

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088127.D
 Acq On : 21 Oct 2014 6:18
 Operator : TP/JJ
 Sample : F4312-01RE
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS25-1014

Quant Time: Oct 21 07:20:05 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

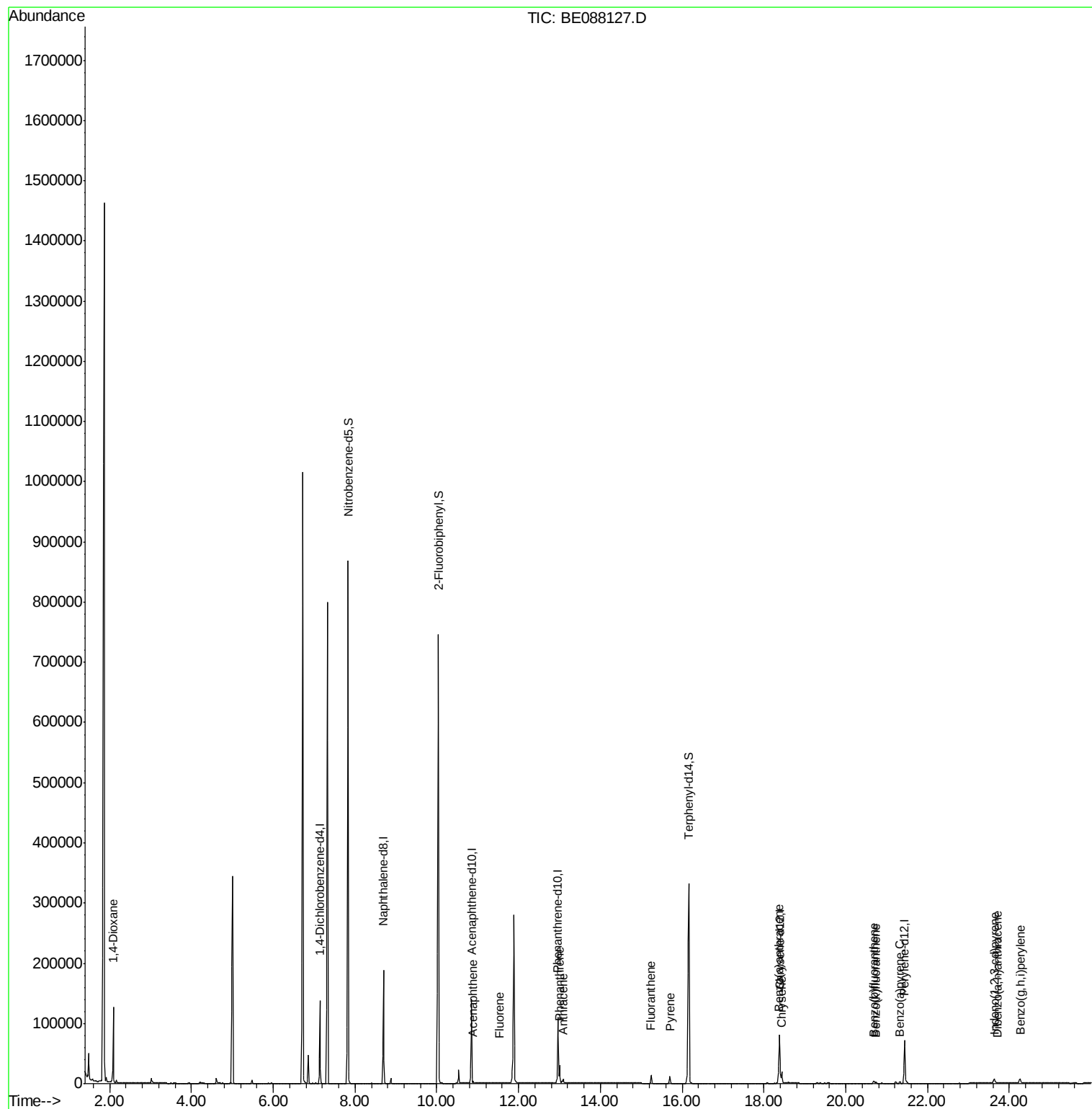
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	44981	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	161850	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	72102	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	136467	5.00	ng	0.00
16) Chrysene-d12	18.38	240	95990	5.00	ng	0.00
22) Perylene-d12	21.44	264	92522	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.84	82	645511	55.33	ng	0.01
8) 2-Fluorobiphenyl	10.04	172	718281	36.07	ng	0.00
18) Terphenyl-d14	16.16	244	568336	36.79	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.09	88	4139	0.64	ng	# 1
10) Acenaphthene	10.88	154	392	0.02	ng	# 83
11) Fluorene	11.54	166	410	0.02	ng	# 94
13) Phenanthrene	13.01	178	32821	0.11	ng	# 92
14) Anthracene	13.09	178	6468	0.06	ng	93
15) Fluoranthene	15.24	202	14177	0.55	ng	100
17) Pyrene	15.70	202	12504	0.48	ng	97
19) Benzo(a)anthracene	18.36	228	23031	0.27	ng	97
20) Chrysene	18.43	228	26262	0.31	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	14930	0.16	ng	# 82
23) Benzo(b)fluoranthene	20.68	252	7849	0.36	ng	# 94
24) Benzo(k)fluoranthene	20.74	252	3421	0.15	ng	# 92
25) Benzo(a)pyrene	21.32	252	4816	0.24	ng	95
26) Dibenzo(a,h)anthracene	23.72	278	702	0.04	ng	# 68
27) Benzo(g,h,i)perylene	24.26	276	13883	0.16	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: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

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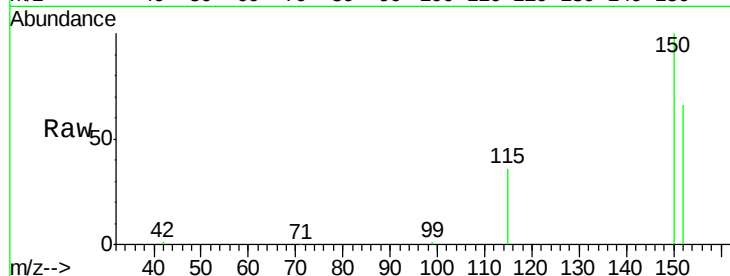
Tgt Ion:152 Resp: 44981

Ion Ratio Lower Upper

152 100

150 151.7 129.2 193.8

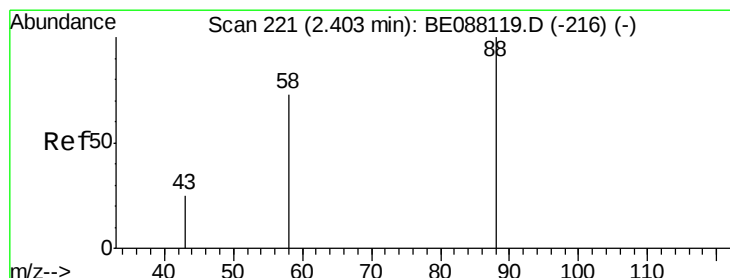
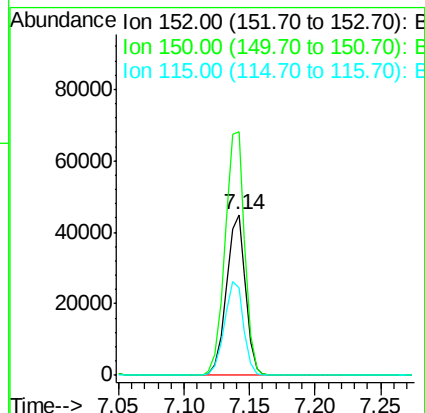
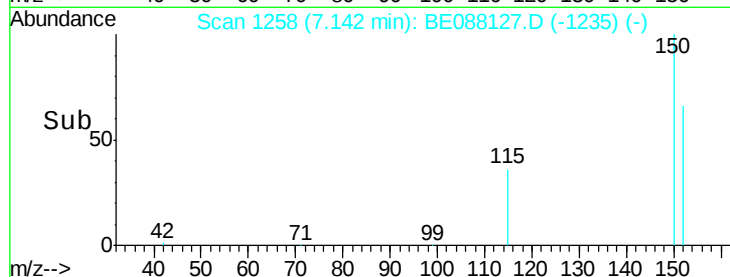
115 54.2 49.3 73.9



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: 0.64 ng

RT: 2.09 min Scan# 152

Delta R.T. -0.32 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

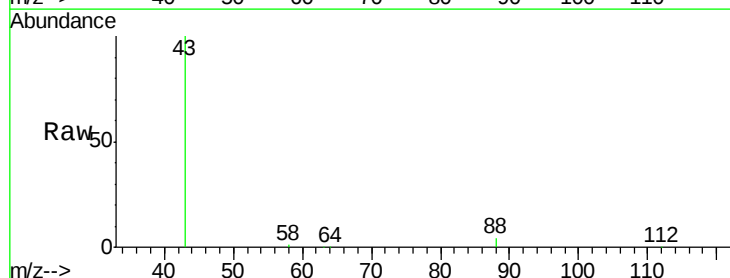
Tgt Ion: 88 Resp: 4139

Ion Ratio Lower Upper

88 100

58 23.7 59.5 89.3#

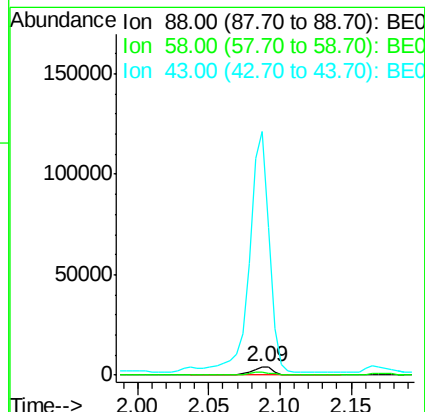
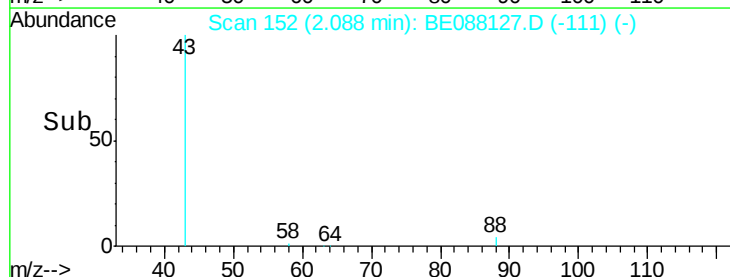
43 2817.3 21.2 31.8#

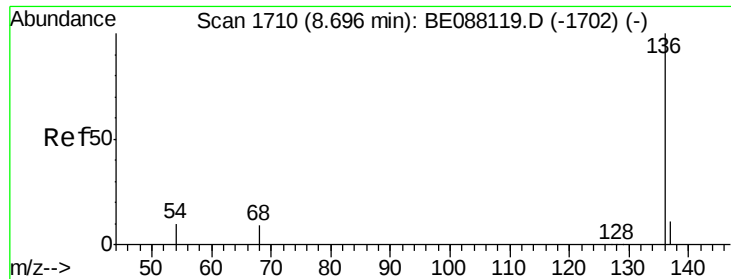


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

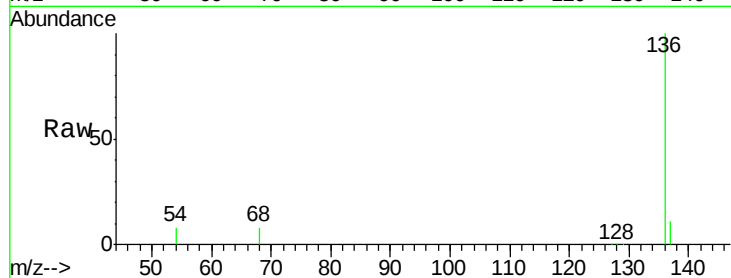




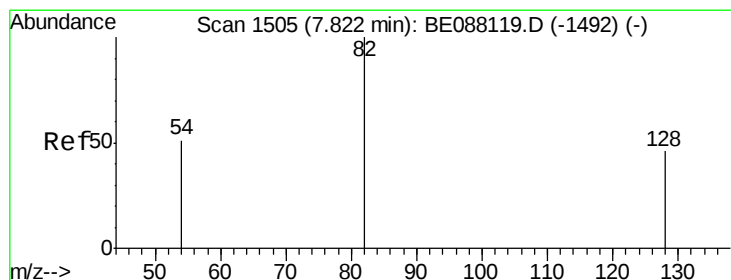
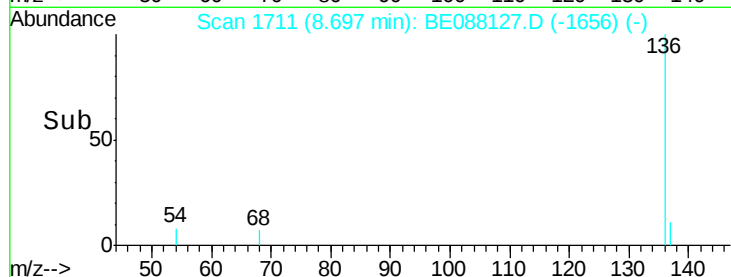
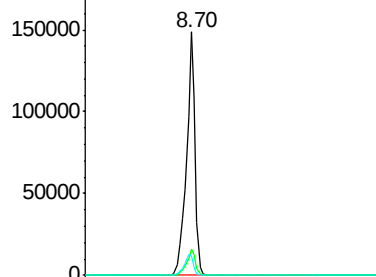
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Instrument :
BNA_E
ClientSampleId :
YS19-SS25-1014

Tgt Ion: 136 Resp: 161850
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 7.9 7.7 11.5

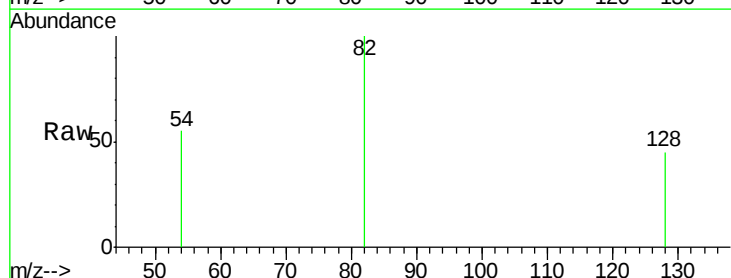


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): B

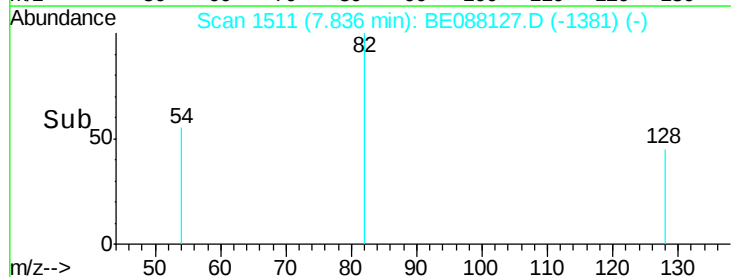
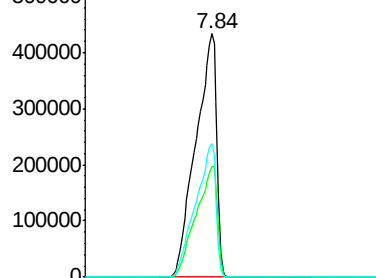


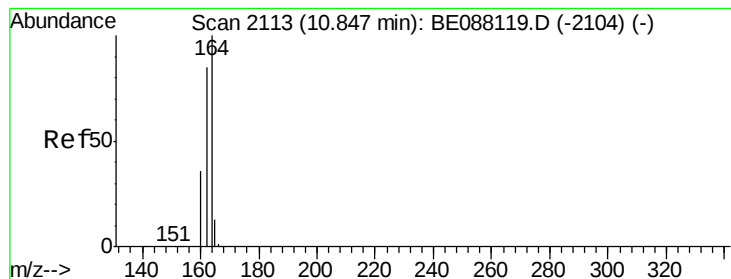
#4
Nitrobenzene-d5
Concen: 55.33 ng
RT: 7.84 min Scan# 1511
Delta R.T. 0.01 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Tgt Ion: 82 Resp: 645511
Ion Ratio Lower Upper
82 100
128 45.5 37.1 55.7
54 54.8 41.1 61.7



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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

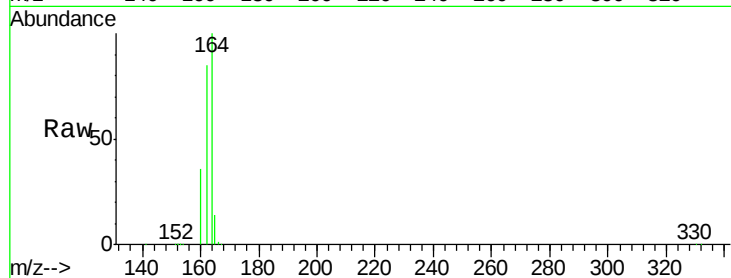
Tgt Ion:164 Resp: 72102

Ion Ratio Lower Upper

164 100

162 84.6 68.3 102.5

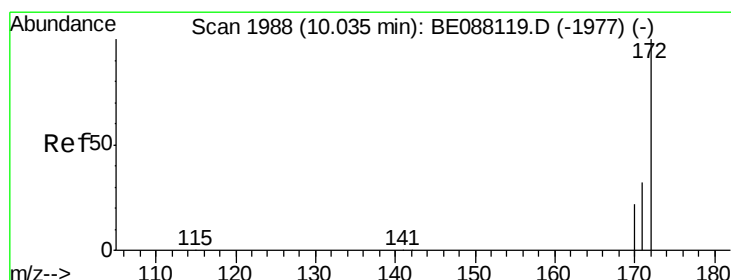
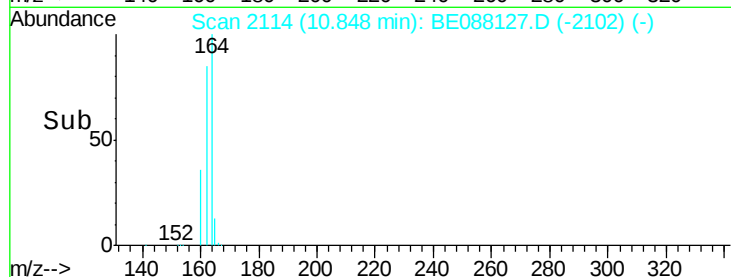
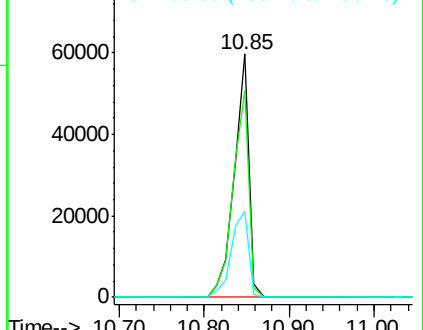
160 35.6 28.7 43.1



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: 36.07 ng

RT: 10.04 min Scan# 1991

Delta R.T. 0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

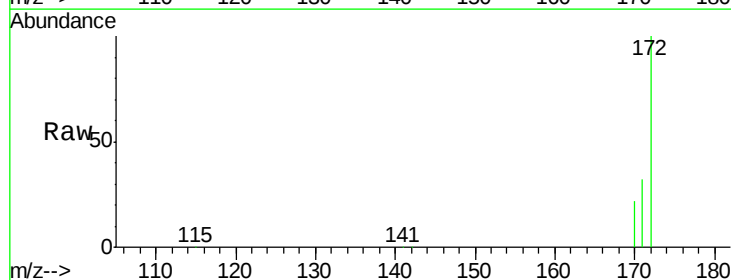
Tgt Ion:172 Resp: 718281

Ion Ratio Lower Upper

172 100

171 32.4 25.4 38.2

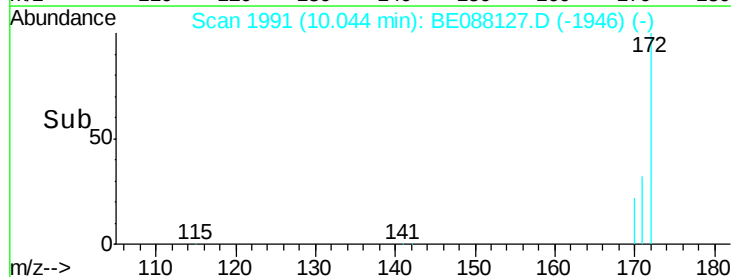
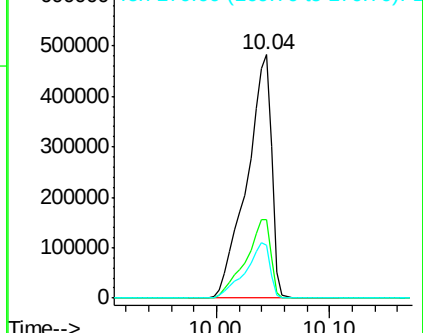
170 21.6 17.4 26.2

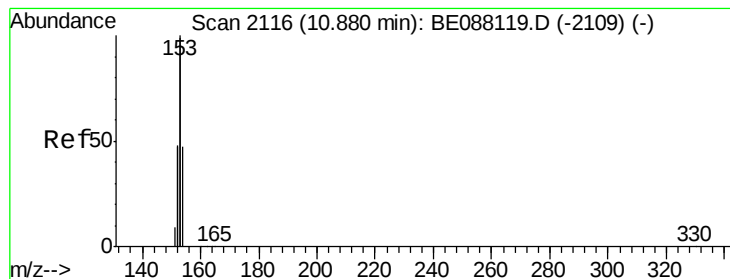


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthene

Concen: 0.02 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

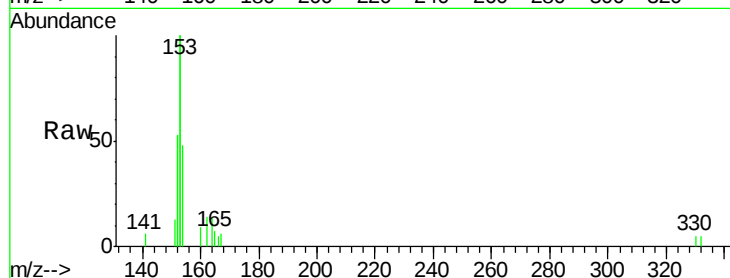
Tgt Ion:154 Resp: 392

Ion Ratio Lower Upper

154 100

153 438.5 327.8 491.6

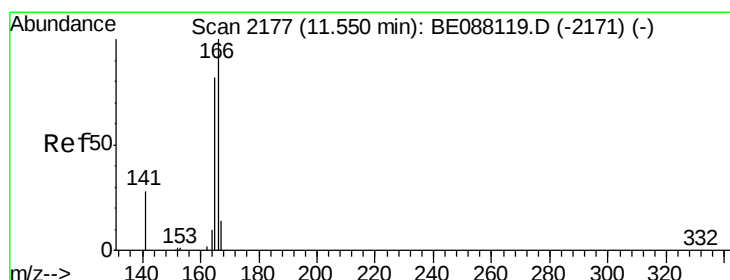
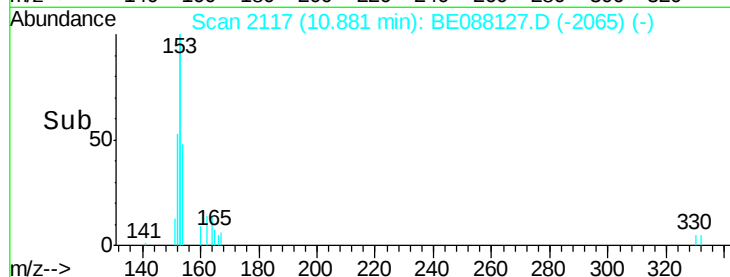
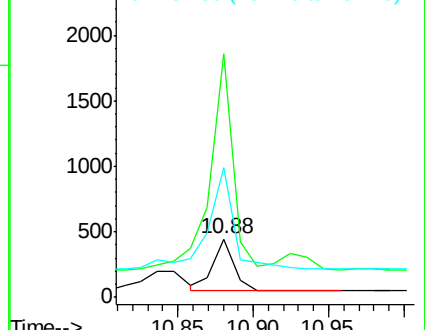
152 240.3 157.6 236.4#



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: 0.02 ng

RT: 11.54 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

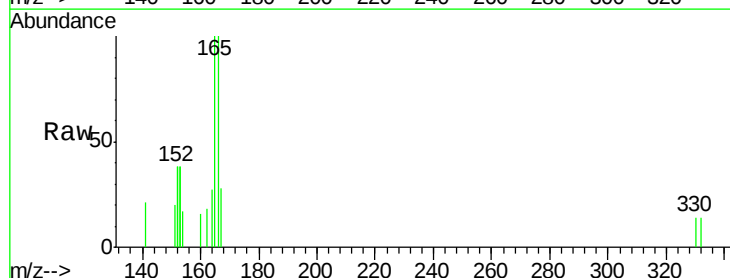
Tgt Ion:166 Resp: 410

Ion Ratio Lower Upper

166 100

165 87.3 71.4 107.2

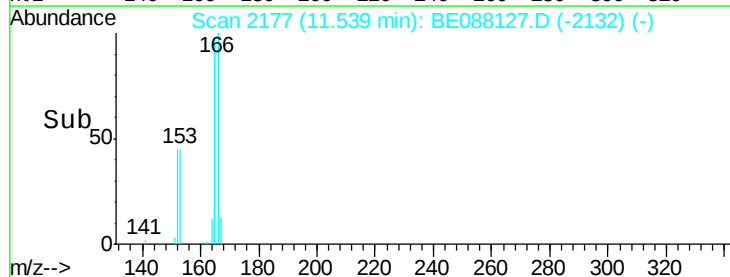
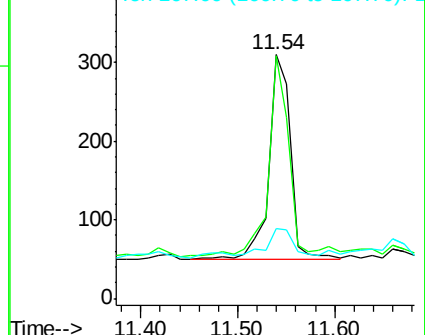
167 0.0 10.6 16.0#

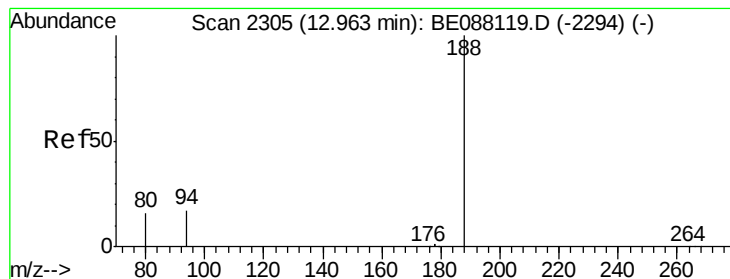


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

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ClientSampleId :

YS19-SS25-1014

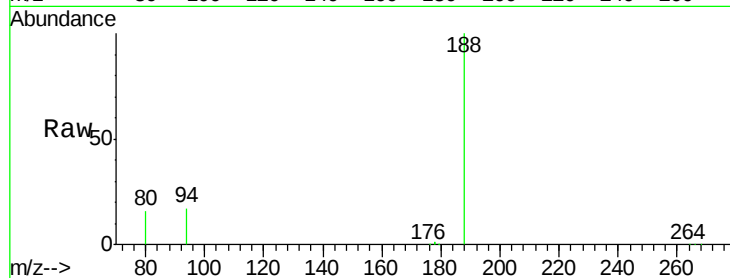
Tgt Ion:188 Resp: 136467

Ion Ratio Lower Upper

188 100

94 16.8 13.9 20.9

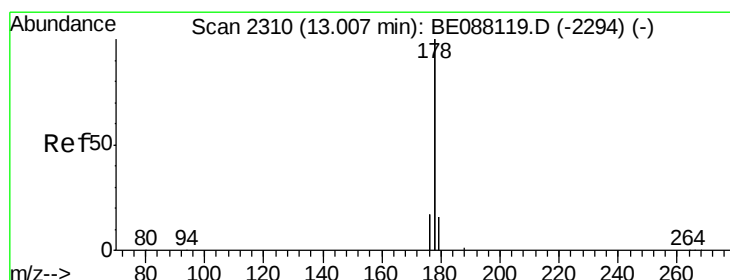
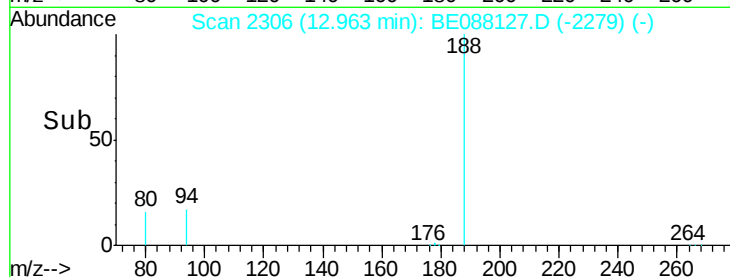
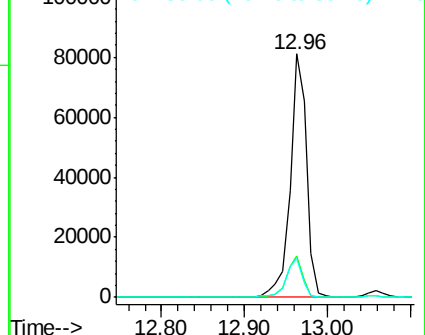
80 15.8 12.9 19.3



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: 0.11 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

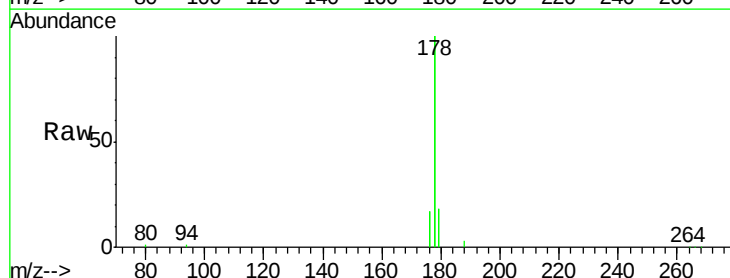
Tgt Ion:178 Resp: 32821

Ion Ratio Lower Upper

178 100

176 20.3 12.5 18.7#

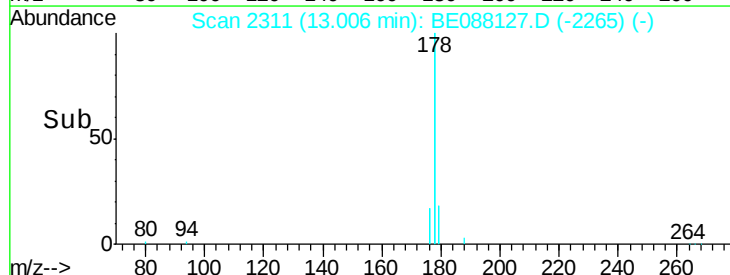
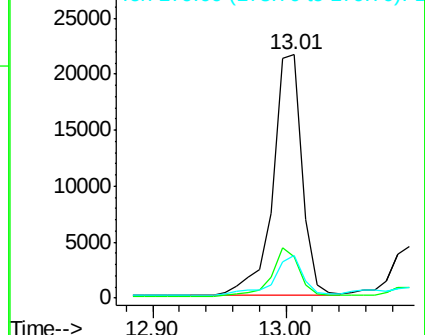
179 19.2 13.5 20.3

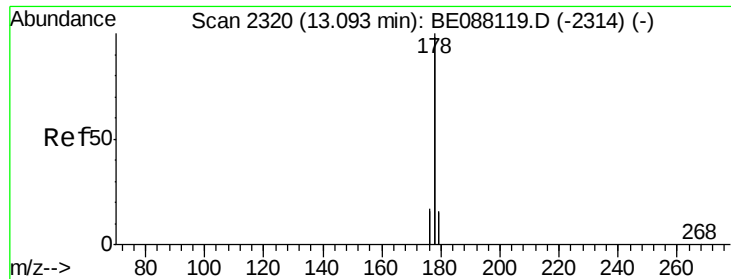


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 0.06 ng

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088127.D

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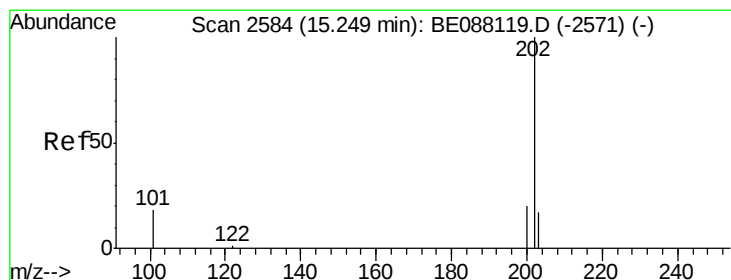
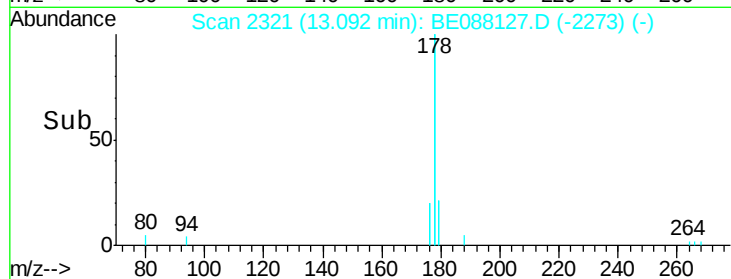
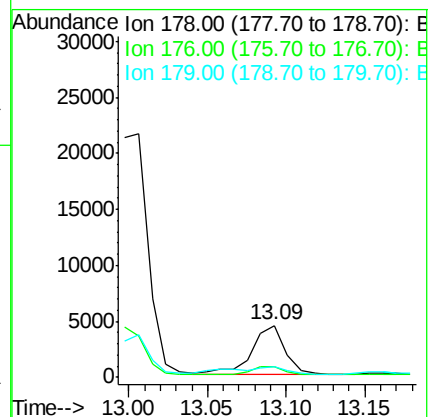
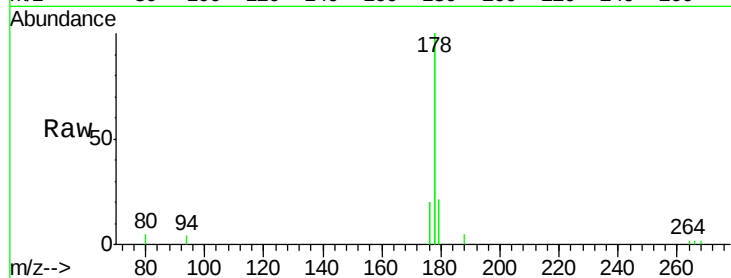
Tgt Ion:178 Resp: 6468

Ion Ratio Lower Upper

178 100

176 21.3 14.6 21.8

179 18.3 12.5 18.7



#15

Fluoranthene

Concen: 0.55 ng

RT: 15.24 min Scan# 2584

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

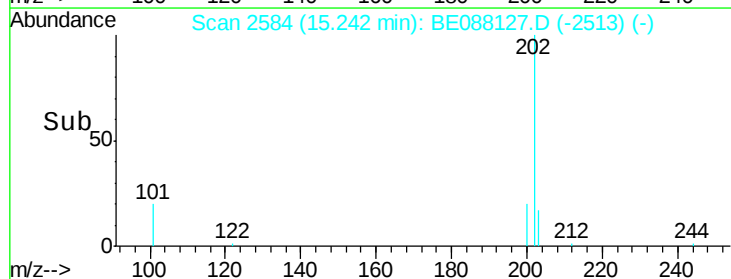
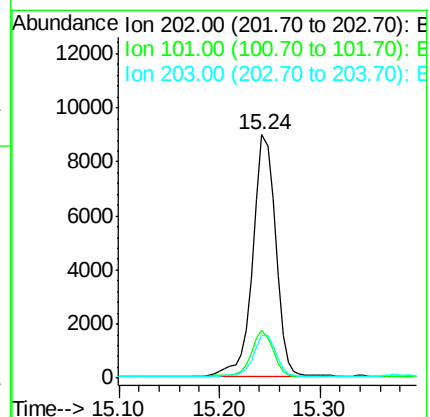
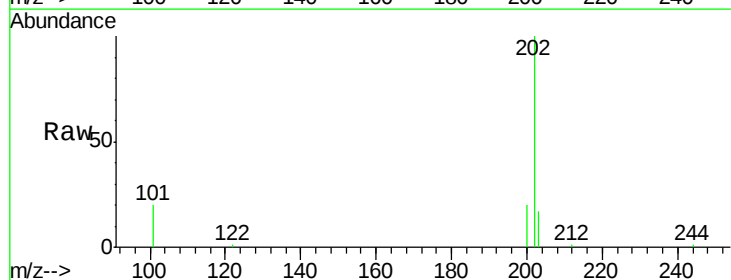
Tgt Ion:202 Resp: 14177

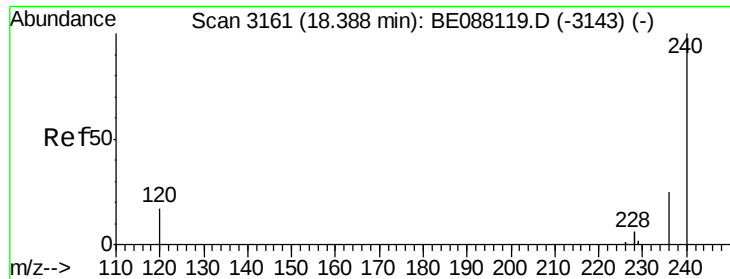
Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

203 17.0 13.5 20.3





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.38 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BE088127.D

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YS19-SS25-1014

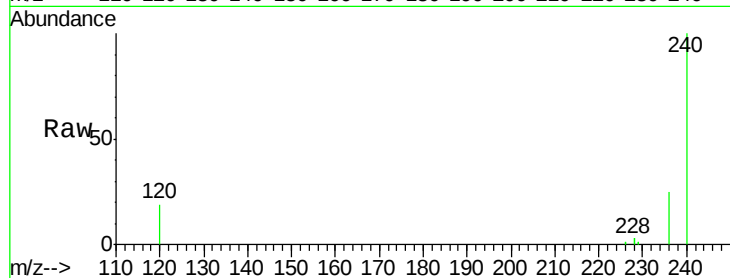
Tgt Ion:240 Resp: 95990

Ion Ratio Lower Upper

240 100

120 19.2 13.9 20.9

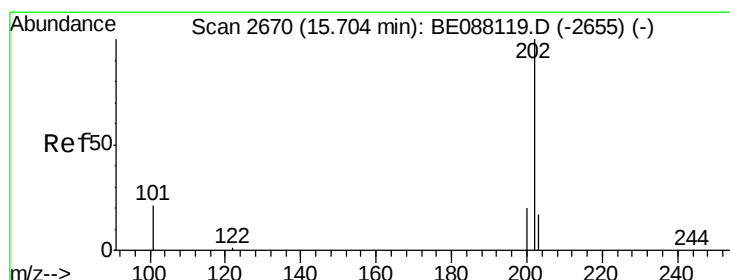
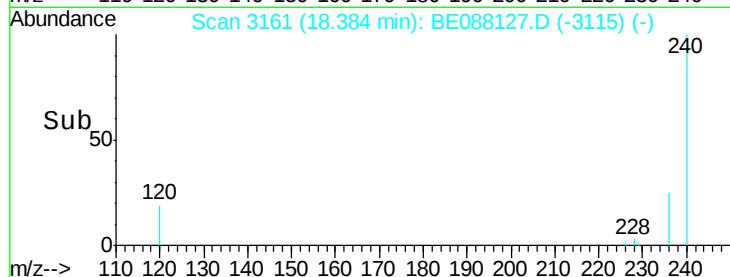
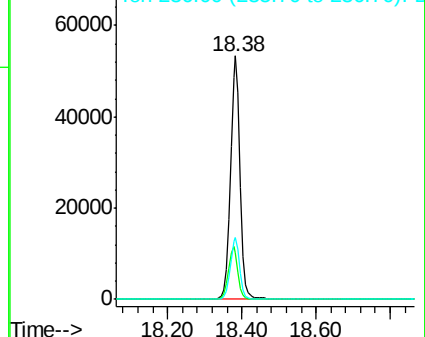
236 25.5 19.9 29.9



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: 0.48 ng

RT: 15.70 min Scan# 2670

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

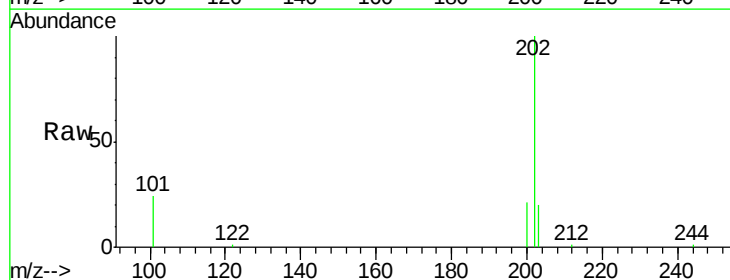
Tgt Ion:202 Resp: 12504

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

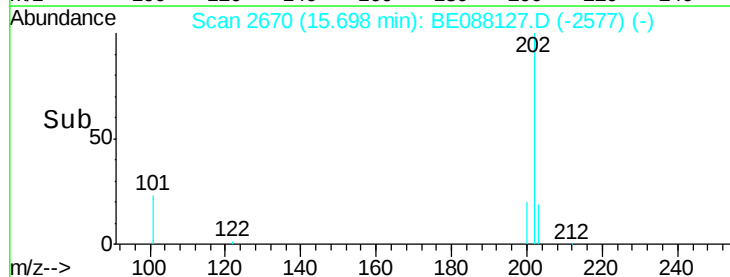
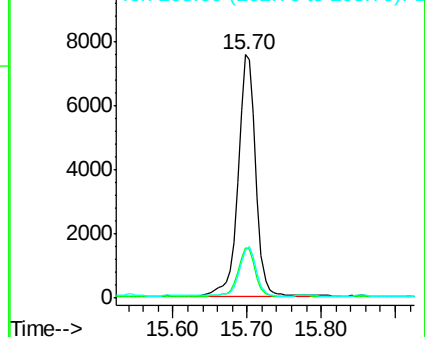
203 19.9 13.9 20.9

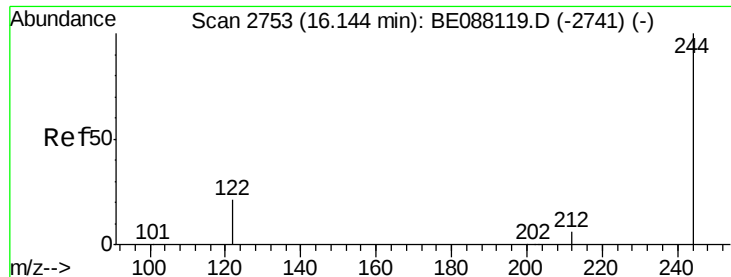


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 36.79 ng

RT: 16.16 min Scan# 2758

Delta R.T. 0.02 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

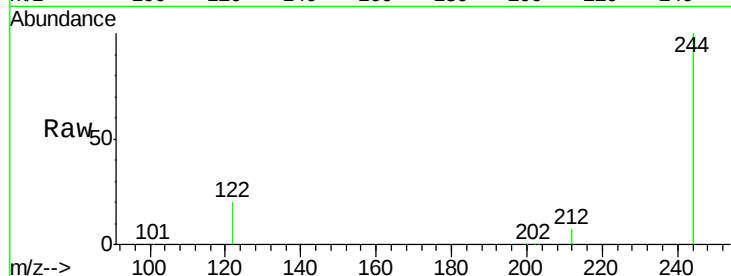
Tgt Ion:244 Resp: 568336

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

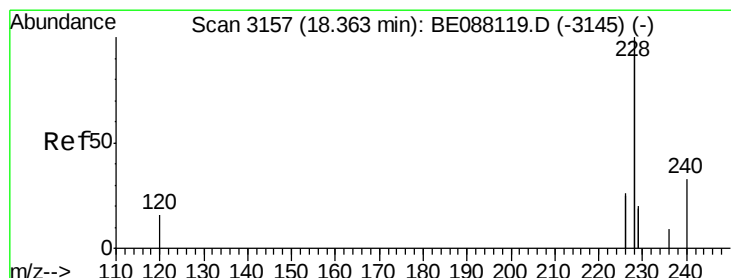
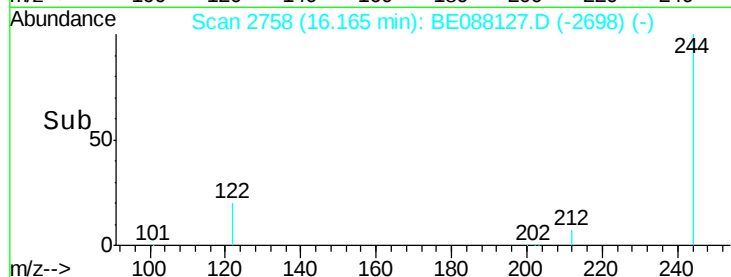
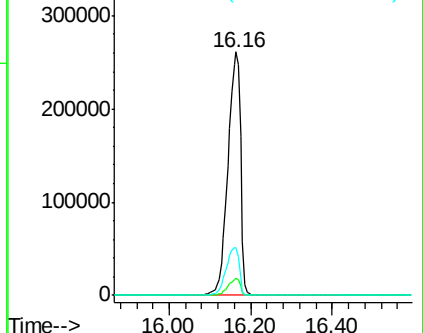
122 19.7 17.5 26.3



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#19

Benzo(a)anthracene

Concen: 0.27 ng

RT: 18.36 min Scan# 3157

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

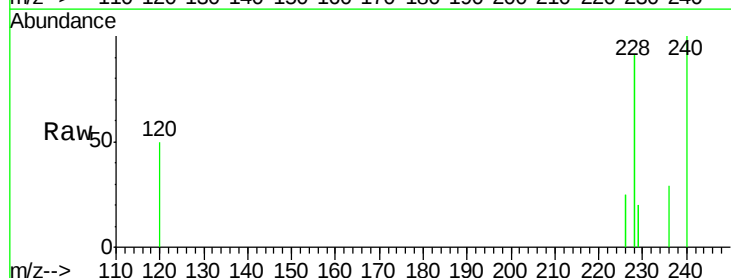
Tgt Ion:228 Resp: 23031

Ion Ratio Lower Upper

228 100

226 27.1 20.8 31.2

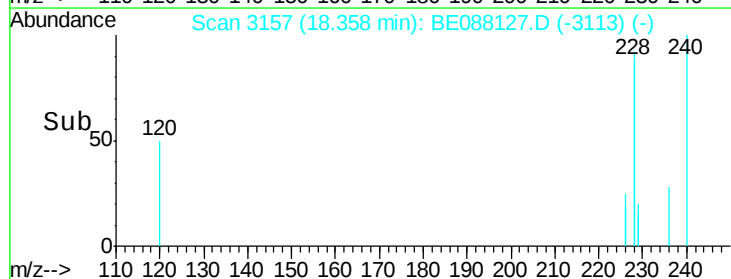
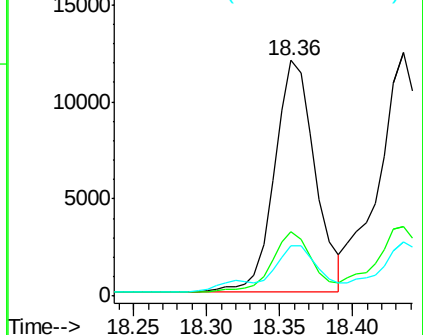
229 21.4 15.6 23.4

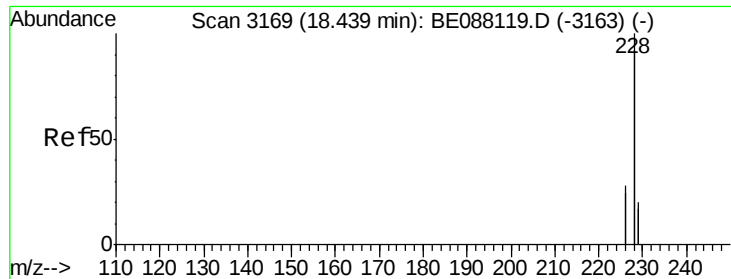


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.31 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

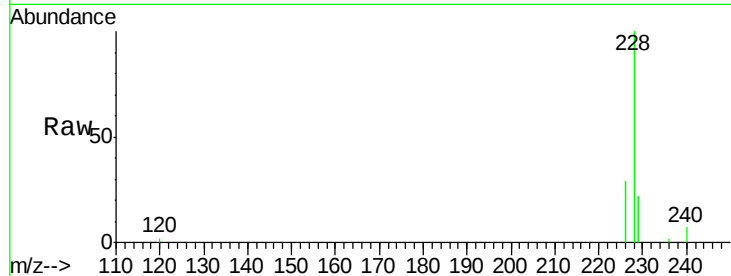
Tgt Ion:228 Resp: 26262

Ion Ratio Lower Upper

228 100

226 28.5 22.7 34.1

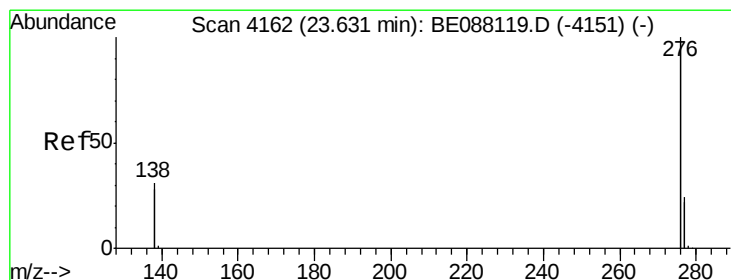
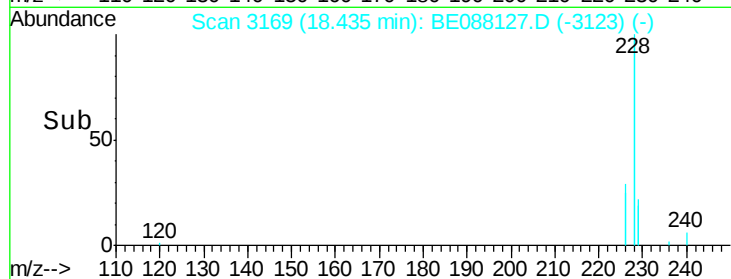
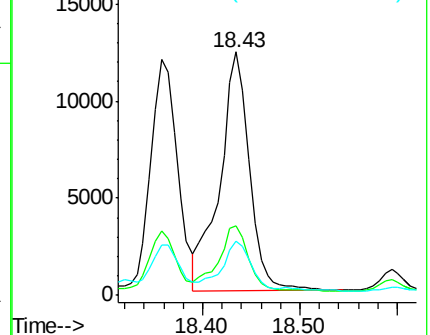
229 22.0 15.8 23.6



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: 0.16 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

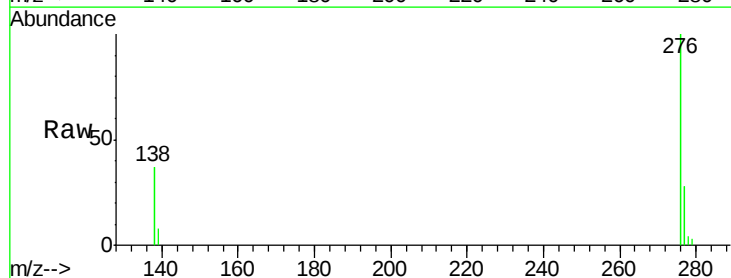
Tgt Ion:276 Resp: 14930

Ion Ratio Lower Upper

276 100

138 31.7 18.5 27.7#

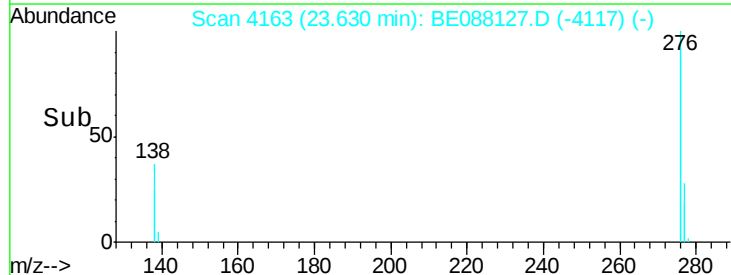
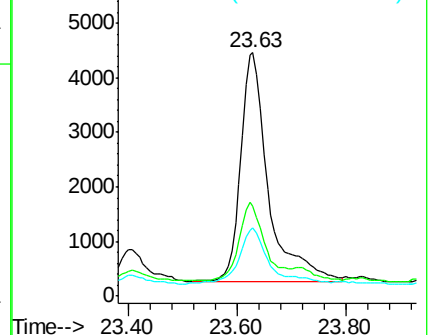
277 26.4 14.6 21.8#

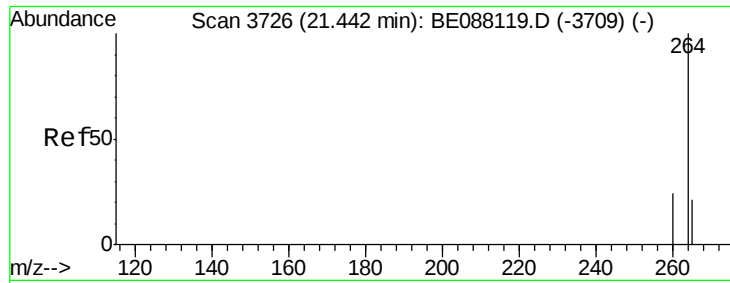


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

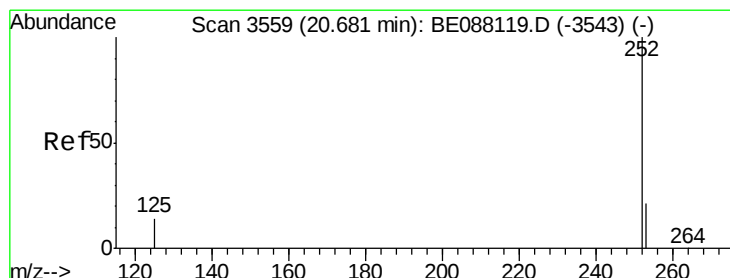
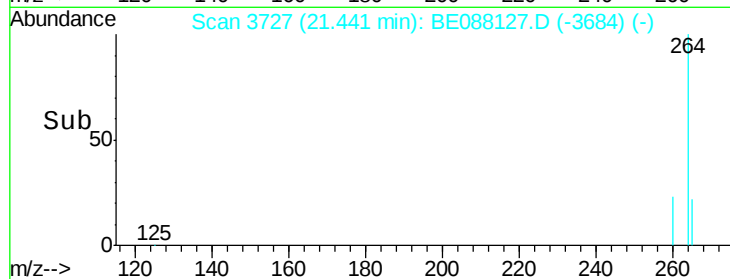
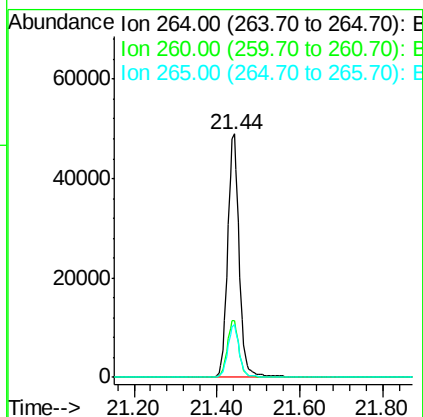
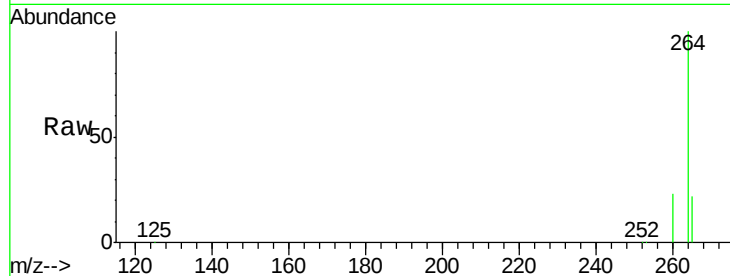




#22
Perylene-d12
Concen: 5.00 ng
RT: 21.44 min Scan# 3727
Delta R.T. -0.00 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

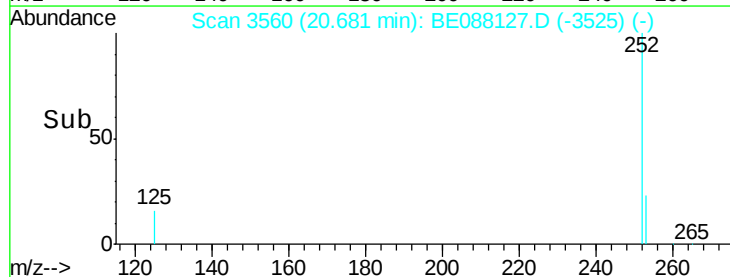
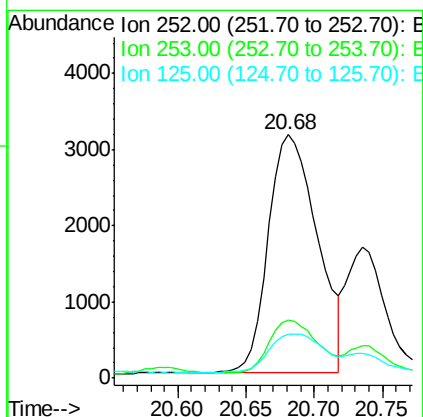
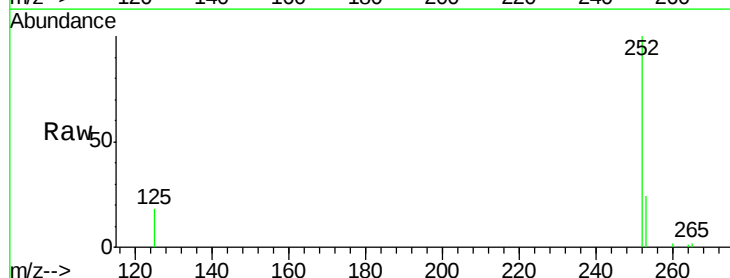
Instrument :
BNA_E
ClientSampleId :
YS19-SS25-1014

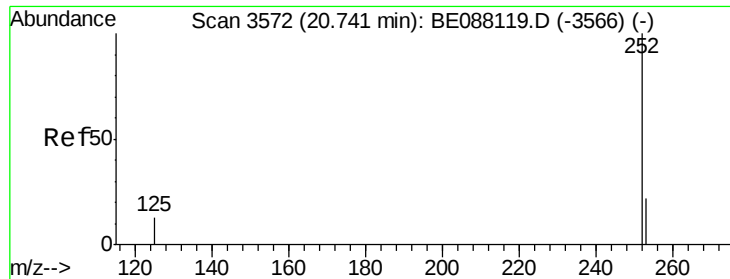
Tgt Ion:264 Resp: 92522
Ion Ratio Lower Upper
264 100
260 23.4 19.0 28.4
265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
Concen: 0.36 ng
RT: 20.68 min Scan# 3560
Delta R.T. -0.00 min
Lab File: BE088127.D
Acq: 21 Oct 2014 6:18

Tgt Ion:252 Resp: 7849
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.0
125 18.1 11.8 17.8#





#24

Benzo(k)fluoranthene

Concen: 0.15 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

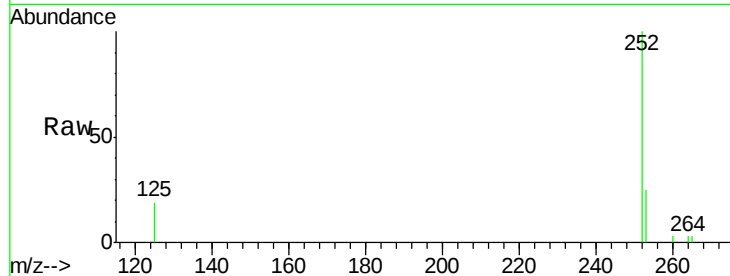
Tgt Ion: 252 Resp: 3421

Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

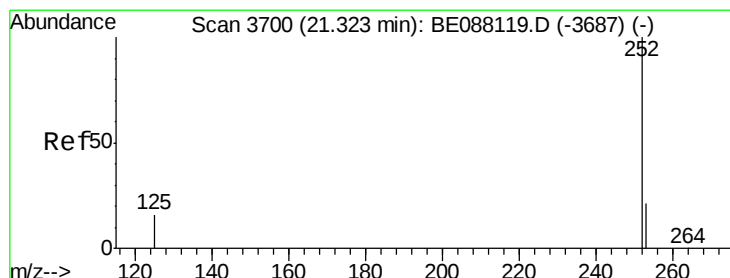
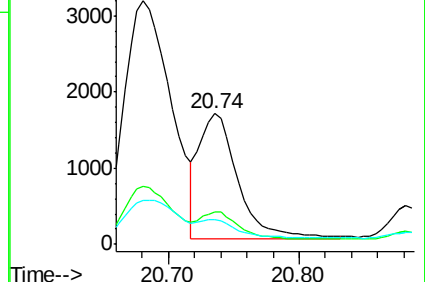
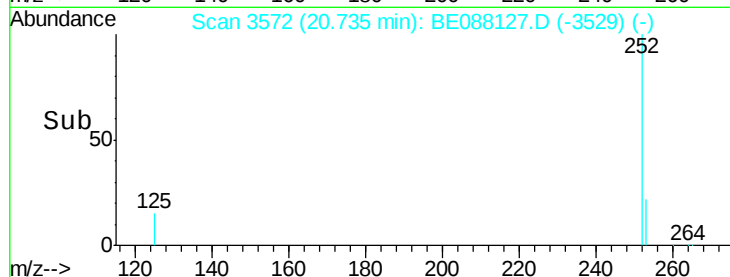
125 19.2 11.5 17.3#



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: 0.24 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

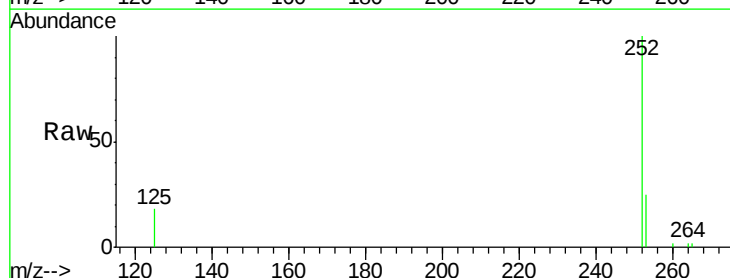
Tgt Ion: 252 Resp: 4816

Ion Ratio Lower Upper

252 100

253 24.5 17.5 26.3

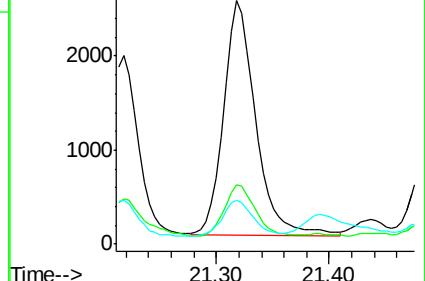
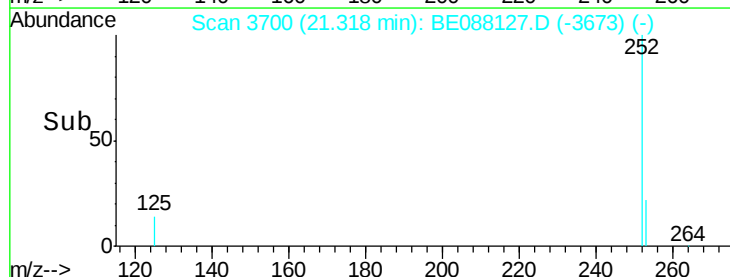
125 18.1 13.0 19.6

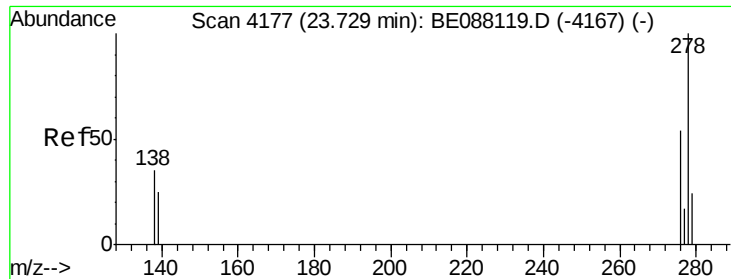


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 23.72 min Scan# 4177

Delta R.T. -0.01 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Instrument :

BNA_E

ClientSampleId :

YS19-SS25-1014

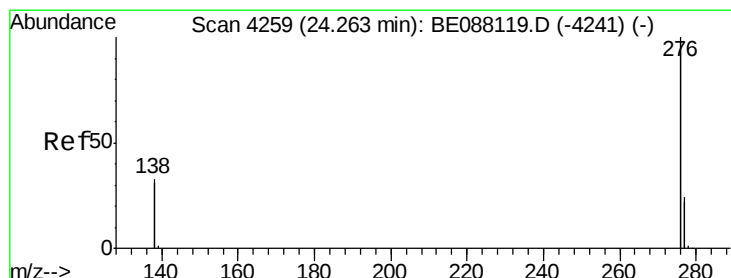
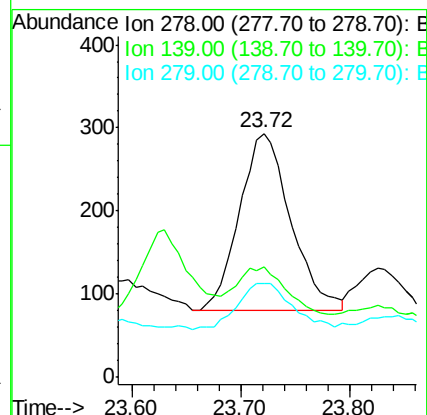
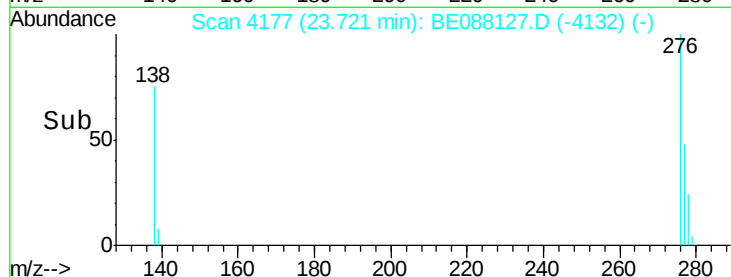
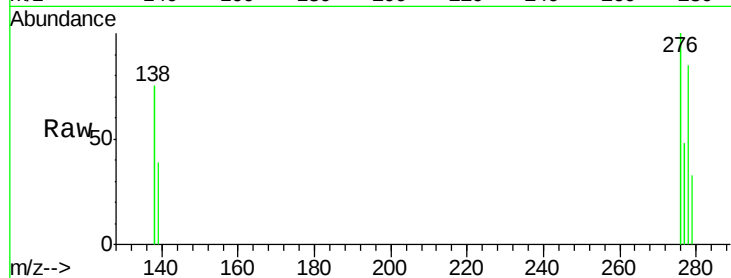
Tgt Ion: 278 Resp: 702

Ion Ratio Lower Upper

278 100

139 45.4 20.9 31.3#

279 38.2 19.8 29.8#



#27

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088127.D

Acq: 21 Oct 2014 6:18

Tgt Ion: 276 Resp: 13883

Ion Ratio Lower Upper

276 100

277 27.5 19.2 28.8

138 36.7 26.6 40.0

