

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088151.D
 Acq On : 21 Oct 2014 20:14
 Operator : TP/JJ
 Sample : F4351-10
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW08P-1014

Quant Time: Oct 22 04:38:45 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	23816	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	92228	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	43844	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	81914	5.00	ng	0.00
16) Chrysene-d12	18.38	240	51139	5.00	ng	0.00
22) Perylene-d12	21.44	264	40339	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.83	82	46131	6.94	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	83560	6.90	ng	0.00
18) Terphenyl-d14	16.15	244	81213	9.87	ng	0.00

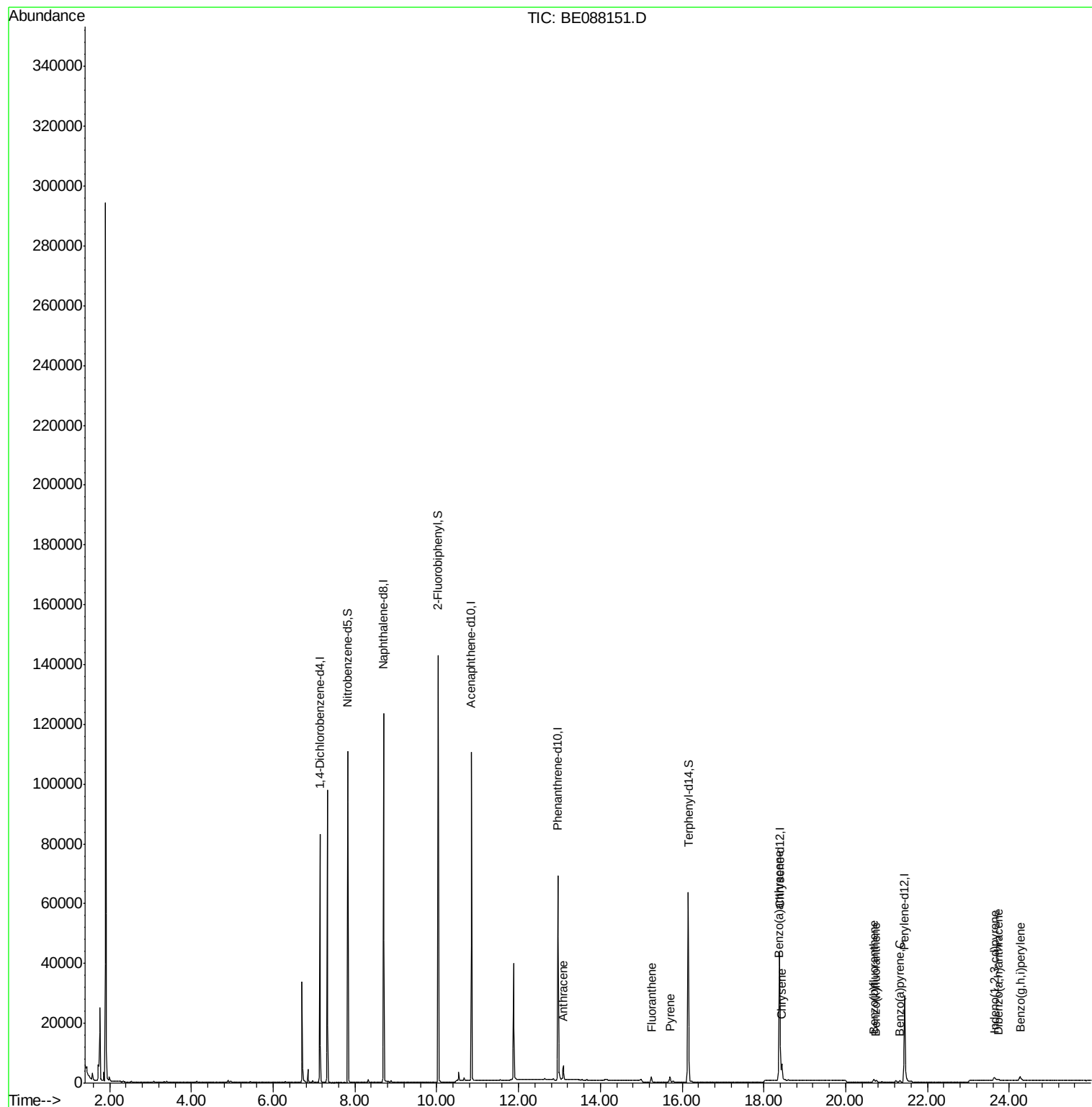
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Phenanthrene	13.00	178	5929	Below Cal	#	92
14) Anthracene	13.09	178	5301	0.08	ng	96
15) Fluoranthene	15.25	202	1860	0.12	ng	100
17) Pyrene	15.70	202	2002	0.14	ng	99
19) Benzo(a)anthracene	18.36	228	5449	0.12	ng	# 90
20) Chrysene	18.44	228	8166	0.18	ng	# 91
21) Indeno(1,2,3-cd)pyrene	23.63	276	3198	0.06	ng	98
23) Benzo(b)fluoranthene	20.69	252	1737	0.18	ng	# 82
24) Benzo(k)fluoranthene	20.74	252	1076	0.10	ng	# 74
25) Benzo(a)pyrene	21.32	252	718	0.08	ng	# 62
26) Dibenzo(a,h)anthracene	23.74	278	238	0.03	ng	# 17
27) Benzo(g,h,i)perylene	24.26	276	3135	0.08	ng	# 68

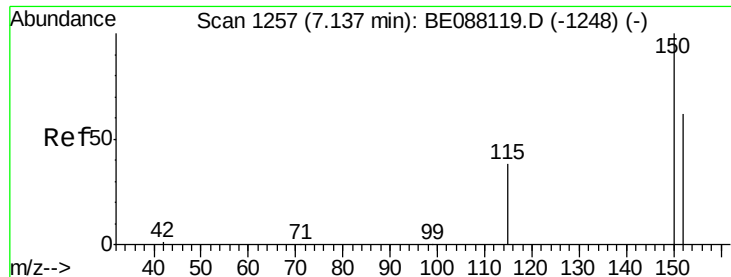
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

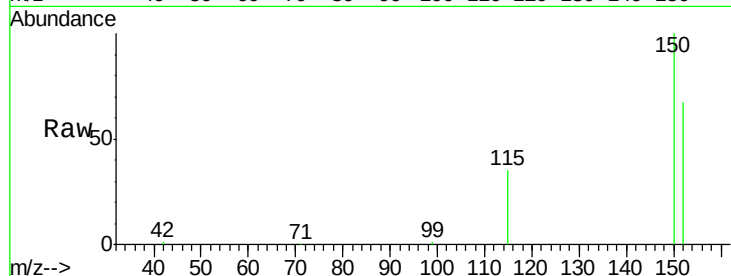
Tgt Ion:152 Resp: 23816

Ion Ratio Lower Upper

152 100

150 148.2 129.2 193.8

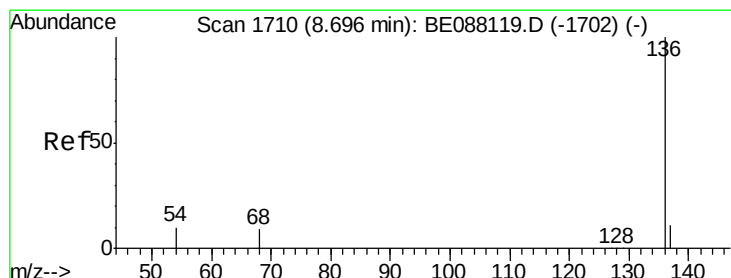
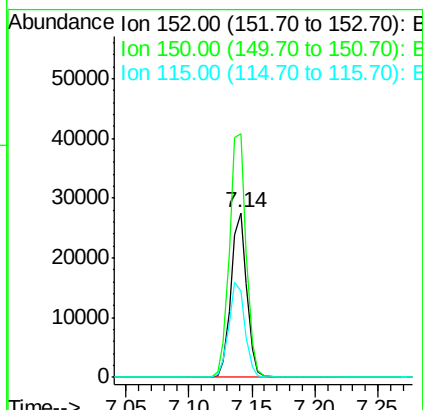
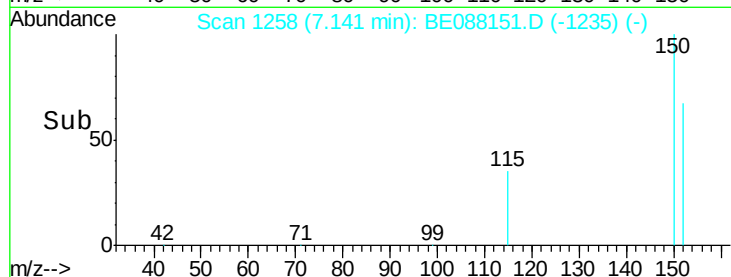
115 52.6 49.3 73.9



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. 0.01 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

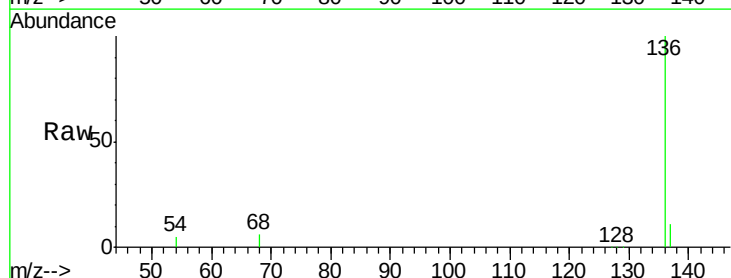
Tgt Ion:136 Resp: 92228

Ion Ratio Lower Upper

136 100

137 11.2 8.6 12.8

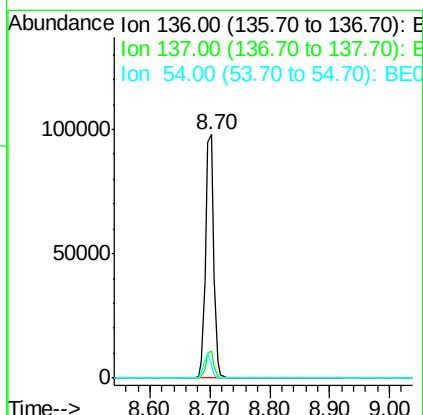
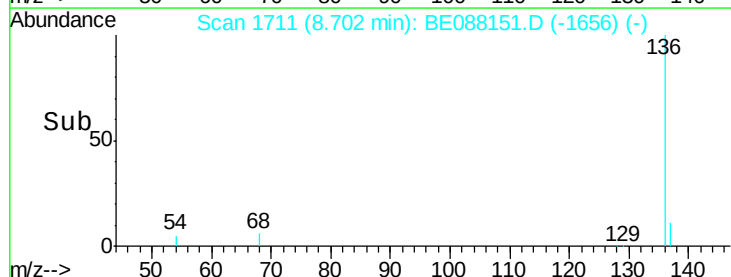
54 5.5 7.7 11.5#

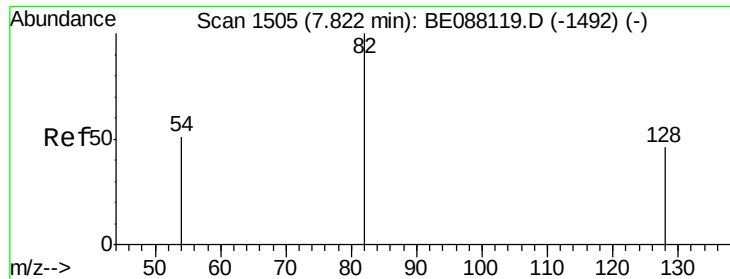


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 6.94 ng

RT: 7.83 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

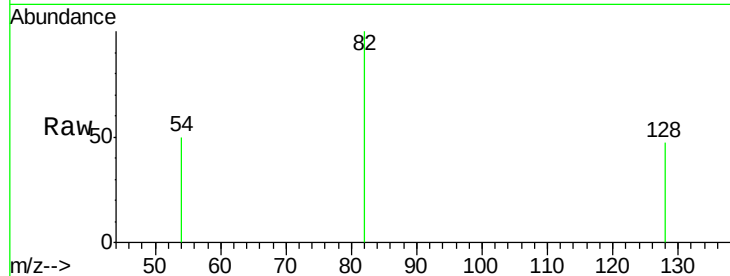
Tgt Ion: 82 Resp: 46131

Ion Ratio Lower Upper

82 100

128 47.1 37.1 55.7

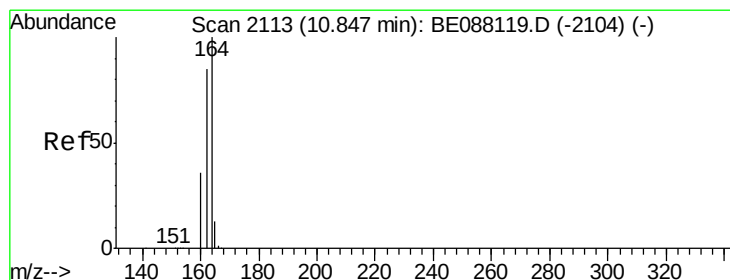
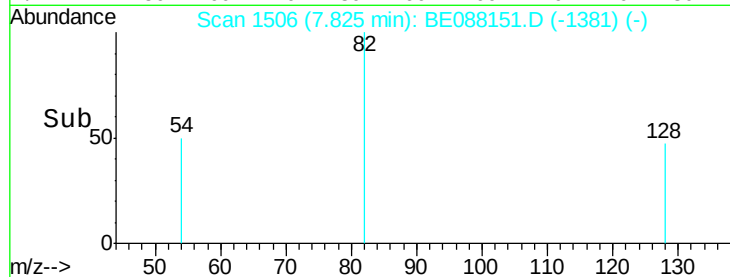
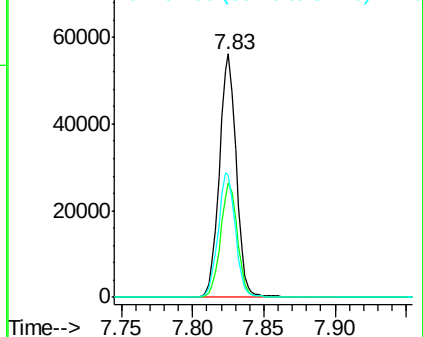
54 50.4 41.1 61.7



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# 2113

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

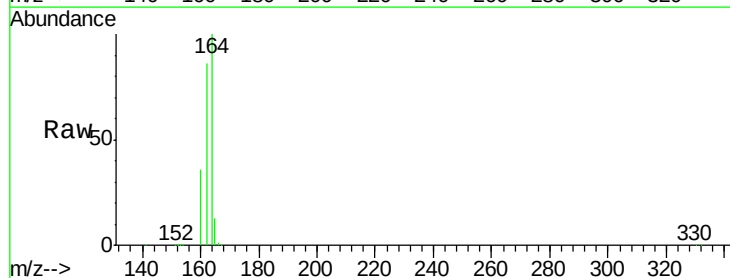
Tgt Ion: 164 Resp: 43844

Ion Ratio Lower Upper

164 100

162 86.4 68.3 102.5

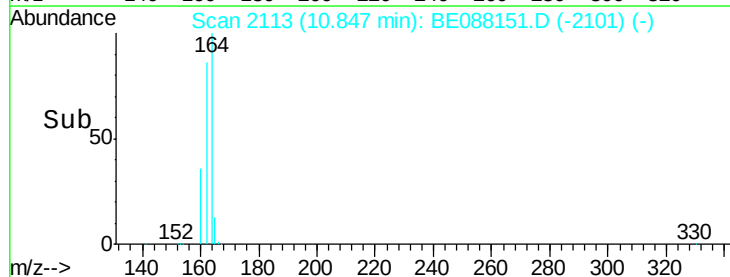
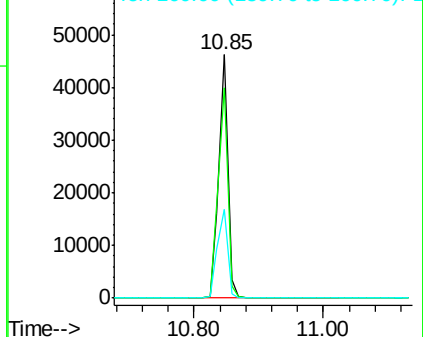
160 36.5 28.7 43.1

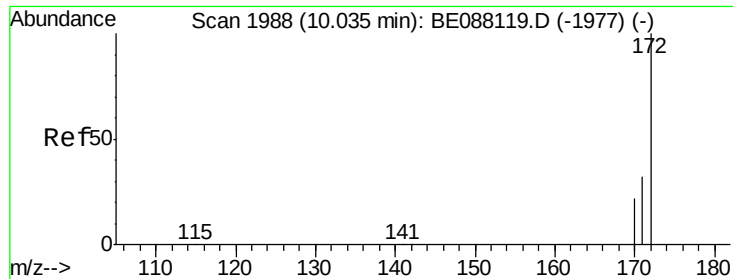


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 6.90 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

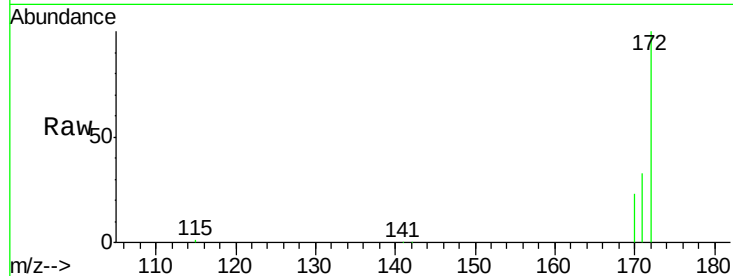
Tgt Ion:172 Resp: 83560

Ion Ratio Lower Upper

172 100

171 33.2 25.4 38.2

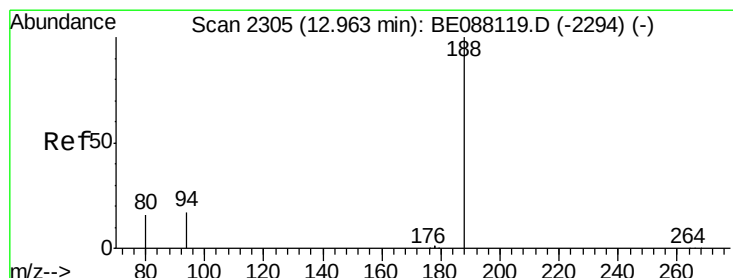
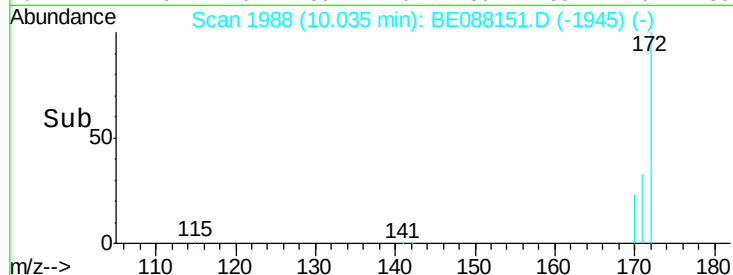
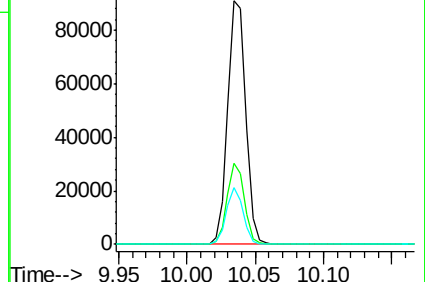
170 23.4 17.4 26.2



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

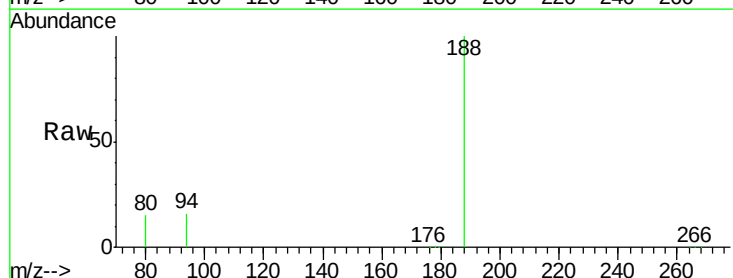
Tgt Ion:188 Resp: 81914

Ion Ratio Lower Upper

188 100

94 16.5 13.9 20.9

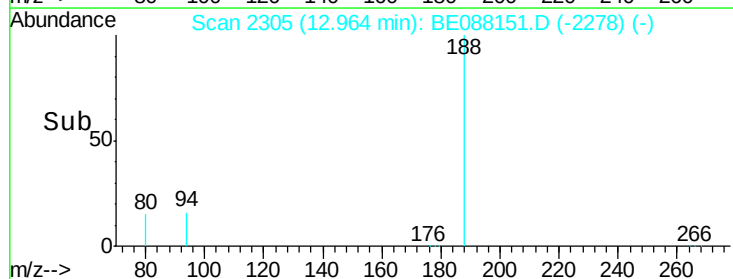
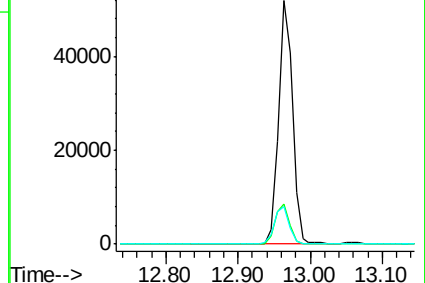
80 15.4 12.9 19.3

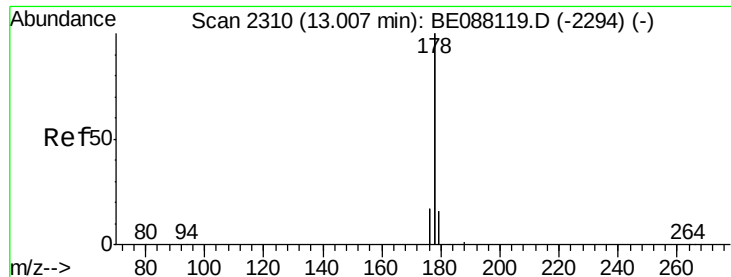


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: Below Cal

RT: 13.00 min Scan# 2309

Delta R.T. -0.01 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

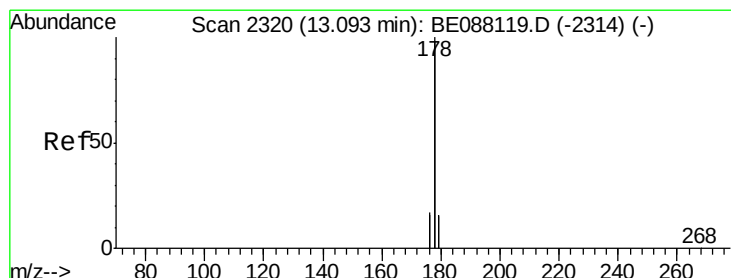
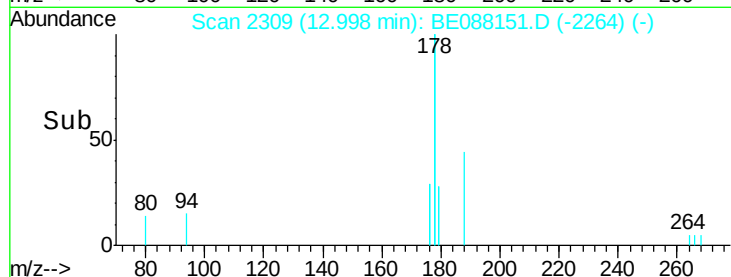
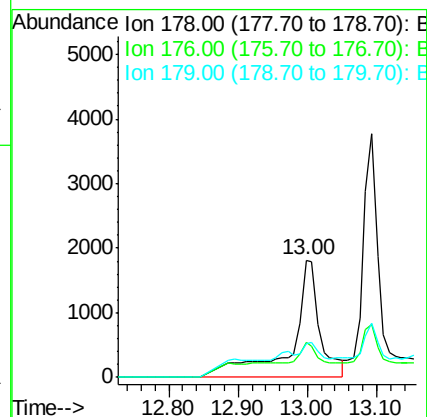
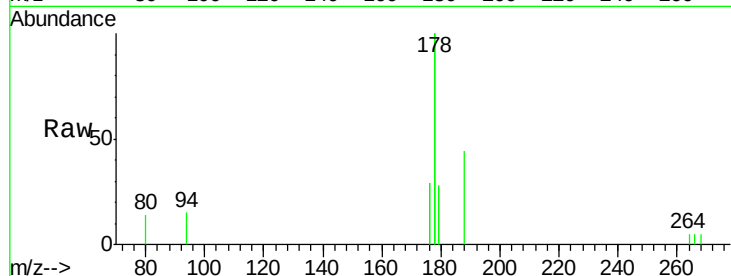
Tgt Ion:178 Resp: 5929

Ion Ratio Lower Upper

178 100

176 18.8 12.5 18.7#

179 13.4 13.5 20.3#



#14

Anthracene

Concen: 0.08 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

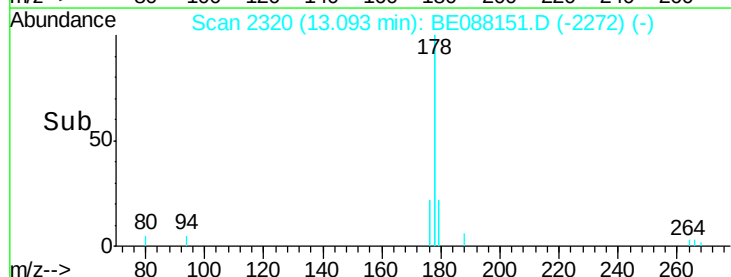
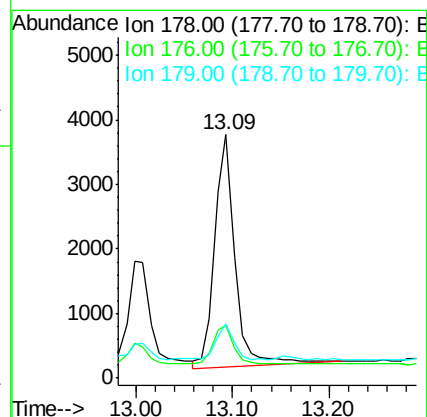
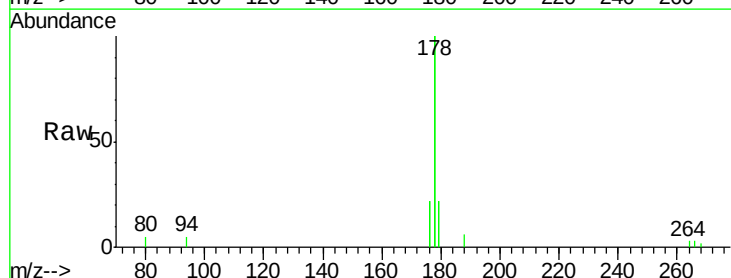
Tgt Ion:178 Resp: 5301

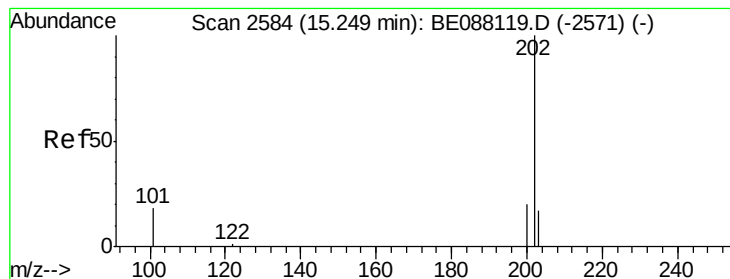
Ion Ratio Lower Upper

178 100

176 20.5 14.6 21.8

179 16.8 12.5 18.7





#15

Fluoranthene

Concen: 0.12 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

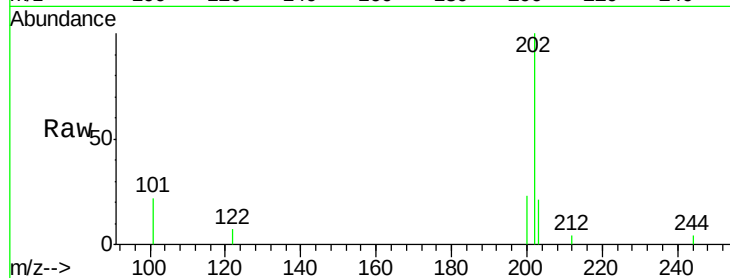
Tgt Ion:202 Resp: 1860

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

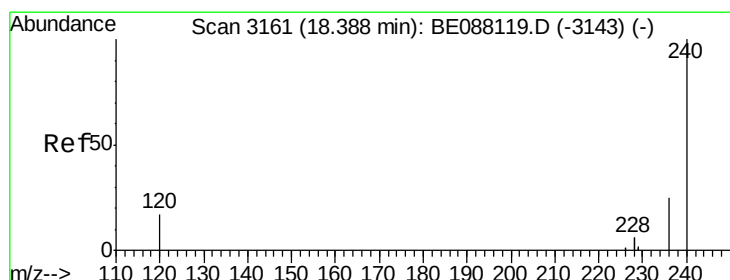
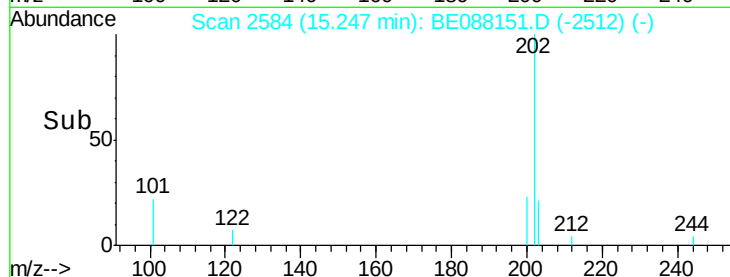
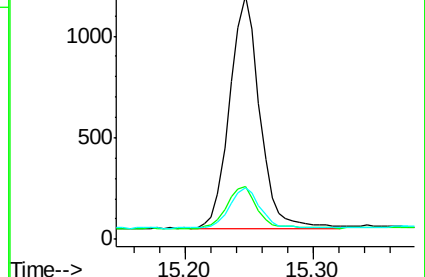
203 16.9 13.5 20.3



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# 3160

Delta R.T. -0.01 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

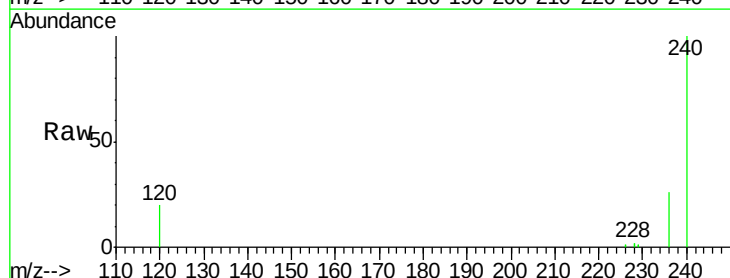
Tgt Ion:240 Resp: 51139

Ion Ratio Lower Upper

240 100

120 19.9 13.9 20.9

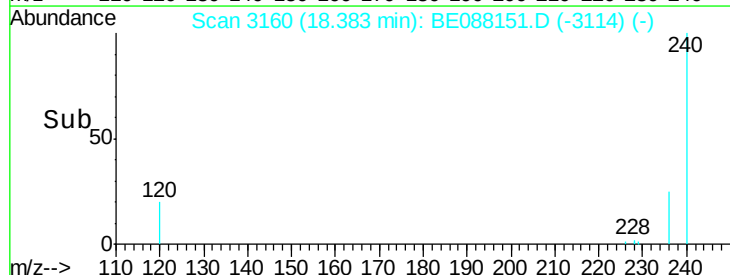
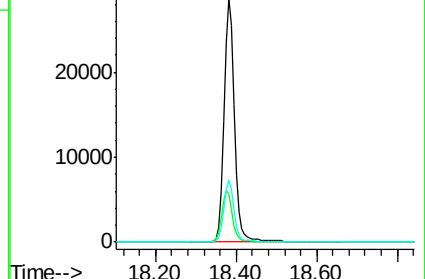
236 25.5 19.9 29.9

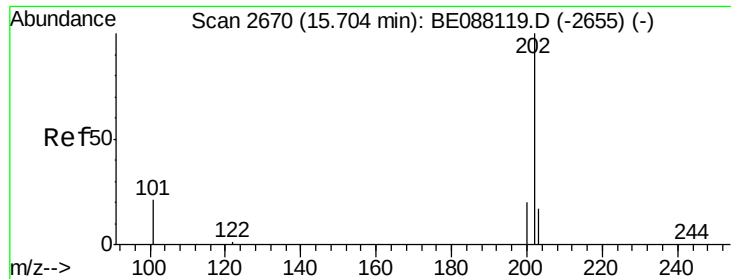


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

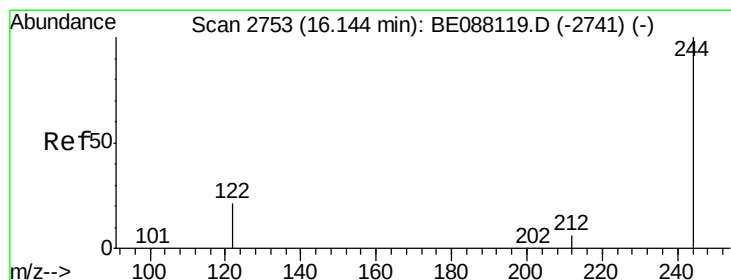
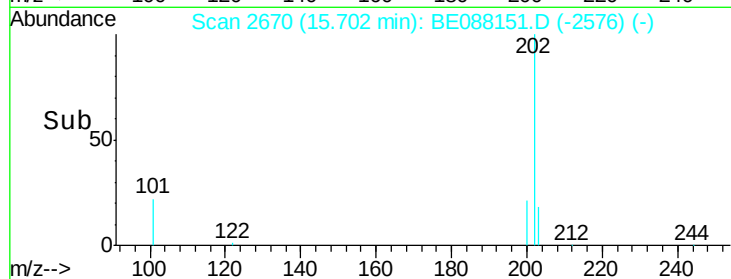
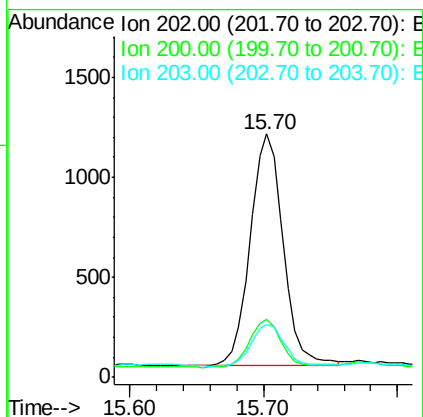
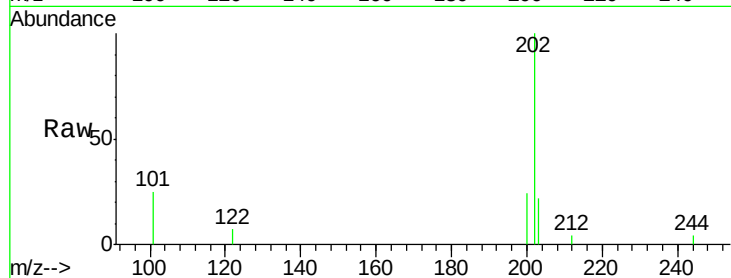




#17
 Pyrene
 Concen: 0.14 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088151.D
 Acq: 21 Oct 2014 20:14

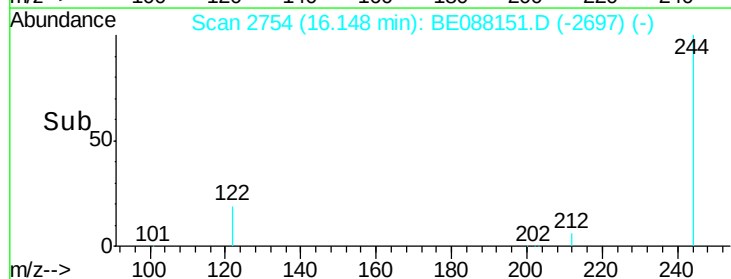
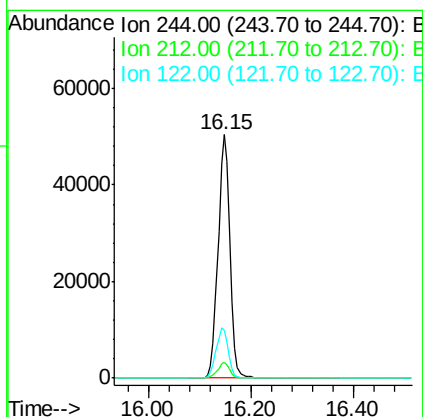
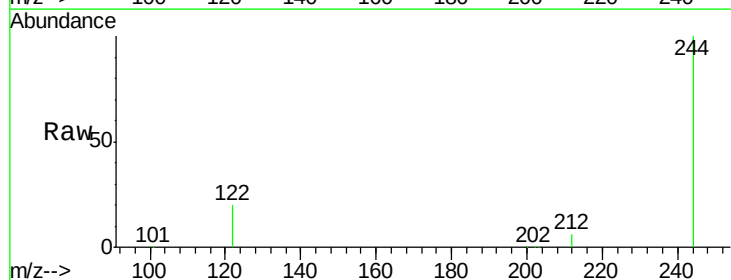
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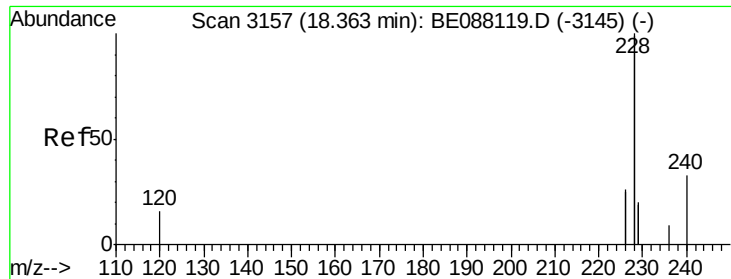
Tgt Ion:	202	Resp:	2002
Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	18.2	13.9	20.9



#18
 Terphenyl-d14
 Concen: 9.87 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088151.D
 Acq: 21 Oct 2014 20:14

Tgt Ion:	244	Resp:	81213
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	19.6	17.5	26.3





#19

Benzo(a)anthracene

Concen: 0.12 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

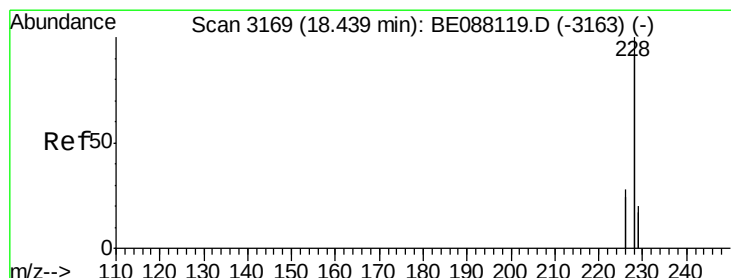
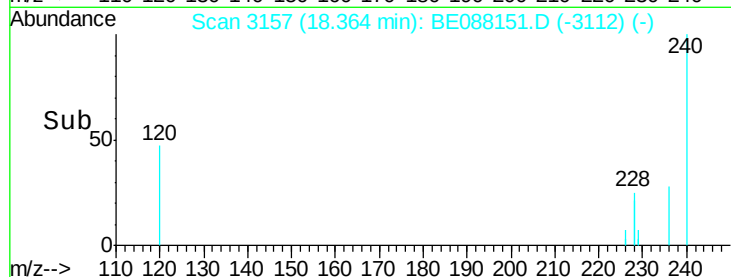
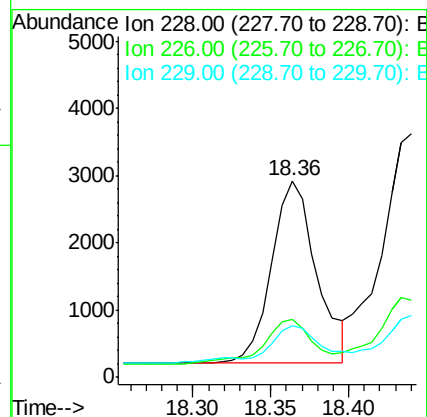
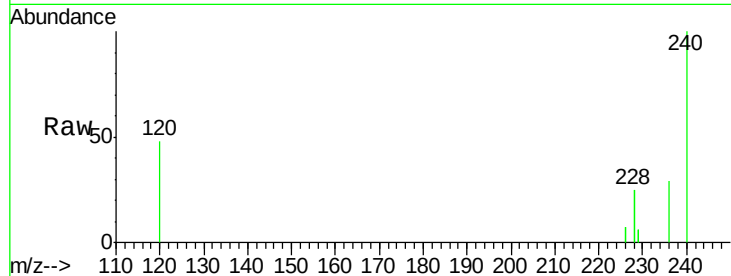
Tgt Ion:228 Resp: 5449

Ion Ratio Lower Upper

228 100

226 29.6 20.8 31.2

229 26.0 15.6 23.4#



#20

Chrysene

Concen: 0.18 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

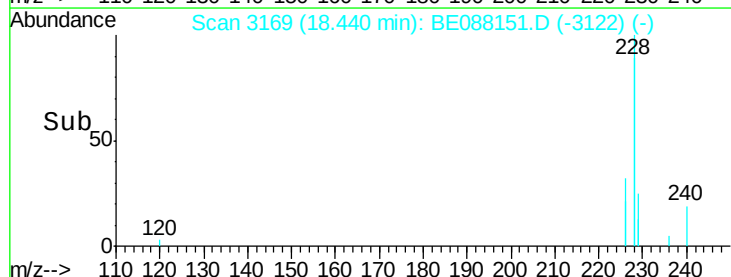
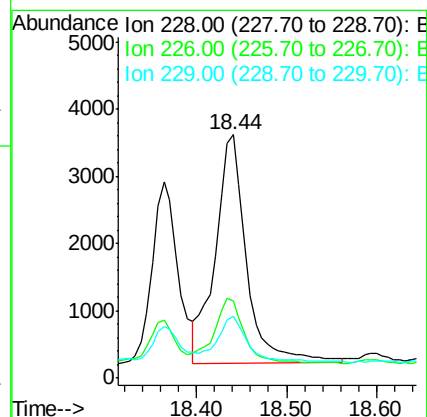
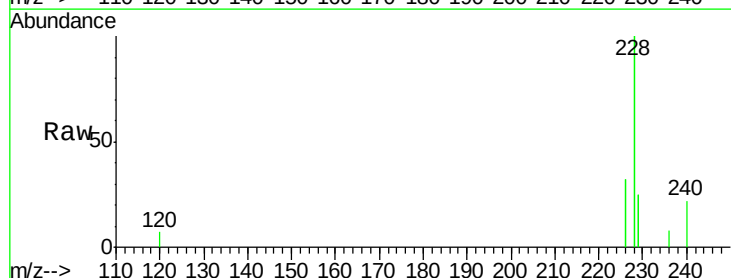
Tgt Ion:228 Resp: 8166

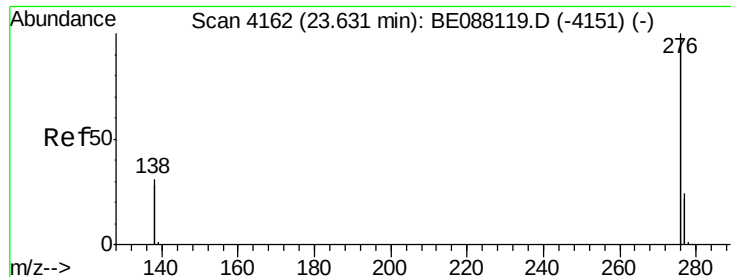
Ion Ratio Lower Upper

228 100

226 31.8 22.7 34.1

229 25.2 15.8 23.6#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 23.63 min Scan# 4162

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

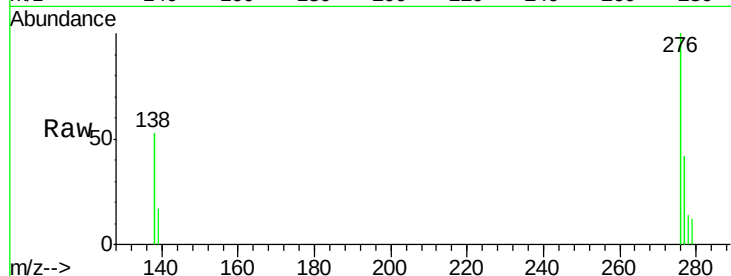
Tgt Ion:276 Resp: 3198

Ion Ratio Lower Upper

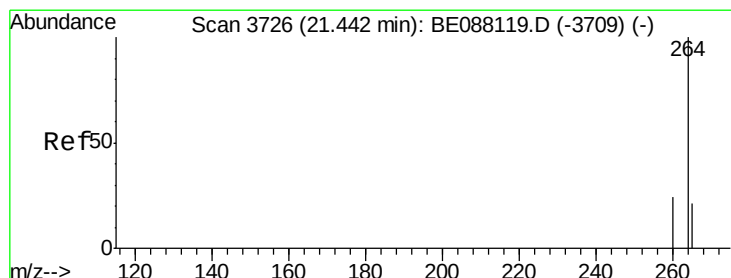
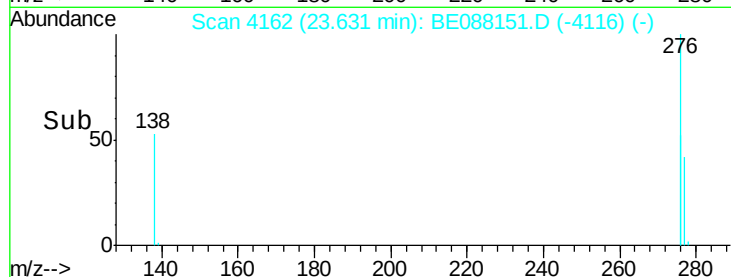
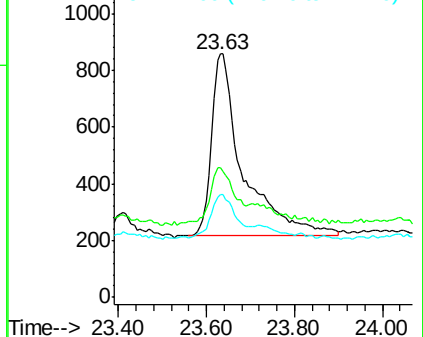
276 100

138 24.4 18.5 27.7

277 19.1 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: BE088151.D

Acq: 21 Oct 2014 20:14

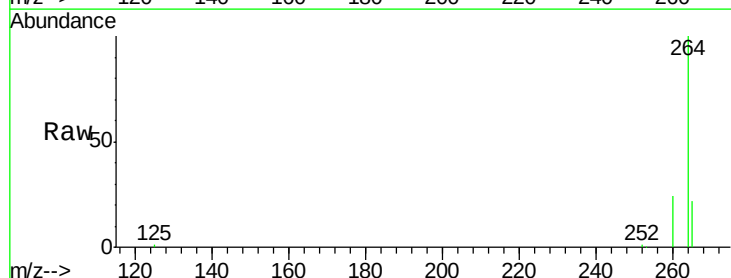
Tgt Ion:264 Resp: 40339

Ion Ratio Lower Upper

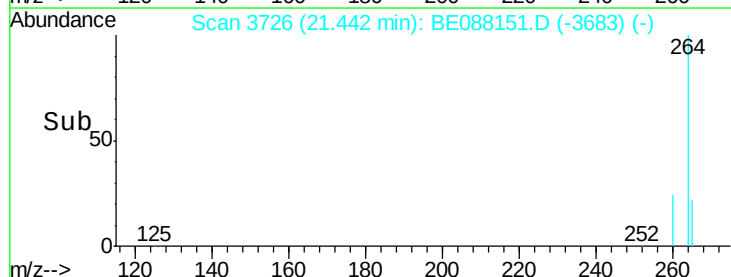
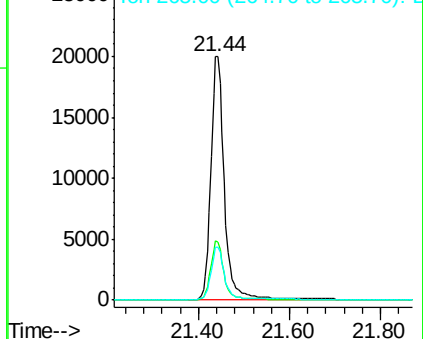
264 100

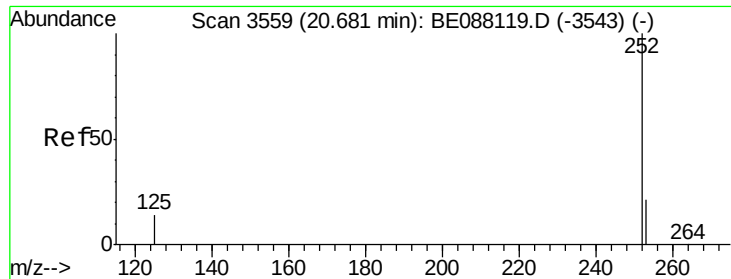
260 23.7 19.0 28.4

265 21.9 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: 0.18 ng

RT: 20.69 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014

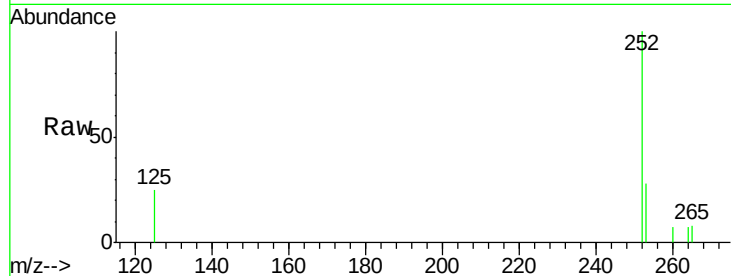
Tgt Ion:252 Resp: 1737

Ion Ratio Lower Upper

252 100

253 28.0 17.4 26.0#

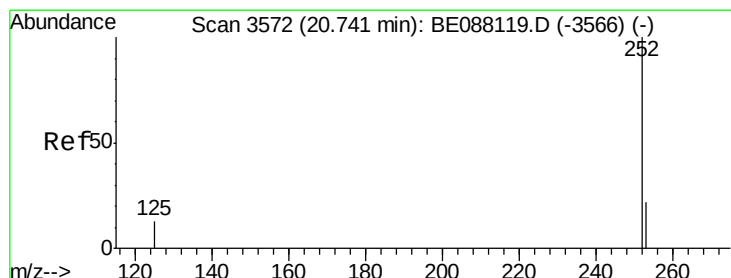
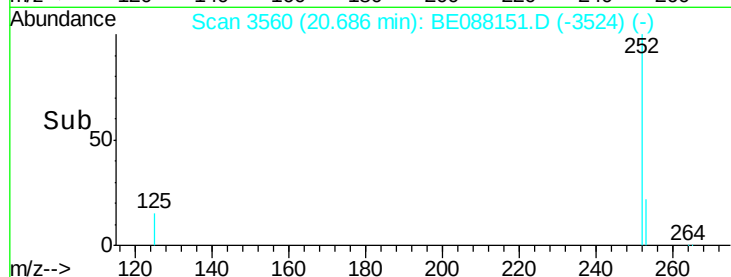
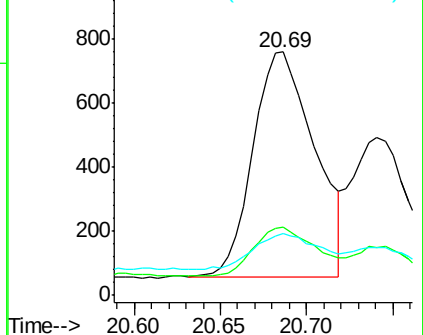
125 25.1 11.8 17.8#



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: 0.10 ng

RT: 20.74 min Scan# 3572

Delta R.T. 0.00 min

Lab File: BE088151.D

Acq: 21 Oct 2014 20:14

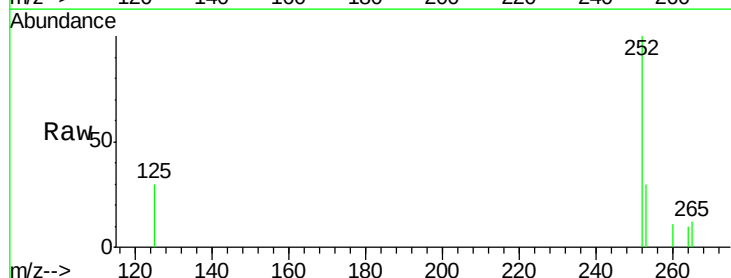
Tgt Ion:252 Resp: 1076

Ion Ratio Lower Upper

252 100

253 30.5 17.6 26.4#

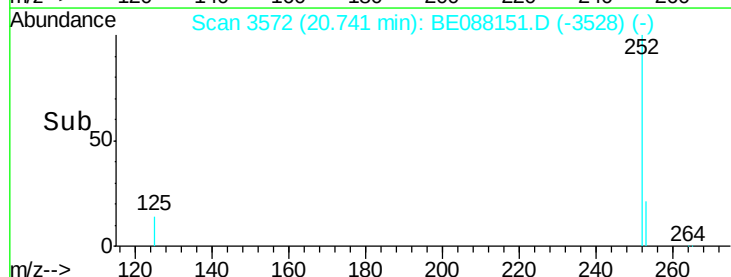
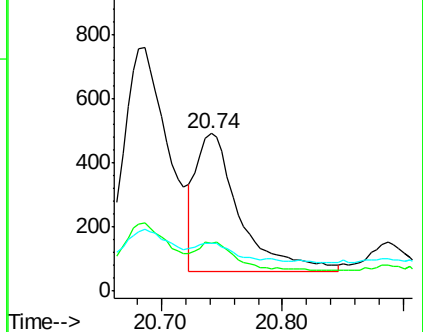
125 30.1 11.5 17.3#

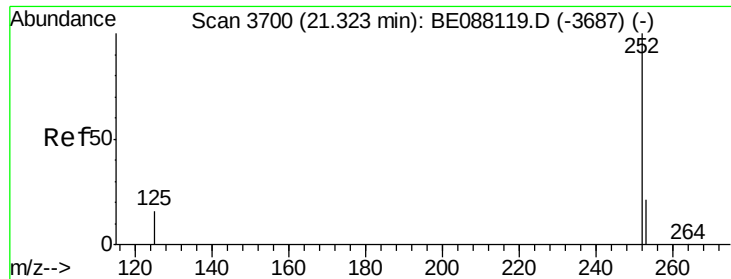


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

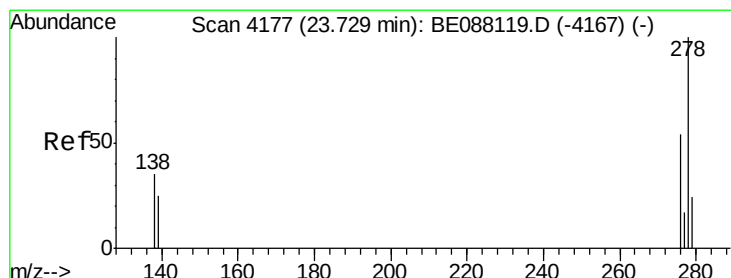
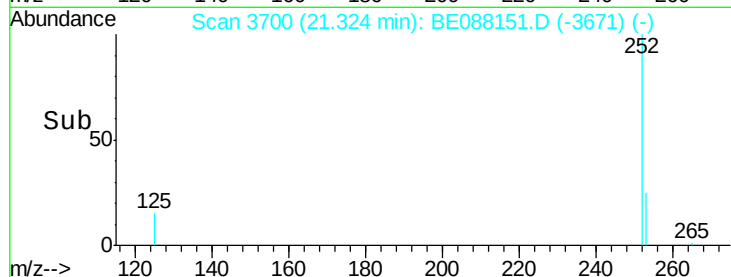
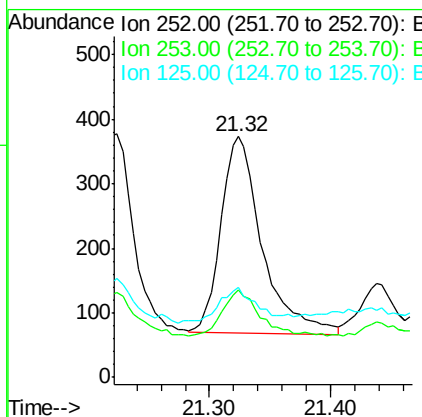
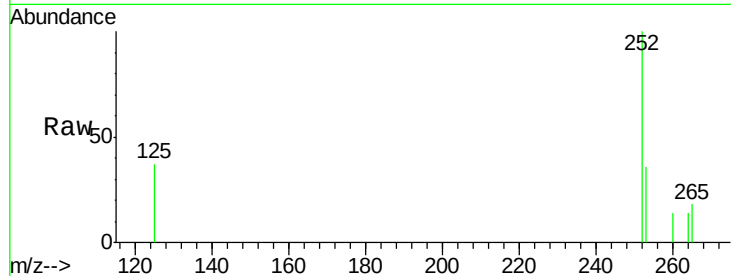




#25
Benzo(a)pyrene
Concen: 0.08 ng
RT: 21.32 min Scan# 3700
Delta R.T. 0.00 min
Lab File: BE088151.D
Acq: 21 Oct 2014 20:14

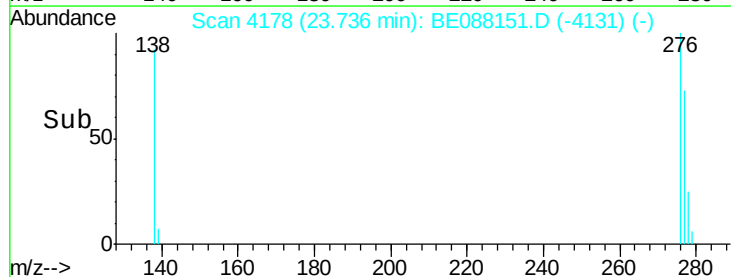
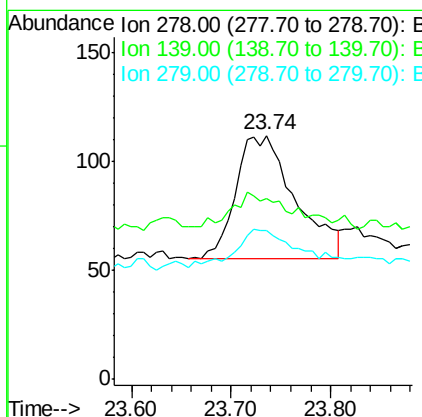
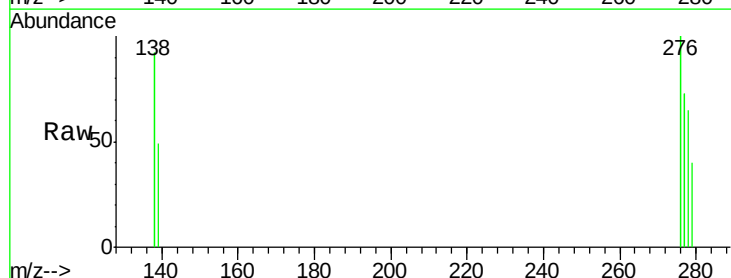
Instrument :
BNA_E
ClientSampleId :
YS19-SW08P-1014

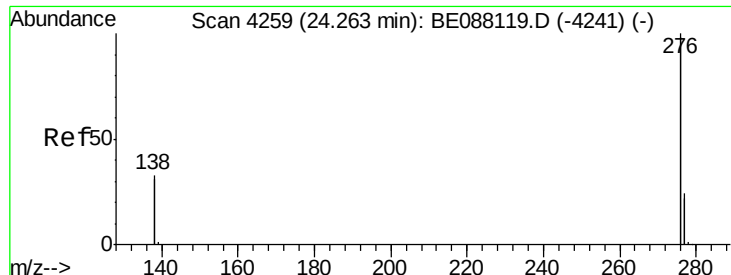
Tgt Ion: 252 Resp: 718
Ion Ratio Lower Upper
252 100
253 36.2 17.5 26.3#
125 37.3 13.0 19.6#



#26
Dibenzo(a,h)anthracene
Concen: 0.03 ng
RT: 23.74 min Scan# 4178
Delta R.T. 0.01 min
Lab File: BE088151.D
Acq: 21 Oct 2014 20:14

Tgt Ion: 278 Resp: 238
Ion Ratio Lower Upper
278 100
139 74.1 20.9 31.3#
279 60.7 19.8 29.8#





#27

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 24.26 min Scan# 4259

Delta R.T. 0.00 min

Lab File: BE088151.D

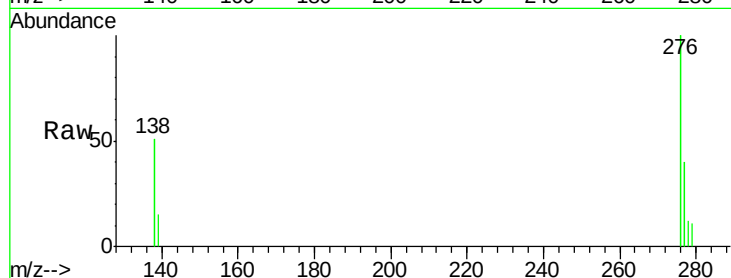
Acq: 21 Oct 2014 20:14

Instrument :

BNA_E

ClientSampleId :

YS19-SW08P-1014



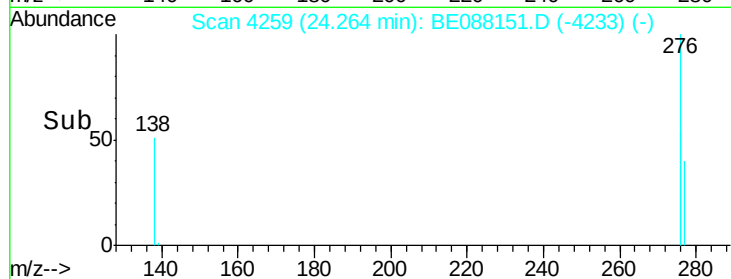
Tgt Ion: 276 Resp: 3135

Ion Ratio Lower Upper

276 100

277 40.5 19.2 28.8#

138 50.9 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

