

Data Path : Z:\HPCHEM1\BNA E\Data\Be102116\
 Data File : BE092464.D
 Acq On : 21 Oct 2016 11:51
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 21 16:53:43 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.166	152	13698	5.00	ng	-0.02
7) Naphthalene-d8	10.952	136	67498	5.00	ng	0.00
12) Acenaphthene-d10	14.816	164	48763	5.00	ng	0.00
18) Phenanthrene-d10	17.579	188	94430	5.00	ng	0.02
24) Chrysene-d12	21.746	240	124853	5.00	ng	0.00
31) Perylene-d12	24.111	264	106702	5.00	ng	0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.682	112	940	0.40	ng	0.00
5) Phenol-d6	7.359	99	1267	0.36	ng	0.00
8) Nitrobenzene-d5	9.363	82	1483	0.44	ng	0.00
13) 2,4,6-Tribromophenol	16.318	330	415	0.40	ng	0.00
14) 2-Fluorobiphenyl	13.445	172	4878	0.42	ng	0.00
26) Terphenyl-d14	20.189	244	6328	0.41	ng	0.02

Target Compounds

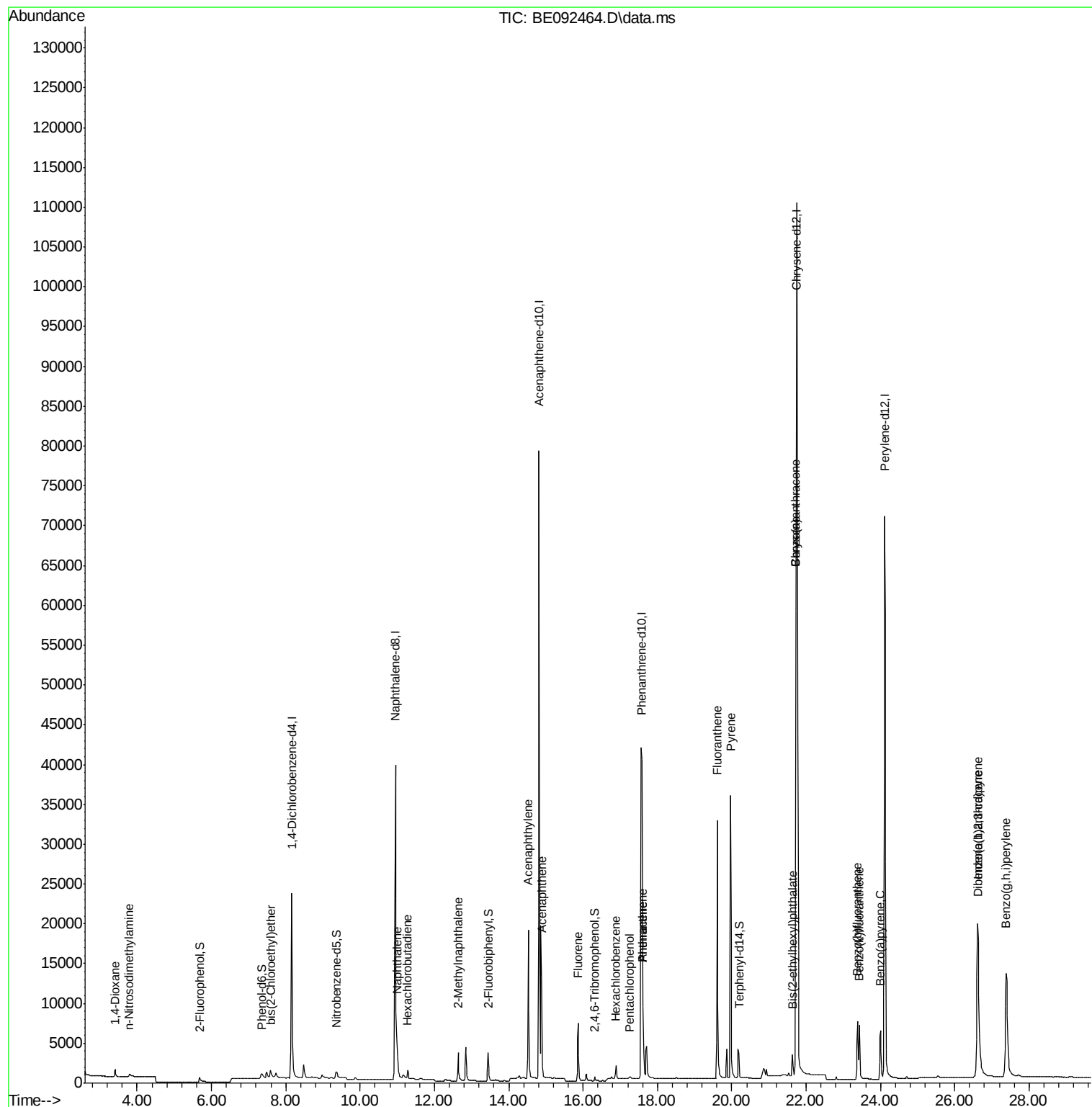
						Qvalue
2) 1,4-Dioxane	3.409	88	662	0.35	ng	97
3) n-Nitrosodimethylamine	3.791	42	673	0.49	ng	91
6) bis(2-Chloroethyl)ether	7.590	93	1198	0.42	ng	97
9) Naphthalene	10.990	128	5796	0.40	ng	97
10) Hexachlorobutadiene	11.278	225	883	0.38	ng	99
11) 2-Methylnaphthalene	12.636	142	3759	0.39	ng	93
15) Acenaphthylene	14.526	152	27621	0.39	ng	100
16) Acenaphthene	14.884	154	4512	0.41	ng	96
17) Fluorene	15.867	166	5452	0.39	ng	99
19) Hexachlorobenzene	16.888	284	1776	0.44	ng	# 64
20) Pentachlorophenol	17.257	266	339	0.40	ng	97
21) Phenanthrene	17.602	178	9987	0.46	ng	# 95
22) Anthracene	17.602	178	9855	0.47	ng	98
23) Fluoranthene	19.610	202	41474	0.40	ng	100
25) Pyrene	19.968	202	48286	0.45	ng	100
27) Benzo(a)anthracene	21.723	228	97377	0.80	ng	92
28) Chrysene	21.723	228	98148	0.88	ng	# 72
29) Bis(2-ethylhexyl)phtha...	21.632	149	3981	0.38	ng	# 75
30) Indeno(1,2,3-cd)pyrene	26.616	276	43525	0.37	ng	98
32) Benzo(b)fluoranthene	23.382	252	10531	0.41	ng	99
33) Benzo(k)fluoranthene	23.429	252	10881	0.40	ng	96
34) Benzo(a)pyrene	24.007	252	10074	0.40	ng	98
35) Dibenzo(a,h)anthracene	26.633	278	8847	0.38	ng	95
36) Benzo(g,h,i)perylene	27.383	276	37799	0.38	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.166 min Scan# 57

Delta R.T. -0.022 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

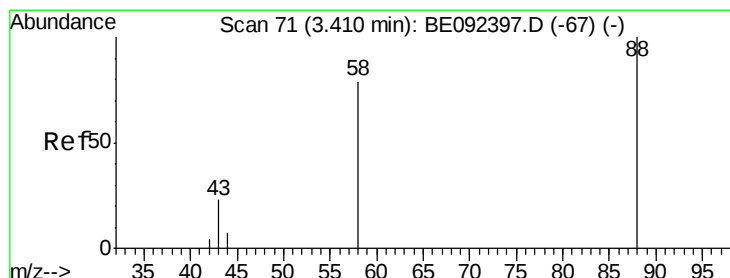
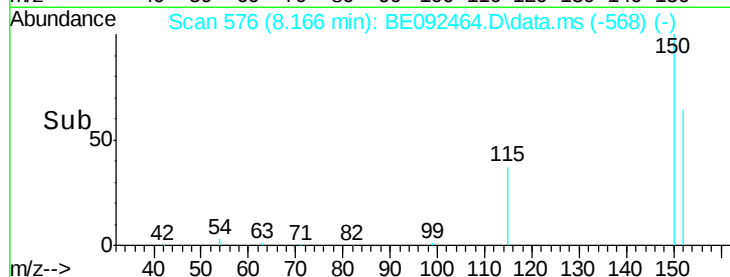
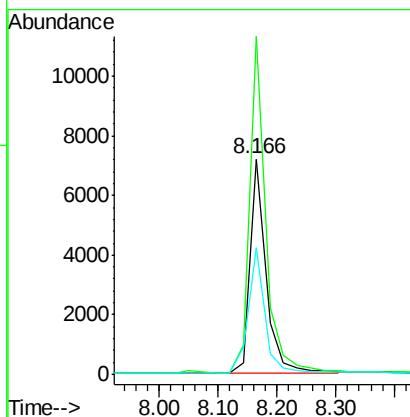
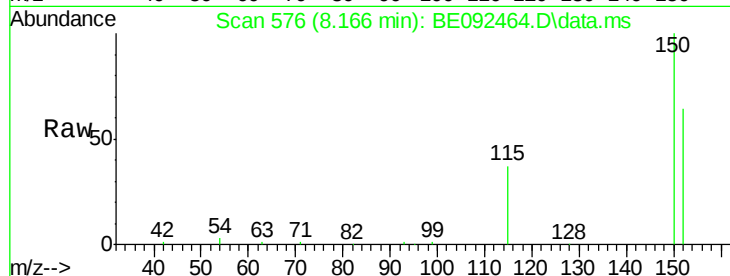
Tot Ion:152 Resp: 13698

Ion Ratio Lower Upper

152 100

150 156.9 106.0 159.0

115 58.8 31.2 46.8#



#2

1,4-Dioxane

Concen: 0.35 ng

RT: 3.409 min Scan# 71

Delta R.T. -0.012 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

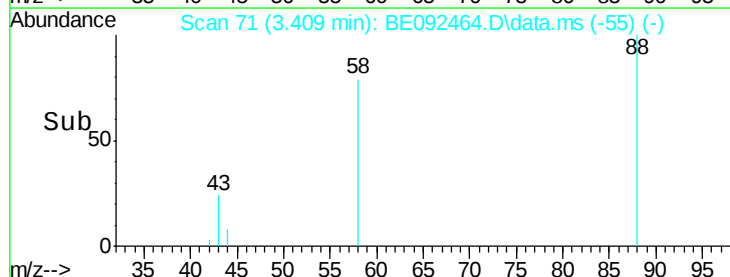
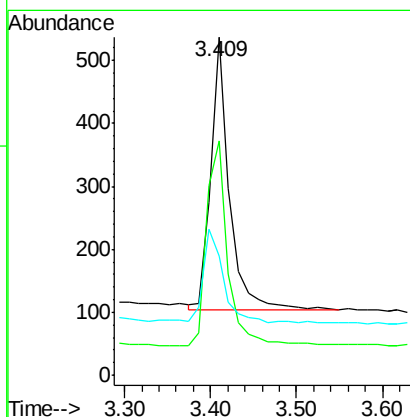
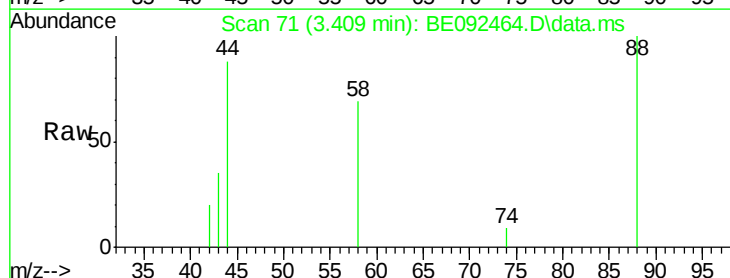
Tgt Ion: 88 Resp: 662

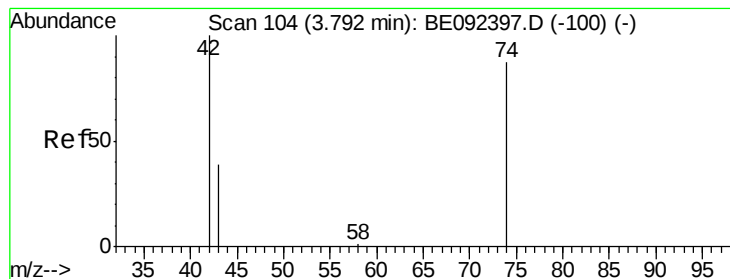
Ion Ratio Lower Upper

88 100

58 83.7 63.6 95.4

43 34.7 28.0 42.0





#3

n-Nitrosodimethylamine

Concen: 0.49 ng

RT: 3.791 min Scan# 10

Delta R.T. -0.011 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

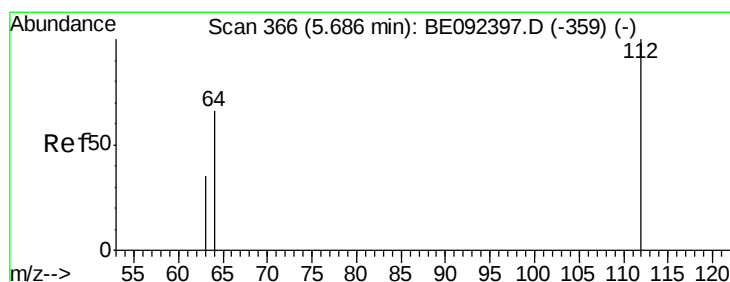
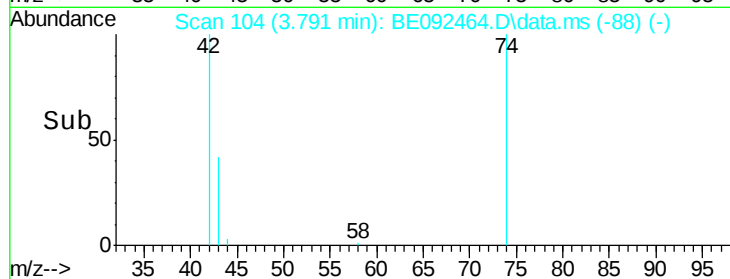
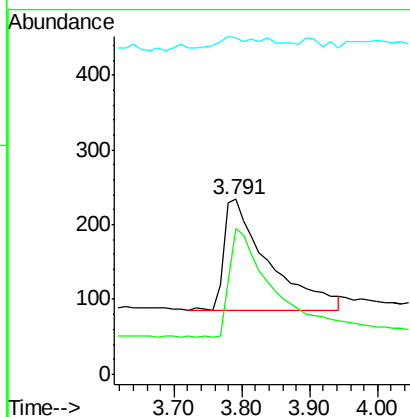
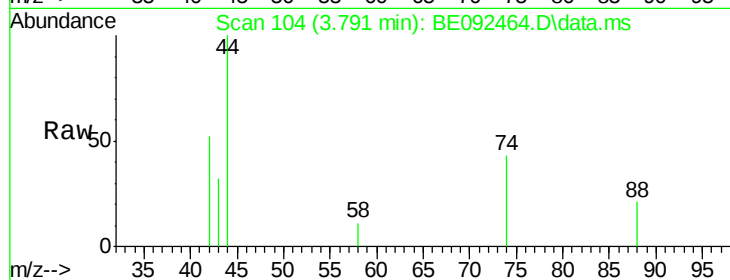
Tot Ion: 42 Resp: 673

Ion Ratio Lower Upper

42 100

74 98.1 86.0 129.0

44 5.5 5.1 7.7



#4

2-Fluorophenol

Concen: 0.40 ng

RT: 5.682 min Scan# 365

Delta R.T. -0.004 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

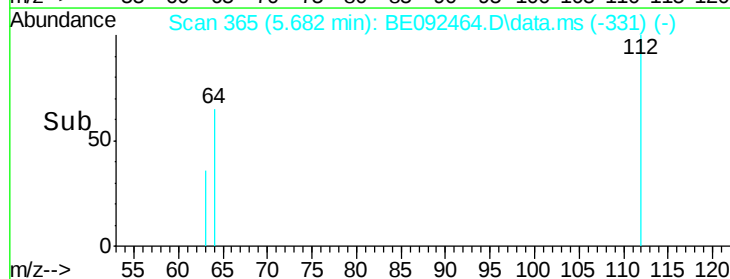
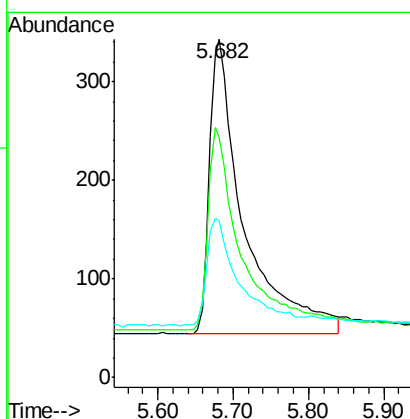
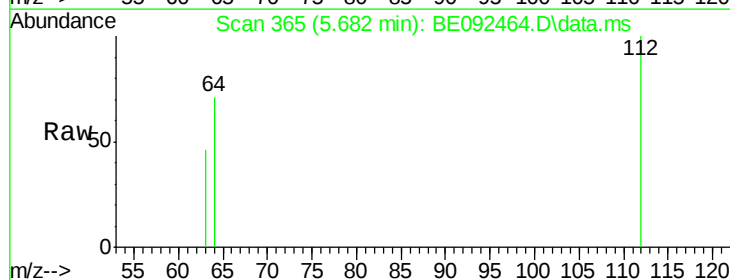
Tgt Ion: 112 Resp: 940

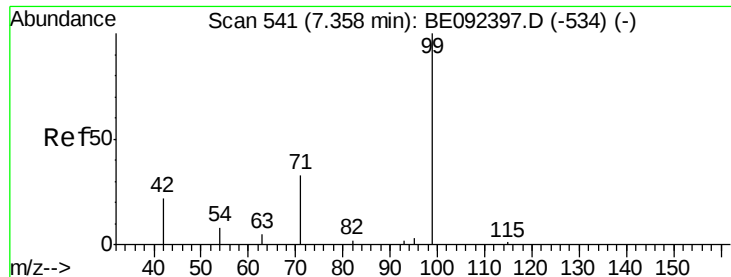
Ion Ratio Lower Upper

112 100

64 68.7 53.5 80.3

63 35.4 27.9 41.9





#5

Phenol-d6

Concen: 0.36 ng

RT: 7.359 min Scan# 541

Delta R.T. 0.001 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

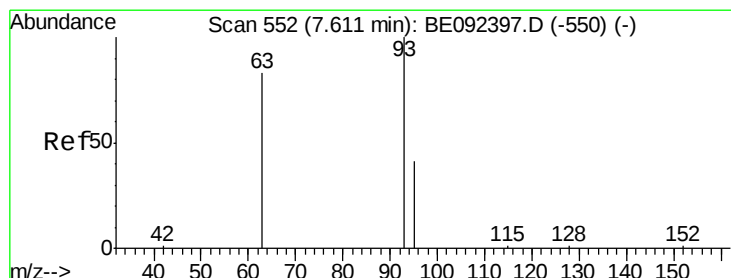
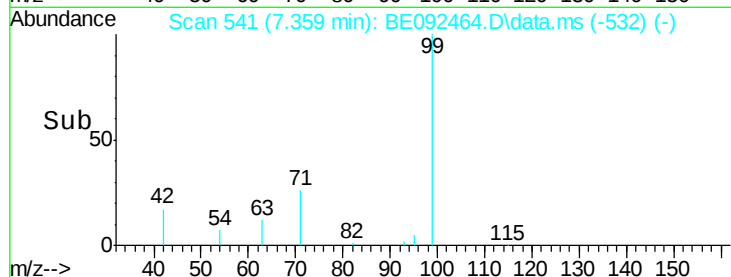
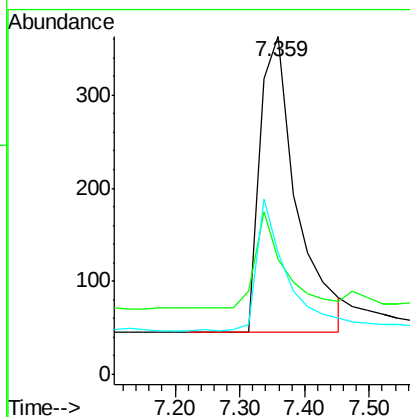
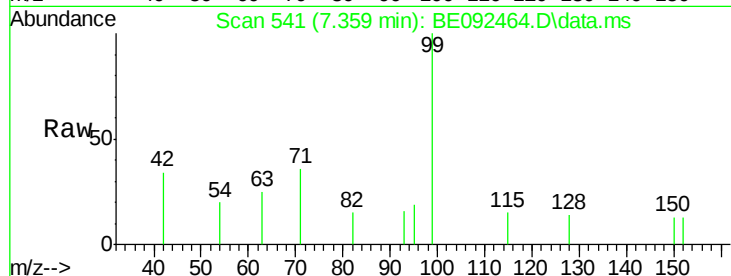
Tot Ion: 99 Resp: 1267

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

71 0.0 30.6 45.8#



#6

bis(2-Chloroethyl)ether

Concen: 0.42 ng

RT: 7.590 min Scan# 551

Delta R.T. -0.021 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

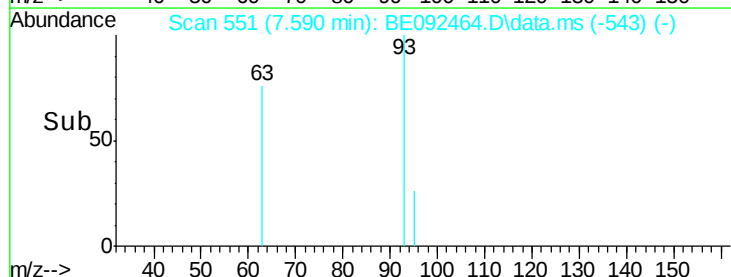
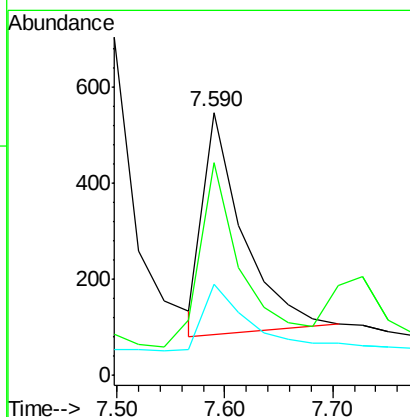
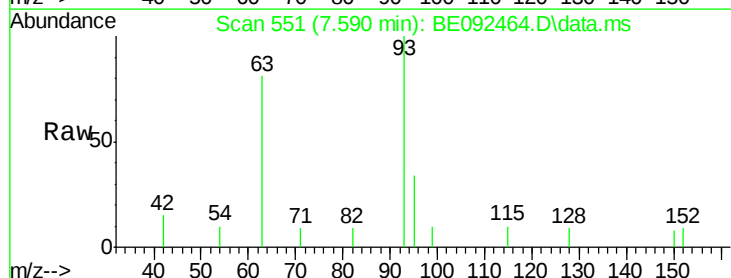
Tgt Ion: 93 Resp: 1198

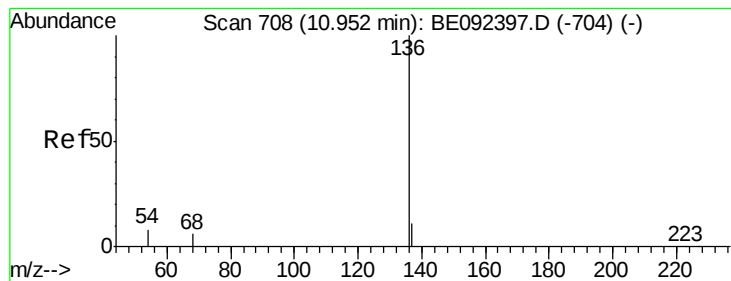
Ion Ratio Lower Upper

93 100

63 89.5 71.6 107.4

95 35.6 24.0 36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.952 min Scan# 70

Delta R.T. -0.000 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 67498

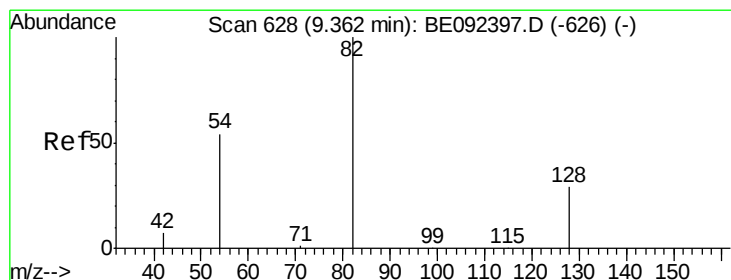
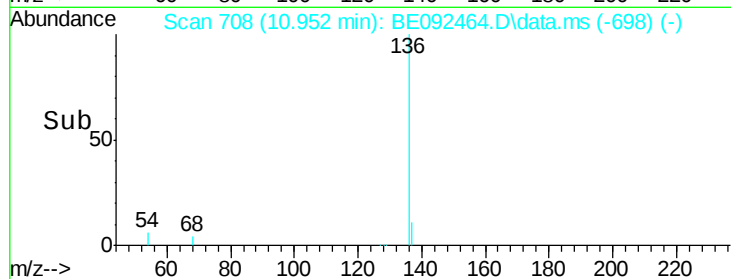
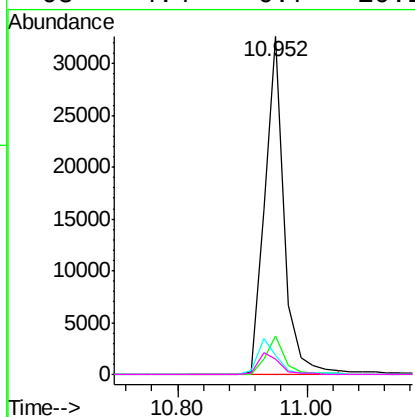
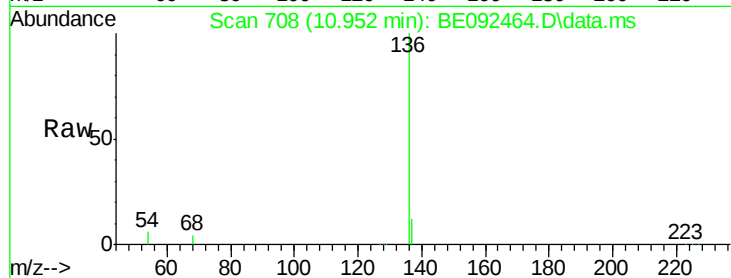
Ion Ratio Lower Upper

136 100

137 11.5 8.2 12.4

54 5.8 9.6 14.4#

68 4.4 6.7 10.1#



#8

Nitrobenzene-d5

Concen: 0.44 ng

RT: 9.363 min Scan# 628

Delta R.T. 0.001 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

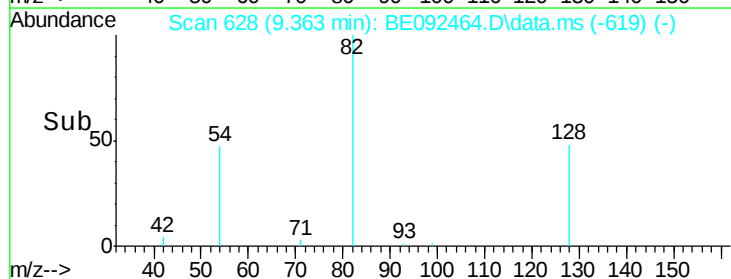
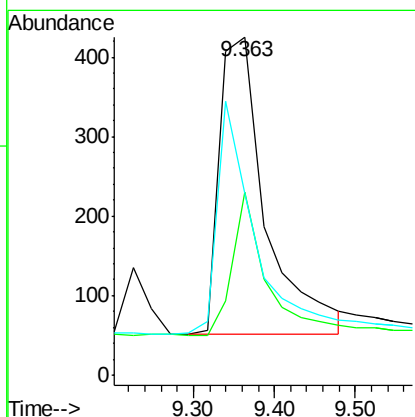
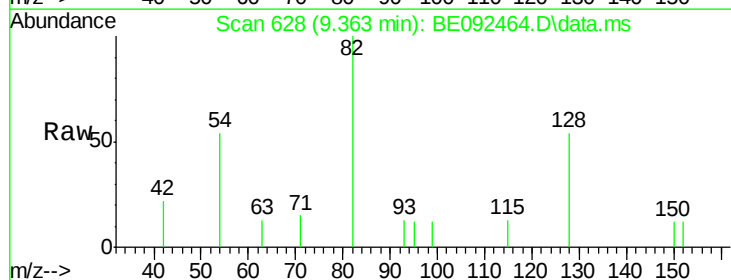
Tgt Ion: 82 Resp: 1483

Ion Ratio Lower Upper

82 100

128 54.1 39.0 58.4

54 53.6 44.8 67.2





#9

Naphthalene

Concen: 0.40 ng

RT: 10.990 min Scan# 711

Delta R.T. -0.020 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

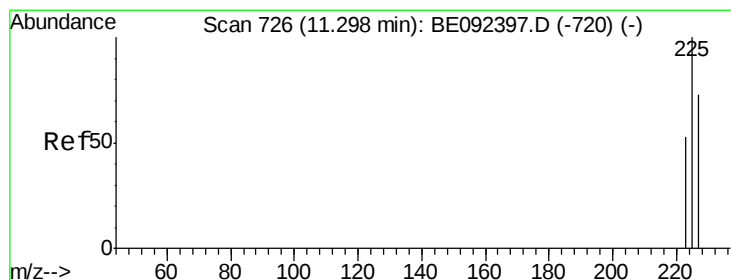
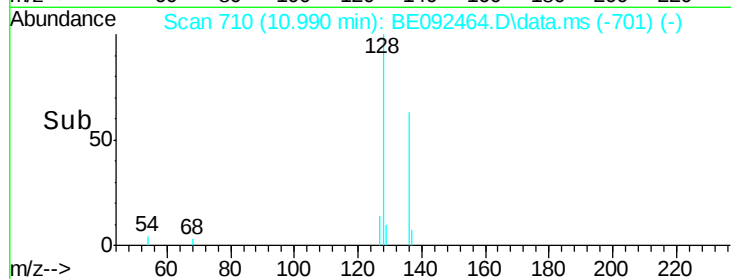
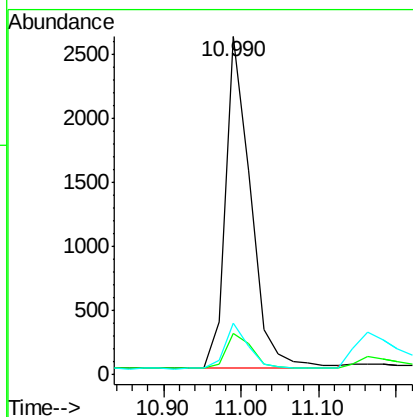
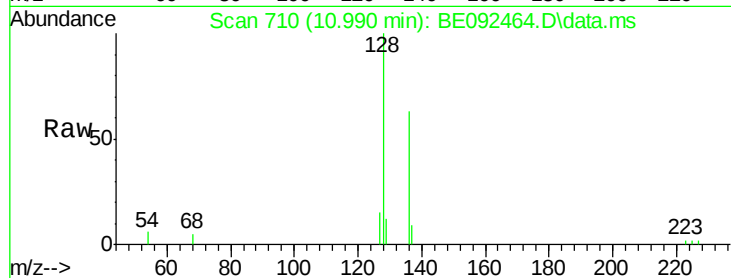
Tot Ion:128 Resp: 5796

Ion Ratio Lower Upper

128 100

129 12.0 11.2 16.8

127 15.1 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.38 ng

RT: 11.278 min Scan# 725

Delta R.T. -0.020 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

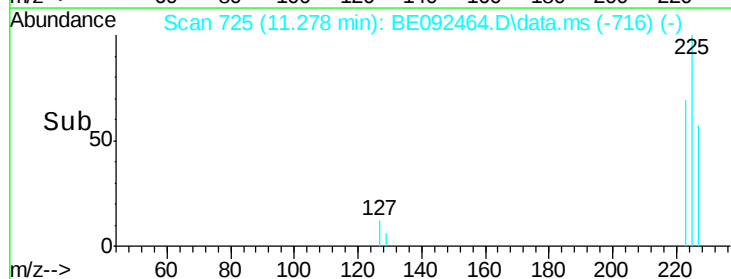
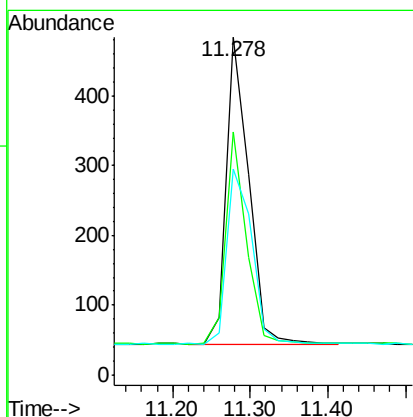
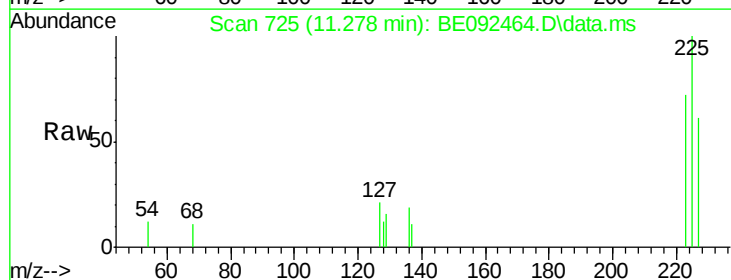
Tgt Ion:225 Resp: 883

Ion Ratio Lower Upper

225 100

223 64.8 50.6 76.0

227 63.6 51.4 77.0





#11

2-Methylnaphthalene

Concen: 0.39 ng

RT: 12.636 min Scan# 81

Delta R.T. -0.012 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

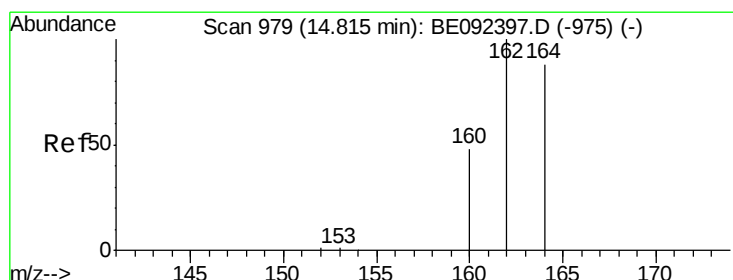
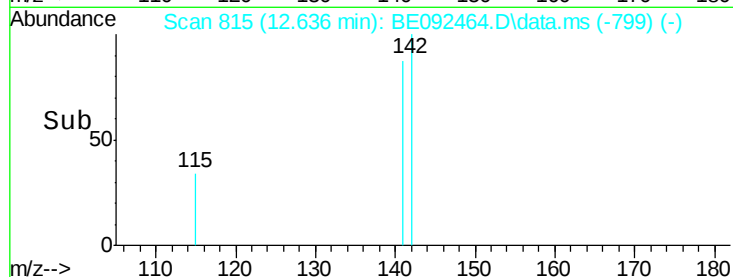
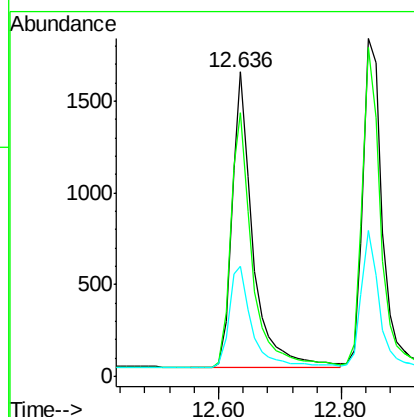
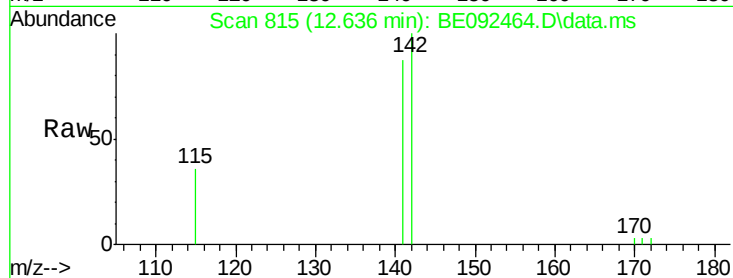
Tot Ion:142 Resp: 3759

Ion Ratio Lower Upper

142 100

141 86.6 73.7 110.5

115 36.0 34.0 51.0



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.816 min Scan# 980

Delta R.T. 0.000 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

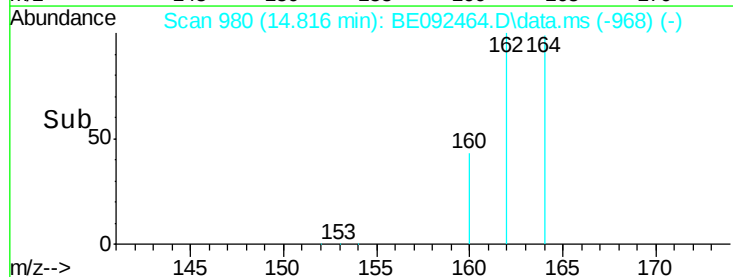
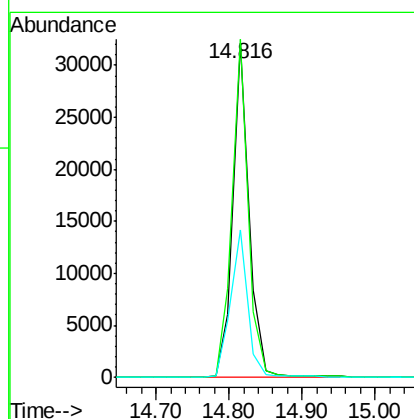
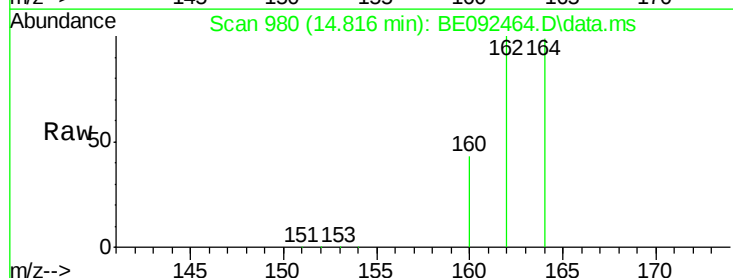
Tgt Ion:164 Resp: 48763

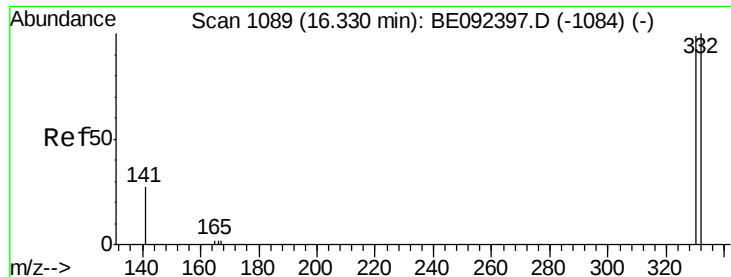
Ion Ratio Lower Upper

164 100

162 101.1 71.4 107.0

160 44.0 27.4 41.2#

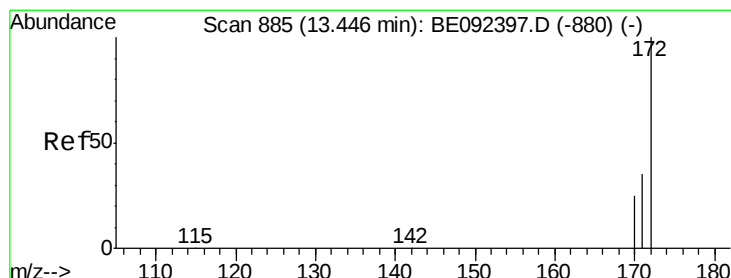
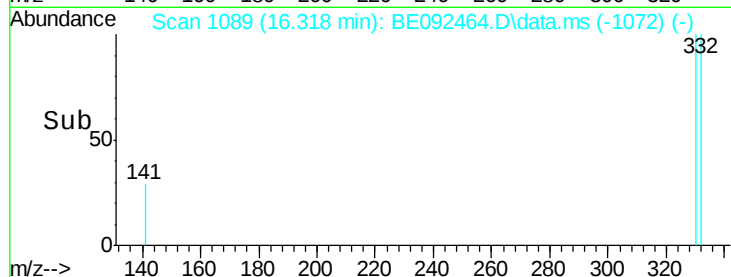
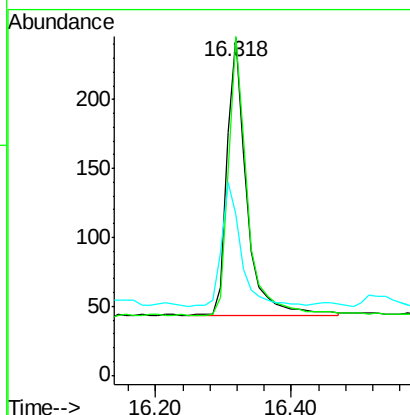
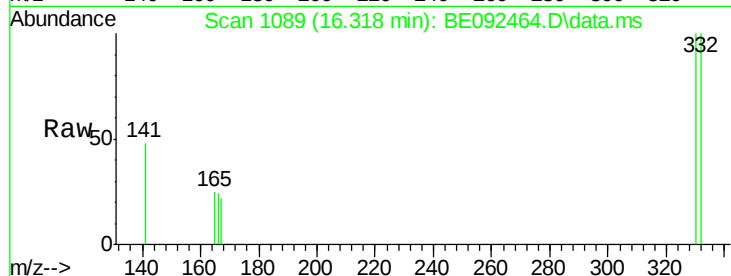




#13
 2,4,6-Tribromophenol
 Concen: 0.40 ng
 RT: 16.318 min Scan# 1089
 Delta R.T. 0.000 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

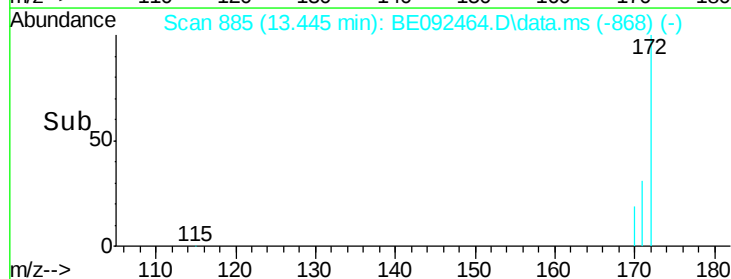
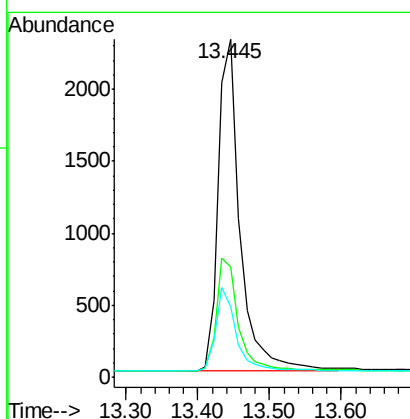
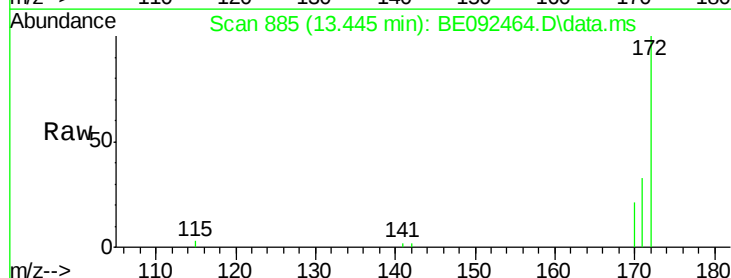
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 415
 Ion Ratio Lower Upper
 330 100
 332 97.1 75.4 113.0
 141 44.1 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.42 ng
 RT: 13.445 min Scan# 885
 Delta R.T. -0.000 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

Tgt Ion:172 Resp: 4878
 Ion Ratio Lower Upper
 172 100
 171 32.7 30.1 45.1
 170 21.0 21.8 32.6#





#15

Acenaphthylene

Concen: 0.39 ng

RT: 14.526 min Scan# 96

Delta R.T. 0.000 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

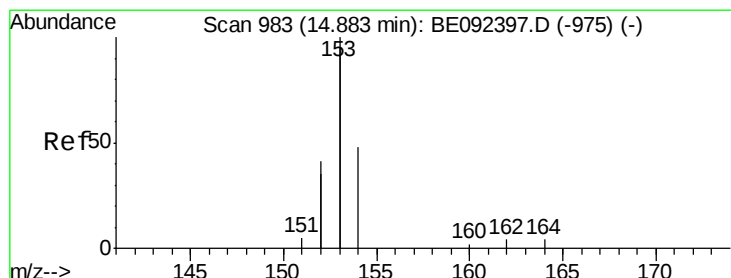
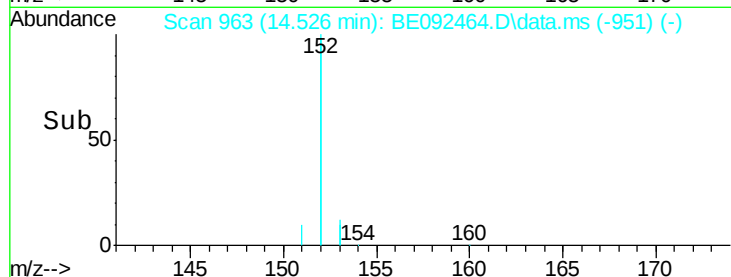
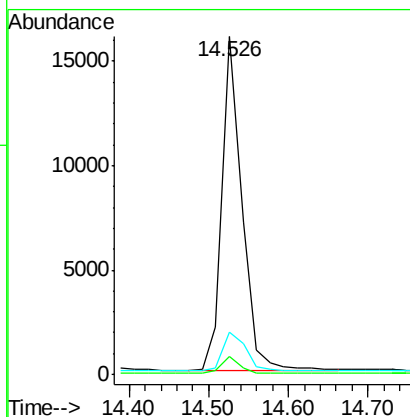
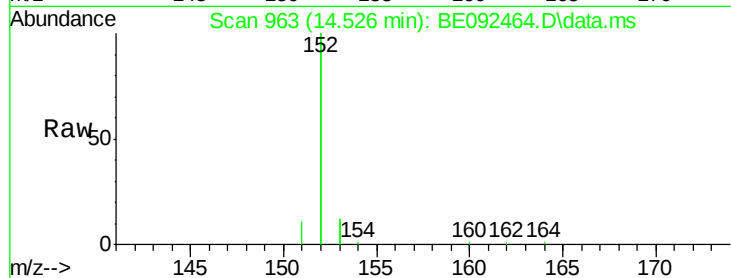
Tot Ion:152 Resp: 27621

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 13.2 10.4 15.6



#16

Acenaphthene

Concen: 0.41 ng

RT: 14.884 min Scan# 984

Delta R.T. 0.000 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

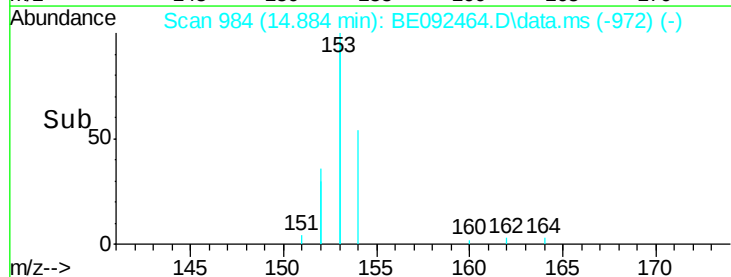
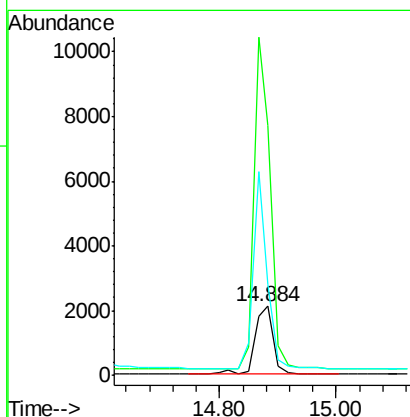
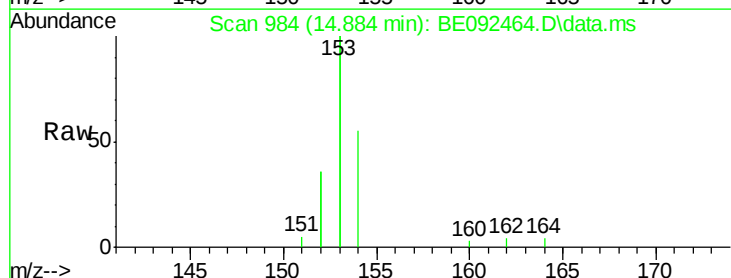
Tgt Ion:154 Resp: 4512

Ion Ratio Lower Upper

154 100

153 443.6 350.8 526.2

152 224.4 171.1 256.7

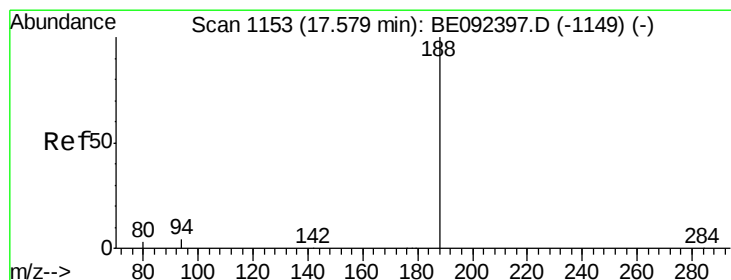
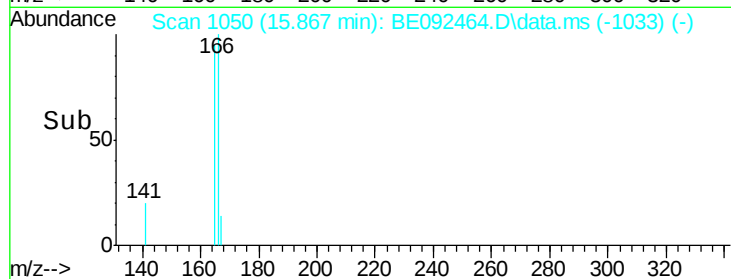
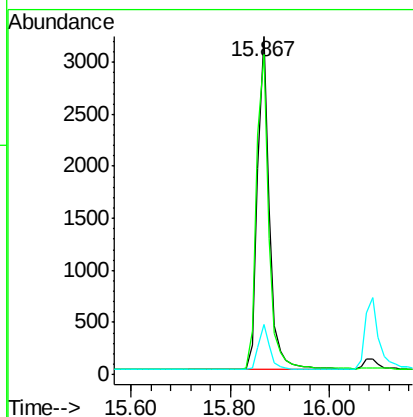
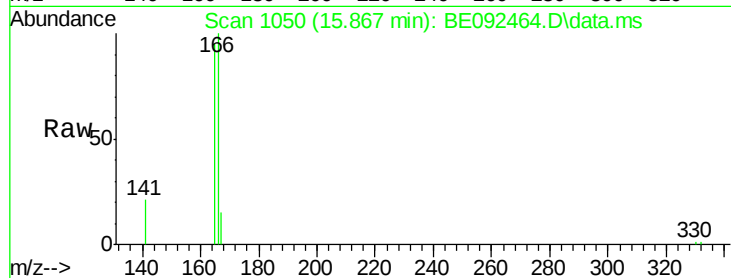




#17
Fluorene
 Concen: 0.39 ng
 RT: 15.867 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

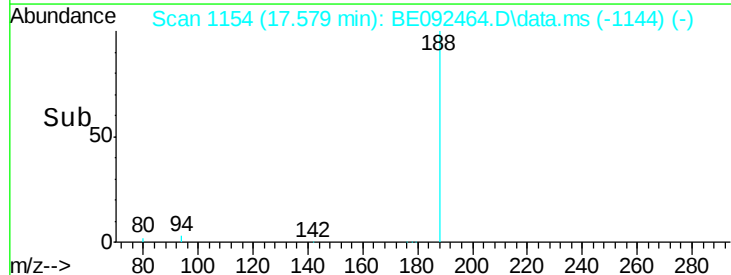
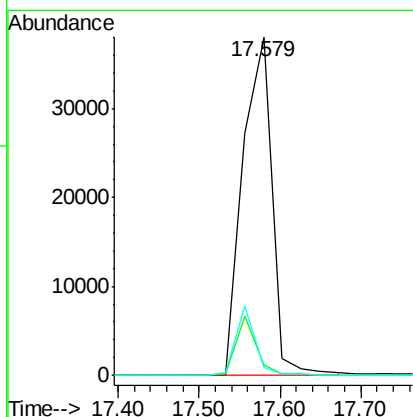
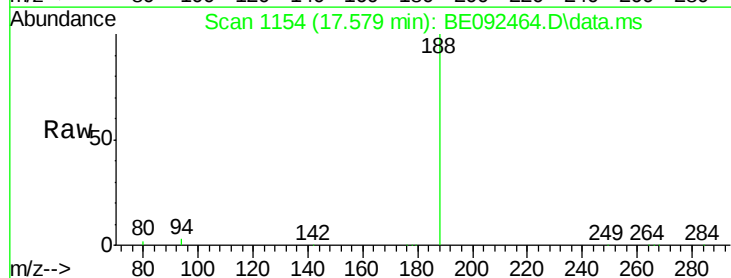
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:166 Resp: 5452
 Ion Ratio Lower Upper
 166 100
 165 98.4 78.2 117.4
 167 13.4 11.0 16.4



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.579 min Scan# 1154
 Delta R.T. 0.023 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

Tgt Ion:188 Resp: 94430
 Ion Ratio Lower Upper
 188 100
 94 2.9 3.2 4.8#
 80 2.4 2.6 3.8#

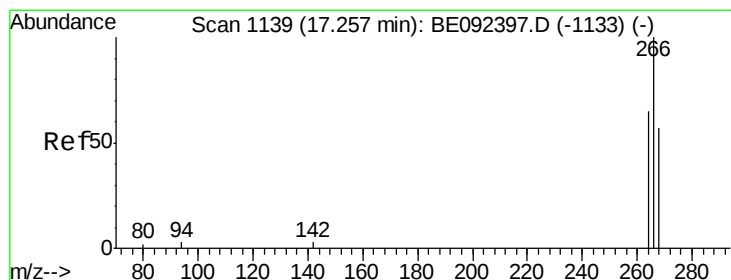
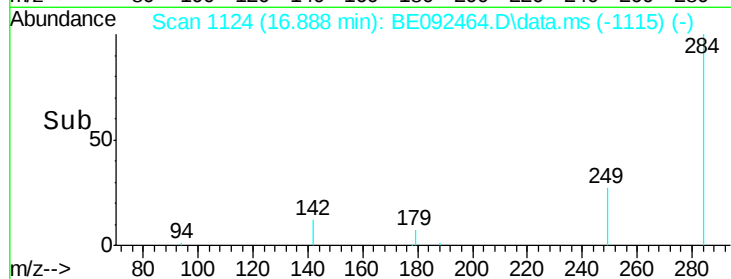
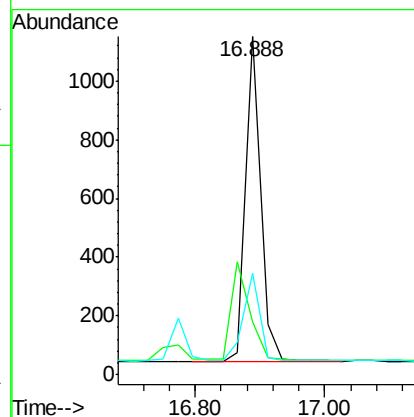
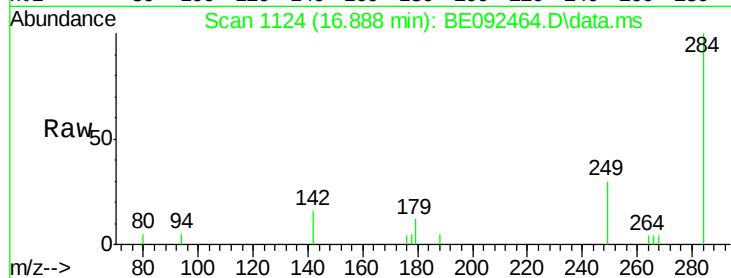




#19
Hexachlorobenzene
Concen: 0.44 ng
RT: 16.888 min Scan# 111
Delta R.T. -0.000 min
Lab File: BE092464.D
Acq: 21 Oct 2016 11:51

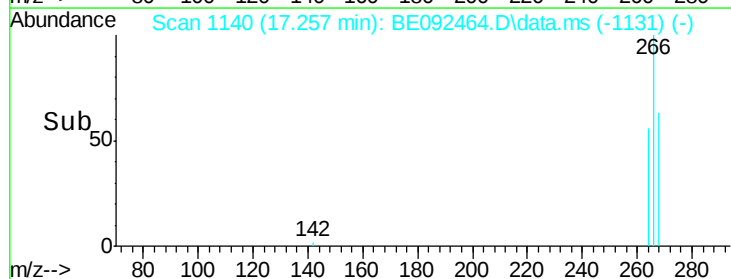
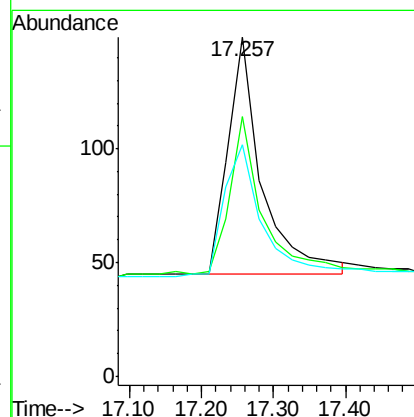
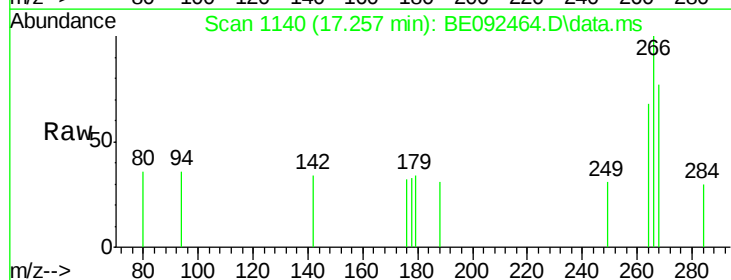
Instrument :
BNA_E
ClientSampleId :

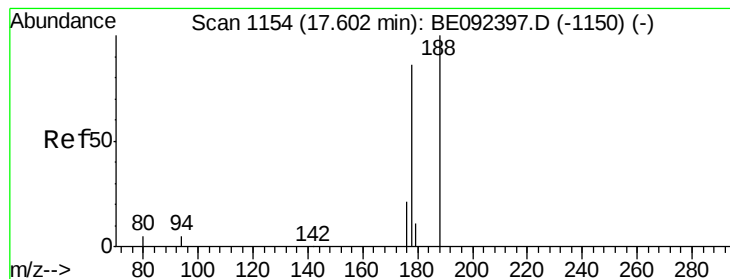
Tot Ion:284 Resp: 1776
Ion Ratio Lower Upper
284 100
142 0.0 29.1 43.7#
249 29.5 27.9 41.9



#20
Pentachlorophenol
Concen: 0.40 ng
RT: 17.257 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BE092464.D
Acq: 21 Oct 2016 11:51

Tgt Ion:266 Resp: 339
Ion Ratio Lower Upper
266 100
268 76.5 62.5 93.7
264 68.5 57.2 85.8





#21

Phenanthrene

Concen: 0.46 ng

RT: 17.602 min Scan# 1154

Delta R.T. 0.000 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

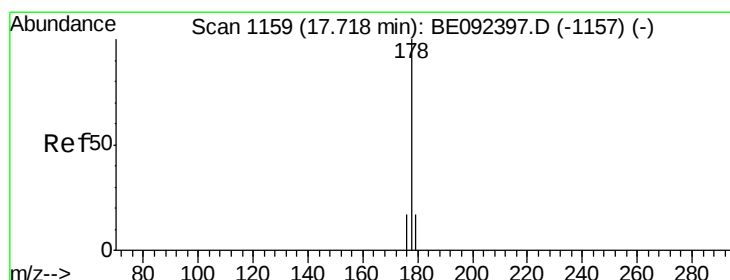
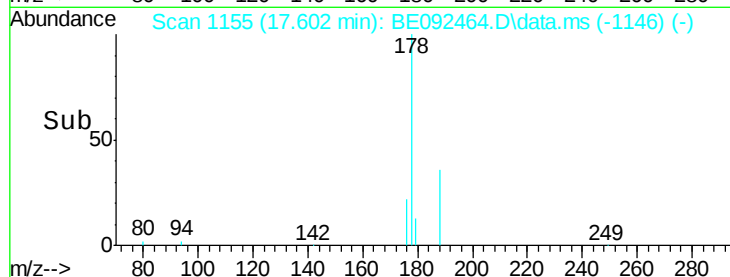
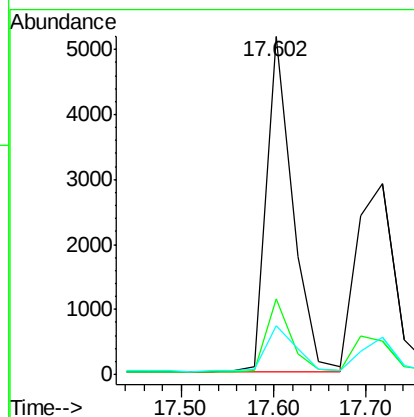
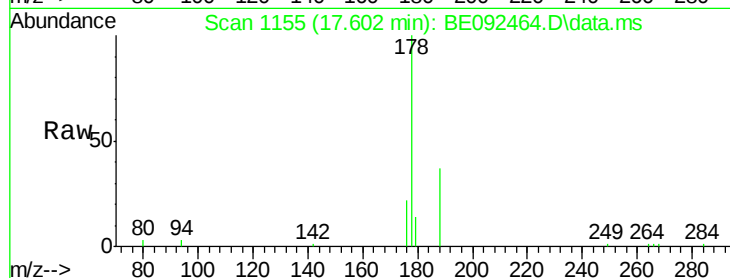
Tot Ion:178 Resp: 9987

Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

179 15.8 16.0 24.0#



#22

Anthracene

Concen: 0.47 ng

RT: 17.602 min Scan# 1155

Delta R.T. -0.093 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

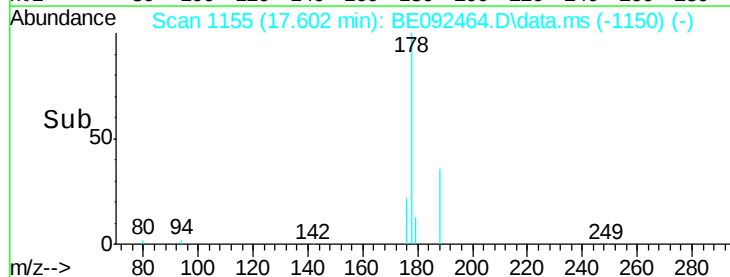
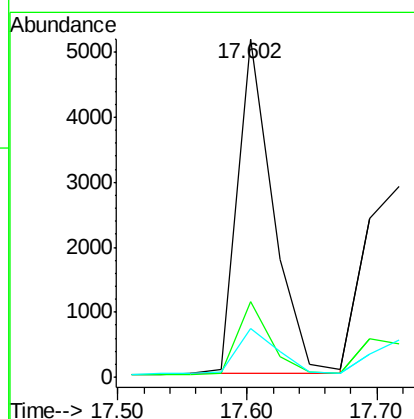
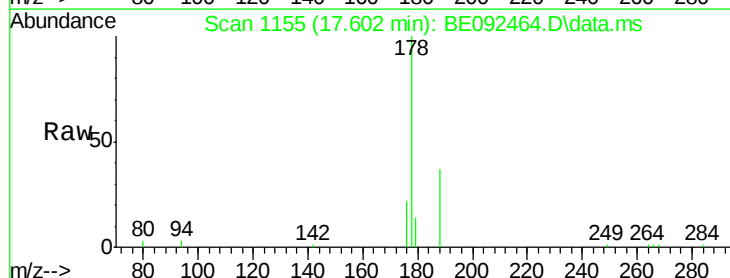
Tgt Ion:178 Resp: 9855

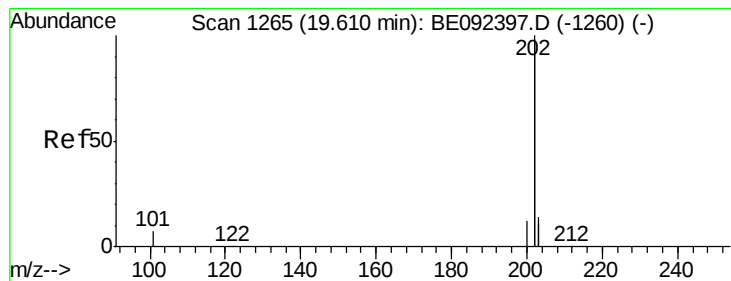
Ion Ratio Lower Upper

178 100

176 20.3 15.0 22.4

179 14.8 12.2 18.2





#23

Fluoranthene

Concen: 0.40 ng

RT: 19.610 min Scan# 12

Delta R.T. -0.001 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

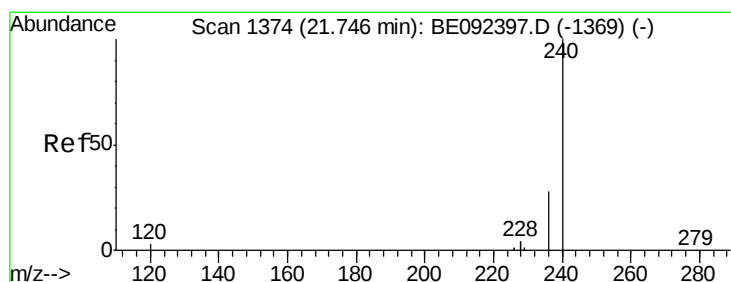
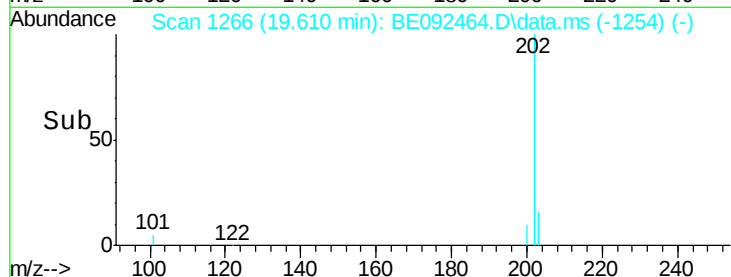
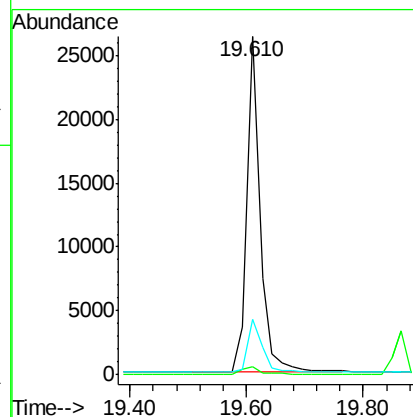
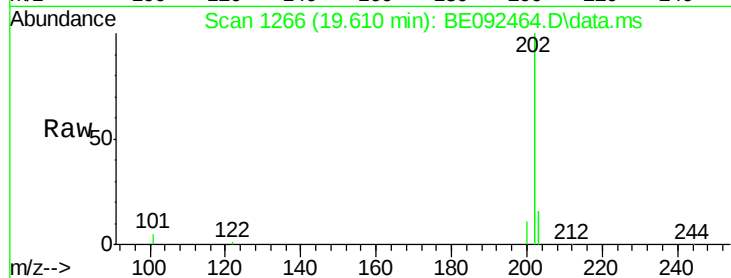
Tot Ion:202 Resp: 41474

Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

203 17.2 13.7 20.5



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.746 min Scan# 1375

Delta R.T. -0.001 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

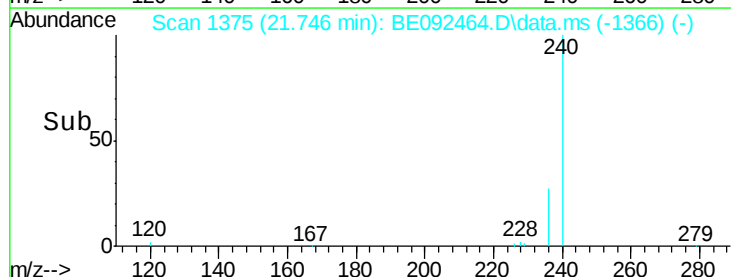
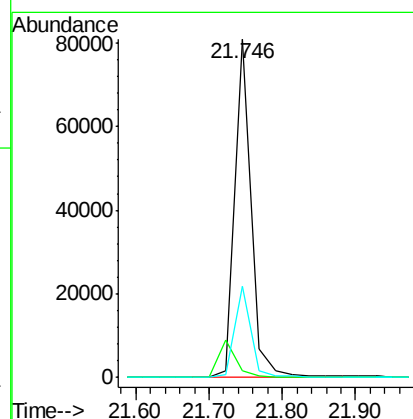
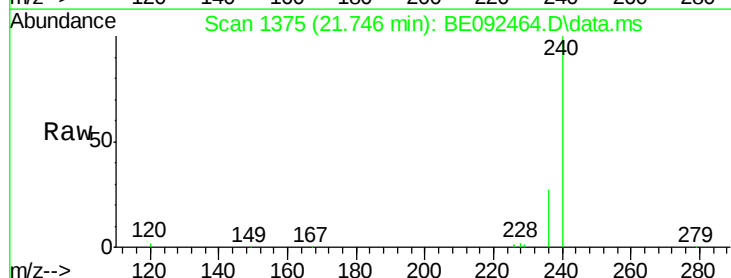
Tgt Ion:240 Resp: 124853

Ion Ratio Lower Upper

240 100

120 2.0 2.6 4.0#

236 27.0 24.6 37.0

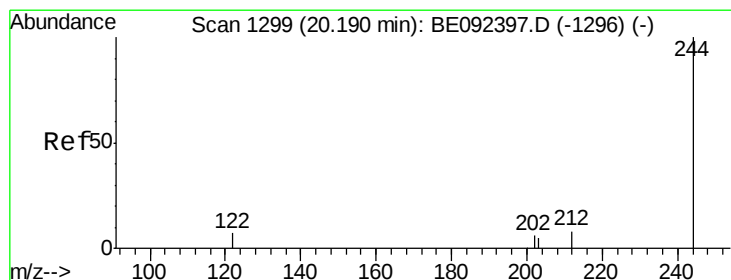
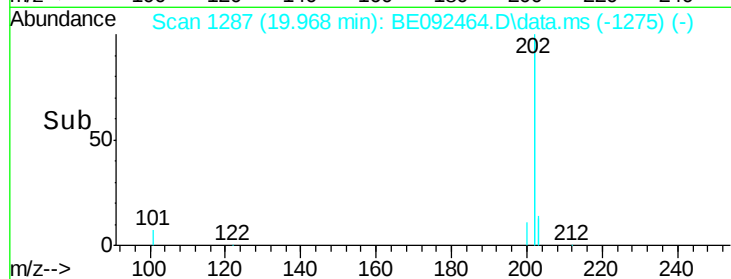
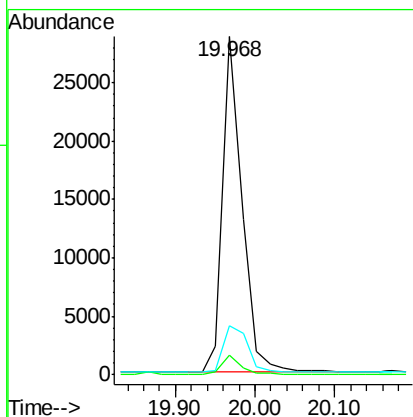
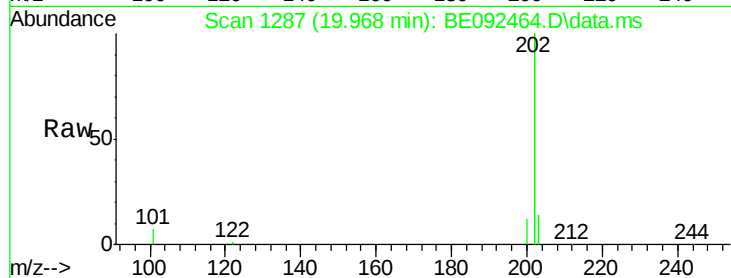




#25
 Pvrene
 Concen: 0.45 ng
 RT: 19.968 min Scan# 12
 Delta R.T. -0.001 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

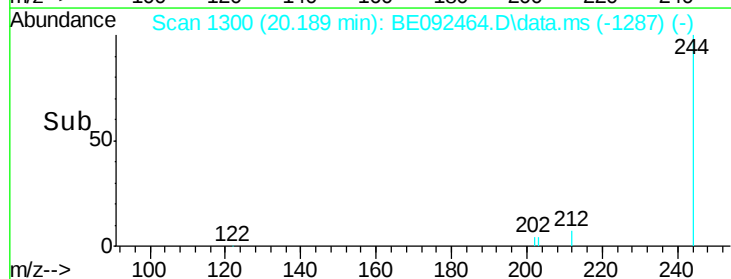
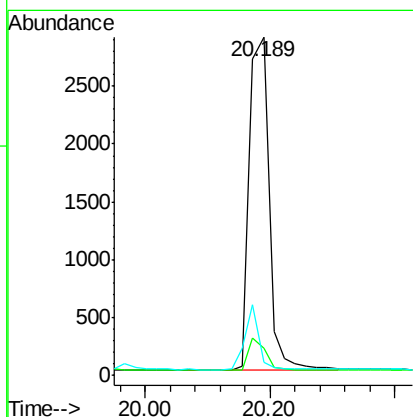
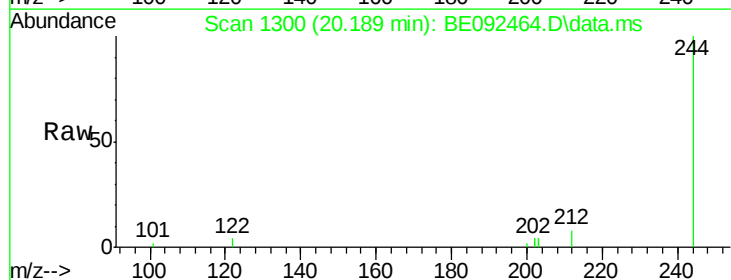
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:202 Resp: 48286
 Ion Ratio Lower Upper
 202 100
 200 5.3 4.2 6.4
 203 17.2 13.9 20.9



#26
 Terphenyl-d14
 Concen: 0.41 ng
 RT: 20.189 min Scan# 1300
 Delta R.T. 0.016 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

Tgt Ion:244 Resp: 6328
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.7 10.1
 122 4.0 3.6 5.4

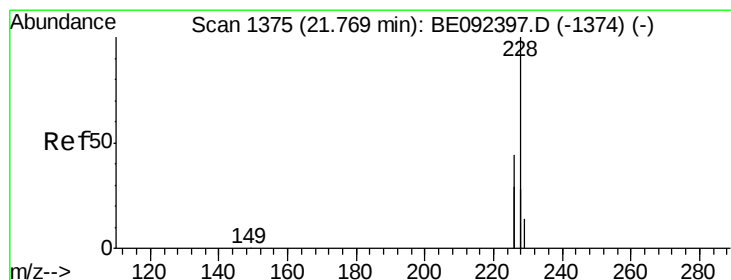
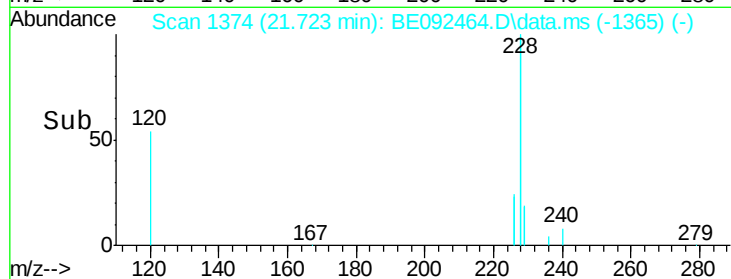
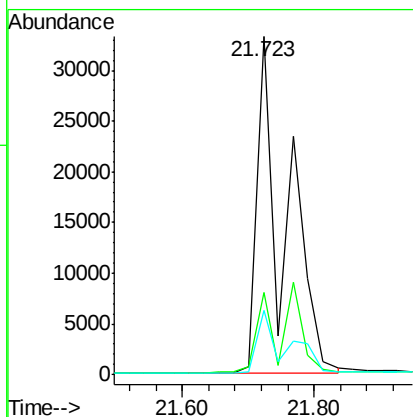
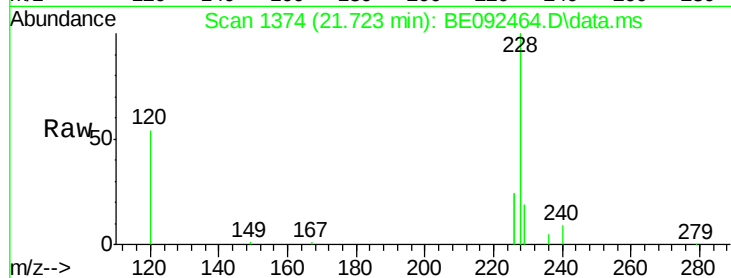




#27
Benzo(a)anthracene
Concen: 0.80 ng
RT: 21.723 min Scan# 1373
Delta R.T. -0.001 min
Lab File: BE092464.D
Acq: 21 Oct 2016 11:51

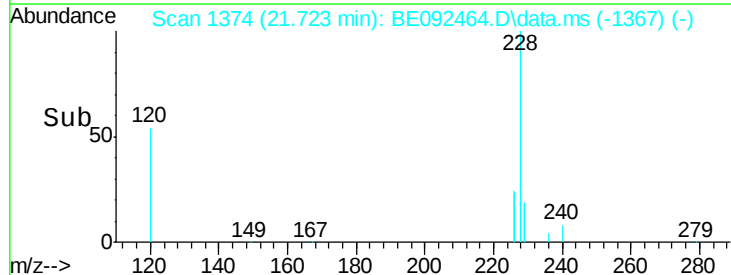
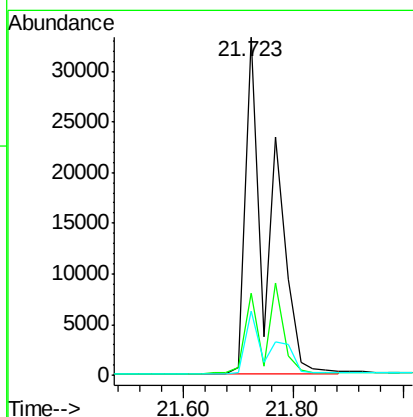
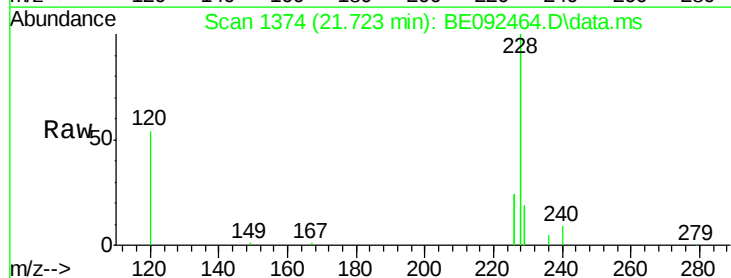
Instrument :
BNA_E
ClientSampleId :

Tot Ion:228 Resp: 97377
Ion Ratio Lower Upper
228 100
226 24.3 23.6 35.4
229 18.8 13.3 19.9



#28
Chrysene
Concen: 0.88 ng
RT: 21.723 min Scan# 1374
Delta R.T. -0.045 min
Lab File: BE092464.D
Acq: 21 Oct 2016 11:51

Tgt Ion:228 Resp: 98148
Ion Ratio Lower Upper
228 100
226 24.3 36.3 54.5#
229 18.8 10.6 16.0#

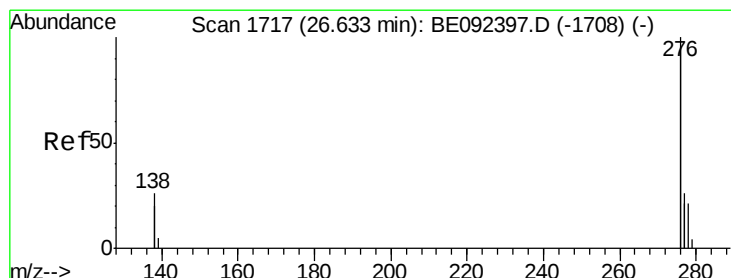
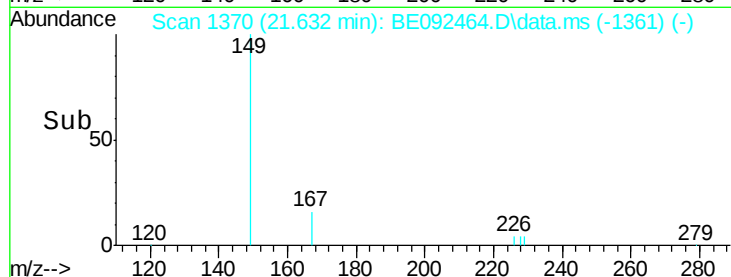
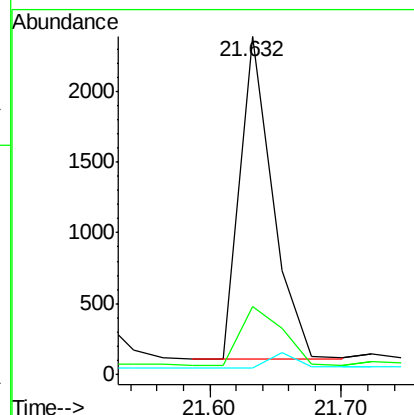
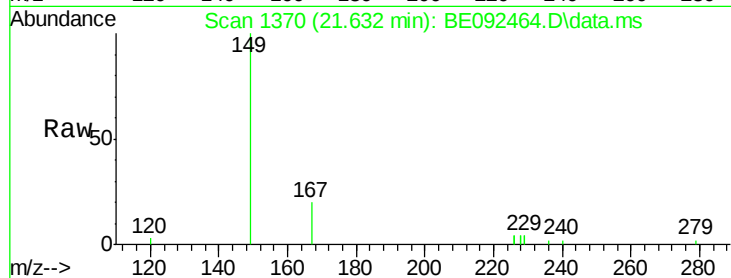




#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.38 ng
 RT: 21.632 min Scan# 1369
 Delta R.T. -0.001 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

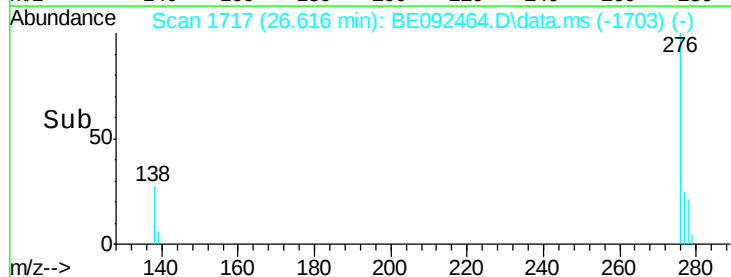
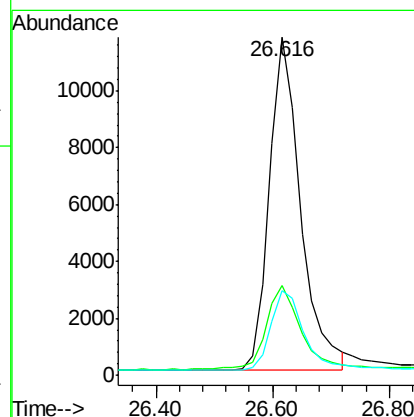
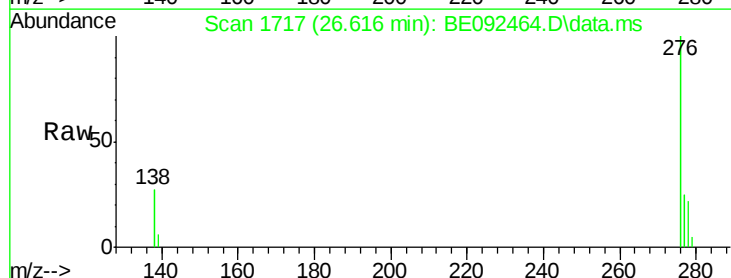
Instrument :
 BNA_E
 ClientSampleId :

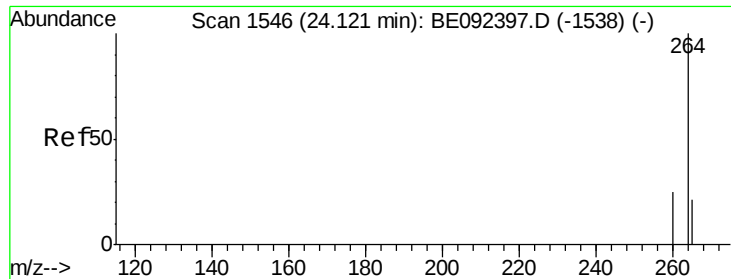
Tot Ion	Ratio	Lower	Upper
149	100		
167	23.3	16.0	24.0
279	0.0	16.0	24.0#



#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.37 ng
 RT: 26.616 min Scan# 1717
 Delta R.T. 0.035 min
 Lab File: BE092464.D
 Acq: 21 Oct 2016 11:51

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	20.3	30.5
277	24.8	19.7	29.5





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.111 min Scan# 15

Delta R.T. 0.024 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

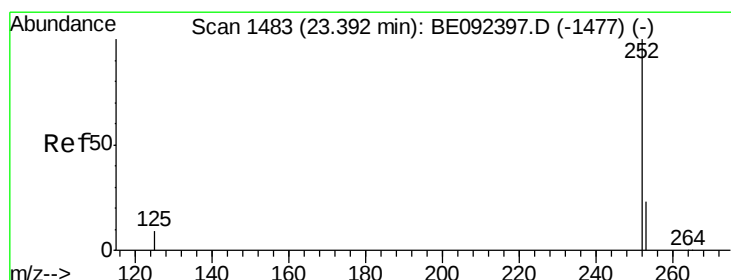
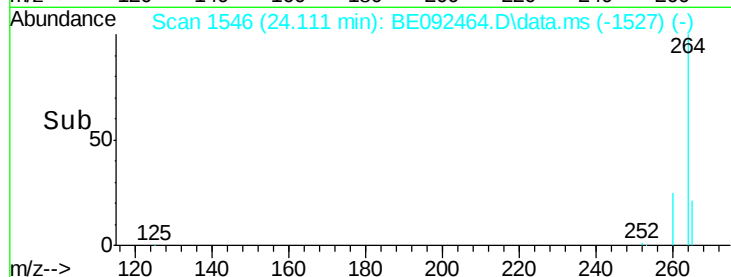
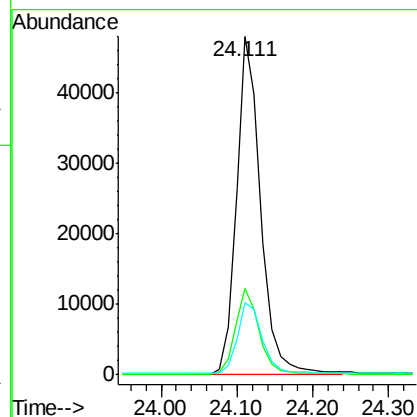
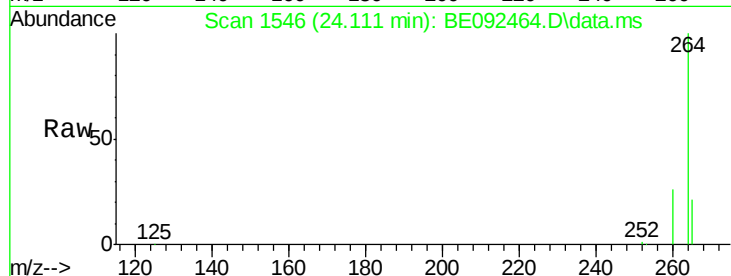
Tot Ion:264 Resp: 106702

Ion Ratio Lower Upper

264 100

260 25.5 20.1 30.1

265 21.3 17.9 26.9



#32

Benzo(b)fluoranthene

Concen: 0.41 ng

RT: 23.382 min Scan# 1483

Delta R.T. 0.024 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

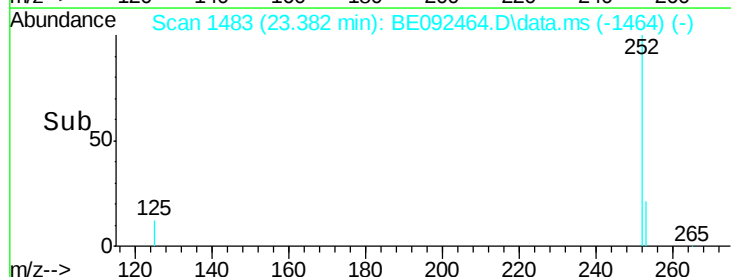
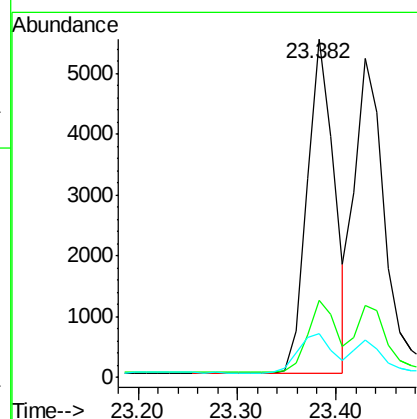
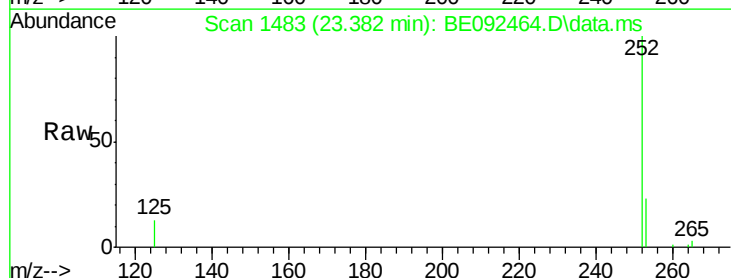
Tgt Ion:252 Resp: 10531

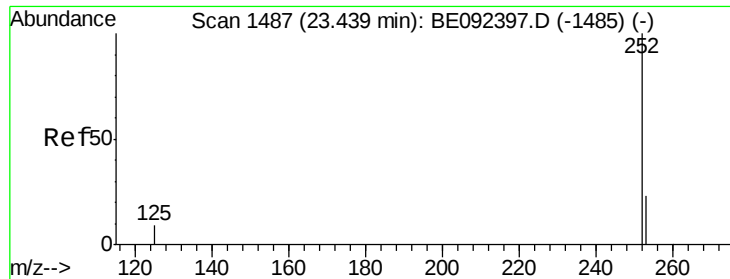
Ion Ratio Lower Upper

252 100

253 22.9 18.7 28.1

125 12.9 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 23.429 min Scan# 14

Delta R.T. 0.024 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

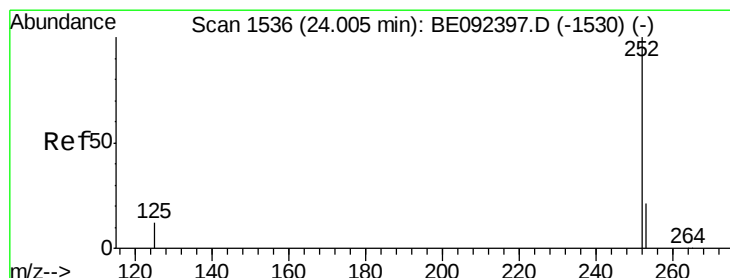
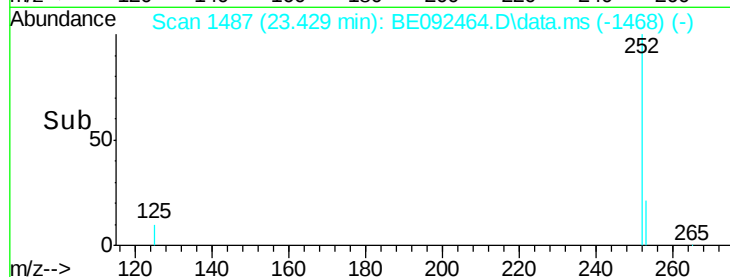
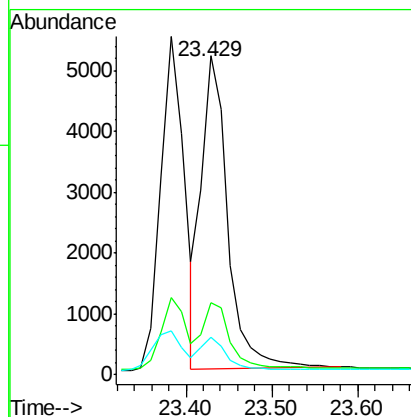
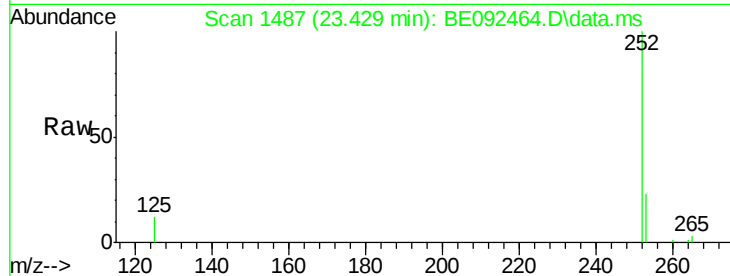
Tot Ion:252 Resp: 10881

Ion Ratio Lower Upper

252 100

253 22.6 20.3 30.5

125 11.7 9.6 14.4



#34

Benzo(a)pyrene

Concen: 0.40 ng

RT: 24.007 min Scan# 1537

Delta R.T. 0.024 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

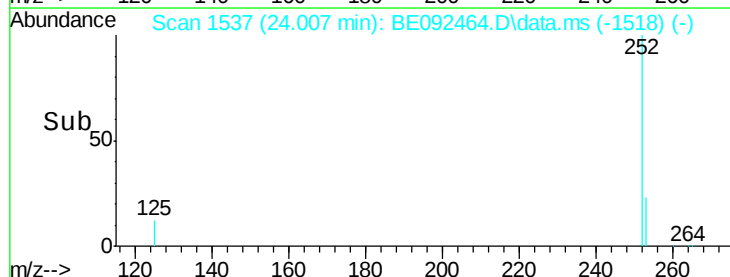
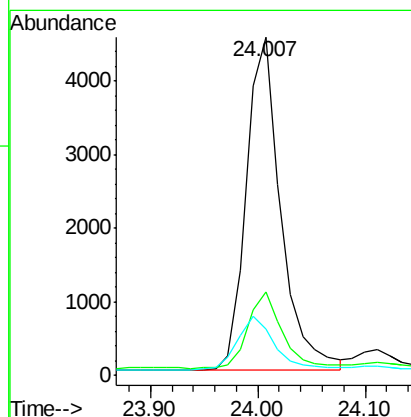
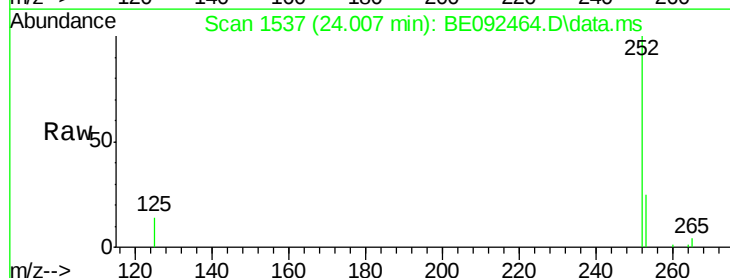
Tgt Ion:252 Resp: 10074

Ion Ratio Lower Upper

252 100

253 24.6 19.0 28.6

125 13.8 11.8 17.8





#35

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 26.633 min Scan# 1718

Delta R.T. 0.035 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Instrument :

BNA_E

ClientSampleId :

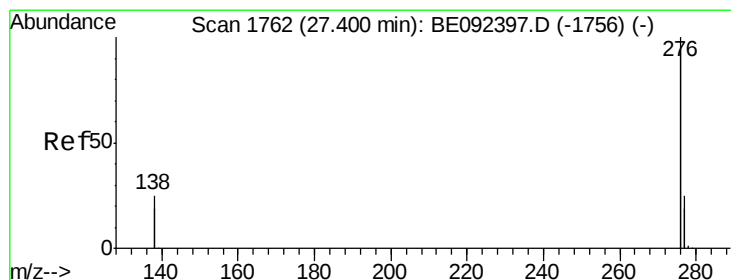
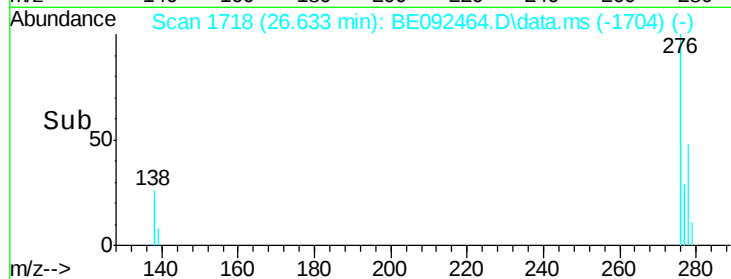
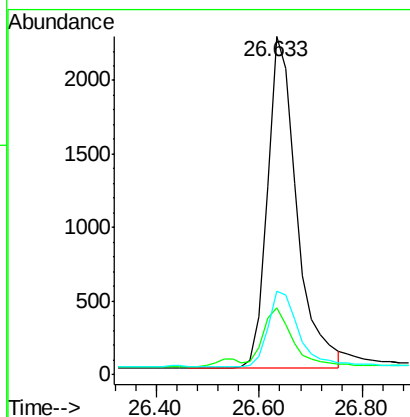
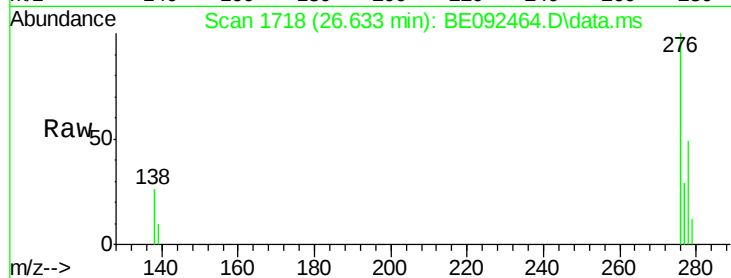
Tot Ion:278 Resp: 8847

Ion Ratio Lower Upper

278 100

139 19.7 13.8 20.8

279 24.5 21.4 32.2



#36

Benzo(g,h,i)perylene

Concen: 0.38 ng

RT: 27.383 min Scan# 1762

Delta R.T. 0.035 min

Lab File: BE092464.D

Acq: 21 Oct 2016 11:51

Tgt Ion:276 Resp: 37799

Ion Ratio Lower Upper

276 100

277 24.3 19.8 29.8

138 25.5 19.8 29.6

