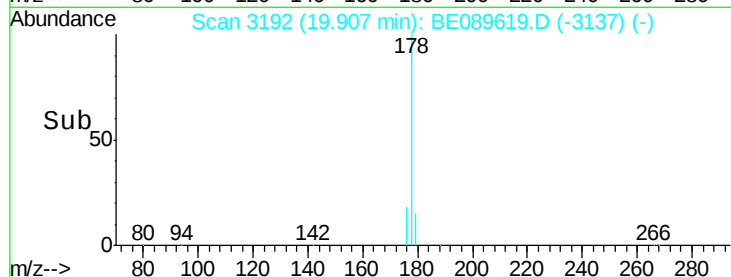
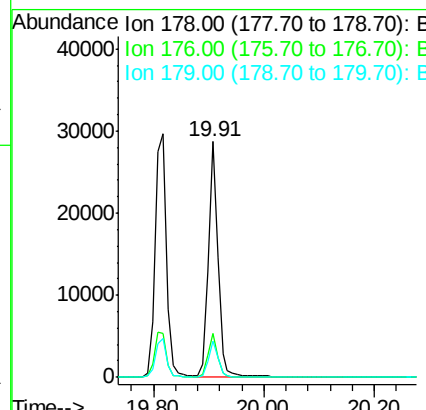
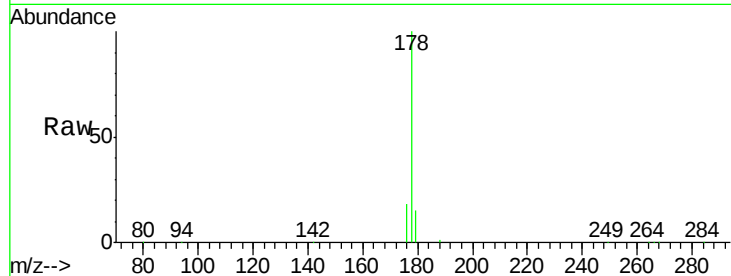




#17
 Anthracene
 Concen: 1.00 ng
 RT: 19.91 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

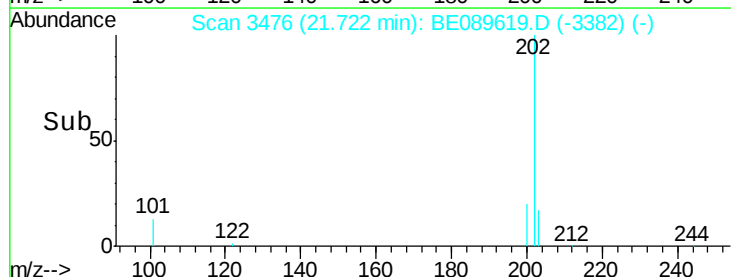
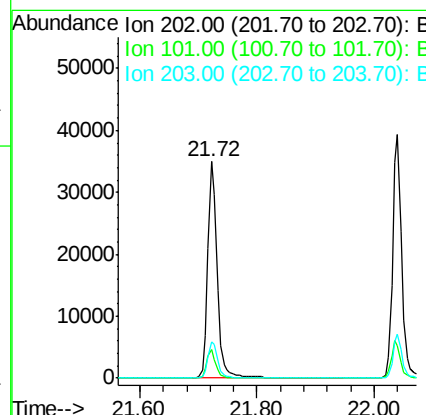
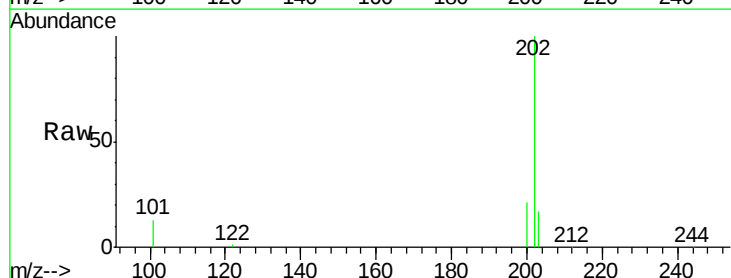
Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

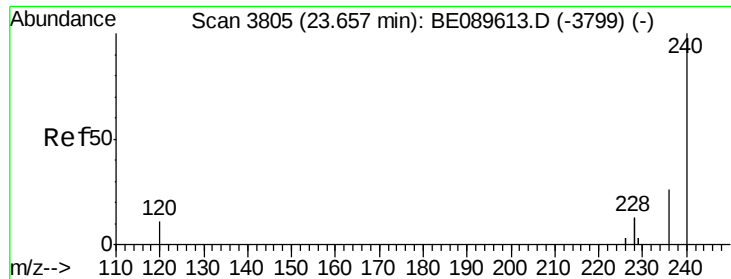
Tgt Ion:178 Resp: 33964
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 22.0
 179 15.3 12.3 18.5



#18
 Fluoranthene
 Concen: 1.01 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Tgt Ion:202 Resp: 38423
 Ion Ratio Lower Upper
 202 100
 101 12.8 10.4 15.6
 203 17.2 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

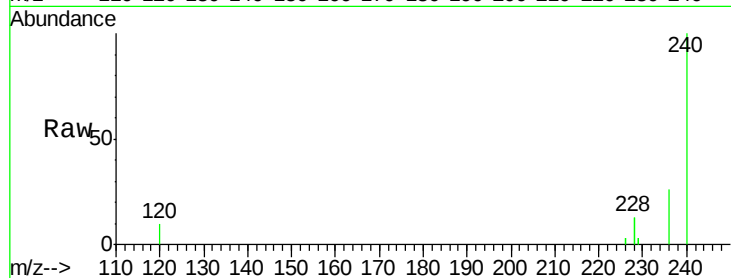
Tgt Ion:240 Resp: 171890

Ion Ratio Lower Upper

240 100

120 10.0 9.0 13.4

236 25.7 21.0 31.6



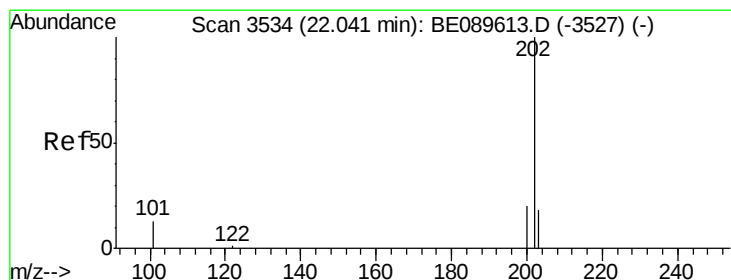
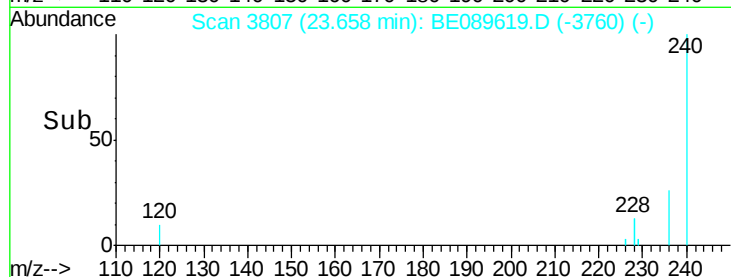
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

23.66

Time-->



#20

Pyrene

Concen: 1.01 ng

RT: 22.04 min Scan# 3536

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

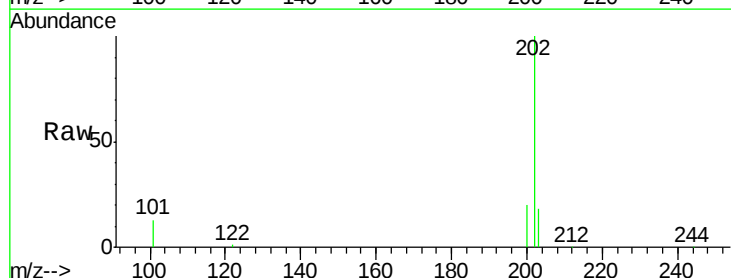
Tgt Ion:202 Resp: 42694

Ion Ratio Lower Upper

202 100

200 20.5 16.3 24.5

203 17.5 13.8 20.8



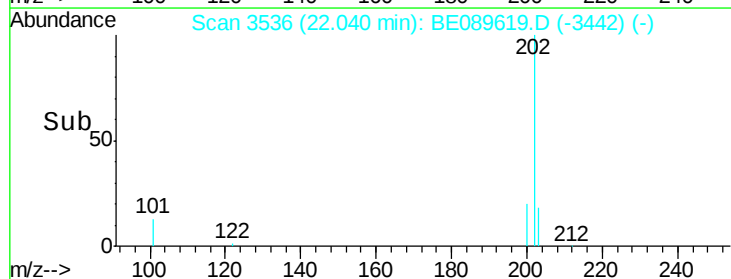
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

22.04

Time-->





#21

Terphenyl-d14

Concen: 0.99 ng

RT: 22.30 min Scan# 3585

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

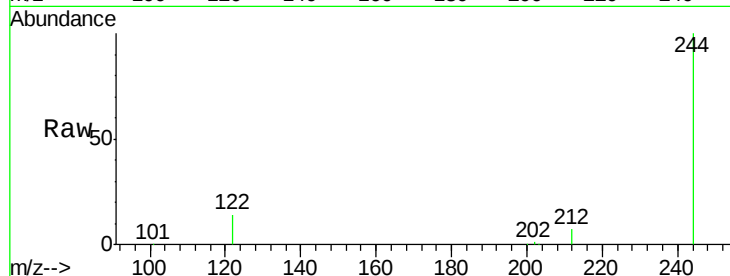
Tgt Ion:244 Resp: 24395

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

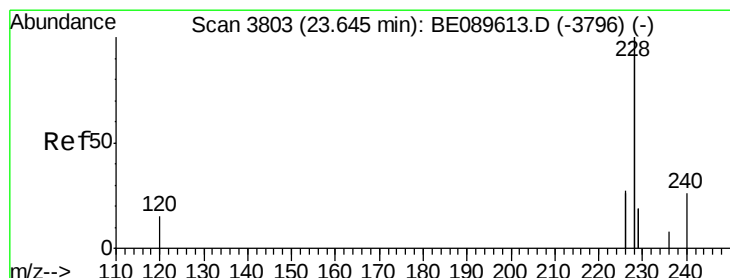
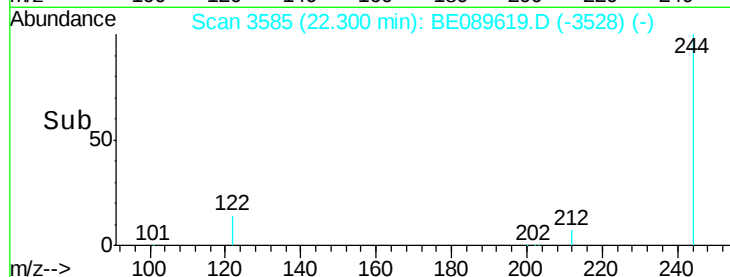
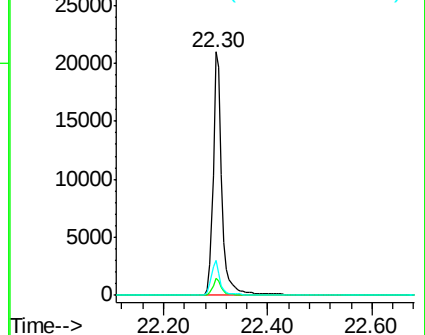
122 14.3 11.8 17.8



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



#22

Benzo(a)anthracene

Concen: 0.95 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

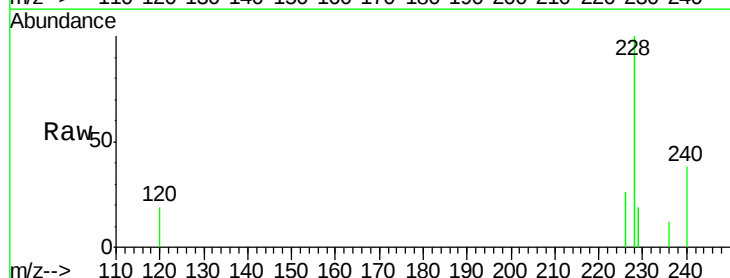
Tgt Ion:228 Resp: 143911

Ion Ratio Lower Upper

228 100

226 26.4 21.2 31.8

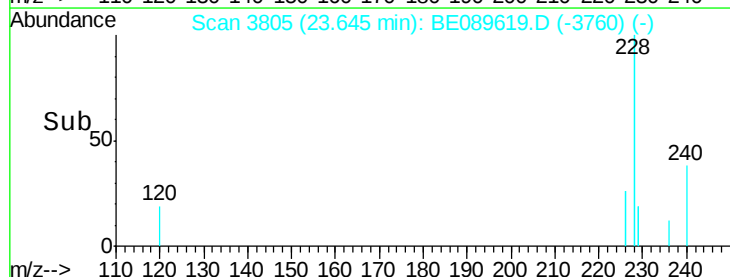
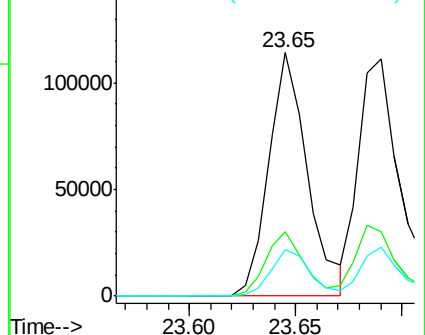
229 19.1 15.2 22.8



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





#23

Chrysene

Concen: 1.01 ng

RT: 23.69 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

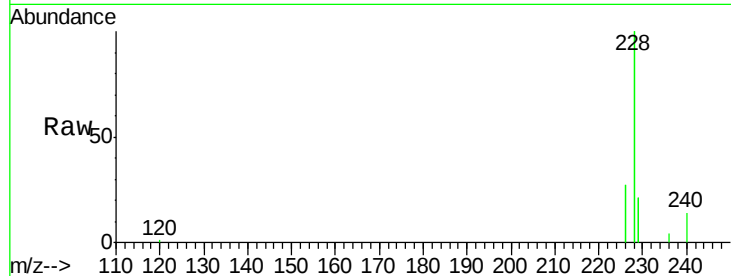
Tgt Ion:228 Resp: 171378

Ion Ratio Lower Upper

228 100

226 27.2 22.2 33.4

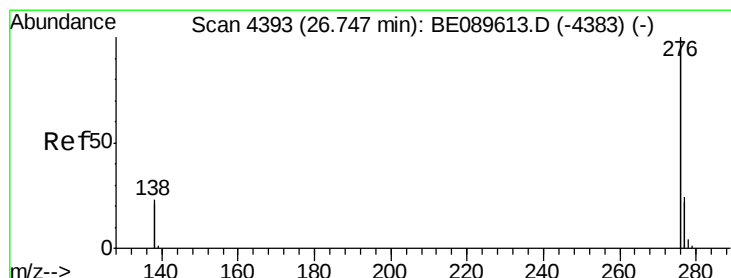
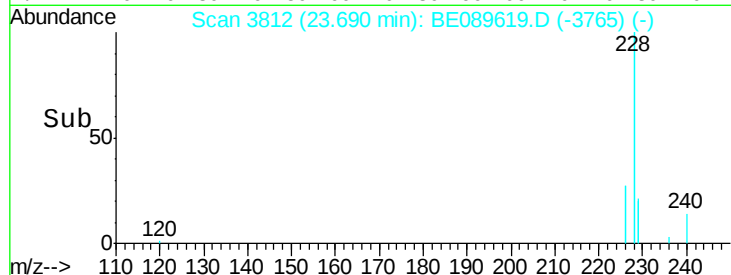
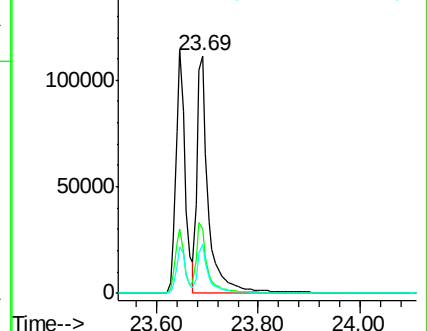
229 20.6 16.0 24.0



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

Indeno(1,2,3-cd)pyrene

Concen: 0.83 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

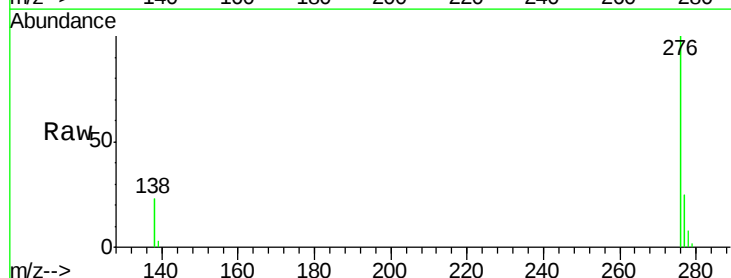
Tgt Ion:276 Resp: 103630

Ion Ratio Lower Upper

276 100

138 26.4 21.4 32.2

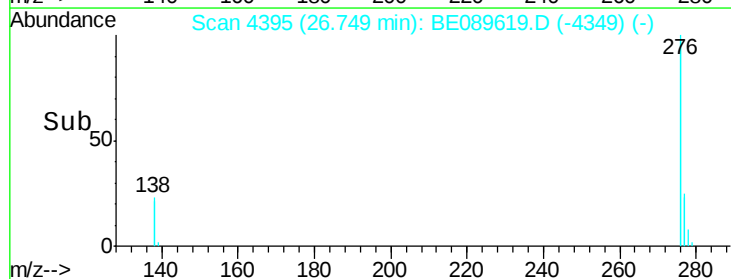
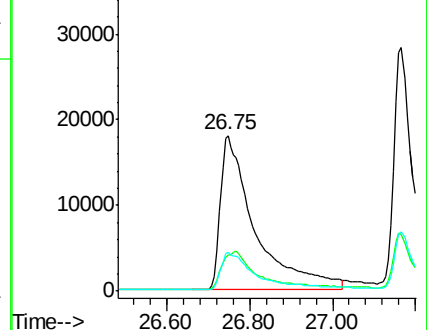
277 25.0 19.9 29.9

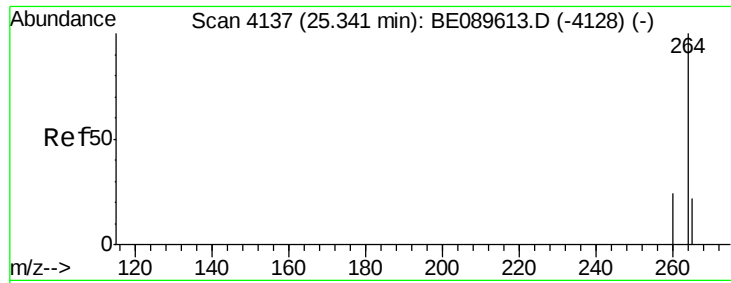


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

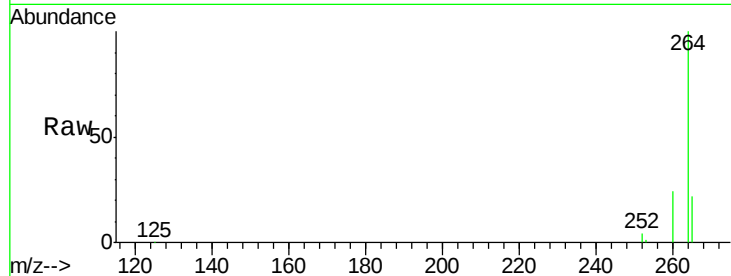




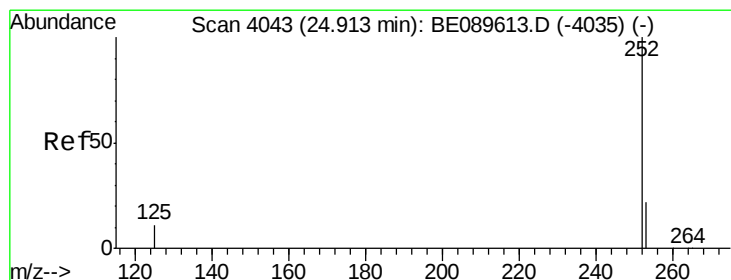
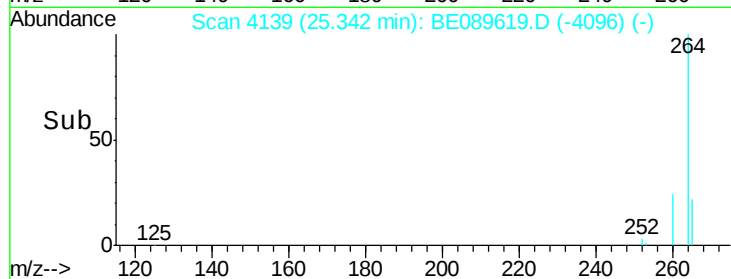
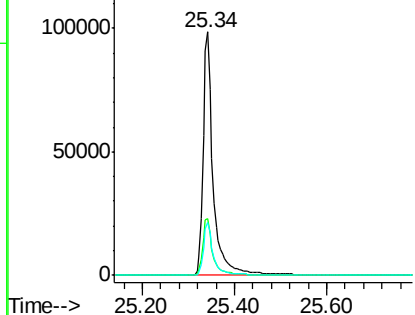
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Tgt Ion: 264 Resp: 148425
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.6
 265 22.0 17.4 26.0

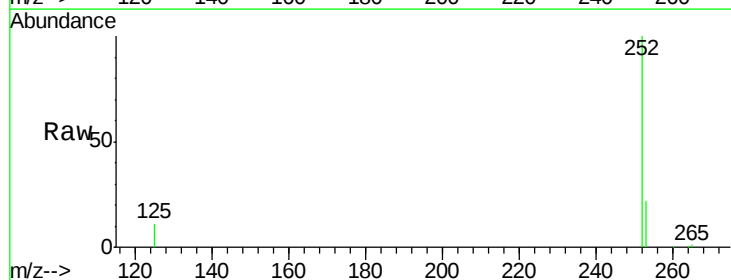


Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

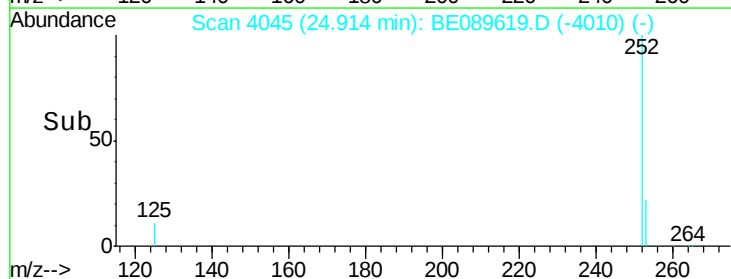
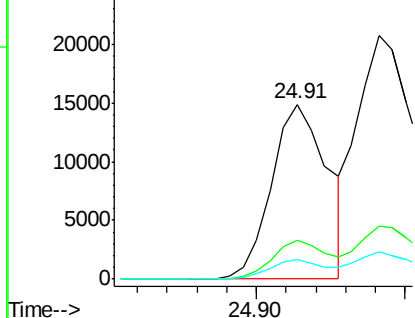


#26
 Benzo(b)fluoranthene
 Concen: 0.79 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. 0.00 min
 Lab File: BE089619.D
 Acq: 18 Feb 2015 15:17

Tgt Ion: 252 Resp: 19299
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.6 26.4
 125 11.0 8.8 13.2



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





#27

Benzo(k)fluoranthene

Concen: 1.05 ng

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

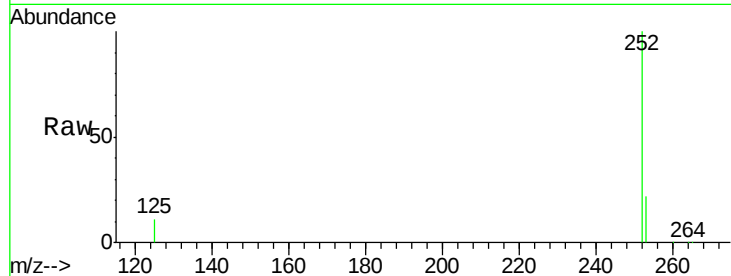
Tgt Ion:252 Resp: 44449

Ion Ratio Lower Upper

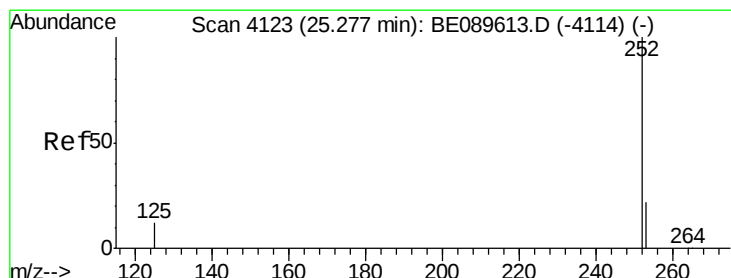
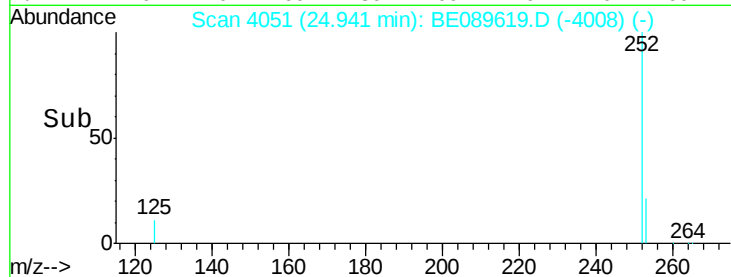
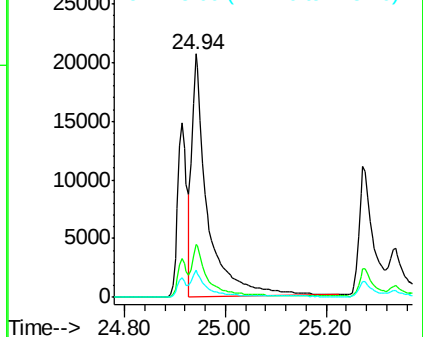
252 100

253 21.6 17.7 26.5

125 11.0 8.8 13.2



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



#28

Benzo(a)pyrene

Concen: 0.83 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

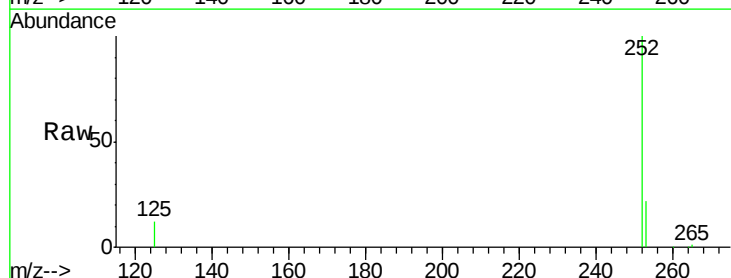
Tgt Ion:252 Resp: 20287

Ion Ratio Lower Upper

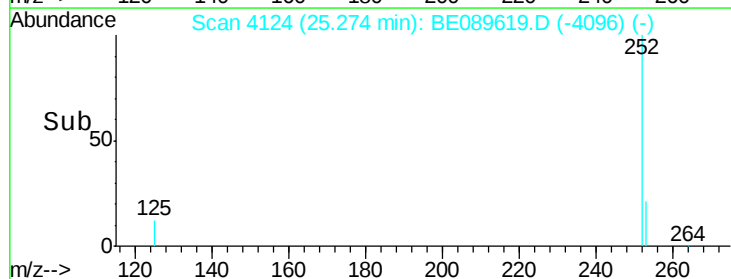
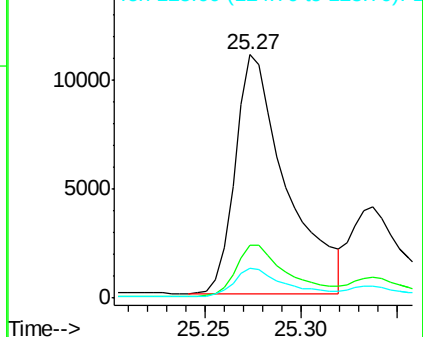
252 100

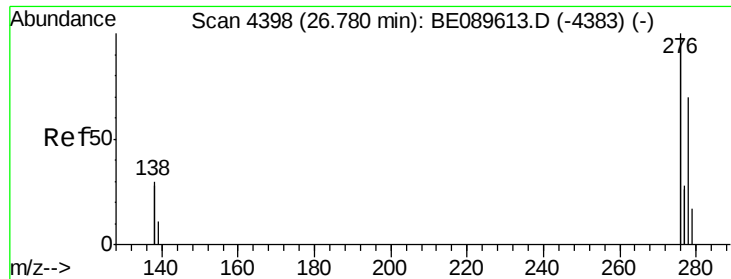
253 21.6 18.1 27.1

125 12.1 9.6 14.4



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





#29

Dibenzo(a,h)anthracene

Concen: 0.82 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

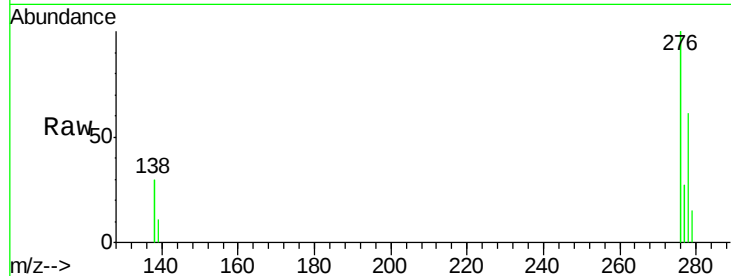
Tgt Ion:278 Resp: 19652

Ion Ratio Lower Upper

278 100

139 17.8 13.7 20.5

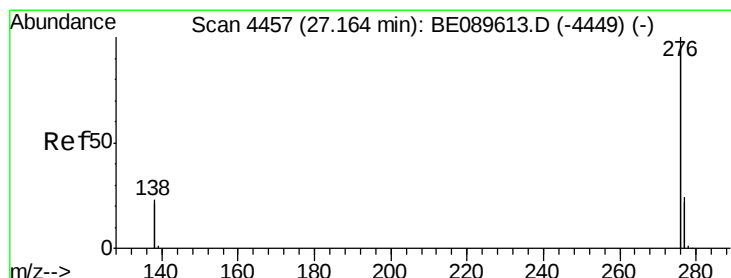
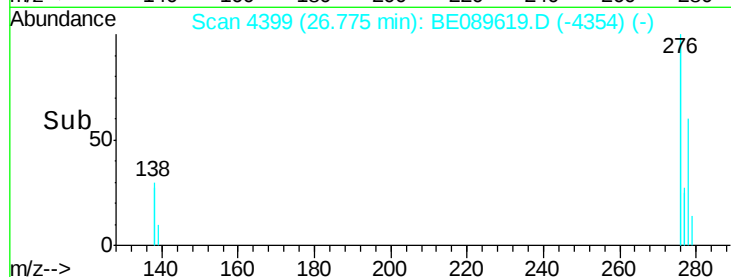
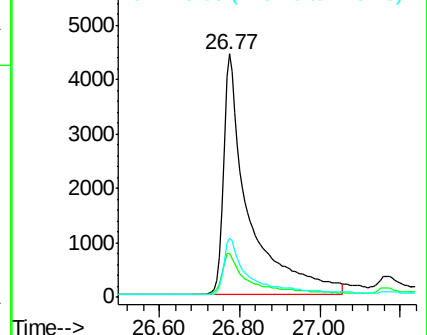
279 24.1 19.7 29.5



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



#30

Benzo(g,h,i)perylene

Concen: 0.89 ng

RT: 27.17 min Scan# 4459

Delta R.T. 0.00 min

Lab File: BE089619.D

Acq: 18 Feb 2015 15:17

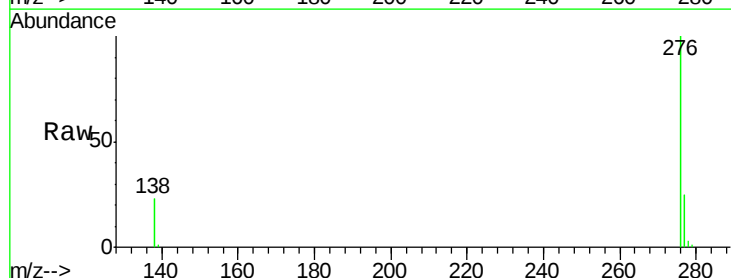
Tgt Ion:276 Resp: 103547

Ion Ratio Lower Upper

276 100

277 24.6 19.1 28.7

138 23.3 18.7 28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

