

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088152.D
 Acq On : 21 Oct 2014 20:46
 Operator : TP/JJ
 Sample : F4351-13
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW10-1014

Quant Time: Oct 22 04:38:56 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 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	26312	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	102902	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	53666	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	103630	5.00	ng	0.00
16) Chrysene-d12	18.38	240	65691	5.00	ng	0.00
22) Perylene-d12	21.44	264	52313	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.82	82	40967	5.52	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	81822	5.52	ng	0.00
18) Terphenyl-d14	16.15	244	87487	8.28	ng	0.00

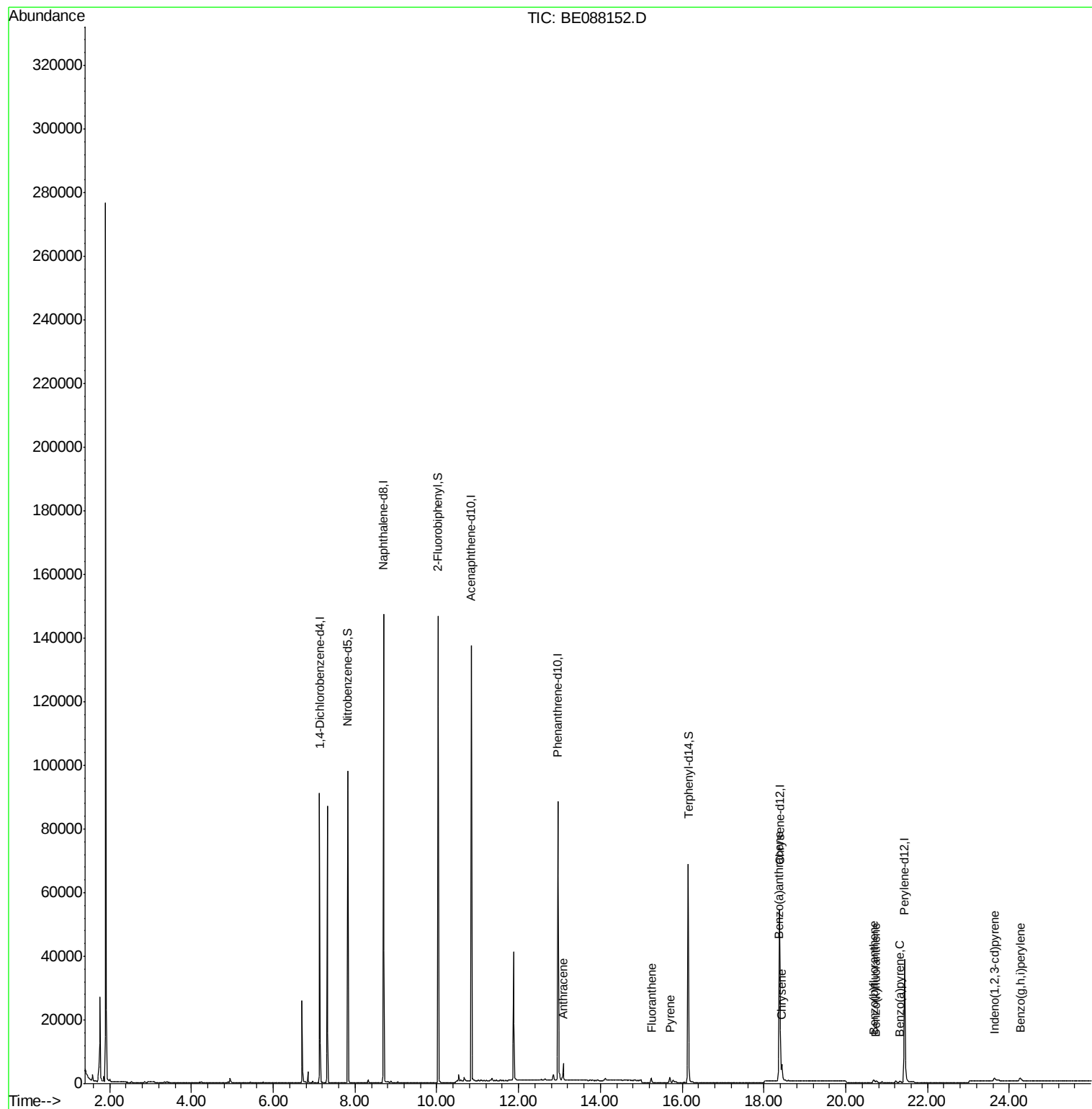
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Phenanthrene	13.00	178	3054	Below Cal		95
14) Anthracene	13.09	178	5903	0.07	ng	98
15) Fluoranthene	15.25	202	1573	0.08	ng	100
17) Pyrene	15.70	202	1788	0.10	ng	99
19) Benzo(a)anthracene	18.36	228	5072	0.09	ng	# 88
20) Chrysene	18.44	228	7765	0.14	ng	# 90
21) Indeno(1,2,3-cd)pyrene	23.64	276	2790	0.04	ng	98
23) Benzo(b)fluoranthene	20.68	252	1748	0.14	ng	# 81
24) Benzo(k)fluoranthene	20.74	252	994	0.07	ng	# 72
25) Benzo(a)pyrene	21.32	252	611	0.05	ng	# 60
27) Benzo(g,h,i)perylene	24.26	276	2670	0.05	ng	# 64

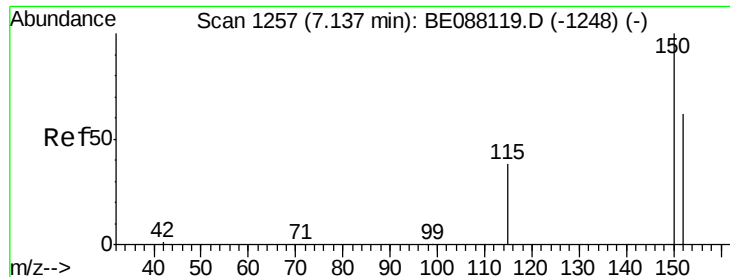
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

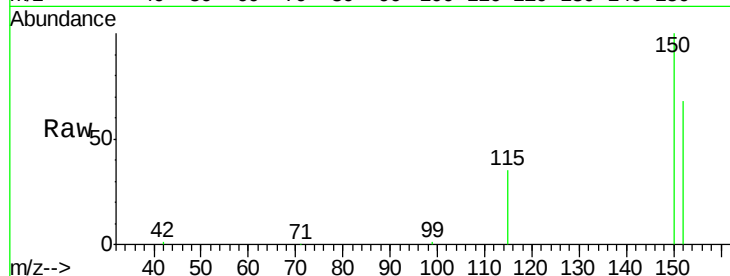
Tgt Ion:152 Resp: 26312

Ion Ratio Lower Upper

152 100

150 148.0 129.2 193.8

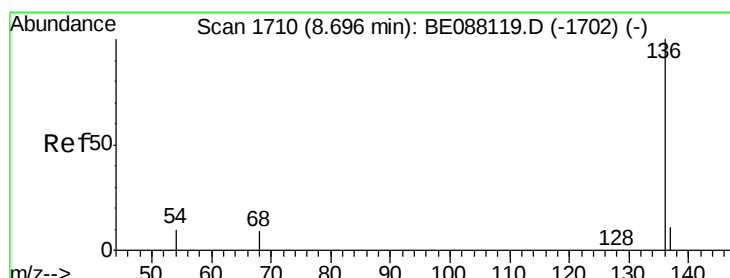
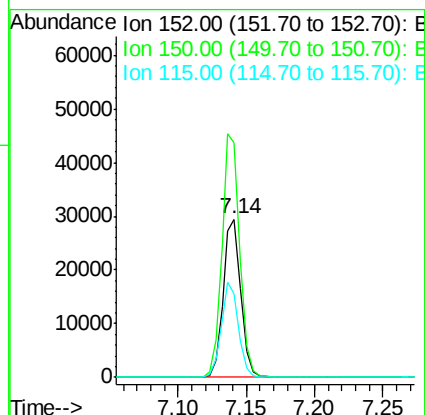
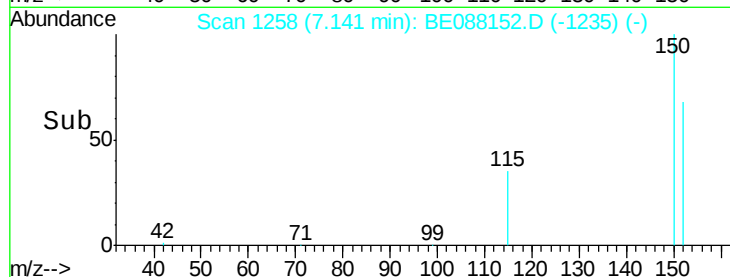
115 52.5 49.3 73.9



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# 1711

Delta R.T. 0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

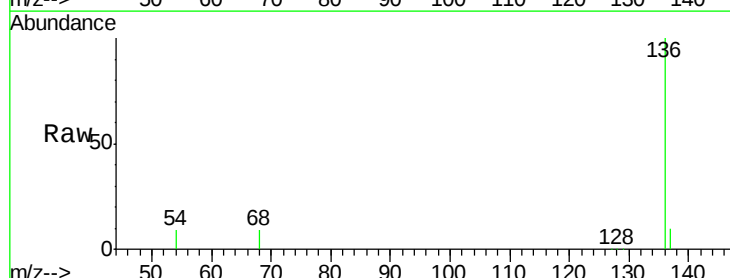
Tgt Ion:136 Resp: 102902

Ion Ratio Lower Upper

136 100

137 10.4 8.6 12.8

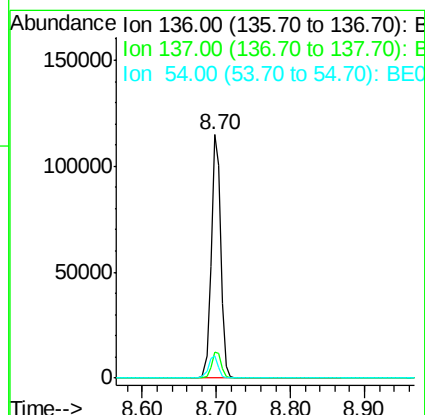
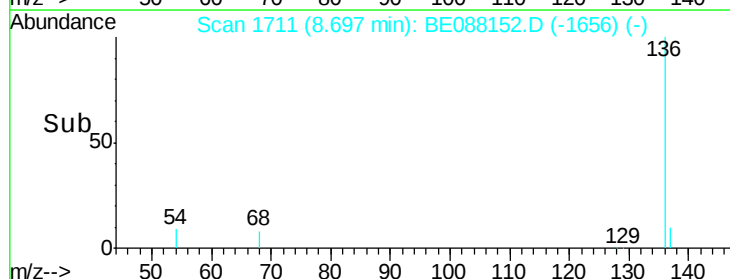
54 9.3 7.7 11.5

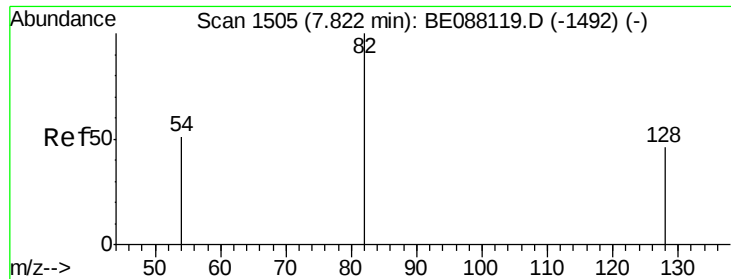


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 5.52 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

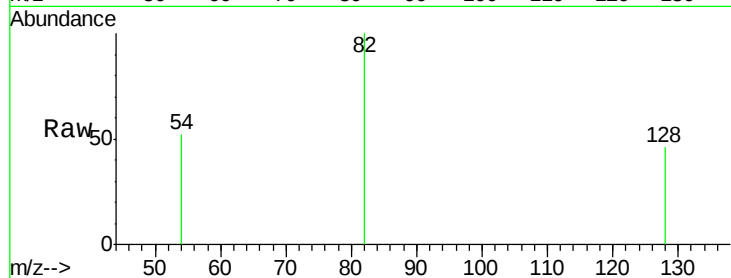
Tgt Ion: 82 Resp: 40967

Ion Ratio Lower Upper

82 100

128 45.8 37.1 55.7

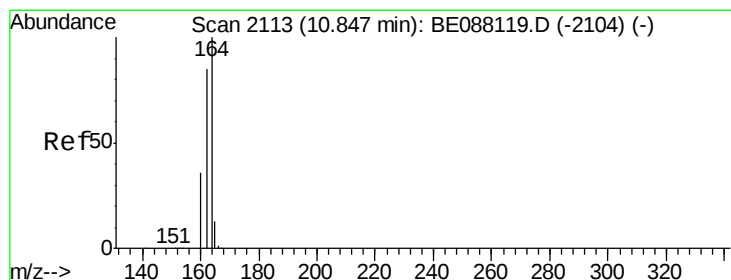
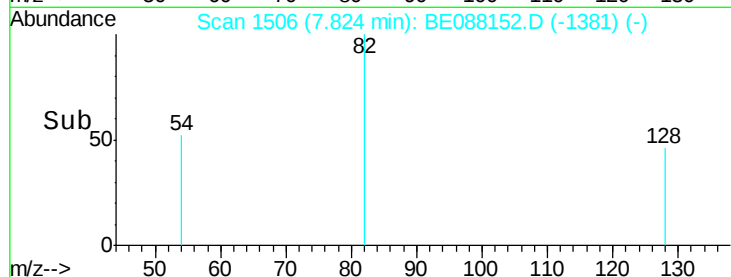
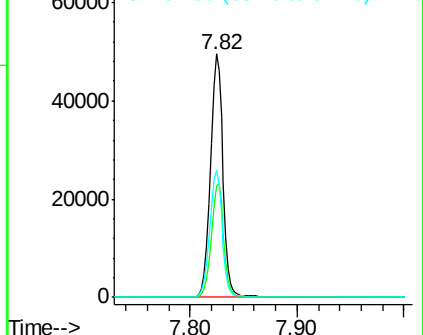
54 52.2 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

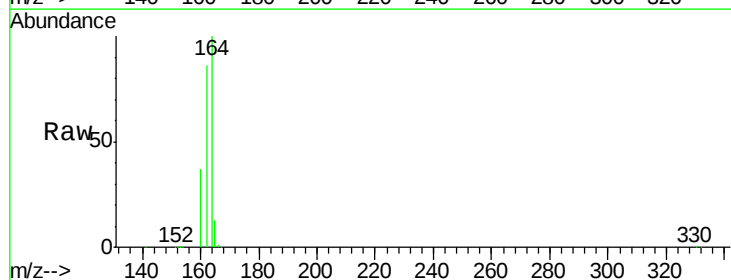
Tgt Ion: 164 Resp: 53666

Ion Ratio Lower Upper

164 100

162 86.4 68.3 102.5

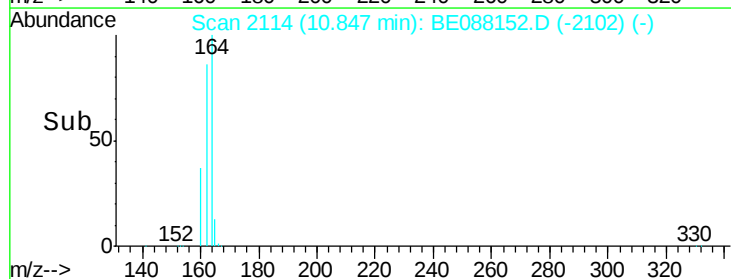
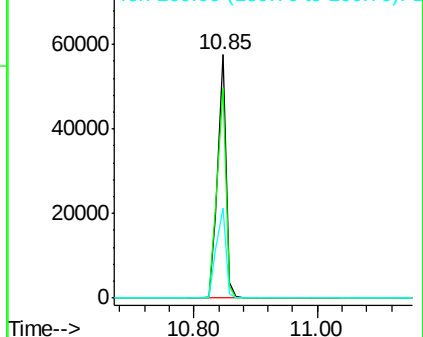
160 36.8 28.7 43.1

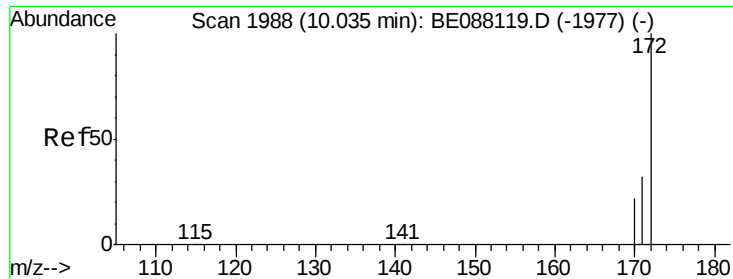


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

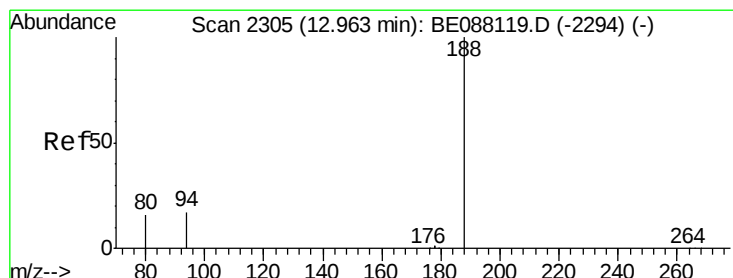
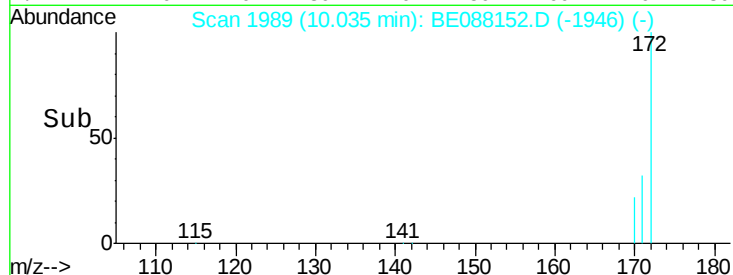
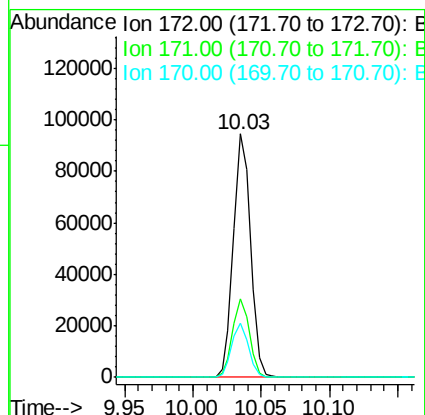
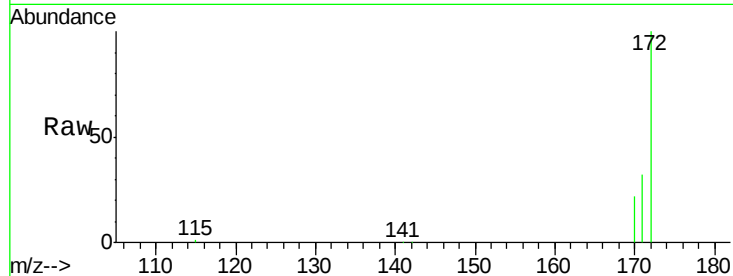




#8
2-Fluorobiphenyl
Concen: 5.52 ng
RT: 10.03 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088152.D
Acq: 21 Oct 2014 20:46

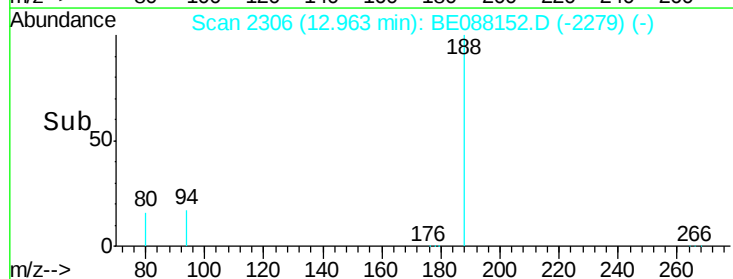
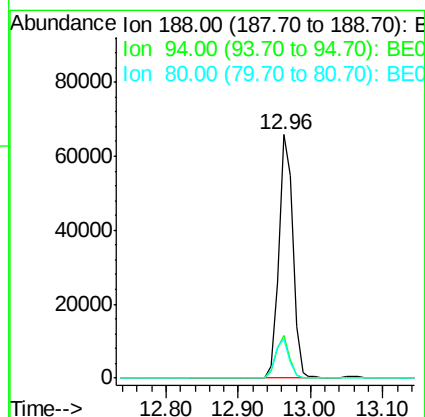
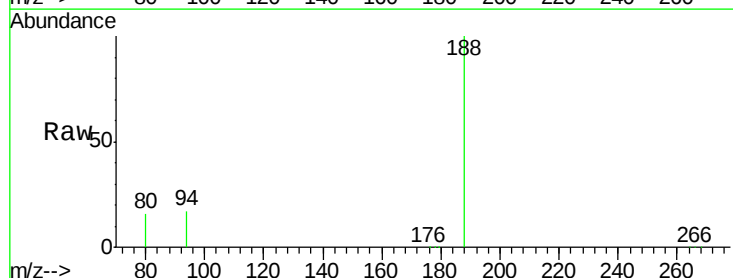
Instrument :
BNA_E
ClientSampleId :
YS19-SW10-1014

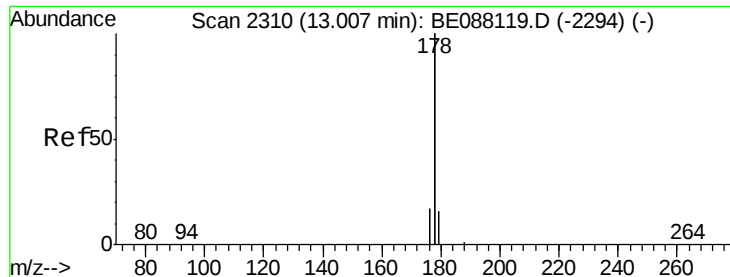
Tgt Ion:172 Resp: 81822
Ion Ratio Lower Upper
172 100
171 32.4 25.4 38.2
170 22.3 17.4 26.2



#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. -0.00 min
Lab File: BE088152.D
Acq: 21 Oct 2014 20:46

Tgt Ion:188 Resp: 103630
Ion Ratio Lower Upper
188 100
94 17.3 13.9 20.9
80 15.9 12.9 19.3

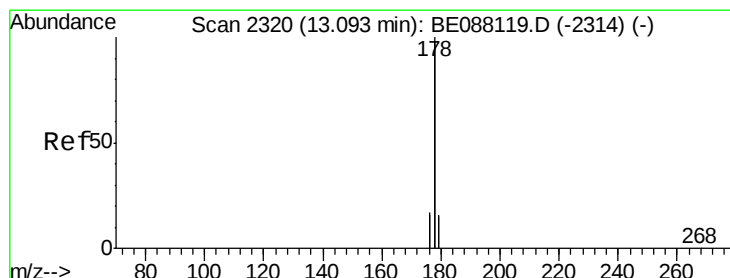
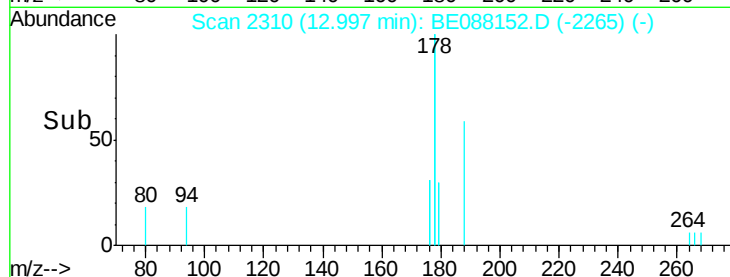
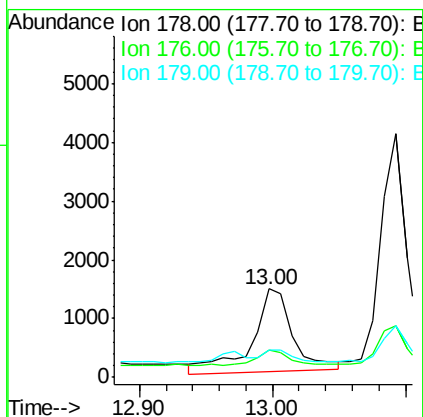
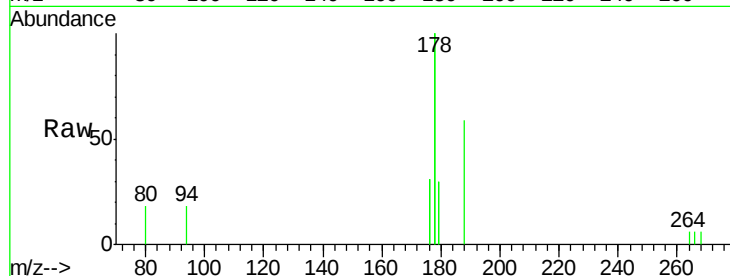




#13
Phenanthrene
Concen: Below Cal
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088152.D
Acq: 21 Oct 2014 20:46

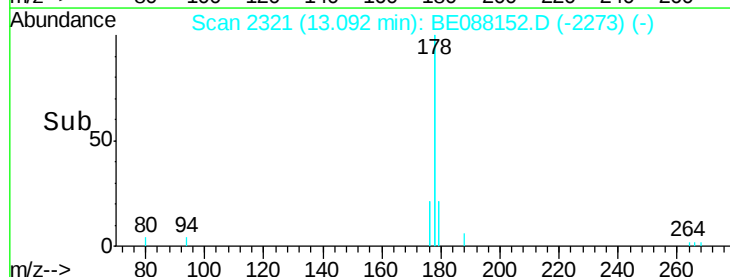
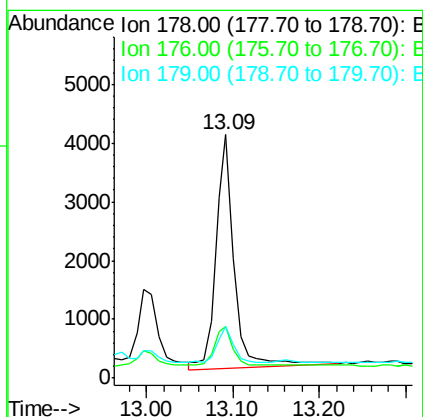
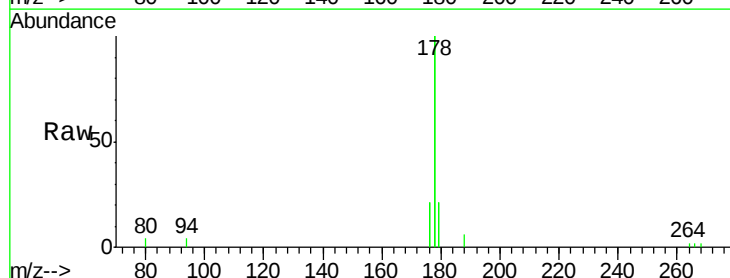
Instrument :
BNA_E
ClientSampleId :
YS19-SW10-1014

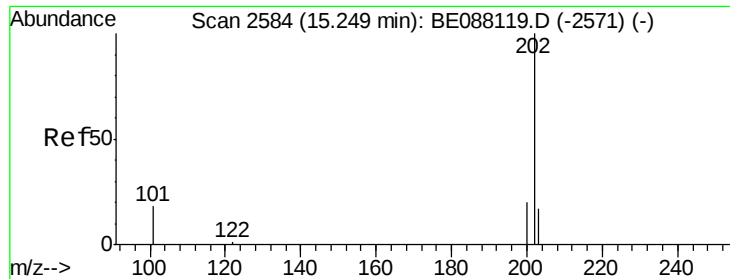
Tgt Ion:178 Resp: 3054
Ion Ratio Lower Upper
178 100
176 13.4 12.5 18.7
179 18.8 13.5 20.3



#14
Anthracene
Concen: 0.07 ng
RT: 13.09 min Scan# 2321
Delta R.T. -0.00 min
Lab File: BE088152.D
Acq: 21 Oct 2014 20:46

Tgt Ion:178 Resp: 5903
Ion Ratio Lower Upper
178 100
176 16.4 14.6 21.8
179 15.6 12.5 18.7





#15

Fluoranthene

Concen: 0.08 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

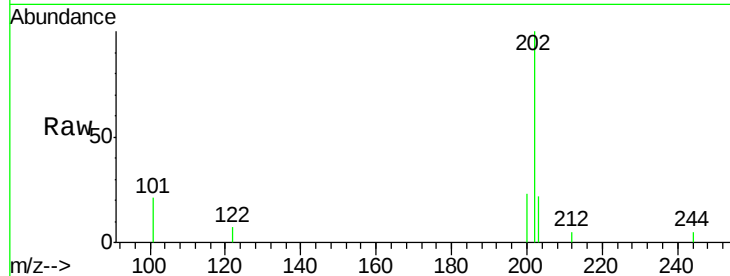
Tgt Ion:202 Resp: 1573

Ion Ratio Lower Upper

202 100

101 18.2 14.8 22.2

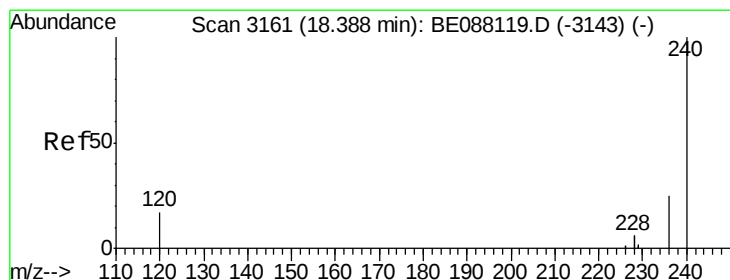
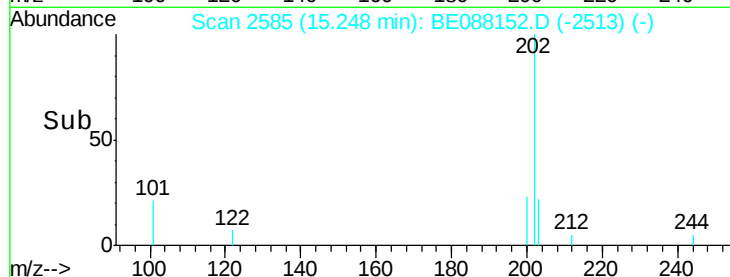
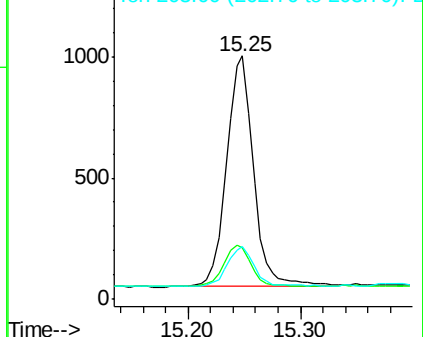
203 16.8 13.5 20.3



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. -0.01 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

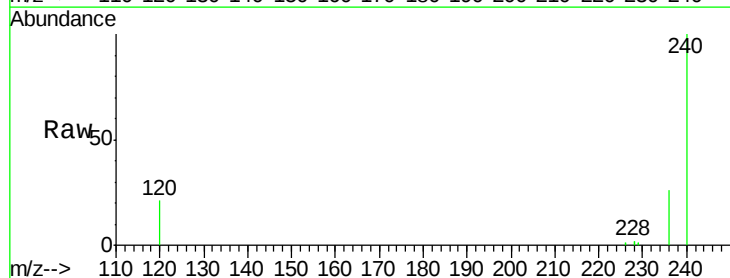
Tgt Ion:240 Resp: 65691

Ion Ratio Lower Upper

240 100

120 20.5 13.9 20.9

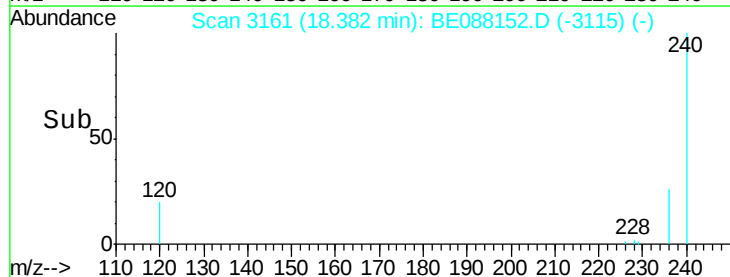
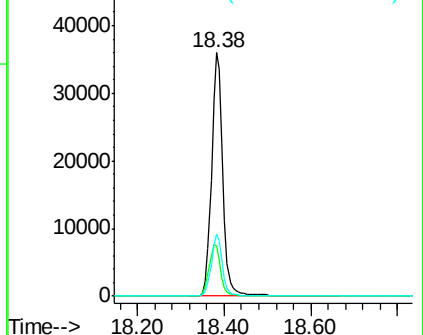
236 25.6 19.9 29.9

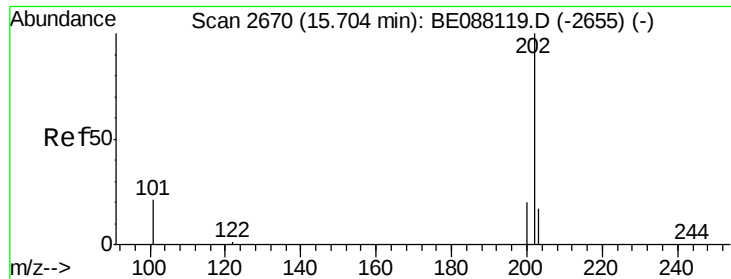


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

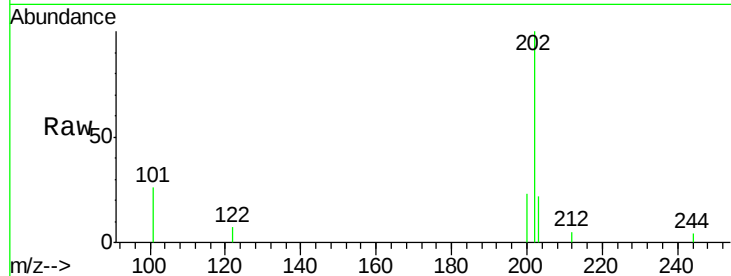




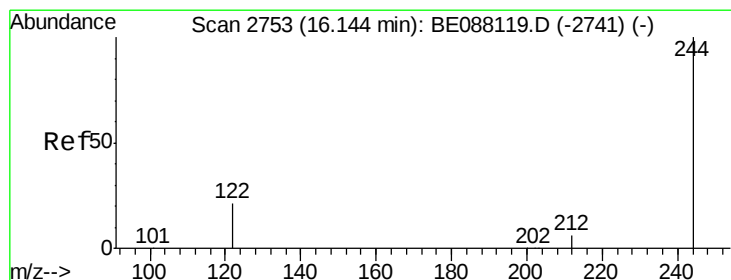
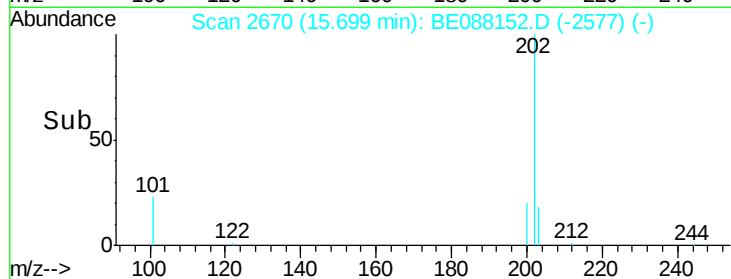
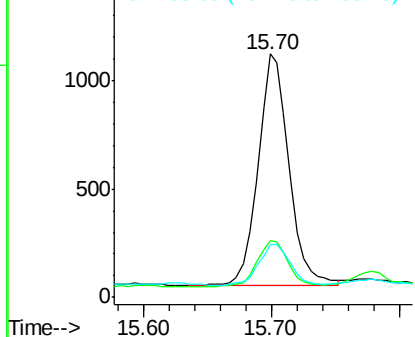
#17
 Pyrene
 Concen: 0.10 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.01 min
 Lab File: BE088152.D
 Acq: 21 Oct 2014 20:46

Instrument :
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 YS19-SW10-1014

Tgt Ion:	202	Resp:	1788
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.1	24.1
203	17.7	13.9	20.9

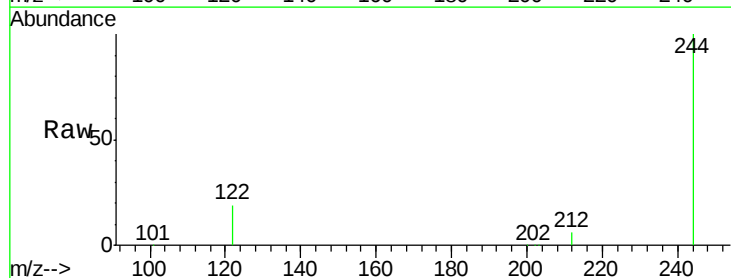


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

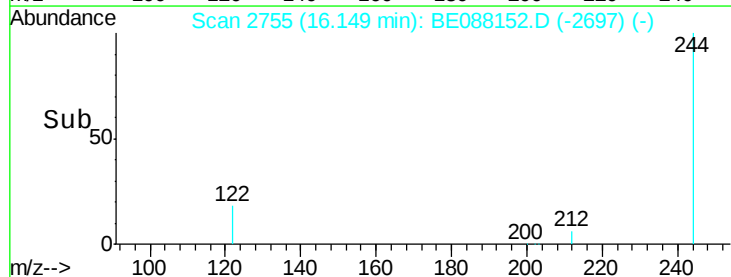
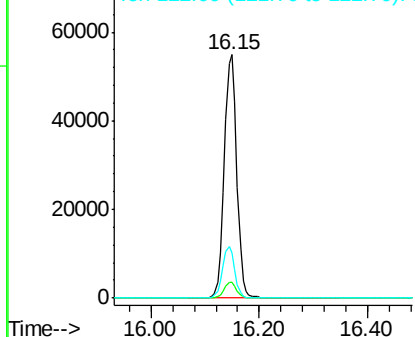


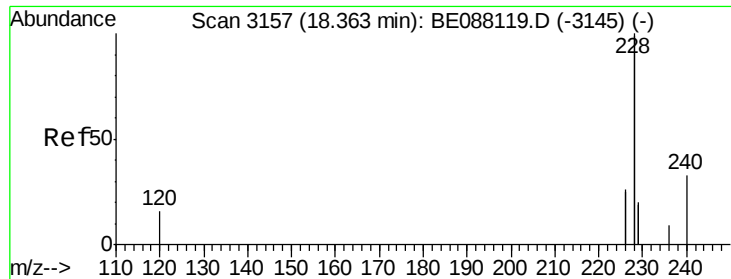
#18
 Terphenyl-d14
 Concen: 8.28 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.01 min
 Lab File: BE088152.D
 Acq: 21 Oct 2014 20:46

Tgt Ion:	244	Resp:	87487
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	18.5	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: 0.09 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

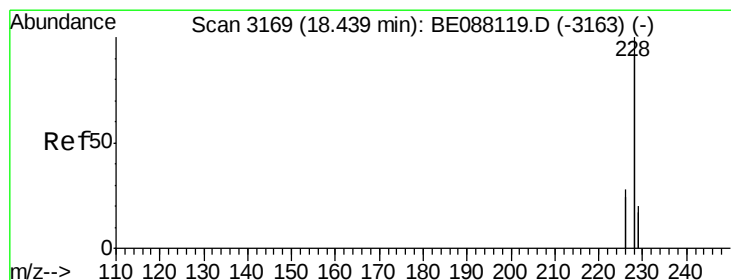
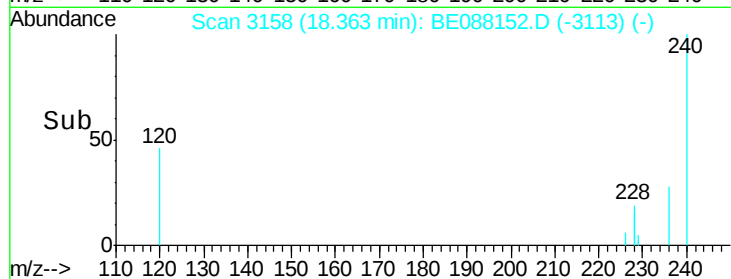
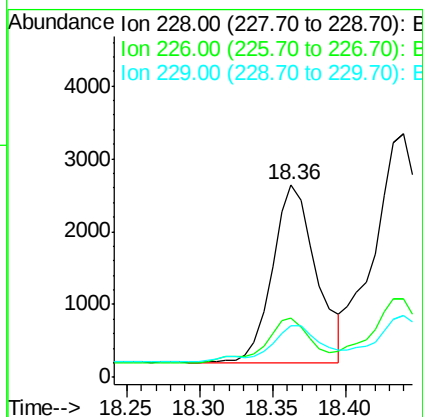
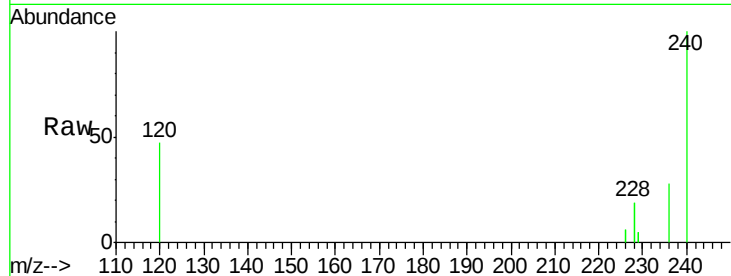
Tgt Ion:228 Resp: 5072

Ion Ratio Lower Upper

228 100

226 30.9 20.8 31.2

229 26.6 15.6 23.4#



#20

Chrysene

Concen: 0.14 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

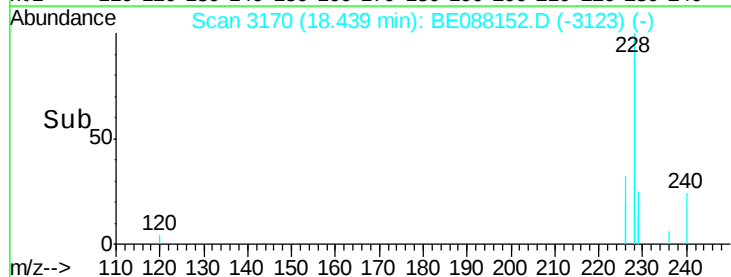
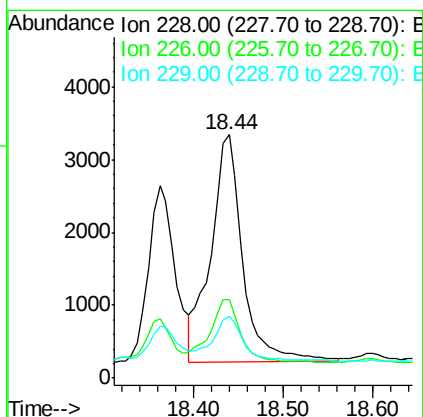
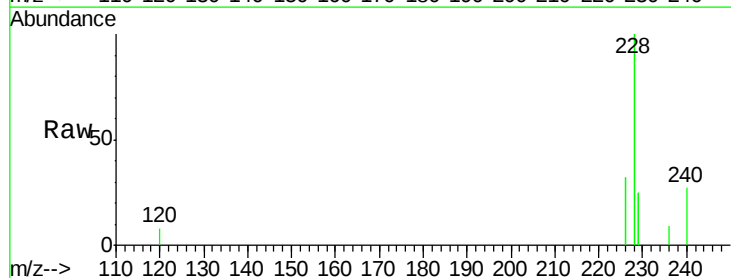
Tgt Ion:228 Resp: 7765

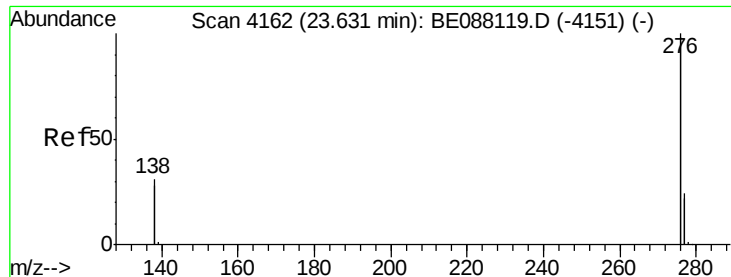
Ion Ratio Lower Upper

228 100

226 32.4 22.7 34.1

229 25.3 15.8 23.6#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

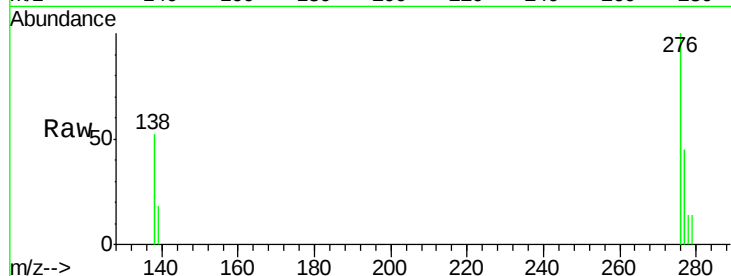
Tgt Ion:276 Resp: 2790

Ion Ratio Lower Upper

276 100

138 22.1 18.5 27.7

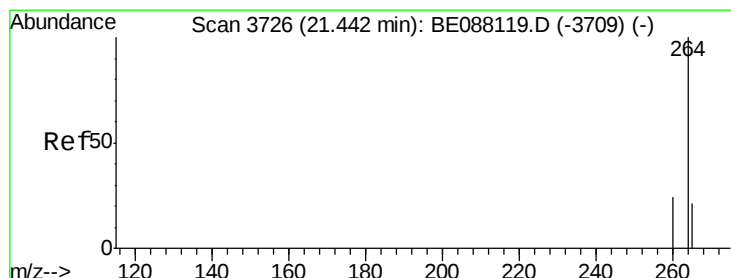
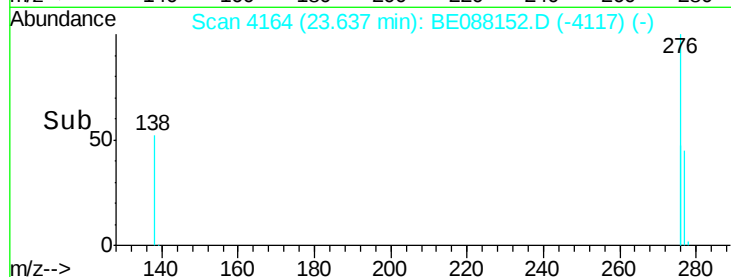
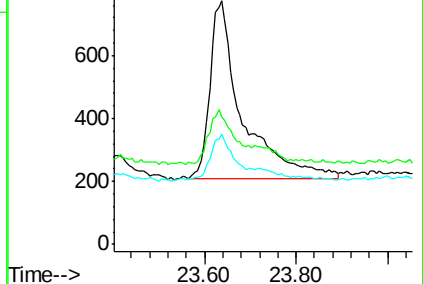
277 19.2 14.6 21.8



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: BE088152.D

Acq: 21 Oct 2014 20:46

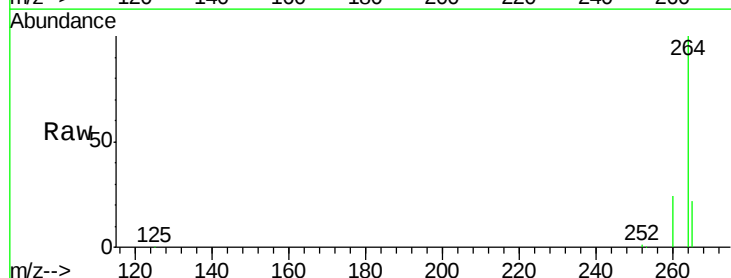
Tgt Ion:264 Resp: 52313

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

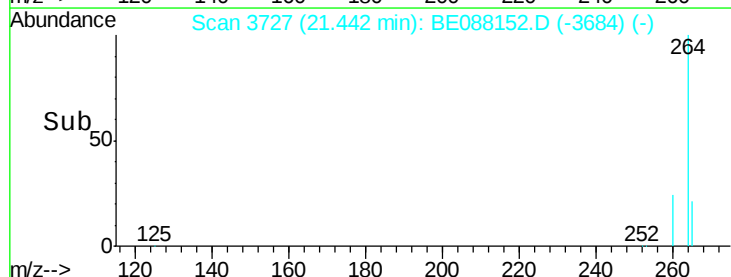
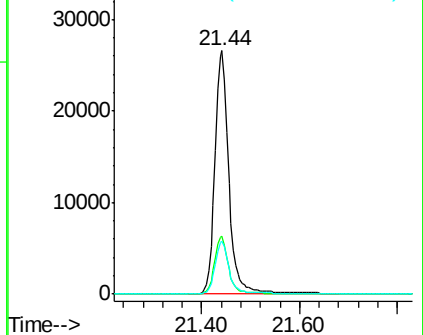
265 21.7 17.2 25.8

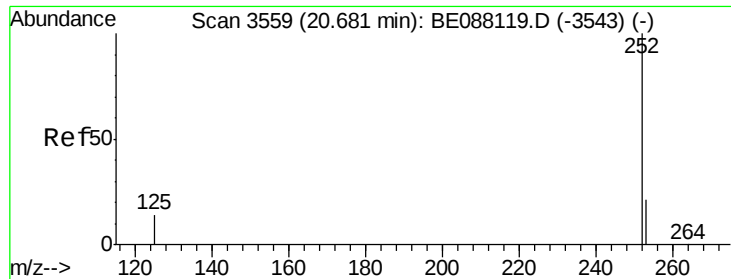


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.14 ng

RT: 20.68 min Scan# 3560

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

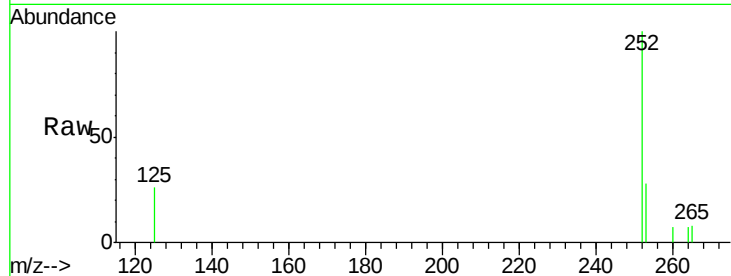
Tgt Ion:252 Resp: 1748

Ion Ratio Lower Upper

252 100

253 28.0 17.4 26.0#

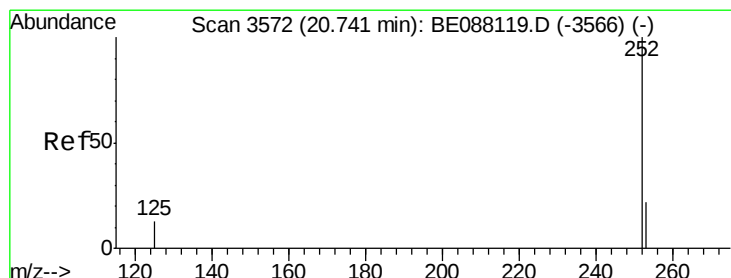
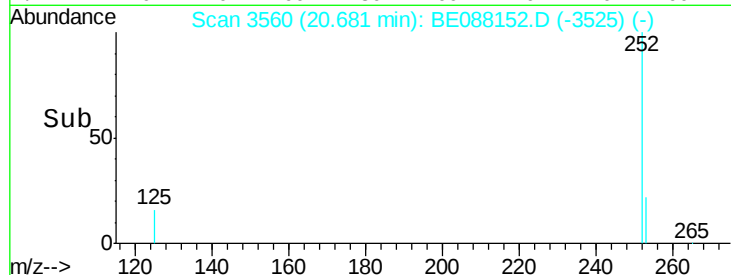
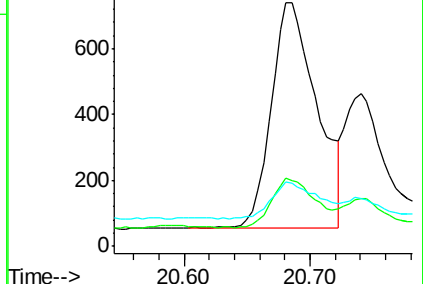
125 26.3 11.8 17.8#



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: 0.07 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

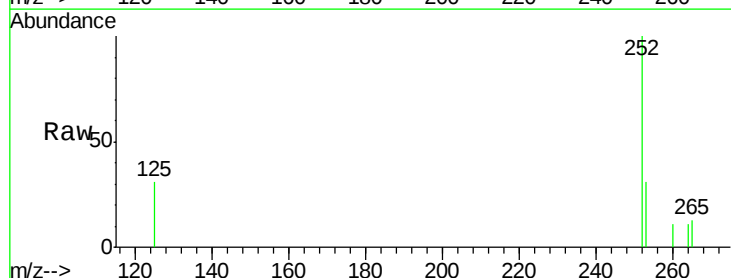
Tgt Ion:252 Resp: 994

Ion Ratio Lower Upper

252 100

253 31.5 17.6 26.4#

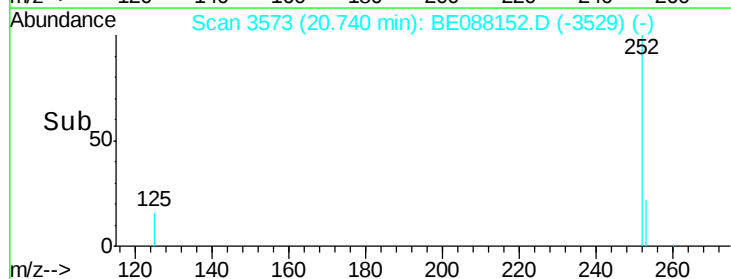
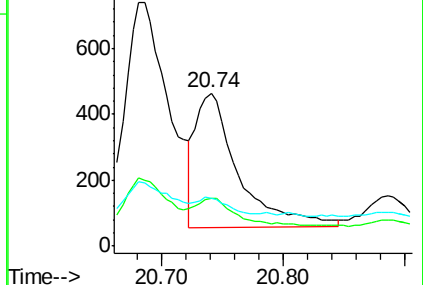
125 31.5 11.5 17.3#

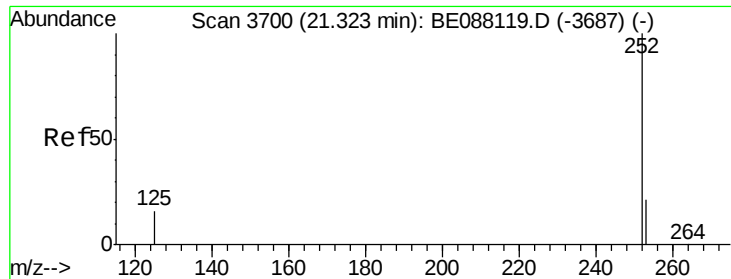


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.05 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014

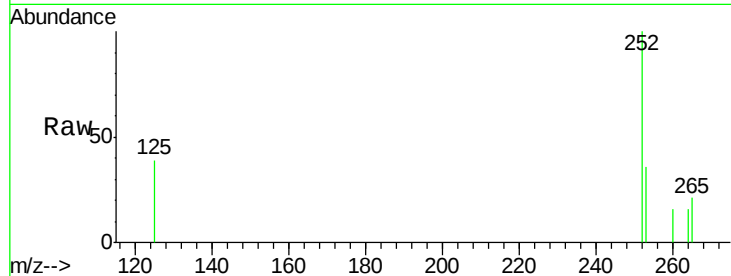
Tgt Ion: 252 Resp: 611

Ion Ratio Lower Upper

252 100

253 36.2 17.5 26.3#

125 39.2 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

Time-->

21.32

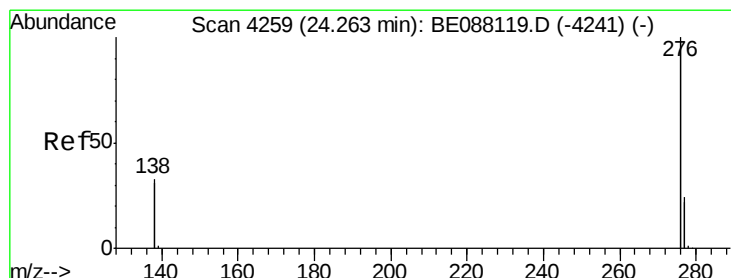
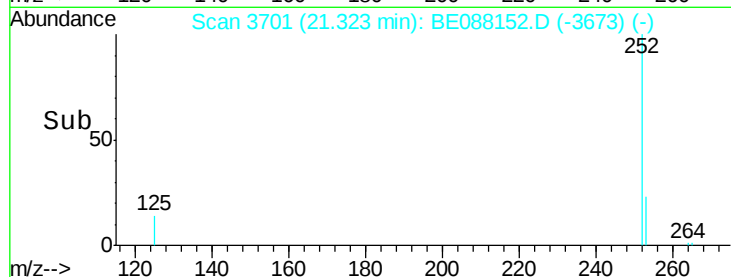
300

200

100

0

21.25 21.30 21.35 21.40



#27

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088152.D

Acq: 21 Oct 2014 20:46

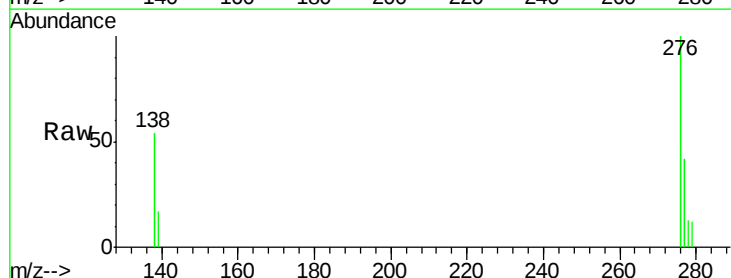
Tgt Ion: 276 Resp: 2670

Ion Ratio Lower Upper

276 100

277 41.6 19.2 28.8#

138 54.1 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

Time-->

24.26

1000

800

600

400

200

0

24.20 24.40

