

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088429.D
 Acq On : 31 Oct 2014 18:42
 Operator : TP/JJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Quant Time: Nov 01 00:25:42 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:20:37 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	41718	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	159212	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	71286	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	128883	5.00	ng	0.00
16) Chrysene-d12	18.32	240	61468	5.00	ng	0.00
22) Perylene-d12	21.37	264	56174	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	120477	10.37	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	187904	9.27	ng	0.00
18) Terphenyl-d14	16.07	244	112326	9.93	ng	0.00

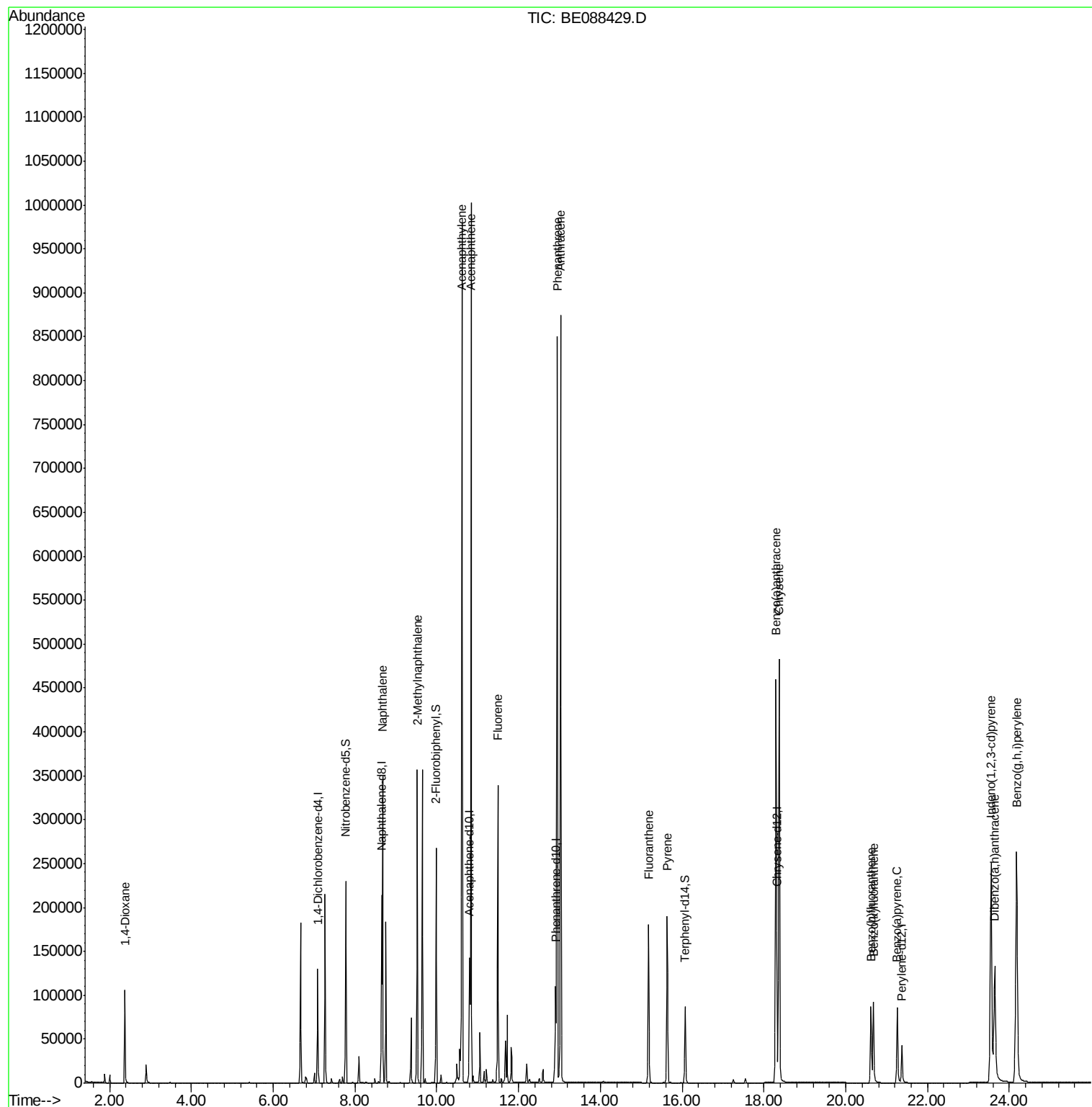
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.37	88	54050	9.90	ng	100
5) Naphthalene	8.68	128	303353	9.10	ng	99
6) 2-Methylnaphthalene	9.53	142	188753	9.15	ng	95
9) Acenaphthylene	10.62	152	1033285	8.82	ng	99
10) Acenaphthene	10.84	154	149408	8.57	ng	96
11) Fluorene	11.49	166	161719	8.77	ng	99
13) Phenanthrene	12.95	178	1133815	8.67	ng	99
14) Anthracene	13.03	178	884584	9.27	ng	99
15) Fluoranthene	15.18	202	188230	9.89	ng	99
17) Pyrene	15.63	202	195623	9.71	ng	100
19) Benzo(a)anthracene	18.29	228	577682	9.97	ng	99
20) Chrysene	18.37	228	557592	9.78	ng	99
21) Indeno(1,2,3-cd)pyrene	23.55	276	442506	8.18	ng	# 87
23) Benzo(b)fluoranthene	20.62	252	127631	10.42	ng	99
24) Benzo(k)fluoranthene	20.68	252	133892	9.85	ng	99
25) Benzo(a)pyrene	21.26	252	122868	10.45	ng	98
26) Dibenzo(a,h)anthracene	23.64	278	113301	10.36	ng	99
27) Benzo(g,h,i)perylene	24.18	276	497946	9.87	ng	97

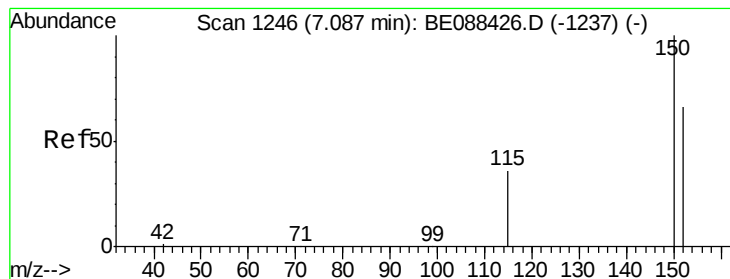
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

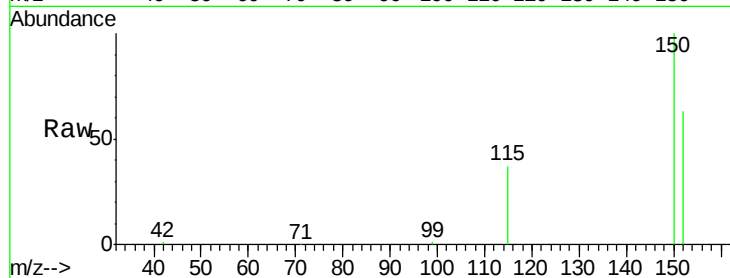
Tgt Ion:152 Resp: 41718

Ion Ratio Lower Upper

152 100

150 158.2 121.8 182.8

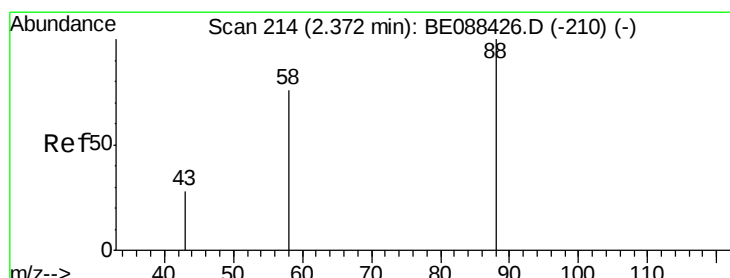
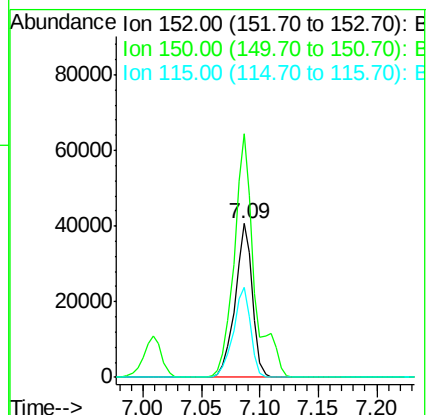
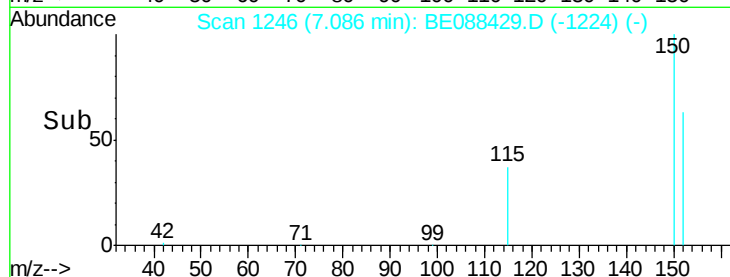
115 58.6 43.9 65.9



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: 9.90 ng

RT: 2.37 min Scan# 214

Delta R.T. -0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

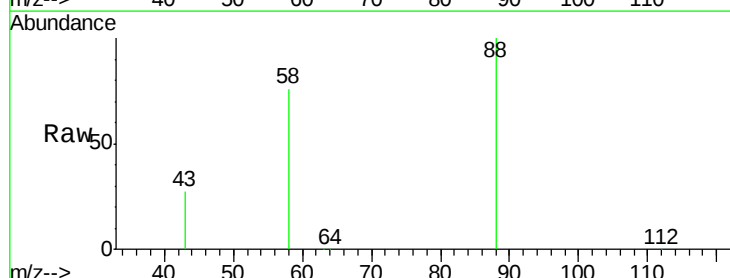
Tgt Ion: 88 Resp: 54050

Ion Ratio Lower Upper

88 100

58 74.1 59.1 88.7

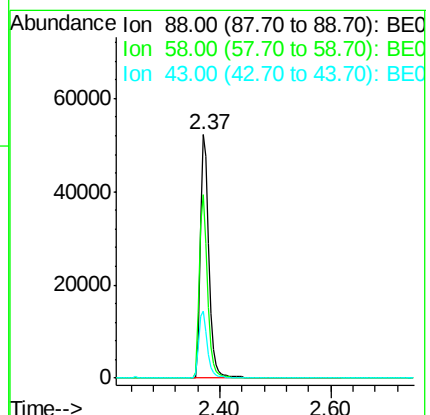
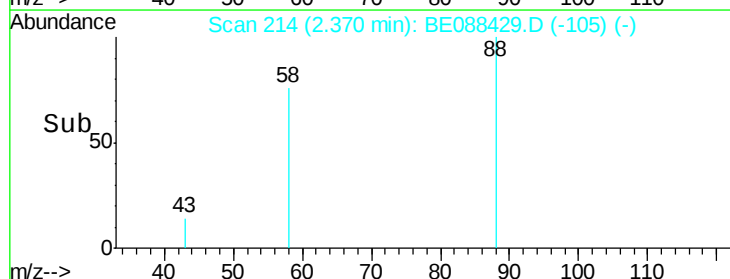
43 27.2 21.9 32.9

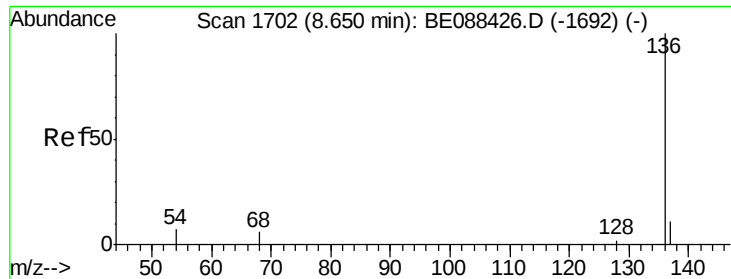


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

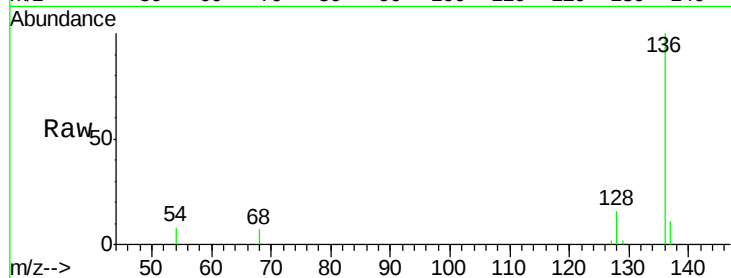




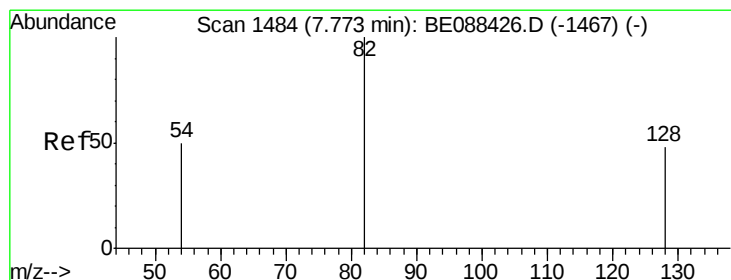
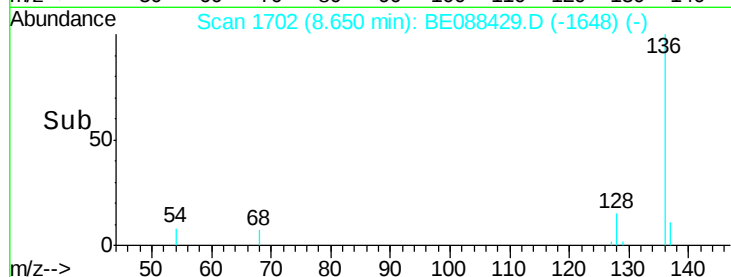
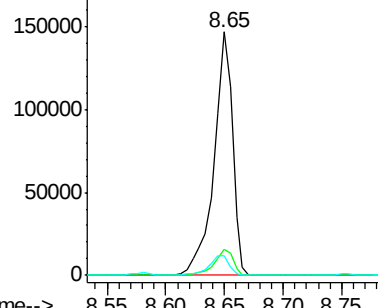
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088429.D
Acq: 31 Oct 2014 18:42

Instrument :
BNA_E
ClientSampleId :
SSTDIC010

Tgt Ion: 136 Resp: 159212
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 8.1 5.3 7.9#

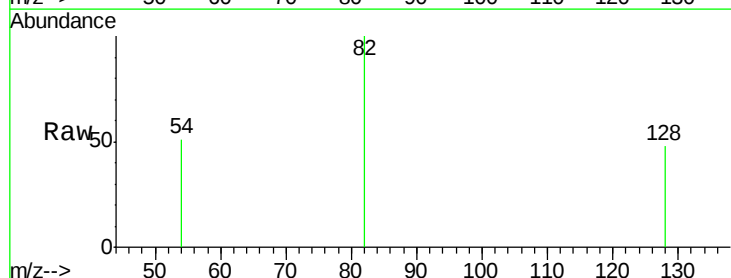


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

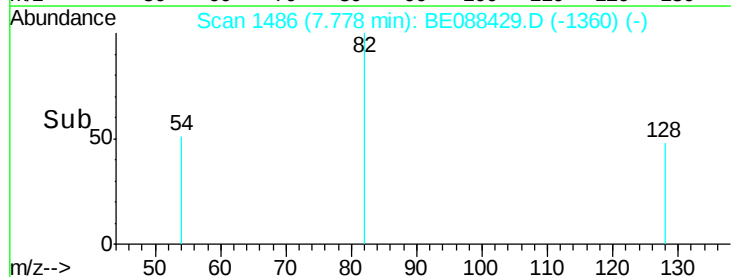
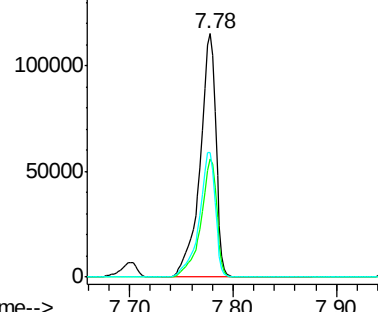


#4
Nitrobenzene-d5
Concen: 10.37 ng
RT: 7.78 min Scan# 1486
Delta R.T. 0.00 min
Lab File: BE088429.D
Acq: 31 Oct 2014 18:42

Tgt Ion: 82 Resp: 120477
Ion Ratio Lower Upper
82 100
128 48.5 38.4 57.6
54 51.4 40.2 60.2



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





#5

Naphthalene

Concen: 9.10 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

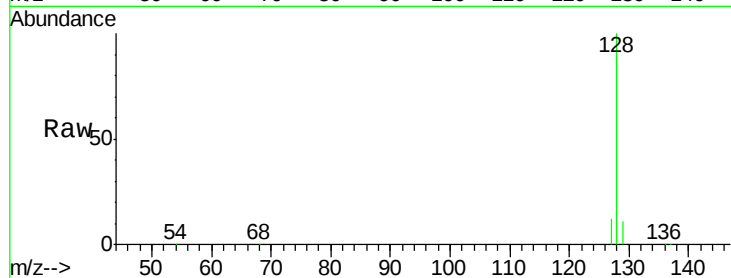
Tgt Ion:128 Resp: 303353

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

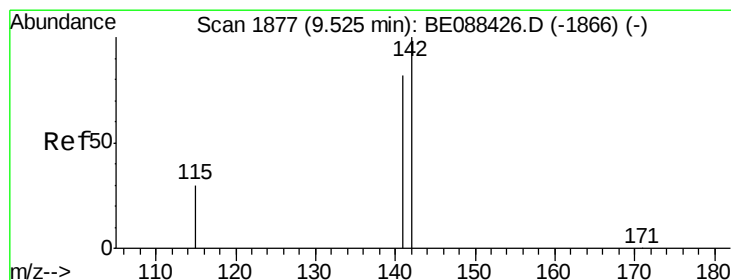
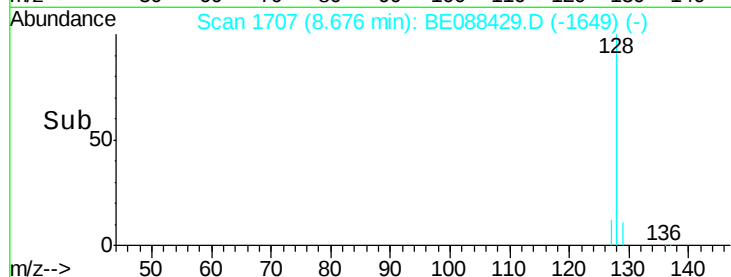
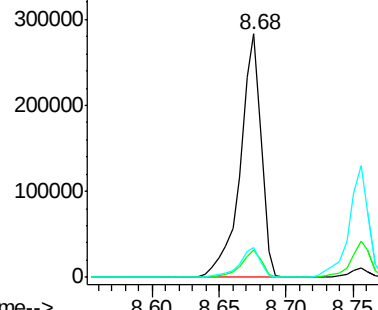
127 12.2 10.1 15.1



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



#6

2-Methylnaphthalene

Concen: 9.15 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

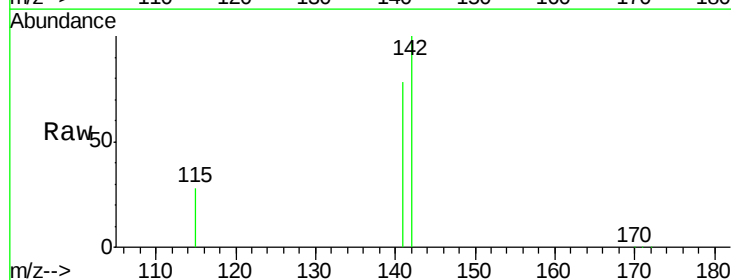
Tgt Ion:142 Resp: 188753

Ion Ratio Lower Upper

142 100

141 77.7 65.8 98.8

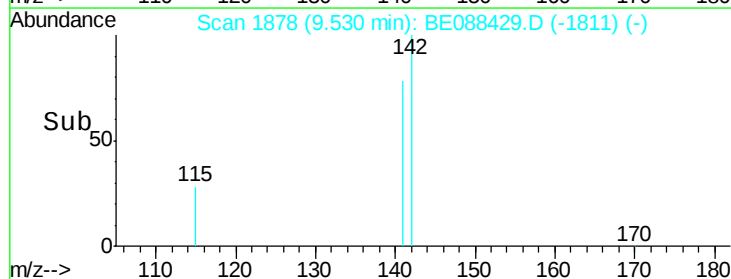
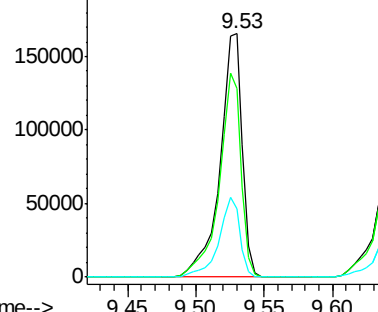
115 27.9 24.2 36.4



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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

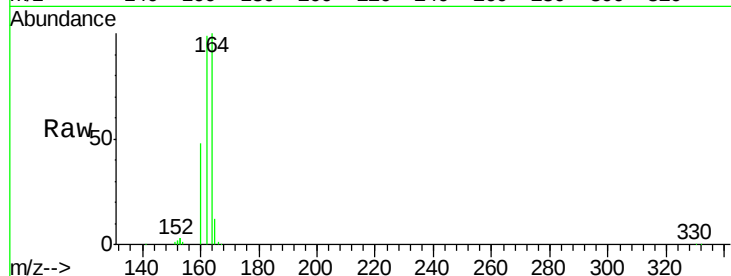
Tgt Ion:164 Resp: 71286

Ion Ratio Lower Upper

164 100

162 98.7 77.0 115.4

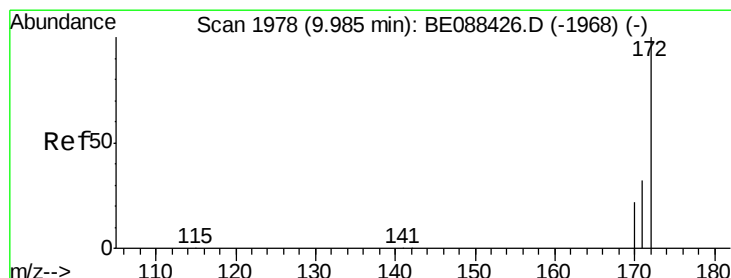
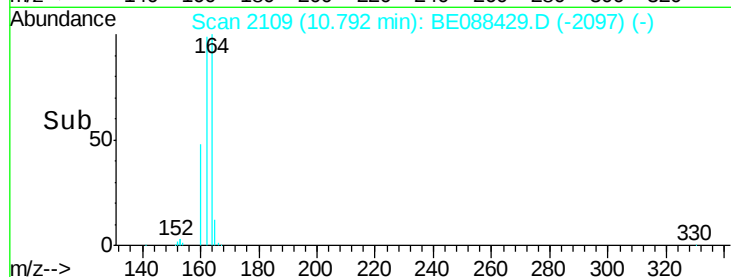
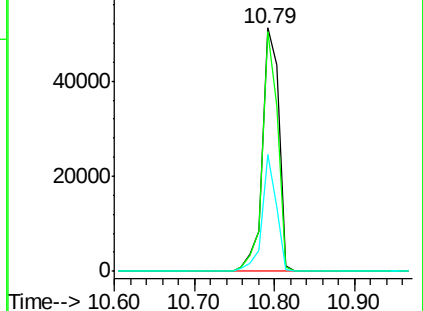
160 48.1 36.8 55.2



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



#8

2-Fluorobiphenyl

Concen: 9.27 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

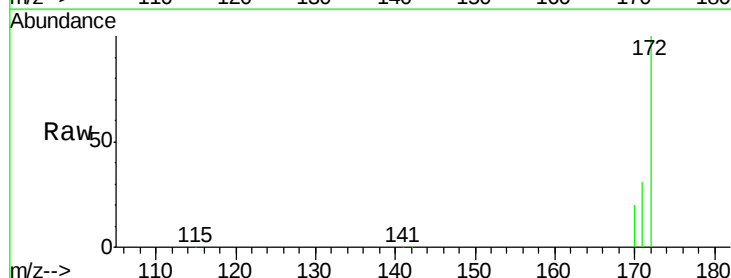
Tgt Ion:172 Resp: 187904

Ion Ratio Lower Upper

172 100

171 30.8 26.0 39.0

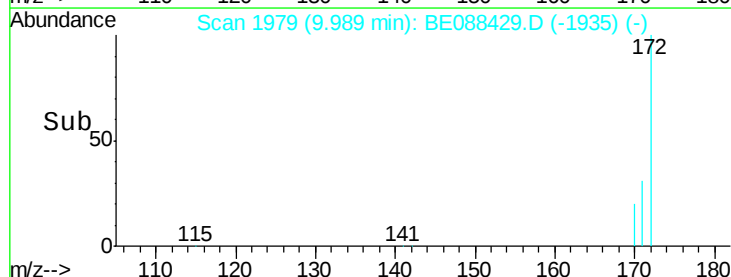
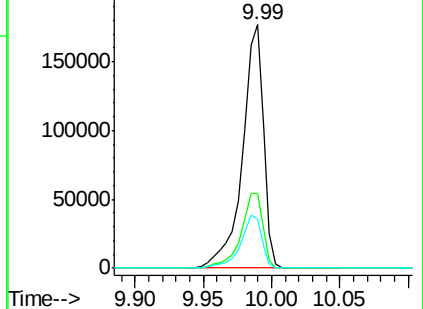
170 20.0 17.6 26.4

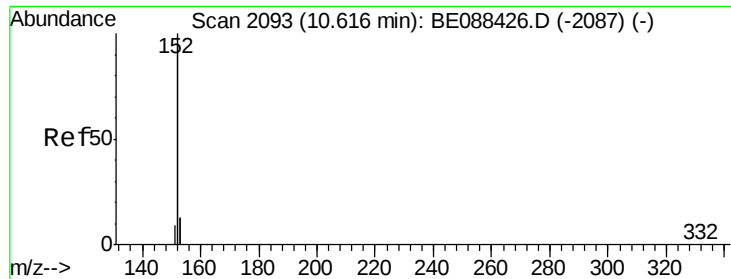


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 8.82 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

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ClientSampleId :

SSTDICC010

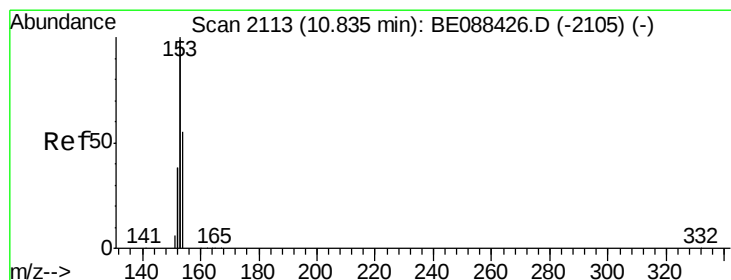
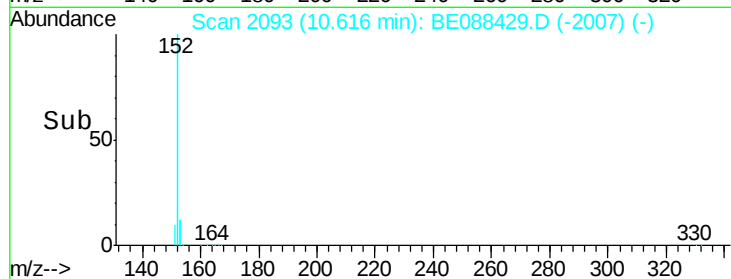
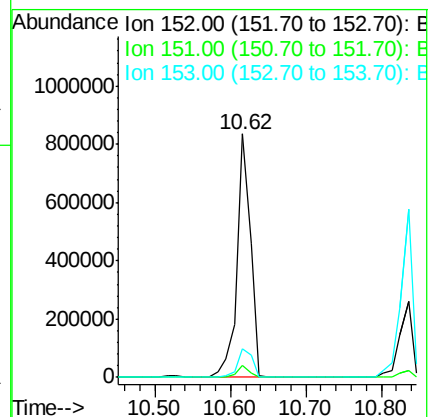
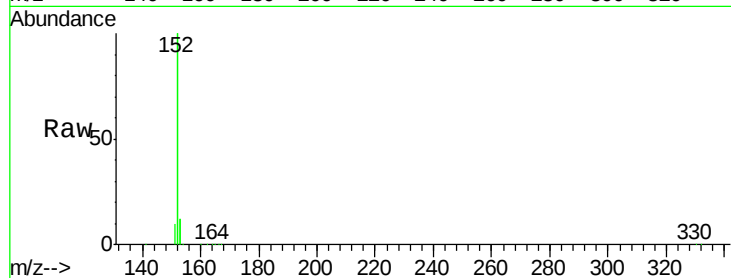
Tgt Ion:152 Resp: 1033285

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

153 13.1 10.5 15.7



#10

Acenaphthene

Concen: 8.57 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

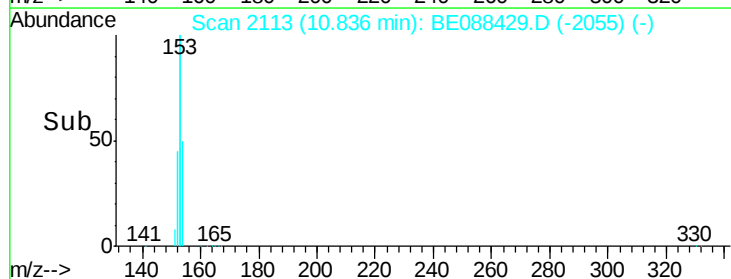
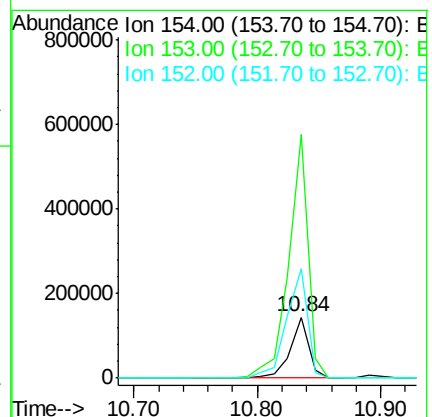
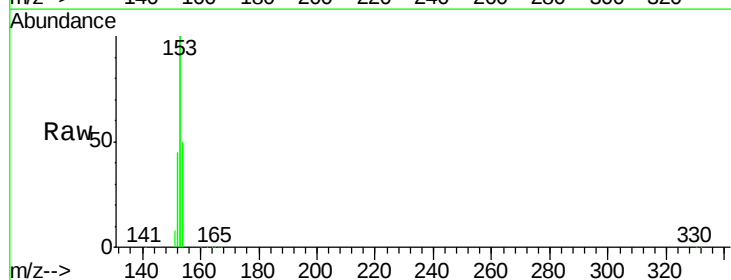
Tgt Ion:154 Resp: 149408

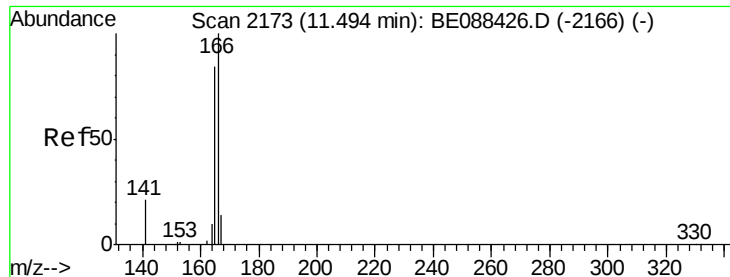
Ion Ratio Lower Upper

154 100

153 413.1 324.3 486.5

152 201.8 154.9 232.3





#11

Fluorene

Concen: 8.77 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

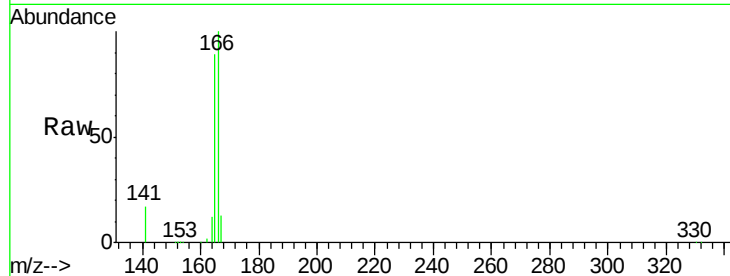
Tgt Ion:166 Resp: 161719

Ion Ratio Lower Upper

166 100

165 89.9 71.3 106.9

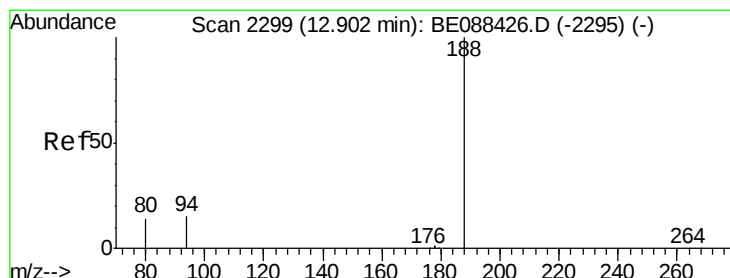
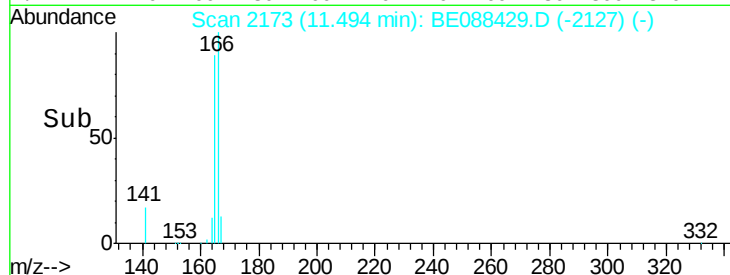
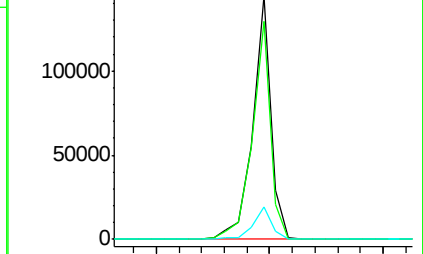
167 13.5 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

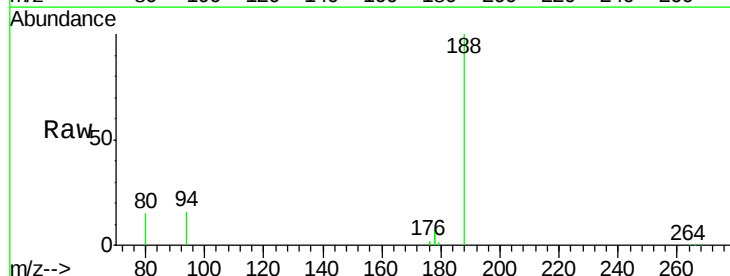
Tgt Ion:188 Resp: 128883

Ion Ratio Lower Upper

188 100

94 15.9 11.8 17.8

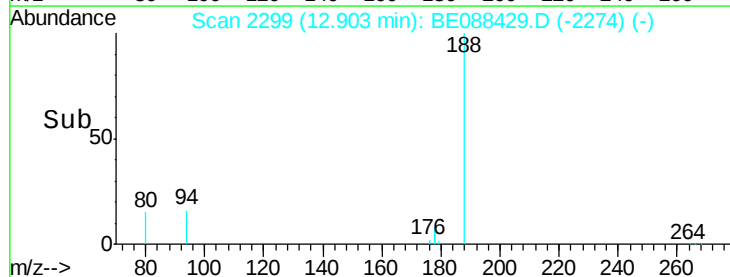
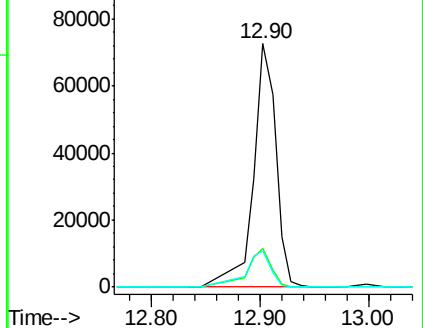
80 14.7 10.9 16.3

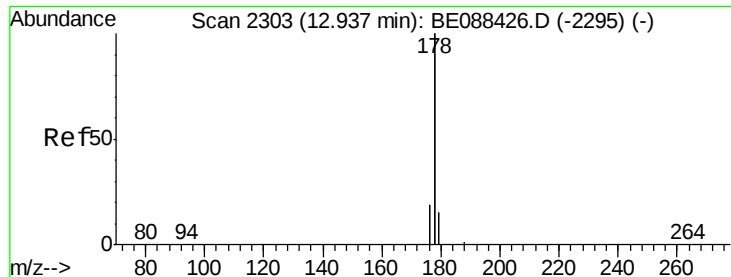


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

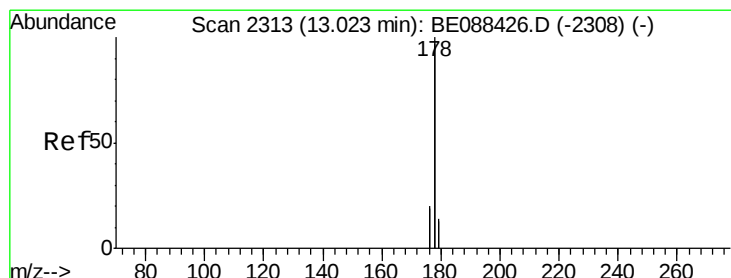
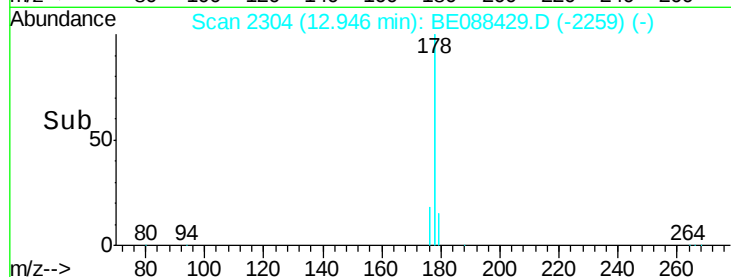
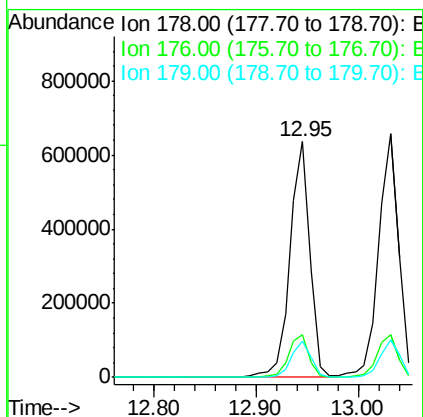
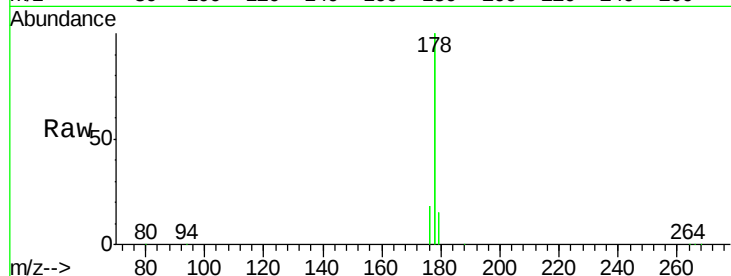




#13
Phenanthrene
Concen: 8.67 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088429.D
Acq: 31 Oct 2014 18:42

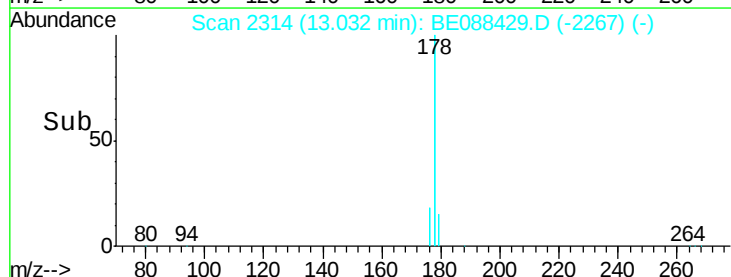
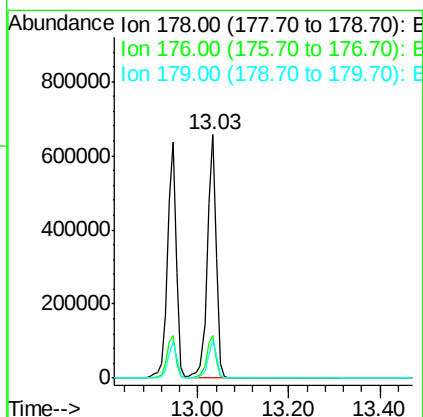
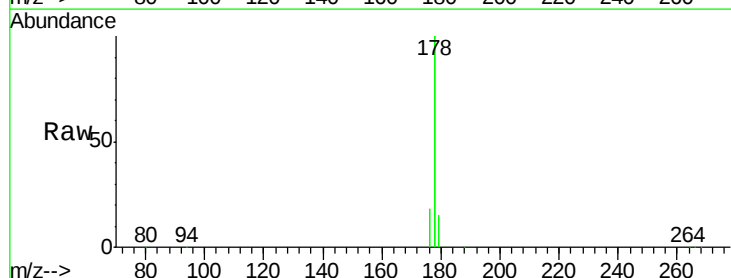
Instrument :
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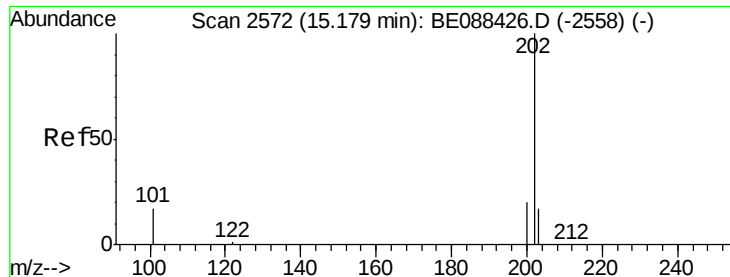
Tgt Ion:178 Resp: 1133815
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.4 12.8 19.2



#14
Anthracene
Concen: 9.27 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088429.D
Acq: 31 Oct 2014 18:42

Tgt Ion:178 Resp: 884584
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.4
179 15.4 12.5 18.7

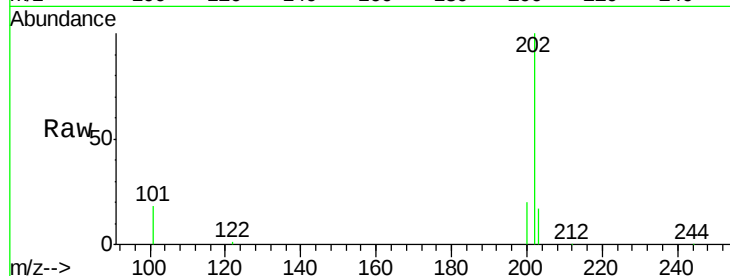




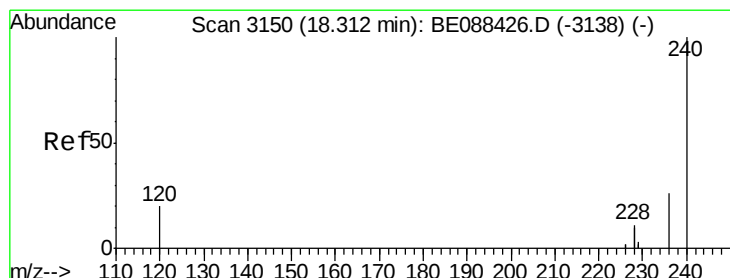
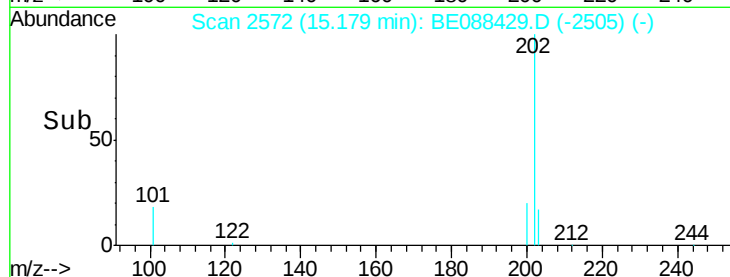
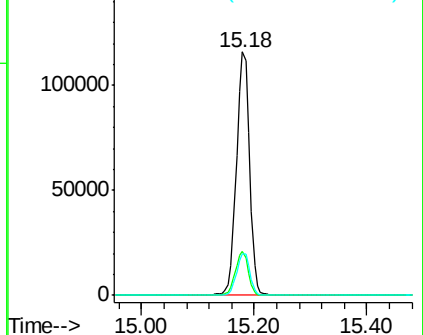
#15
 Fluoranthene
 Concen: 9.89 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088429.D
 Acq: 31 Oct 2014 18:42

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion: 202 Resp: 188230
 Ion Ratio Lower Upper
 202 100
 101 17.6 14.3 21.5
 203 17.3 13.6 20.4

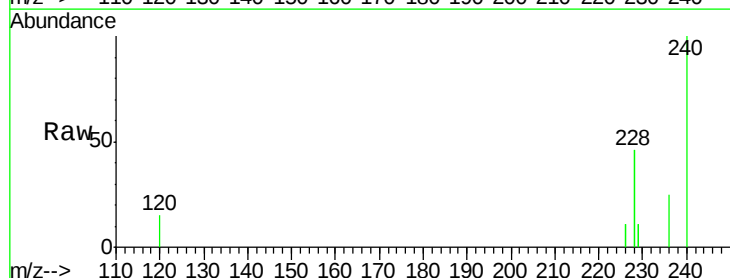


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

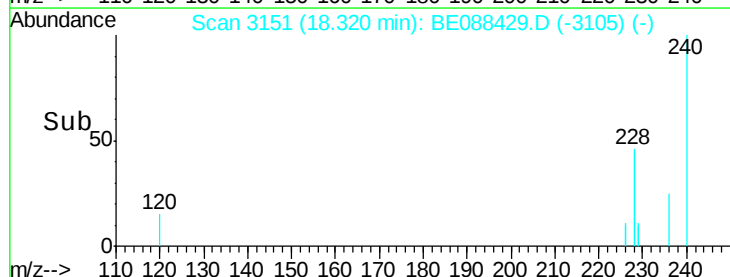
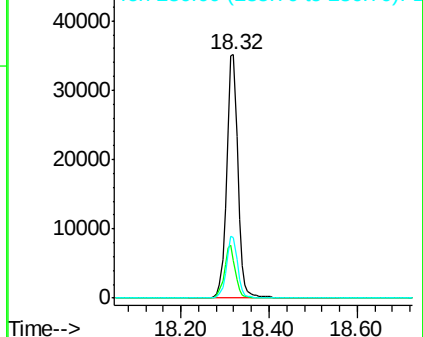


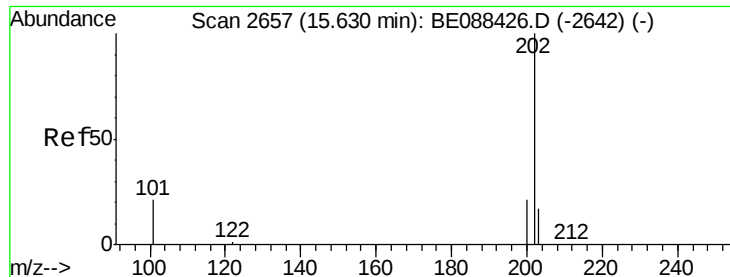
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.32 min Scan# 3151
 Delta R.T. 0.01 min
 Lab File: BE088429.D
 Acq: 31 Oct 2014 18:42

Tgt Ion: 240 Resp: 61468
 Ion Ratio Lower Upper
 240 100
 120 15.2 16.4 24.6#
 236 24.8 20.5 30.7



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

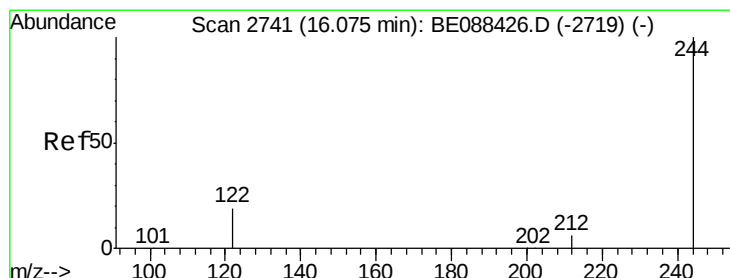
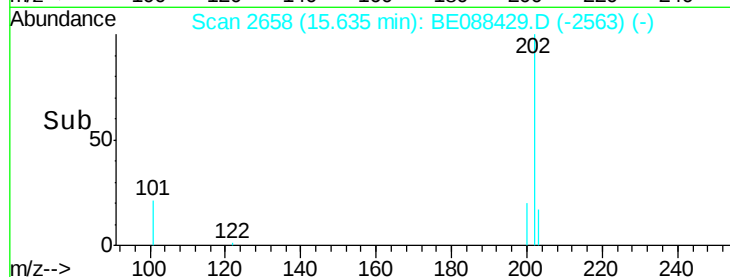
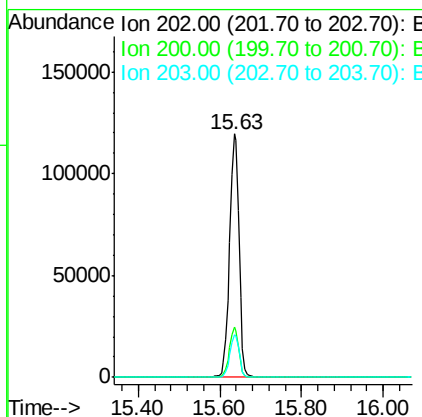
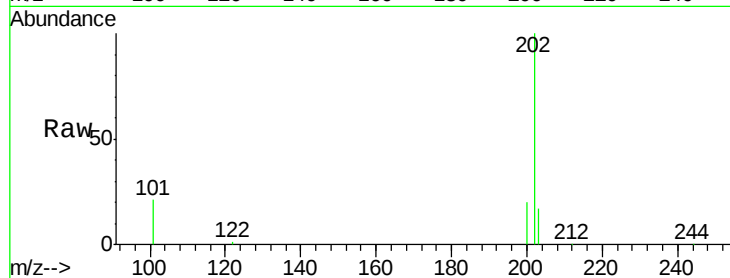




#17
 Pyrene
 Concen: 9.71 ng
 RT: 15.63 min Scan# 2658
 Delta R.T. 0.01 min
 Lab File: BE088429.D
 Acq: 31 Oct 2014 18:42

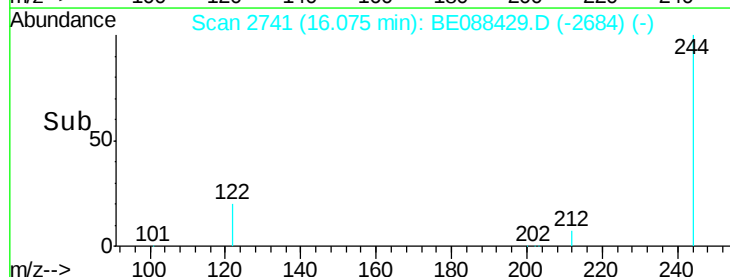
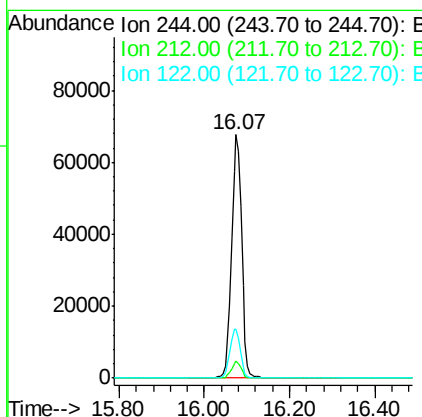
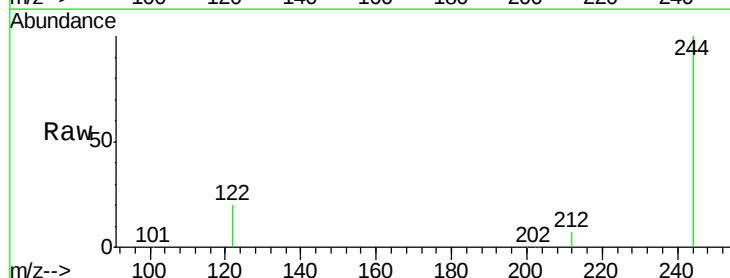
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Tgt Ion: 202 Resp: 195623
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 17.4 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.93 ng
 RT: 16.07 min Scan# 2741
 Delta R.T. -0.00 min
 Lab File: BE088429.D
 Acq: 31 Oct 2014 18:42

Tgt Ion: 244 Resp: 112326
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 20.4 15.6 23.4





#19

Benzo(a)anthracene

Concen: 9.97 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

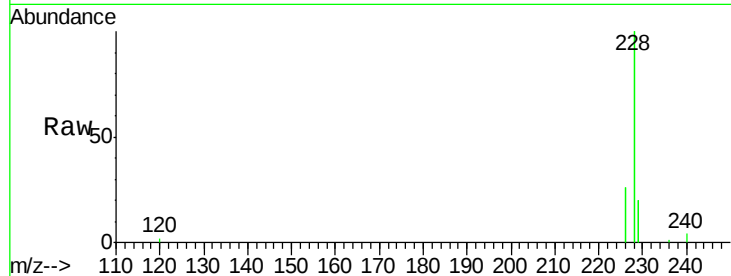
Tgt Ion:228 Resp: 577682

Ion Ratio Lower Upper

228 100

226 25.9 19.8 29.6

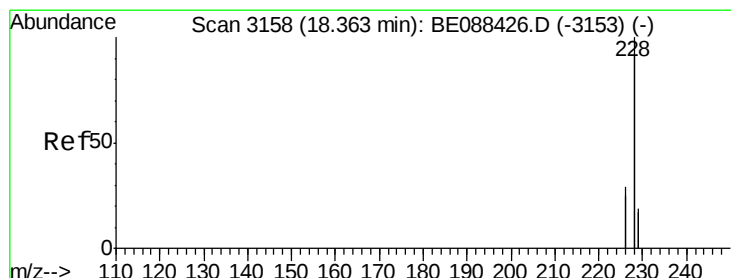
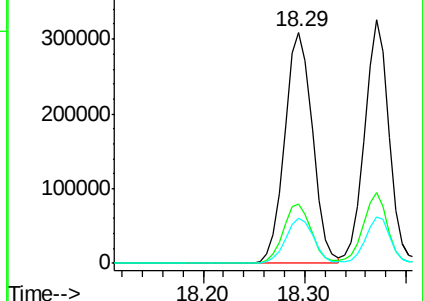
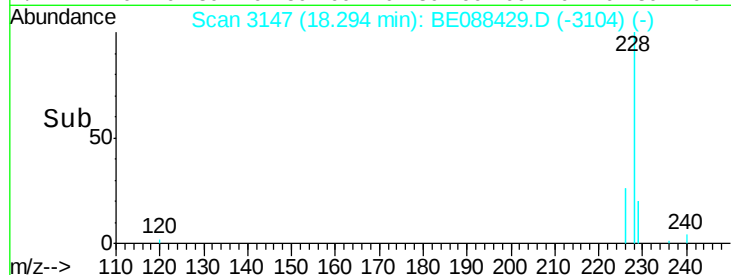
229 19.8 16.0 24.0



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



#20

Chrysene

Concen: 9.78 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

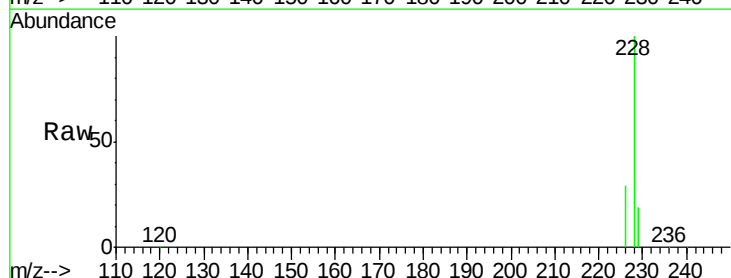
Tgt Ion:228 Resp: 557592

Ion Ratio Lower Upper

228 100

226 29.1 23.6 35.4

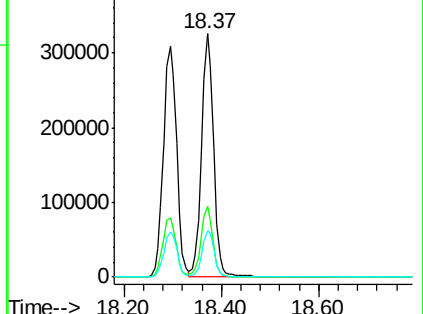
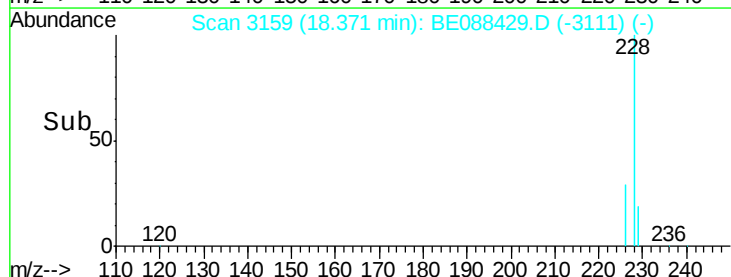
229 19.1 15.4 23.2

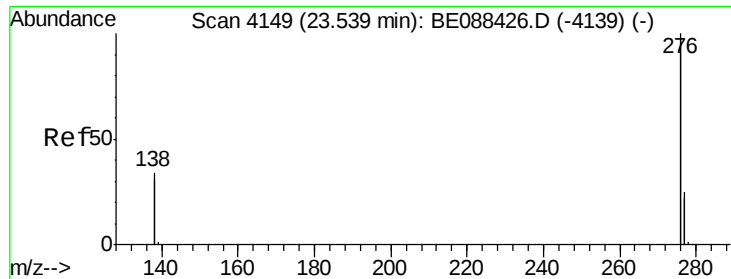


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 8.18 ng

RT: 23.55 min Scan# 4151

Delta R.T. 0.01 min

Lab File: BE088429.D

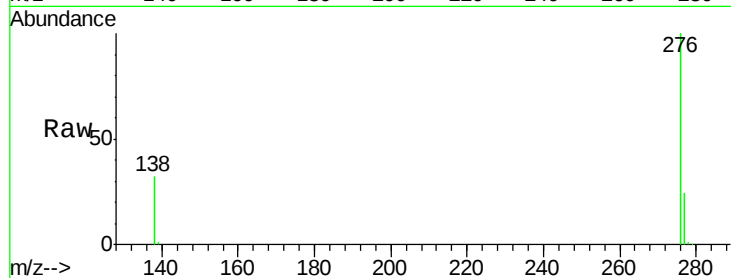
Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010



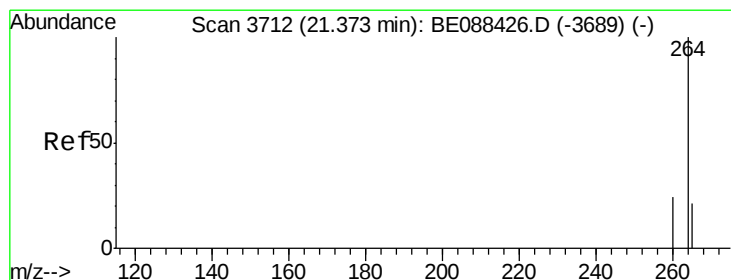
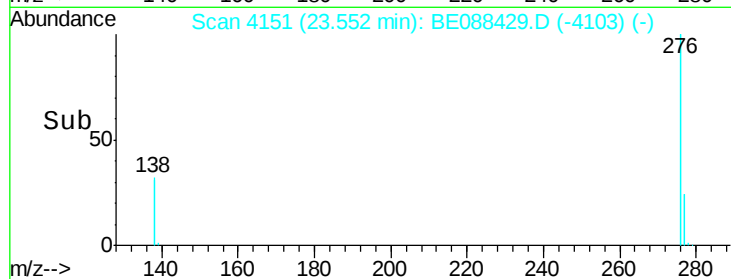
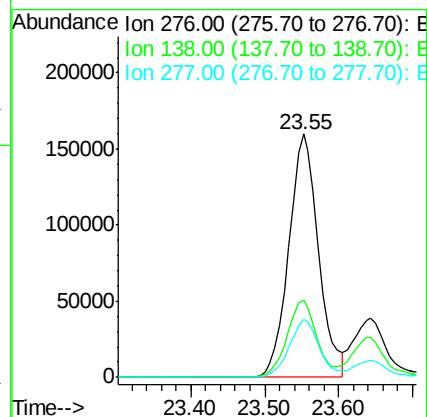
Tgt Ion: 276 Resp: 442506

Ion Ratio Lower Upper

276 100

138 31.9 20.2 30.2#

277 23.8 14.8 22.2#



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.37 min Scan# 3712

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

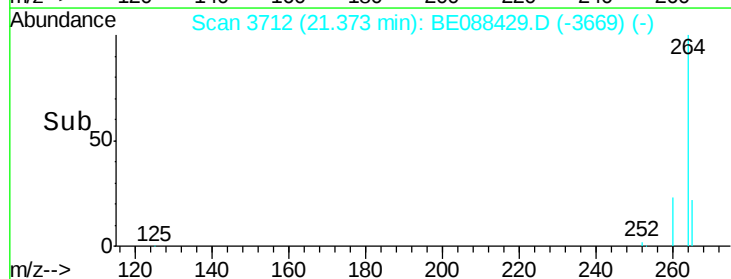
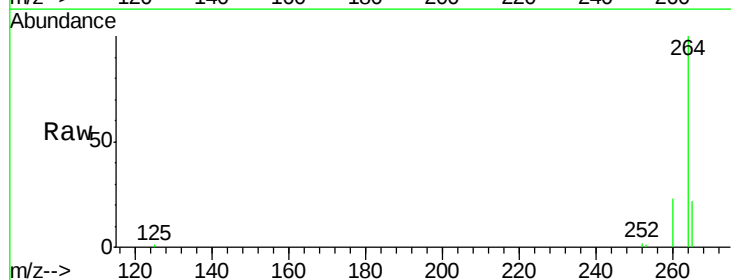
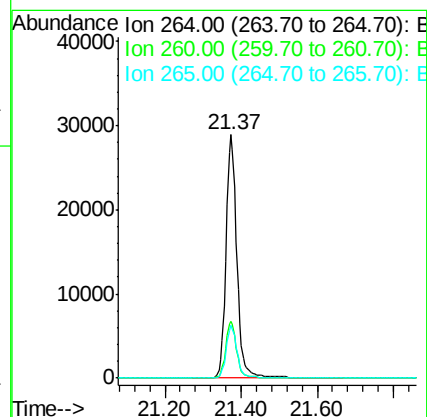
Tgt Ion: 264 Resp: 56174

Ion Ratio Lower Upper

264 100

260 23.5 18.9 28.3

265 21.7 17.2 25.8





#23

Benzo(b)fluoranthene

Concen: 10.42 ng

RT: 20.62 min Scan# 3546

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

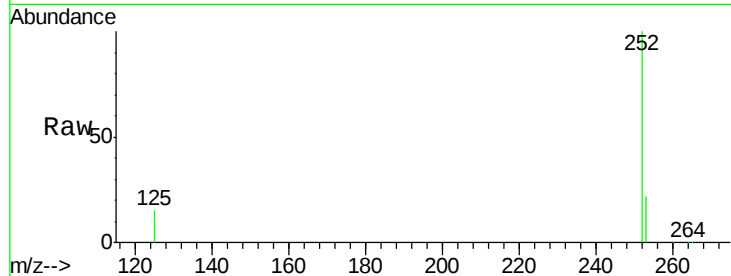
Tgt Ion:252 Resp: 127631

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

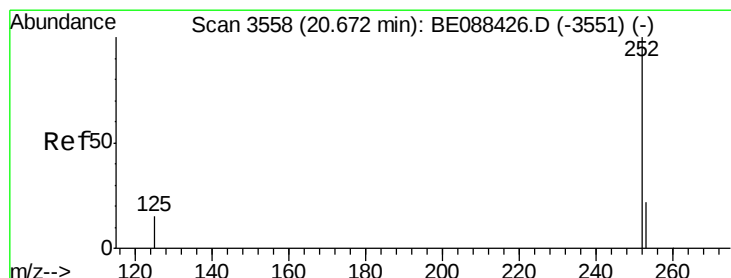
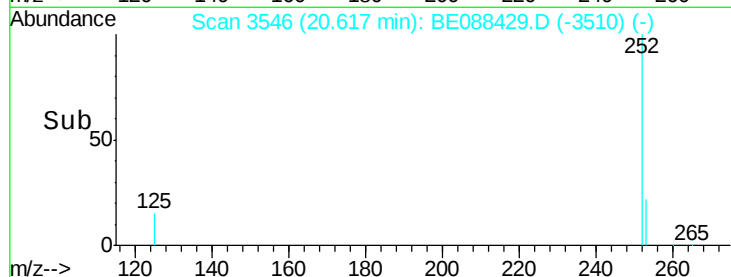
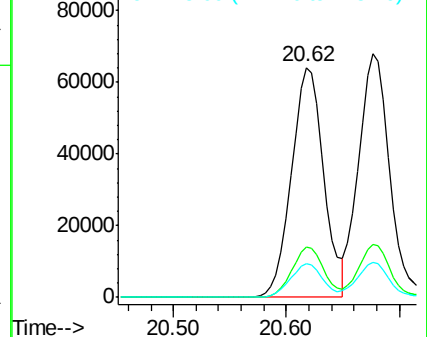
125 14.7 12.3 18.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 9.85 ng

RT: 20.68 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

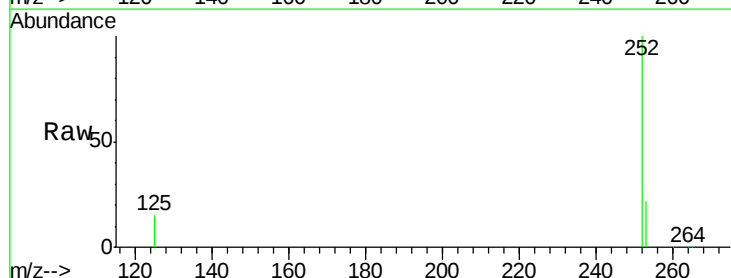
Tgt Ion:252 Resp: 133892

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

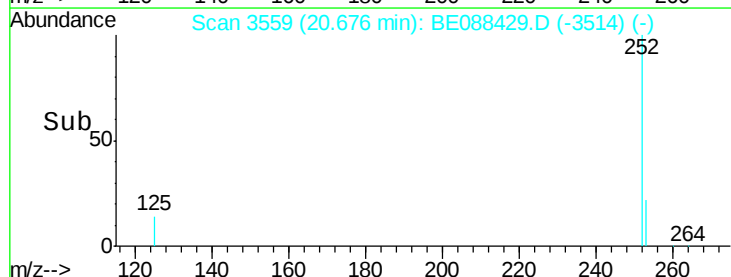
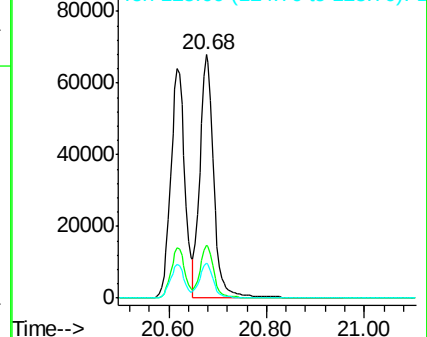
125 14.6 12.2 18.4



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





#25

Benzo(a)pyrene

Concen: 10.45 ng

RT: 21.26 min Scan# 3687

Delta R.T. 0.00 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

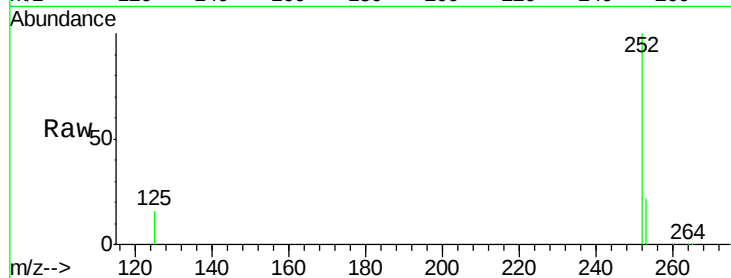
Tgt Ion:252 Resp: 122868

Ion Ratio Lower Upper

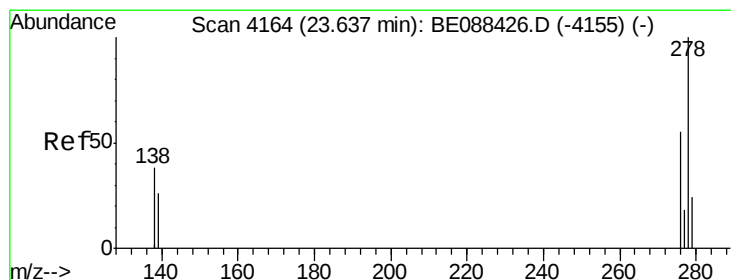
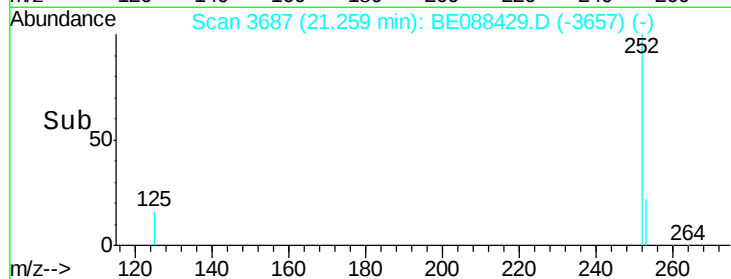
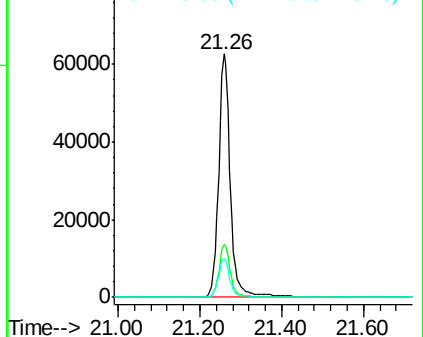
252 100

253 21.6 18.2 27.4

125 16.0 13.7 20.5



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



#26

Dibenzo(a,h)anthracene

Concen: 10.36 ng

RT: 23.64 min Scan# 4165

Delta R.T. 0.01 min

Lab File: BE088429.D

Acq: 31 Oct 2014 18:42

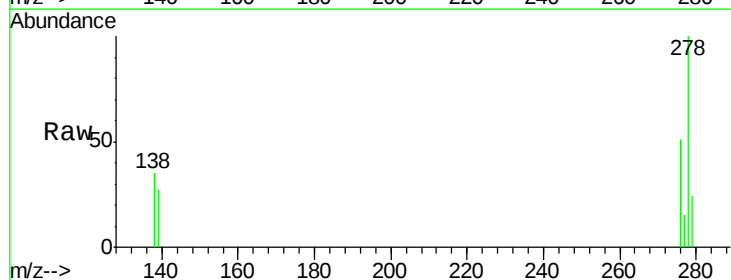
Tgt Ion:278 Resp: 113301

Ion Ratio Lower Upper

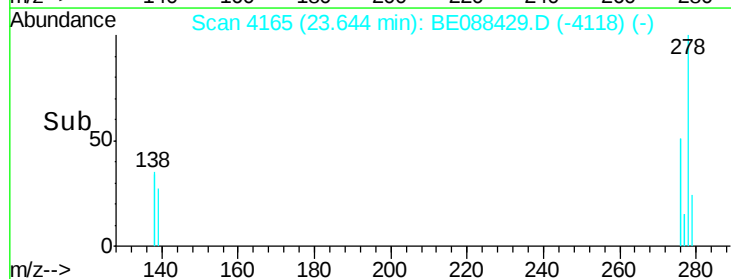
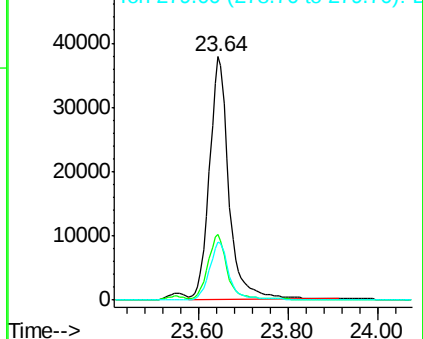
278 100

139 26.9 22.1 33.1

279 23.9 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





#27

Benzo(g,h,i)perylene

Concen: 9.87 ng

RT: 24.18 min Scan# 4247

Delta R.T. 0.01 min

Lab File: BE088429.D

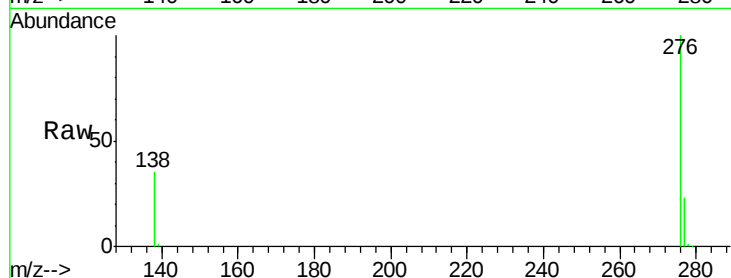
Acq: 31 Oct 2014 18:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC010



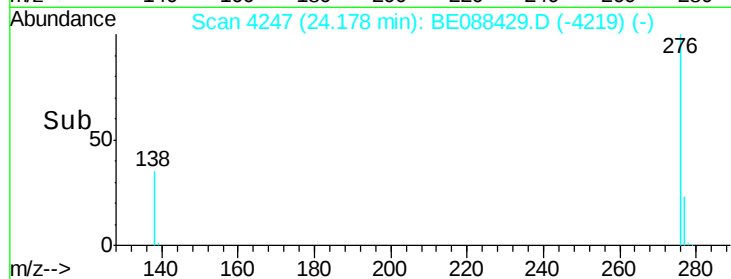
Tgt Ion:276 Resp: 497946

Ion Ratio Lower Upper

276 100

277 23.5 19.8 29.6

138 34.6 29.3 43.9



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

