

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092112.D
 Acq On : 2 Aug 2016 15:20
 Operator : UM/SJ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 02 15:57:13 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 13:43:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	10897	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	52180	5.00	ng	-0.01
10) Acenaphthene-d10	14.85	164	29861	5.00	ng	0.00
16) Phenanthrene-d10	17.56	188	62800	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	80391	5.00	ng	0.00
28) Perylene-d12	24.14	264	79139	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.70	112	14421	4.06	ng	0.00
5) Phenol-d6	7.34	99	20492	4.80	ng	-0.01
7) Nitrobenzene-d5	9.34	82	20402	4.56	ng	-0.01
11) 2,4,6-Tribromophenol	16.33	330	6005	2.77	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	46963	4.06	ng	0.00
24) Terphenyl-d14	20.19	244	62046	5.08	ng	-0.02

Target Compounds

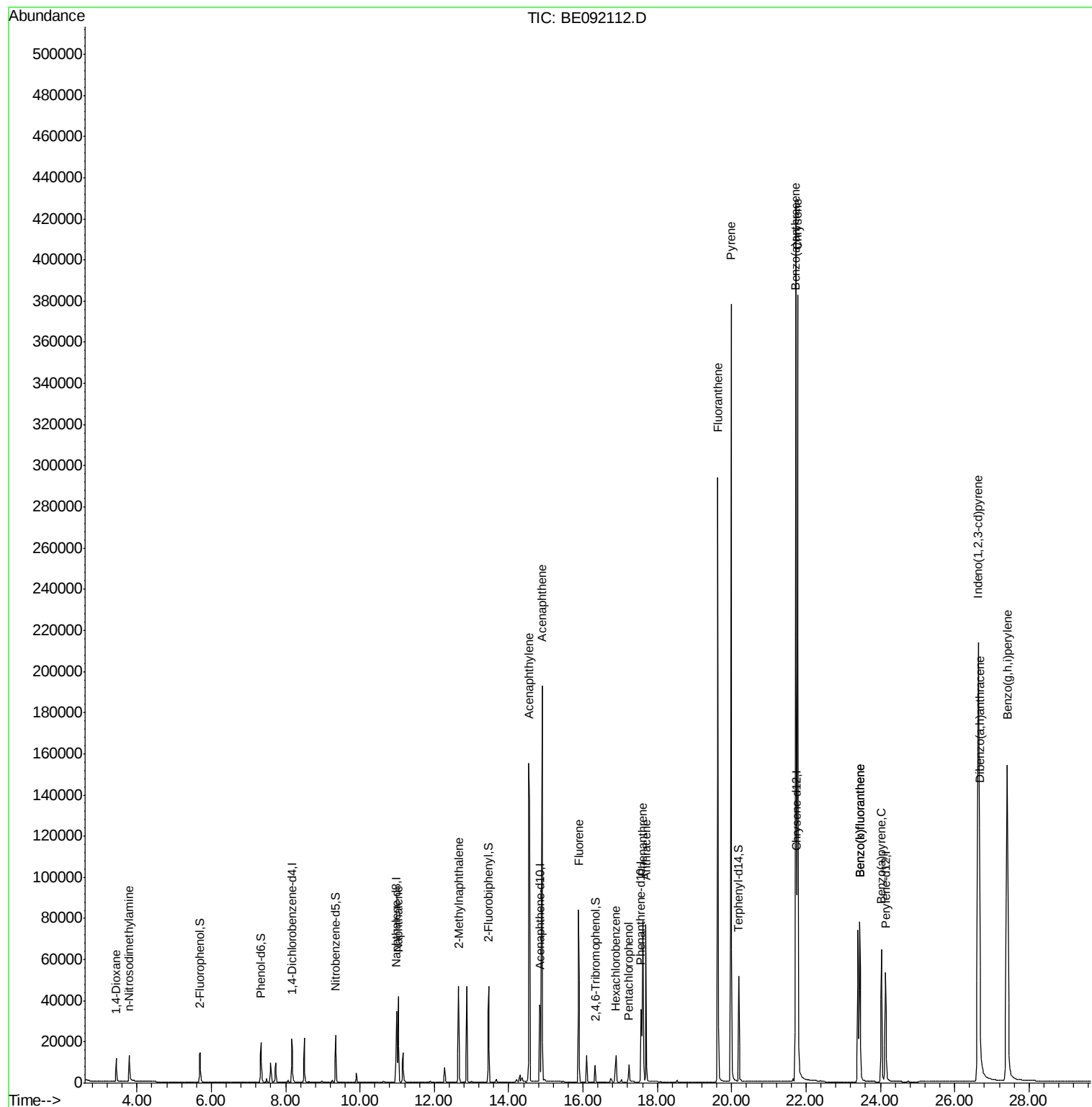
						Qvalue
2) 1,4-Dioxane	3.43	88	6788	4.31	ng	92
3) n-Nitrosodimethylamine	3.78	42	10419	5.21	ng	# 98
8) Naphthalene	11.03	128	57459	4.78	ng	95
9) 2-Methylnaphthalene	12.65	142	38082	4.73	ng	97
13) Acenaphthylene	14.54	152	270632	4.09	ng	98
14) Acenaphthene	14.90	154	40565	4.44	ng	# 93
15) Fluorene	15.88	166	51915	3.78	ng	99
17) Hexachlorobenzene	16.89	284	14852	7.08	ng	# 61
18) Pentachlorophenol	17.24	266	6776	17.60	ng	# 82
19) Phenanthrene	17.60	178	90399	5.36	ng	99
20) Anthracene	17.70	178	89382	7.14	ng	100
21) Fluoranthene	19.63	202	389372	7.91	ng	97
23) Pvrene	19.99	202	423420	4.63	ng	98
25) Benzo(a)anthracene	21.72	228	440138	20.25	ng	# 94
26) Chrysene	21.77	228	419334	21.92	ng	# 83
27) Indeno(1,2,3-cd)pyrene	26.63	276	478757	5.62	ng	100
29) Benzo(b)fluoranthene	23.45	252	105580	4.81	ng	97
30) Benzo(k)fluoranthene	23.45	252	107768	4.80	ng	95
31) Benzo(a)pvrene	24.02	252	103580	5.08	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	98754	5.21	ng	# 92
33) Benzo(g,h,i)perylene	27.42	276	409661	5.14	ng	# 94

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

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BNA_E
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

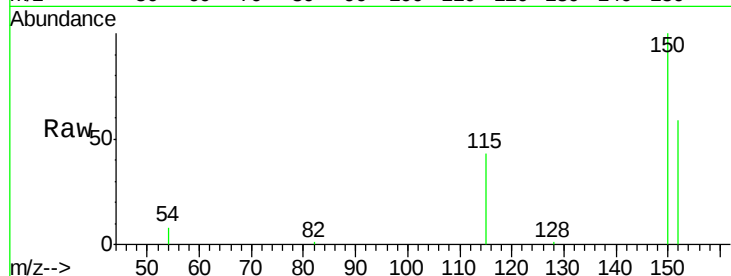
Tot Ion:152 Resp: 10897

Ion Ratio Lower Upper

152 100

150 170.1 106.0 159.0#

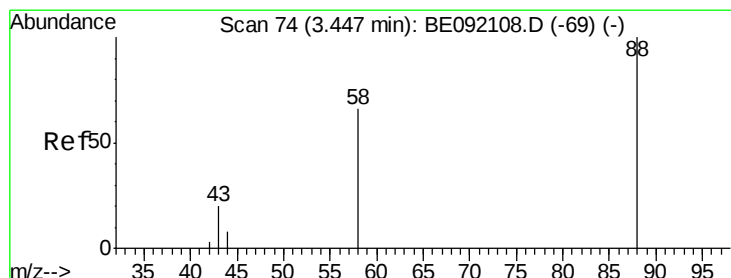
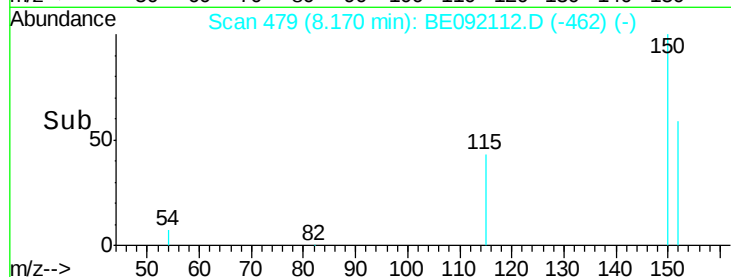
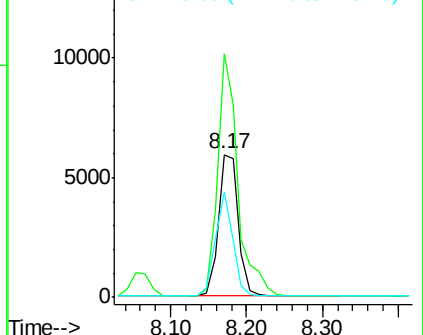
115 73.6 36.9 55.3#



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: 4.31 ng

RT: 3.43 min Scan# 73

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

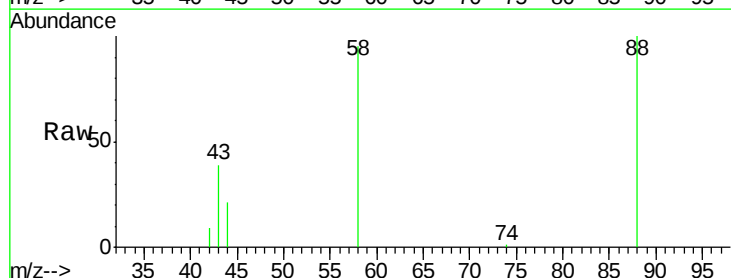
Tgt Ion: 88 Resp: 6788

Ion Ratio Lower Upper

88 100

58 85.3 62.1 93.1

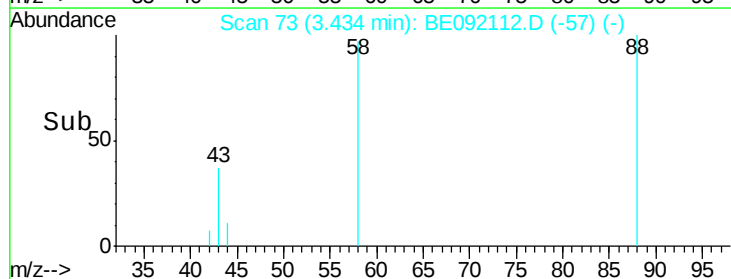
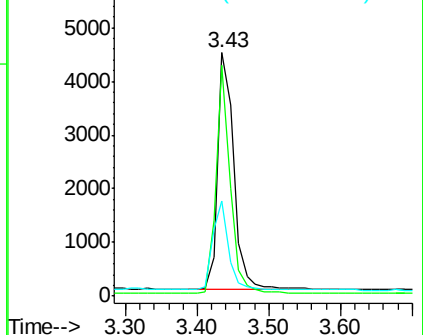
43 36.8 27.2 40.8

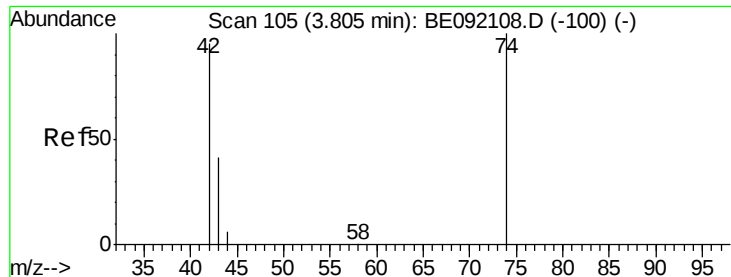


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



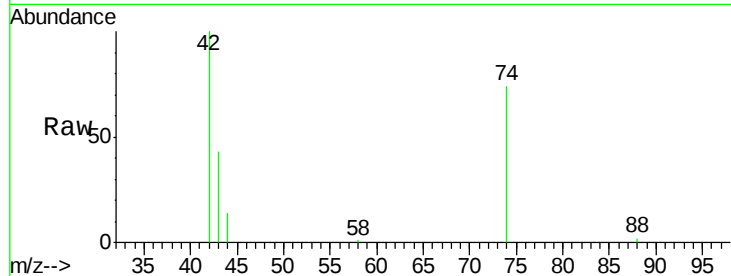


#3

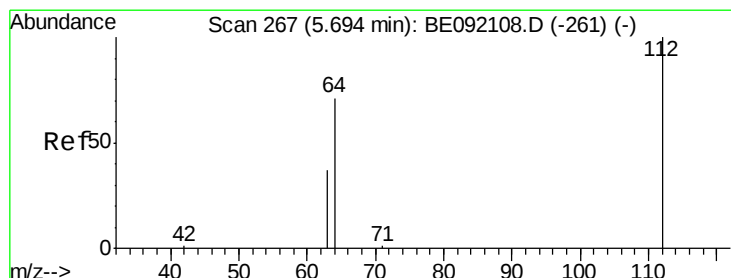
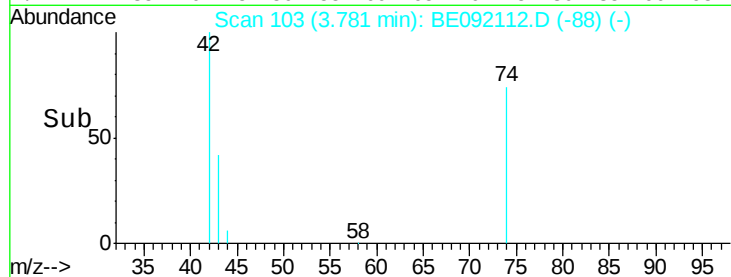
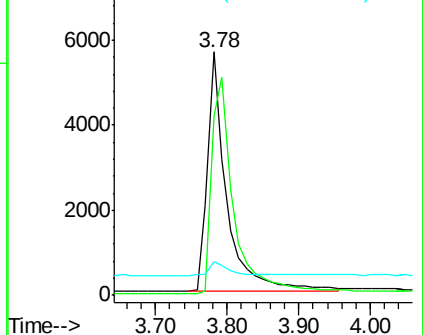
n-Nitrosodimethylamine
 Concen: 5.21 ng
 RT: 3.78 min Scan# 103
 Delta R.T. -0.02 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 10419
 Ion Ratio Lower Upper
 42 100
 74 103.9 82.8 124.2
 44 6.0 9.0 13.4#



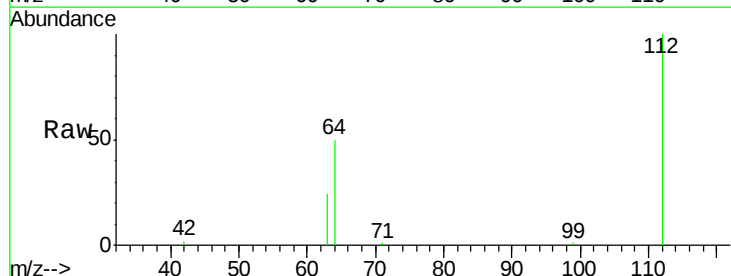
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



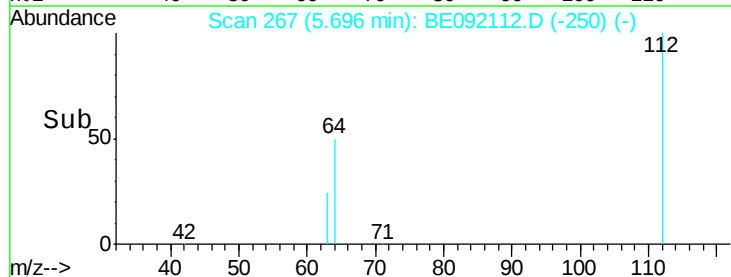
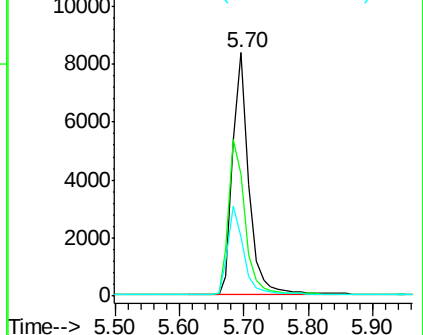
#4

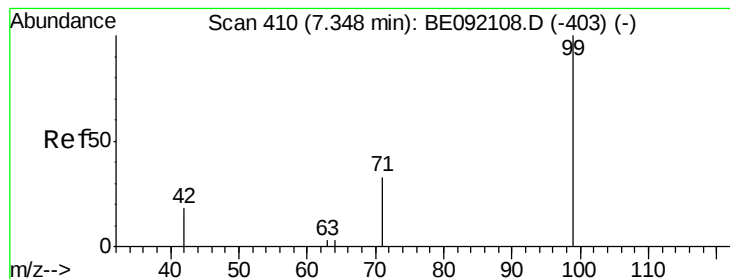
2-Fluorophenol
 Concen: 4.06 ng
 RT: 5.70 min Scan# 267
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion: 112 Resp: 14421
 Ion Ratio Lower Upper
 112 100
 64 66.5 55.9 83.9
 63 36.0 31.1 46.7



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 4.80 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

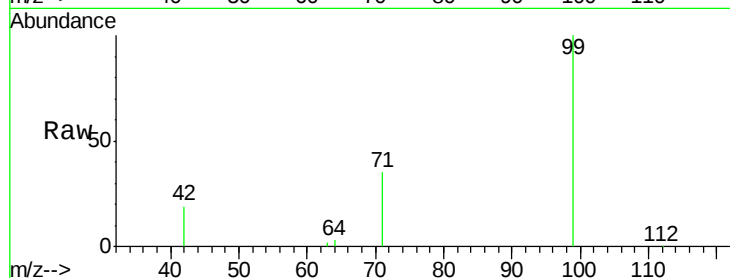
Tot Ion: 99 Resp: 20492

Ion Ratio Lower Upper

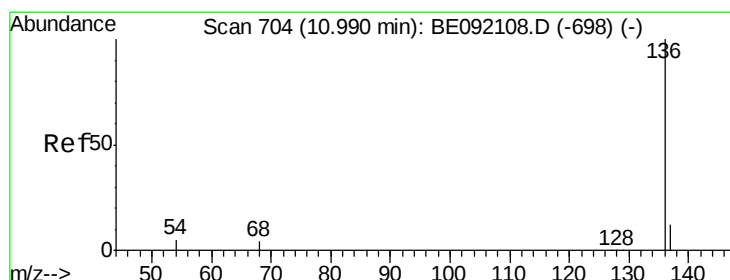
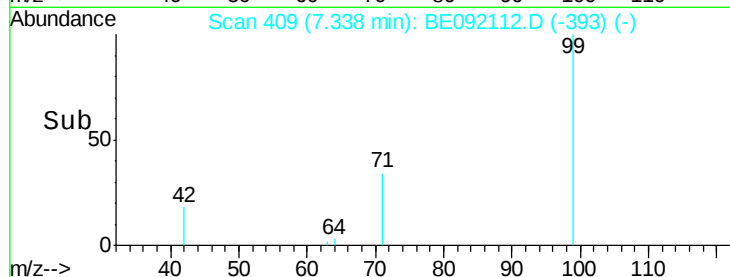
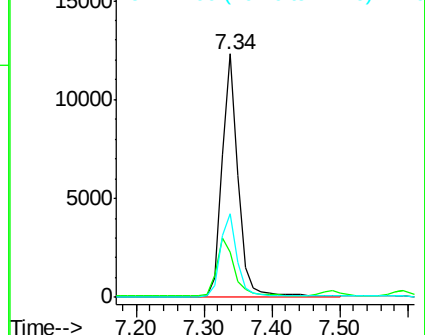
99 100

42 26.0 22.4 33.6

71 35.4 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Tgt Ion: 136 Resp: 52180

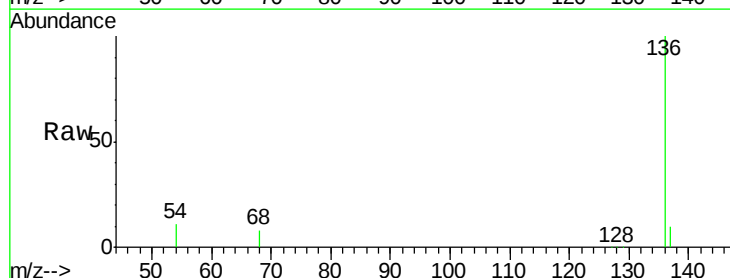
Ion Ratio Lower Upper

136 100

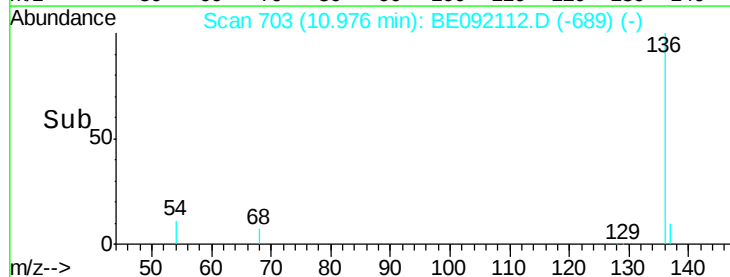
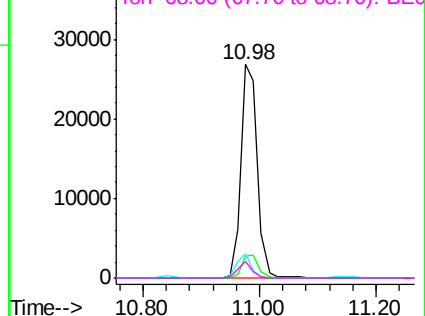
137 10.2 9.1 13.7

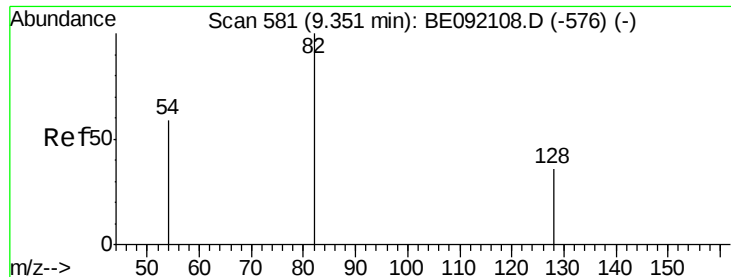
54 11.1 2.7 4.1#

68 7.6 2.2 3.4#



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
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 4.56 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

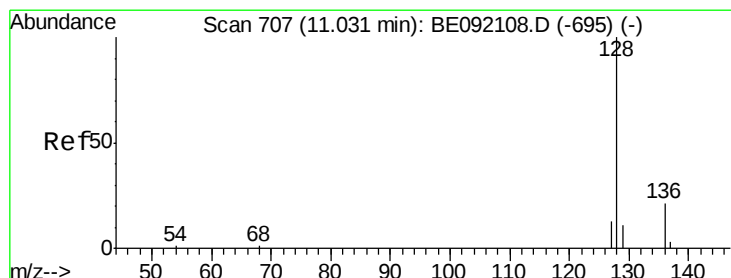
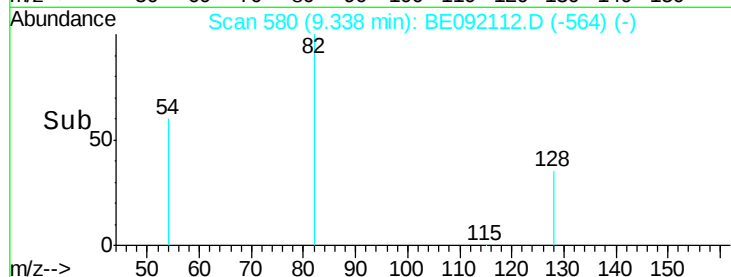
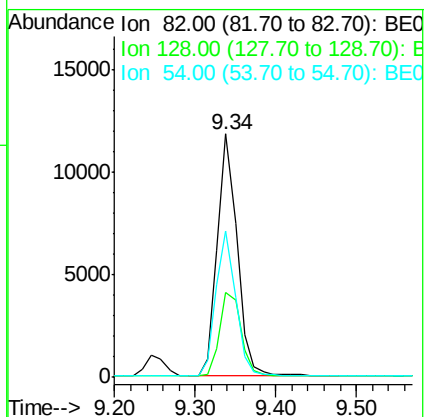
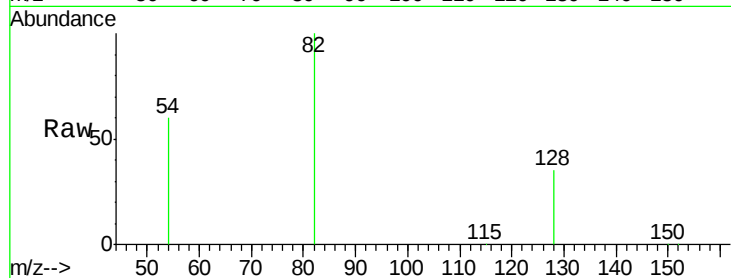
Tot Ion: 82 Resp: 20402

Ion Ratio Lower Upper

82 100

128 35.0 33.0 49.4

54 60.1 42.6 63.8



#8

Naphthalene

Concen: 4.78 ng

RT: 11.03 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

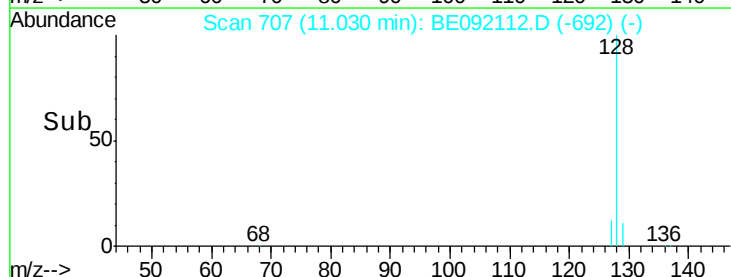
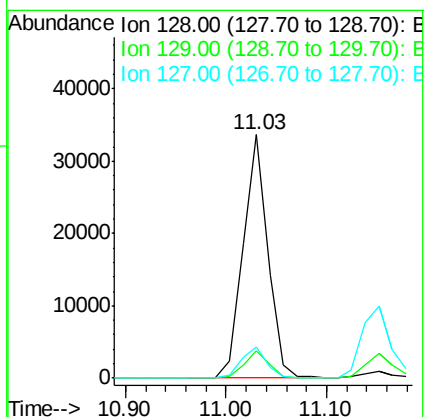
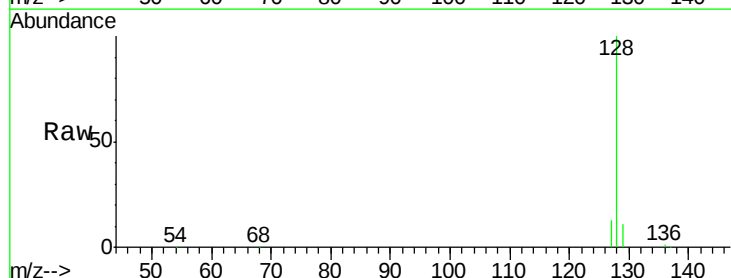
Tgt Ion: 128 Resp: 57459

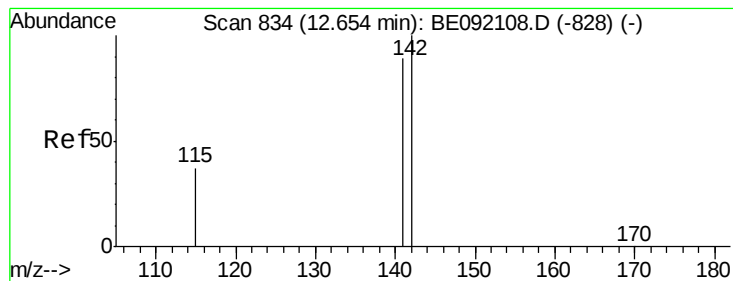
Ion Ratio Lower Upper

128 100

129 11.2 11.1 16.7

127 12.6 11.3 16.9





#9

2-Methylnaphthalene

Concen: 4.73 ng

RT: 12.65 min Scan# 834

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

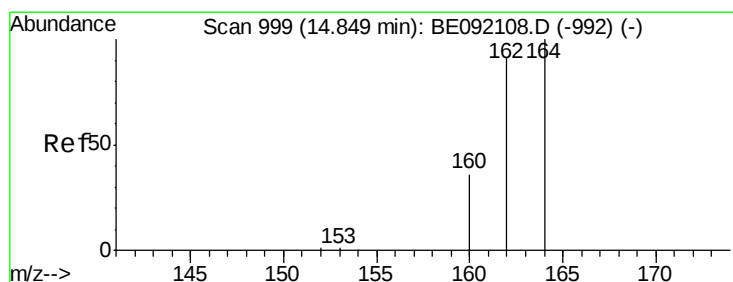
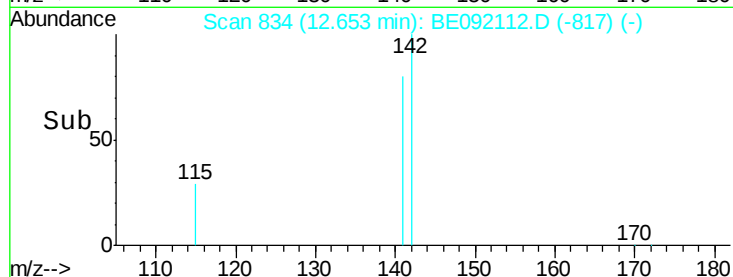
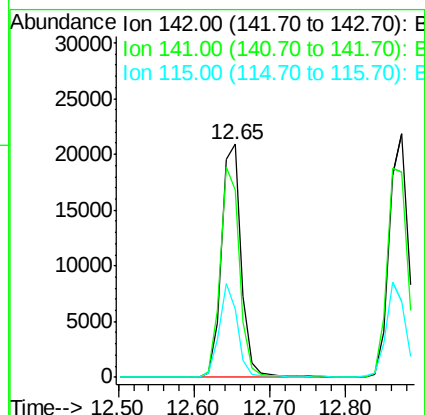
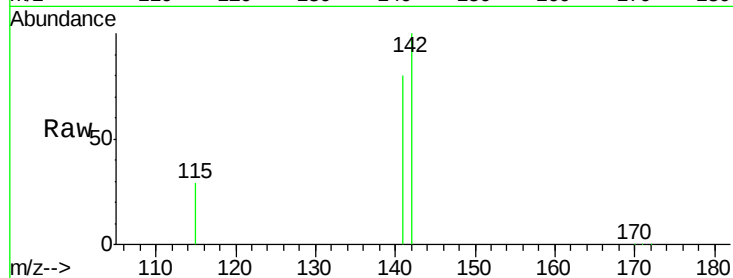
Tot Ion:142 Resp: 38082

Ion Ratio Lower Upper

142 100

141 80.4 65.1 97.7

115 29.4 27.0 40.4



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.85 min Scan# 999

Delta R.T. 0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

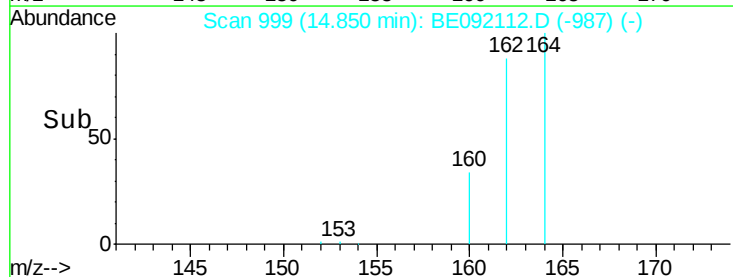
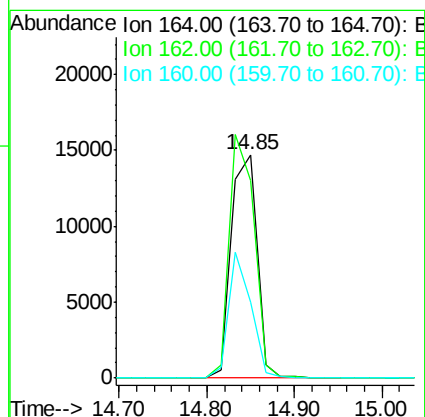
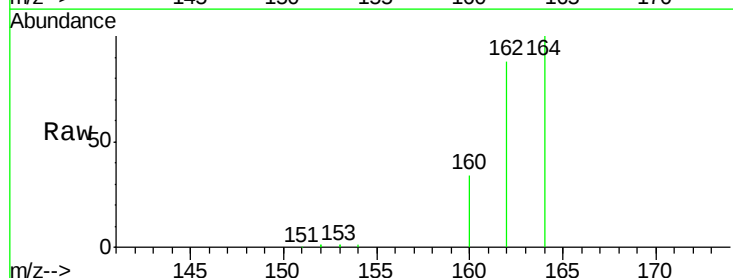
Tgt Ion:164 Resp: 29861

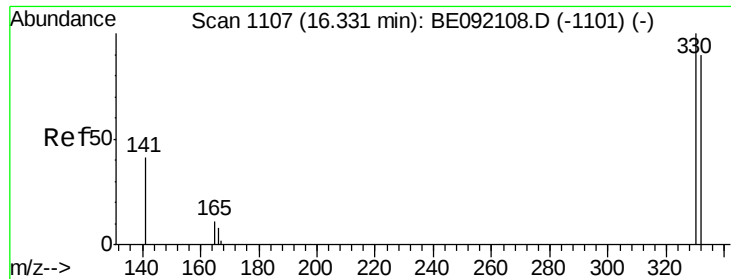
Ion Ratio Lower Upper

164 100

162 88.3 69.5 104.3

160 34.2 27.6 41.4

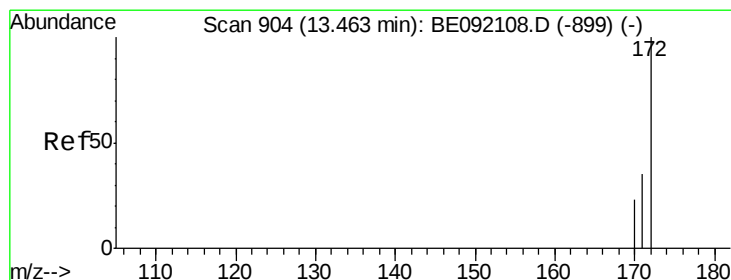
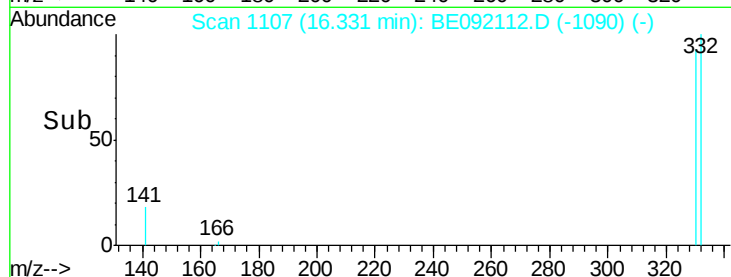
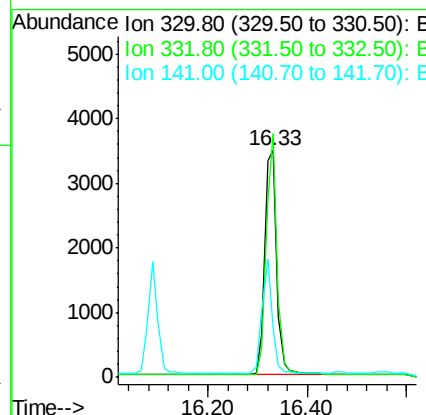
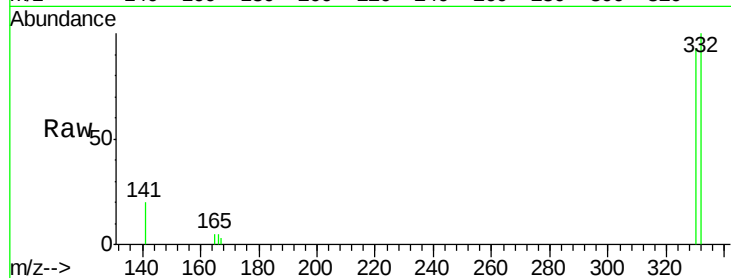




#11
 2,4,6-Tribromophenol
 Concen: 2.77 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

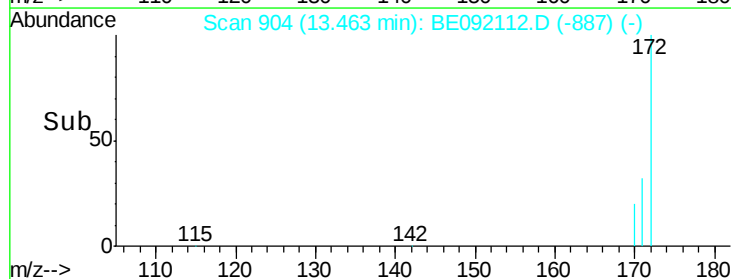
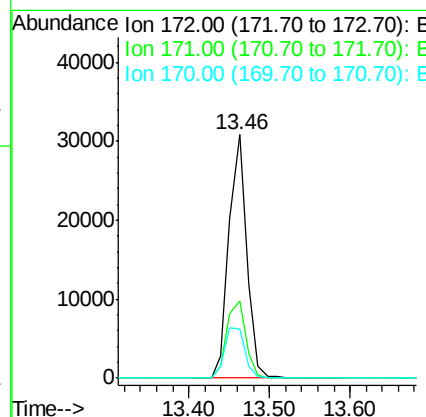
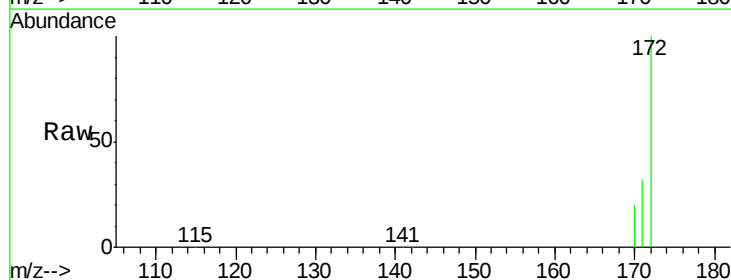
Instrument :
 BNA_E
 ClientSampleId :

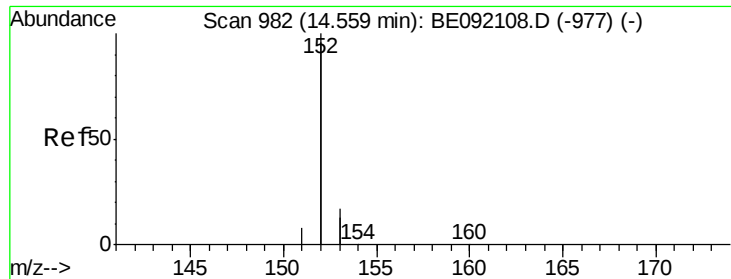
Tot Ion:330 Resp: 6005
 Ion Ratio Lower Upper
 330 100
 332 97.0 74.2 111.4
 141 43.7 139.8 209.8#



#12
 2-Fluorobiphenyl
 Concen: 4.06 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion:172 Resp: 46963
 Ion Ratio Lower Upper
 172 100
 171 31.9 30.3 45.5
 170 20.0 21.6 32.4#

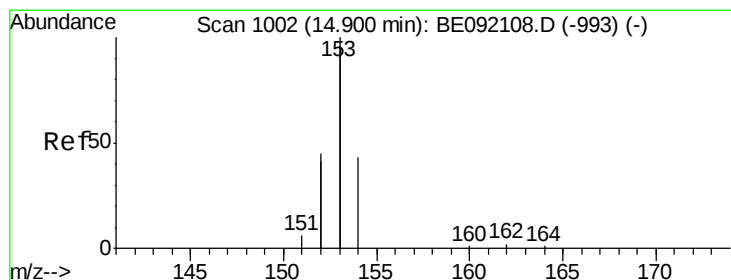
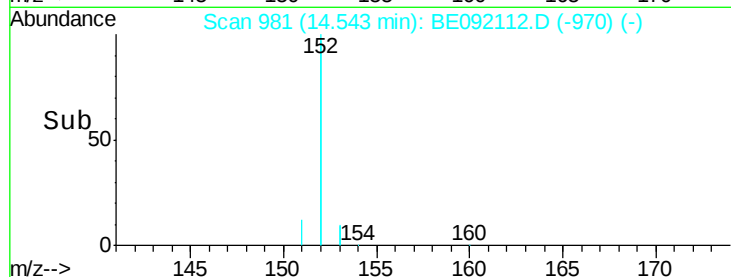
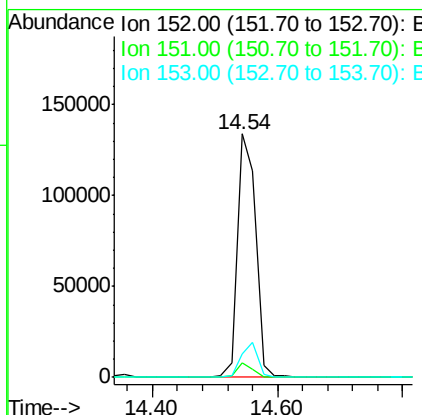
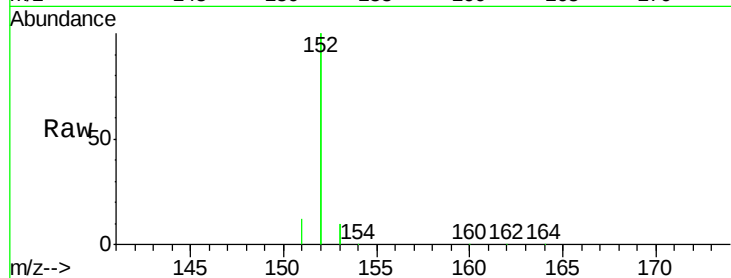




#13
Acenaphthylene
Concen: 4.09 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

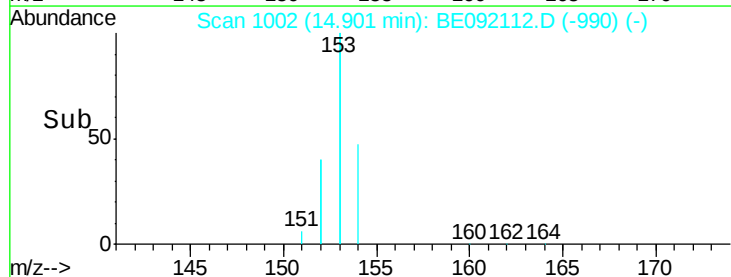
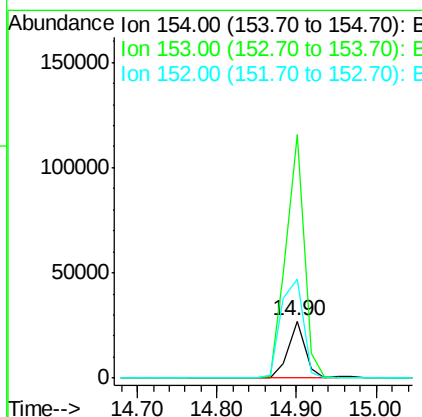
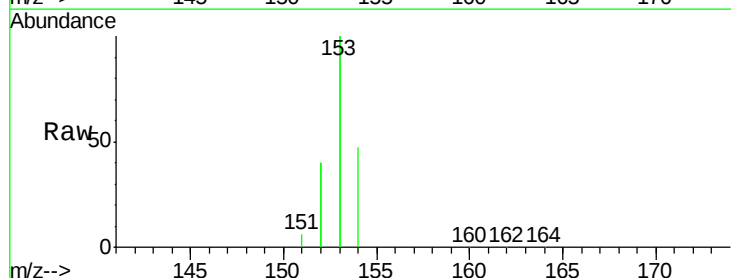
Instrument :
BNA_E
ClientSampleId :

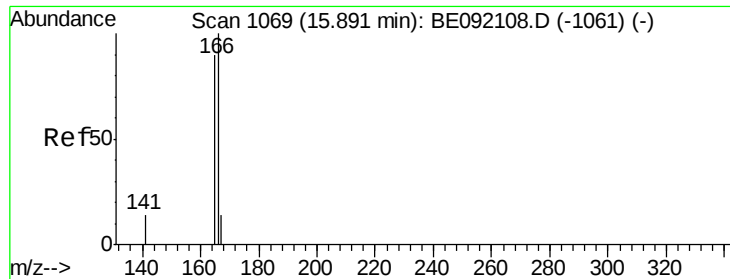
Tot Ion:152 Resp: 270632
Ion Ratio Lower Upper
152 100
151 5.0 4.0 6.0
153 13.0 9.6 14.4



#14
Acenaphthene
Concen: 4.44 ng
RT: 14.90 min Scan# 1002
Delta R.T. 0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion:154 Resp: 40565
Ion Ratio Lower Upper
154 100
153 449.4 345.1 517.7
152 224.6 0.0 0.0#





#15

Fluorene

Concen: 3.78 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

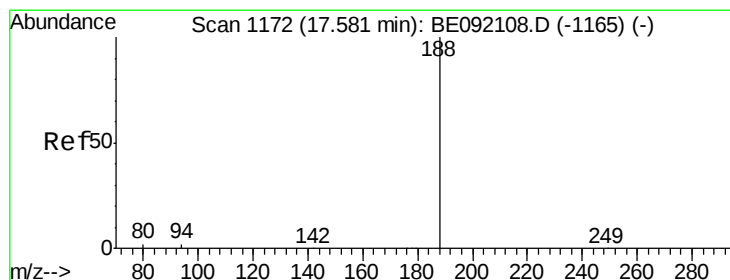
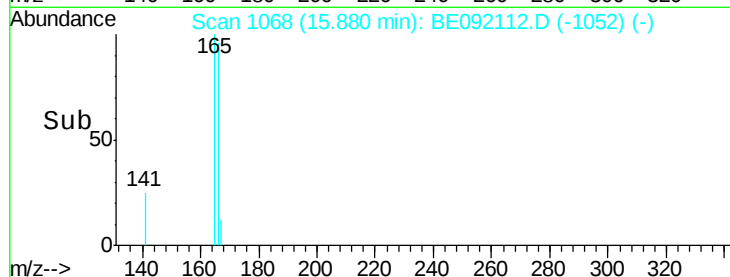
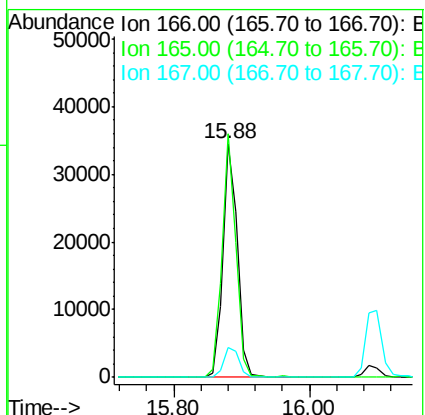
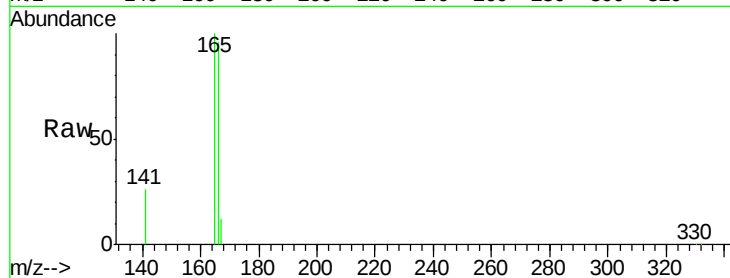
Tot Ion:166 Resp: 51915

Ion Ratio Lower Upper

166 100

165 98.7 78.6 118.0

167 13.5 11.1 16.7



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

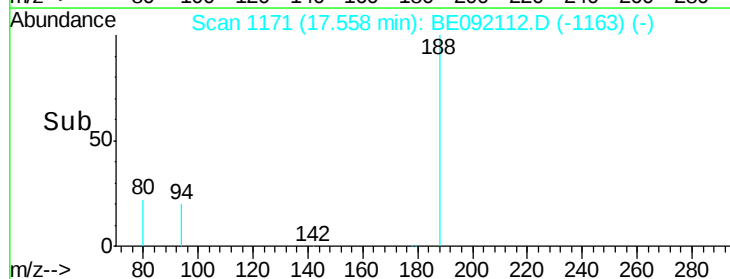
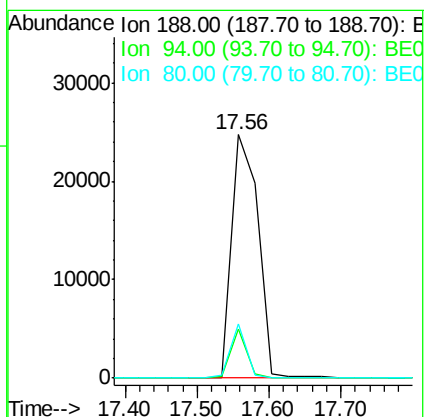
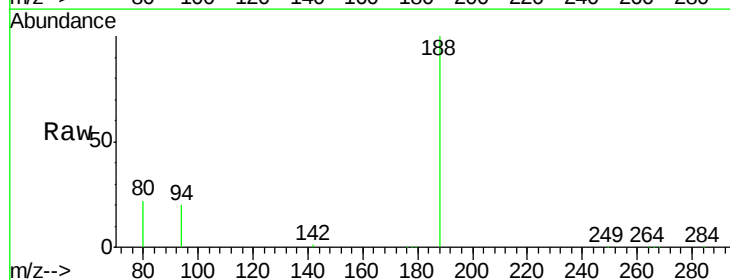
Tgt Ion:188 Resp: 62800

Ion Ratio Lower Upper

188 100

94 20.0 3.9 5.9#

80 22.2 3.4 5.0#

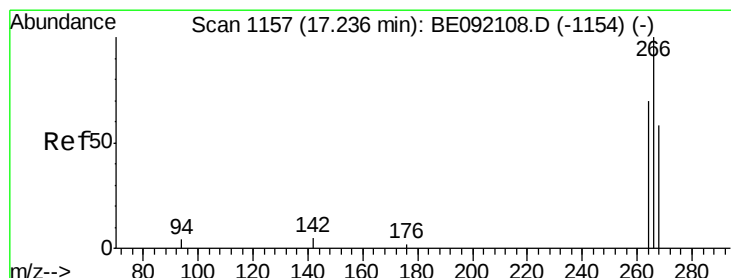
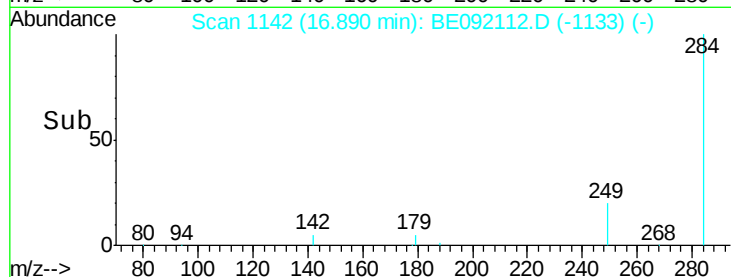
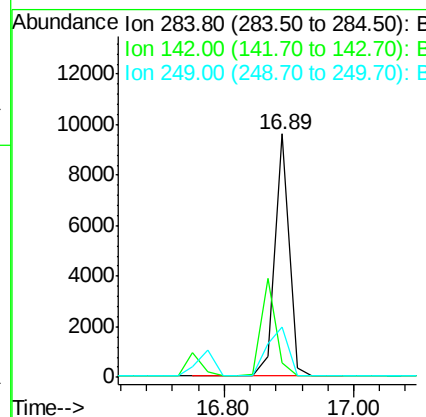
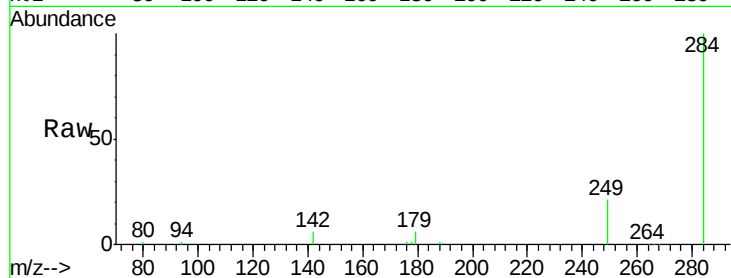




#17
Hexachlorobenzene
Concen: 7.08 ng
RT: 16.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

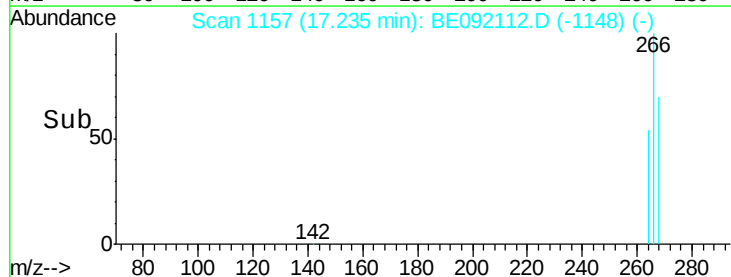
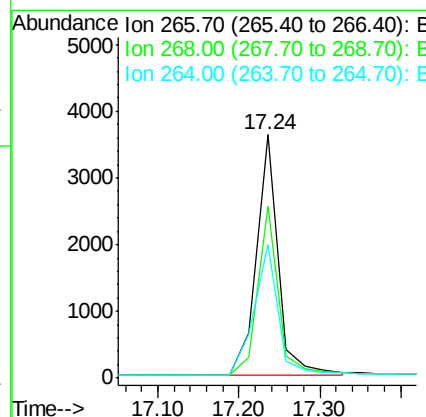
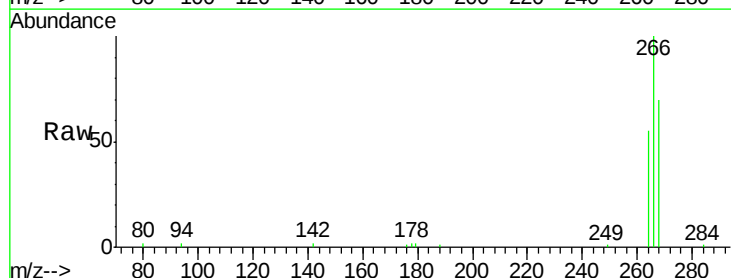
Instrument :
BNA_E
ClientSampleId :

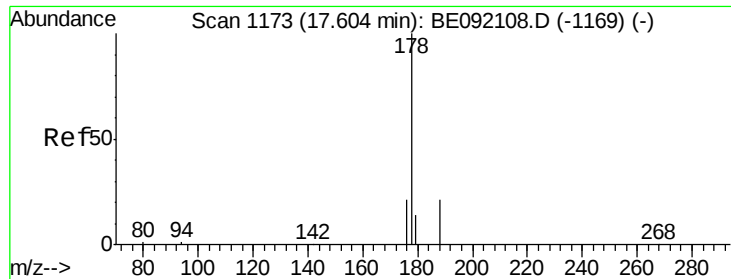
Tot Ion:284 Resp: 14852
Ion Ratio Lower Upper
284 100
142 0.0 33.3 49.9#
249 30.1 25.4 38.0



#18
Pentachlorophenol
Concen: 17.60 ng
RT: 17.24 min Scan# 1157
Delta R.T. -0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion:266 Resp: 6776
Ion Ratio Lower Upper
266 100
268 70.5 62.7 94.1
264 55.0 63.5 95.3#





#19

Phenanthrene

Concen: 5.36 ng

RT: 17.60 min Scan# 1173

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

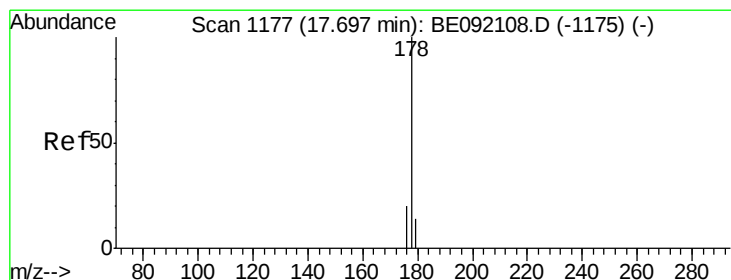
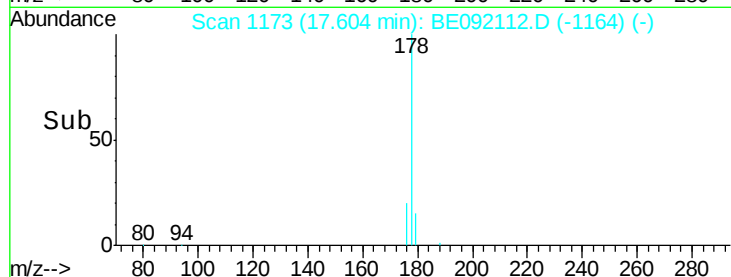
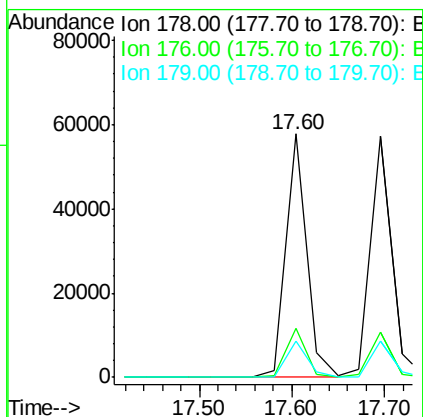
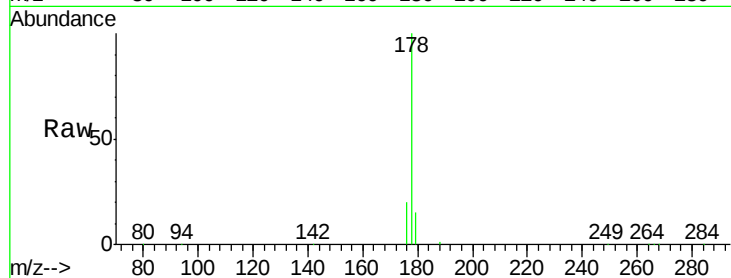
Tot Ion:178 Resp: 90399

Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.0

179 15.2 12.7 19.1



#20

Anthracene

Concen: 7.14 ng

RT: 17.70 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

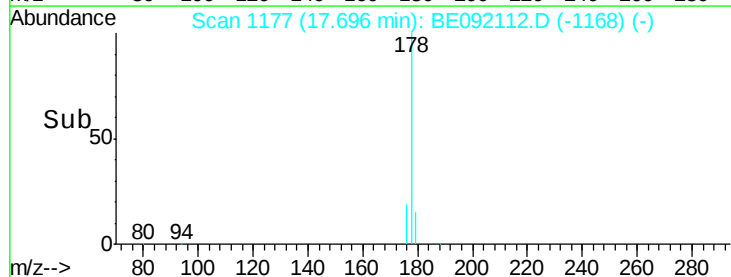
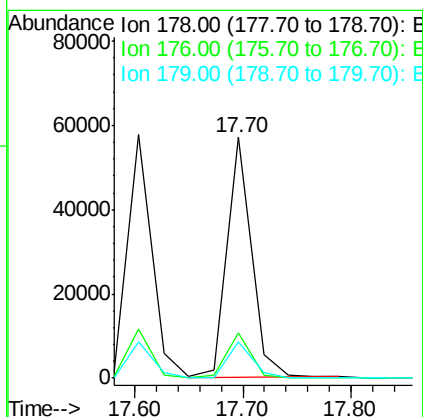
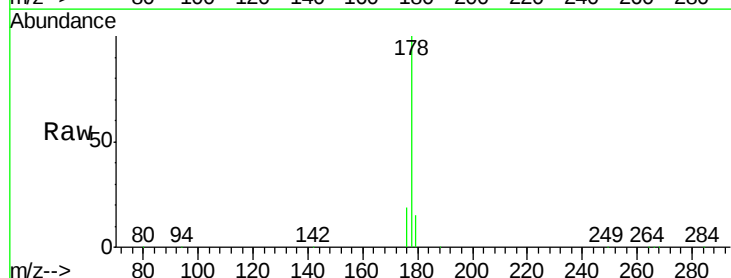
Tgt Ion:178 Resp: 89382

Ion Ratio Lower Upper

178 100

176 18.7 15.2 22.8

179 15.3 12.2 18.4





#21

Fluoranthene

Concen: 7.91 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

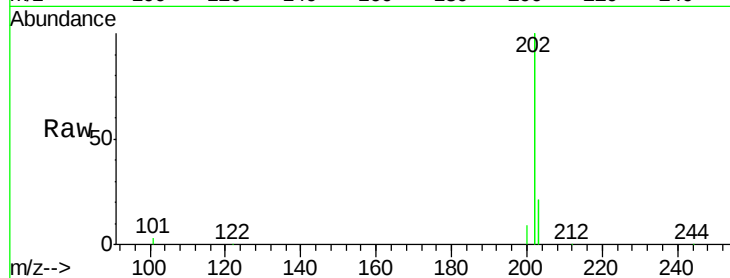
Tot Ion:202 Resp: 389372

Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.2

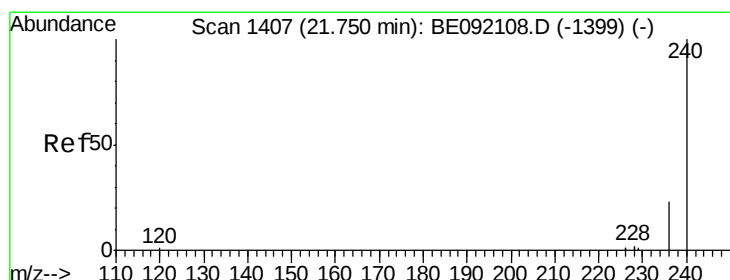
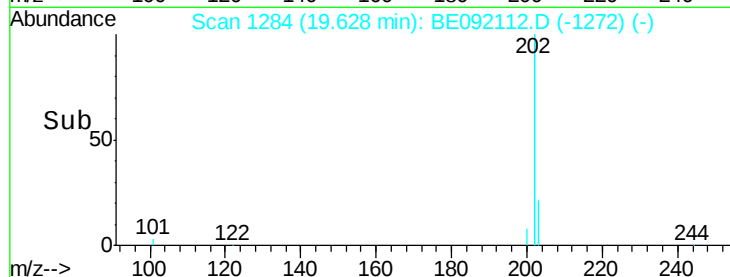
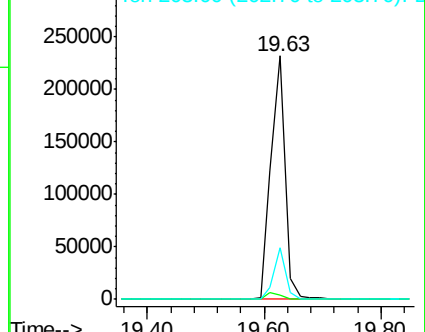
203 17.9 13.0 19.4



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



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1407

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

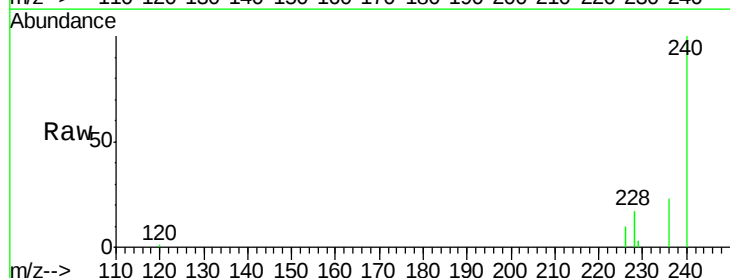
Tgt Ion:240 Resp: 80391

Ion Ratio Lower Upper

240 100

120 1.1 0.6 1.0#

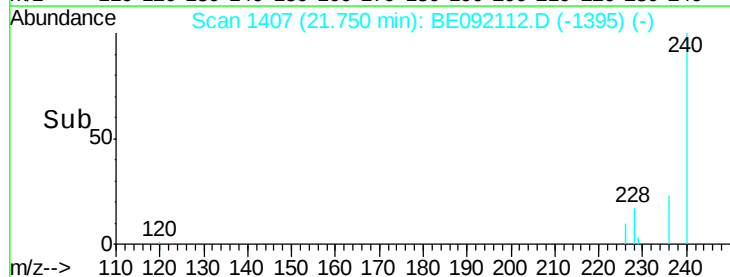
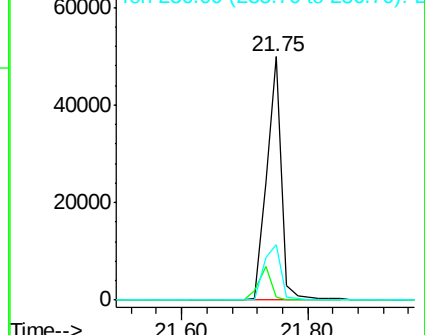
236 22.8 18.2 27.4

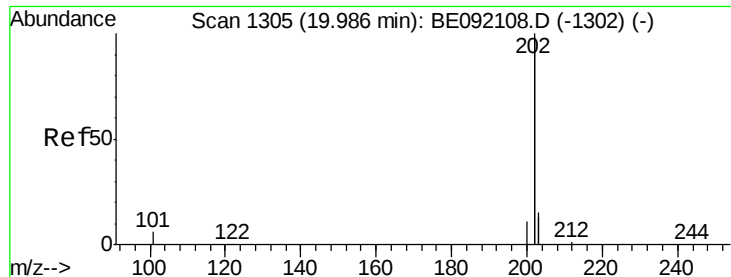


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

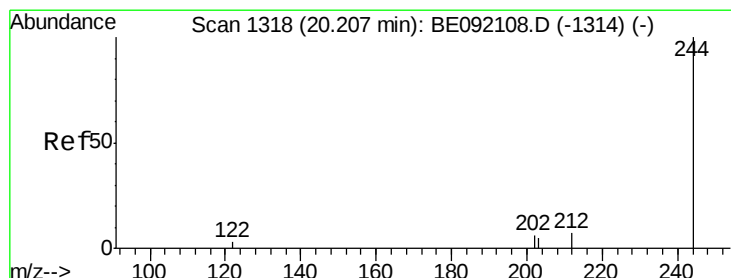
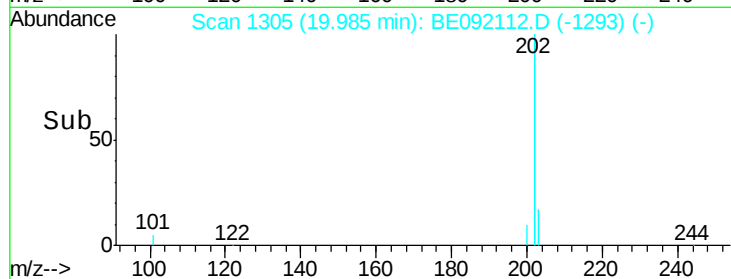
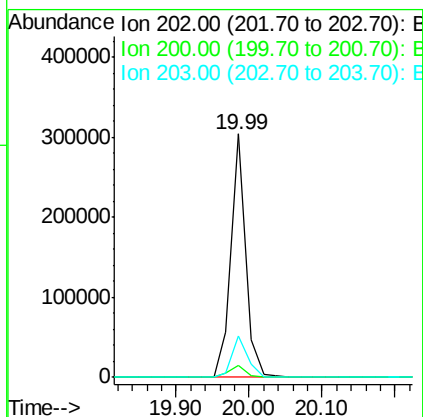
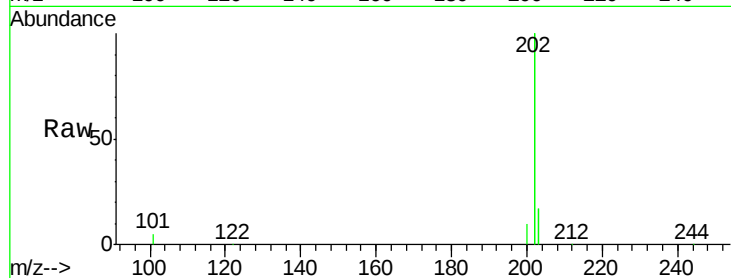




#23
Pvrene
Concen: 4.63 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

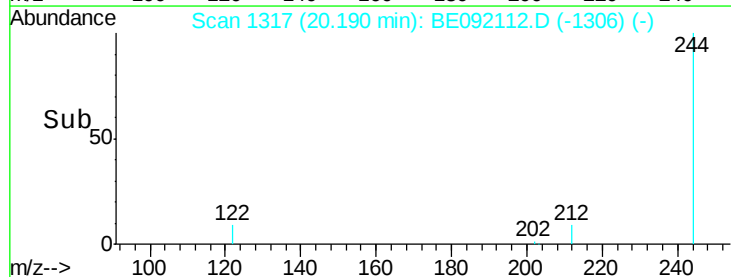
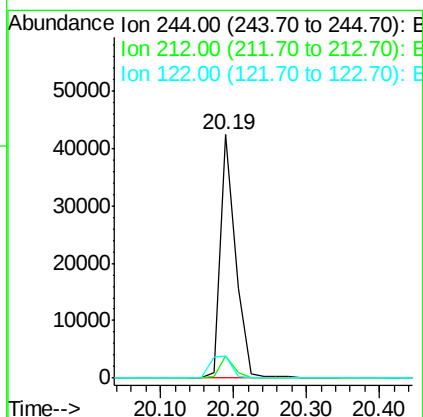
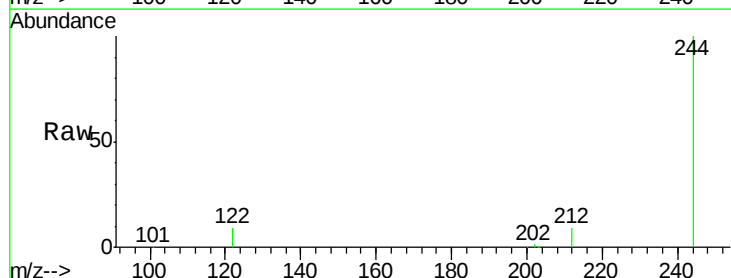
Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 423420
Ion Ratio Lower Upper
202 100
200 5.4 4.4 6.6
203 17.6 13.4 20.0



#24
Terphenyl-d14
Concen: 5.08 ng
RT: 20.19 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion:244 Resp: 62046
Ion Ratio Lower Upper
244 100
212 9.4 9.1 13.7
122 8.9 11.0 16.4#





#25

Benzo(a)anthracene

Concen: 20.25 ng

RT: 21.72 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

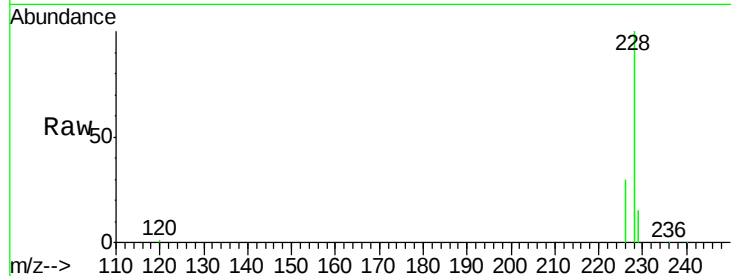
Tot Ion:228 Resp: 440138

Ion Ratio Lower Upper

228 100

226 29.7 22.1 33.1

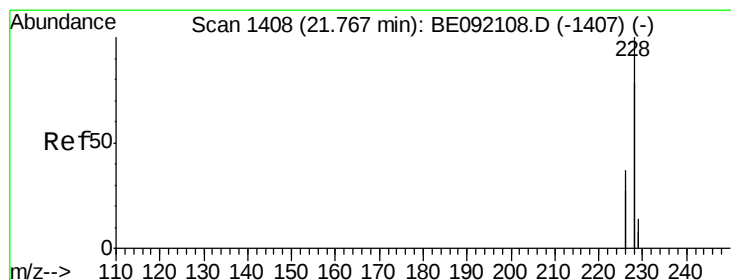
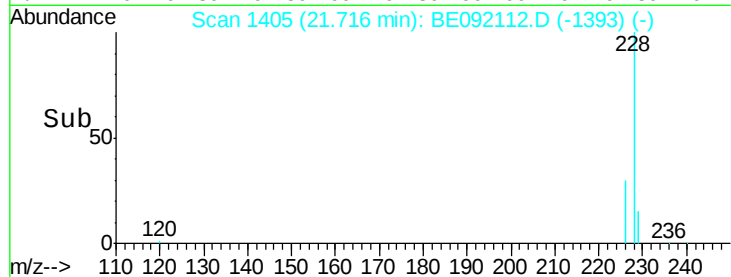
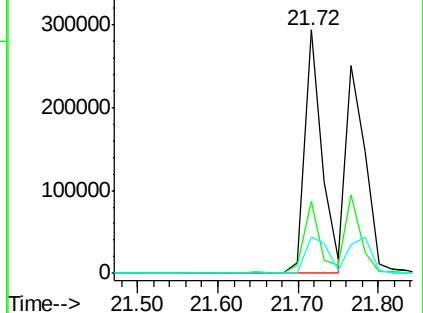
229 15.1 15.1 22.7#



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



#26

Chrysene

Concen: 21.92 ng

RT: 21.77 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

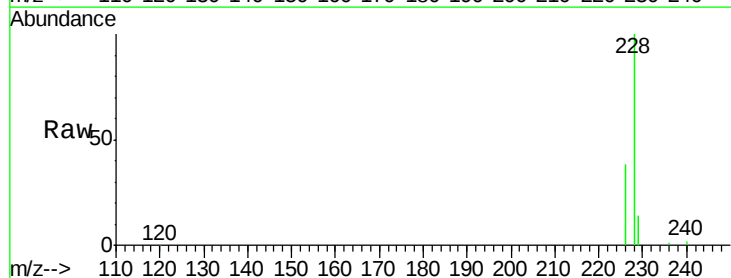
Tgt Ion:228 Resp: 419334

Ion Ratio Lower Upper

228 100

226 37.6 22.3 33.5#

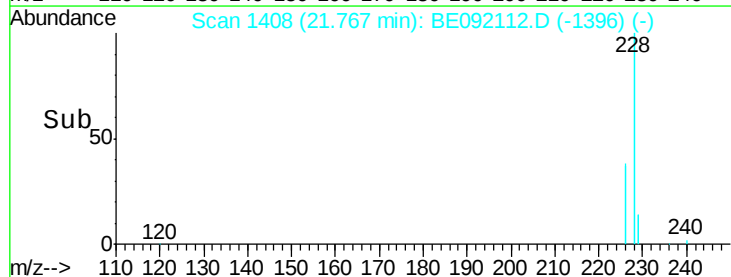
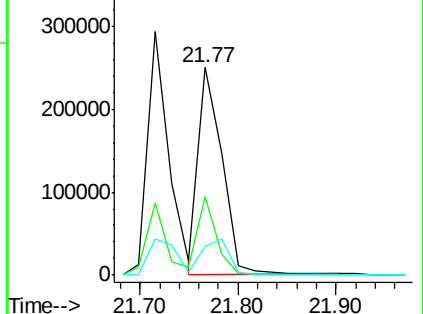
229 14.0 16.9 25.3#



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

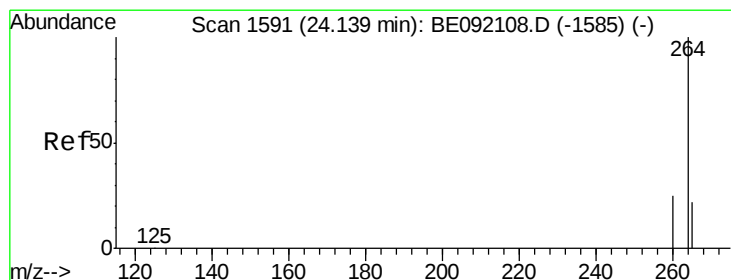
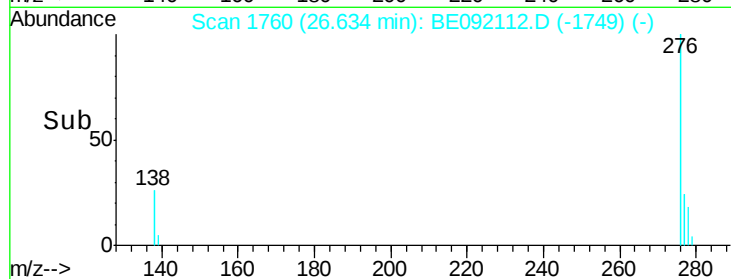
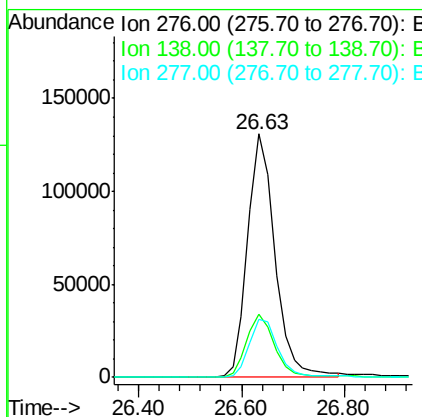
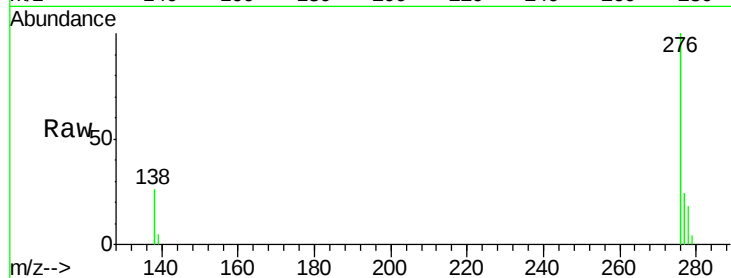




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 5.62 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

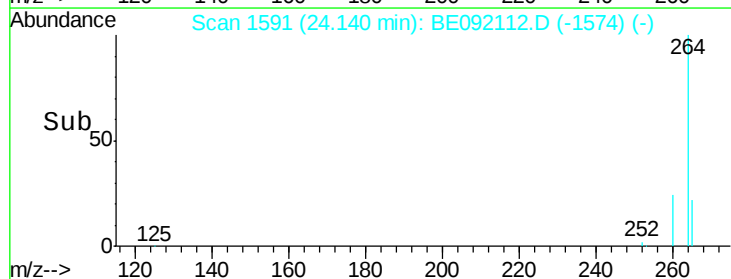
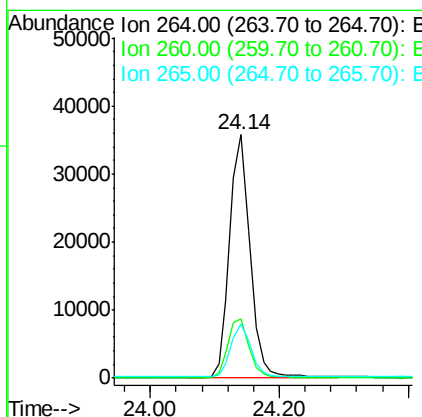
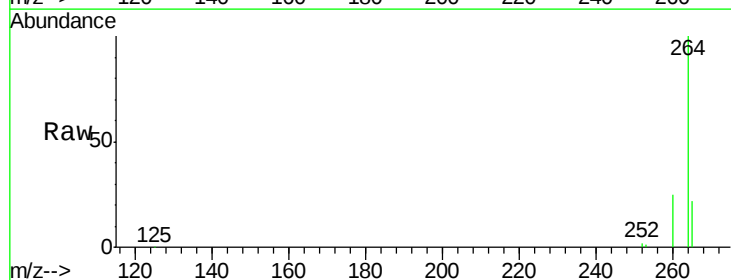
Instrument :
 BNA_E
 ClientSampleId :

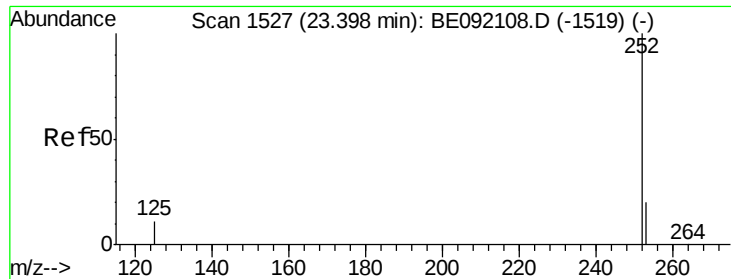
Tot Ion:276 Resp: 478757
 Ion Ratio Lower Upper
 276 100
 138 26.6 21.2 31.8
 277 24.9 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092112.D
 Acq: 2 Aug 2016 15:20

Tgt Ion:264 Resp: 79139
 Ion Ratio Lower Upper
 264 100
 260 24.6 20.8 31.2
 265 22.3 16.6 25.0





#29

Benzo(b)fluoranthene

Concen: 4.81 ng

RT: 23.45 min Scan# 1531

Delta R.T. 0.05 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :

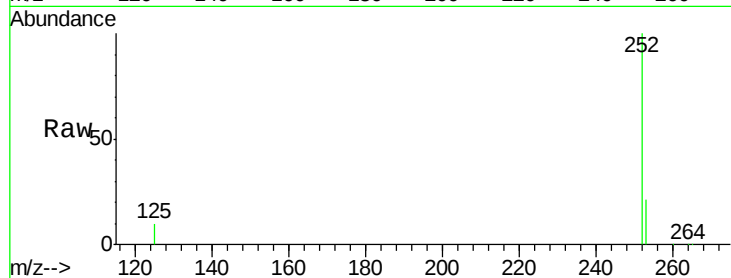
Tot Ion:252 Resp: 105580

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.0

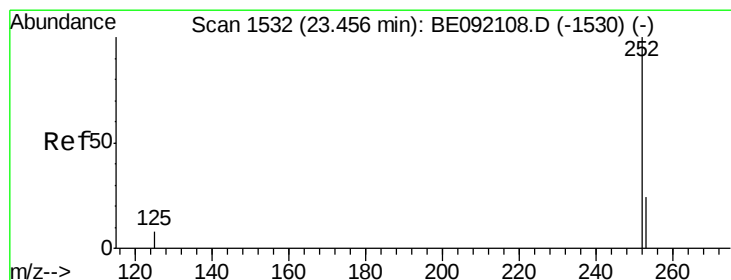
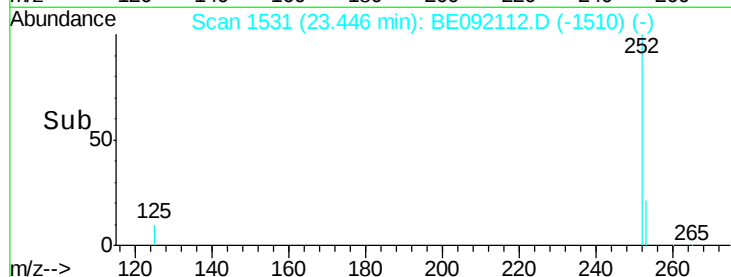
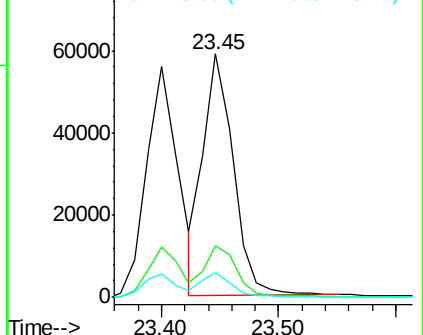
125 10.3 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#30

Benzo(k)fluoranthene

Concen: 4.80 ng

RT: 23.45 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

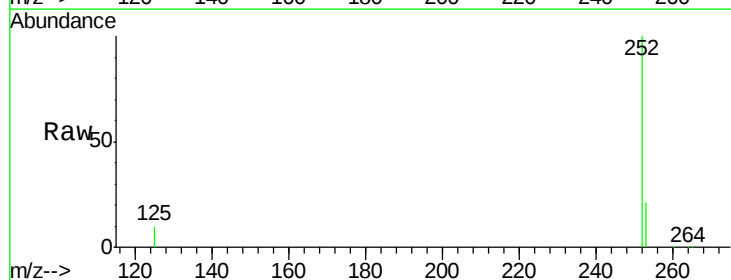
Tgt Ion:252 Resp: 107768

Ion Ratio Lower Upper

252 100

253 21.4 19.4 29.0

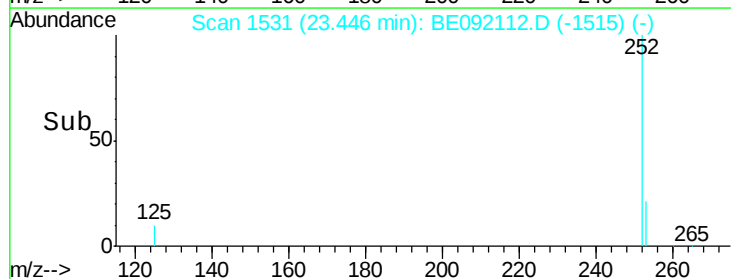
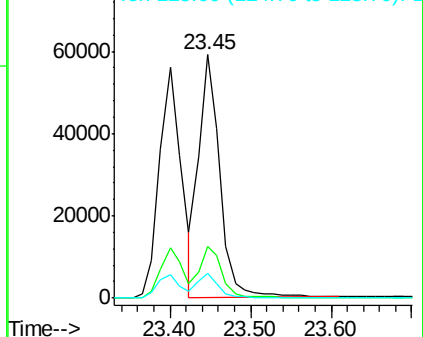
125 10.3 8.9 13.3

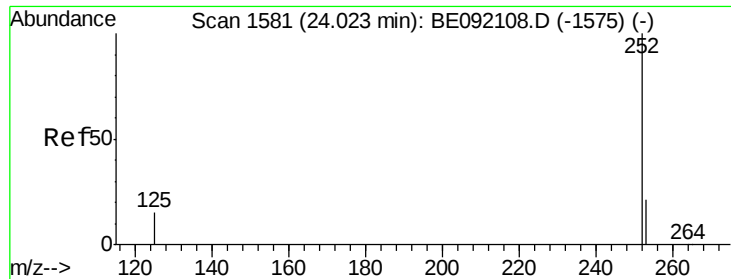


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

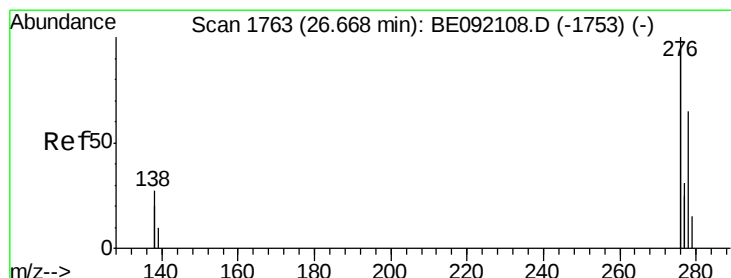
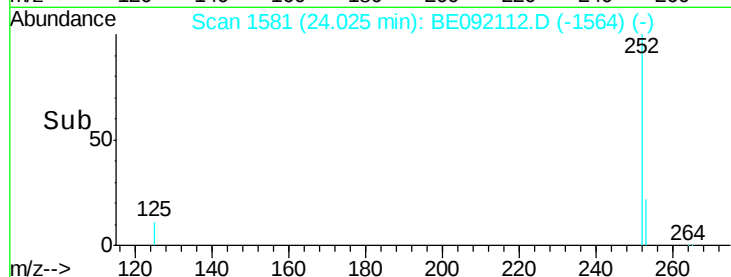
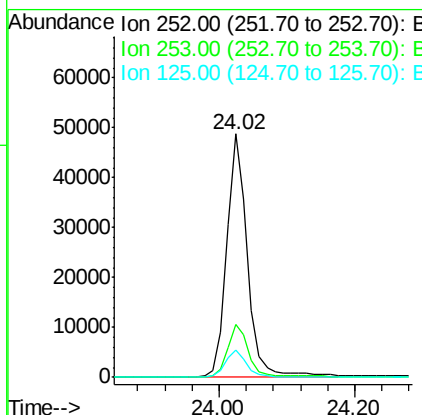
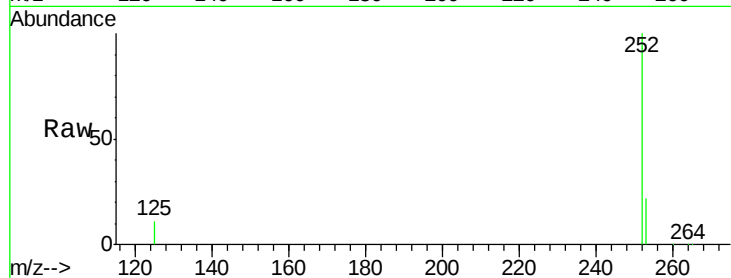




#31
Benzo(a)pyrene
Concen: 5.08 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

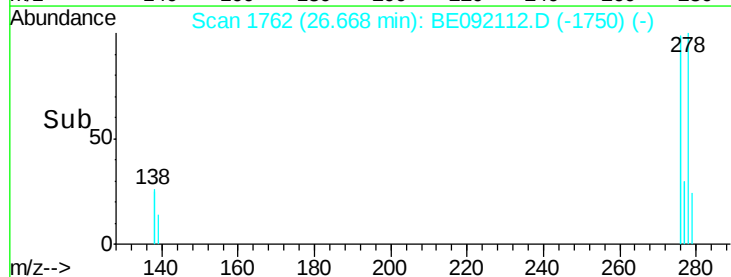
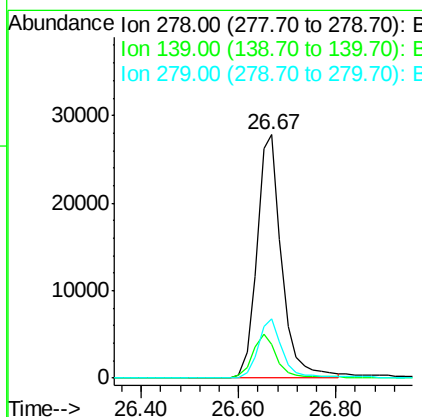
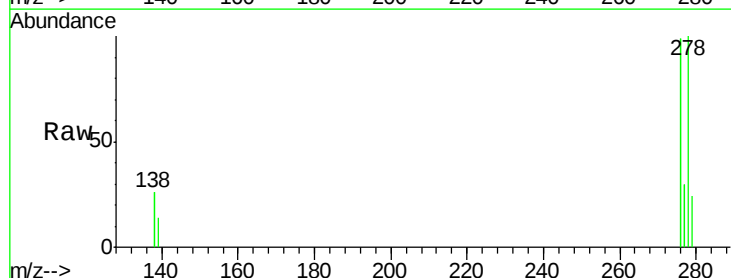
Instrument :
BNA_E
ClientSampleId :

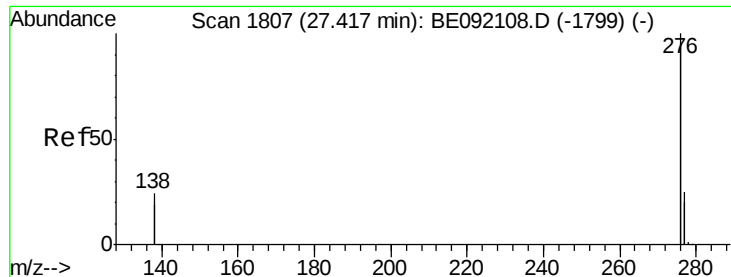
Tot Ion:252 Resp: 103580
Ion Ratio Lower Upper
252 100
253 21.8 19.8 29.8
125 11.3 10.4 15.6



#32
Dibenzo(a,h)anthracene
Concen: 5.21 ng
RT: 26.67 min Scan# 1762
Delta R.T. 0.00 min
Lab File: BE092112.D
Acq: 2 Aug 2016 15:20

Tgt Ion:278 Resp: 98754
Ion Ratio Lower Upper
278 100
139 13.8 16.7 25.1#
279 24.2 20.3 30.5





#33

Benzo(a,h,i)perylene

Concen: 5.14 ng

RT: 27.42 min Scan# 1806

Delta R.T. 0.00 min

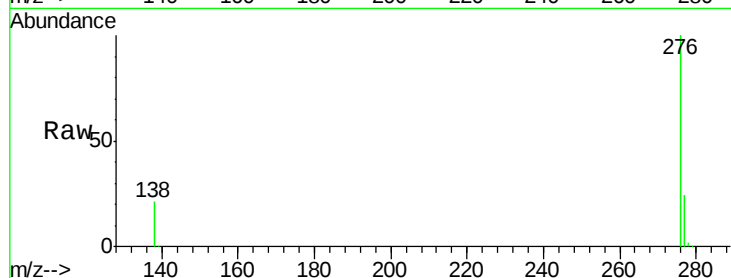
Lab File: BE092112.D

Acq: 2 Aug 2016 15:20

Instrument :

BNA_E

ClientSampleId :



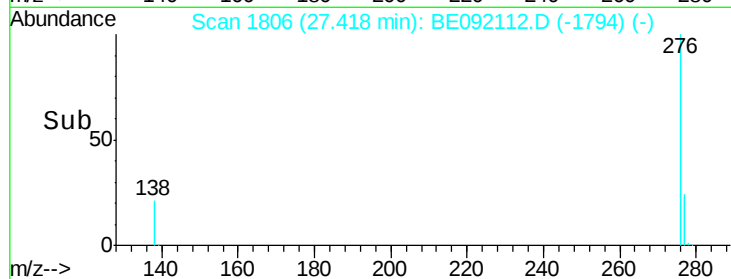
Tot Ion: 276 Resp: 409661

Ion Ratio Lower Upper

276 100

277 24.0 19.5 29.3

138 20.7 20.8 31.2%



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

