

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088117.D
 Acq On : 20 Oct 2014 20:42
 Operator : TP/JJ
 Sample : SSTDICC0.5
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Quant Time: Oct 21 01:56:56 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 01:52:35 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	55040	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	207410	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	92812	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	165479	5.00	ng	0.00
16) Chrysene-d12	18.39	240	124071	5.00	ng	0.00
22) Perylene-d12	21.45	264	113013	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.82	82	7614	0.61	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	13420	0.52	ng	0.00
18) Terphenyl-d14	16.15	244	10356	0.54	ng	0.00

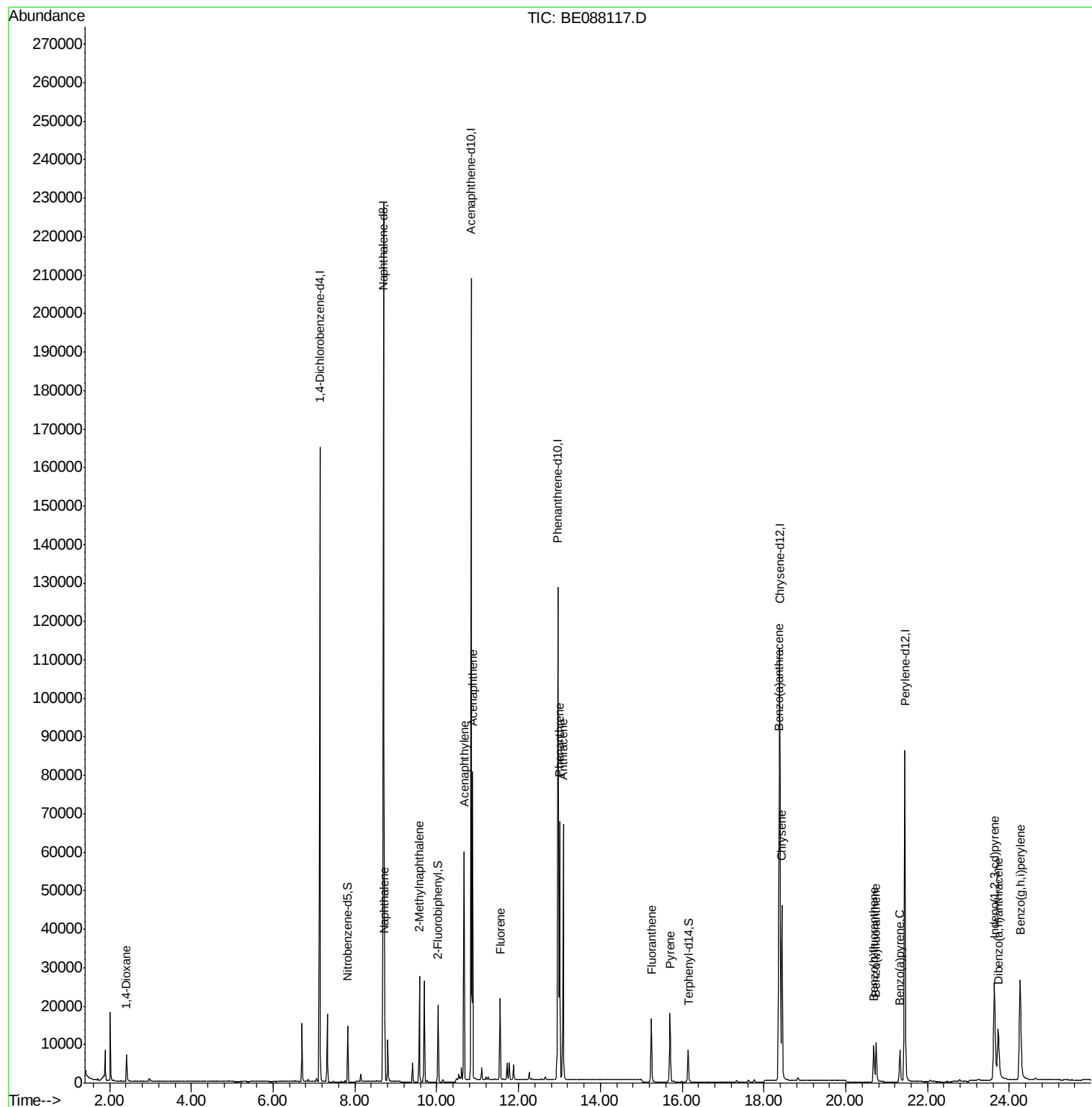
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.41	88	4007	0.51	ng	100
5) Naphthalene	8.72	128	22219	0.53	ng	100
6) 2-Methylnaphthalene	9.58	142	13393	0.54	ng	100
9) Acenaphthylene	10.67	152	74013	0.56	ng	100
10) Acenaphthene	10.88	154	11173	0.52	ng	99
11) Fluorene	11.55	166	12106	0.55	ng	99
13) Phenanthrene	13.01	178	86593	0.56	ng	96
14) Anthracene	13.09	178	67969	0.50	ng	99
15) Fluoranthene	15.25	202	16274	0.50	ng	100
17) Pyrene	15.70	202	17285	0.54	ng	100
19) Benzo(a)anthracene	18.36	228	54971	0.58	ng	100
20) Chrysene	18.44	228	55042	0.48	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	47365	0.50	ng	# 85
23) Benzo(b)fluoranthene	20.68	252	13616	0.64	ng	99
24) Benzo(k)fluoranthene	20.74	252	14612	0.50	ng	99
25) Benzo(a)pyrene	21.32	252	12565	0.69	ng	100
26) Dibenzo(a,h)anthracene	23.73	278	12192	0.63	ng	99
27) Benzo(g,h,i)perylene	24.26	276	53734	0.58	ng	100

(#) = 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: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

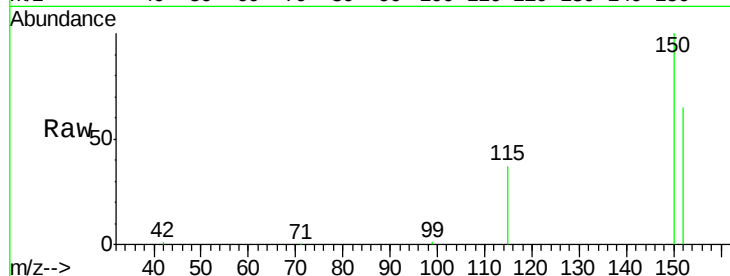
Tgt Ion:152 Resp: 55040

Ion Ratio Lower Upper

152 100

150 153.2 129.2 193.8

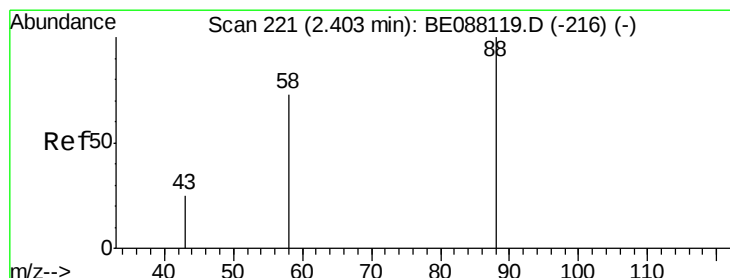
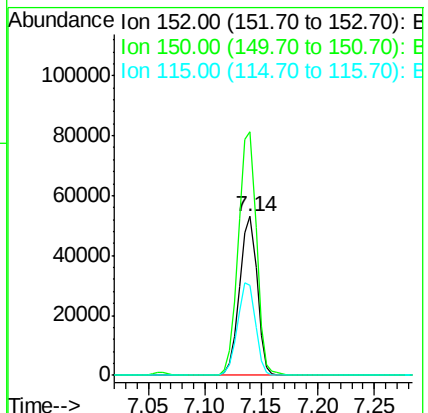
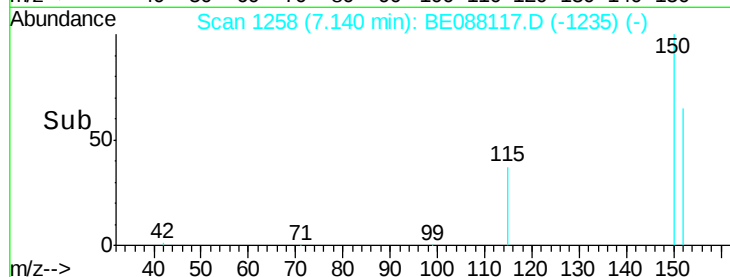
115 56.4 49.3 73.9



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: 0.51 ng

RT: 2.41 min Scan# 223

Delta R.T. 0.01 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

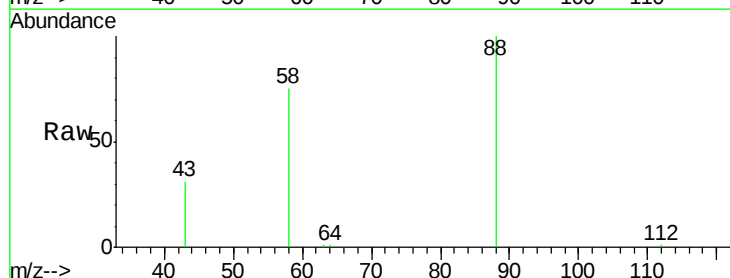
Tgt Ion: 88 Resp: 4007

Ion Ratio Lower Upper

88 100

58 73.9 59.5 89.3

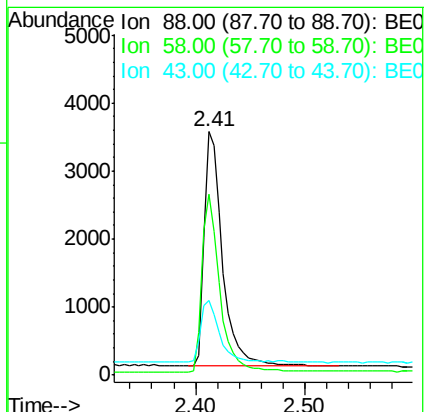
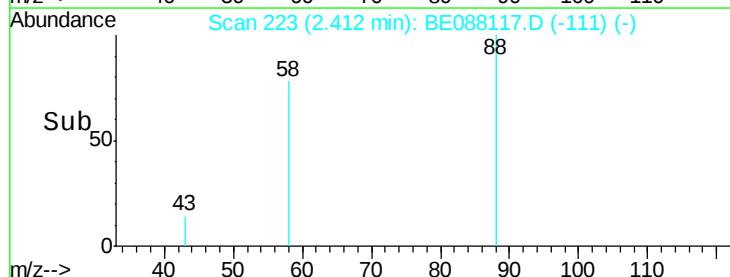
43 26.5 21.2 31.8

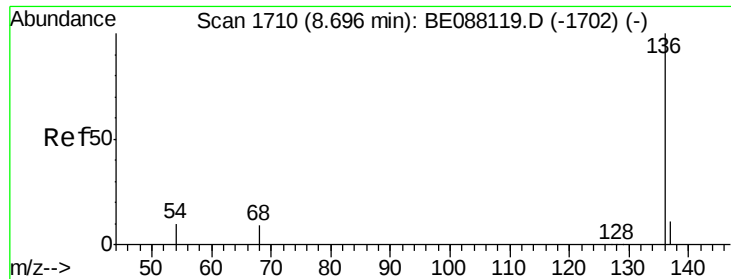


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

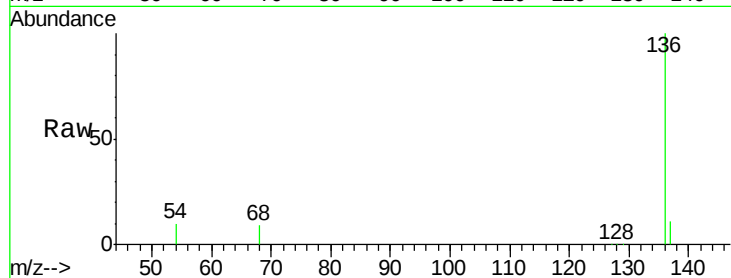
Tgt Ion: 136 Resp: 207410

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

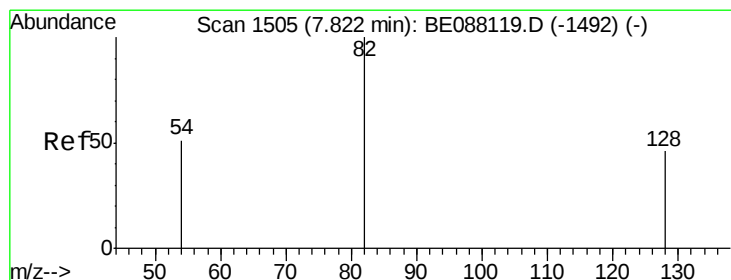
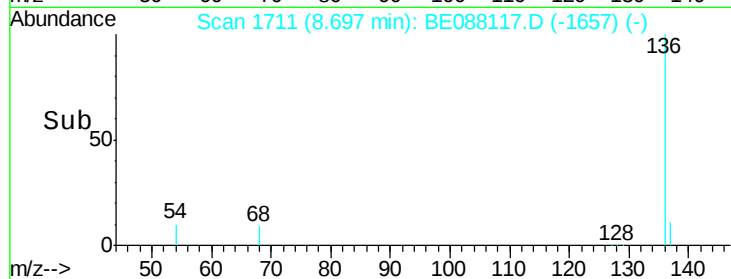
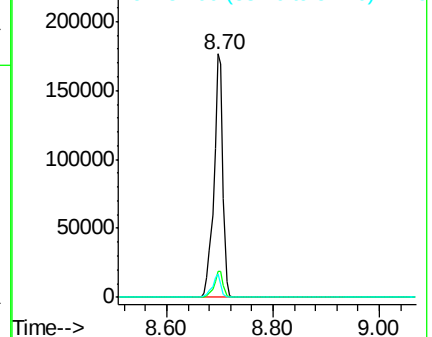
54 9.7 7.7 11.5



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: 0.61 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

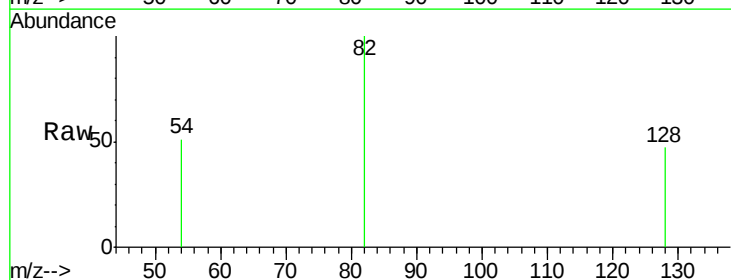
Tgt Ion: 82 Resp: 7614

Ion Ratio Lower Upper

82 100

128 46.8 37.1 55.7

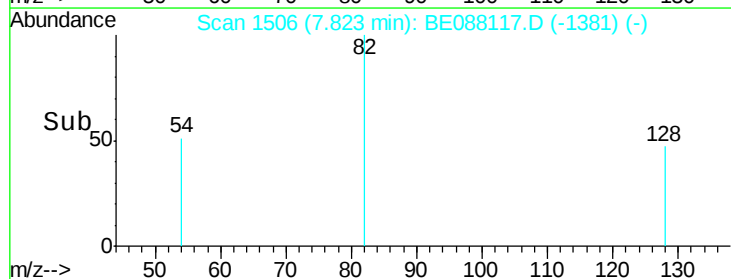
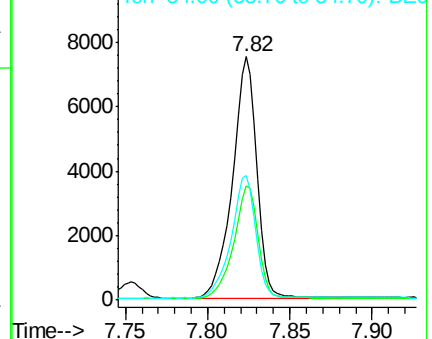
54 51.0 41.1 61.7

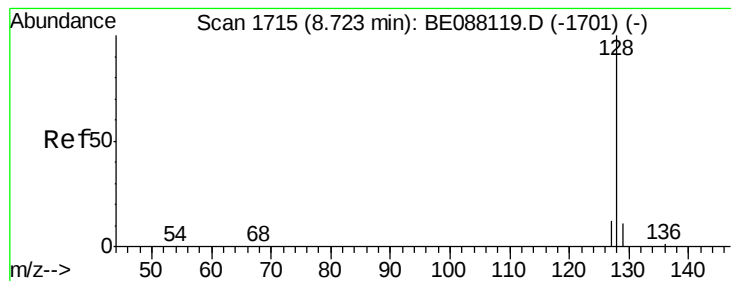


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.53 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.5

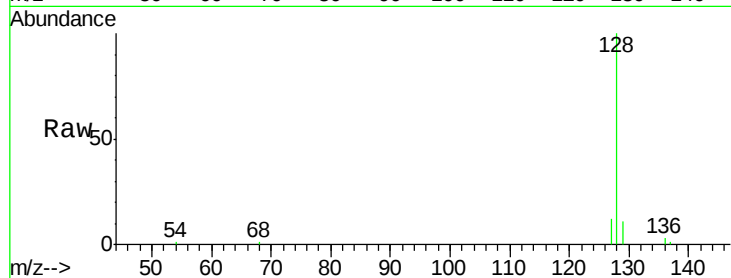
Tgt Ion:128 Resp: 22219

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

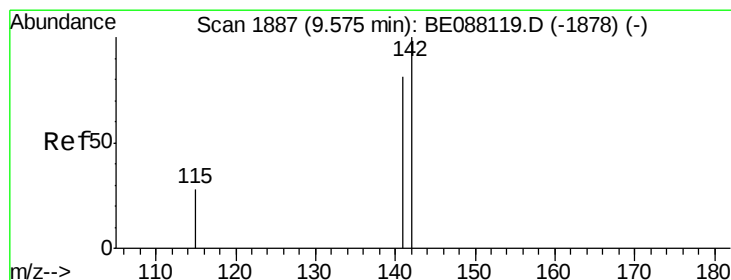
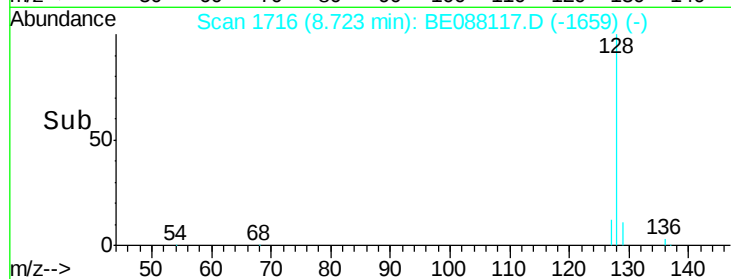
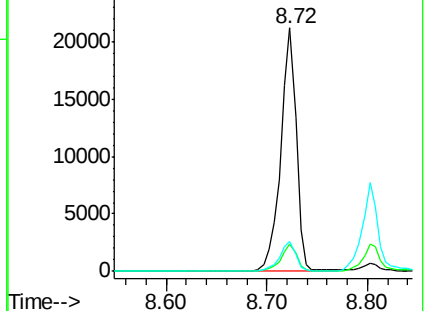
127 12.3 9.7 14.5



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: 0.54 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

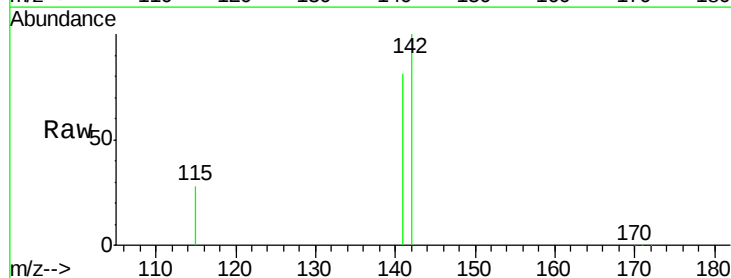
Tgt Ion:142 Resp: 13393

Ion Ratio Lower Upper

142 100

141 81.0 64.6 97.0

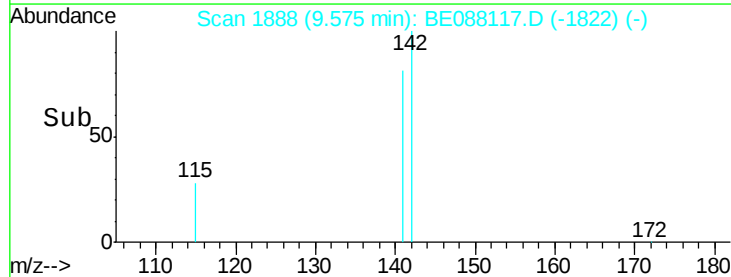
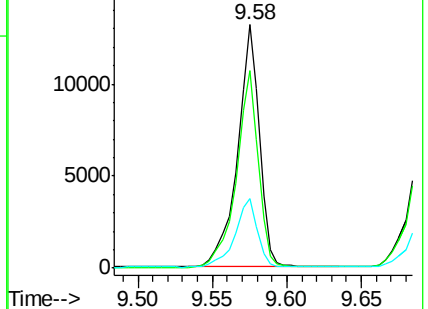
115 28.3 22.6 34.0

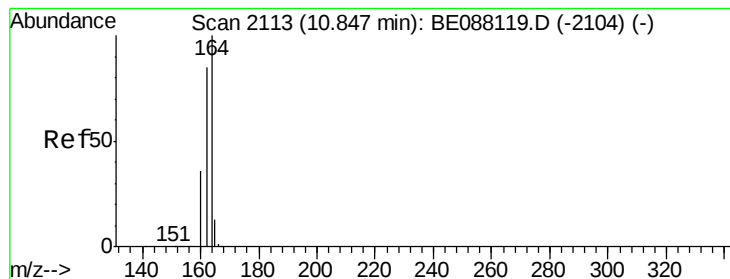


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

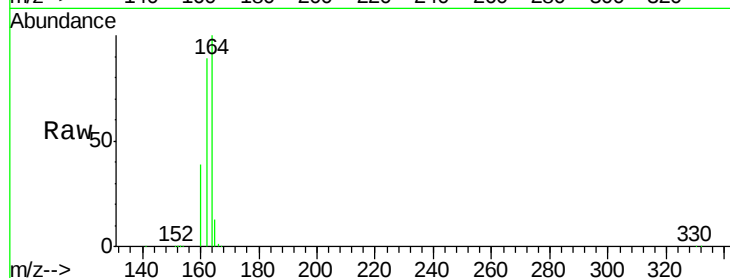
Tgt Ion:164 Resp: 92812

Ion Ratio Lower Upper

164 100

162 89.2 68.3 102.5

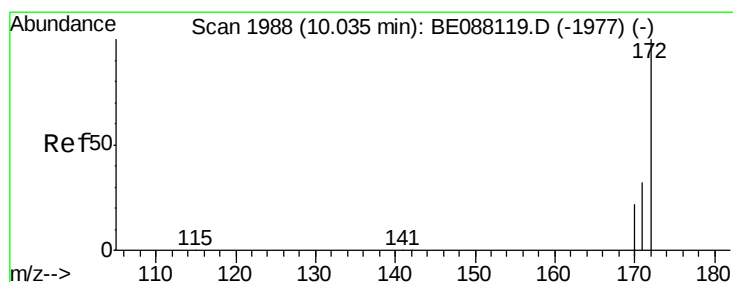
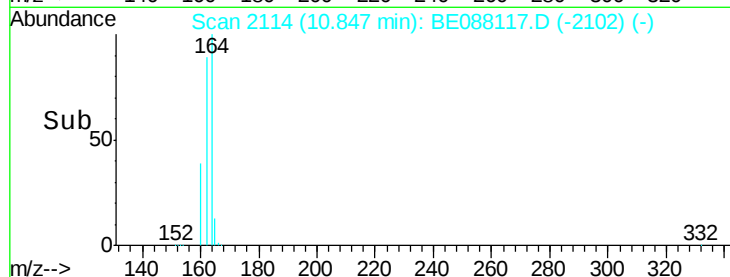
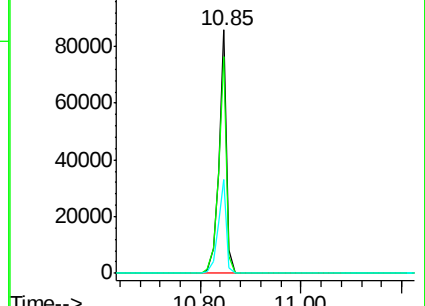
160 38.8 28.7 43.1



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: 0.52 ng

RT: 10.03 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

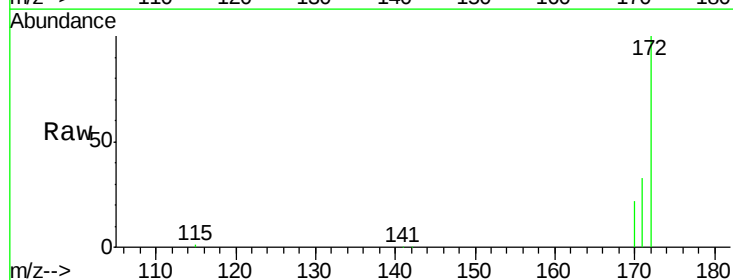
Tgt Ion:172 Resp: 13420

Ion Ratio Lower Upper

172 100

171 32.7 25.4 38.2

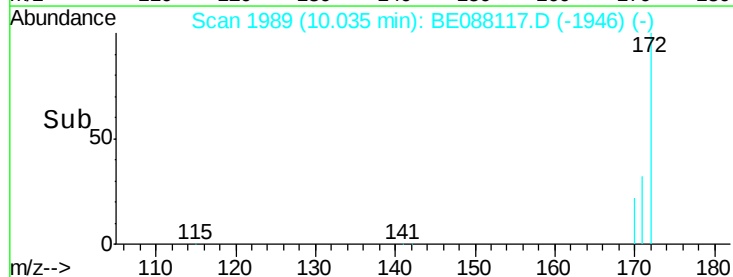
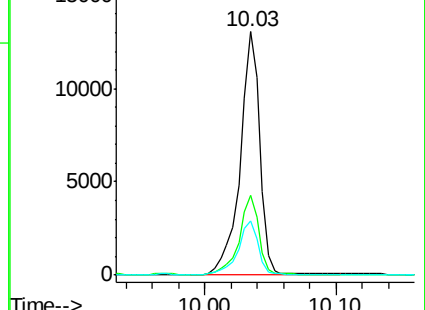
170 22.2 17.4 26.2

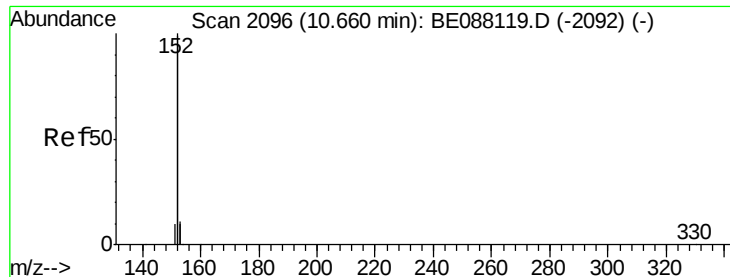


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.56 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

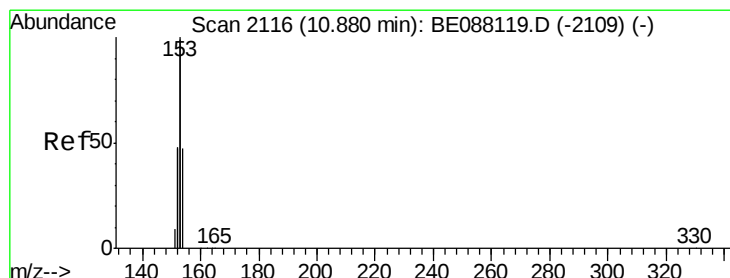
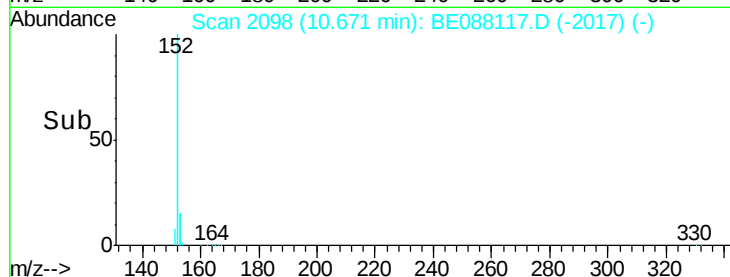
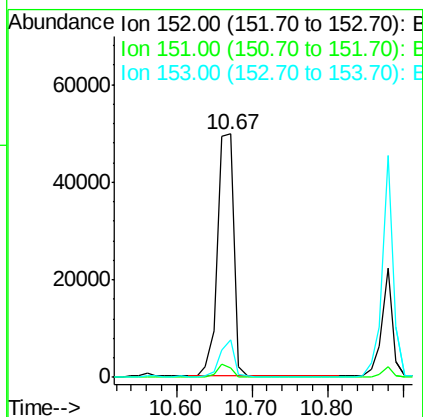
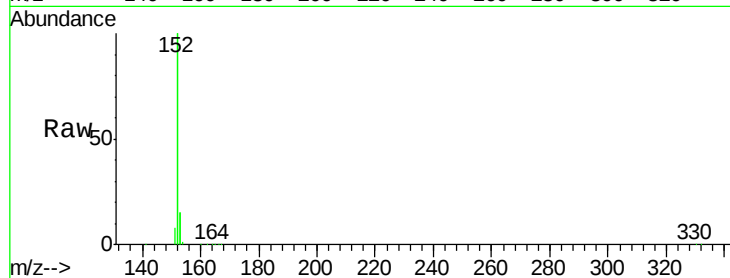
Tgt Ion:152 Resp: 74013

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

153 13.0 10.4 15.6



#10

Acenaphthene

Concen: 0.52 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

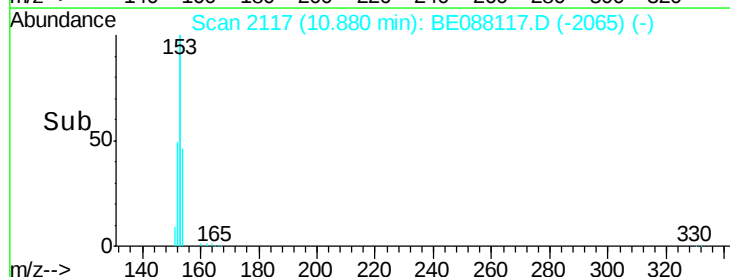
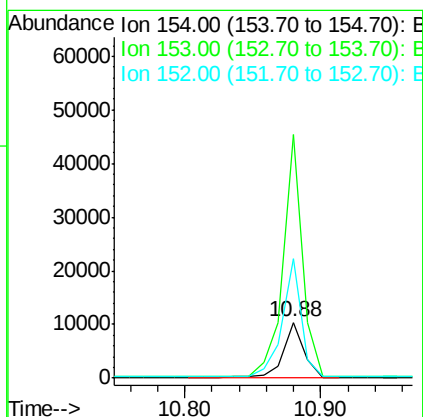
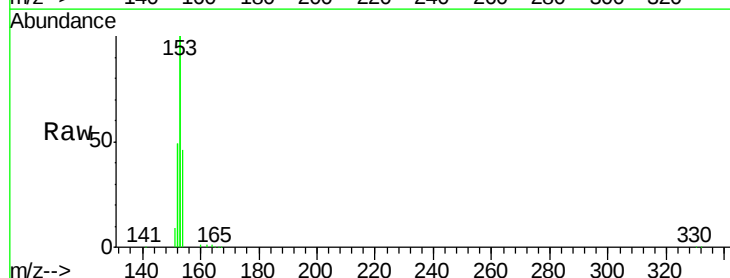
Tgt Ion:154 Resp: 11173

Ion Ratio Lower Upper

154 100

153 407.7 327.8 491.6

152 196.9 157.6 236.4





#11

Fluorene

Concen: 0.55 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

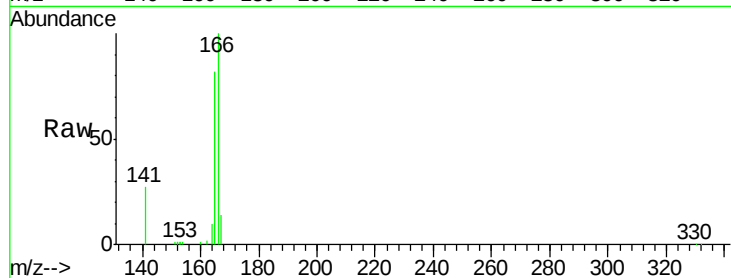
Tgt Ion:166 Resp: 12106

Ion Ratio Lower Upper

166 100

165 89.9 71.4 107.2

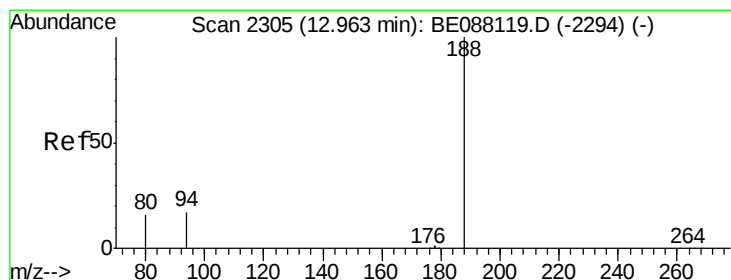
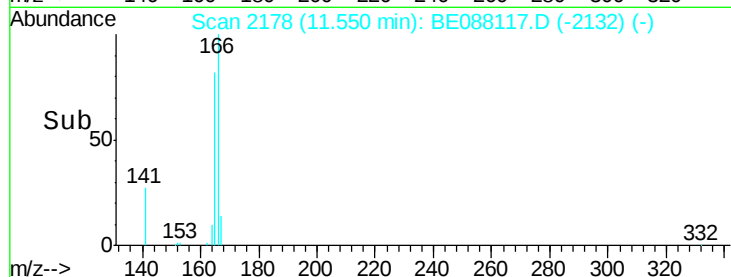
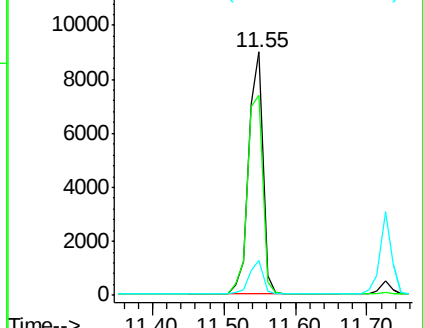
167 13.4 10.6 16.0



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: 12.96 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

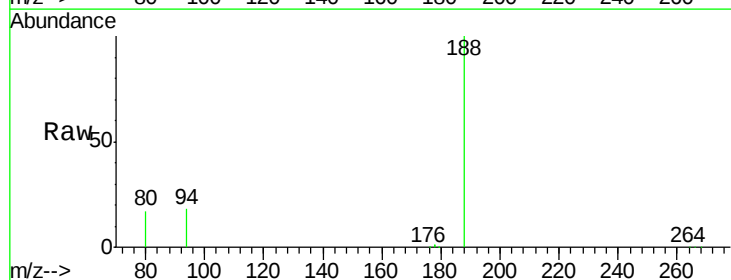
Tgt Ion:188 Resp: 165479

Ion Ratio Lower Upper

188 100

94 18.0 13.9 20.9

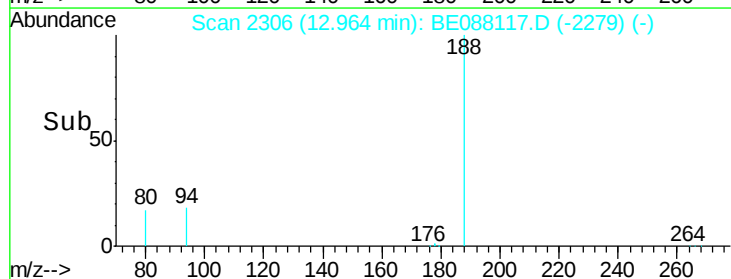
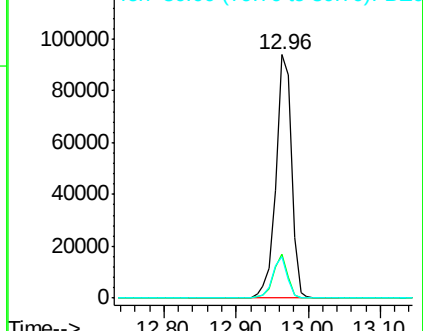
80 17.0 12.9 19.3

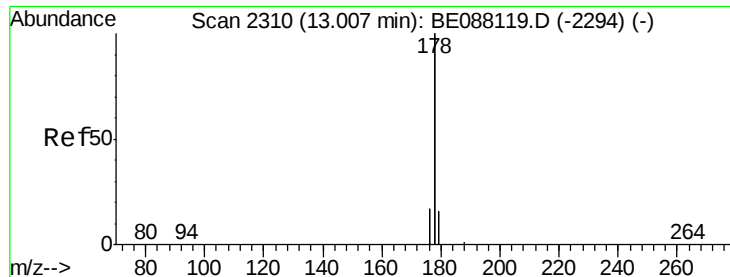


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.56 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

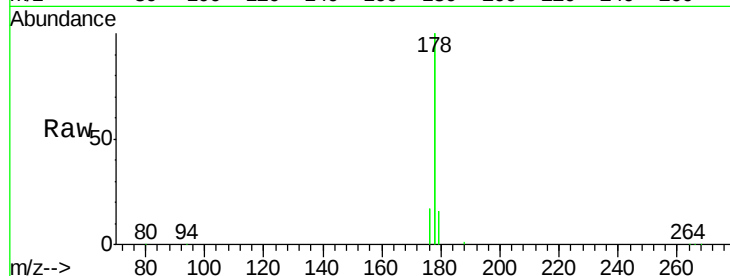
Tgt Ion:178 Resp: 86593

Ion Ratio Lower Upper

178 100

176 15.7 12.5 18.7

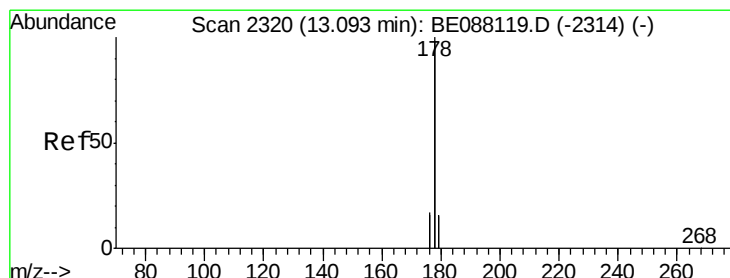
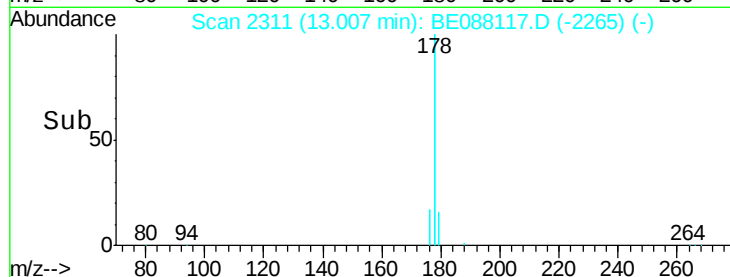
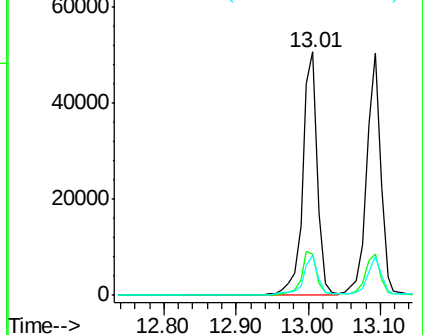
179 13.6 13.5 20.3



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: 0.50 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

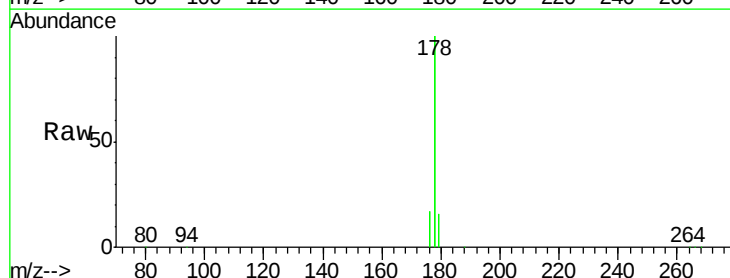
Tgt Ion:178 Resp: 67969

Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

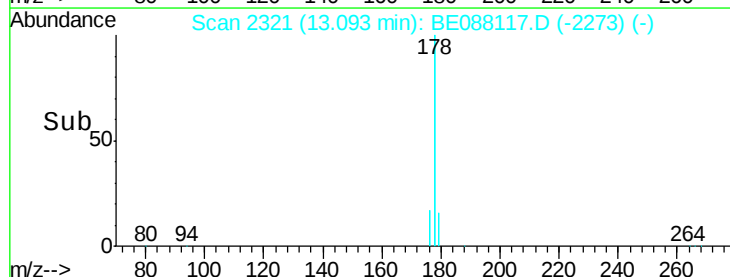
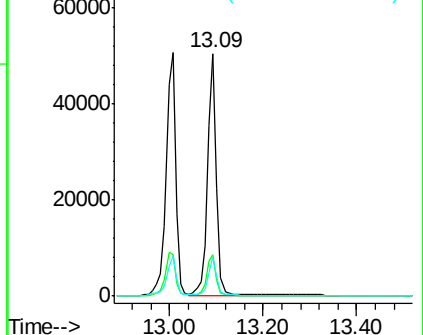
179 15.7 12.5 18.7

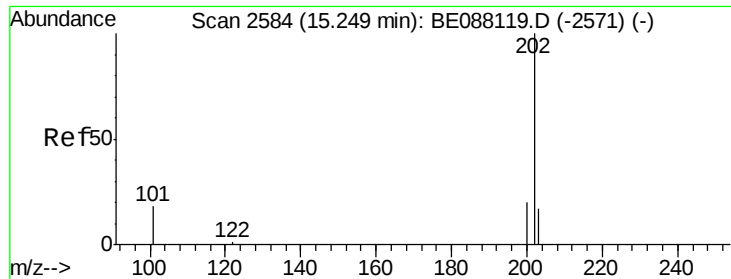


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

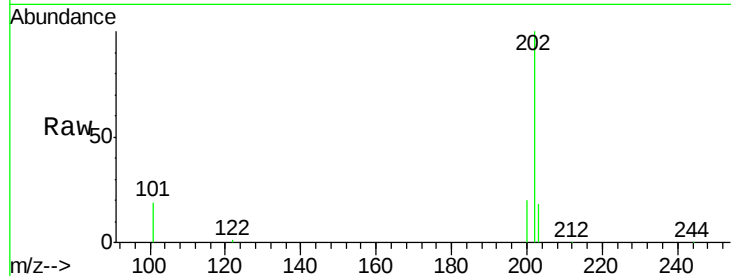




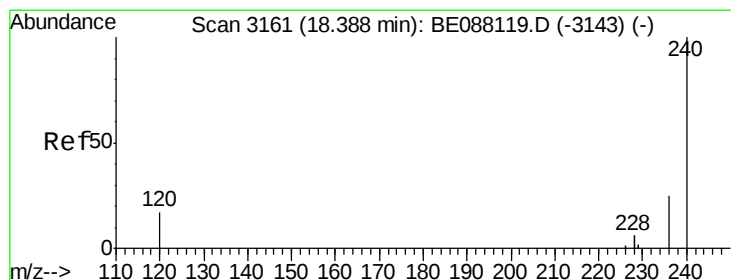
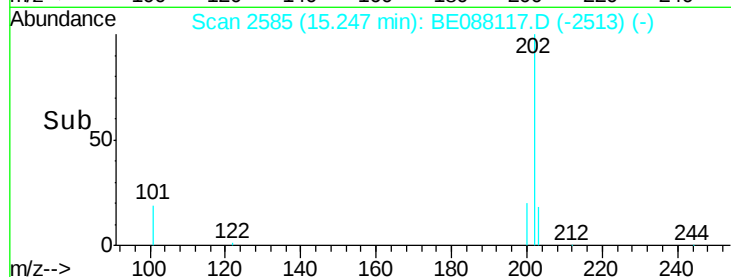
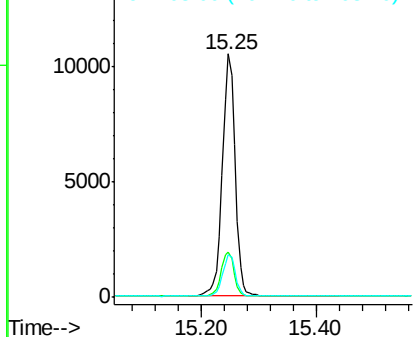
#15
 Fluoranthene
 Concen: 0.50 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088117.D
 Acq: 20 Oct 2014 20:42

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tgt Ion: 202 Resp: 16274
 Ion Ratio Lower Upper
 202 100
 101 18.5 14.8 22.2
 203 17.2 13.5 20.3

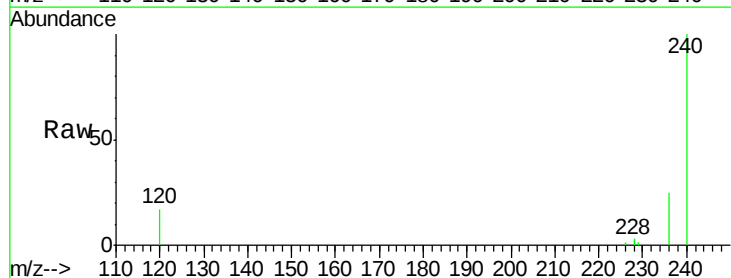


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

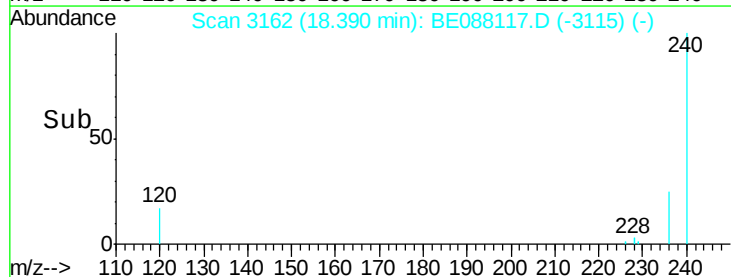
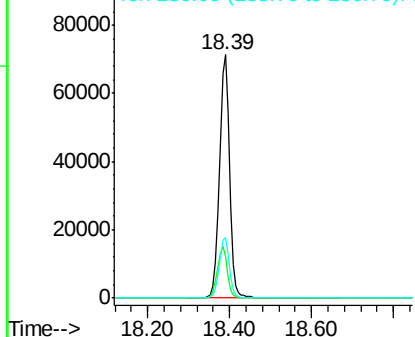


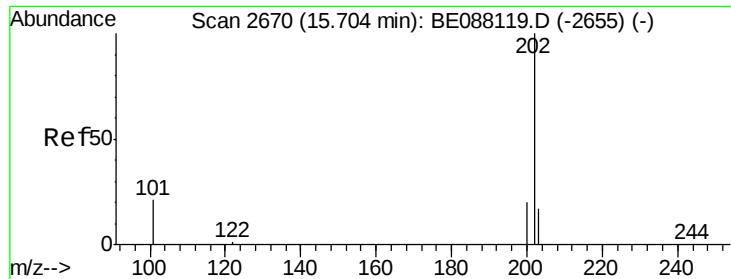
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3162
 Delta R.T. 0.00 min
 Lab File: BE088117.D
 Acq: 20 Oct 2014 20:42

Tgt Ion: 240 Resp: 124071
 Ion Ratio Lower Upper
 240 100
 120 17.0 13.9 20.9
 236 25.0 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

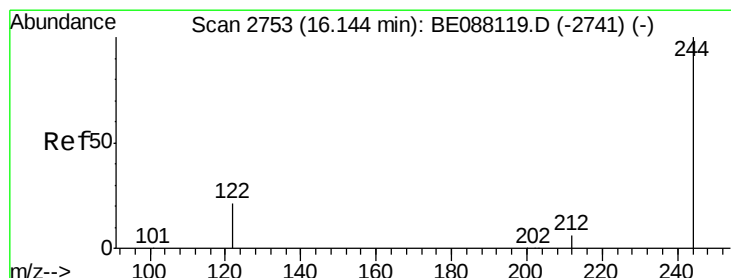
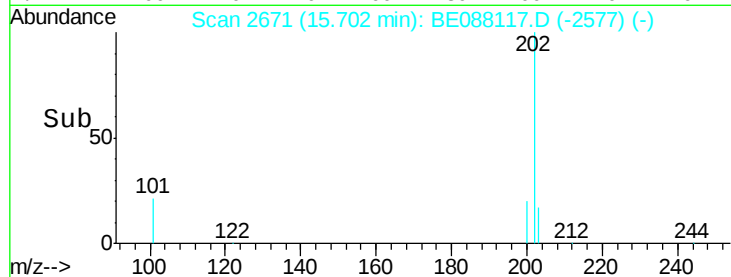
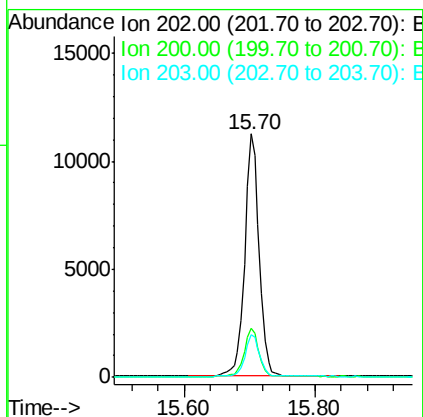
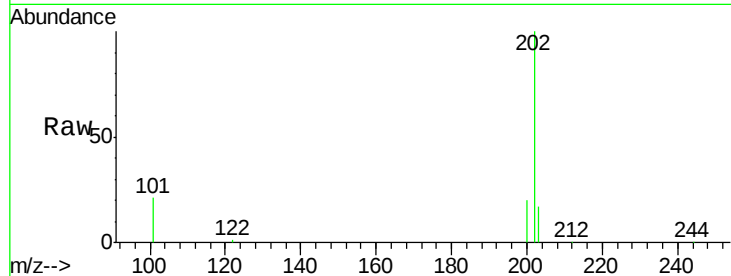




#17
 Pyrene
 Concen: 0.54 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088117.D
 Acq: 20 Oct 2014 20:42

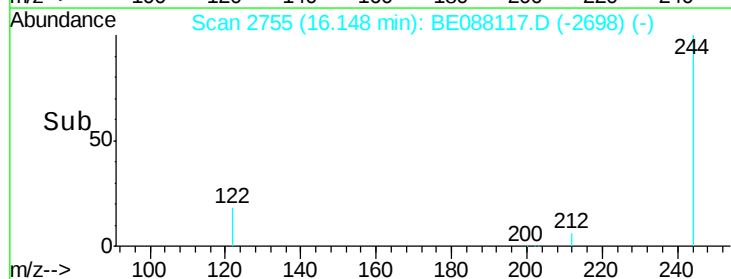
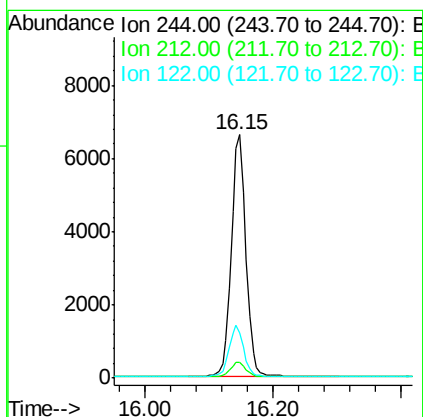
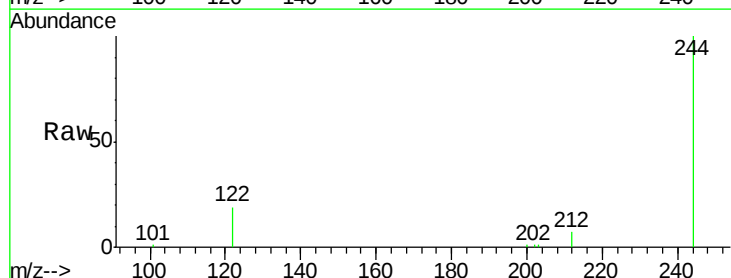
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.5

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.3	13.9	20.9



#18
 Terphenyl-d14
 Concen: 0.54 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088117.D
 Acq: 20 Oct 2014 20:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	18.7	17.5	26.3





#19

Benzo(a)anthracene

Concen: 0.58 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.5

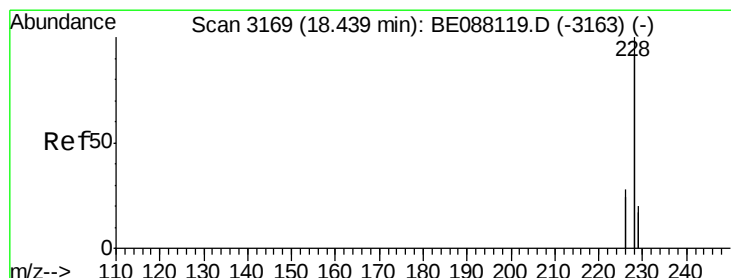
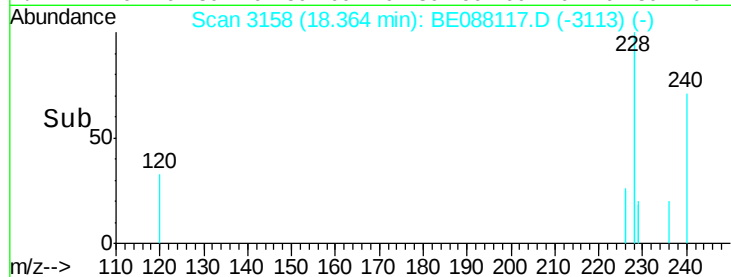
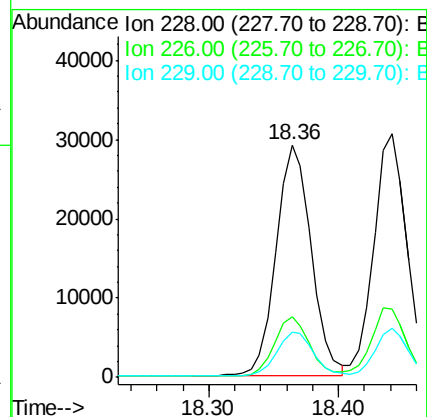
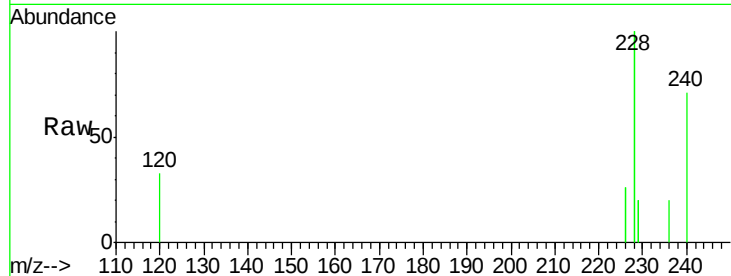
Tgt Ion:228 Resp: 54971

Ion Ratio Lower Upper

228 100

226 26.3 20.8 31.2

229 19.6 15.6 23.4



#20

Chrysene

Concen: 0.48 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

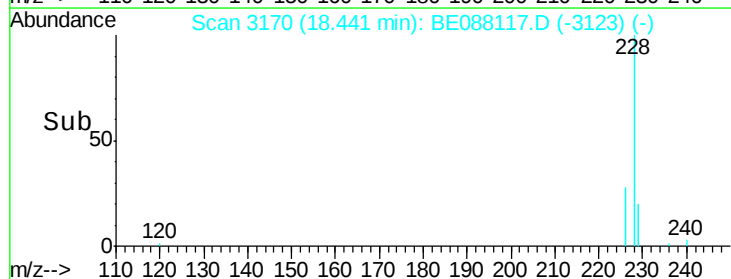
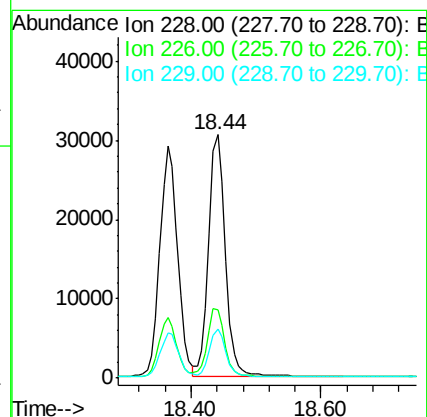
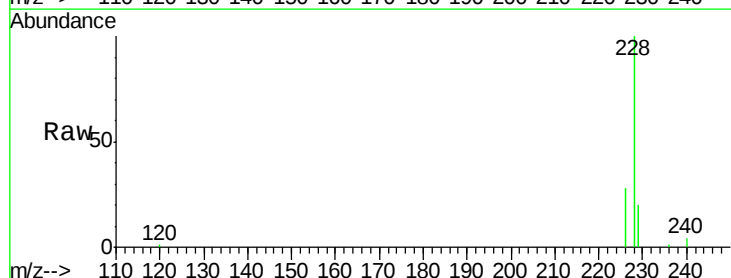
Tgt Ion:228 Resp: 55042

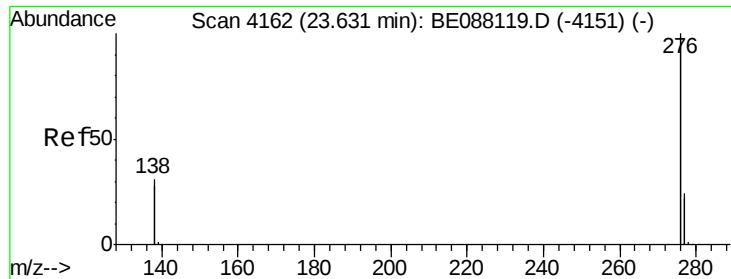
Ion Ratio Lower Upper

228 100

226 28.0 22.7 34.1

229 19.9 15.8 23.6

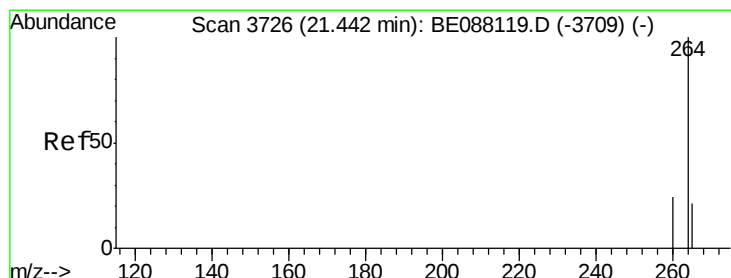
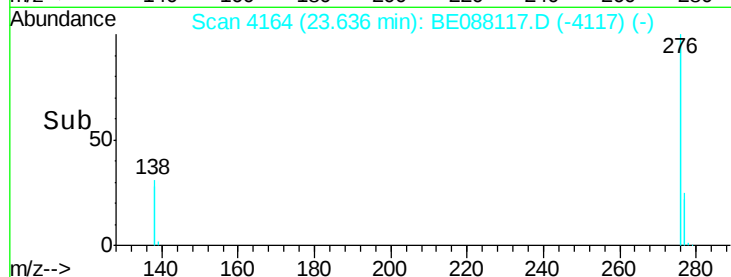
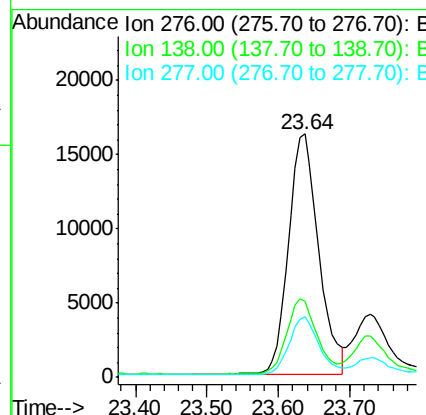
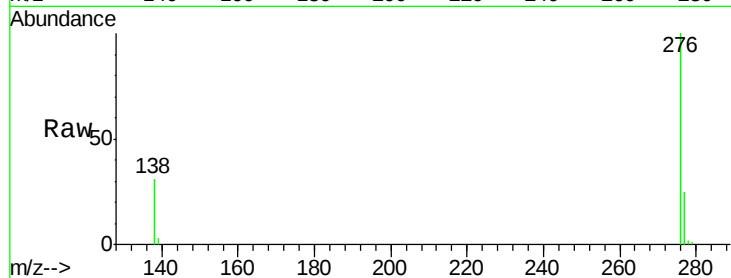




#21
Indeno(1,2,3-cd)pyrene
Concen: 0.50 ng
RT: 23.64 min Scan# 4164
Delta R.T. 0.01 min
Lab File: BE088117.D
Acq: 20 Oct 2014 20:42

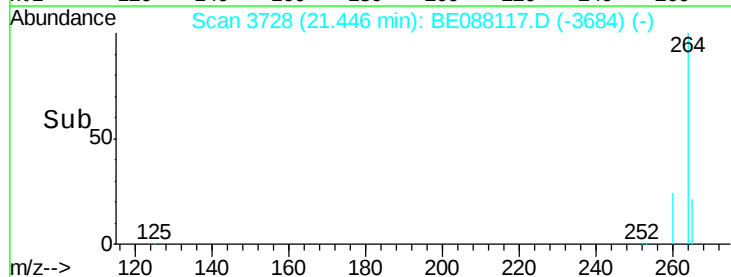
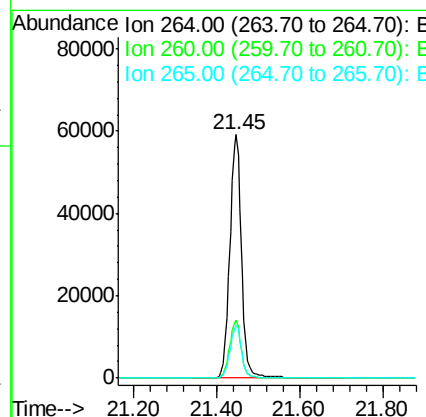
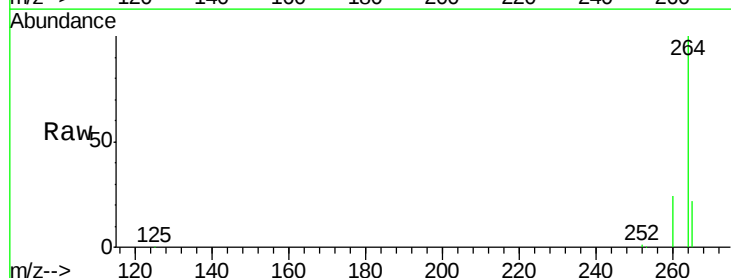
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.5

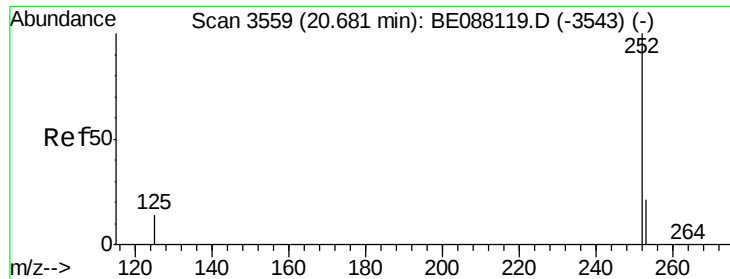
Tgt Ion: 276 Resp: 47365
Ion Ratio Lower Upper
276 100
138 31.1 18.5 27.7#
277 24.0 14.6 21.8#



#22
Perylene-d12
Concen: 5.00 ng
RT: 21.45 min Scan# 3728
Delta R.T. 0.00 min
Lab File: BE088117.D
Acq: 20 Oct 2014 20:42

Tgt Ion: 264 Resp: 113013
Ion Ratio Lower Upper
264 100
260 23.7 19.0 28.4
265 21.5 17.2 25.8





#23

Benzo(b)fluoranthene

Concen: 0.64 ng

RT: 20.68 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

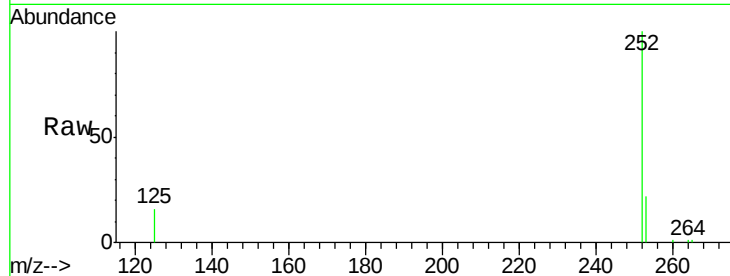
Tgt Ion:252 Resp: 13616

Ion Ratio Lower Upper

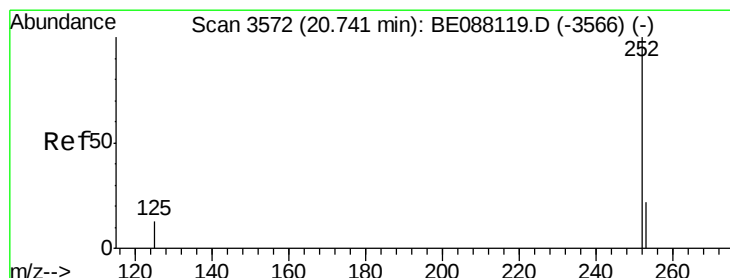
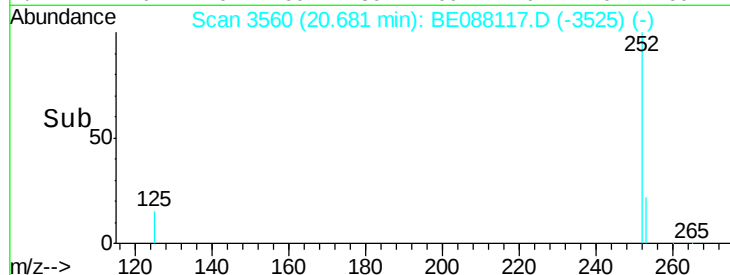
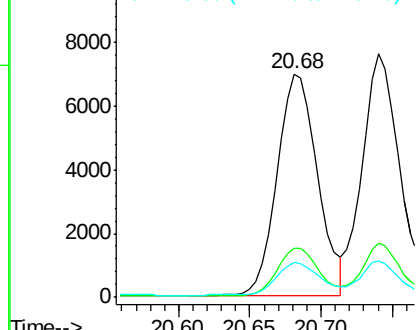
252 100

253 22.1 17.4 26.0

125 15.6 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: 0.50 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

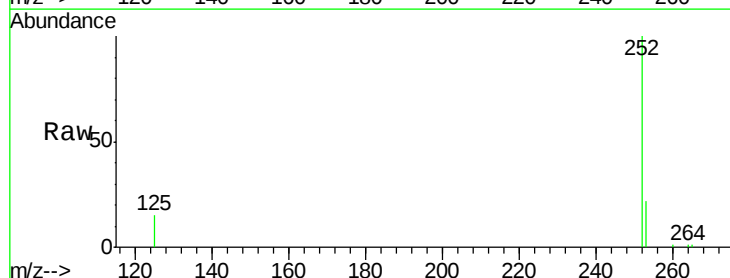
Tgt Ion:252 Resp: 14612

Ion Ratio Lower Upper

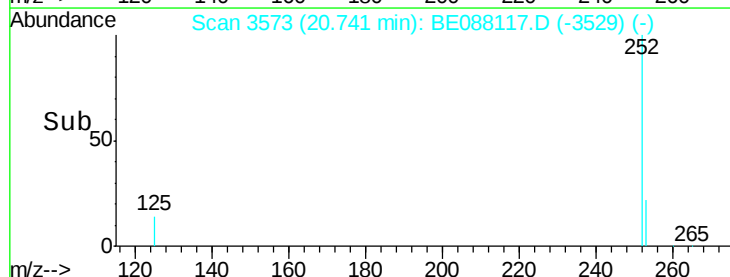
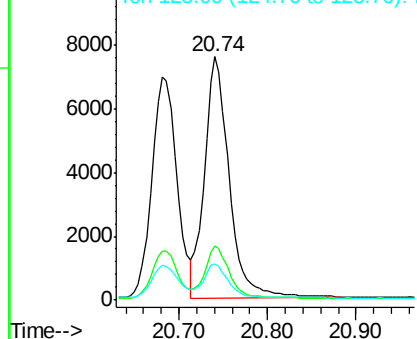
252 100

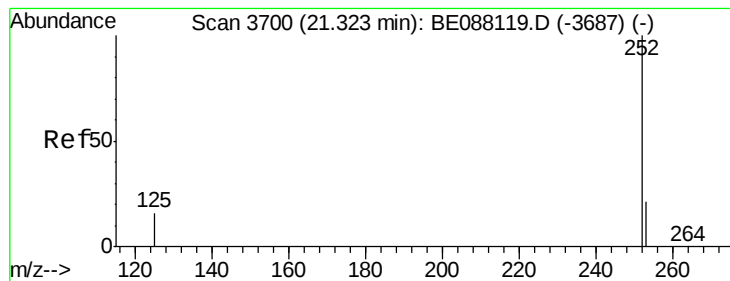
253 22.1 17.6 26.4

125 14.9 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: 0.69 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5

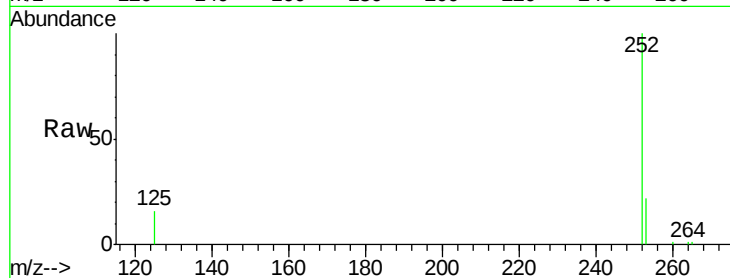
Tgt Ion:252 Resp: 12565

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

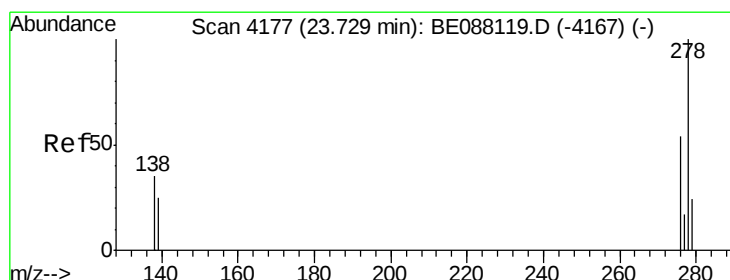
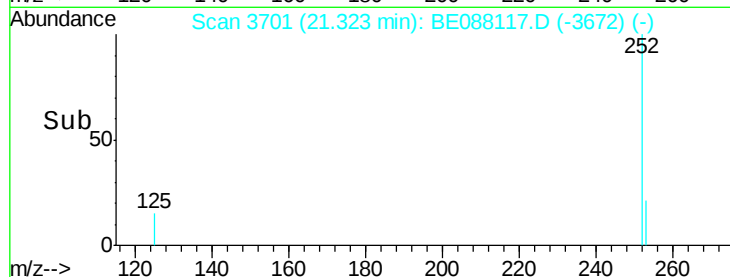
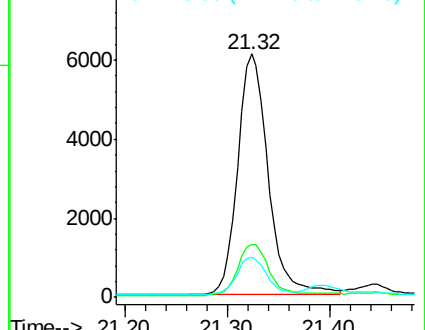
125 16.4 13.0 19.6



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: 0.63 ng

RT: 23.73 min Scan# 4179

Delta R.T. 0.01 min

Lab File: BE088117.D

Acq: 20 Oct 2014 20:42

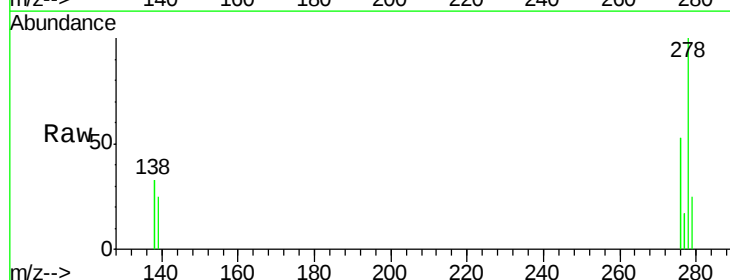
Tgt Ion:278 Resp: 12192

Ion Ratio Lower Upper

278 100

139 25.4 20.9 31.3

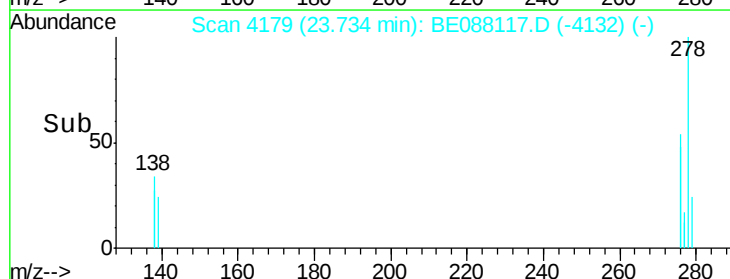
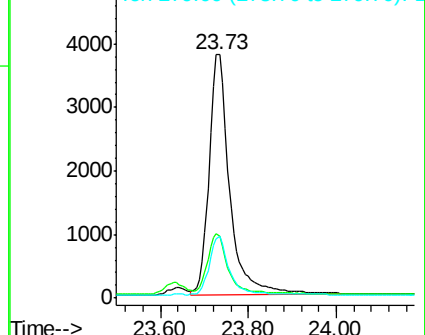
279 25.2 19.8 29.8

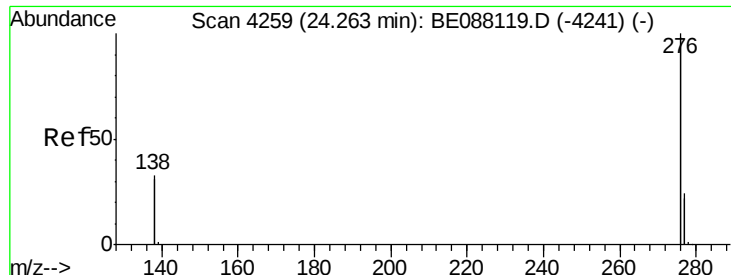


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.58 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088117.D

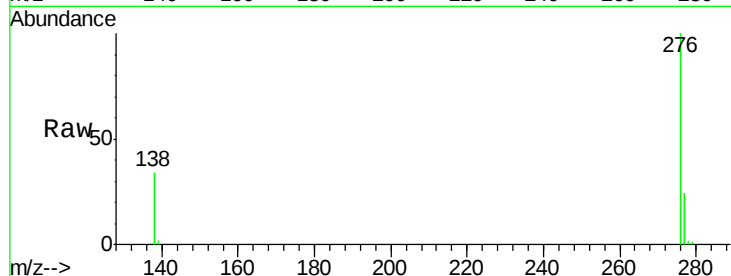
Acq: 20 Oct 2014 20:42

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.5



Tgt Ion: 276 Resp: 53734

Ion Ratio Lower Upper

276 100

277 24.1 19.2 28.8

138 33.5 26.6 40.0

