

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088423.D
 Acq On : 31 Oct 2014 15:19
 Operator : TP/JJ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 01 00:24:36 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	37110	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	141749	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	68025	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	128897	5.00	ng	0.00
16) Chrysene-d12	18.31	240	60798	5.00	ng	0.00
22) Perylene-d12	21.37	264	52011	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.77	82	2218	0.21	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	4233	0.22	ng	0.00
18) Terphenyl-d14	16.07	244	2461	0.22	ng	0.00

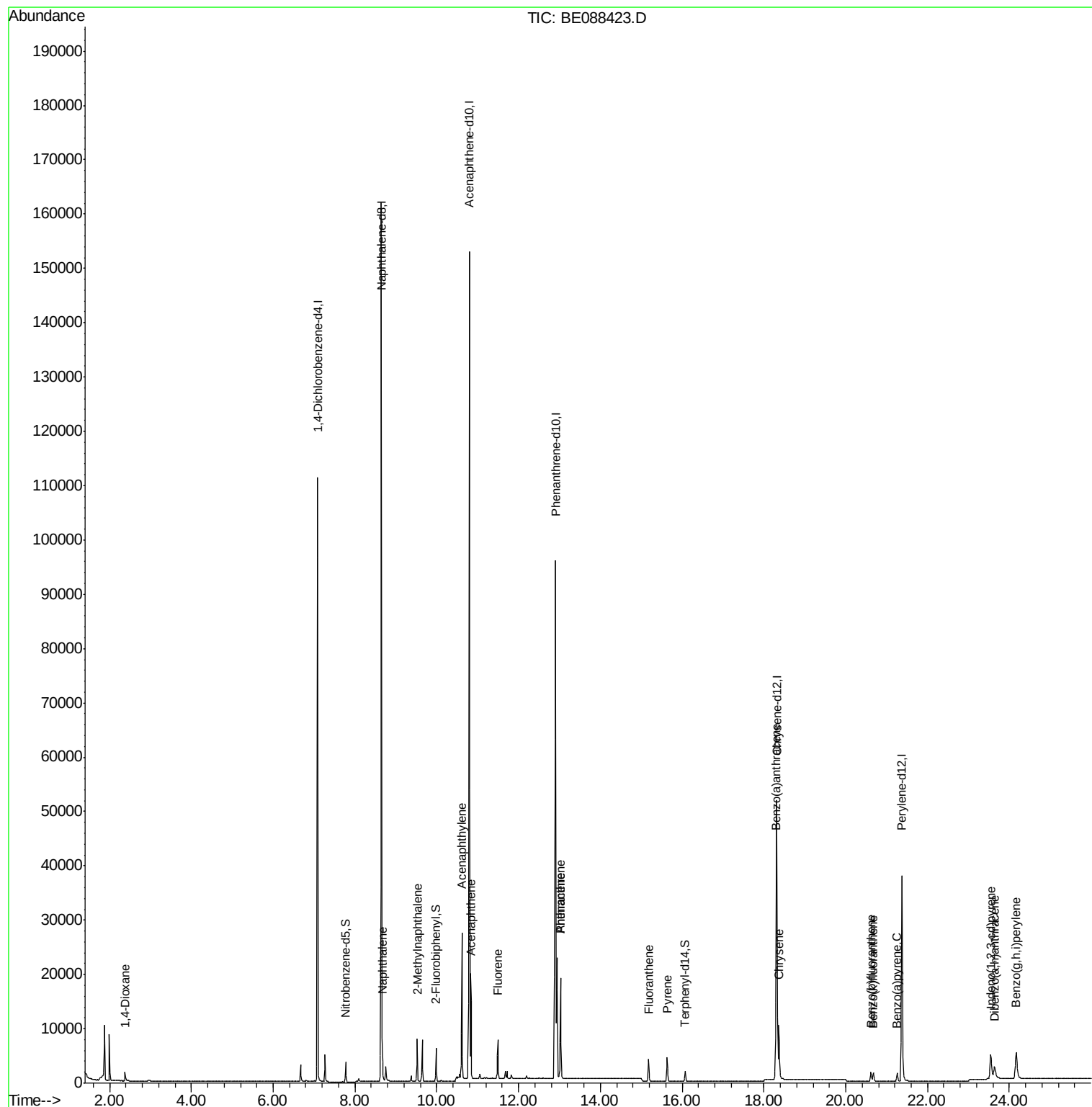
Target Compounds						Qvalue
2) 1,4-Dioxane	2.38	88	1052	0.22	ng	99
5) Naphthalene	8.67	128	6661	0.22	ng	99
6) 2-Methylnaphthalene	9.53	142	4062	0.22	ng	98
9) Acenaphthylene	10.62	152	25060	0.22	ng	99
10) Acenaphthene	10.84	154	3745	0.23	ng	95
11) Fluorene	11.50	166	3822	0.22	ng	99
13) Phenanthrene	13.02	178	21005	0.16	ng	98
14) Anthracene	13.02	178	21005	0.22	ng	97
15) Fluoranthene	15.18	202	4114	0.22	ng	100
17) Pyrene	15.63	202	4359	0.22	ng	100
19) Benzo(a)anthracene	18.29	228	12597	0.22	ng	97
20) Chrysene	18.36	228	12253	0.22	ng	97
21) Indeno(1,2,3-cd)pyrene	23.55	276	8717	0.16	ng	# 87
23) Benzo(b)fluoranthene	20.61	252	2448	0.22	ng	# 94
24) Benzo(k)fluoranthene	20.67	252	2683	0.21	ng	# 93
25) Benzo(a)pyrene	21.26	252	2341	0.21	ng	95
26) Dibenzo(a,h)anthracene	23.64	278	2194	0.22	ng	# 90
27) Benzo(g,h,i)perylene	24.17	276	10259	0.22	ng	94

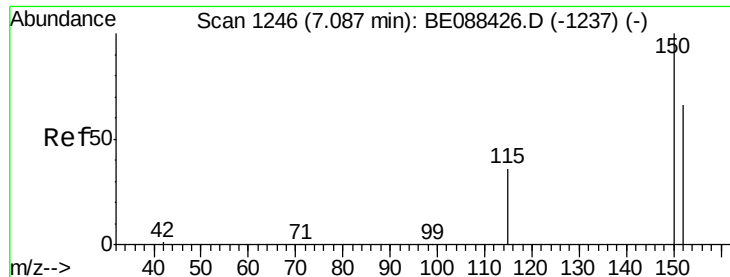
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

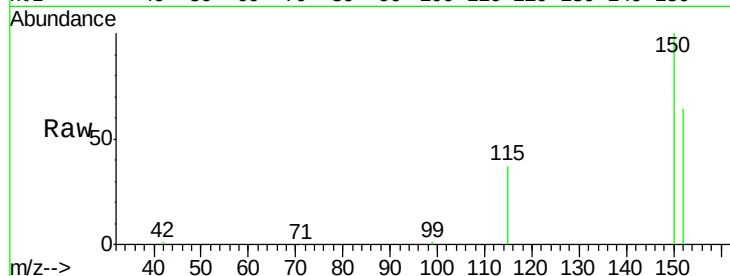
Tgt Ion: 152 Resp: 37110

Ion Ratio Lower Upper

152 100

150 155.3 121.8 182.8

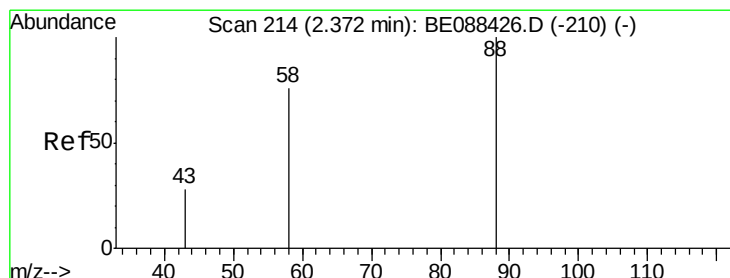
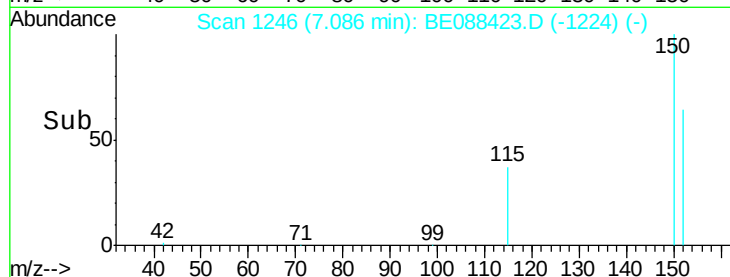
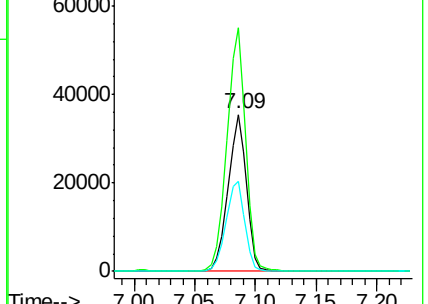
115 57.0 43.9 65.9



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: 0.22 ng

RT: 2.38 min Scan# 216

Delta R.T. 0.01 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

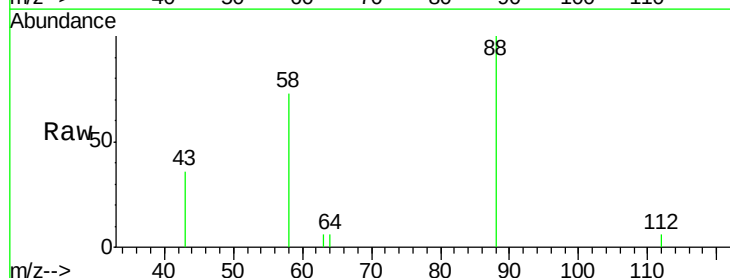
Tgt Ion: 88 Resp: 1052

Ion Ratio Lower Upper

88 100

58 74.9 59.1 88.7

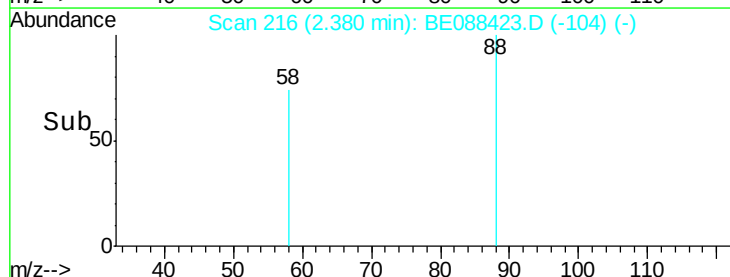
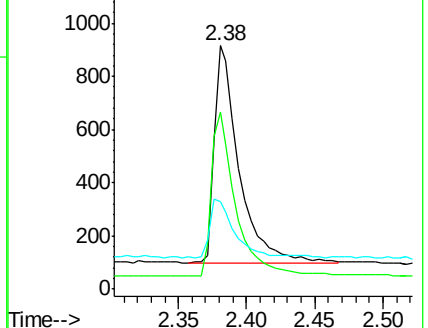
43 27.9 21.9 32.9

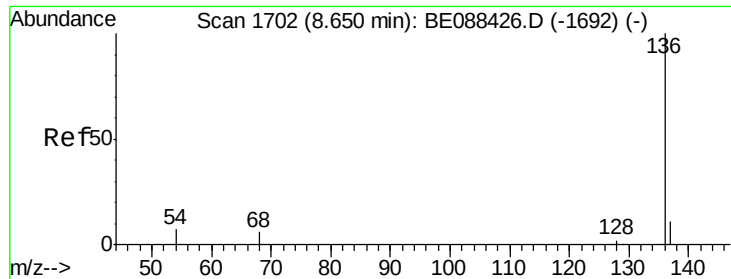


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

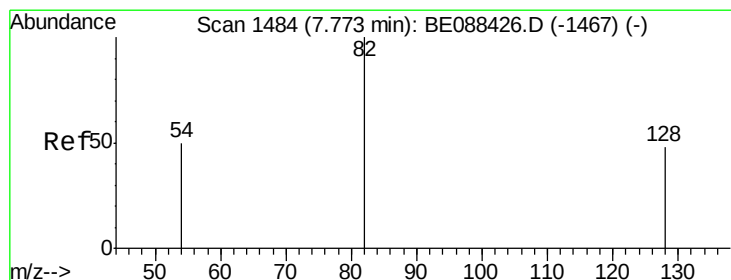
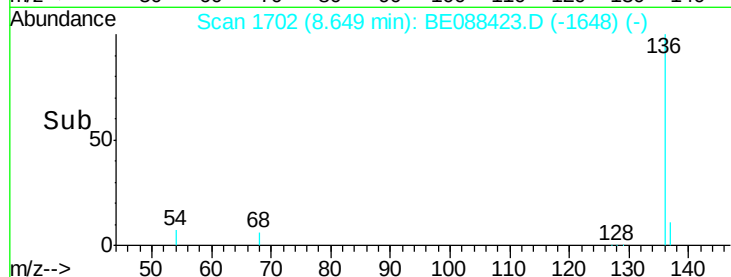
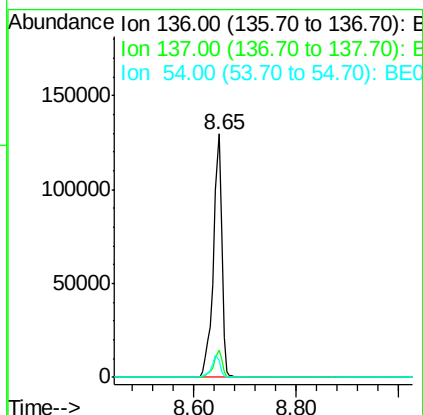
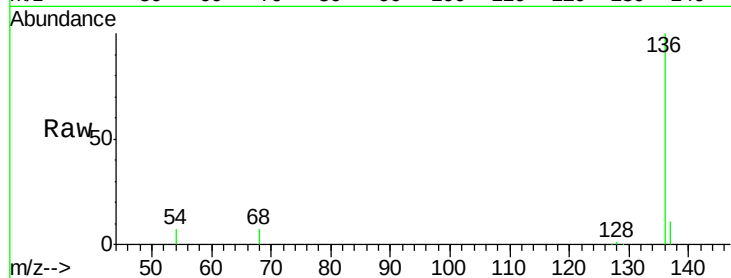




#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088423.D
Acq: 31 Oct 2014 15:19

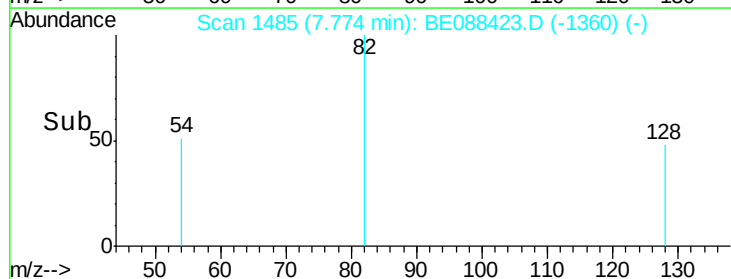
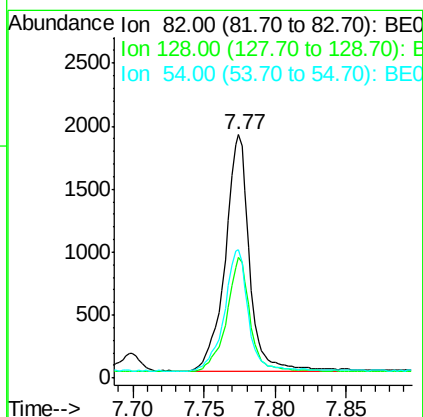
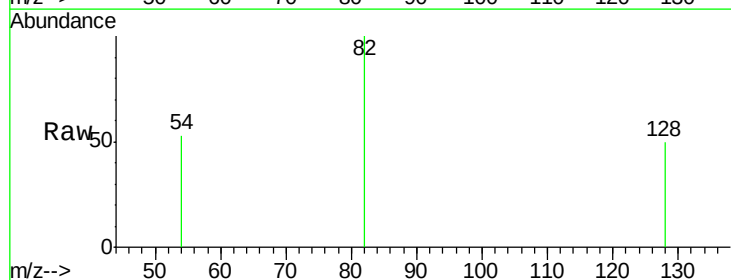
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

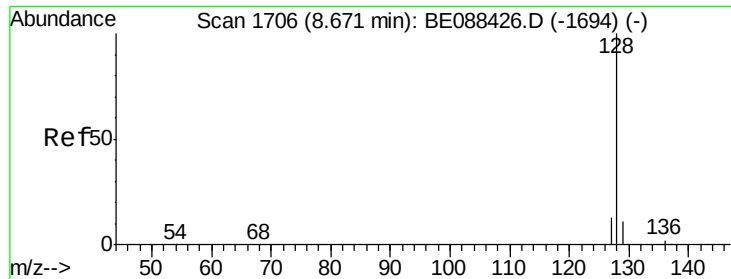
Tgt Ion: 136 Resp: 141749
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.8 5.3 7.9



#4
Nitrobenzene-d5
Concen: 0.21 ng
RT: 7.77 min Scan# 1485
Delta R.T. 0.00 min
Lab File: BE088423.D
Acq: 31 Oct 2014 15:19

Tgt Ion: 82 Resp: 2218
Ion Ratio Lower Upper
82 100
128 49.6 38.4 57.6
54 52.5 40.2 60.2





#5

Naphthalene

Concen: 0.22 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

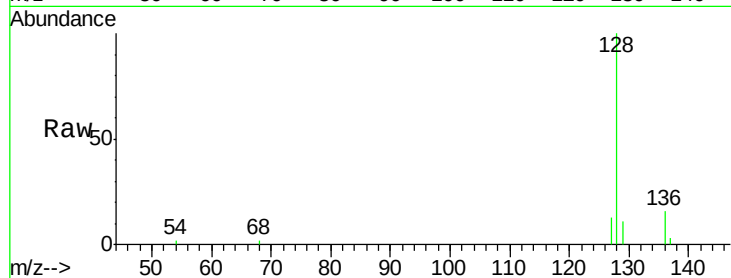
Tgt Ion:128 Resp: 6661

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

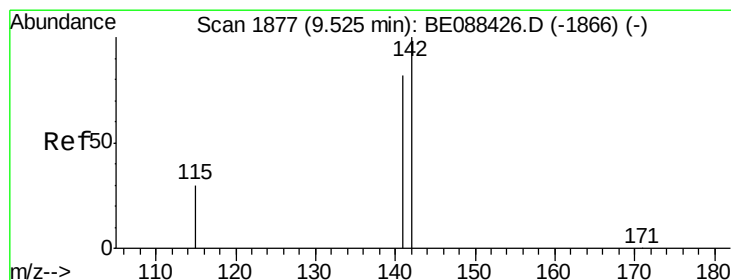
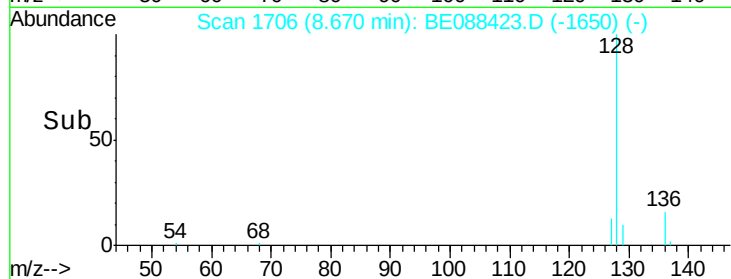
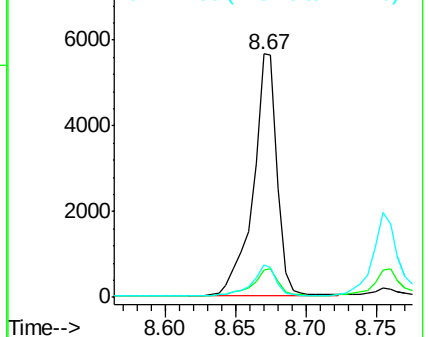
127 13.2 10.1 15.1



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: 0.22 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

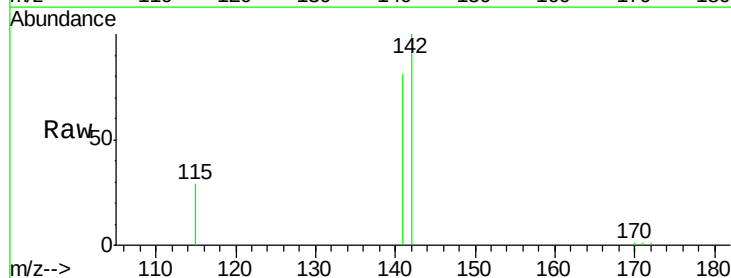
Tgt Ion:142 Resp: 4062

Ion Ratio Lower Upper

142 100

141 80.7 65.8 98.8

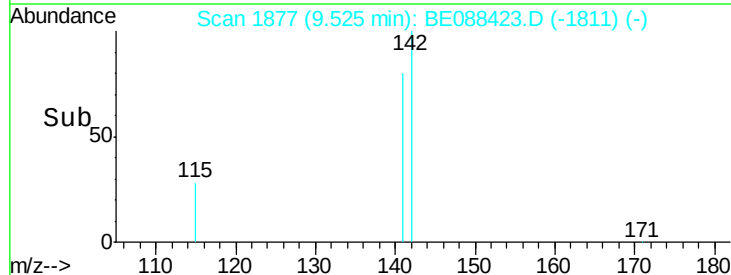
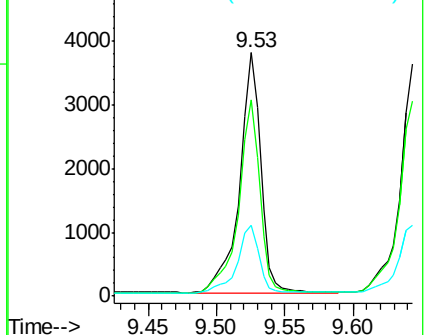
115 29.2 24.2 36.4

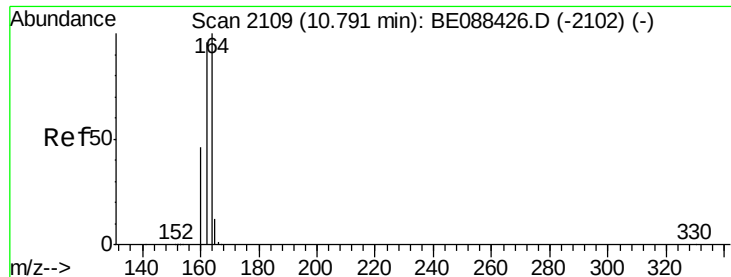


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

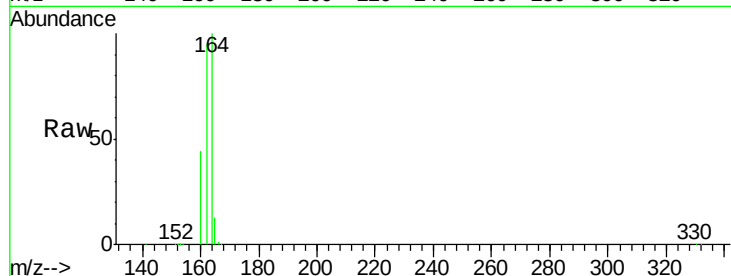
Tgt Ion:164 Resp: 68025

Ion Ratio Lower Upper

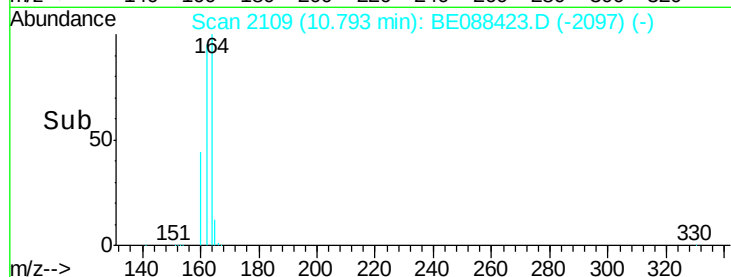
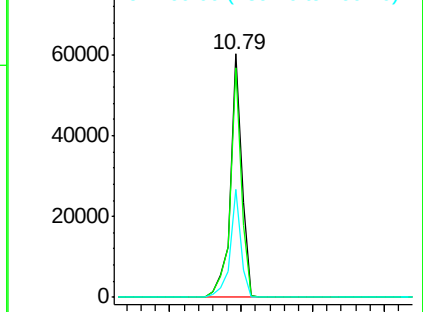
164 100

162 94.5 77.0 115.4

160 44.3 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: 0.22 ng

RT: 9.98 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

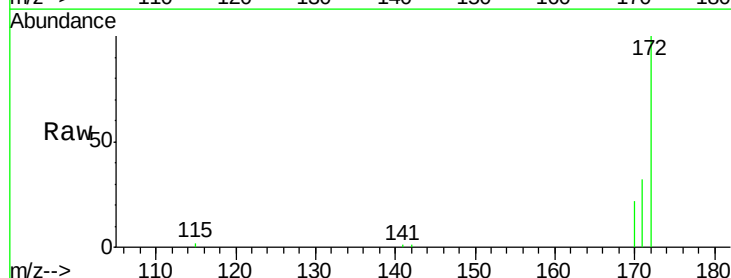
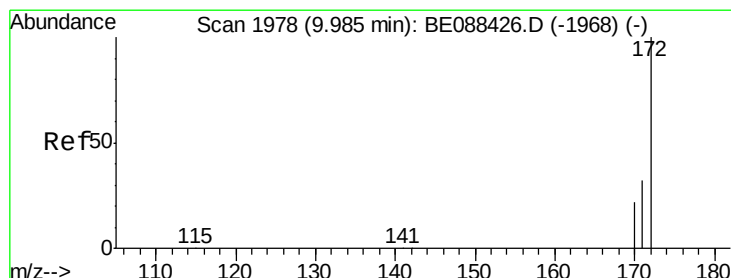
Tgt Ion:172 Resp: 4233

Ion Ratio Lower Upper

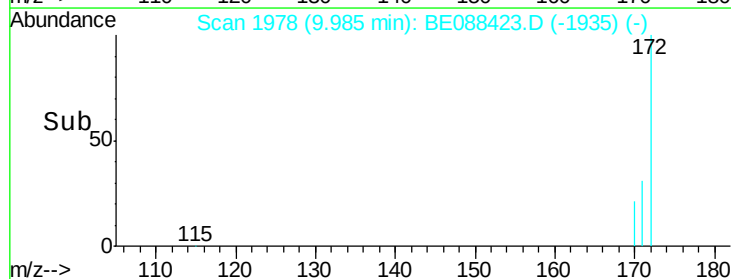
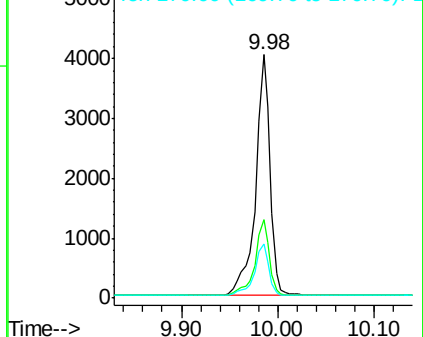
172 100

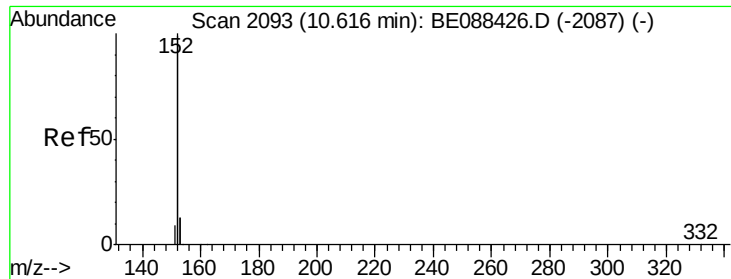
171 32.2 26.0 39.0

170 22.3 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: 0.22 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

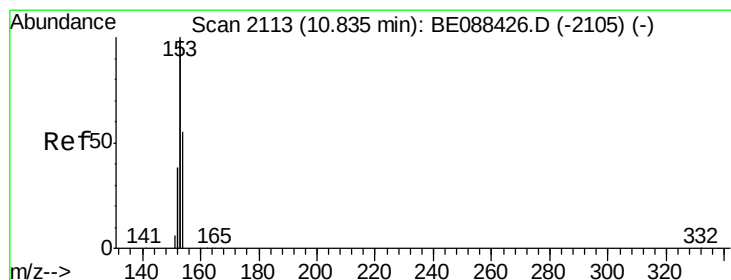
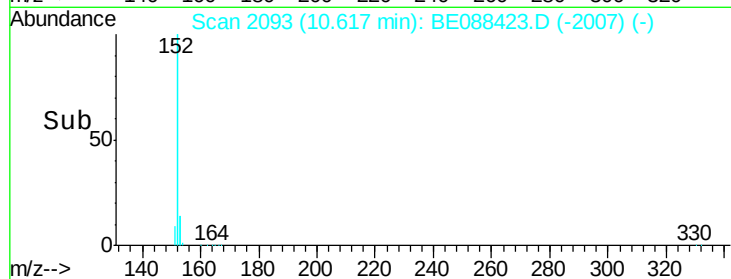
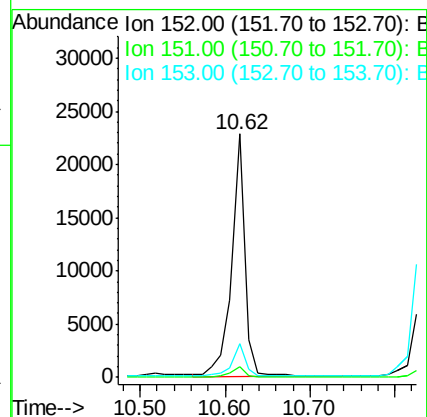
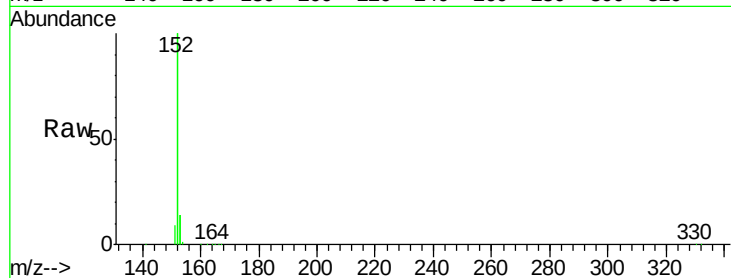
Tgt Ion:152 Resp: 25060

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

153 13.4 10.5 15.7



#10

Acenaphthene

Concen: 0.23 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

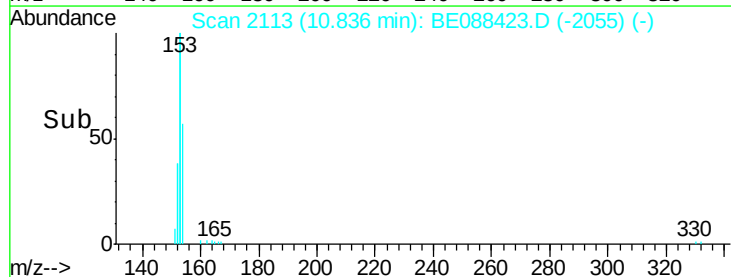
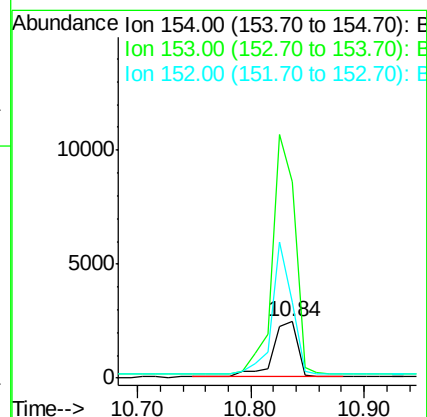
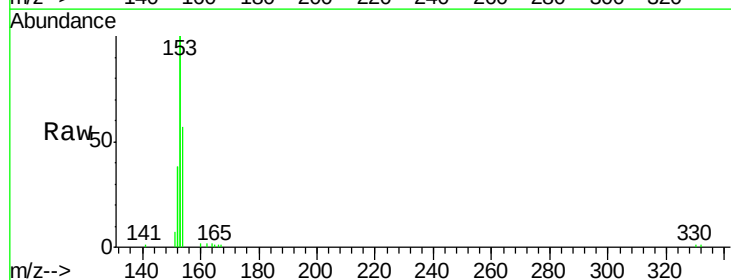
Tgt Ion:154 Resp: 3745

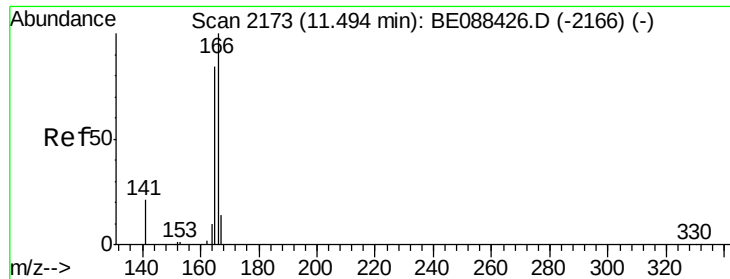
Ion Ratio Lower Upper

154 100

153 387.7 324.3 486.5

152 194.3 154.9 232.3

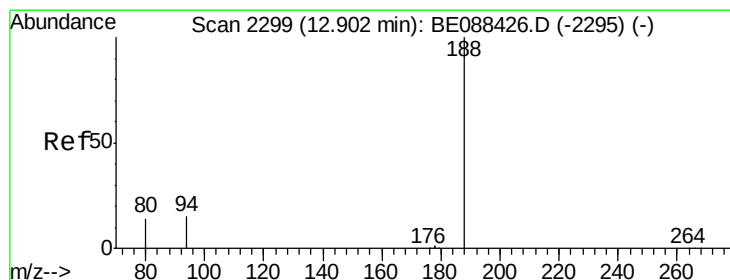
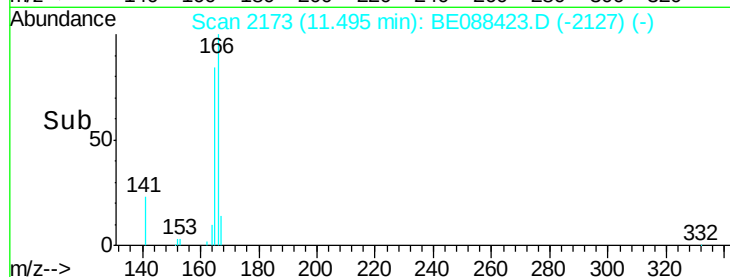
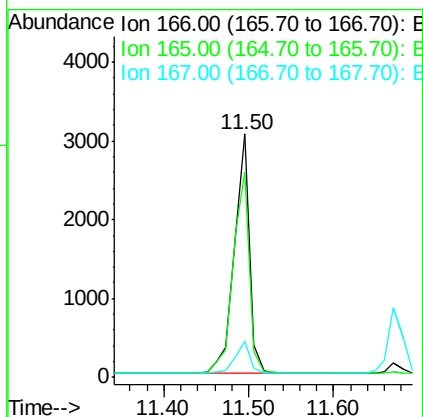
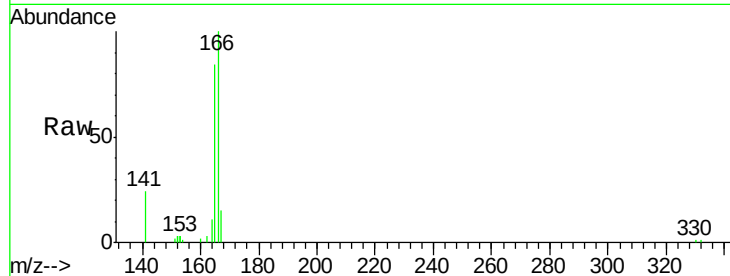




#11
 Fluorene
 Concen: 0.22 ng
 RT: 11.50 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

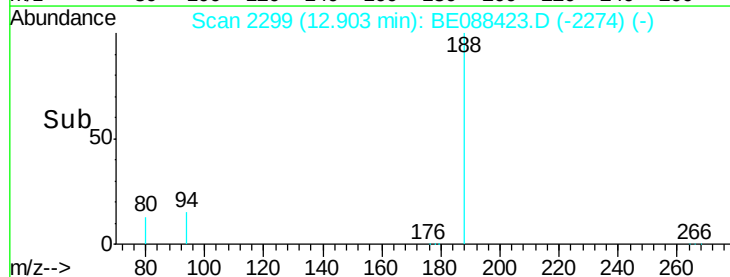
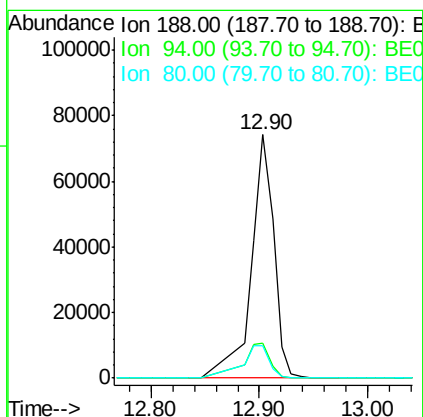
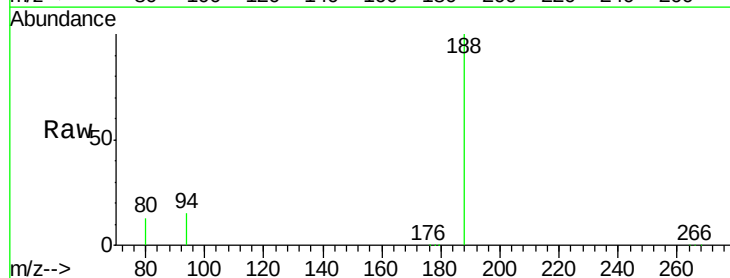
Instrument :
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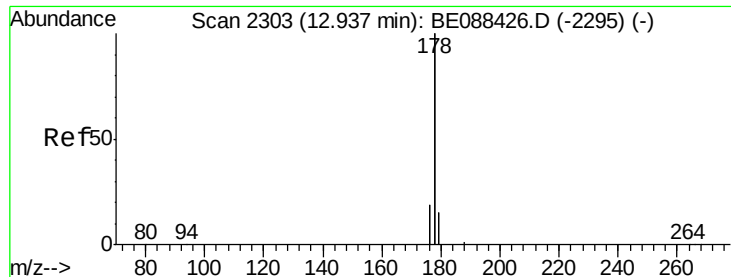
Tgt Ion:166 Resp: 3822
 Ion Ratio Lower Upper
 166 100
 165 89.9 71.3 106.9
 167 13.6 10.7 16.1



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.90 min Scan# 2299
 Delta R.T. 0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

Tgt Ion:188 Resp: 128897
 Ion Ratio Lower Upper
 188 100
 94 14.5 11.8 17.8
 80 13.2 10.9 16.3





#13

Phenanthrene

Concen: 0.16 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.09 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

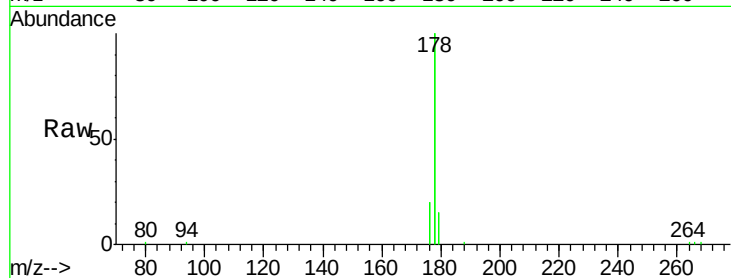
Tgt Ion:178 Resp: 21005

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

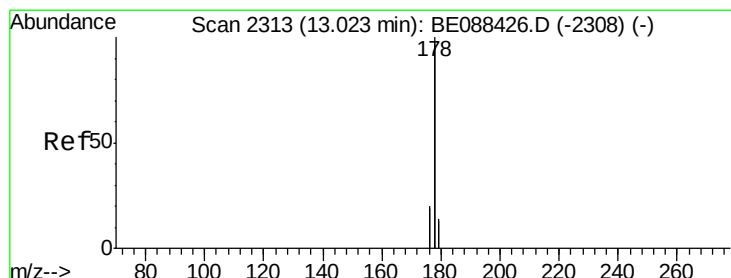
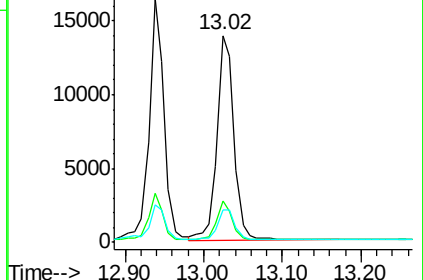
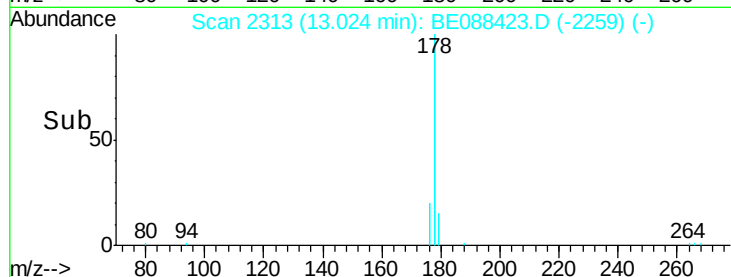
179 17.3 12.8 19.2



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: 0.22 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

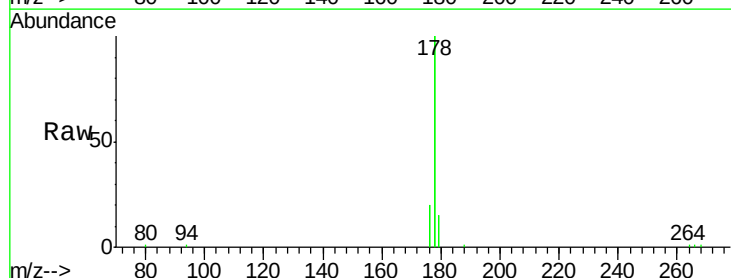
Tgt Ion:178 Resp: 21005

Ion Ratio Lower Upper

178 100

176 19.6 15.0 22.4

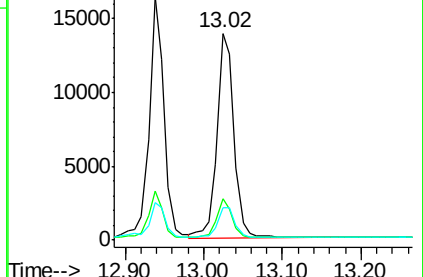
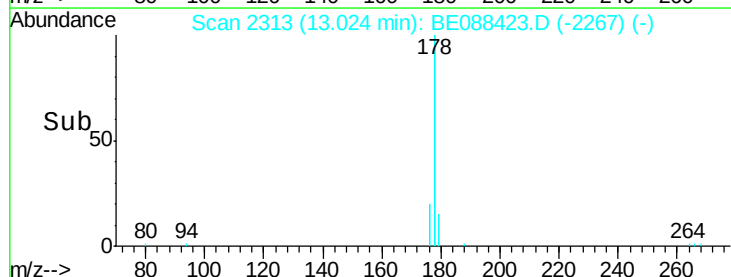
179 17.3 12.5 18.7

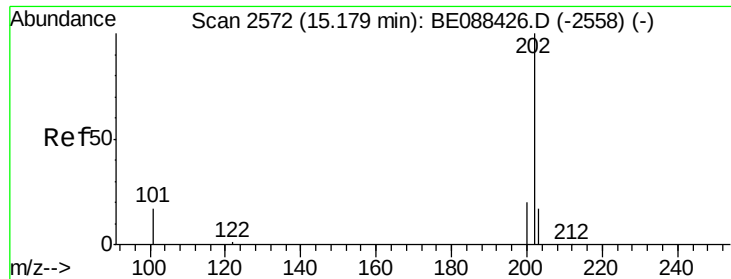


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

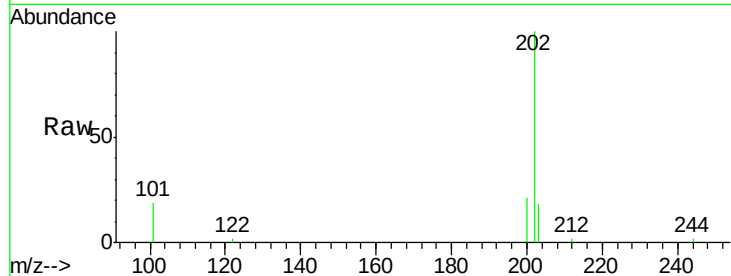




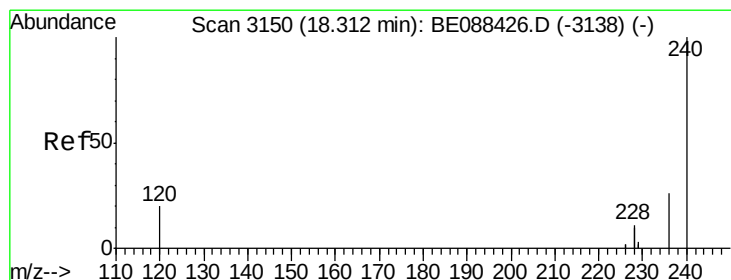
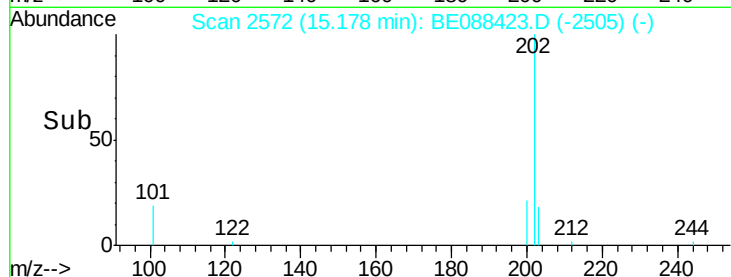
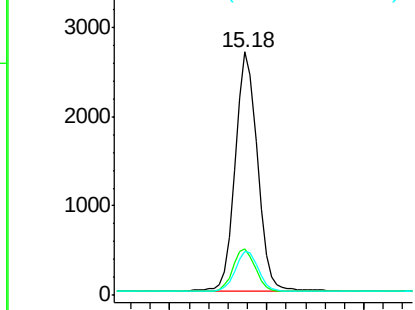
#15
 Fluoranthene
 Concen: 0.22 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:202 Resp: 4114
 Ion Ratio Lower Upper
 202 100
 101 17.8 14.3 21.5
 203 17.0 13.6 20.4

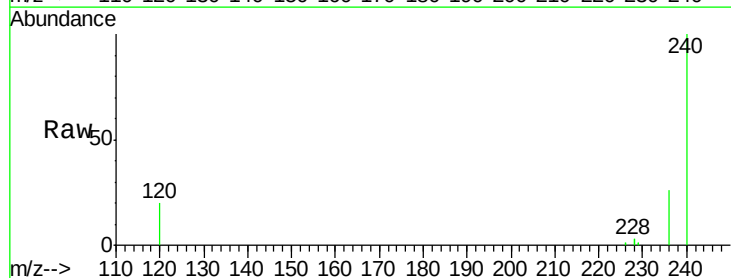


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

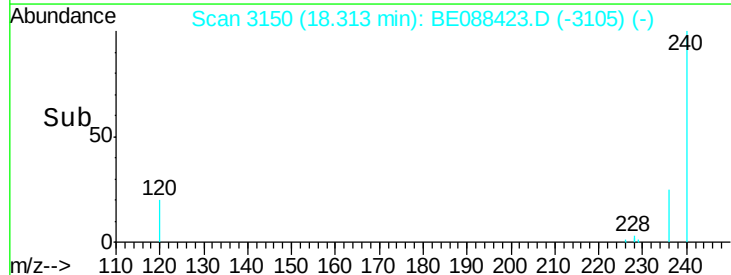
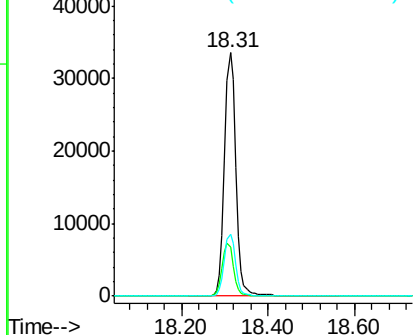


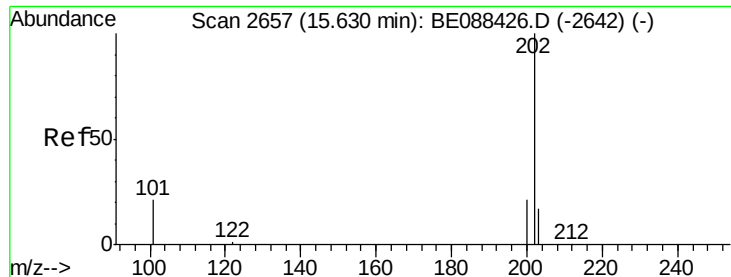
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

Tgt Ion:240 Resp: 60798
 Ion Ratio Lower Upper
 240 100
 120 20.3 16.4 24.6
 236 25.5 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

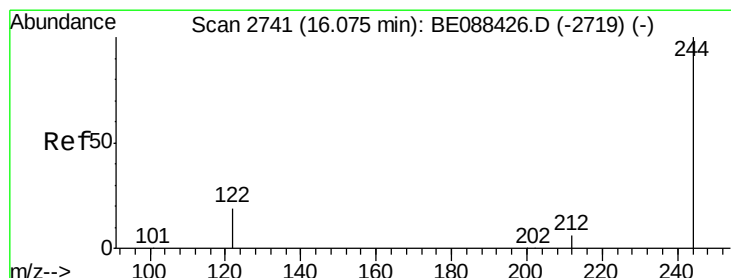
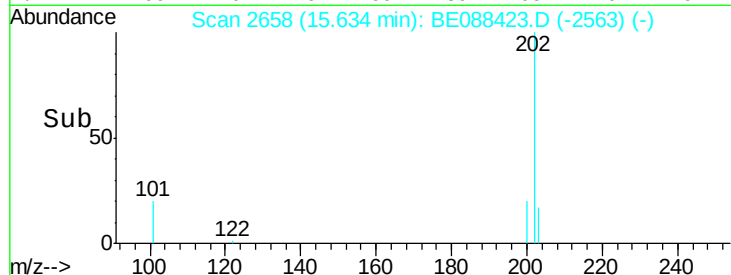
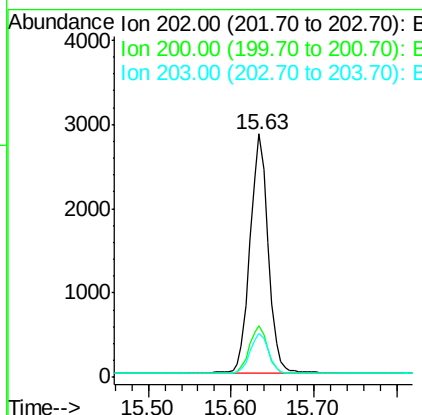
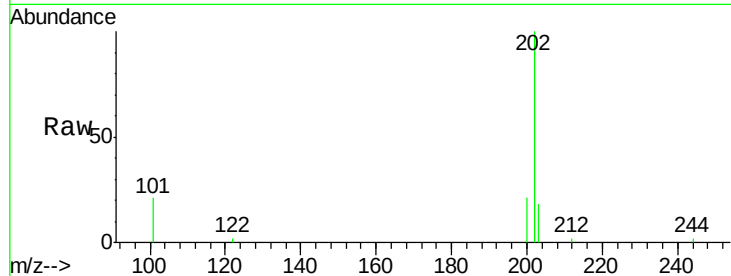




#17
 Pyrene
 Concen: 0.22 ng
 RT: 15.63 min Scan# 2658
 Delta R.T. 0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

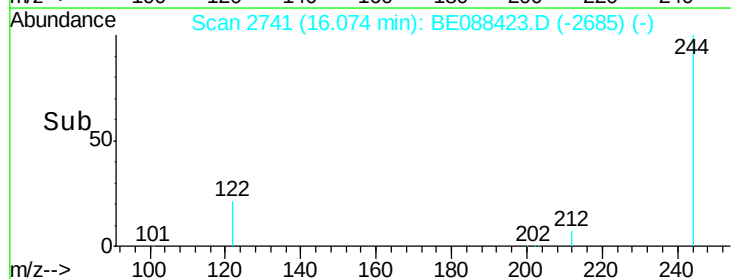
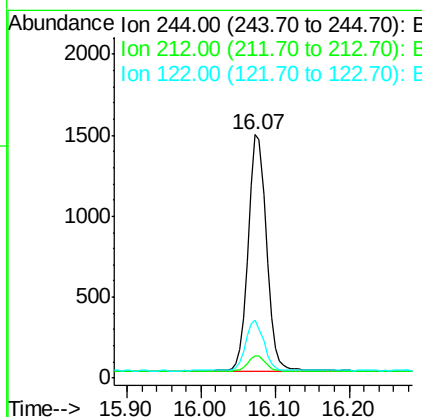
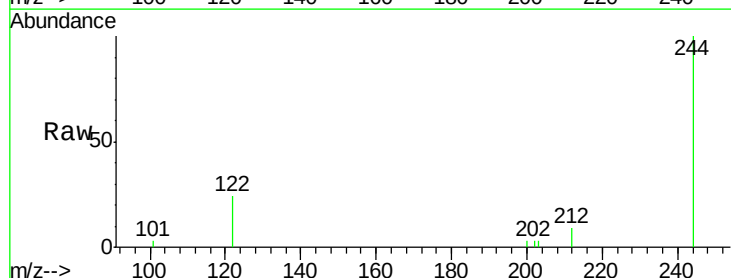
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

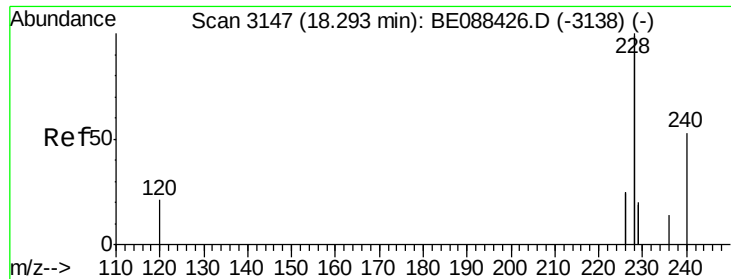
Tgt Ion: 202 Resp: 4359
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 17.0 13.8 20.8



#18
 Terphenyl-d14
 Concen: 0.22 ng
 RT: 16.07 min Scan# 2741
 Delta R.T. -0.00 min
 Lab File: BE088423.D
 Acq: 31 Oct 2014 15:19

Tgt Ion: 244 Resp: 2461
 Ion Ratio Lower Upper
 244 100
 212 9.4 5.5 8.3#
 122 23.7 15.6 23.4#





#19

Benzo(a)anthracene

Concen: 0.22 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

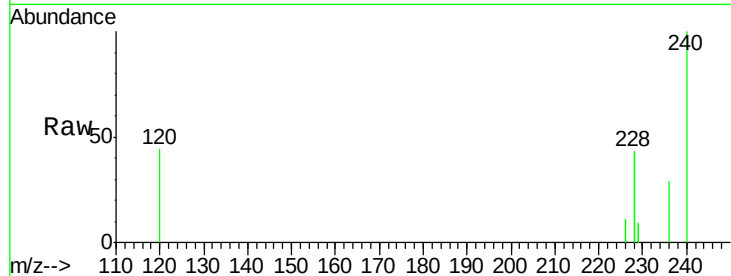
Tgt Ion:228 Resp: 12597

Ion Ratio Lower Upper

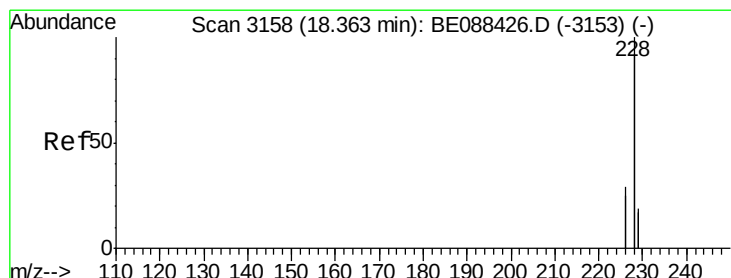
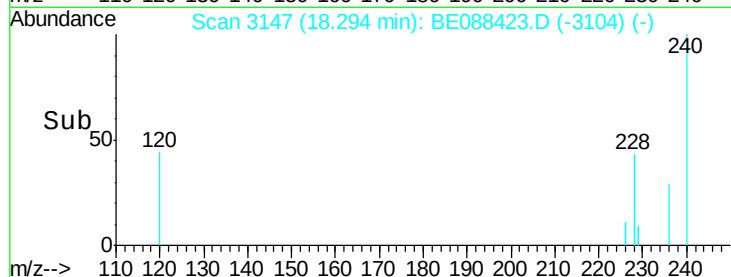
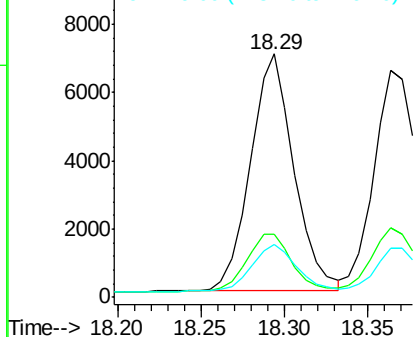
228 100

226 26.1 19.8 29.6

229 21.7 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: 0.22 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

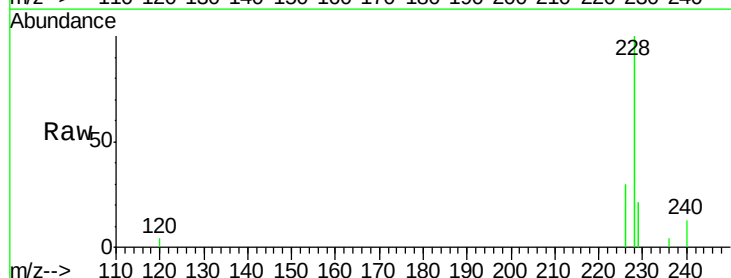
Tgt Ion:228 Resp: 12253

Ion Ratio Lower Upper

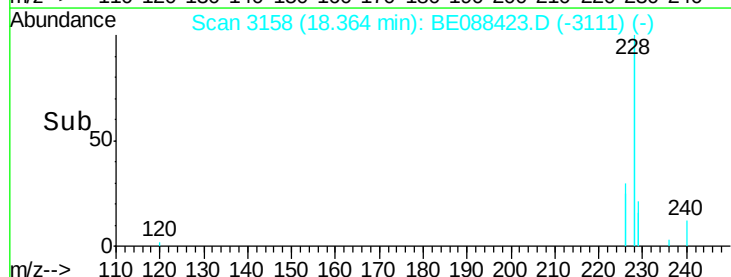
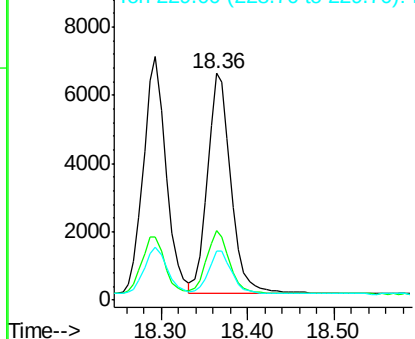
228 100

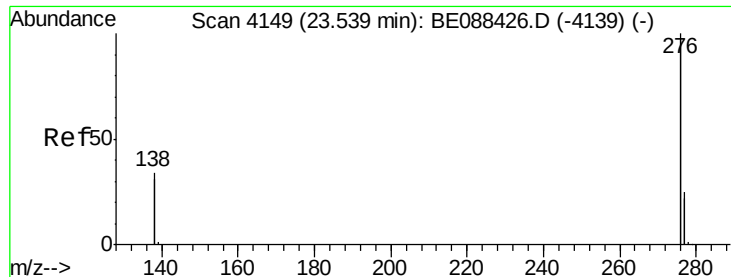
226 30.4 23.6 35.4

229 21.3 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: 0.16 ng

RT: 23.55 min Scan# 4150

Delta R.T. 0.01 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

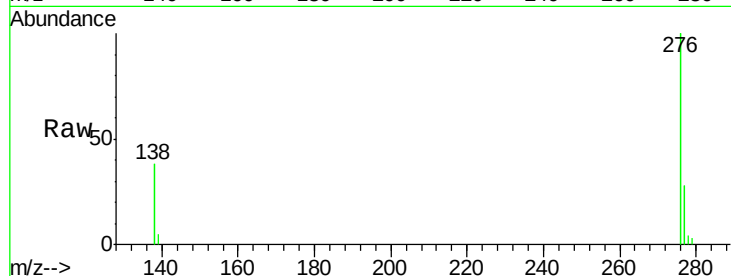
Tgt Ion:276 Resp: 8717

Ion Ratio Lower Upper

276 100

138 32.0 20.2 30.2#

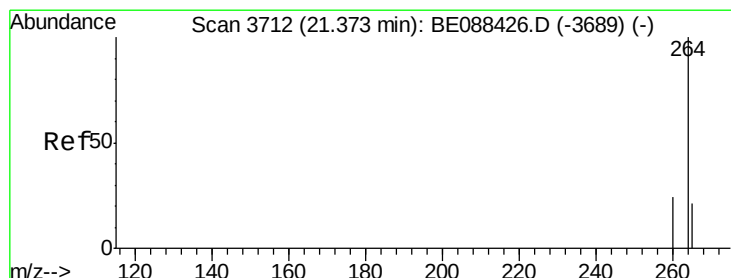
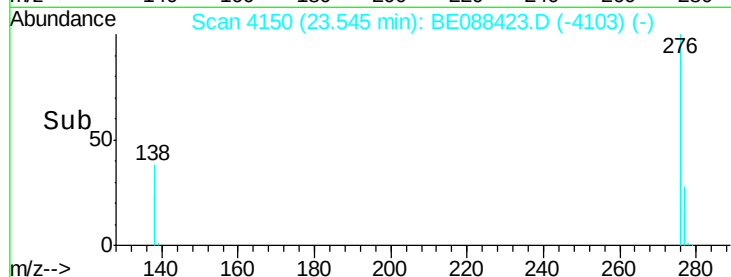
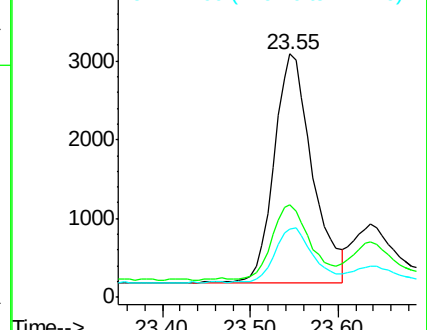
277 23.7 14.8 22.2#



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: 21.37 min Scan# 3712

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

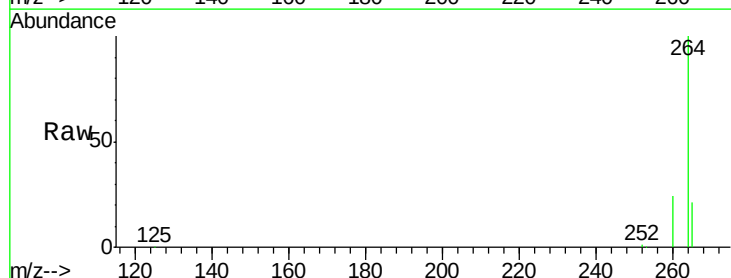
Tgt Ion:264 Resp: 52011

Ion Ratio Lower Upper

264 100

260 24.0 18.9 28.3

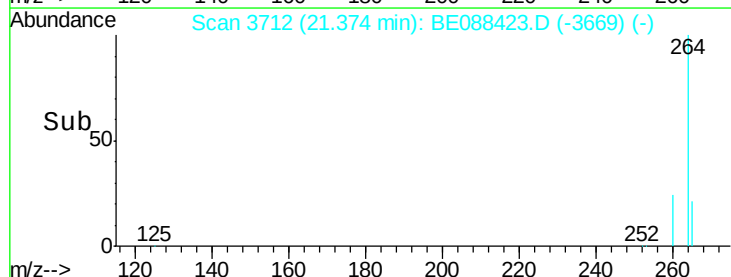
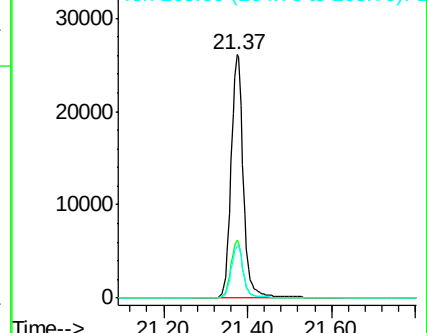
265 21.3 17.2 25.8

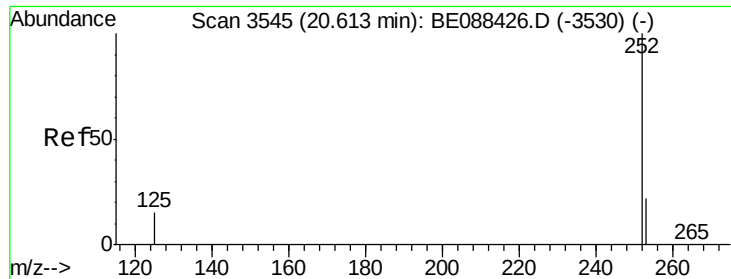


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 20.61 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

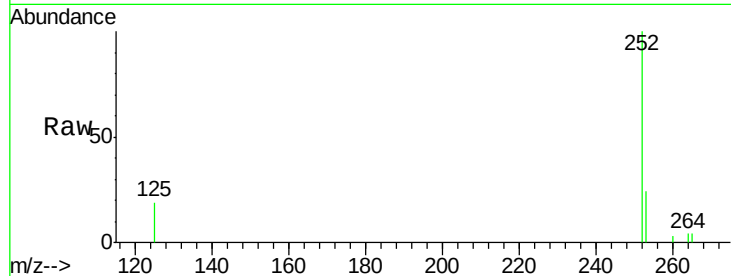
Tgt Ion:252 Resp: 2448

Ion Ratio Lower Upper

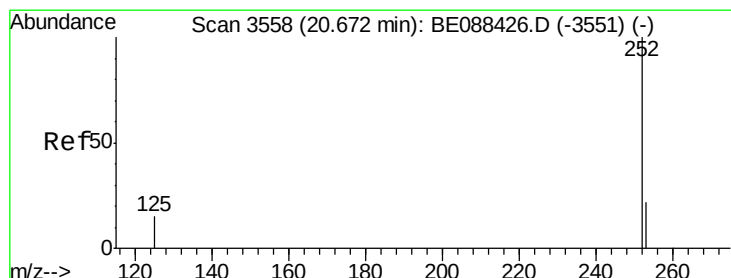
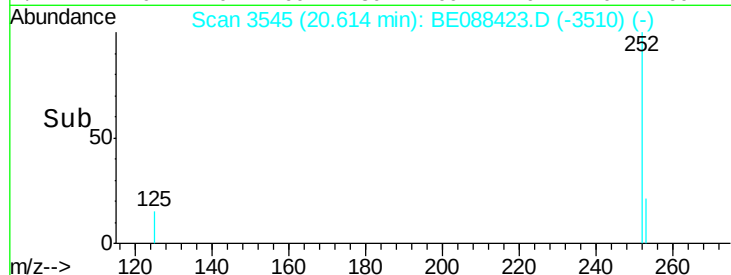
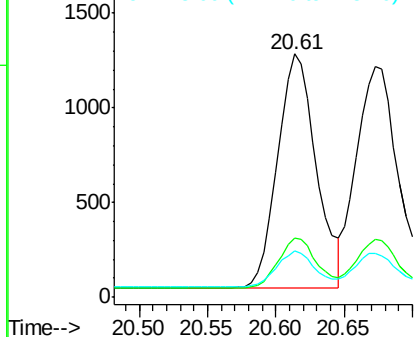
252 100

253 24.1 17.8 26.8

125 19.2 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: 0.21 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

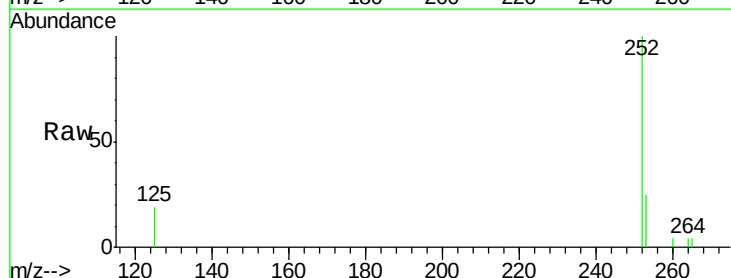
Tgt Ion:252 Resp: 2683

Ion Ratio Lower Upper

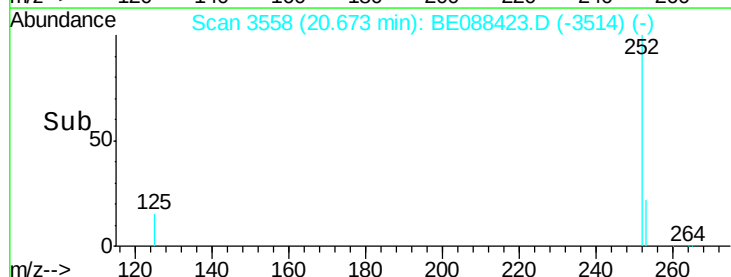
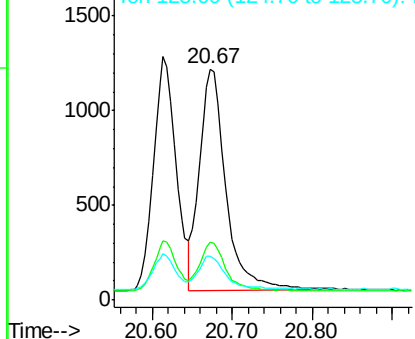
252 100

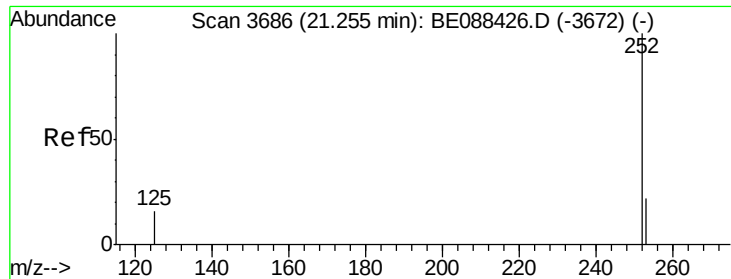
253 25.3 17.8 26.8

125 19.1 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: 0.21 ng

RT: 21.26 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

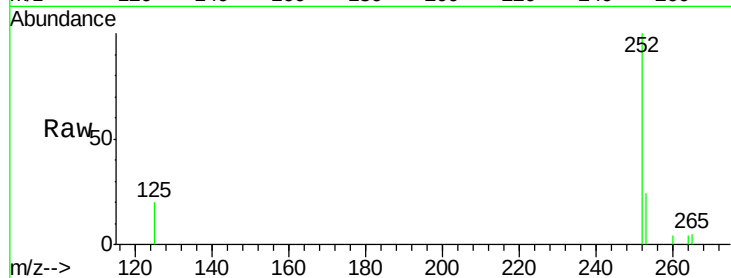
Tgt Ion:252 Resp: 2341

Ion Ratio Lower Upper

252 100

253 24.4 18.2 27.4

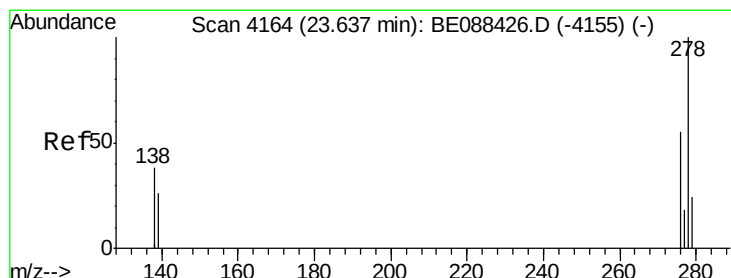
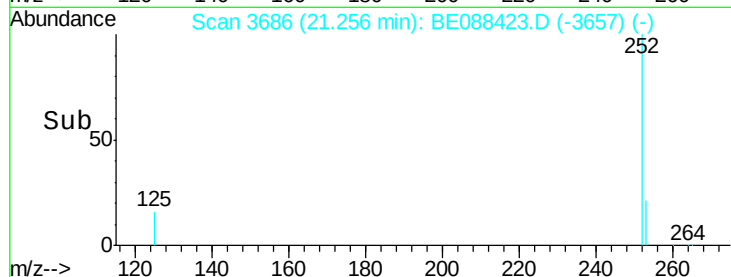
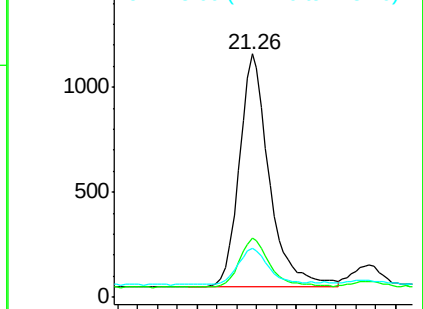
125 20.3 13.7 20.5



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: 0.22 ng

RT: 23.64 min Scan# 4165

Delta R.T. 0.01 min

Lab File: BE088423.D

Acq: 31 Oct 2014 15:19

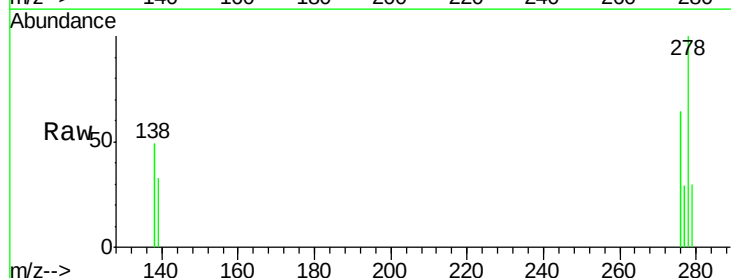
Tgt Ion:278 Resp: 2194

Ion Ratio Lower Upper

278 100

139 32.7 22.1 33.1

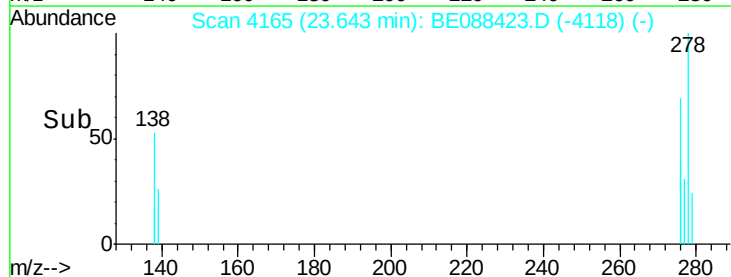
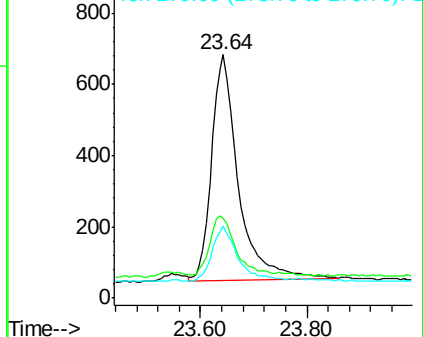
279 29.6 19.7 29.5#

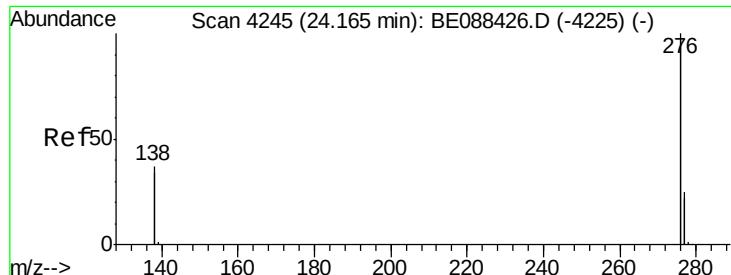


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.22 ng

RT: 24.17 min Scan# 4246

Delta R.T. 0.01 min

Lab File: BE088423.D

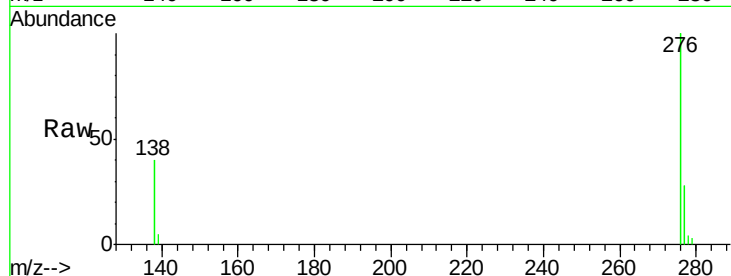
Acq: 31 Oct 2014 15:19

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2



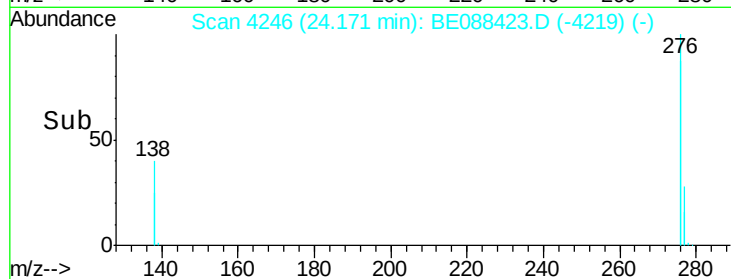
Tgt Ion: 276 Resp: 10259

Ion Ratio Lower Upper

276 100

277 28.2 19.8 29.6

138 39.9 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

