

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088123.D
 Acq On : 21 Oct 2014 00:02
 Operator : TP/JJ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102014

Quant Time: Oct 21 02:13:27 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	45888	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	173018	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	76360	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	137921	5.00	ng	0.00
16) Chrysene-d12	18.39	240	103209	5.00	ng	0.00
22) Perylene-d12	21.44	264	95167	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	13858	1.11	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	23318	1.11	ng	0.00
18) Terphenyl-d14	16.14	244	17605	1.06	ng	0.00

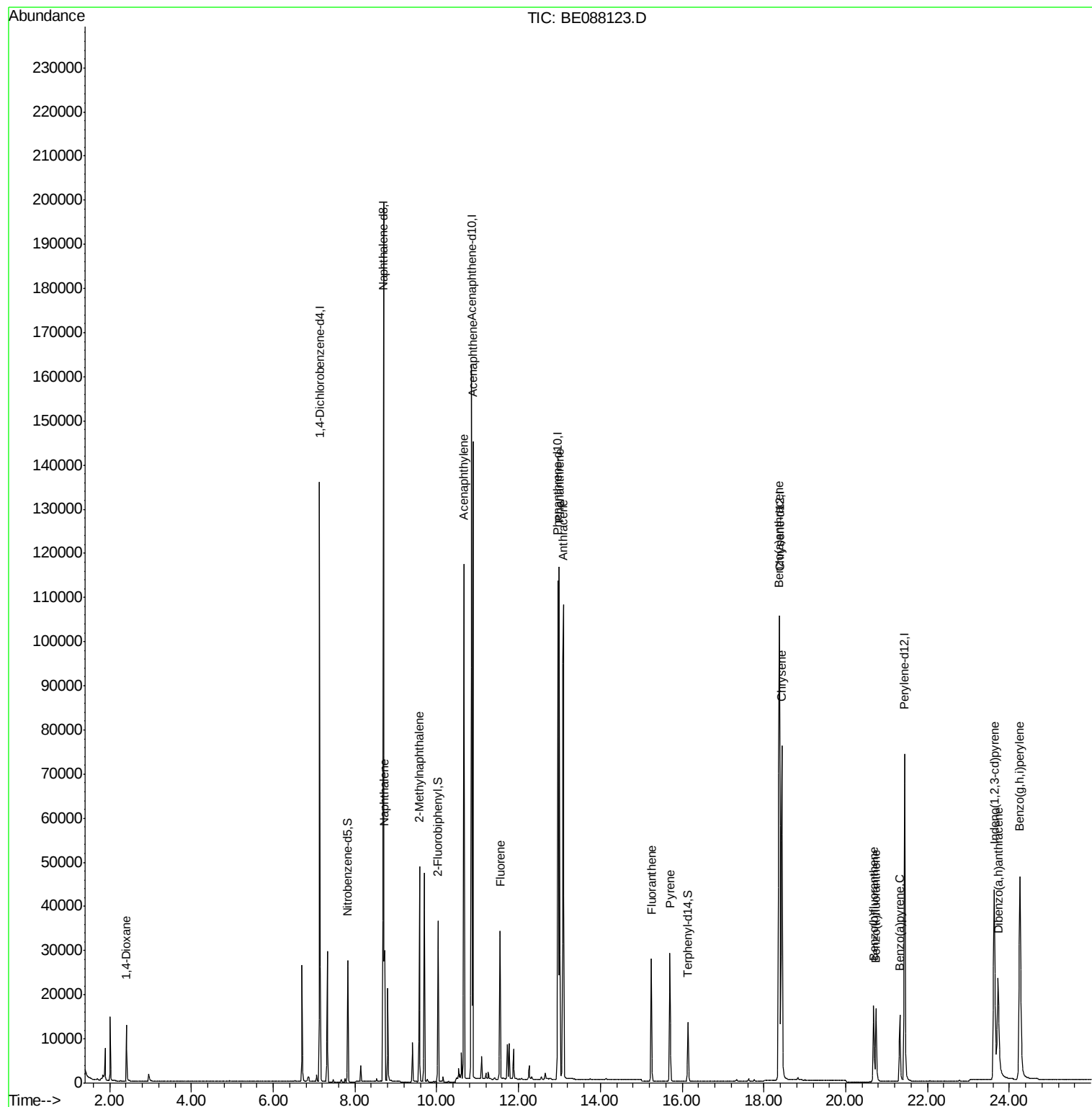
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.41	88	7064	1.07	ng	99
5) Naphthalene	8.72	128	38437	1.08	ng	100
6) 2-Methylnaphthalene	9.57	142	23360	1.09	ng	98
9) Acenaphthylene	10.66	152	130058	1.12	ng	100
10) Acenaphthene	10.88	154	19617	1.09	ng	97
11) Fluorene	11.55	166	20768	1.09	ng	99
13) Phenanthrene	13.00	178	144794	1.26	ng	100
14) Anthracene	13.09	178	115642	1.07	ng	99
15) Fluoranthene	15.25	202	27153	1.03	ng	100
17) Pyrene	15.70	202	29043	1.04	ng	100
19) Benzo(a)anthracene	18.36	228	91442	1.00	ng	99
20) Chrysene	18.44	228	93419	1.04	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	81855	0.82	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	22929	1.01	ng	99
24) Benzo(k)fluoranthene	20.74	252	25594	1.06	ng	100
25) Benzo(a)pyrene	21.32	252	21679	1.04	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	21121	1.03	ng	99
27) Benzo(g,h,i)perylene	24.26	276	93253	1.03	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: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

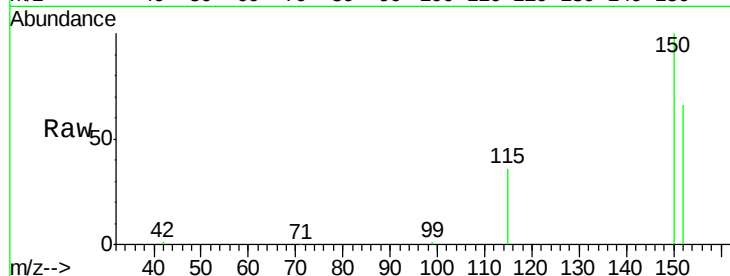
Tgt Ion: 152 Resp: 45888

Ion Ratio Lower Upper

152 100

150 151.6 129.2 193.8

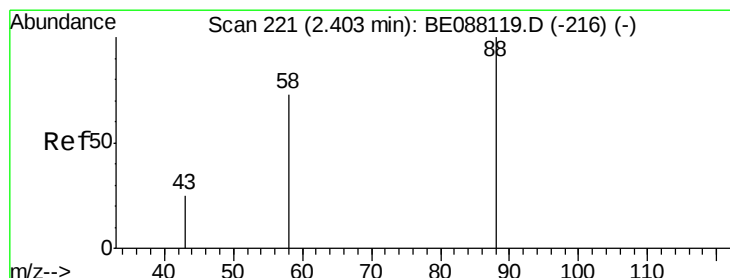
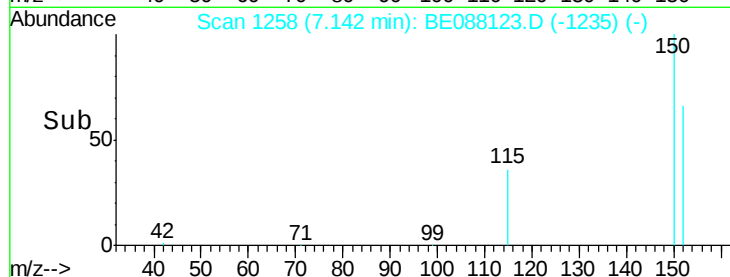
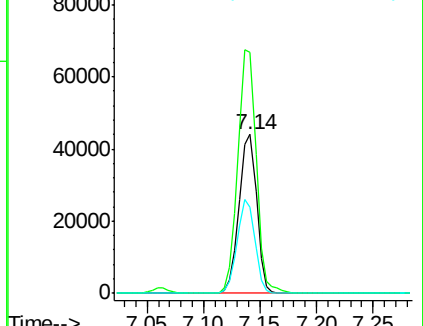
115 54.7 49.3 73.9



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: 1.07 ng

RT: 2.41 min Scan# 222

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

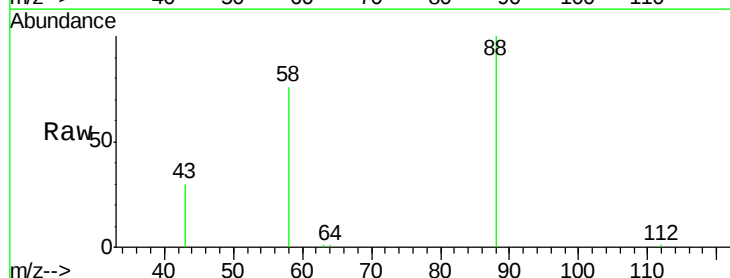
Tgt Ion: 88 Resp: 7064

Ion Ratio Lower Upper

88 100

58 73.8 59.5 89.3

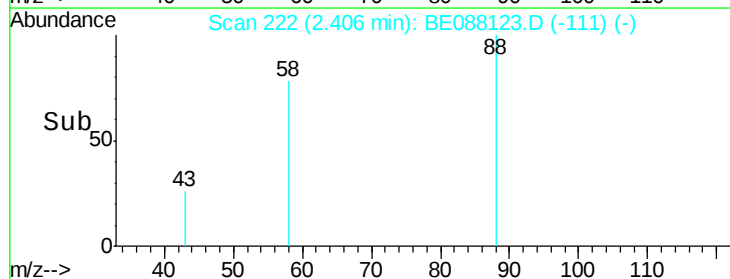
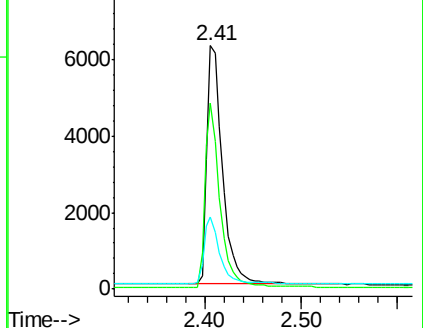
43 27.2 21.2 31.8

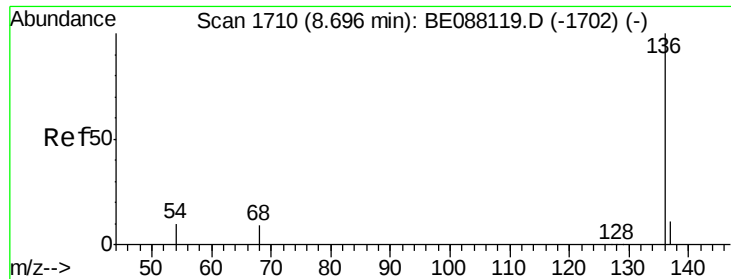


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

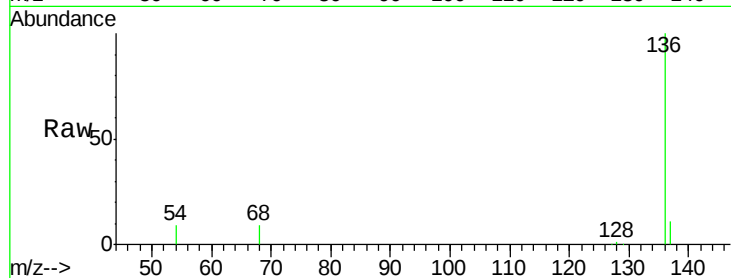




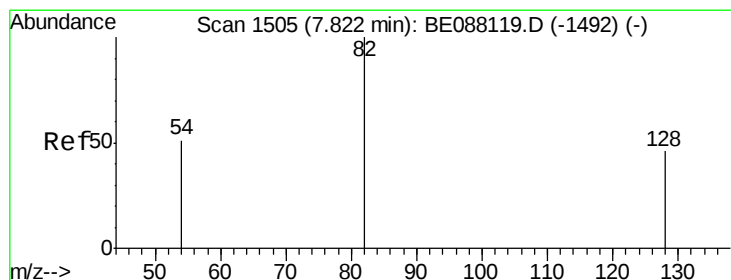
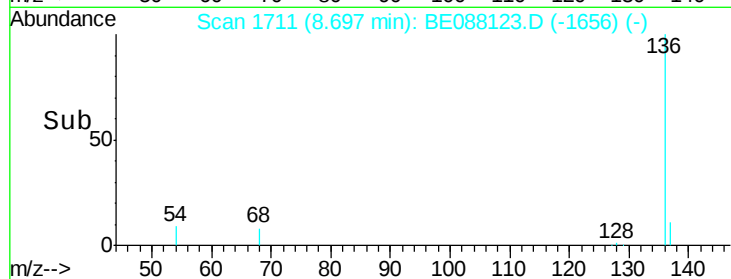
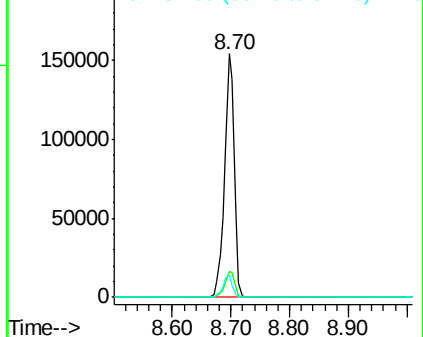
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088123.D
Acq: 21 Oct 2014 00:02

Instrument :
BNA_E
ClientSampleId :
ICVBE102014

Tgt Ion: 136 Resp: 173018
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 9.3 7.7 11.5

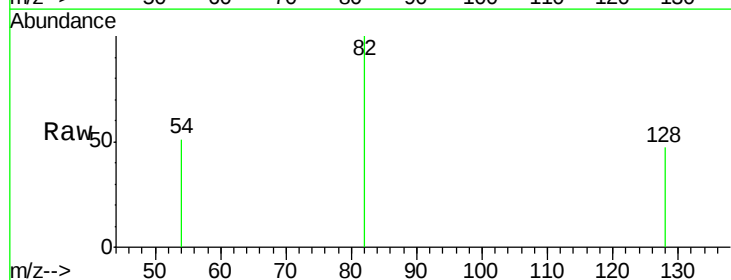


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

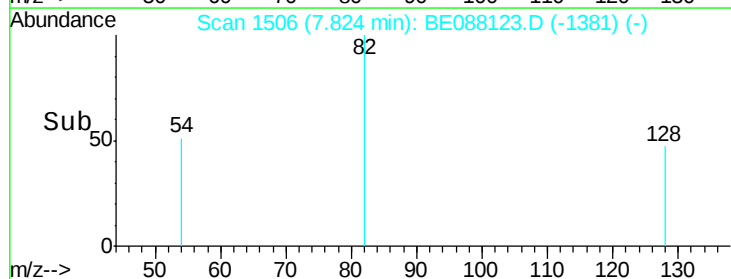
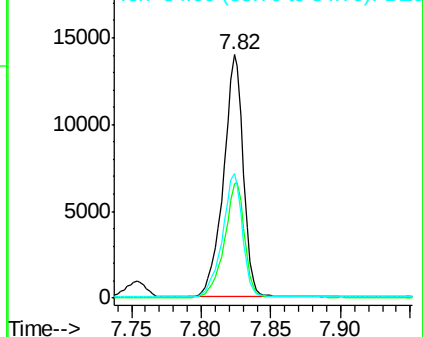


#4
Nitrobenzene-d5
Concen: 1.11 ng
RT: 7.82 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BE088123.D
Acq: 21 Oct 2014 00:02

Tgt Ion: 82 Resp: 13858
Ion Ratio Lower Upper
82 100
128 47.0 37.1 55.7
54 51.2 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.08 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

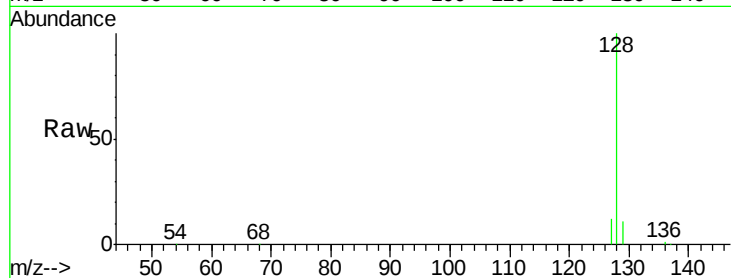
Tgt Ion:128 Resp: 38437

Ion Ratio Lower Upper

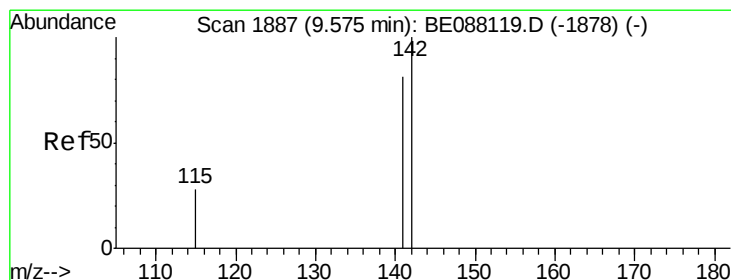
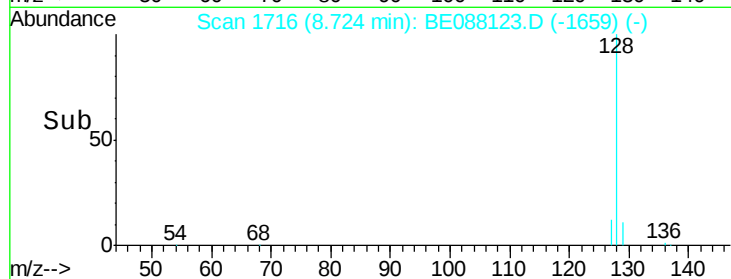
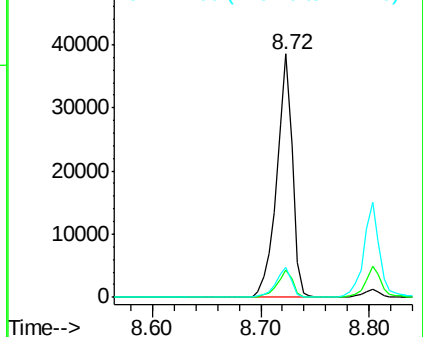
128 100

129 11.1 8.9 13.3

127 12.1 9.7 14.5



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: 1.09 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

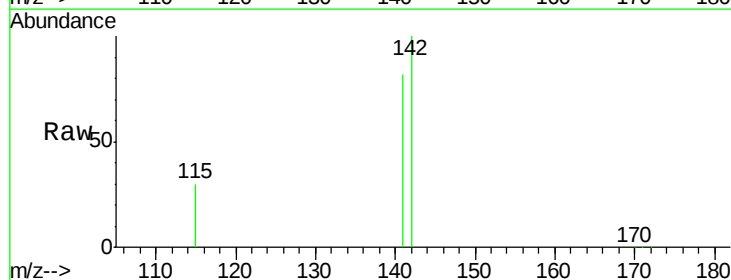
Tgt Ion:142 Resp: 23360

Ion Ratio Lower Upper

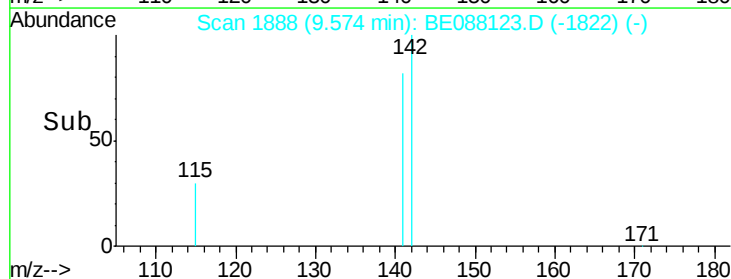
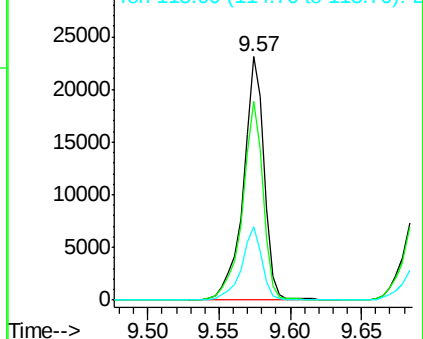
142 100

141 81.9 64.6 97.0

115 29.9 22.6 34.0



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: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

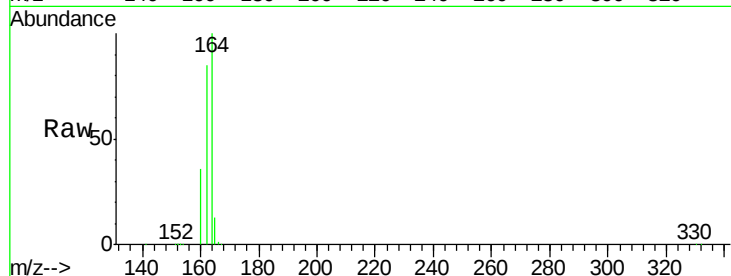
Tgt Ion:164 Resp: 76360

Ion Ratio Lower Upper

164 100

162 84.9 68.3 102.5

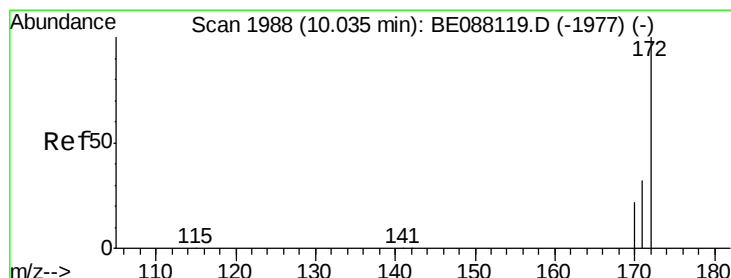
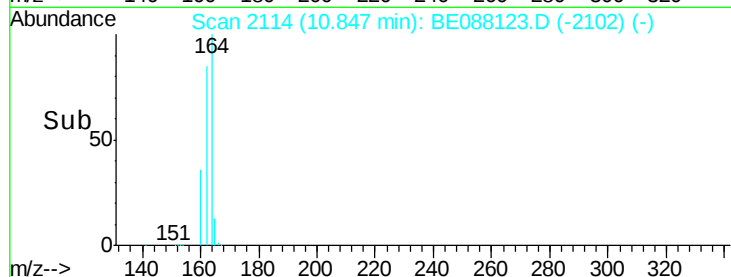
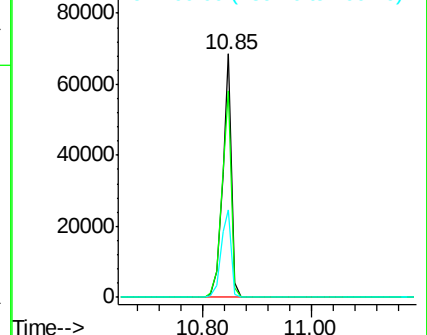
160 35.9 28.7 43.1



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: 1.11 ng

RT: 10.03 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

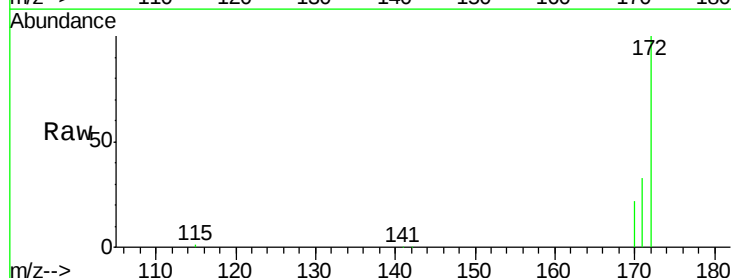
Tgt Ion:172 Resp: 23318

Ion Ratio Lower Upper

172 100

171 32.6 25.4 38.2

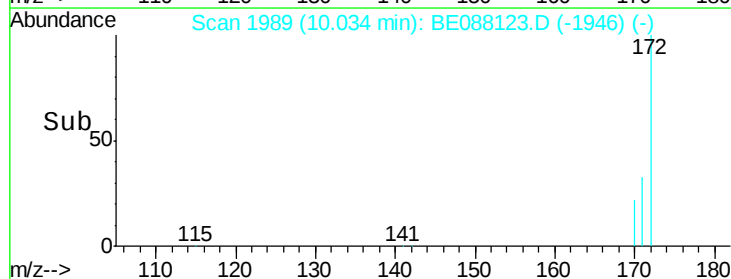
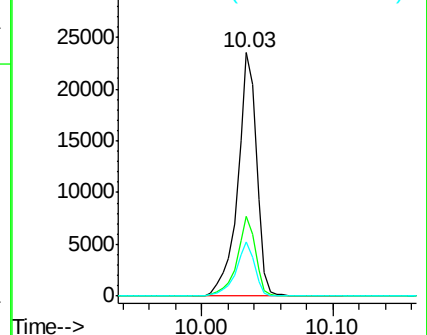
170 22.4 17.4 26.2

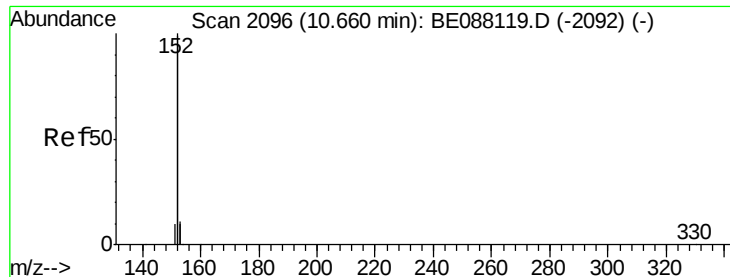


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.12 ng

RT: 10.66 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

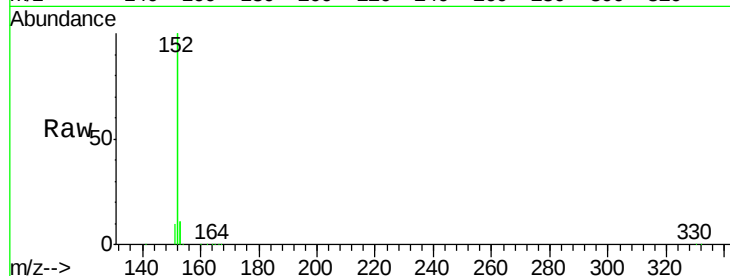
Tgt Ion:152 Resp: 130058

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

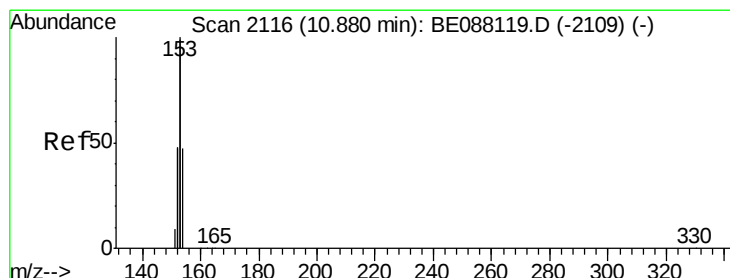
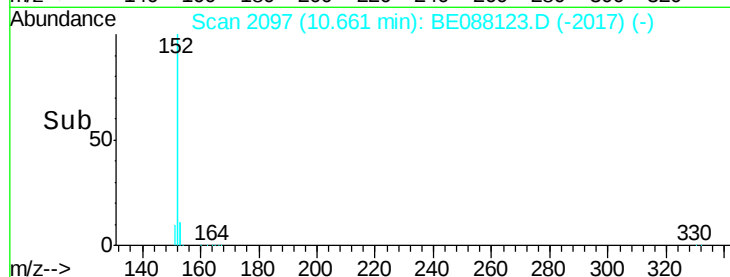
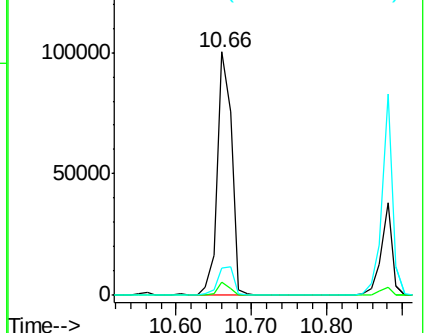
153 13.0 10.4 15.6



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



#10

Acenaphthene

Concen: 1.09 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

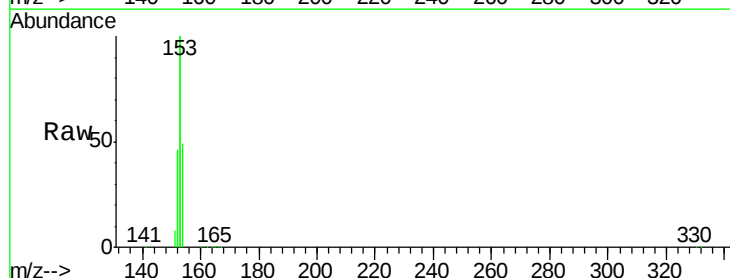
Tgt Ion:154 Resp: 19617

Ion Ratio Lower Upper

154 100

153 404.9 327.8 491.6

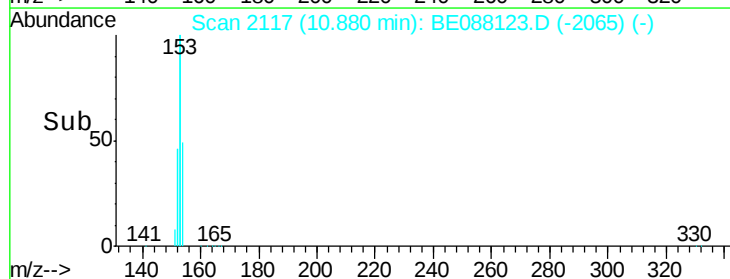
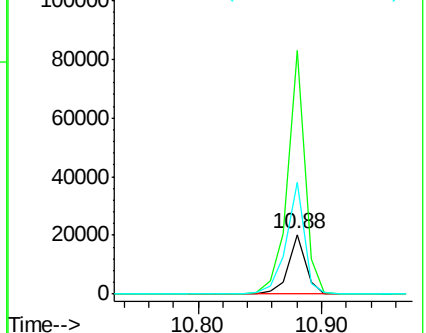
152 191.7 157.6 236.4



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

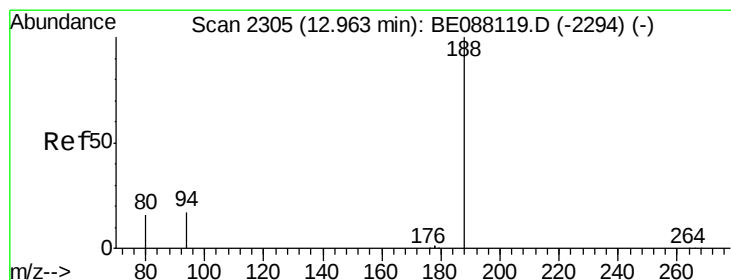
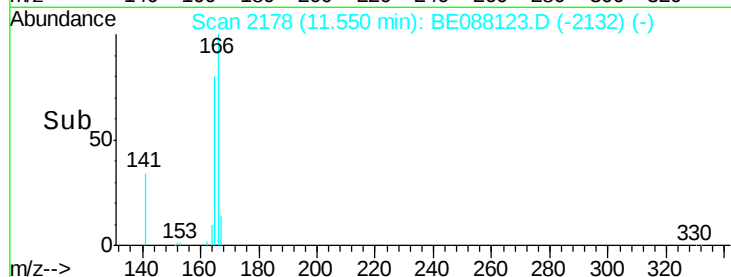
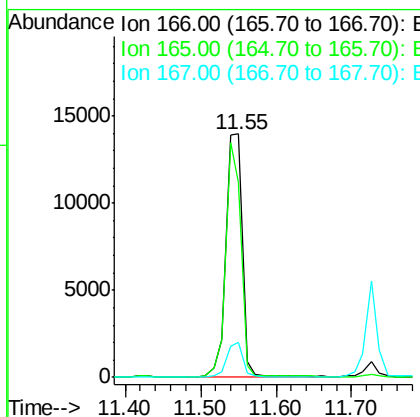
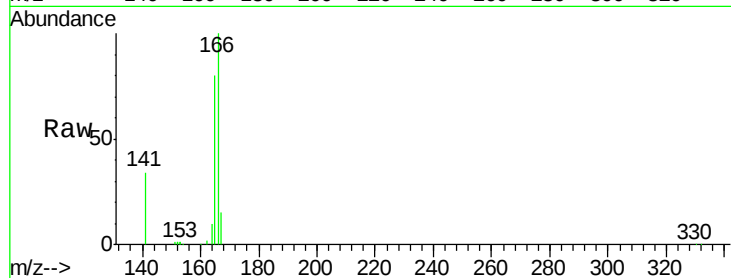




#11
Fluorene
 Concen: 1.09 ng
 RT: 11.55 min Scan# 2178
 Delta R.T. 0.00 min
 Lab File: BE088123.D
 Acq: 21 Oct 2014 00:02

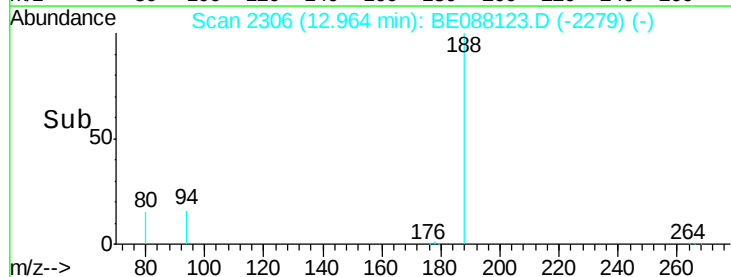
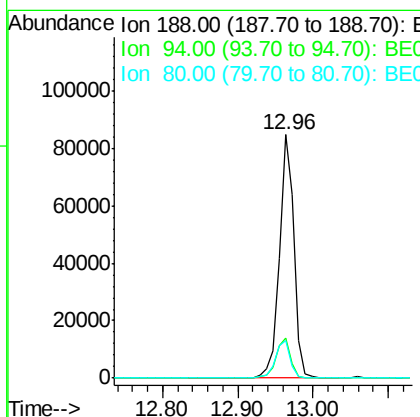
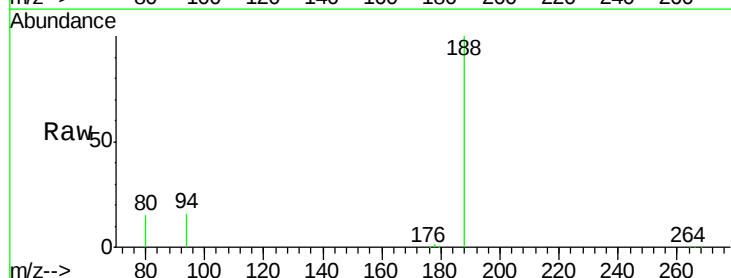
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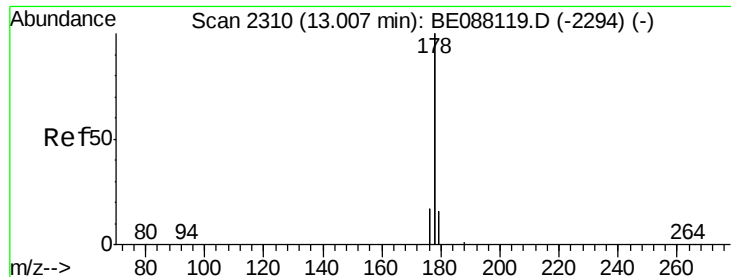
Tgt Ion:166 Resp: 20768
 Ion Ratio Lower Upper
 166 100
 165 88.8 71.4 107.2
 167 13.5 10.6 16.0



#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.96 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: BE088123.D
 Acq: 21 Oct 2014 00:02

Tgt Ion:188 Resp: 137921
 Ion Ratio Lower Upper
 188 100
 94 16.3 13.9 20.9
 80 15.3 12.9 19.3

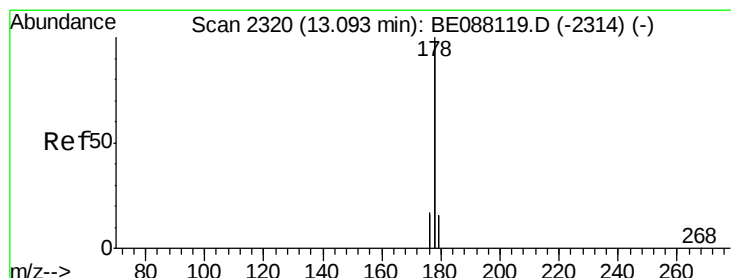
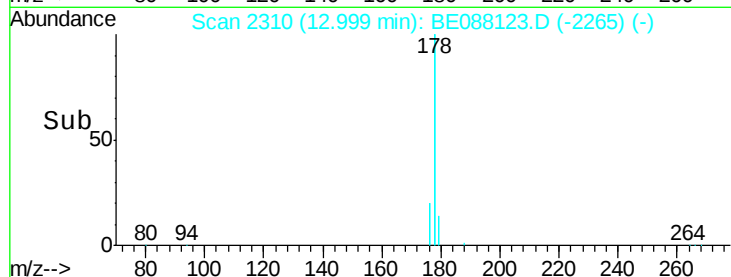
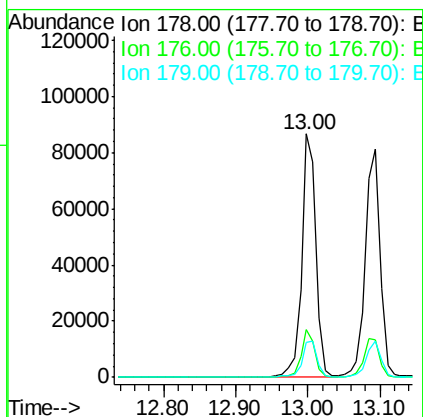
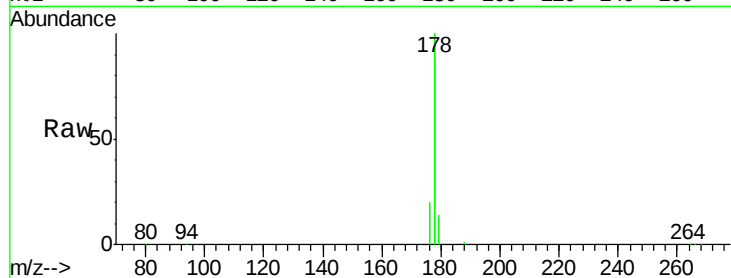




#13
Phenanthrene
Concen: 1.26 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088123.D
Acq: 21 Oct 2014 00:02

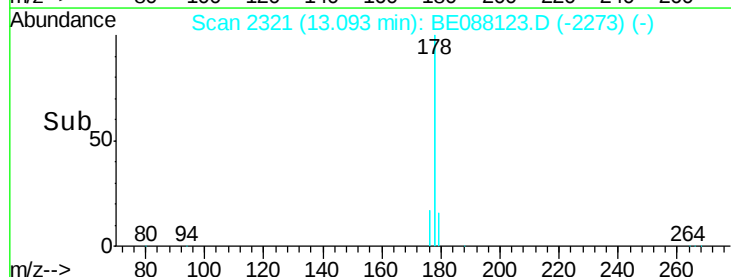
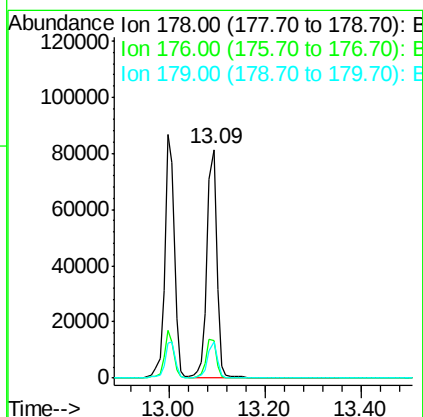
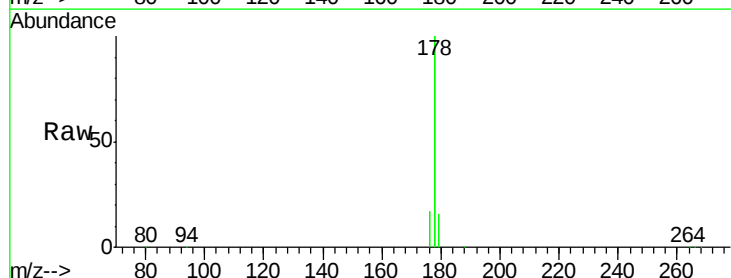
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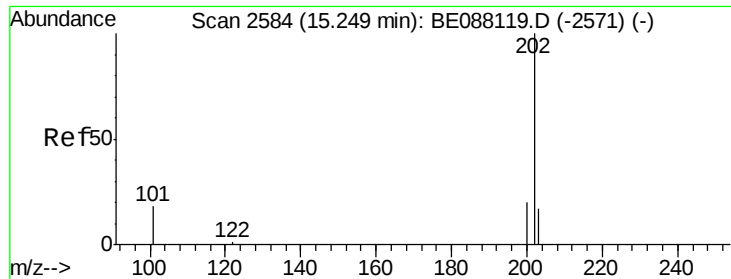
Tgt Ion:178 Resp: 144794
Ion Ratio Lower Upper
178 100
176 15.7 12.5 18.7
179 16.7 13.5 20.3



#14
Anthracene
Concen: 1.07 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.00 min
Lab File: BE088123.D
Acq: 21 Oct 2014 00:02

Tgt Ion:178 Resp: 115642
Ion Ratio Lower Upper
178 100
176 17.9 14.6 21.8
179 15.4 12.5 18.7





#15

Fluoranthene

Concen: 1.03 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

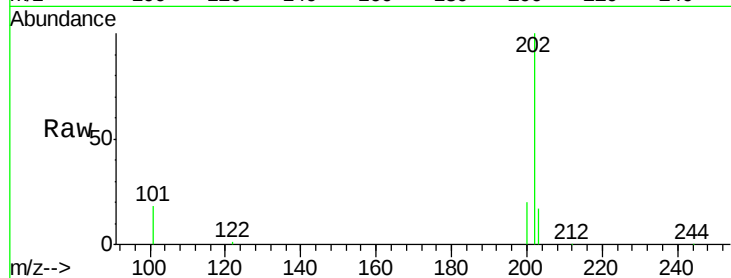
Tgt Ion:202 Resp: 27153

Ion Ratio Lower Upper

202 100

101 18.6 14.8 22.2

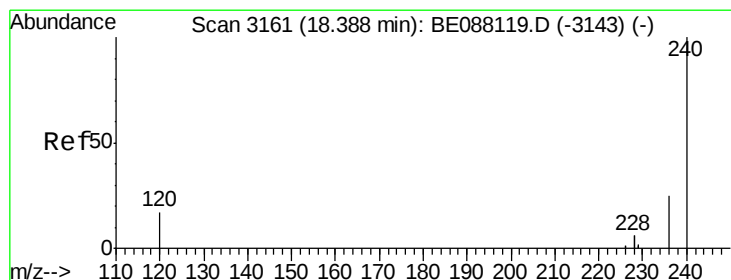
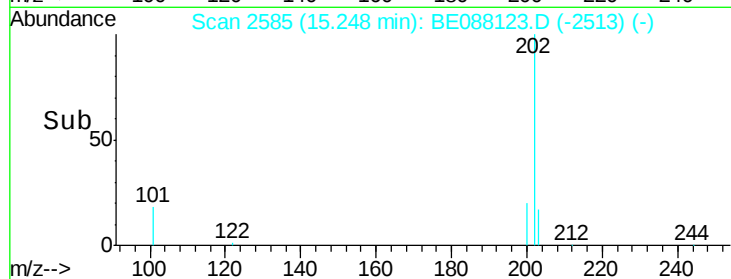
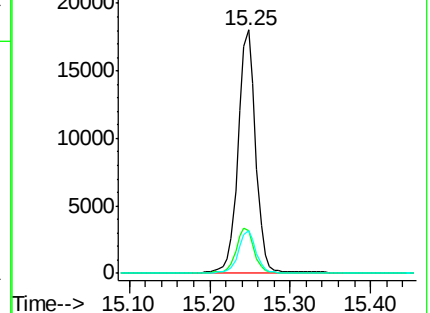
203 17.1 13.5 20.3



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: 18.39 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

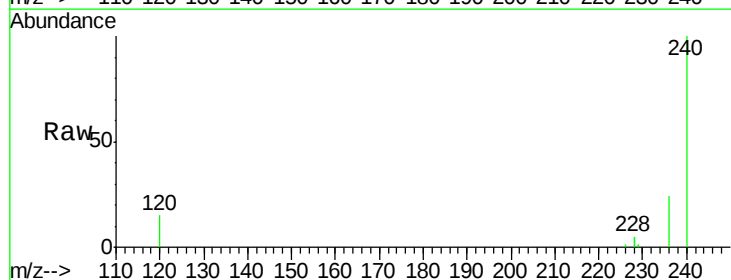
Tgt Ion:240 Resp: 103209

Ion Ratio Lower Upper

240 100

120 15.5 13.9 20.9

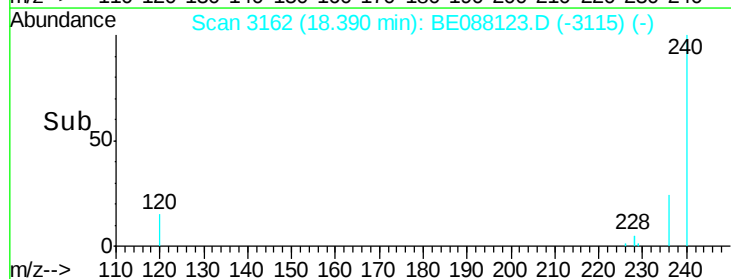
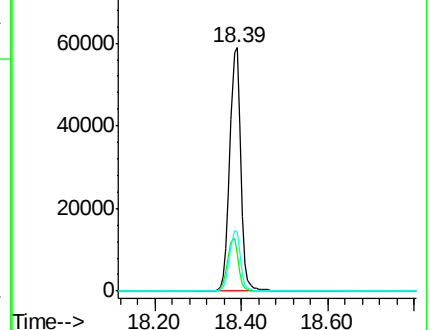
236 24.4 19.9 29.9

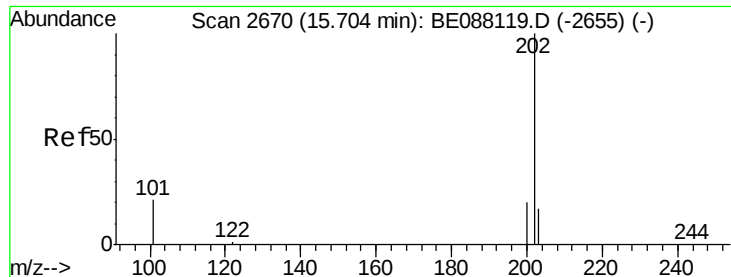


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

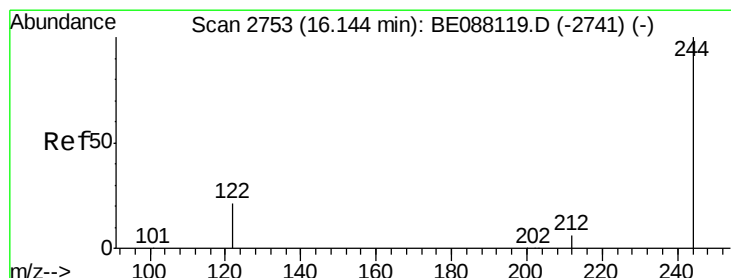
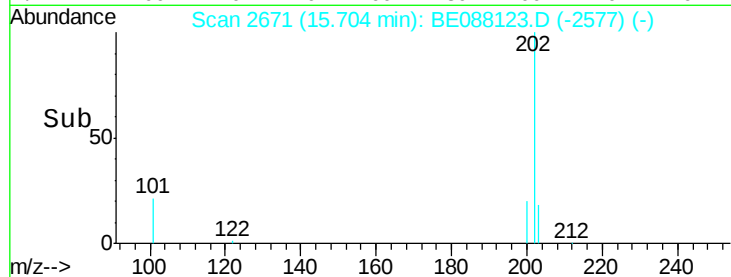
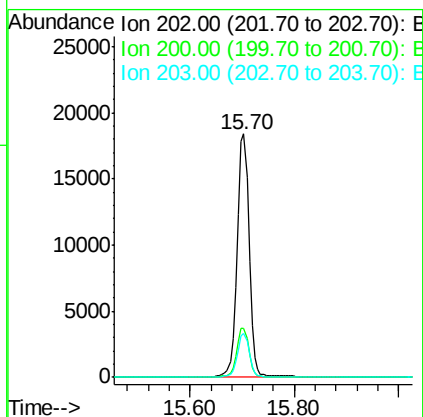
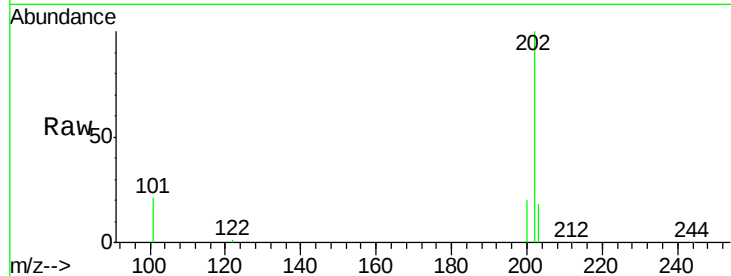




#17
 Pyrene
 Concen: 1.04 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088123.D
 Acq: 21 Oct 2014 00:02

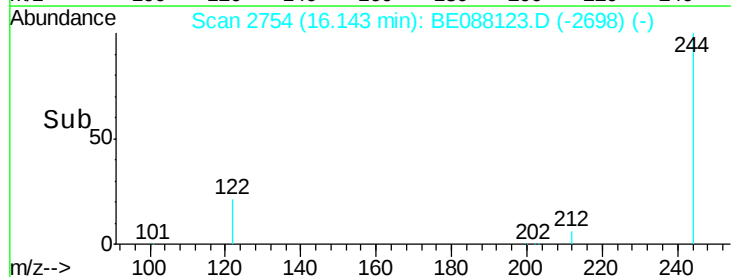
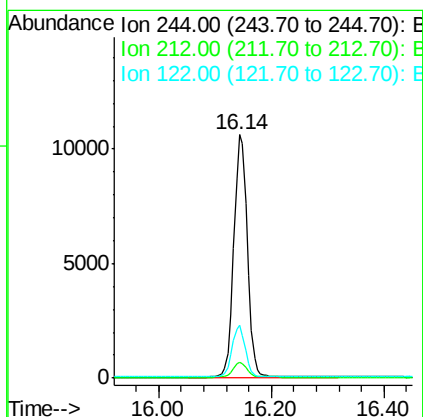
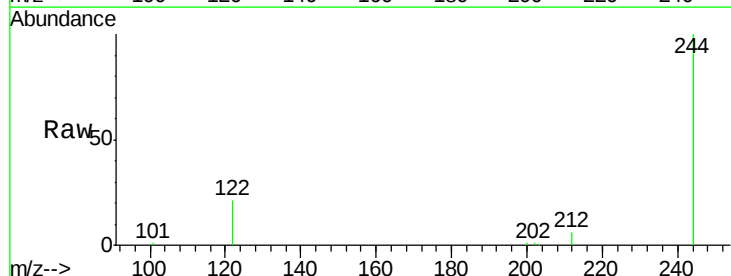
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102014

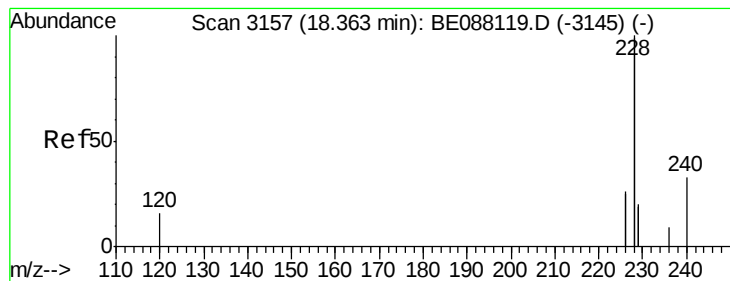
Tgt Ion: 202 Resp: 29043
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 17.5 13.9 20.9



#18
 Terphenyl-d14
 Concen: 1.06 ng
 RT: 16.14 min Scan# 2754
 Delta R.T. -0.00 min
 Lab File: BE088123.D
 Acq: 21 Oct 2014 00:02

Tgt Ion: 244 Resp: 17605
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 21.5 17.5 26.3





#19

Benzo(a)anthracene

Concen: 1.00 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

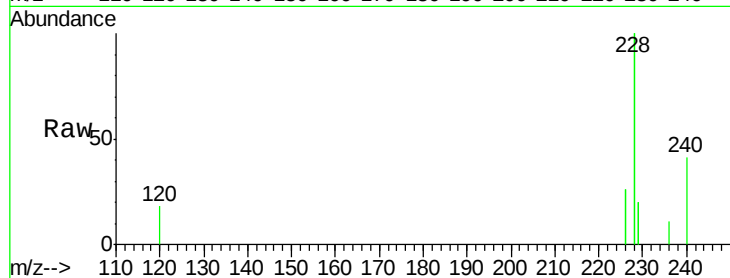
Tgt Ion:228 Resp: 91442

Ion Ratio Lower Upper

228 100

226 25.5 20.8 31.2

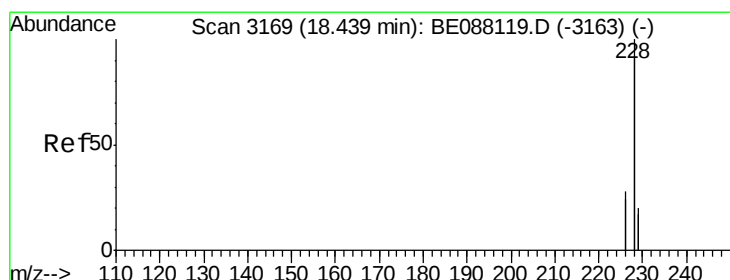
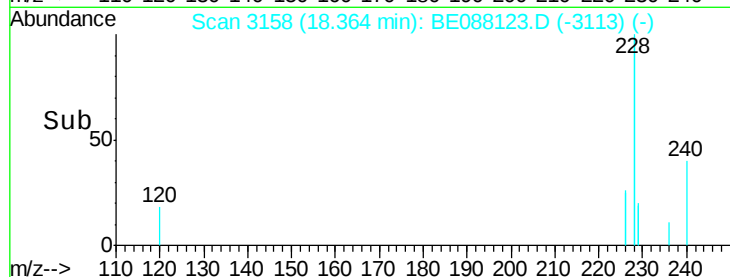
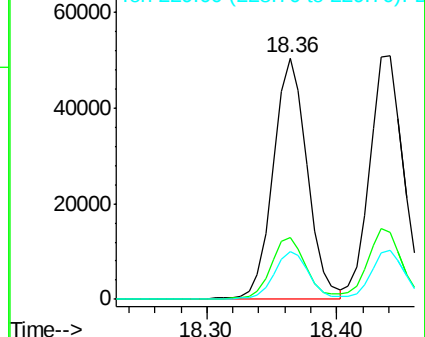
229 19.7 15.6 23.4



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: 1.04 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

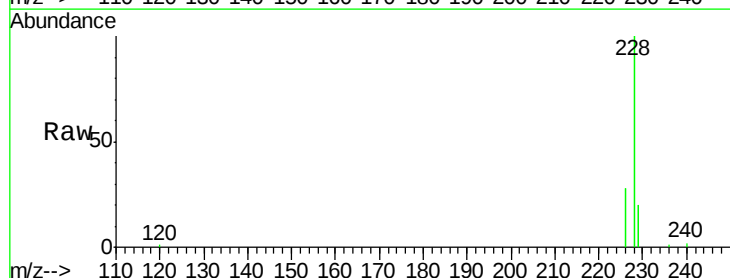
Tgt Ion:228 Resp: 93419

Ion Ratio Lower Upper

228 100

226 27.5 22.7 34.1

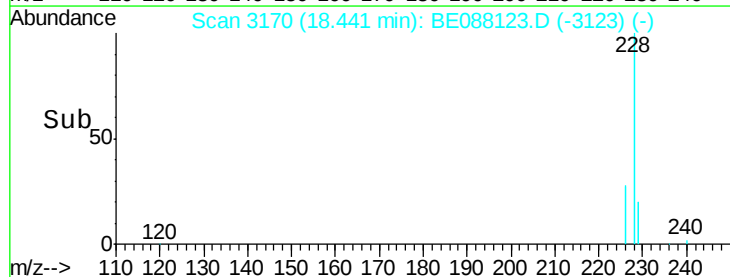
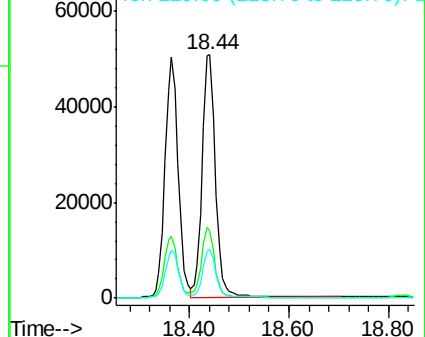
229 20.3 15.8 23.6

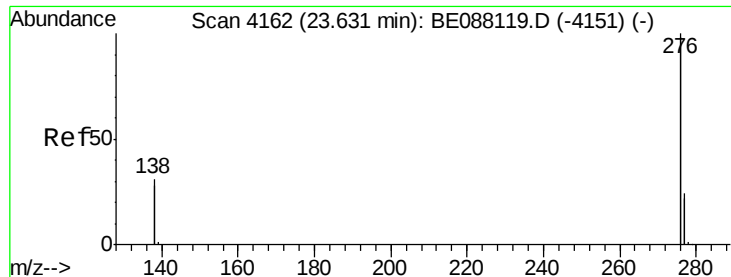


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.82 ng

RT: 23.63 min Scan# 4163

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

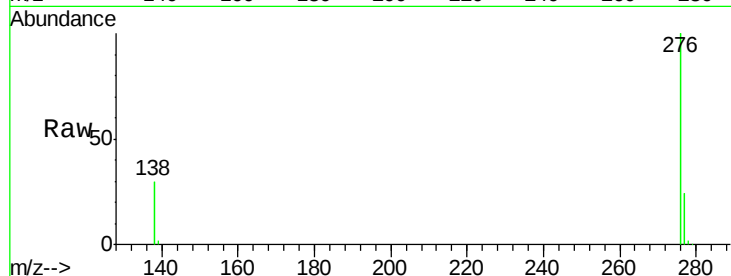
Tgt Ion: 276 Resp: 81855

Ion Ratio Lower Upper

276 100

138 30.1 18.5 27.7#

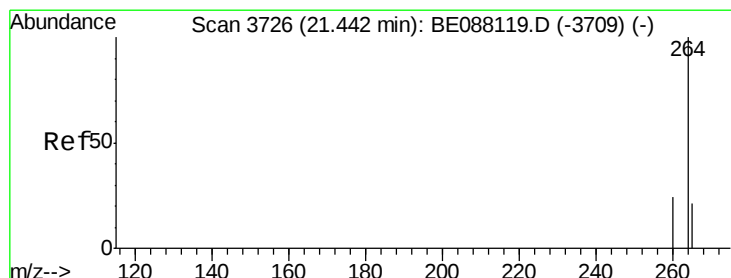
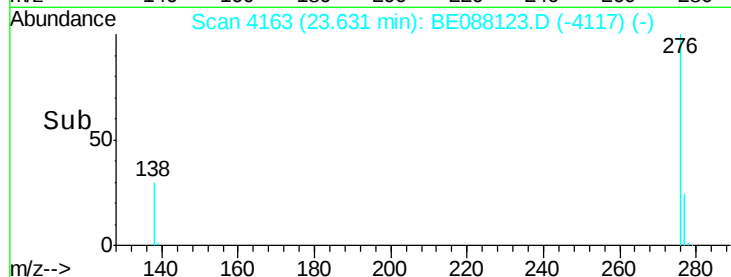
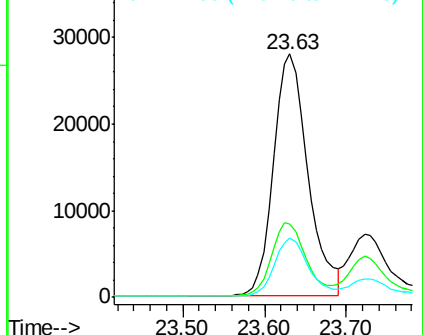
277 23.7 14.6 21.8#



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: 21.44 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

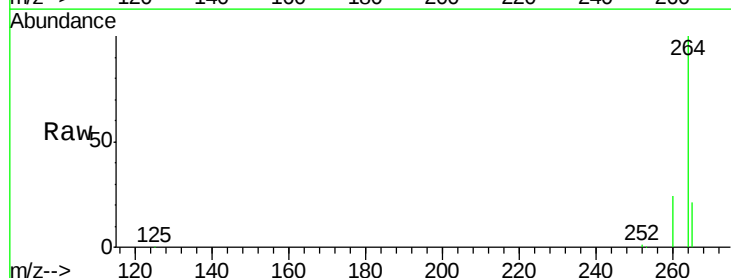
Tgt Ion: 264 Resp: 95167

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

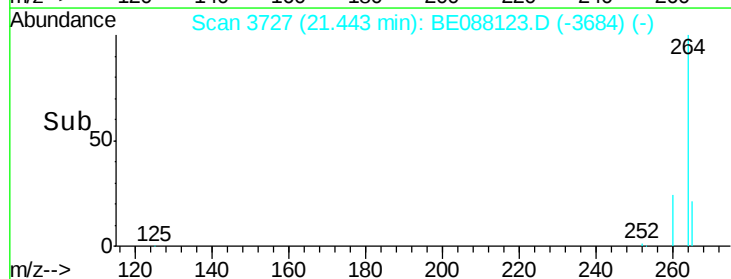
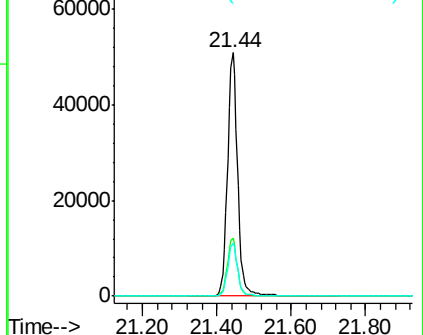
265 21.5 17.2 25.8

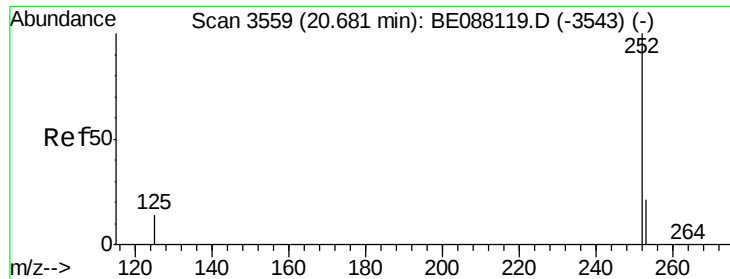


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 1.01 ng

RT: 20.68 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

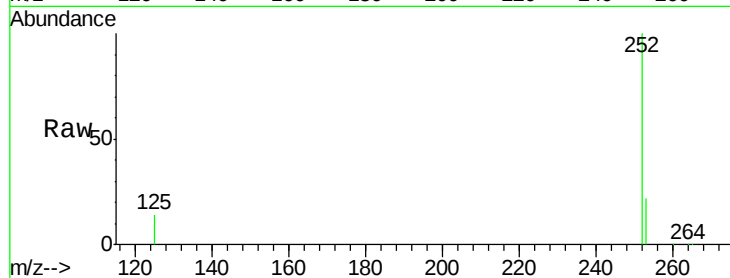
Tgt Ion:252 Resp: 22929

Ion Ratio Lower Upper

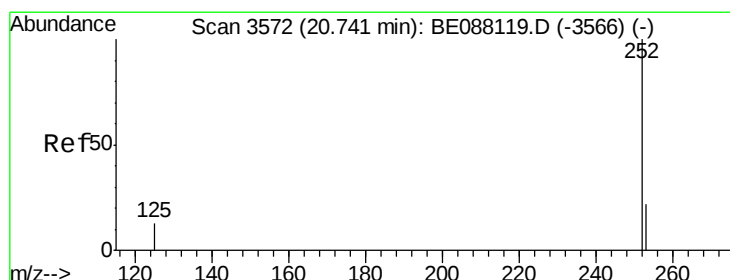
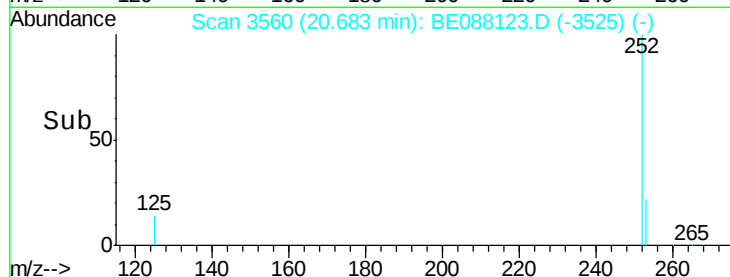
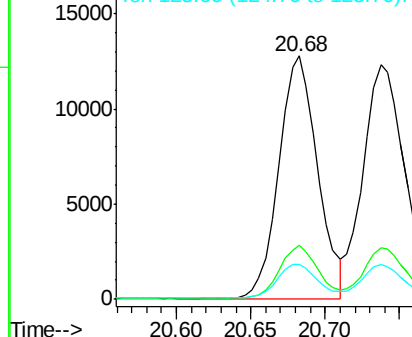
252 100

253 22.1 17.4 26.0

125 14.4 11.8 17.8



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



#24

Benzo(k)fluoranthene

Concen: 1.06 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

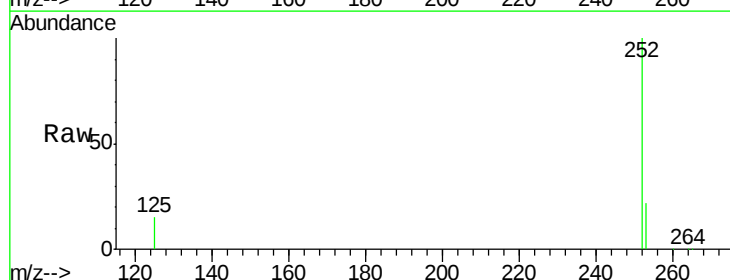
Tgt Ion:252 Resp: 25594

Ion Ratio Lower Upper

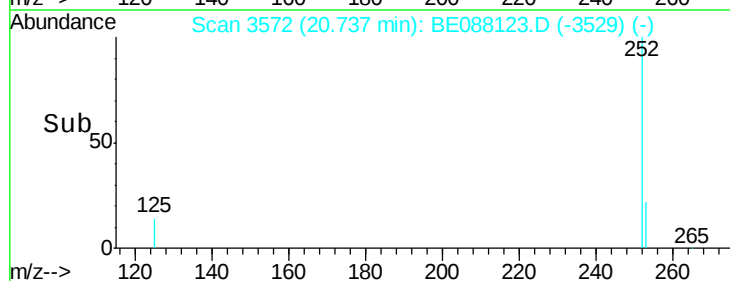
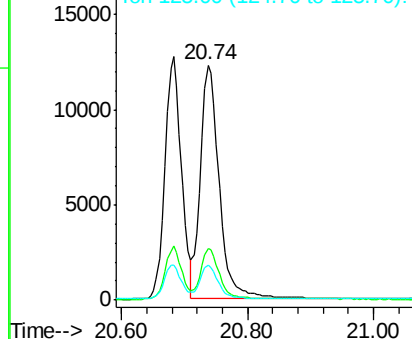
252 100

253 21.9 17.6 26.4

125 14.7 11.5 17.3



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: 1.04 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014

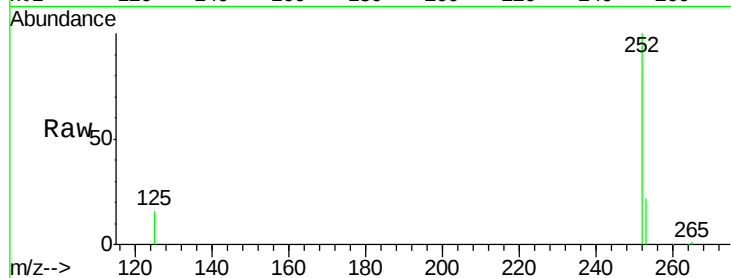
Tgt Ion:252 Resp: 21679

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

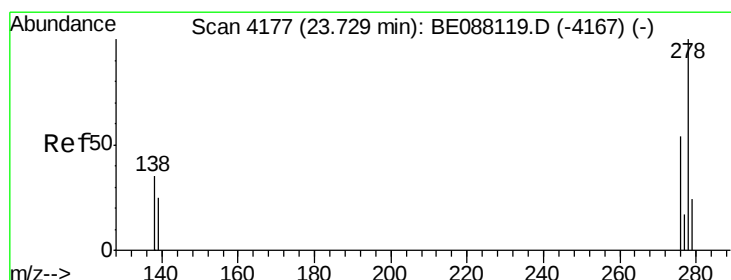
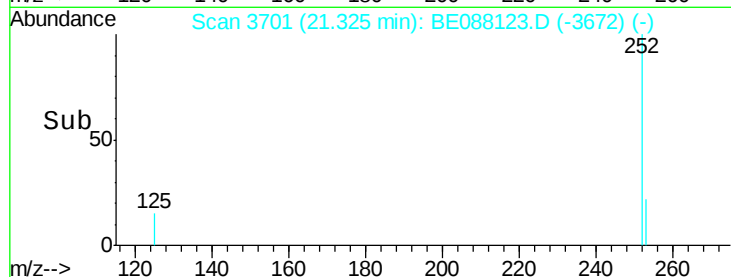
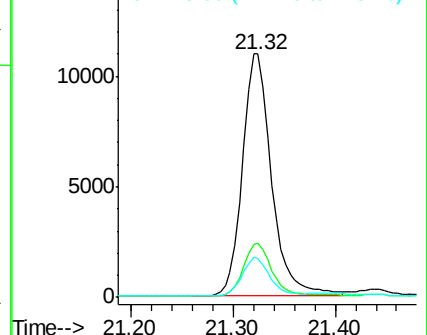
125 15.7 13.0 19.6



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



#26

Dibenzo(a,h)anthracene

Concen: 1.03 ng

RT: 23.73 min Scan# 4178

Delta R.T. 0.00 min

Lab File: BE088123.D

Acq: 21 Oct 2014 00:02

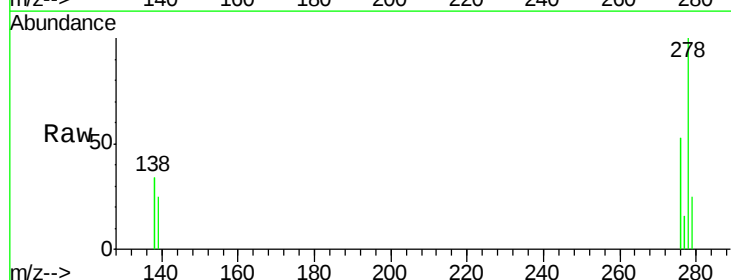
Tgt Ion:278 Resp: 21121

Ion Ratio Lower Upper

278 100

139 25.5 20.9 31.3

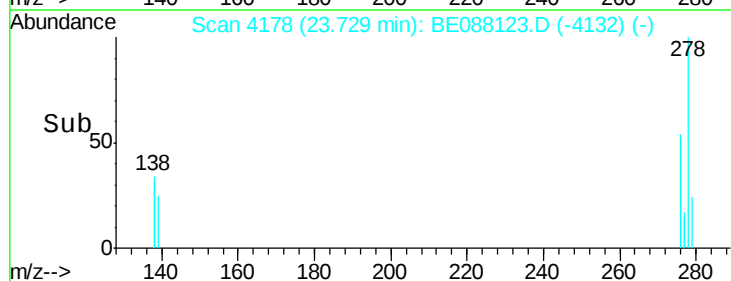
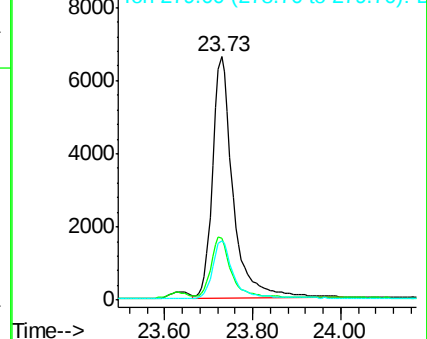
279 24.5 19.8 29.8

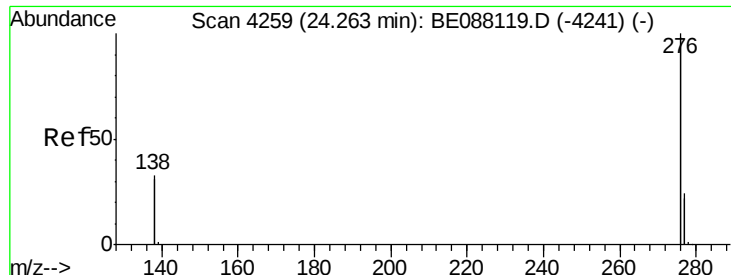


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.03 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.01 min

Lab File: BE088123.D

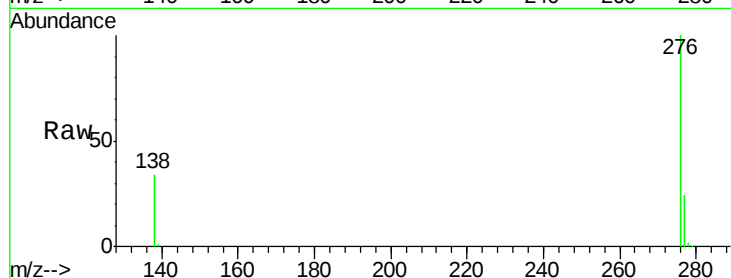
Acq: 21 Oct 2014 00:02

Instrument :

BNA_E

ClientSampleId :

ICVBE102014



Tgt Ion: 276 Resp: 93253

Ion Ratio Lower Upper

276 100

277 23.6 19.2 28.8

138 33.5 26.6 40.0

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

