

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088166.D
 Acq On : 22 Oct 2014 5:47
 Operator : TP/JJ
 Sample : F4303-14DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB04-1014DL

Quant Time: Oct 22 06:47:43 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

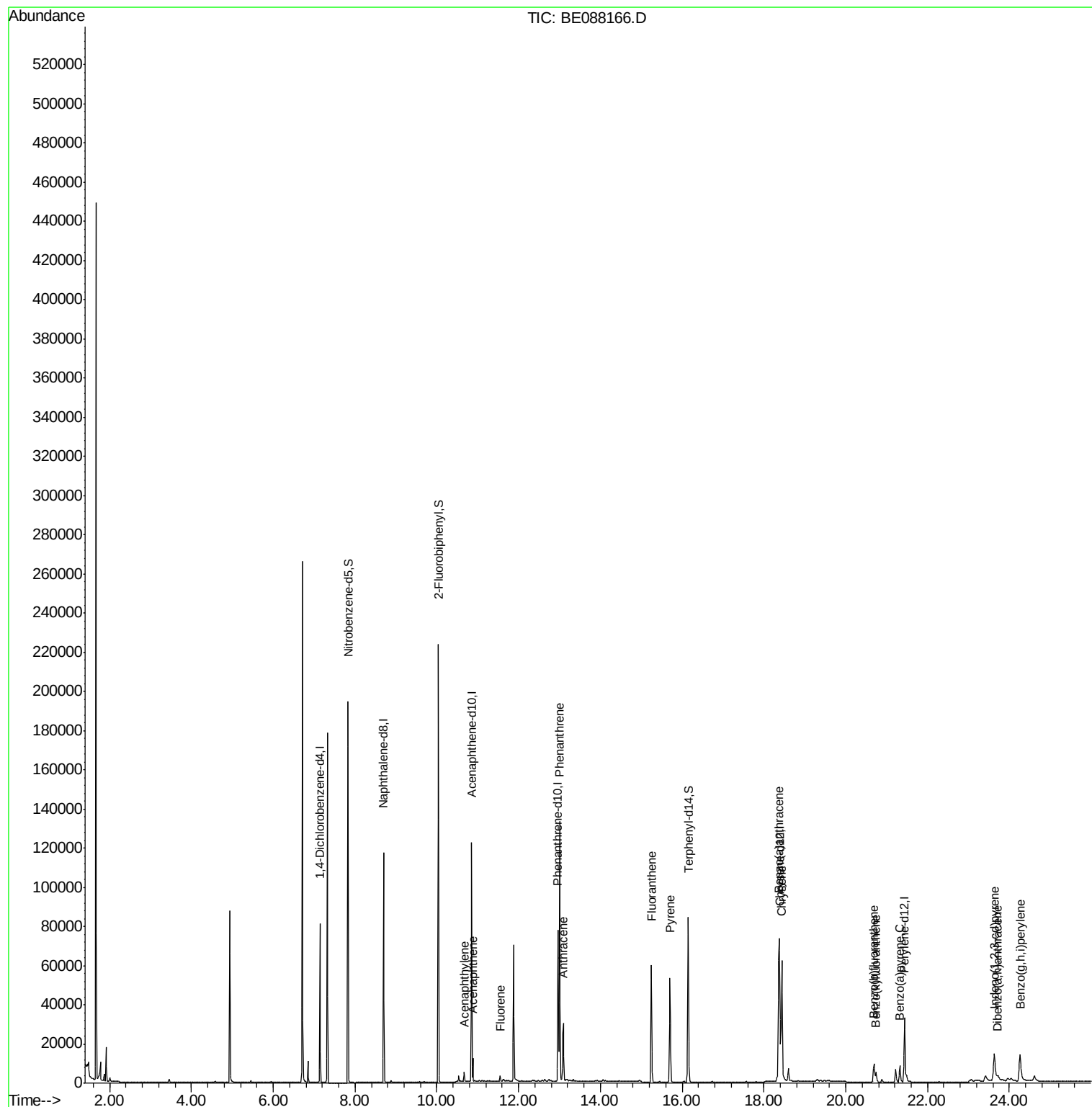
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	22265	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	87594	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	47456	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	90888	5.00	ng	0.00
16) Chrysene-d12	18.38	240	52385	5.00	ng	0.00
22) Perylene-d12	21.44	264	43814	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	82478	13.06	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	132465	10.11	ng	0.00
18) Terphenyl-d14	16.15	244	103789	12.31	ng	0.00
Target Compounds						Qvalue
9) Acenaphthylene	10.67	152	5219	0.07	ng	99
10) Acenaphthene	10.88	154	1563	0.14	ng	88
11) Fluorene	11.55	166	1718	0.15	ng	97
13) Phenanthrene	13.01	178	136434	1.90	ng	95
14) Anthracene	13.09	178	29190	0.41	ng	97
15) Fluoranthene	15.25	202	56476	3.27	ng	99
17) Pyrene	15.70	202	49407	3.47	ng	96
19) Benzo(a)anthracene	18.36	228	80366	1.73	ng	98
20) Chrysene	18.44	228	84081	1.84	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	32385	0.64	ng	# 89
23) Benzo(b)fluoranthene	20.69	252	17713	1.70	ng	98
24) Benzo(k)fluoranthene	20.74	252	7544	0.68	ng	97
25) Benzo(a)pyrene	21.32	252	12673	1.32	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	1781	0.19	ng	# 84
27) Benzo(g,h,i)perylene	24.26	276	30885	0.74	ng	98

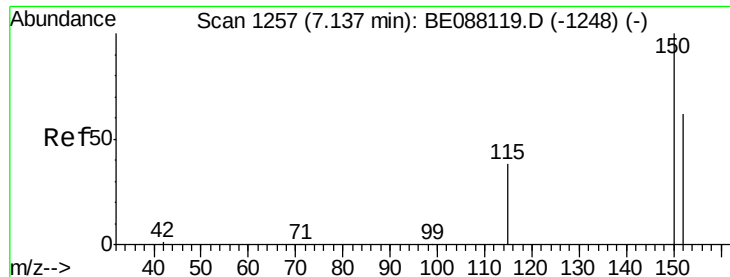
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

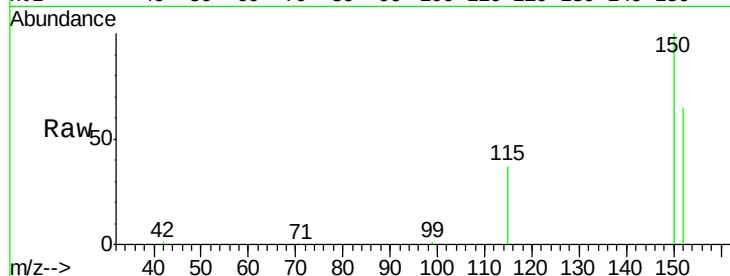
Tgt Ion:152 Resp: 22265

Ion Ratio Lower Upper

152 100

150 153.4 129.2 193.8

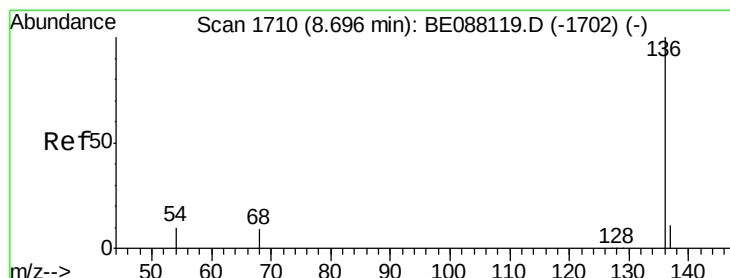
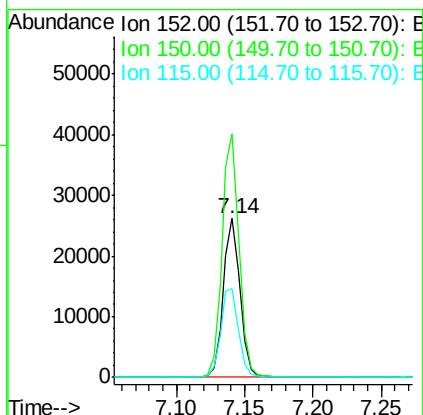
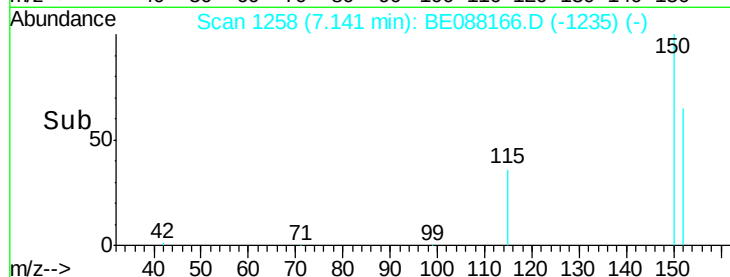
115 56.0 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

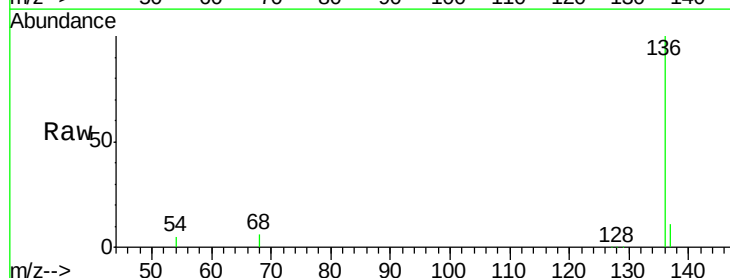
Tgt Ion:136 Resp: 87594

Ion Ratio Lower Upper

136 100

137 11.2 8.6 12.8

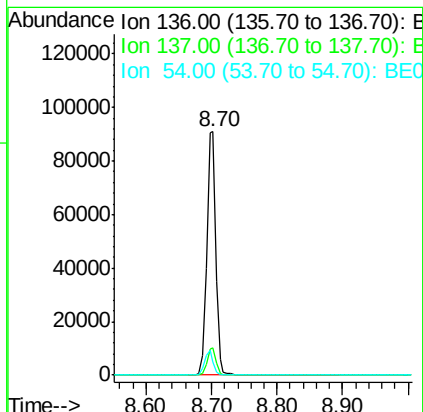
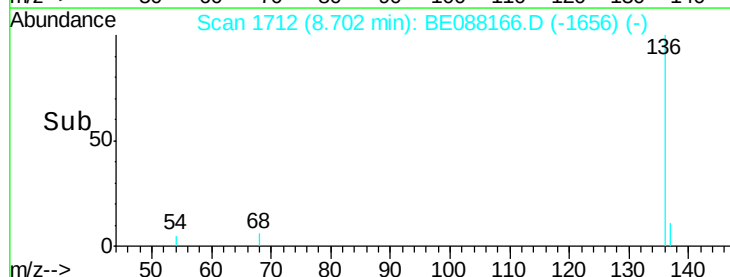
54 5.4 7.7 11.5#

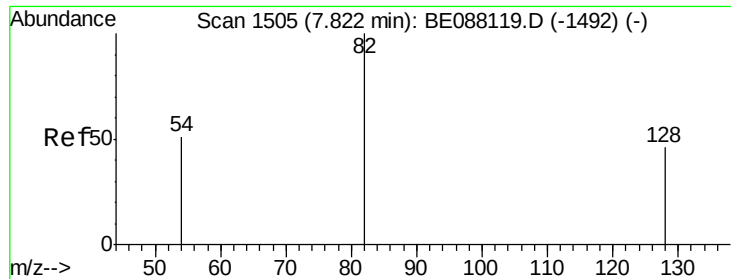


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 13.06 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

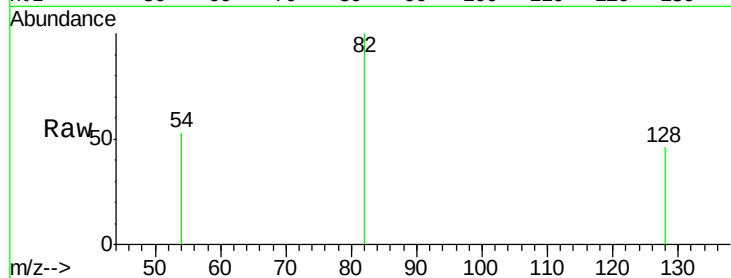
Tgt Ion: 82 Resp: 82478

Ion Ratio Lower Upper

82 100

128 45.7 37.1 55.7

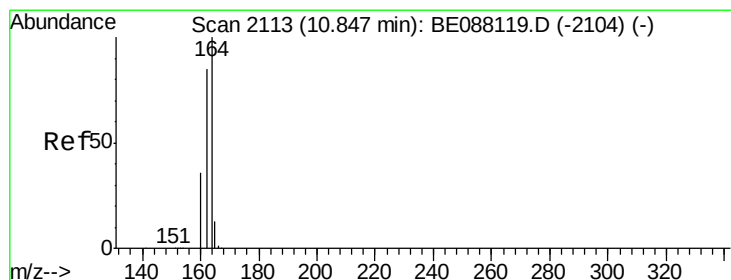
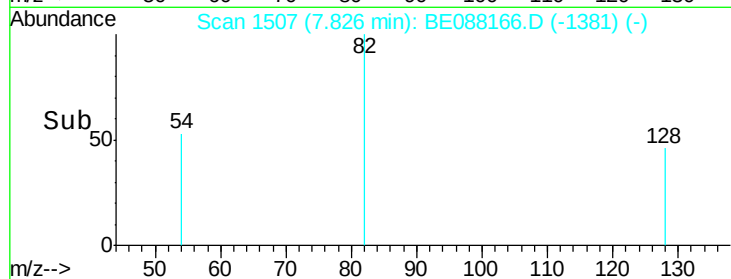
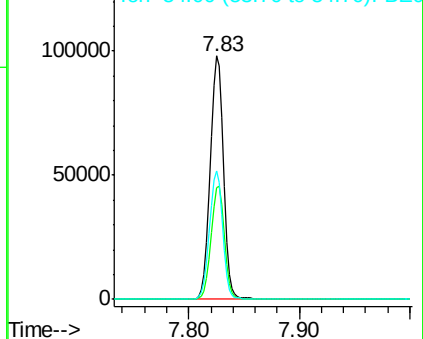
54 52.9 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE088119.D (-1492) (-)

Ion 128.00 (127.70 to 128.70): BE088119.D (-1492) (-)

Ion 54.00 (53.70 to 54.70): BE088119.D (-1492) (-)



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

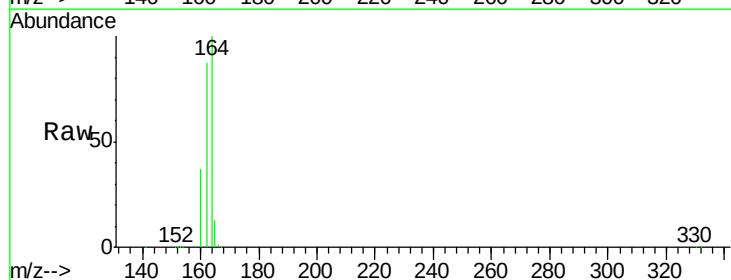
Tgt Ion: 164 Resp: 47456

Ion Ratio Lower Upper

164 100

162 86.7 68.3 102.5

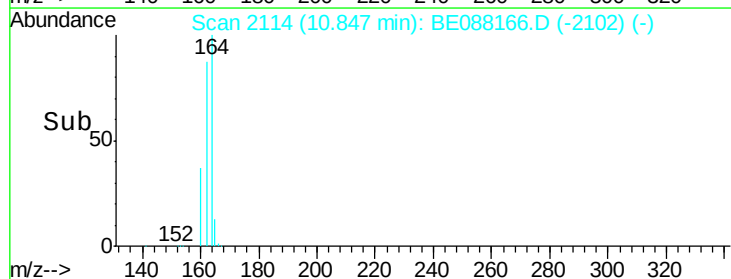
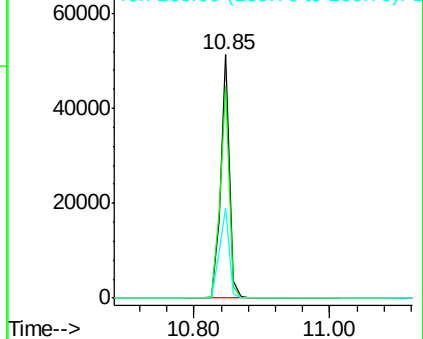
160 37.0 28.7 43.1

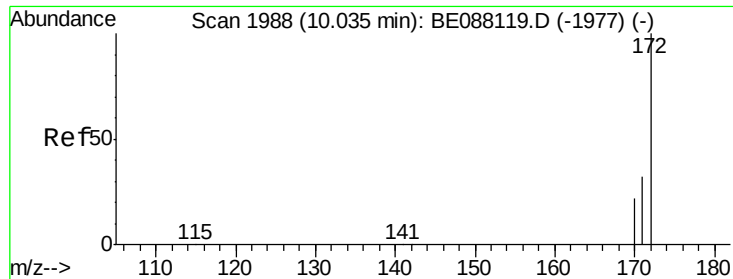


Abundance Ion 164.00 (163.70 to 164.70): BE088119.D (-2104) (-)

Ion 162.00 (161.70 to 162.70): BE088119.D (-2104) (-)

Ion 160.00 (159.70 to 160.70): BE088119.D (-2104) (-)





#8

2-Fluorobiphenyl

Concen: 10.11 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

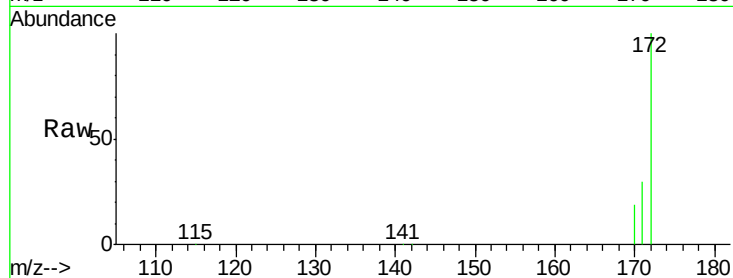
Tgt Ion:172 Resp: 132465

Ion Ratio Lower Upper

172 100

171 30.4 25.4 38.2

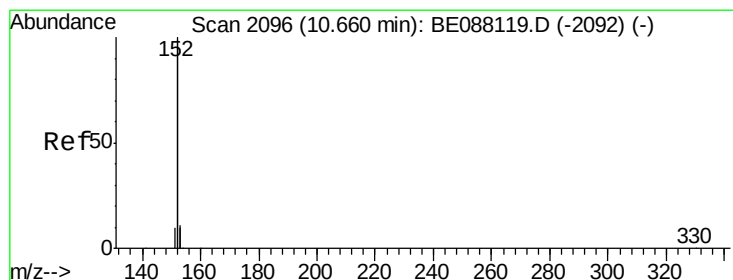
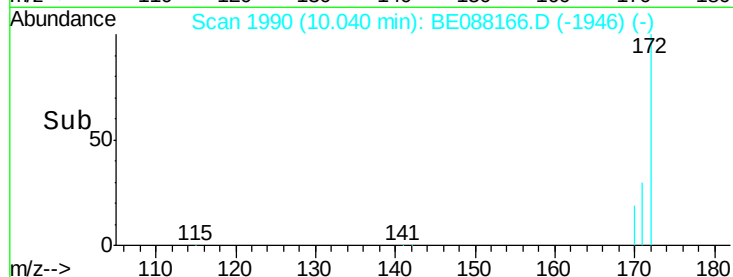
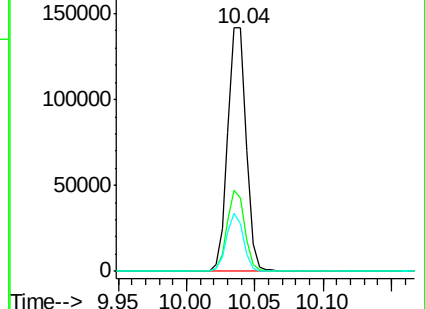
170 19.4 17.4 26.2



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: 0.07 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

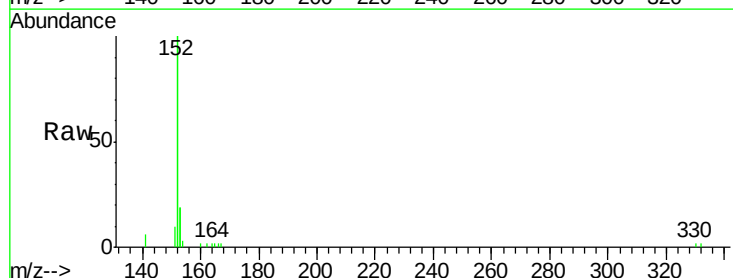
Tgt Ion:152 Resp: 5219

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

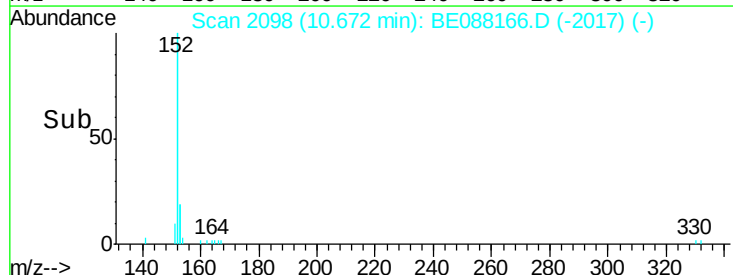
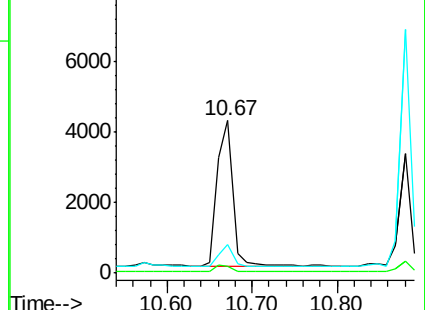
153 13.7 10.4 15.6

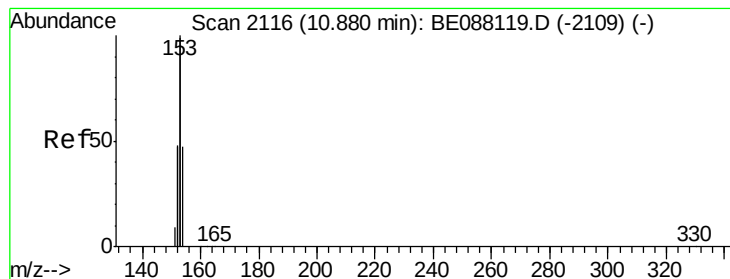


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.14 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

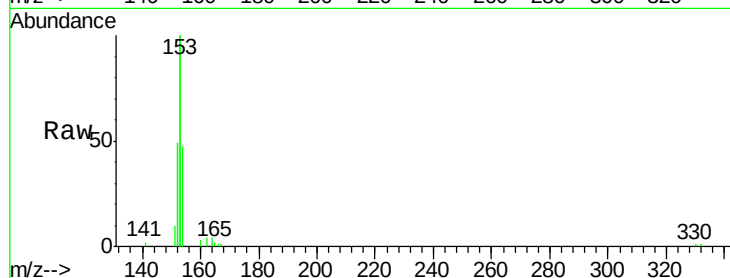
Tgt Ion:154 Resp: 1563

Ion Ratio Lower Upper

154 100

153 369.9 327.8 491.6

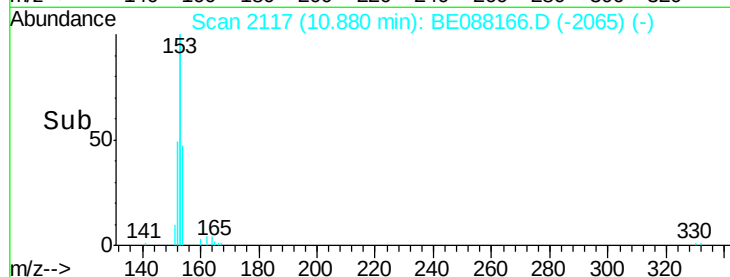
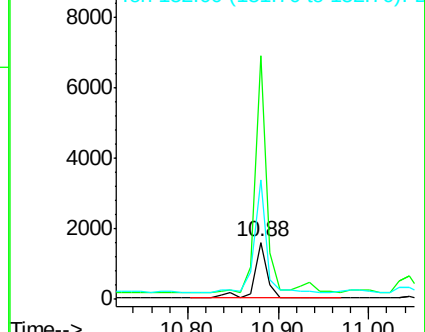
152 200.6 157.6 236.4



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: 0.15 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

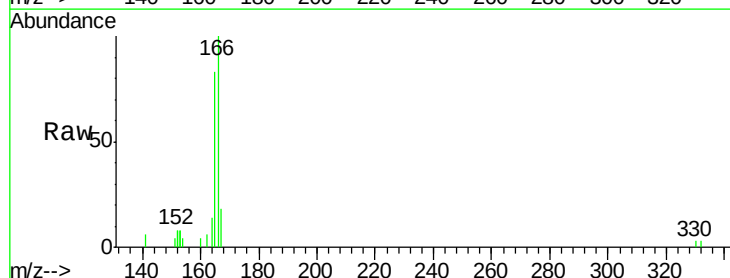
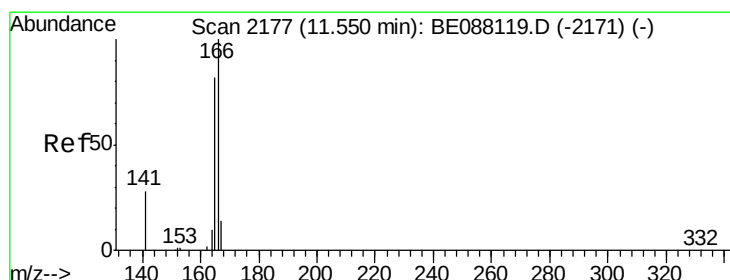
Tgt Ion:166 Resp: 1718

Ion Ratio Lower Upper

166 100

165 92.5 71.4 107.2

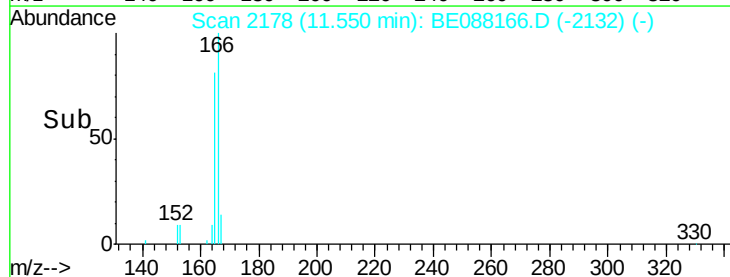
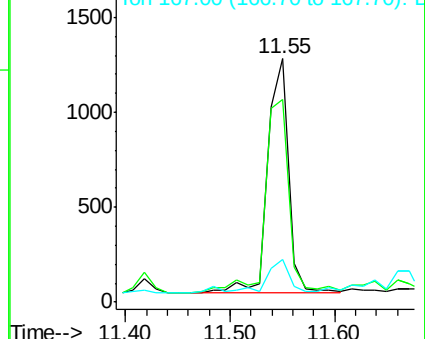
167 14.4 10.6 16.0

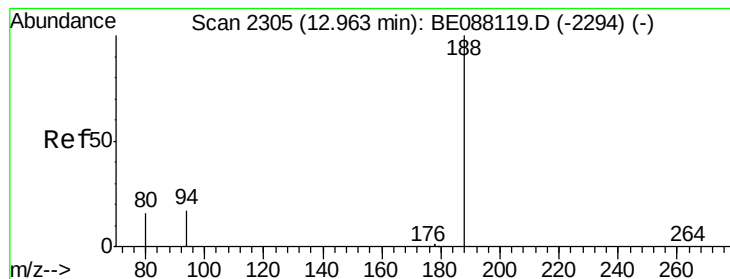


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

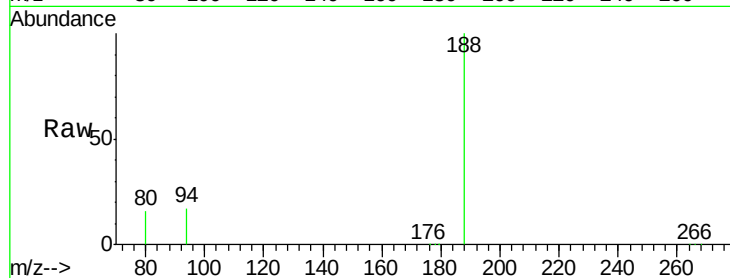
Tgt Ion:188 Resp: 90888

Ion Ratio Lower Upper

188 100

94 16.8 13.9 20.9

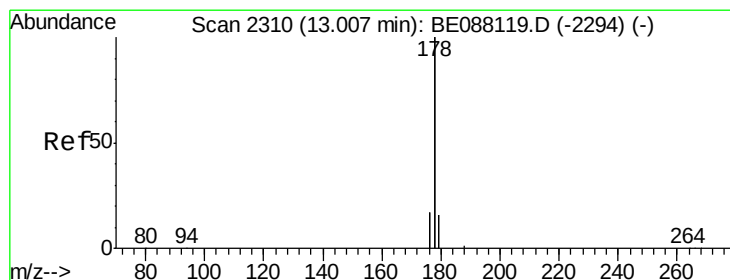
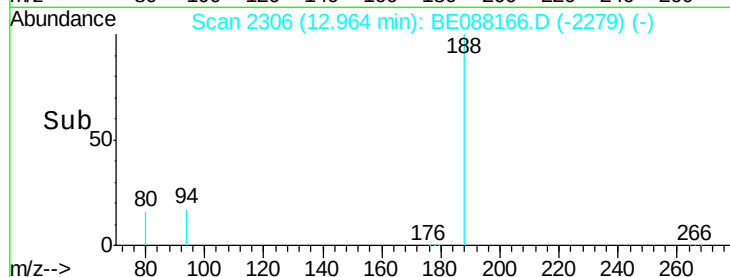
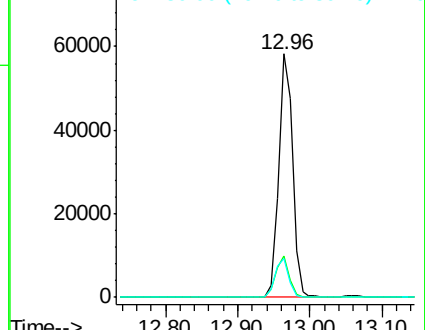
80 15.9 12.9 19.3



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: 1.90 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

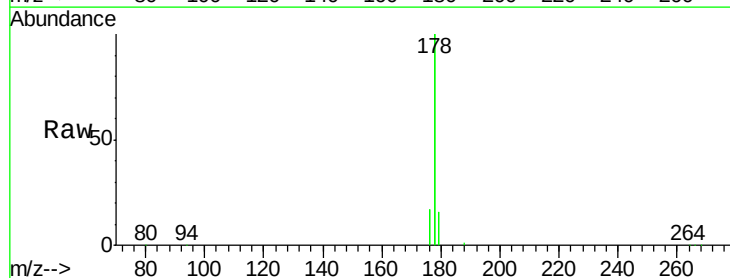
Tgt Ion:178 Resp: 136434

Ion Ratio Lower Upper

178 100

176 18.4 12.5 18.7

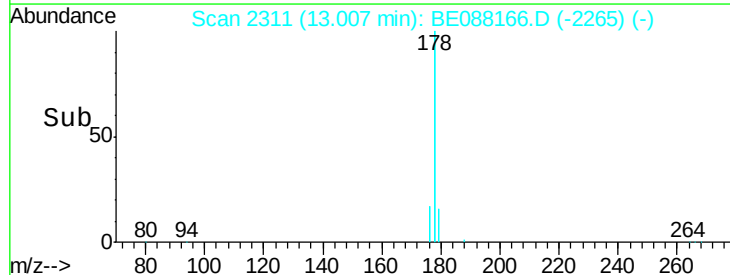
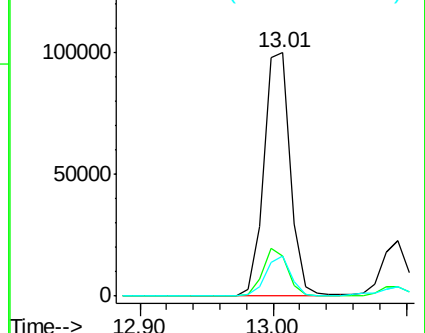
179 15.4 13.5 20.3

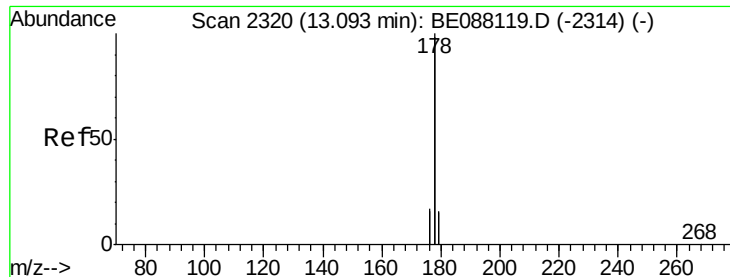


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 0.41 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

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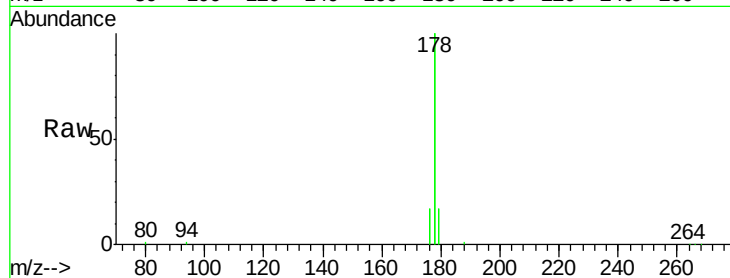
Tgt Ion:178 Resp: 29190

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

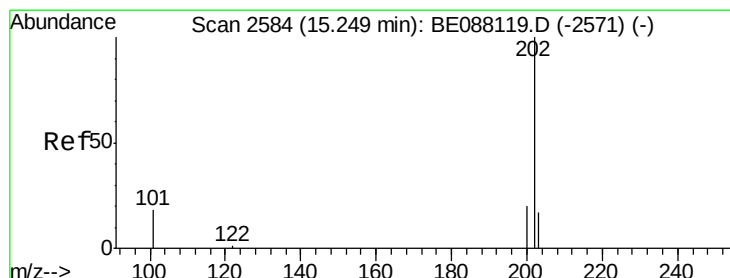
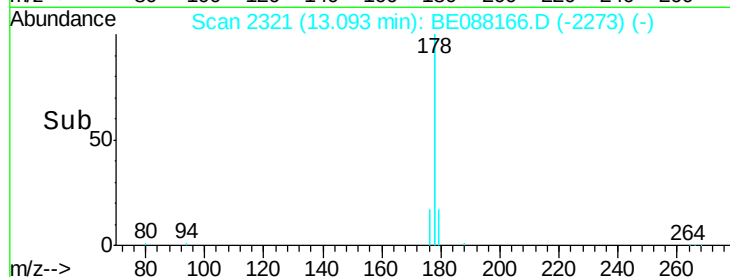
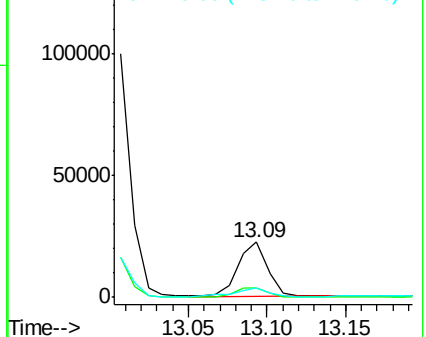
179 18.3 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#15

Fluoranthene

Concen: 3.27 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

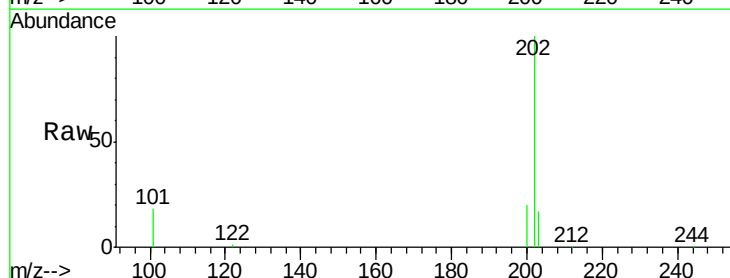
Tgt Ion:202 Resp: 56476

Ion Ratio Lower Upper

202 100

101 18.2 14.8 22.2

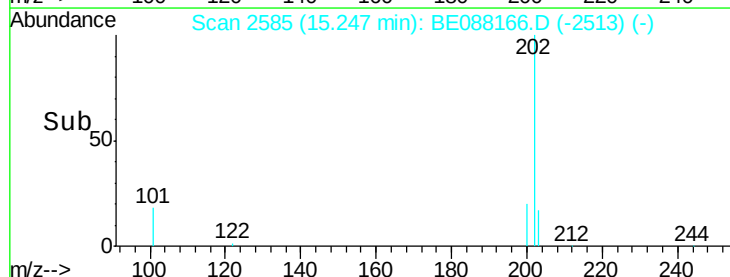
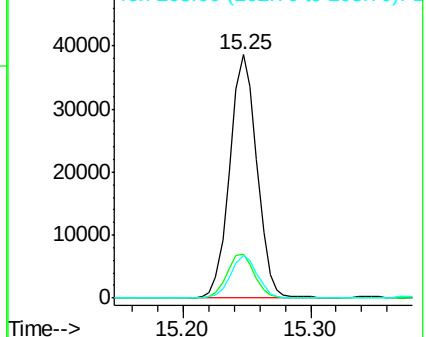
203 17.2 13.5 20.3

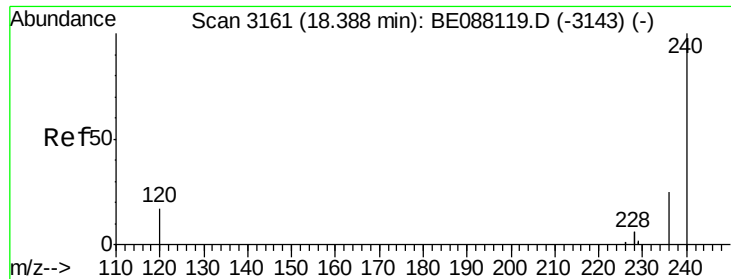


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.38 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

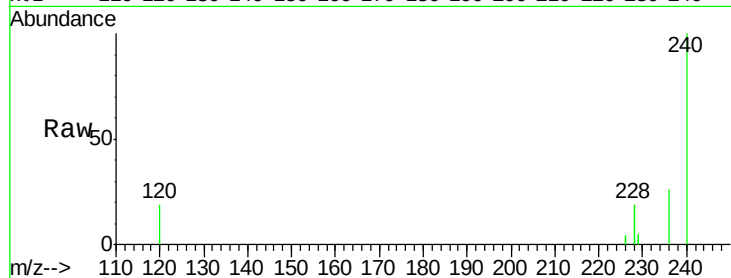
Tgt Ion:240 Resp: 52385

Ion Ratio Lower Upper

240 100

120 19.5 13.9 20.9

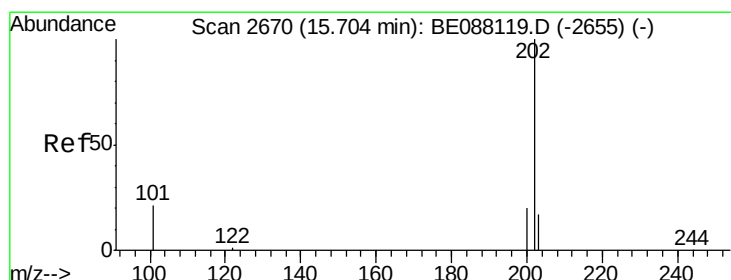
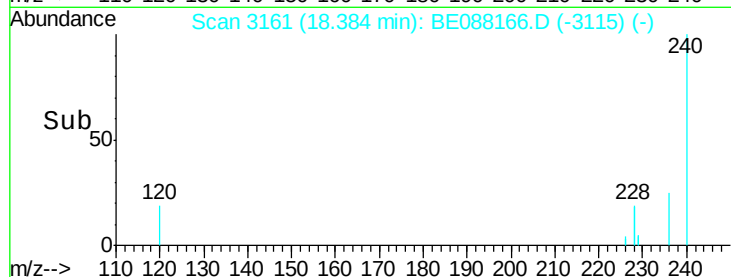
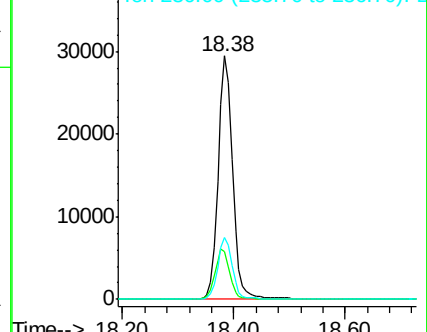
236 25.6 19.9 29.9



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: 3.47 ng

RT: 15.70 min Scan# 2671

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

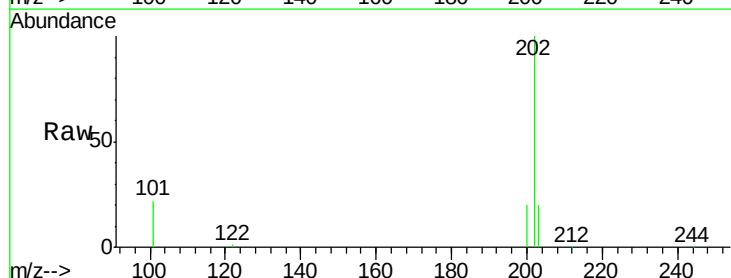
Tgt Ion:202 Resp: 49407

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

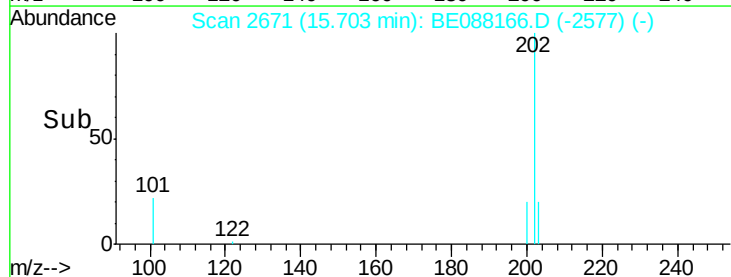
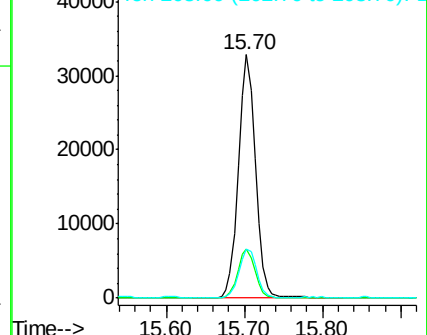
203 20.6 13.9 20.9

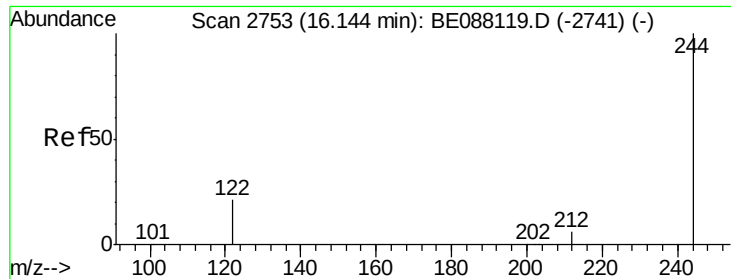


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 12.31 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

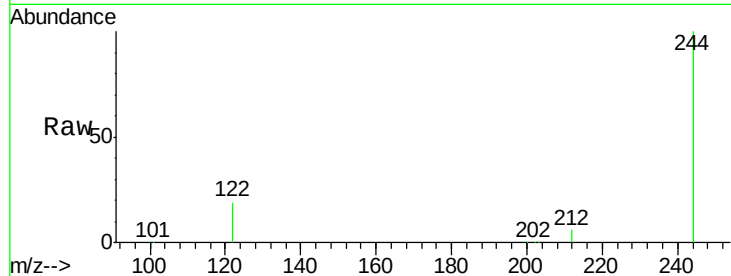
Tgt Ion:244 Resp: 103789

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

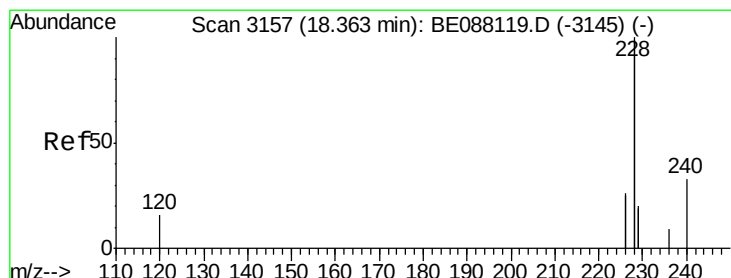
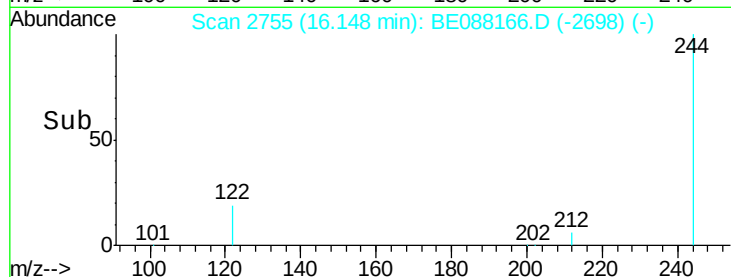
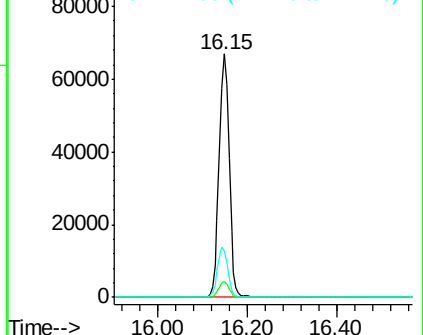
122 19.3 17.5 26.3



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: 1.73 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

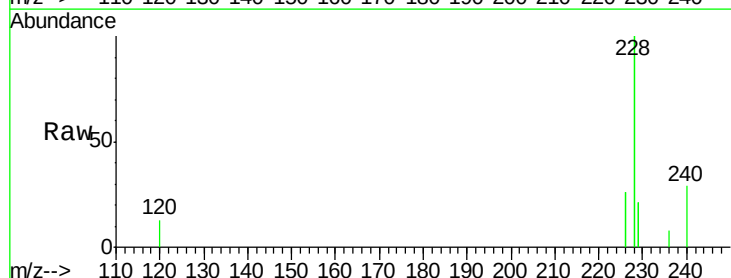
Tgt Ion:228 Resp: 80366

Ion Ratio Lower Upper

228 100

226 25.8 20.8 31.2

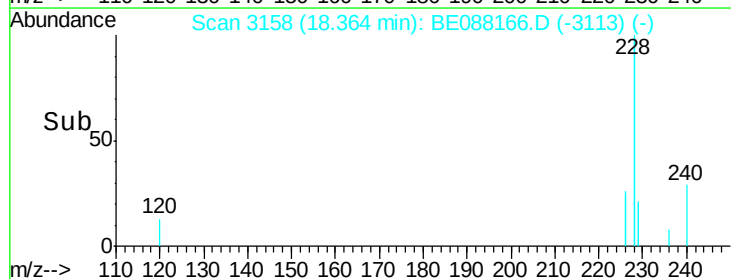
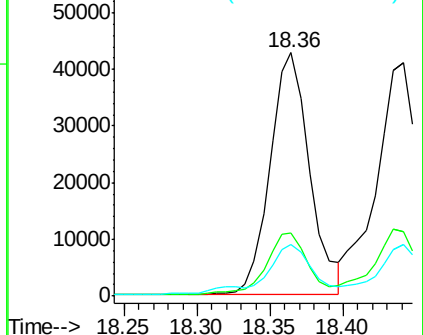
229 21.3 15.6 23.4

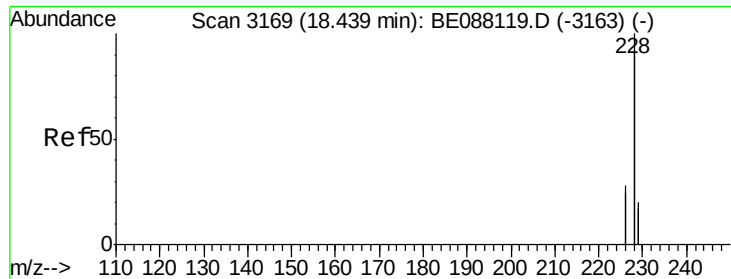


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 1.84 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

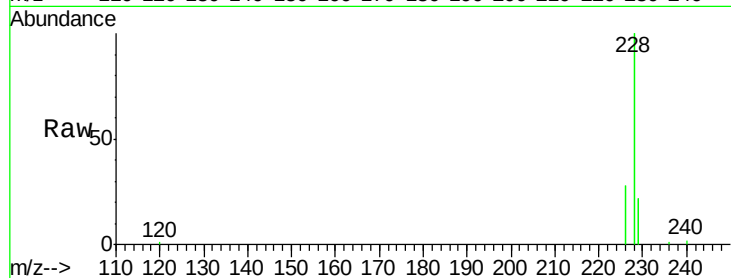
Tgt Ion:228 Resp: 84081

Ion Ratio Lower Upper

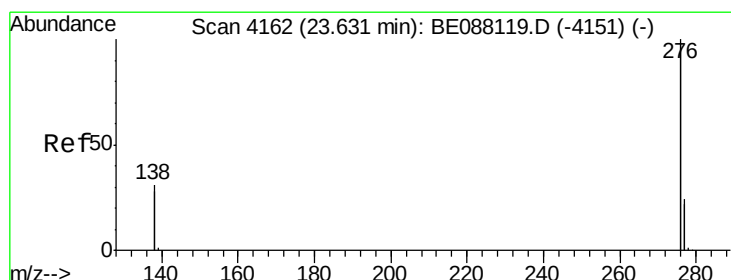
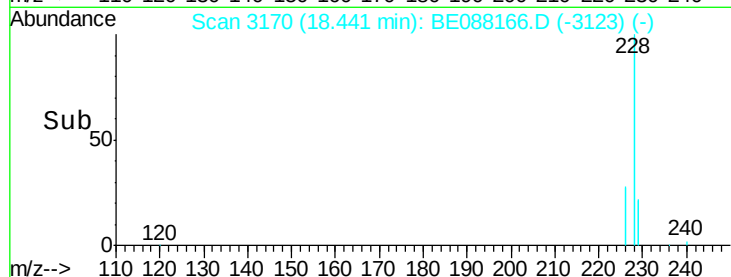
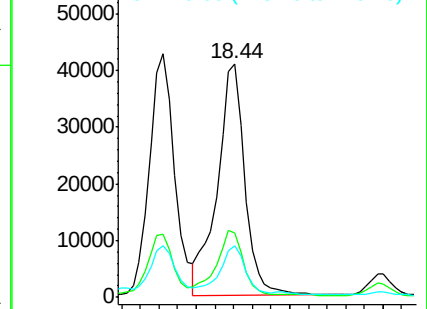
228 100

226 27.7 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: 0.64 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

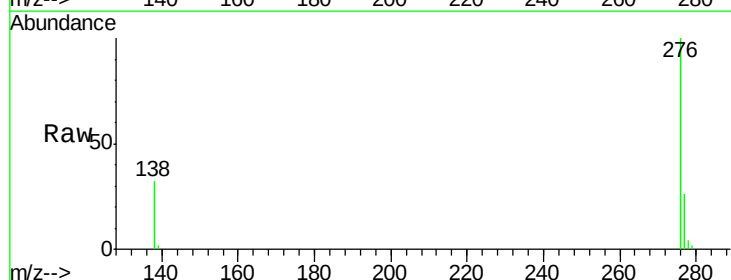
Tgt Ion:276 Resp: 32385

Ion Ratio Lower Upper

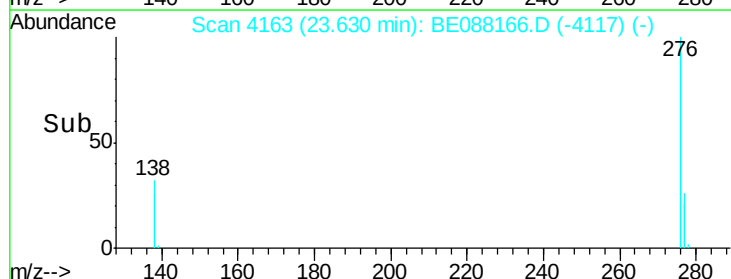
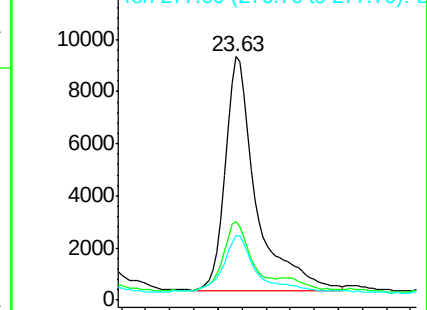
276 100

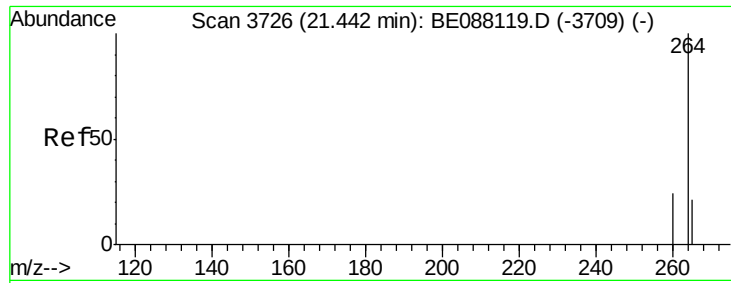
138 26.4 18.5 27.7

277 25.3 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# 3726

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

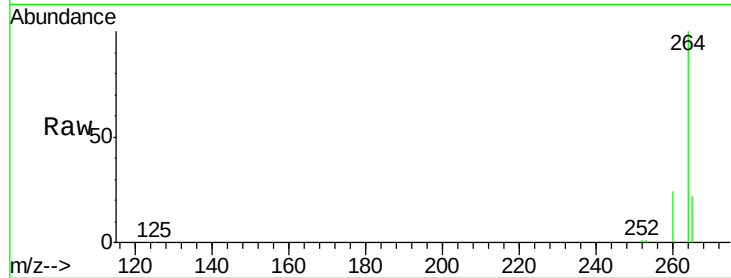
Tgt Ion:264 Resp: 43814

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

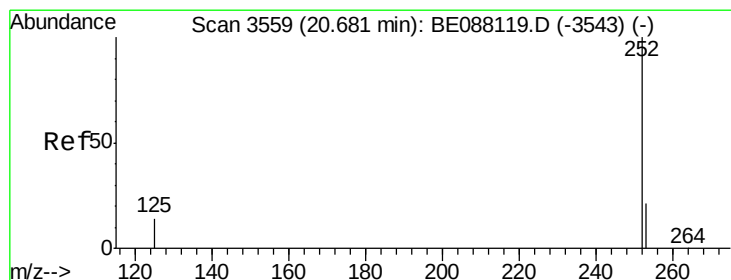
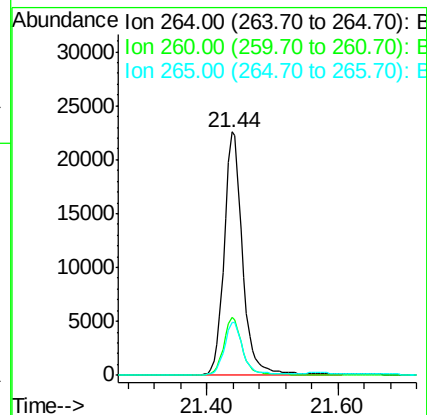
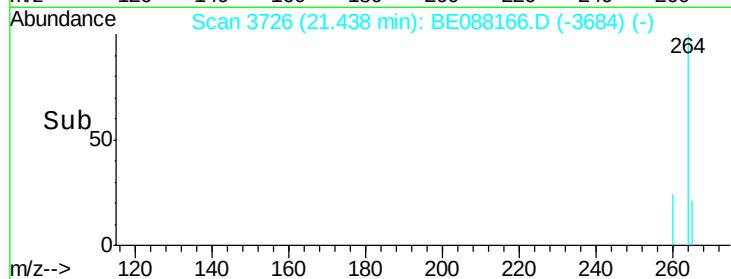
265 21.5 17.2 25.8



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: 1.70 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

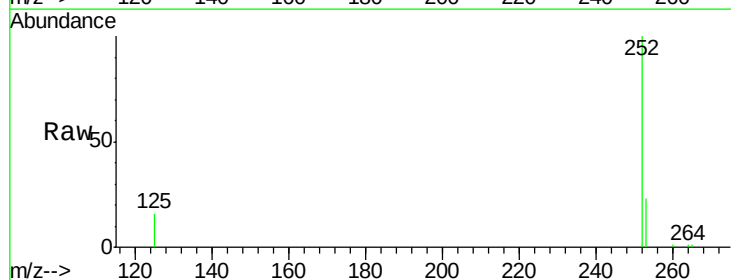
Tgt Ion:252 Resp: 17713

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

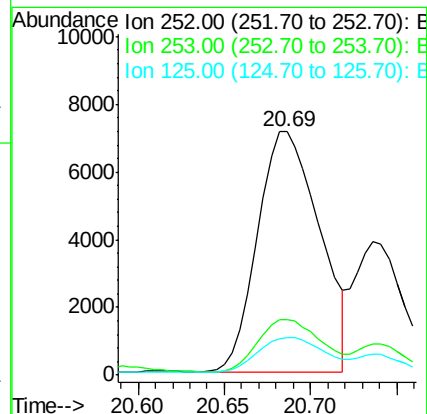
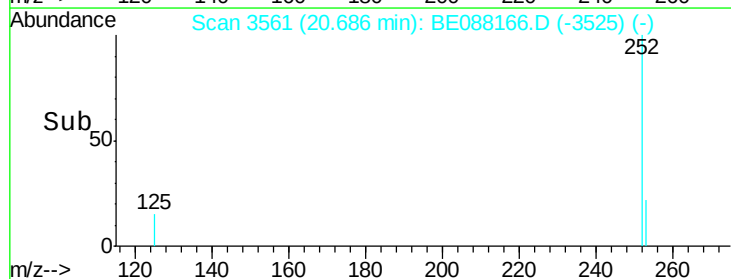
125 15.5 11.8 17.8

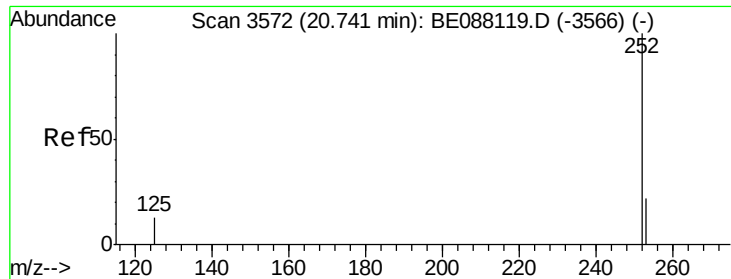


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.68 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

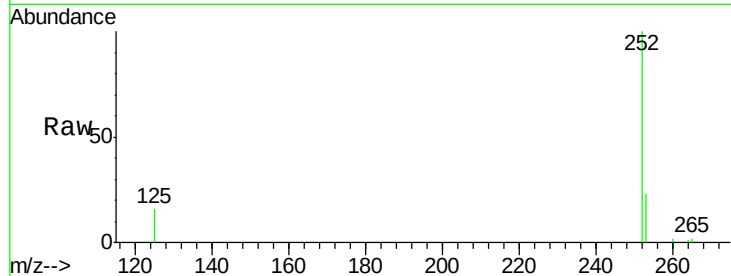
Tgt Ion:252 Resp: 7544

Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

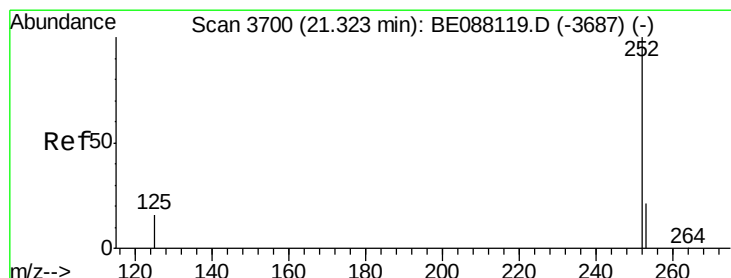
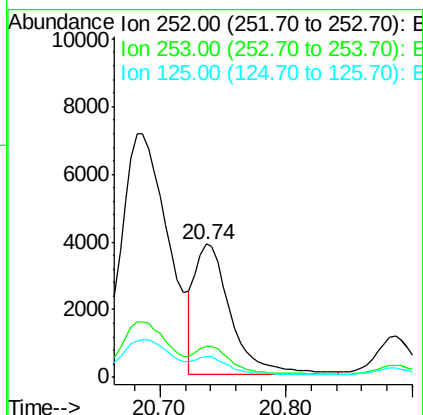
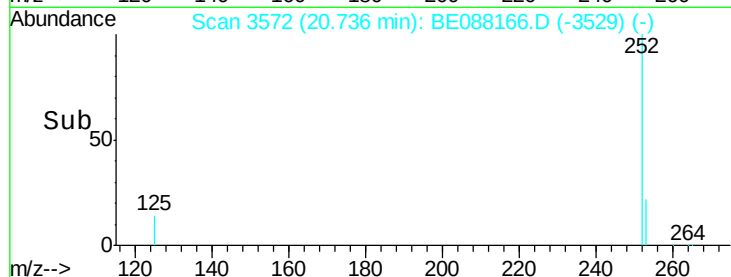
125 15.8 11.5 17.3



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: 1.32 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

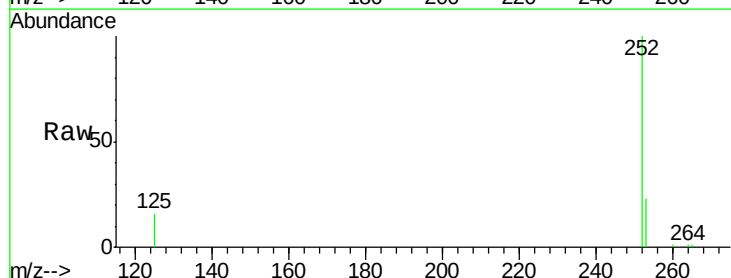
Tgt Ion:252 Resp: 12673

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

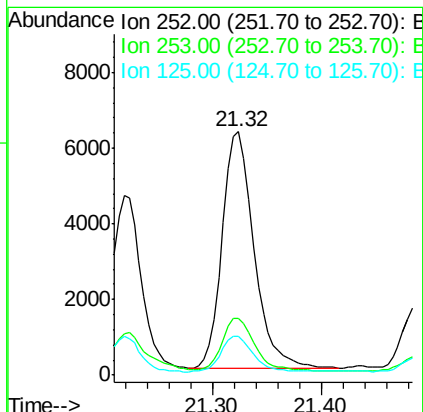
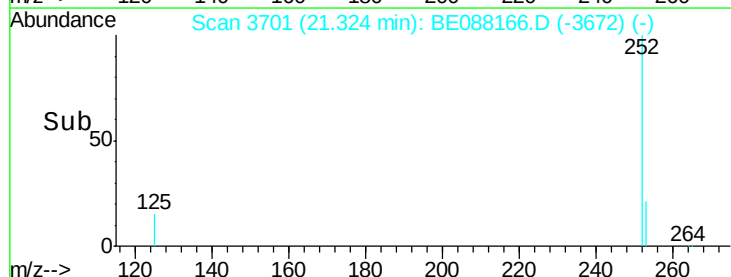
125 16.1 13.0 19.6

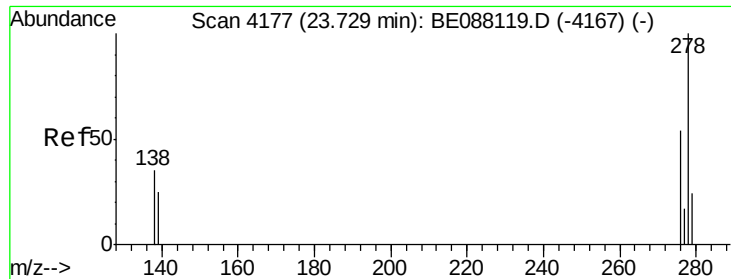


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Dibenzo(a,h)anthracene

Concen: 0.19 ng

RT: 23.72 min Scan# 4177

Delta R.T. -0.01 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

Instrument :

BNA_E

ClientSampleId :

YS19-SB04-1014DL

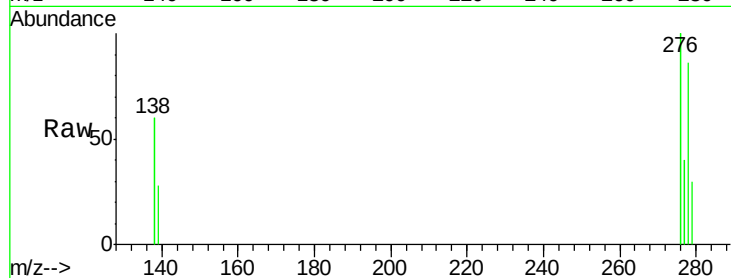
Tgt Ion: 278 Resp: 1781

Ion Ratio Lower Upper

278 100

139 32.8 20.9 31.3#

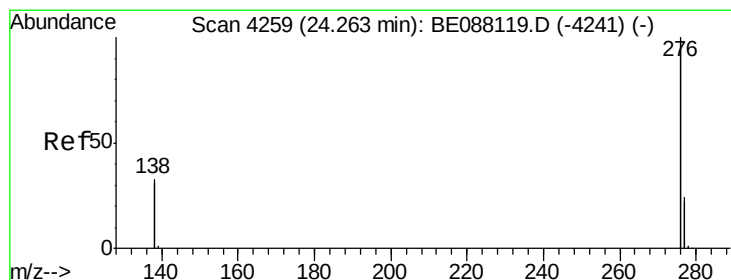
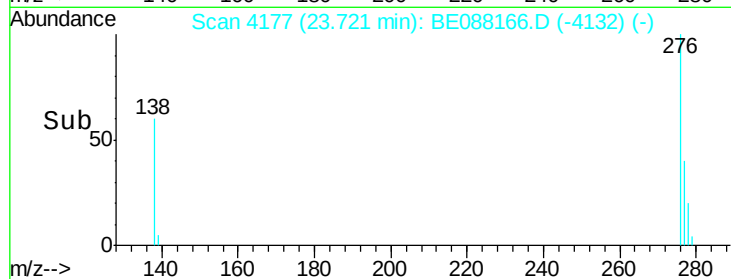
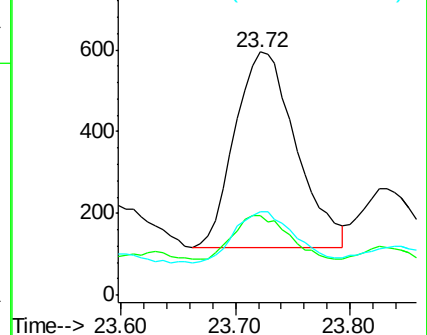
279 34.3 19.8 29.8#



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: 0.74 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088166.D

Acq: 22 Oct 2014 5:47

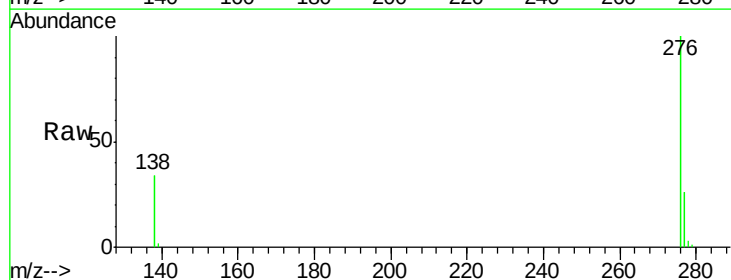
Tgt Ion: 276 Resp: 30885

Ion Ratio Lower Upper

276 100

277 25.5 19.2 28.8

138 33.8 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

