

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102714\
 Data File : BE088316.D
 Acq On : 27 Oct 2014 15:46
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

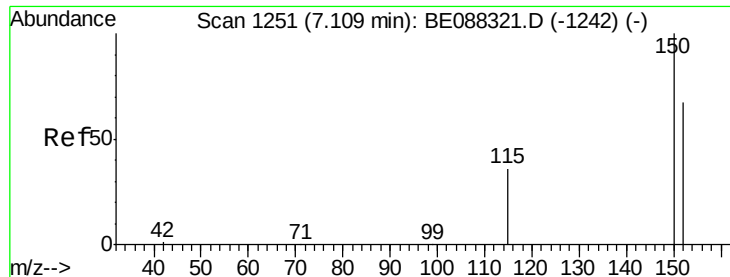
Quant Time: Oct 28 02:01:18 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 01:58:22 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	30259	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	119313	5.00	ng	0.00
7) Acenaphthene-d10	10.81	164	58201	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	120391	5.00	ng	0.00
16) Chrysene-d12	18.35	240	70930	5.00	ng	0.00
22) Perylene-d12	21.41	264	58467	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.79	82	9271	1.03	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	17325	1.07	ng	0.00
18) Terphenyl-d14	16.11	244	14209	1.08	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.27	88	4529	1.06	ng	99
5) Naphthalene	8.69	128	25920	1.04	ng	99
6) 2-Methylnaphthalene	9.55	142	16565	1.02	ng	97
9) Acenaphthylene	10.64	152	101591	1.11	ng	100
10) Acenaphthene	10.85	154	14644	1.08	ng	100
11) Fluorene	11.52	166	16764	1.10	ng	99
13) Phenanthrene	12.96	178	118985	1.07	ng	99
14) Anthracene	13.06	178	95263	1.05	ng	99
15) Fluoranthene	15.20	202	22320	1.10	ng	100
17) Pyrene	15.66	202	23798	1.11	ng	100
19) Benzo(a)anthracene	18.33	228	73722	1.14	ng	98
20) Chrysene	18.40	228	76028	1.20	ng	99
21) Indeno(1,2,3-cd)pyrene	23.58	276	56977	0.93	ng	100
23) Benzo(b)fluoranthene	20.65	252	17115	1.24	ng	100
24) Benzo(k)fluoranthene	20.70	252	17814	1.23	ng	100
25) Benzo(a)pyrene	21.29	252	14582	1.14	ng	100
26) Dibenzo(a,h)anthracene	23.68	278	14454	1.19	ng	100
27) Benzo(g,h,i)perylene	24.22	276	63037	1.18	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1251

Delta R.T. -0.00 min

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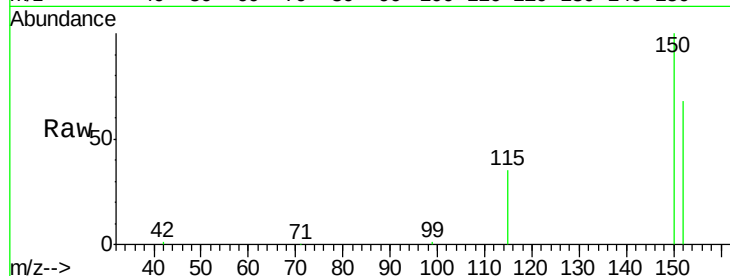
Tgt Ion:152 Resp: 30259

Ion Ratio Lower Upper

152 100

150 147.4 119.3 178.9

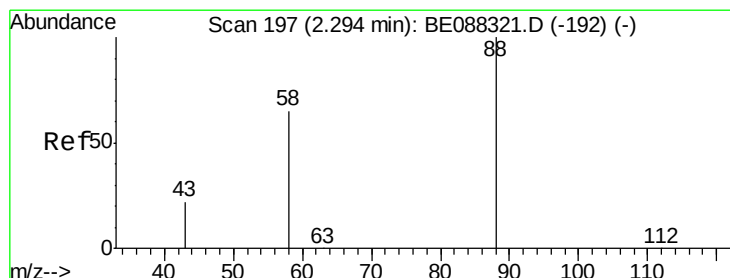
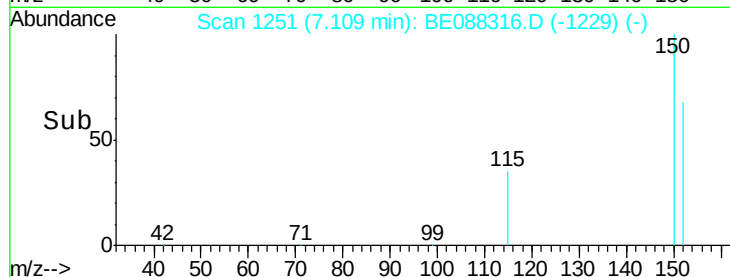
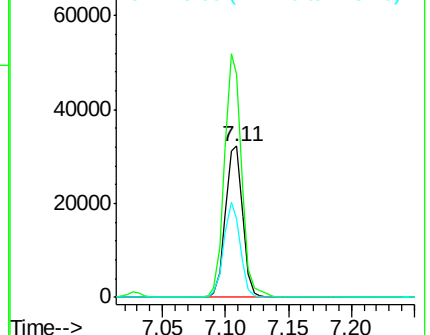
115 51.9 42.6 64.0



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: 1.06 ng

RT: 2.27 min Scan# 192

Delta R.T. -0.02 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

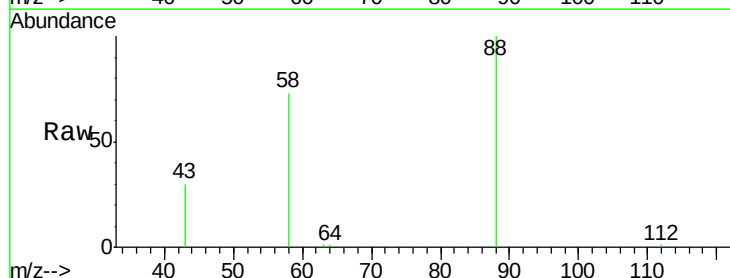
Tgt Ion: 88 Resp: 4529

Ion Ratio Lower Upper

88 100

58 75.3 59.4 89.0

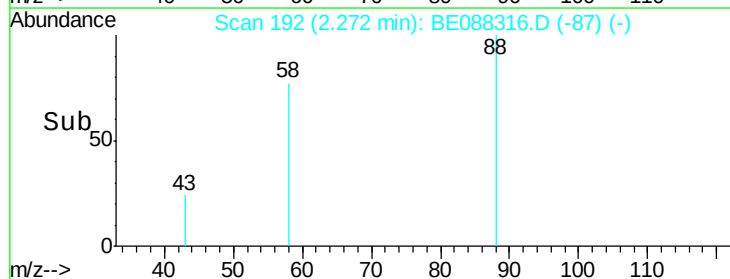
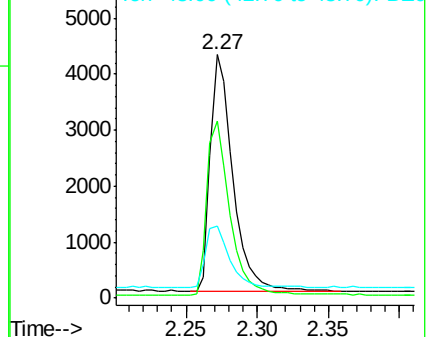
43 27.4 21.4 32.2

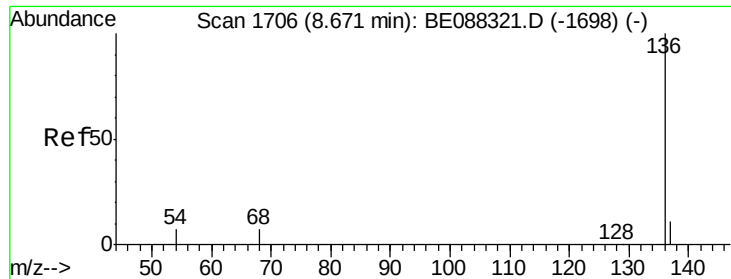


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

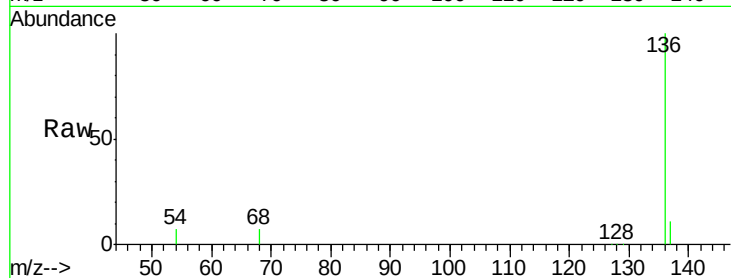




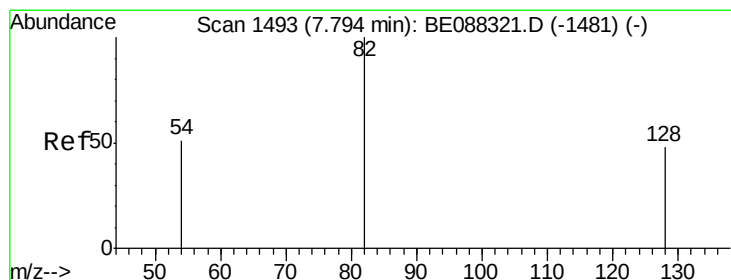
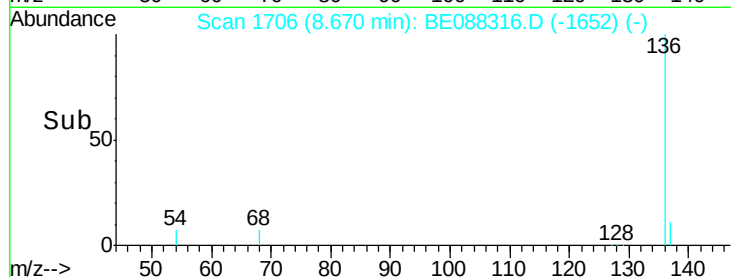
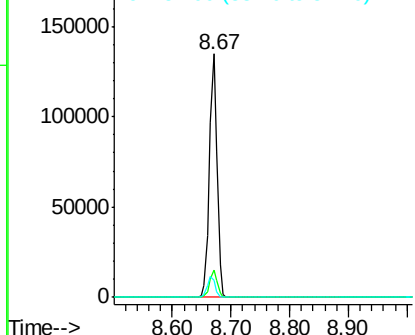
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088316.D
Acq: 27 Oct 2014 15:46

Instrument :
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ClientSampleId :
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Tgt Ion: 136 Resp: 119313
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.9 5.5 8.3

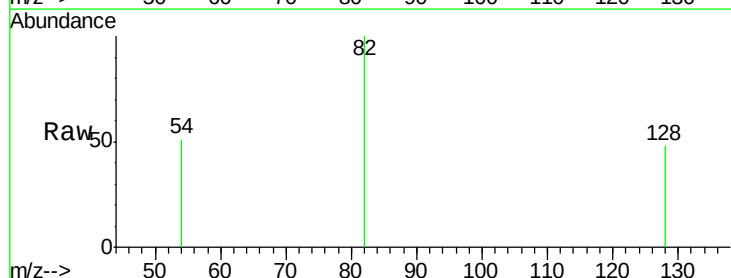


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): E

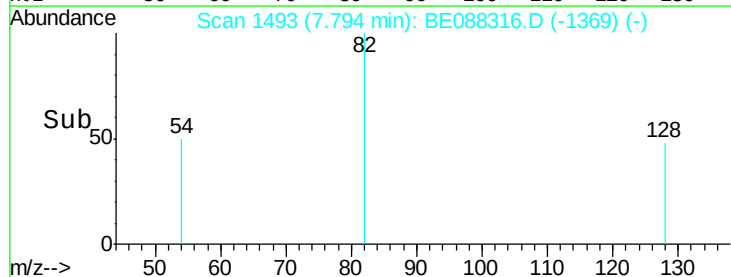
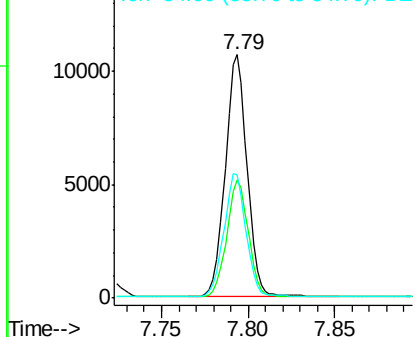


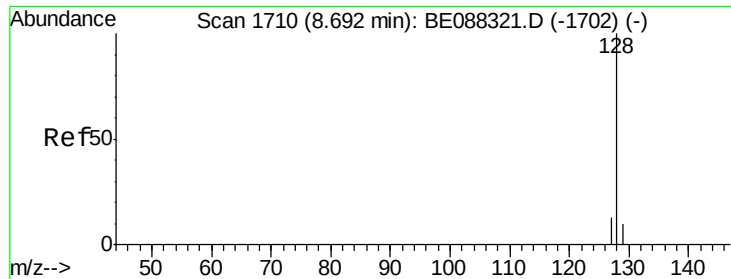
#4
Nitrobenzene-d5
Concen: 1.03 ng
RT: 7.79 min Scan# 1493
Delta R.T. -0.00 min
Lab File: BE088316.D
Acq: 27 Oct 2014 15:46

Tgt Ion: 82 Resp: 9271
Ion Ratio Lower Upper
82 100
128 48.4 38.7 58.1
54 50.8 41.0 61.4



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





#5

Naphthalene

Concen: 1.04 ng

RT: 8.69 min Scan# 1710

Delta R.T. -0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

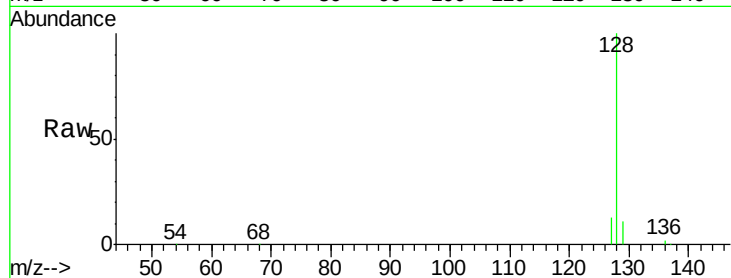
Tgt Ion:128 Resp: 25920

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

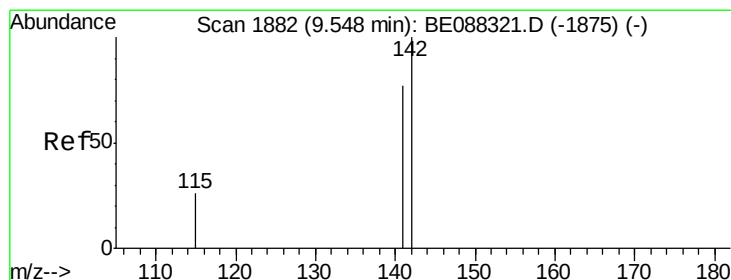
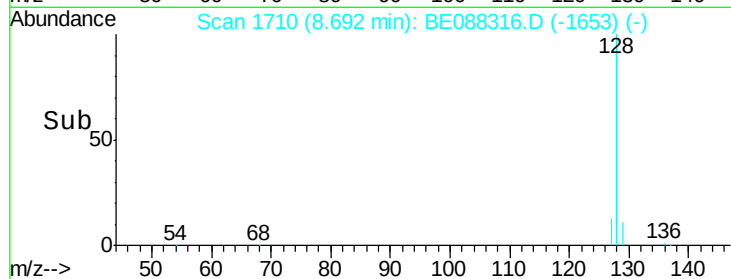
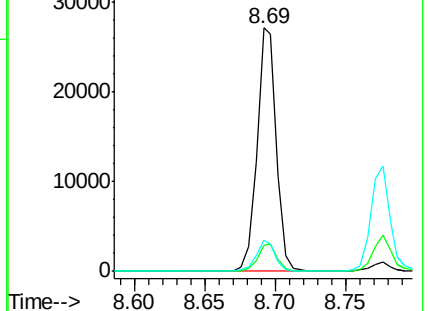
127 13.0 10.2 15.2



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: 1.02 ng

RT: 9.55 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

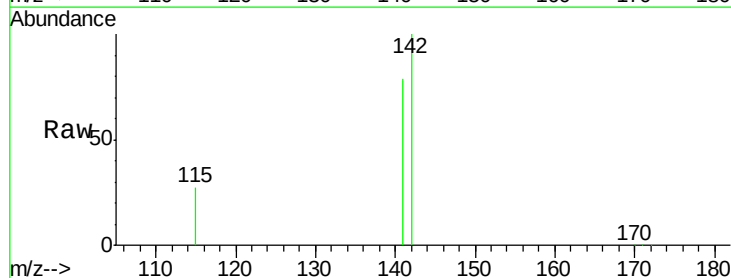
Tgt Ion:142 Resp: 16565

Ion Ratio Lower Upper

142 100

141 79.4 61.4 92.0

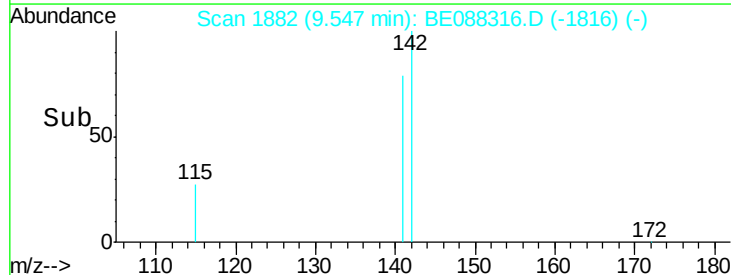
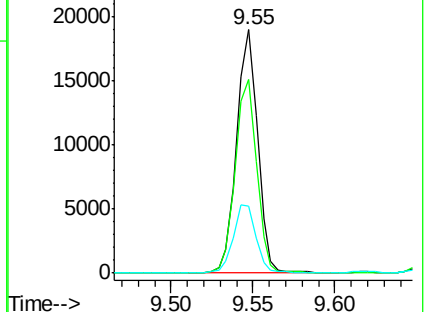
115 27.3 21.0 31.6

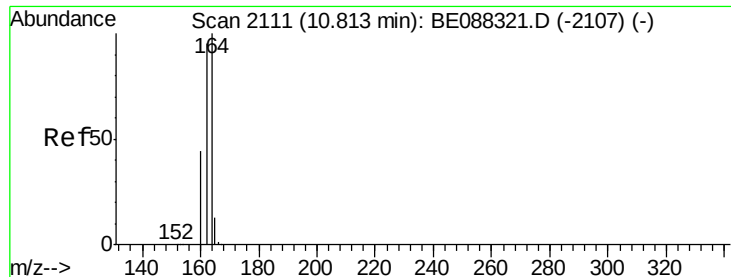


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.81 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

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ClientSampleId :

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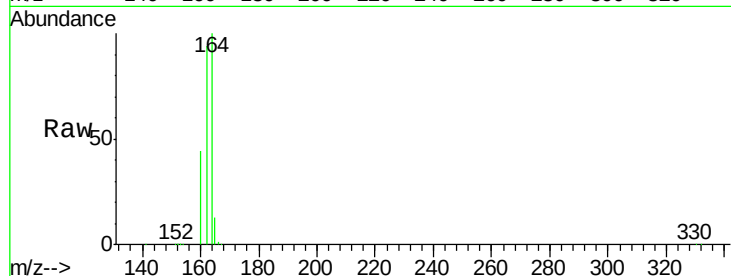
Tgt Ion:164 Resp: 58201

Ion Ratio Lower Upper

164 100

162 93.8 75.7 113.5

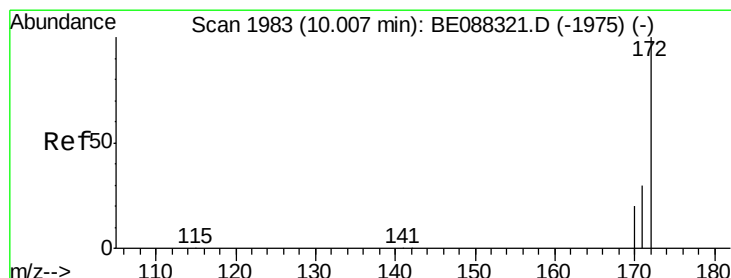
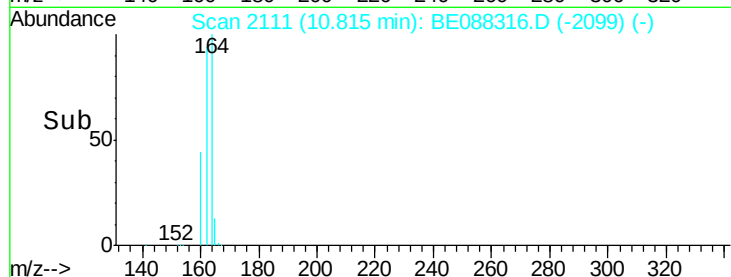
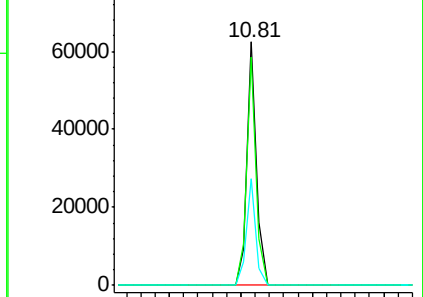
160 43.7 35.6 53.4



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: 1.07 ng

RT: 10.01 min Scan# 1983

Delta R.T. -0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

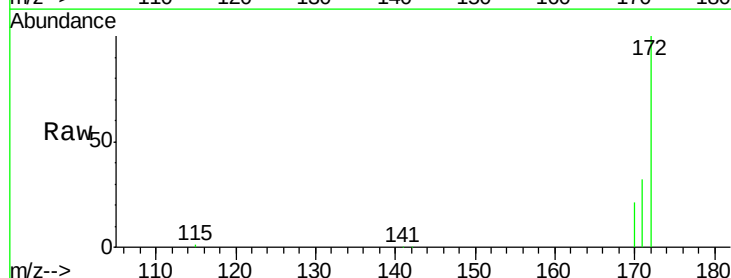
Tgt Ion:172 Resp: 17325

Ion Ratio Lower Upper

172 100

171 31.5 24.5 36.7

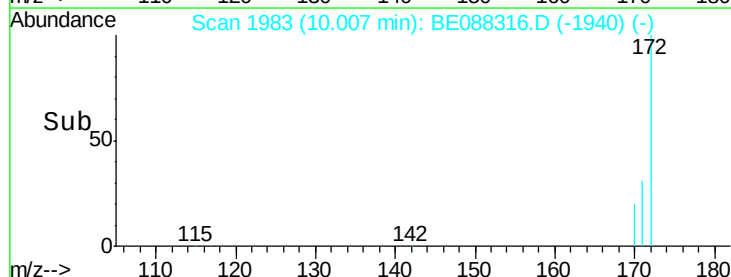
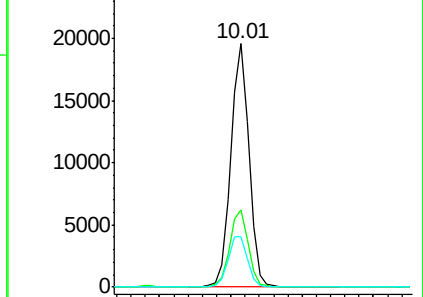
170 20.5 15.8 23.6

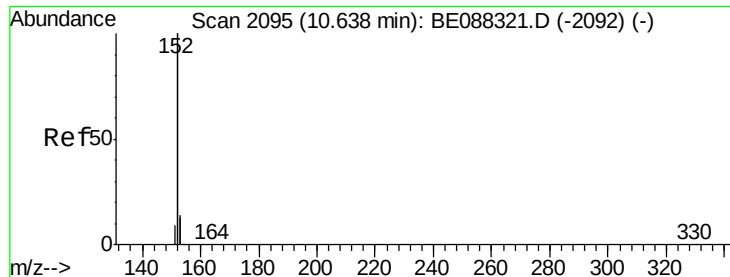


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.11 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

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ClientSampleId :

SSTDCCC001

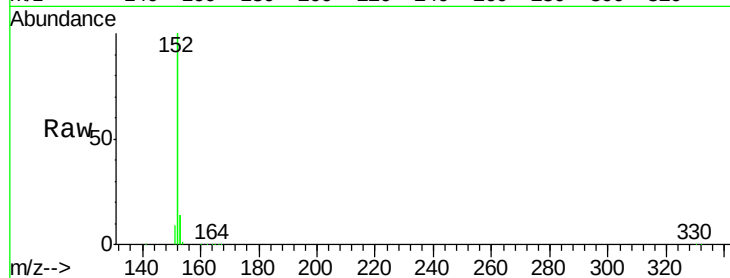
Tgt Ion:152 Resp: 101591

Ion Ratio Lower Upper

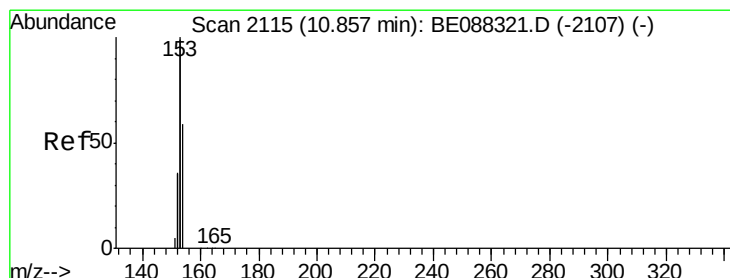
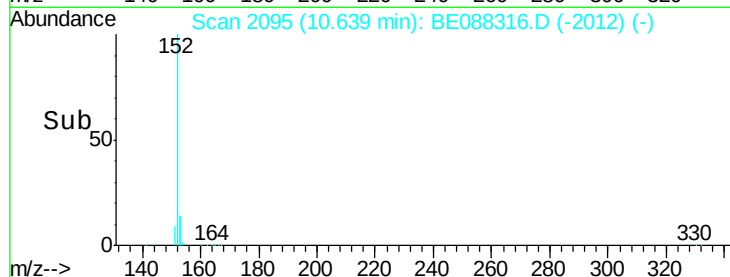
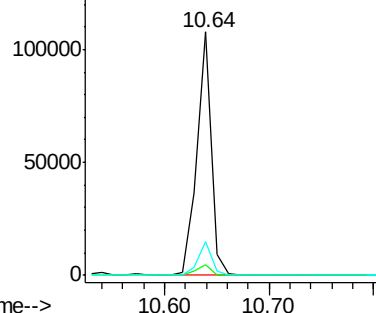
152 100

151 4.6 3.7 5.5

153 13.1 10.5 15.7



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: 1.08 ng

RT: 10.85 min Scan# 2114

Delta R.T. -0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

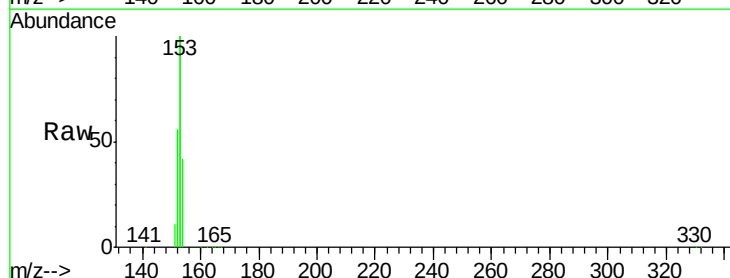
Tgt Ion:154 Resp: 14644

Ion Ratio Lower Upper

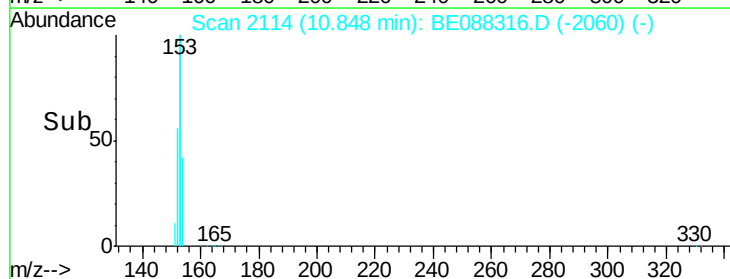
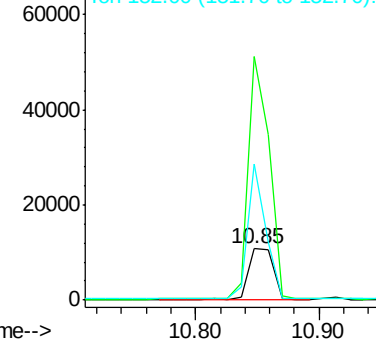
154 100

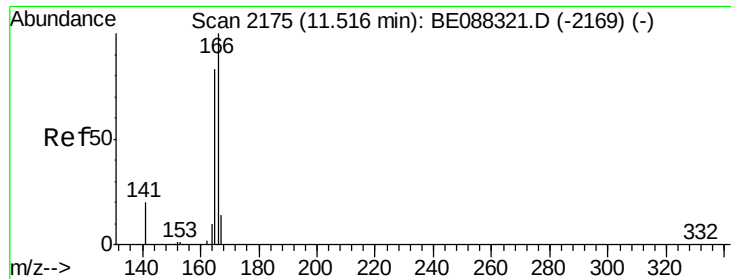
153 403.9 323.8 485.6

152 193.7 154.8 232.2



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: 1.10 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

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SSTDCCC001

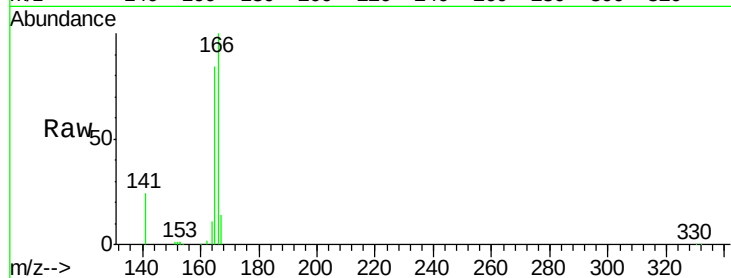
Tgt Ion:166 Resp: 16764

Ion Ratio Lower Upper

166 100

165 89.1 70.6 105.8

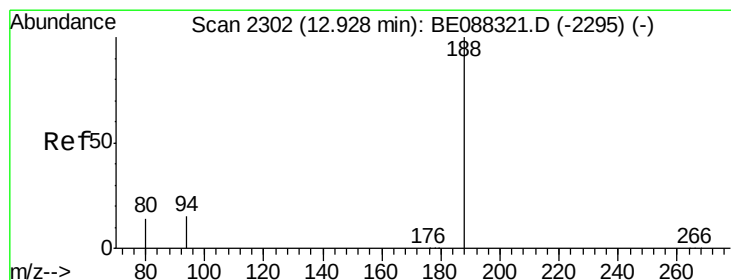
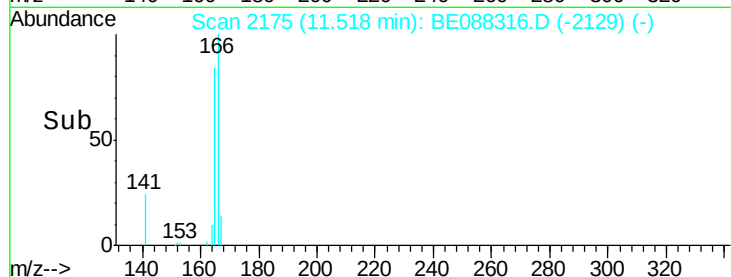
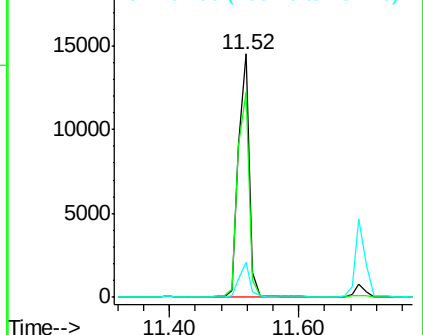
167 13.4 10.7 16.1



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: 12.93 min Scan# 2302

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

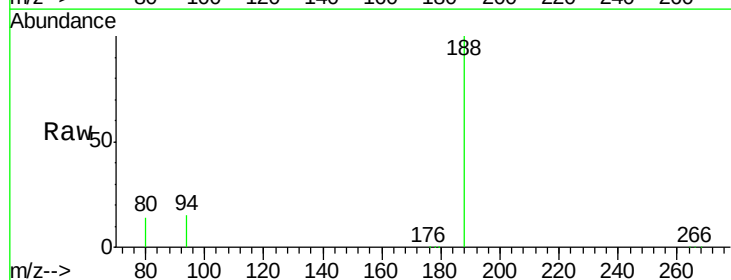
Tgt Ion:188 Resp: 120391

Ion Ratio Lower Upper

188 100

94 15.1 12.0 18.0

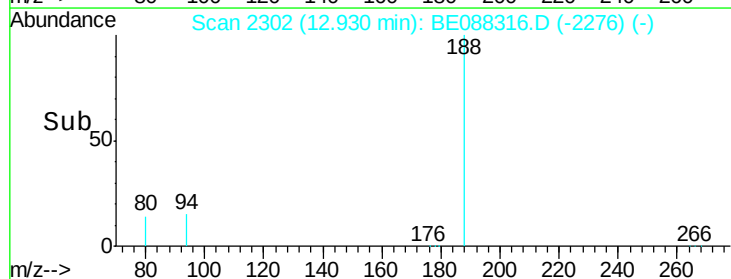
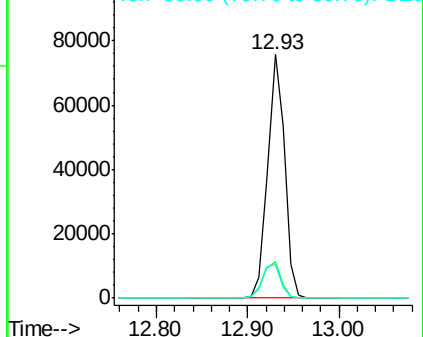
80 13.9 11.3 16.9

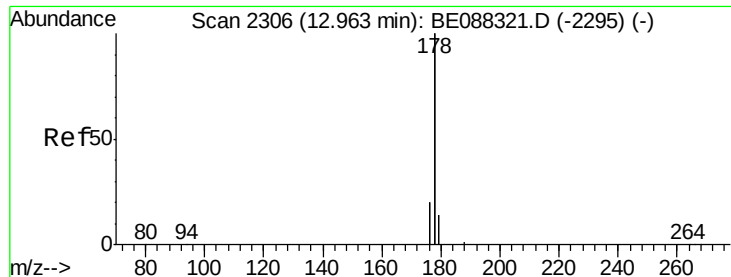


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

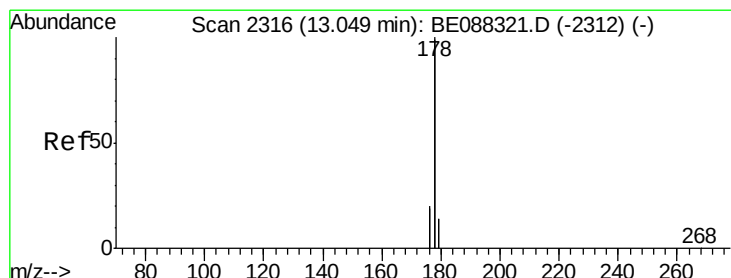
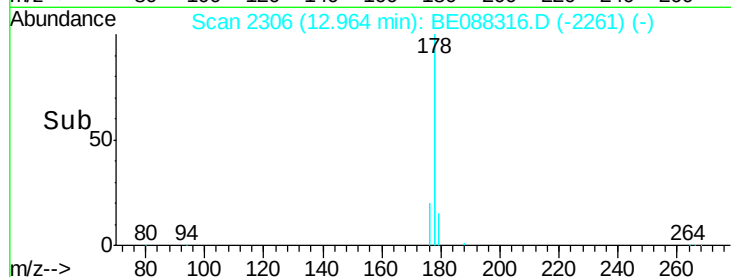
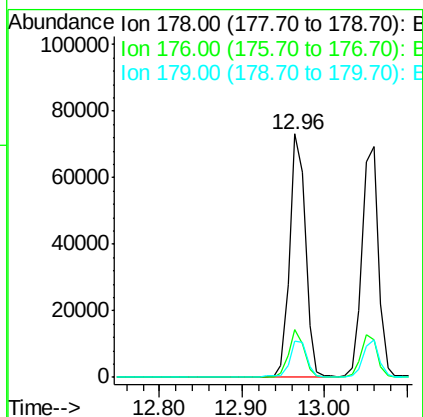
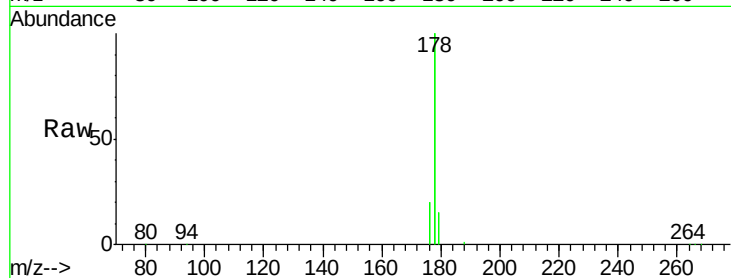




#13
Phenanthrene
Concen: 1.07 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088316.D
Acq: 27 Oct 2014 15:46

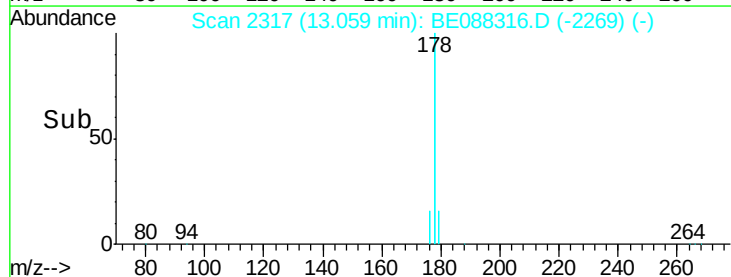
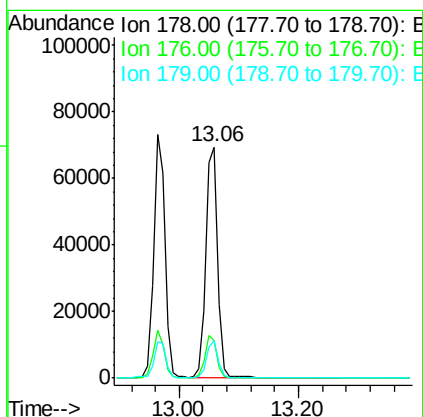
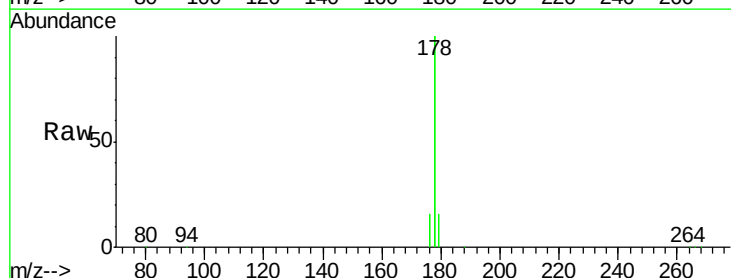
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

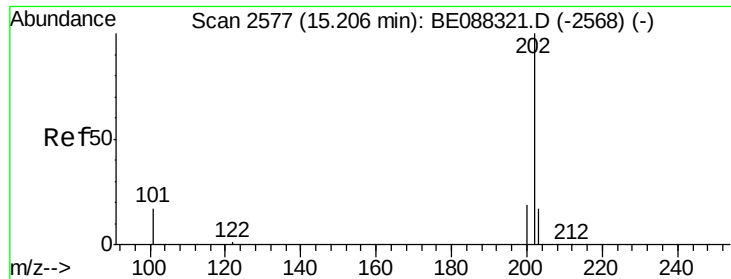
Tgt Ion:178 Resp: 118985
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.6
179 16.9 13.2 19.8



#14
Anthracene
Concen: 1.05 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BE088316.D
Acq: 27 Oct 2014 15:46

Tgt Ion:178 Resp: 95263
Ion Ratio Lower Upper
178 100
176 18.2 14.6 21.8
179 15.2 12.6 18.8

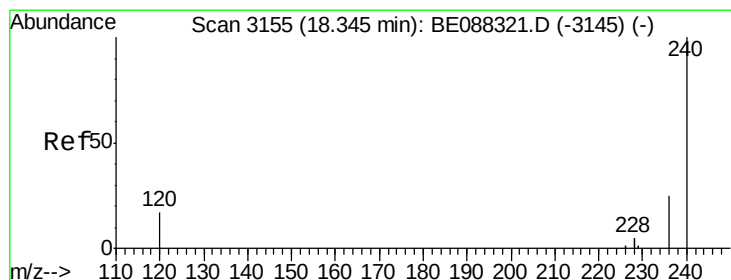
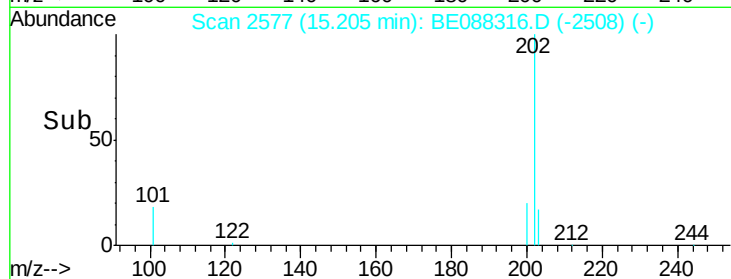
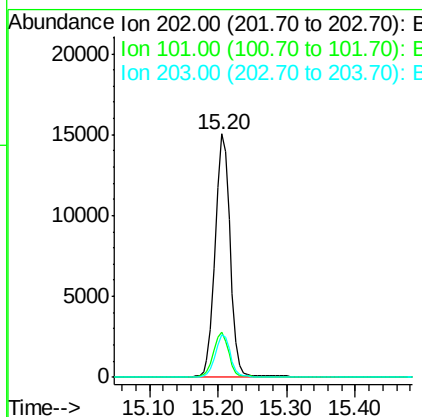
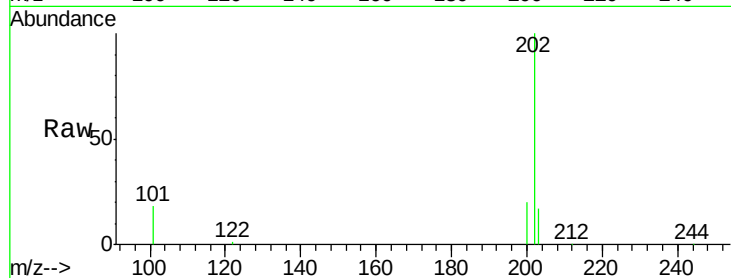




#15
 Fluoranthene
 Concen: 1.10 ng
 RT: 15.20 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: BE088316.D
 Acq: 27 Oct 2014 15:46

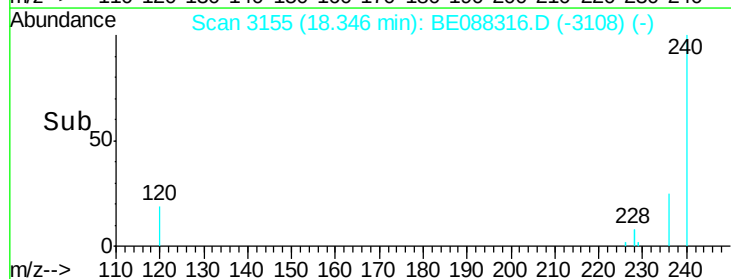
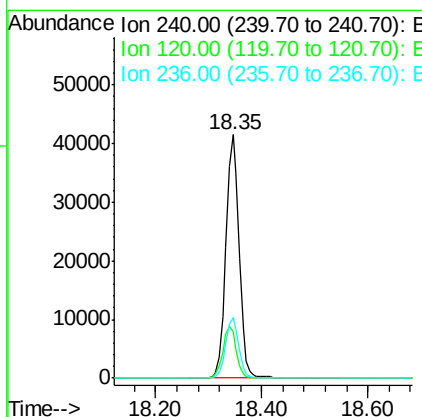
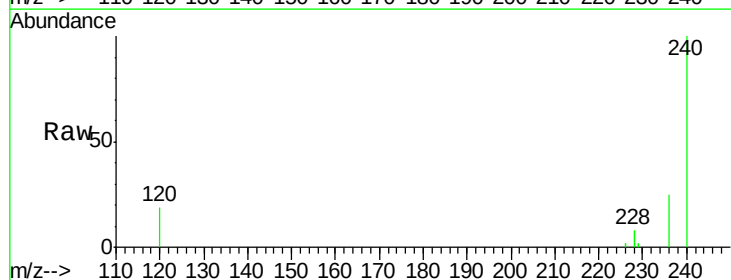
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

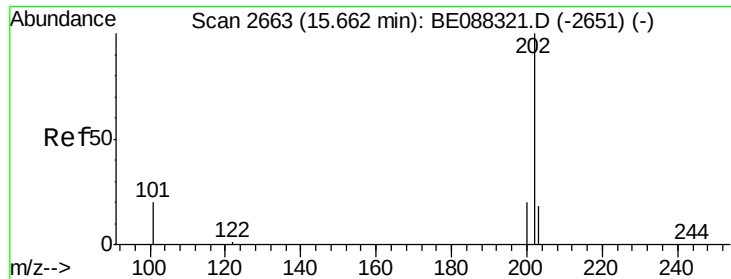
Tgt Ion: 202 Resp: 22320
 Ion Ratio Lower Upper
 202 100
 101 18.1 14.6 21.8
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088316.D
 Acq: 27 Oct 2014 15:46

Tgt Ion: 240 Resp: 70930
 Ion Ratio Lower Upper
 240 100
 120 19.1 13.4 20.0
 236 24.8 20.0 30.0

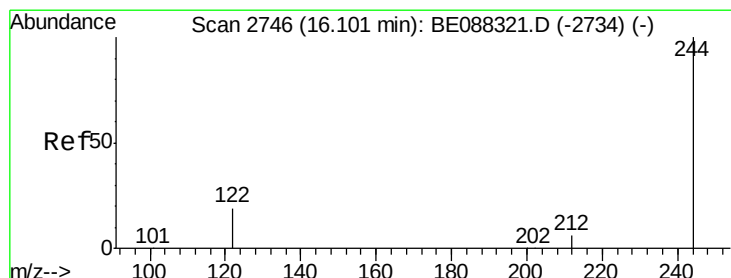
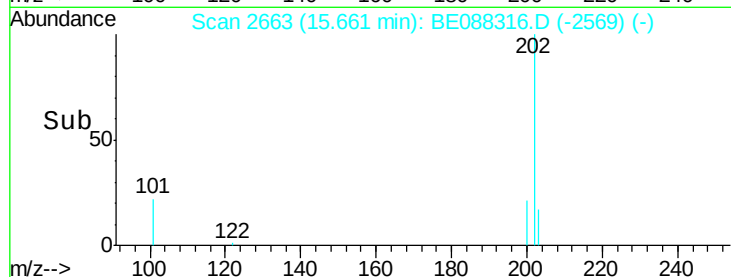
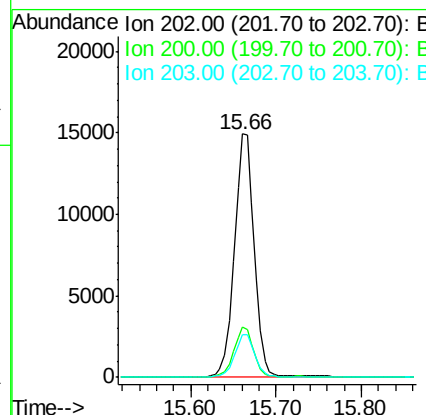
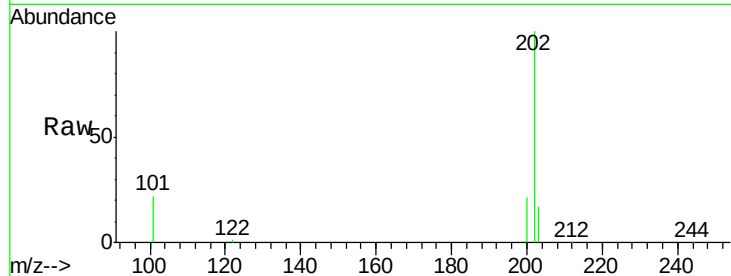




#17
 Pyrene
 Concen: 1.11 ng
 RT: 15.66 min Scan# 2663
 Delta R.T. -0.00 min
 Lab File: BE088316.D
 Acq: 27 Oct 2014 15:46

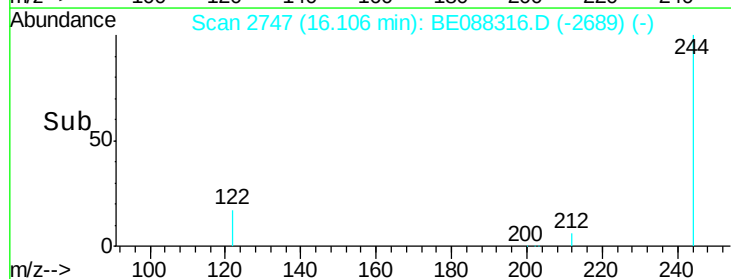
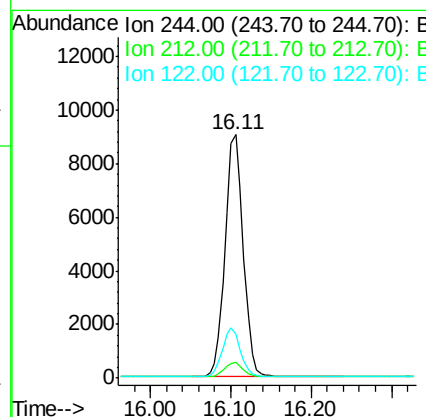
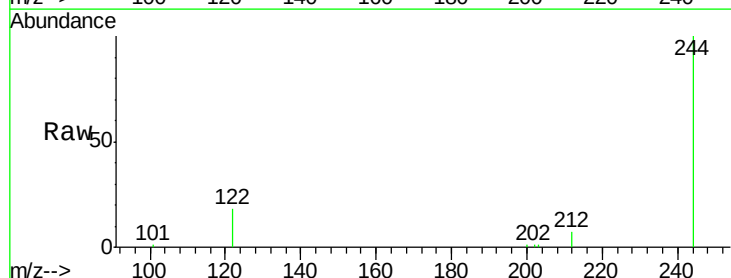
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

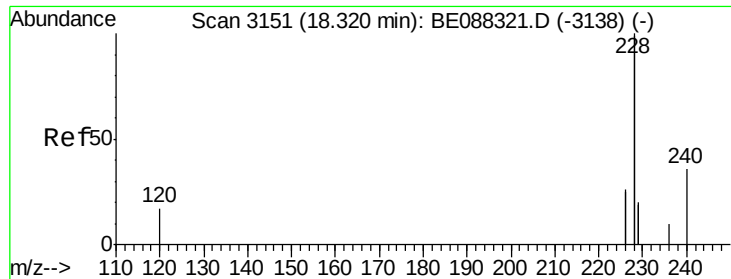
Tgt Ion: 202 Resp: 23798
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.3 13.9 20.9



#18
 Terphenyl-d14
 Concen: 1.08 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.00 min
 Lab File: BE088316.D
 Acq: 27 Oct 2014 15:46

Tgt Ion: 244 Resp: 14209
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.1 7.7
 122 17.8 15.8 23.8





#19

Benzo(a)anthracene

Concen: 1.14 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

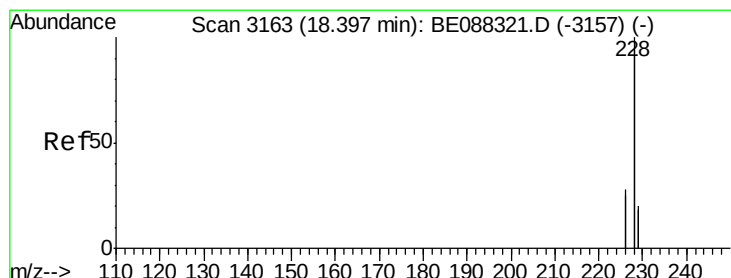
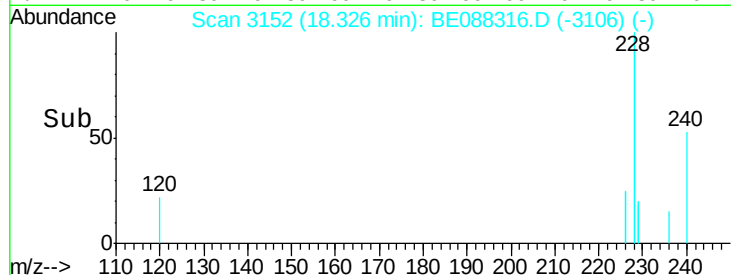
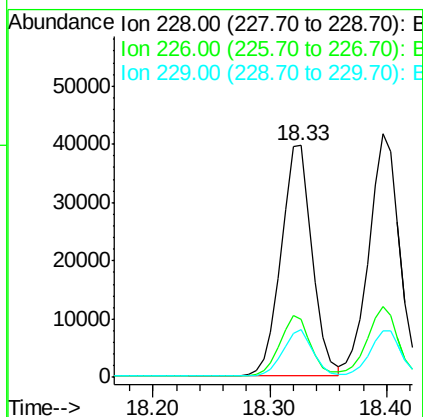
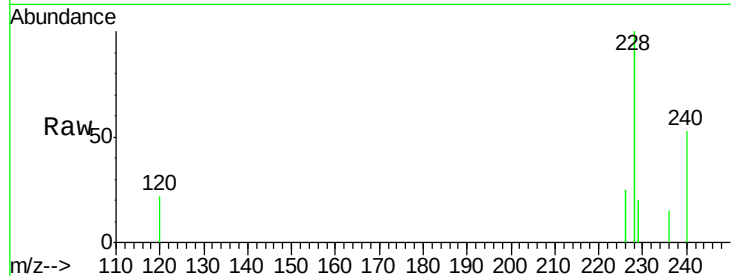
Tgt Ion:228 Resp: 73722

Ion Ratio Lower Upper

228 100

226 25.0 20.7 31.1

229 20.4 15.7 23.5



#20

Chrysene

Concen: 1.20 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

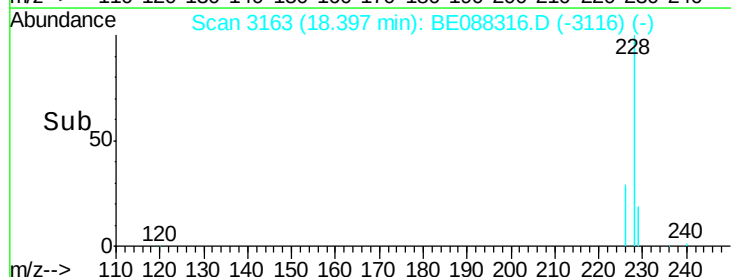
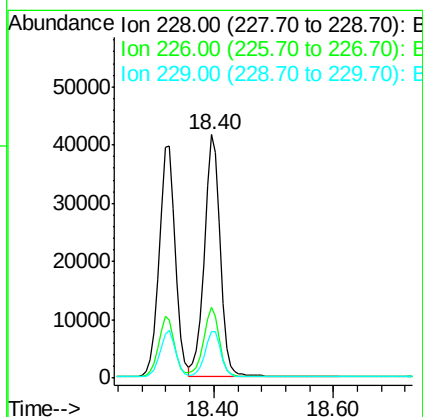
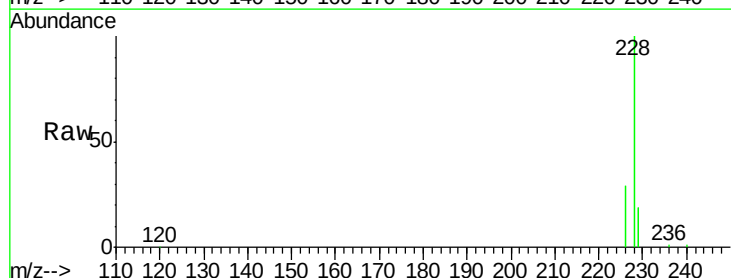
Tgt Ion:228 Resp: 76028

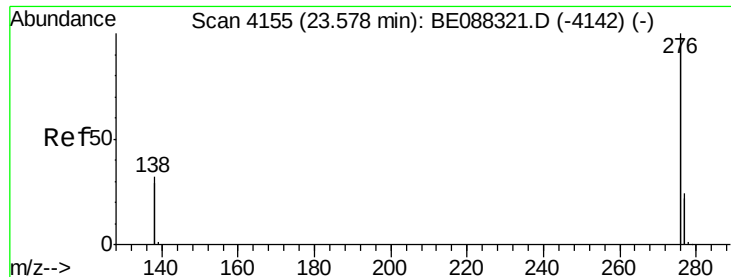
Ion Ratio Lower Upper

228 100

226 29.2 22.7 34.1

229 19.1 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.93 ng

RT: 23.58 min Scan# 4156

Delta R.T. 0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

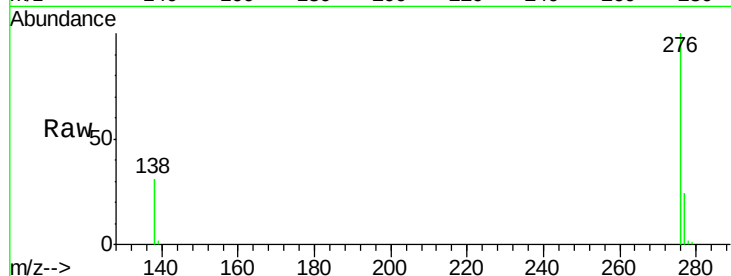
Tgt Ion:276 Resp: 56977

Ion Ratio Lower Upper

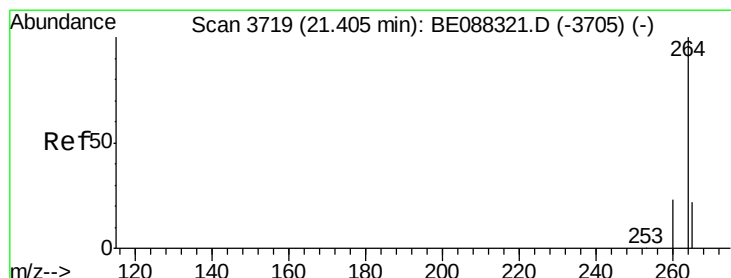
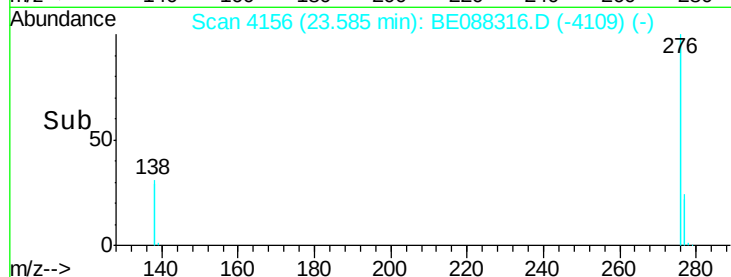
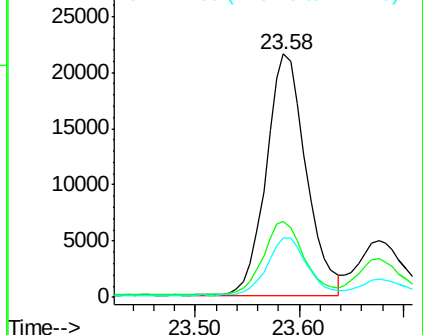
276 100

138 30.9 24.6 37.0

277 23.7 19.0 28.6



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: 21.41 min Scan# 3719

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

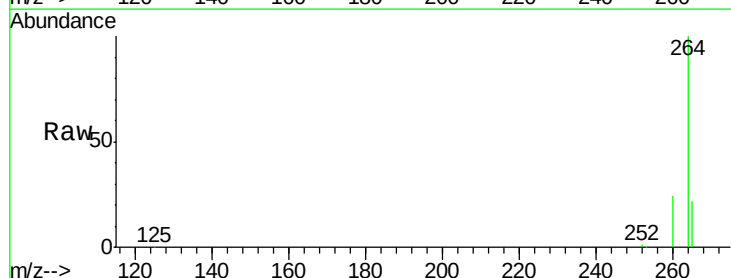
Tgt Ion:264 Resp: 58467

Ion Ratio Lower Upper

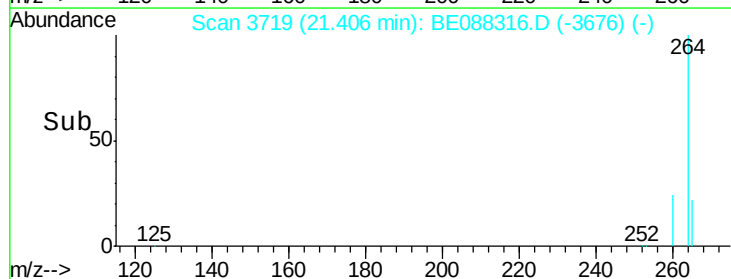
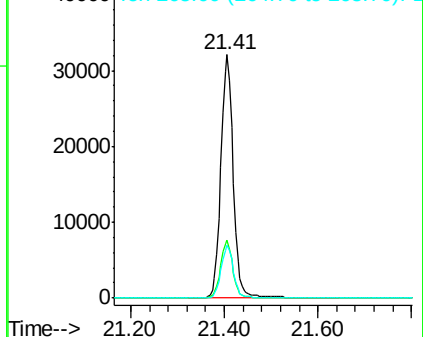
264 100

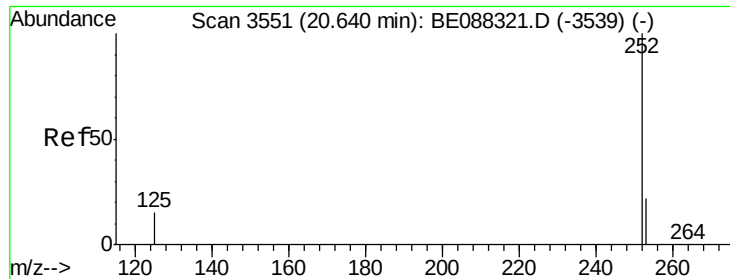
260 23.7 18.9 28.3

265 21.7 17.4 26.0



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





#23

Benzo(b)fluoranthene

Concen: 1.24 ng

RT: 20.65 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

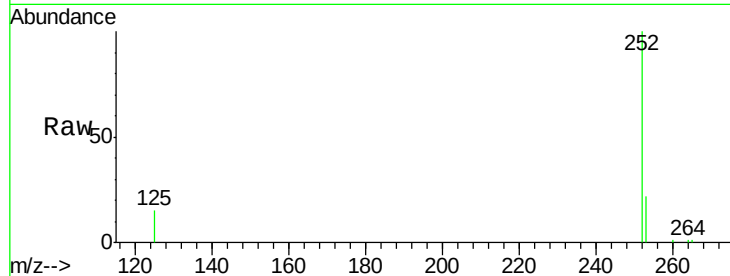
Tgt Ion:252 Resp: 17115

Ion Ratio Lower Upper

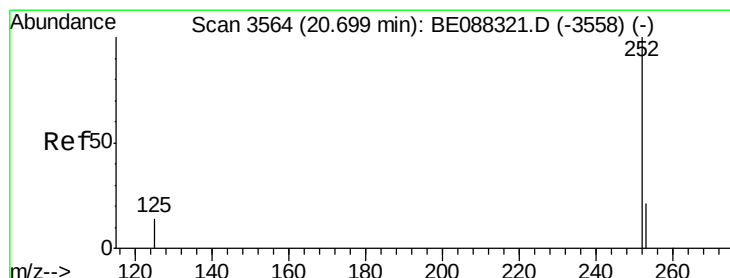
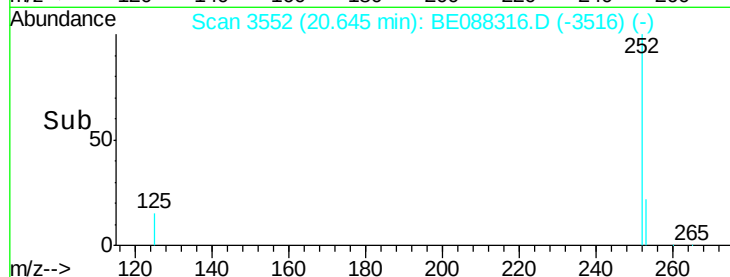
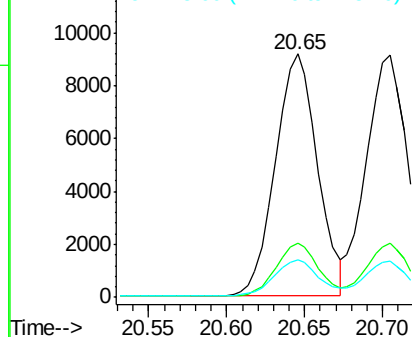
252 100

253 22.0 17.7 26.5

125 15.4 12.2 18.2



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



#24

Benzo(k)fluoranthene

Concen: 1.23 ng

RT: 20.70 min Scan# 3565

Delta R.T. 0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

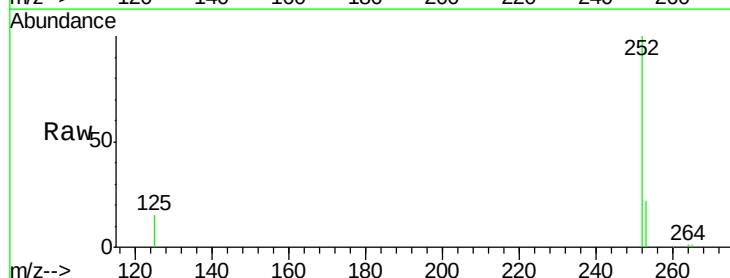
Tgt Ion:252 Resp: 17814

Ion Ratio Lower Upper

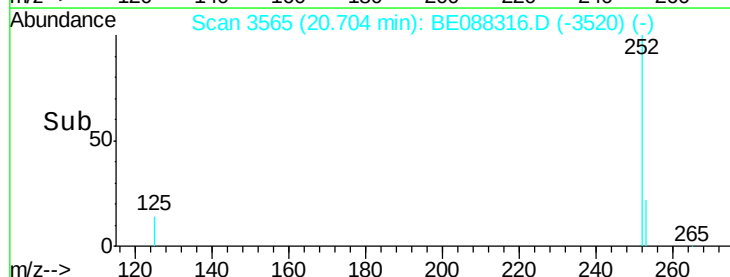
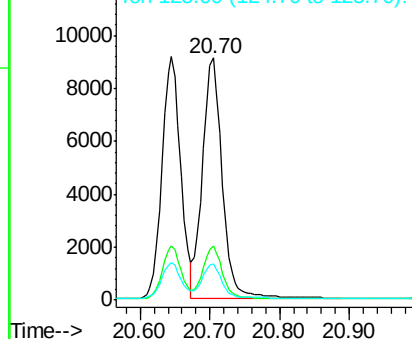
252 100

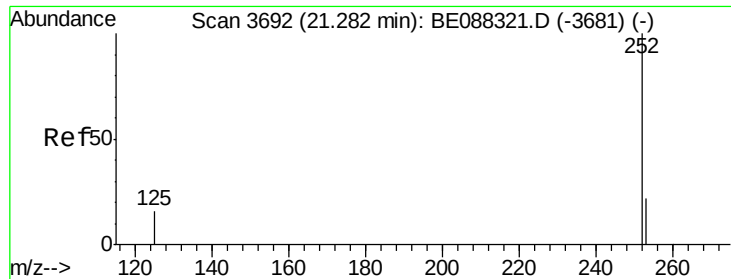
253 22.2 17.6 26.4

125 14.9 11.9 17.9



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: 1.14 ng

RT: 21.29 min Scan# 3693

Delta R.T. 0.01 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

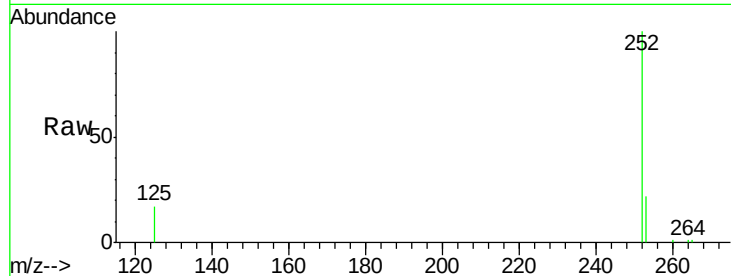
Tgt Ion:252 Resp: 14582

Ion Ratio Lower Upper

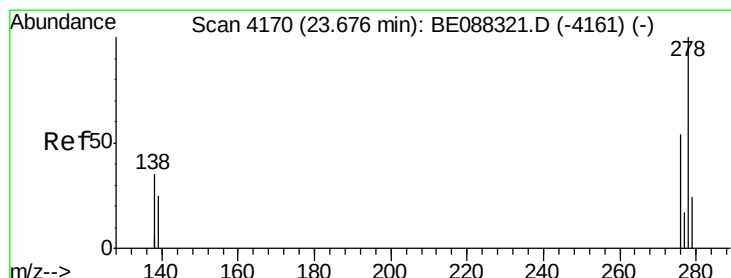
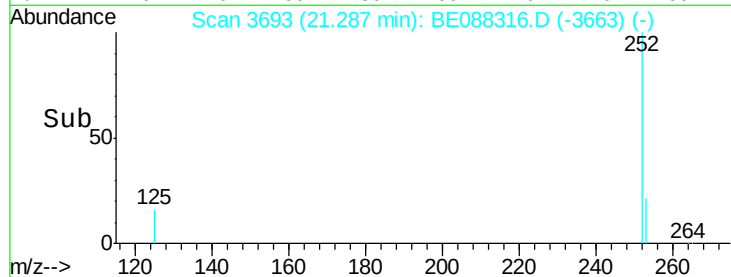
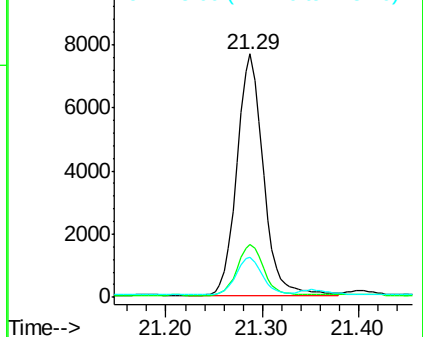
252 100

253 21.8 17.7 26.5

125 16.6 13.2 19.8



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



#26

Dibenzo(a,h)anthracene

Concen: 1.19 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.00 min

Lab File: BE088316.D

Acq: 27 Oct 2014 15:46

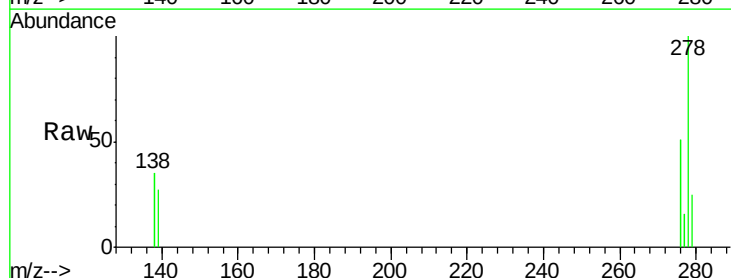
Tgt Ion:278 Resp: 14454

Ion Ratio Lower Upper

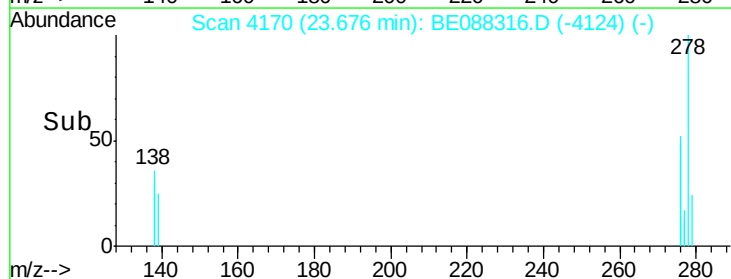
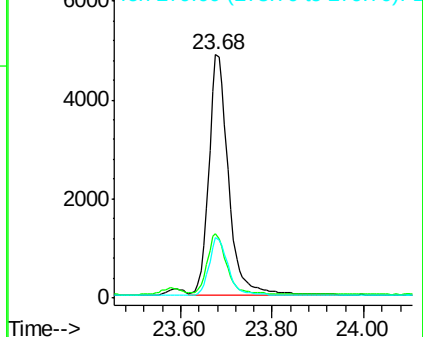
278 100

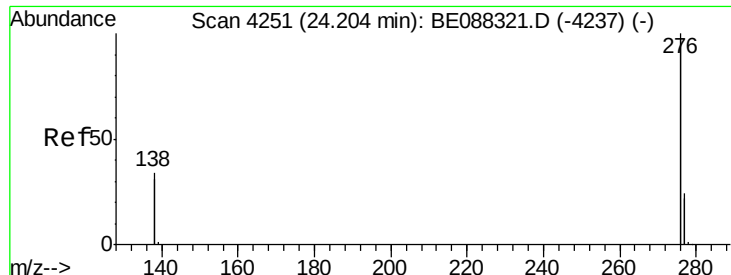
139 26.6 21.0 31.4

279 24.8 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: 1.18 ng

RT: 24.22 min Scan# 4253

Delta R.T. 0.01 min

Lab File: BE088316.D

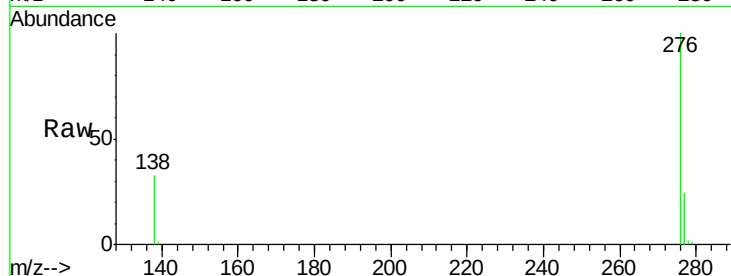
Acq: 27 Oct 2014 15:46

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



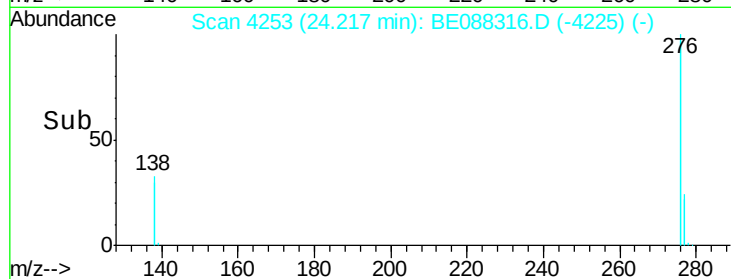
Tgt Ion: 276 Resp: 63037

Ion Ratio Lower Upper

276 100

277 24.4 19.1 28.7

138 32.8 27.0 40.4



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

