

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE072216\
 Data File : BE092017.D
 Acq On : 22 Jul 2016 22:03
 Operator : UM/SJ
 Sample : H4120-08MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-05-5.0-16.0MSD

Quant Time: Jul 23 01:33:17 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE072216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 22 15:39:27 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	28291	5.00	ng	0.00
8) Naphthalene-d8	10.99	136	135246	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	82860	5.00	ng	0.00
24) Phenanthrene-d10	17.59	188	172807	5.00	ng	0.00
31) Chrysene-d12	21.76	240	246205	5.00	ng	0.00
40) Perylene-d12	24.16	264	197652	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.72	112	32782	5.98	ng	0.00
5) Phenol-d6	7.35	99	30884	3.24	ng	-0.02
9) Nitrobenzene-d5	9.37	82	42809	5.26	ng	-0.02
16) 2,4,6-Tribromophenol	16.35	330	21774	7.58	ng	0.00
17) 2-Fluorobiphenyl	13.47	172	94907	4.36	ng	-0.01
34) Terphenyl-d14	20.20	244	131755	5.33	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.47	88	7646	2.00	ng	# 83
3) n-Nitrosodimethylamine	3.80	42	13656	2.66	ng	82
6) bis(2-Chloroethyl)ether	7.61	93	35610	4.38	ng	97
7) n-Nitroso-di-n-propylamine	9.00	70	32396	4.67	ng	# 98
10) Nitrobenzene	9.40	77	44253	4.04	ng	# 99
11) bis(2-Chloroethoxy)methane	10.40	93	49532	4.86	ng	# 18
12) Naphthalene	11.04	128	115836	3.77	ng	98
13) Hexachlorobutadiene	11.34	225	13806	3.14	ng	98
14) 2-Methylnaphthalene	12.66	142	77870	4.04	ng	99
18) Acenaphthylene	14.56	152	587596	4.61	ng	# 72
19) 2,6-Dinitrotoluene	14.44	165	104794	4.39	ng	# 10
20) Acenaphthene	14.92	154	86165	3.99	ng	# 1
21) 2,4-Dinitrotoluene	15.22	165	147132	4.37	ng	# 1
22) Fluorene	15.90	166	110734	4.30	ng	99
23) 4-Chlorophenyl-phenylether	15.90	204	48653	3.80	ng	96
25) 4-Bromophenyl-phenylether	16.78	248	31162	4.33	ng	97
26) Hexachlorobenzene	16.90	284	29942	4.04	ng	99
27) Pentachlorophenol	17.25	266	32403	7.81	ng	92
28) Phenanthrene	17.63	178	183909	4.12	ng	99
29) Anthracene	17.72	178	178421	4.41	ng	100
30) Fluoranthene	19.63	202	785292	4.40	ng	# 67
32) Benzidine	19.90	184	165	0.20	ng	# 1
33) Pyrene	19.99	202	906547	5.07	ng	# 82
35) Benzo(a)anthracene	21.73	228	611765	11.03	ng	96
36) 3,3'-Dichlorobenzidine	21.67	252	32479	2.75	ng	# 73
37) Chrysene	21.73	228	615568	9.11	ng	93
38) Bis(2-ethylhexyl)phthalate	21.64	149	578305	11.91	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.67	276	1010736	5.45	ng	98
41) Benzo(b)fluoranthene	23.42	252	242274	4.67	ng	97
42) Benzo(k)fluoranthene	23.47	252	216956	4.11	ng	96
43) Benzo(a)pyrene	24.05	252	215549	4.47	ng	96
44) Dibenzo(a,h)anthracene	26.70	278	208435	4.84	ng	97
45) Benzo(g,h,i)perylene	27.45	276	847314	4.80	ng	98

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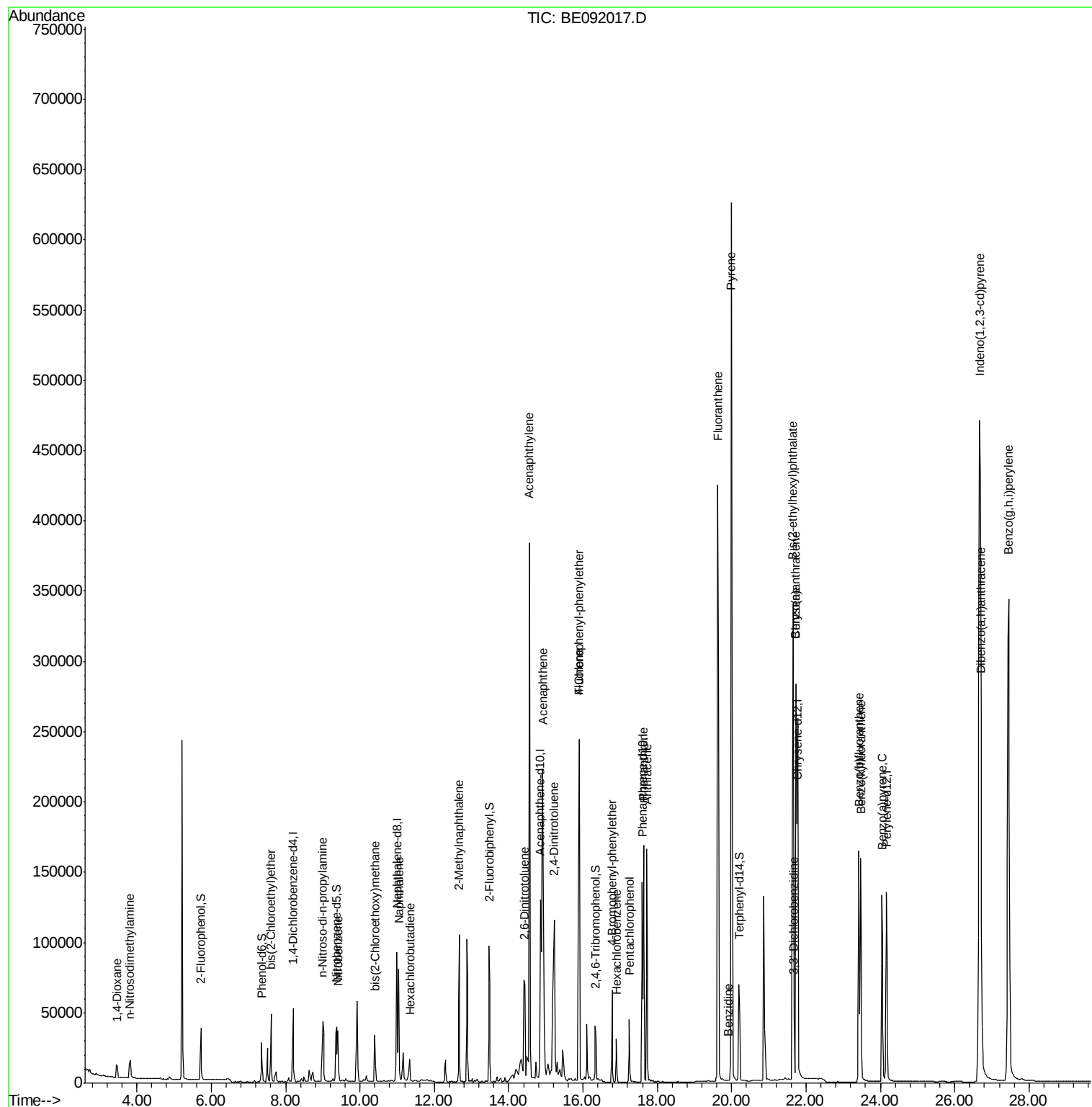
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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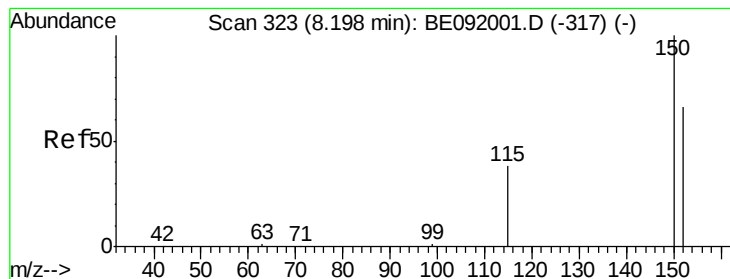
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

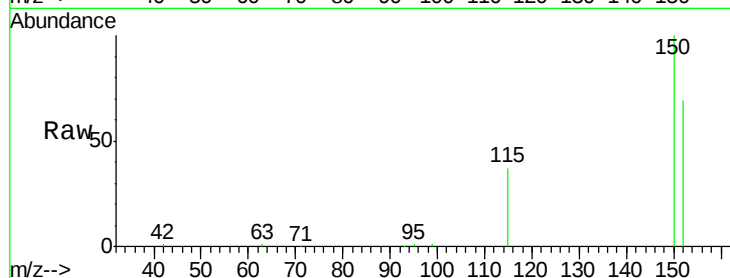
Tgt Ion: 152 Resp: 28291

Ion Ratio Lower Upper

152 100

150 145.3 123.9 185.9

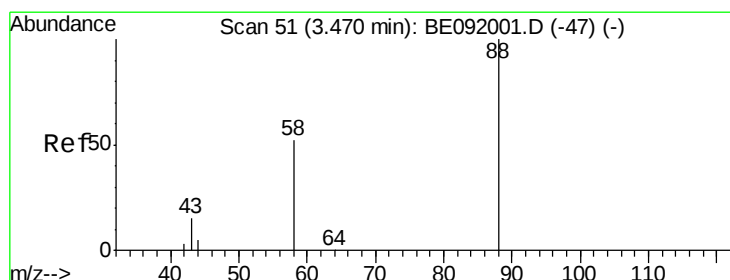
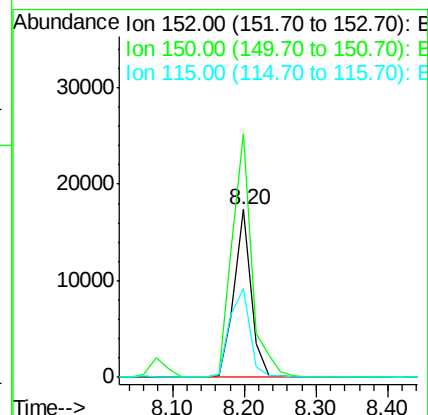
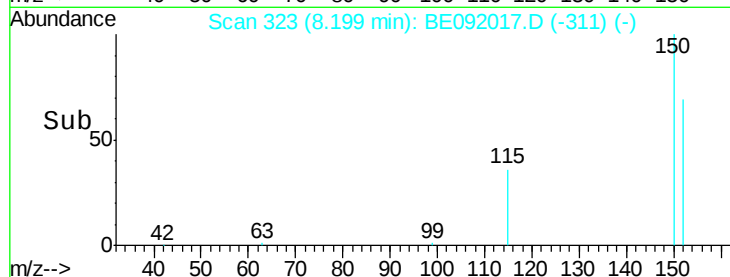
115 53.3 48.3 72.5



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: 2.00 ng

RT: 3.47 min Scan# 51

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

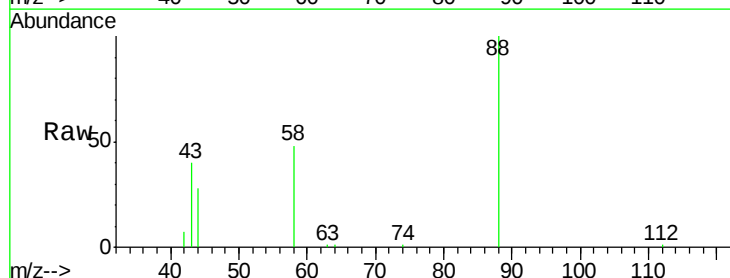
Tgt Ion: 88 Resp: 7646

Ion Ratio Lower Upper

88 100

58 94.0 63.0 94.4

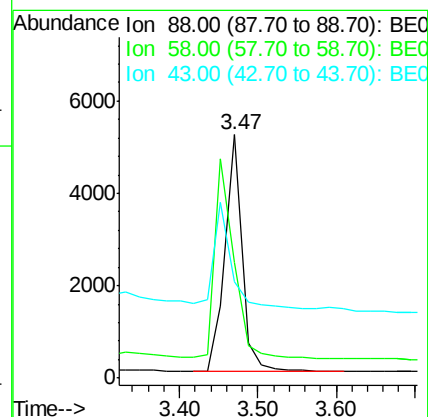
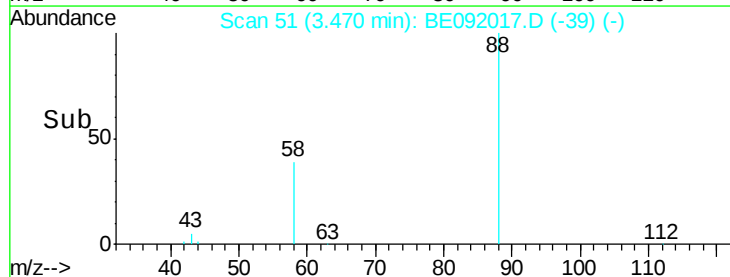
43 45.5 29.1 43.7#

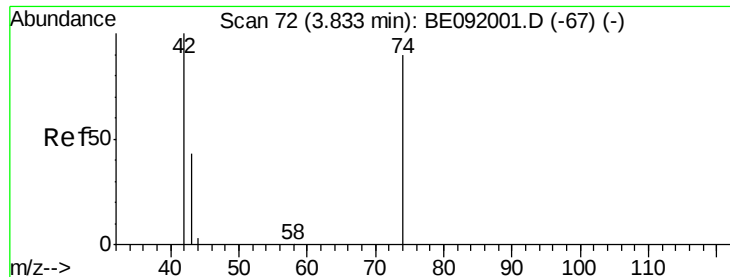


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 2.66 ng

RT: 3.80 min Scan# 70

Delta R.T. -0.03 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

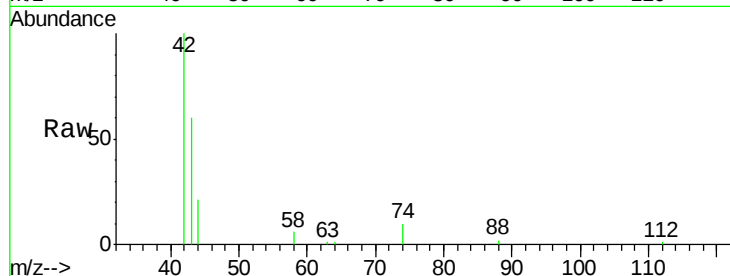
Tgt Ion: 42 Resp: 13656

Ion Ratio Lower Upper

42 100

74 96.3 93.4 140.0

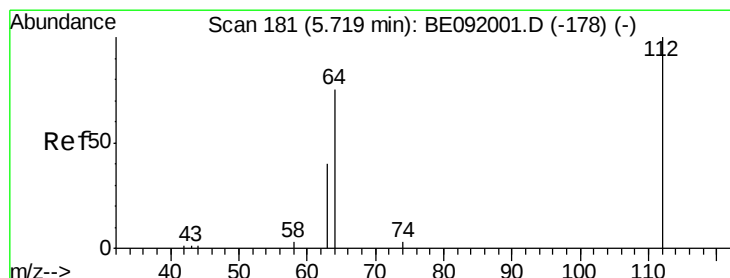
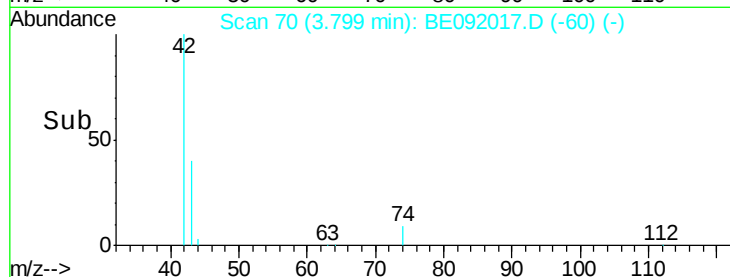
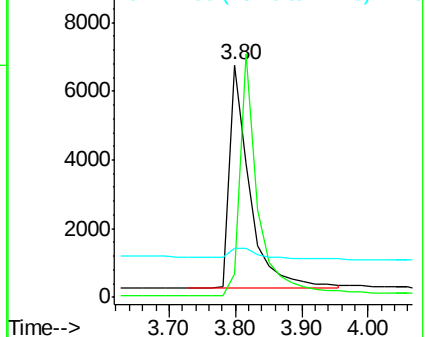
44 7.4 5.0 7.6



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: 5.98 ng

RT: 5.72 min Scan# 181

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

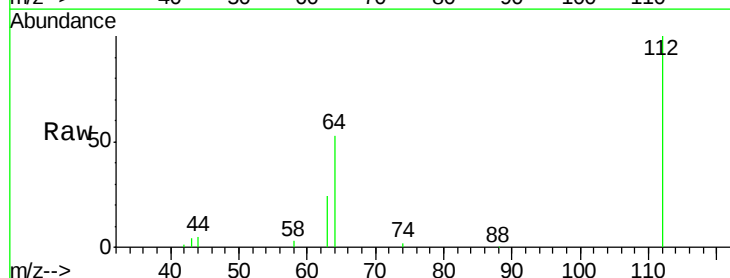
Tgt Ion: 112 Resp: 32782

Ion Ratio Lower Upper

112 100

64 67.8 53.7 80.5

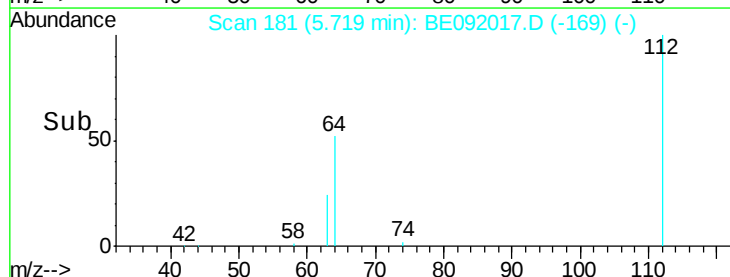
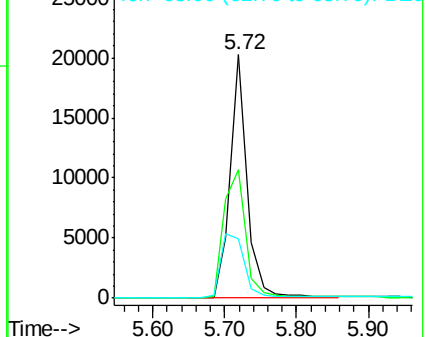
63 36.8 29.5 44.3

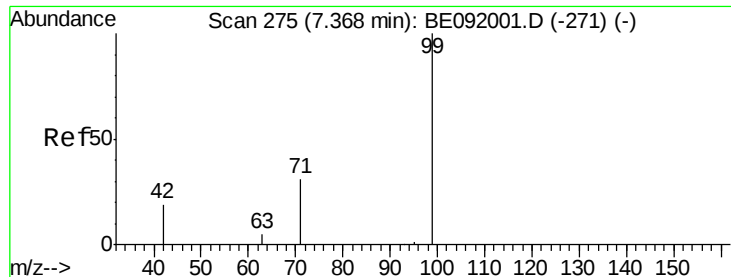


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.24 ng

RT: 7.35 min Scan# 274

Delta R.T. -0.02 min

Lab File: BE092017.D

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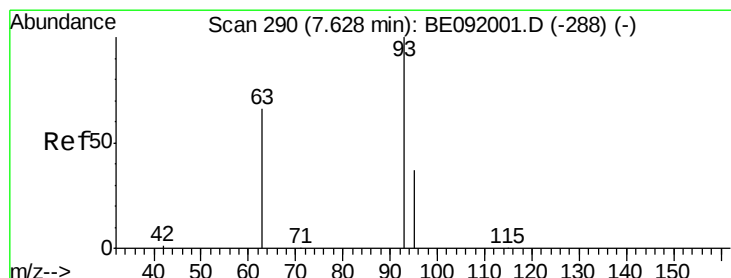
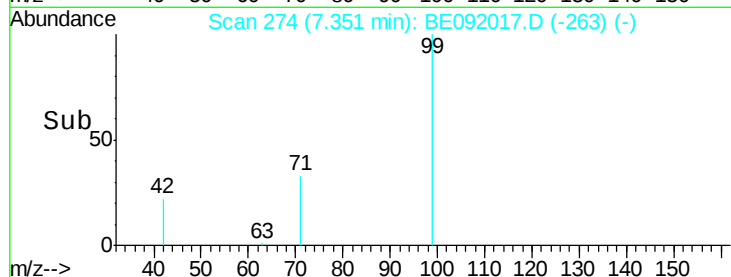
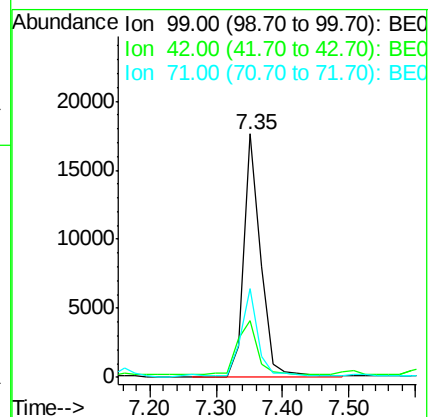
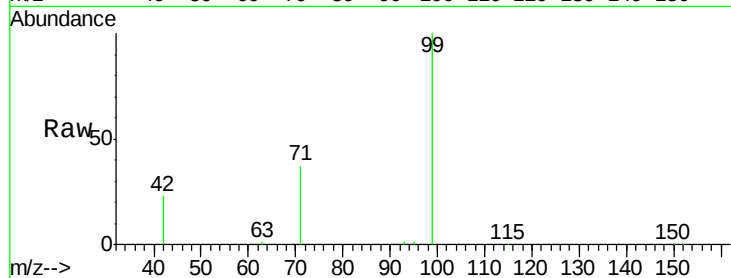
Tgt Ion: 99 Resp: 30884

Ion Ratio Lower Upper

99 100

42 27.1 19.6 29.4

71 36.6 28.1 42.1



#6

bis(2-Chloroethyl)ether

Concen: 4.38 ng

RT: 7.61 min Scan# 289

Delta R.T. -0.02 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

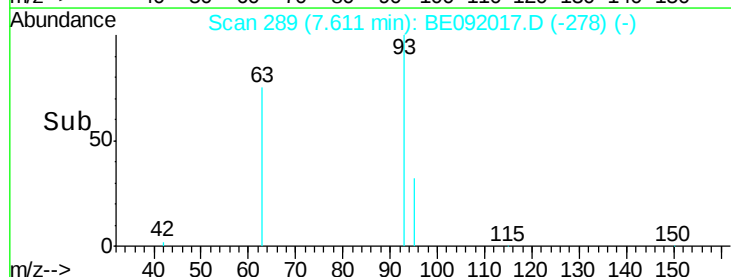
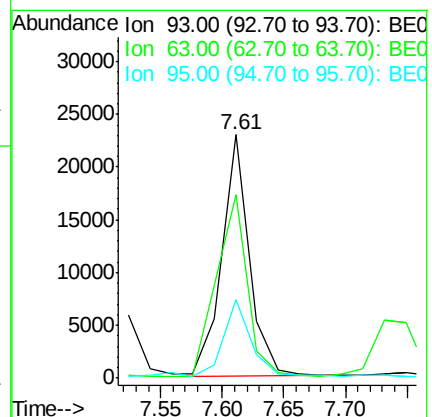
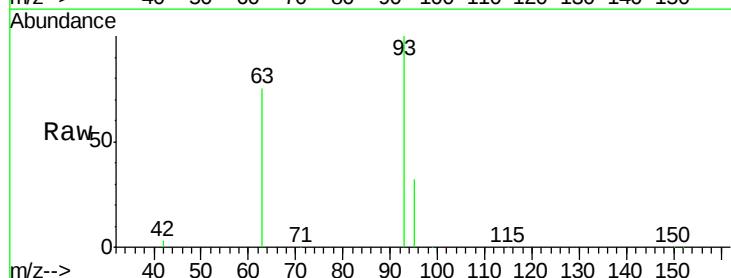
Tgt Ion: 93 Resp: 35610

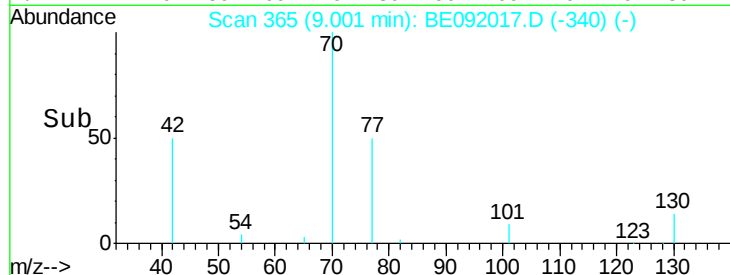
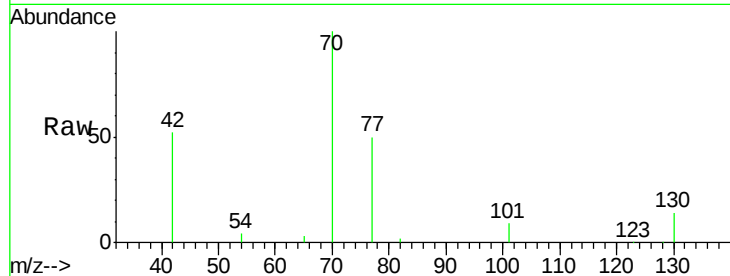
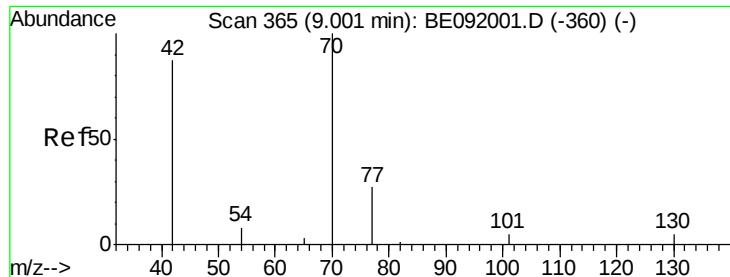
Ion Ratio Lower Upper

93 100

63 85.0 66.2 99.4

95 34.3 25.5 38.3





#7

n-Nitroso-di-n-propylamine

Concen: 4.67 ng

RT: 9.00 min Scan# 365

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

Tgt Ion: 70 Resp: 32396

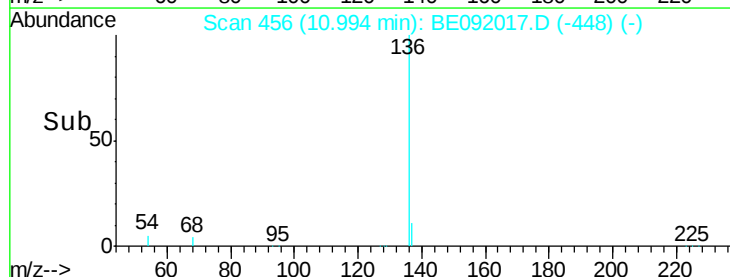
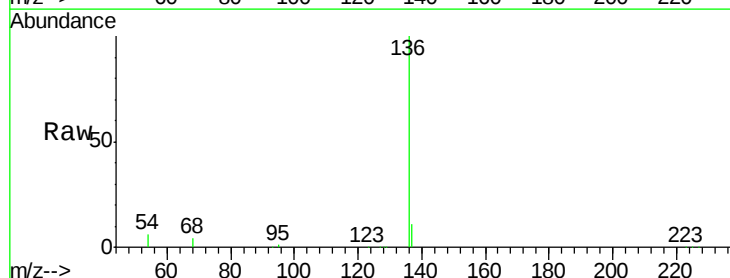
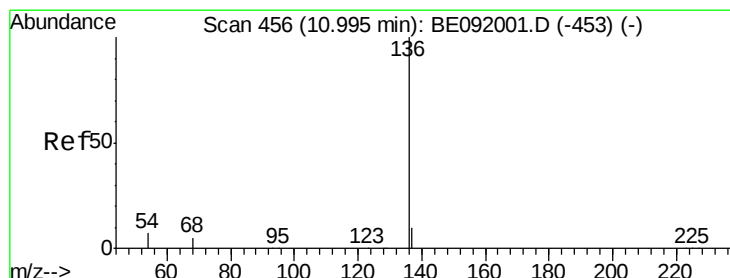
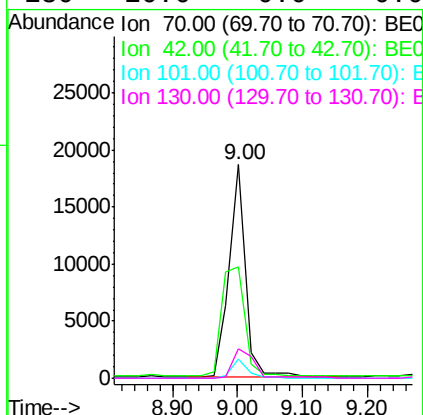
Ion Ratio Lower Upper

70 100

42 74.5 58.4 87.6

101 8.4 6.4 9.6

130 16.6 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 456

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Tgt Ion: 136 Resp: 135246

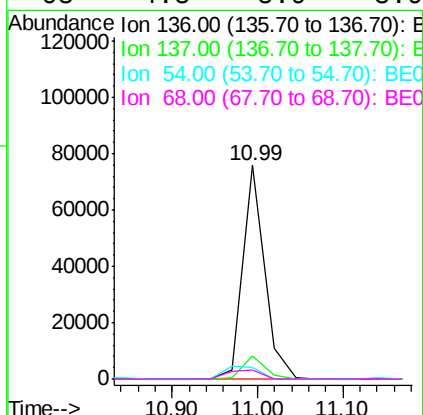
Ion Ratio Lower Upper

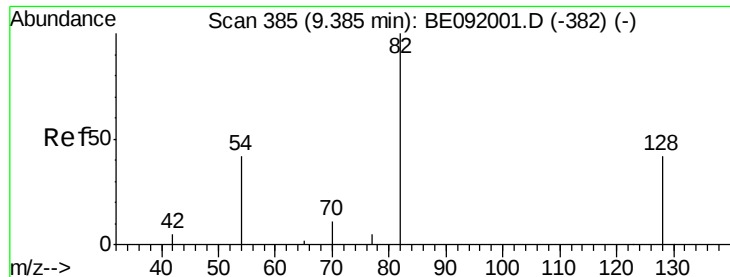
136 100

137 10.7 8.3 12.5

54 5.6 8.2 12.4#

68 4.5 5.9 8.9#

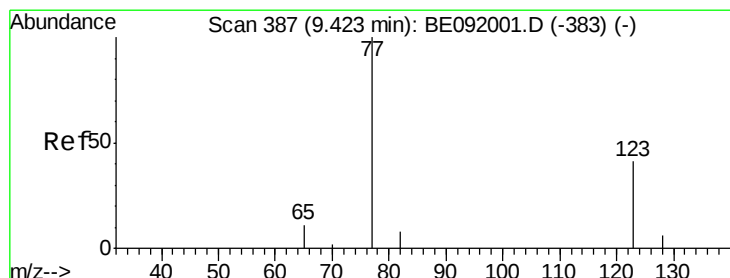
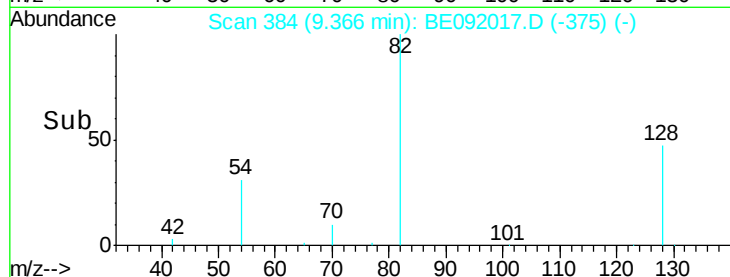
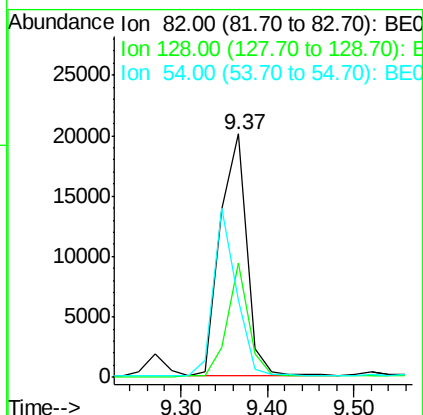
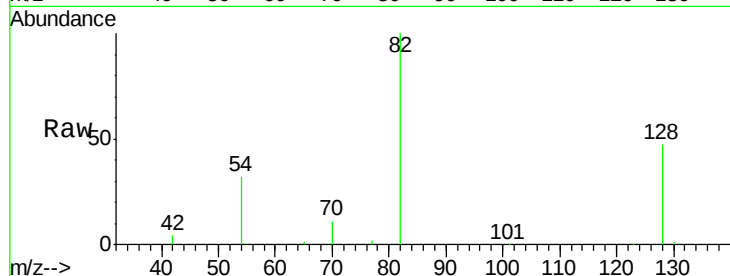




#9
 Nitrobenzene-d5
 Concen: 5.26 ng
 RT: 9.37 min Scan# 384
 Delta R.T. -0.02 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

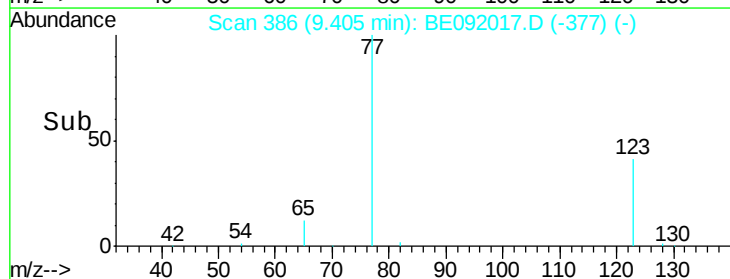
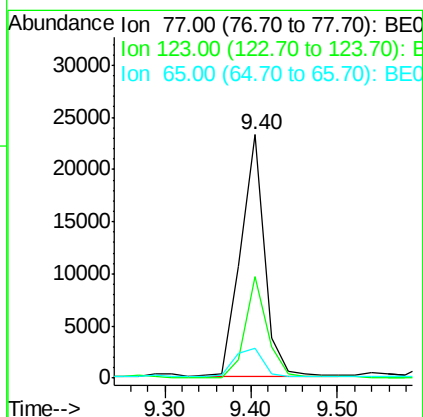
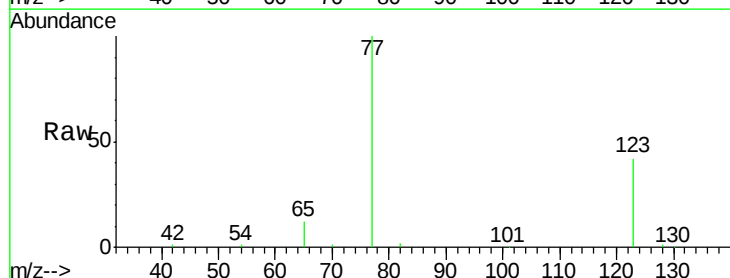
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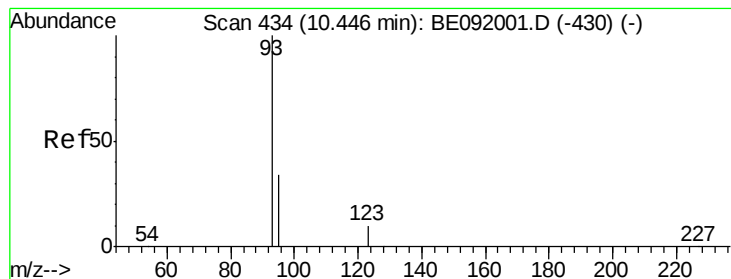
Tgt Ion: 82 Resp: 42809
 Ion Ratio Lower Upper
 82 100
 128 46.8 39.5 59.3
 54 31.6 30.3 45.5



#10
 Nitrobenzene
 Concen: 4.04 ng
 RT: 9.40 min Scan# 386
 Delta R.T. -0.02 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

Tgt Ion: 77 Resp: 44253
 Ion Ratio Lower Upper
 77 100
 123 38.6 0.0 0.0#
 65 14.3 11.1 16.7

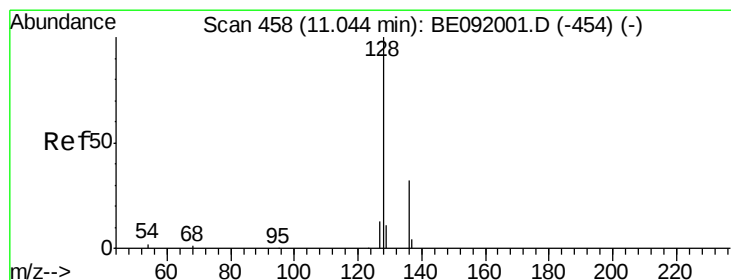
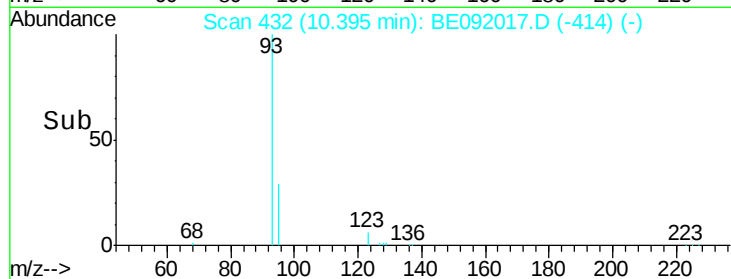
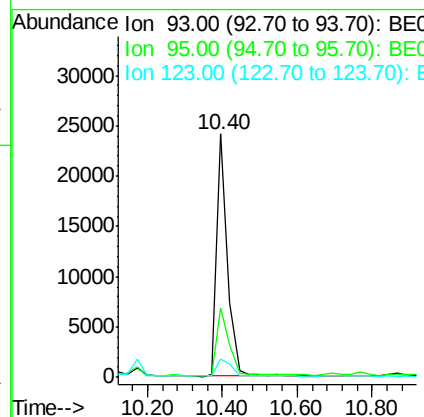
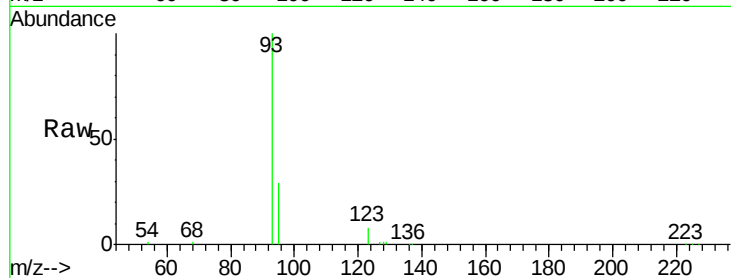




#11
bis(2-Chloroethoxy)methane
Concen: 4.86 ng
RT: 10.40 min Scan# 432
Delta R.T. -0.05 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

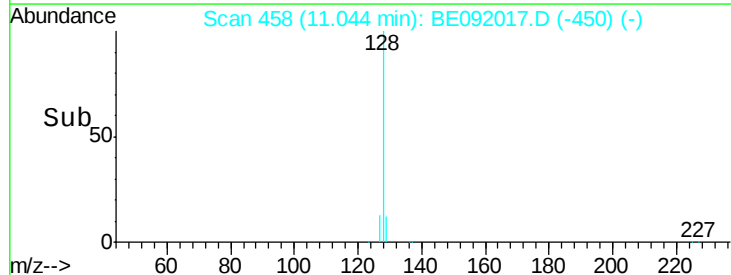
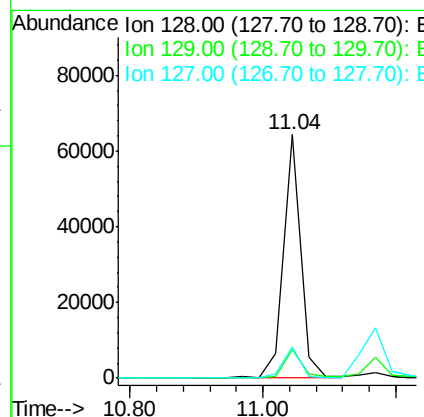
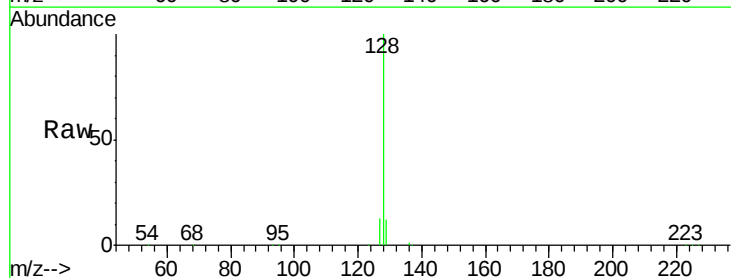
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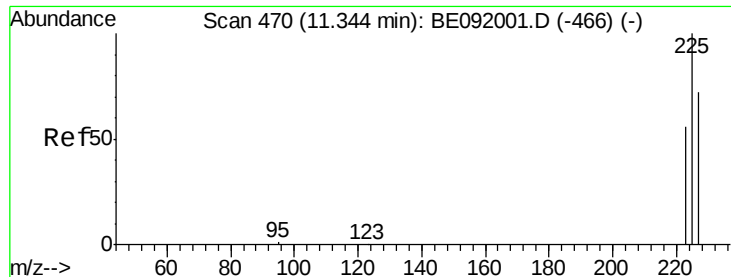
Tgt Ion: 93 Resp: 49532
Ion Ratio Lower Upper
93 100
95 31.4 57.6 86.4#
123 9.7 100.2 150.4#



#12
Naphthalene
Concen: 3.77 ng
RT: 11.04 min Scan# 458
Delta R.T. -0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Tgt Ion: 128 Resp: 115836
Ion Ratio Lower Upper
128 100
129 11.7 10.4 15.6
127 12.8 10.2 15.2

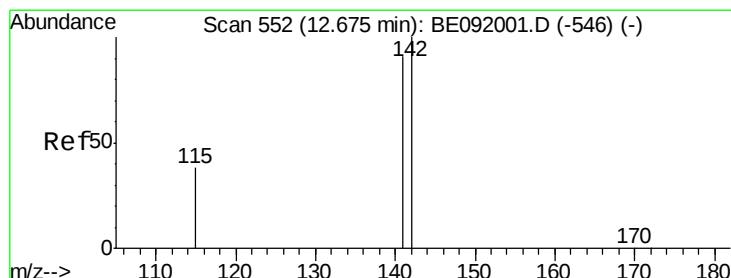
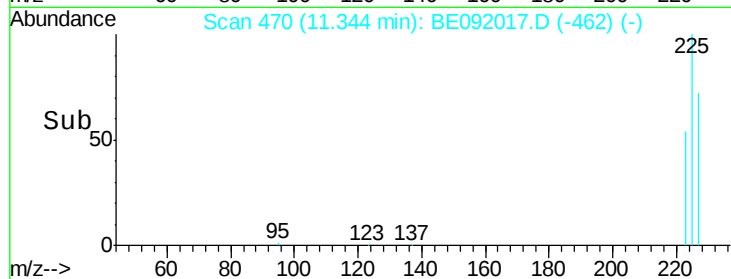
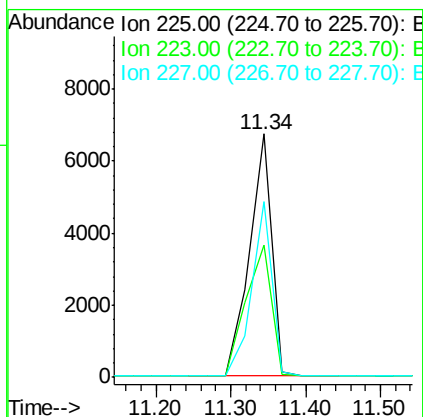
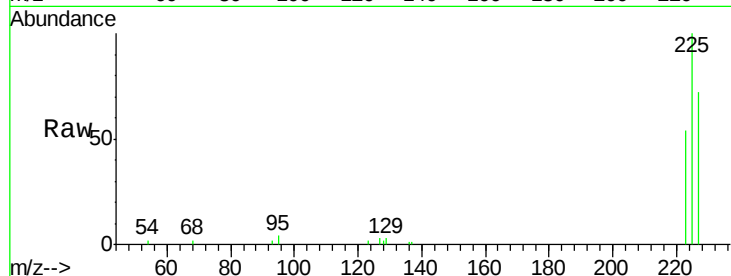




#13
Hexachlorobutadiene
Concen: 3.14 ng
RT: 11.34 min Scan# 470
Delta R.T. -0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

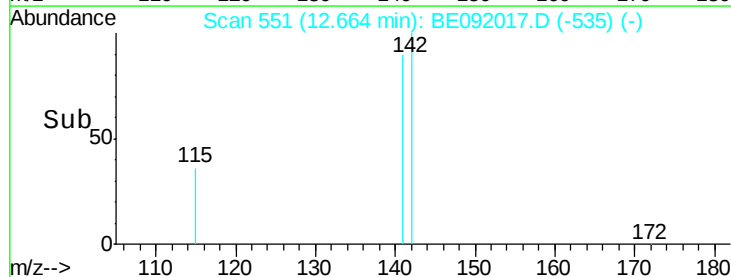
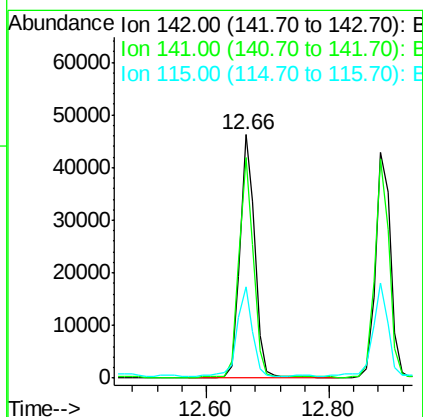
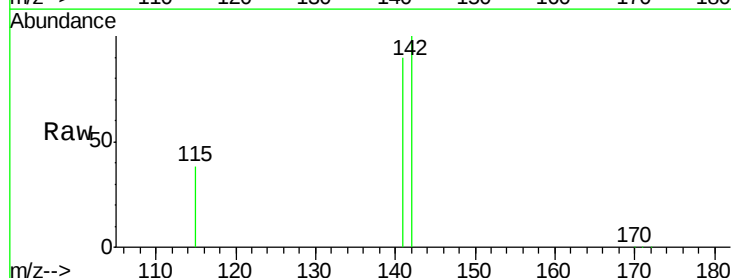
Instrument :
BNA_E
ClientSampleId :
GW-05-5.0-16.0MSD

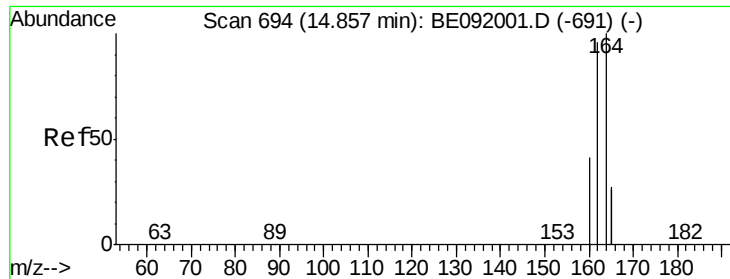
Tgt Ion: 225 Resp: 13806
Ion Ratio Lower Upper
225 100
223 61.9 49.8 74.8
227 65.8 50.6 75.8



#14
2-Methylnaphthalene
Concen: 4.04 ng
RT: 12.66 min Scan# 551
Delta R.T. -0.01 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Tgt Ion: 142 Resp: 77870
Ion Ratio Lower Upper
142 100
141 90.5 71.9 107.9
115 37.7 29.9 44.9

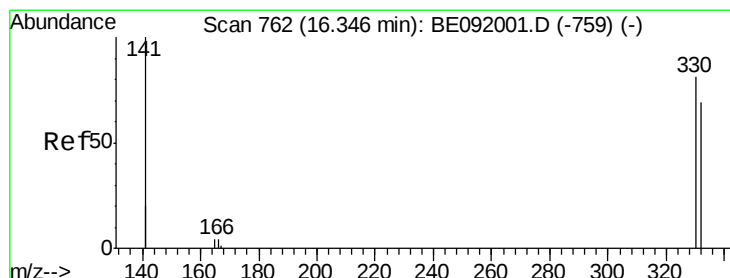
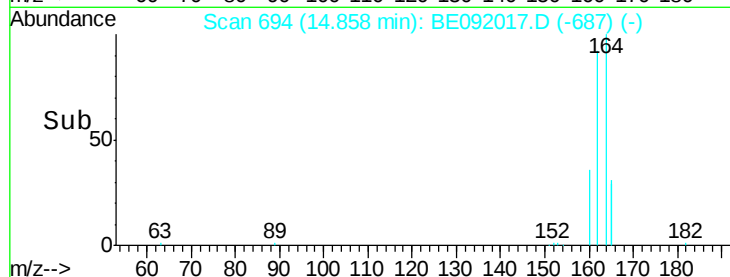
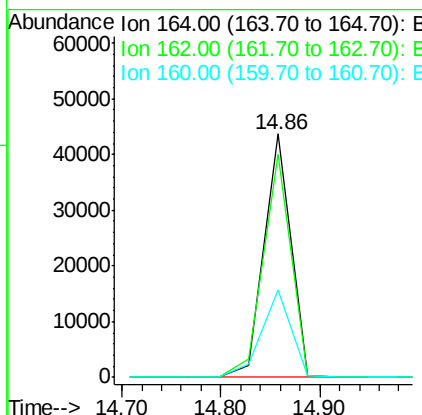
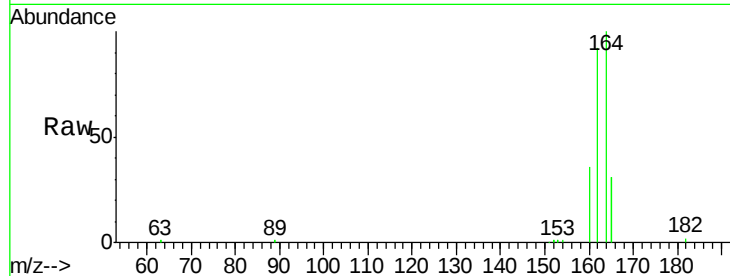




#15
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 14.86 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

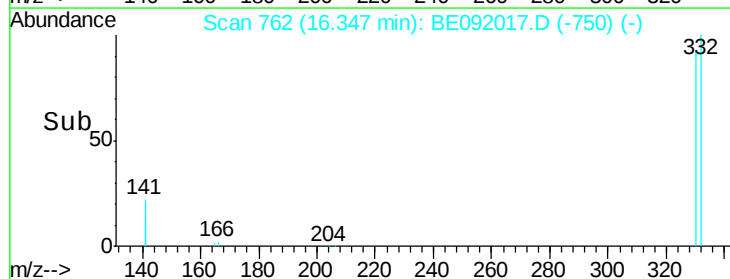
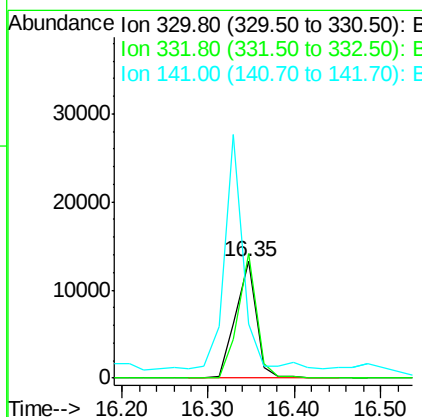
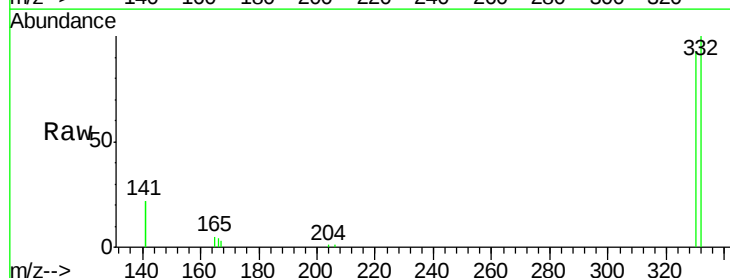
Instrument :
 BNA_E
 ClientSampleId :
 GW-05-5.0-16.0MSD

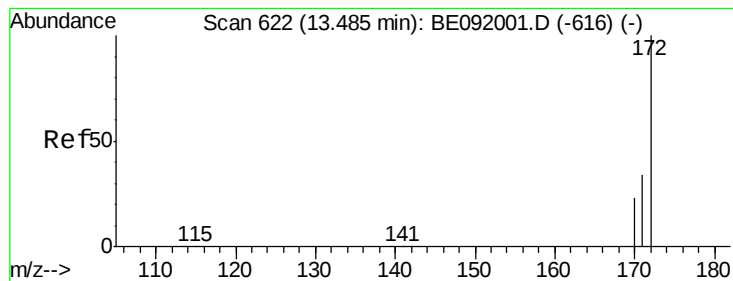
Tgt Ion:164 Resp: 82860
 Ion Ratio Lower Upper
 164 100
 162 91.6 71.8 107.8
 160 36.0 28.0 42.0



#16
 2,4,6-Tribromophenol
 Concen: 7.58 ng
 RT: 16.35 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

Tgt Ion:330 Resp: 21774
 Ion Ratio Lower Upper
 330 100
 332 98.1 77.0 115.6
 141 178.0 138.4 207.6

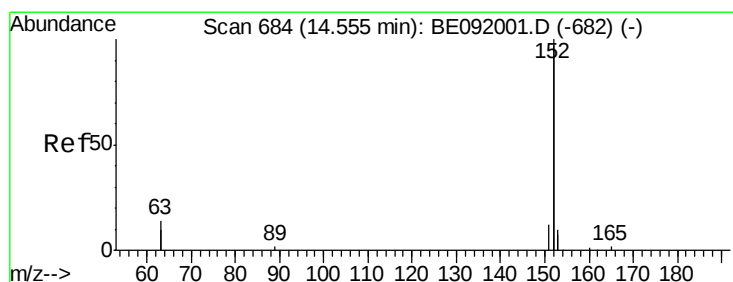
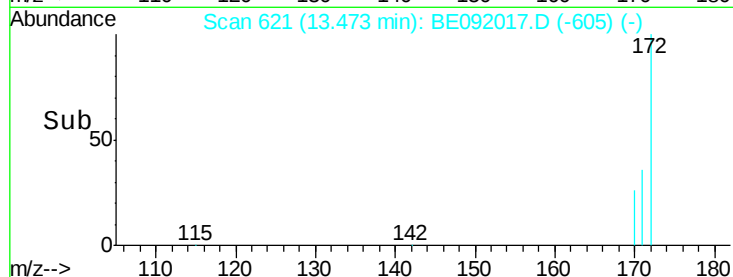
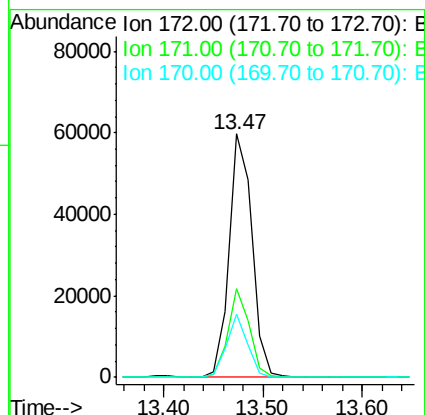
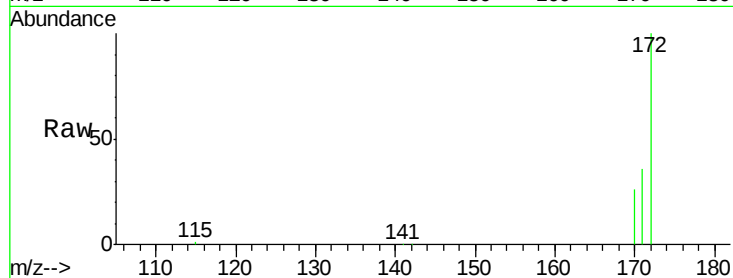




#17
 2-Fluorobiphenyl
 Concen: 4.36 ng
 RT: 13.47 min Scan# 621
 Delta R.T. -0.01 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

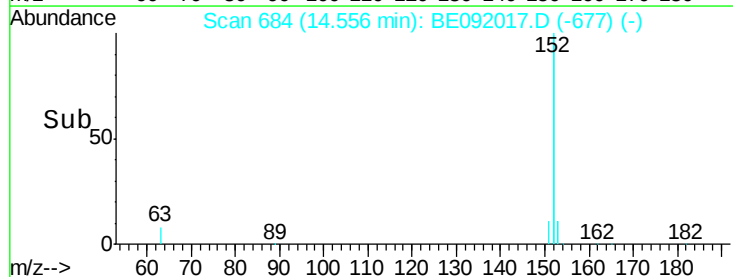
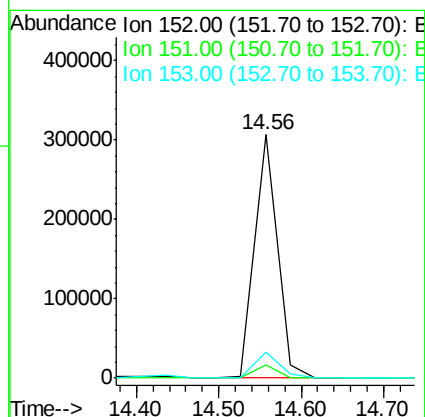
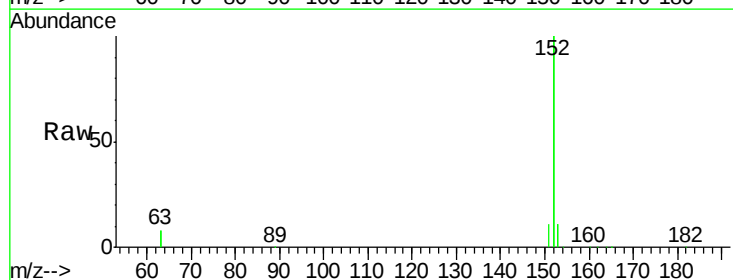
Instrument :
 BNA_E
 ClientSampleId :
 GW-05-5.0-16.0MSD

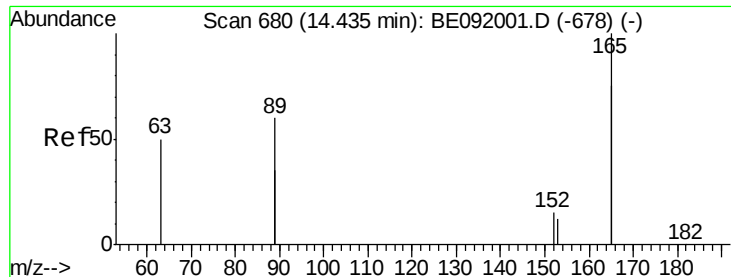
Tgt Ion:172 Resp: 94907
 Ion Ratio Lower Upper
 172 100
 171 36.3 24.3 36.5
 170 25.9 14.9 22.3#



#18
 Acenaphthylene
 Concen: 4.61 ng
 RT: 14.56 min Scan# 684
 Delta R.T. 0.00 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

Tgt Ion:152 Resp: 587596
 Ion Ratio Lower Upper
 152 100
 151 5.4 19.4 29.2#
 153 11.7 14.4 21.6#

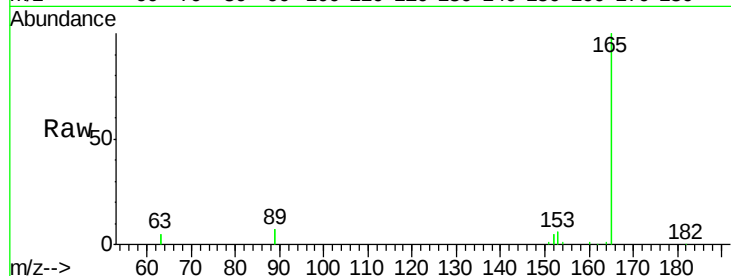




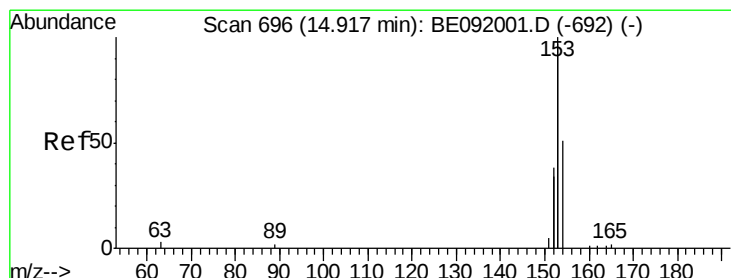
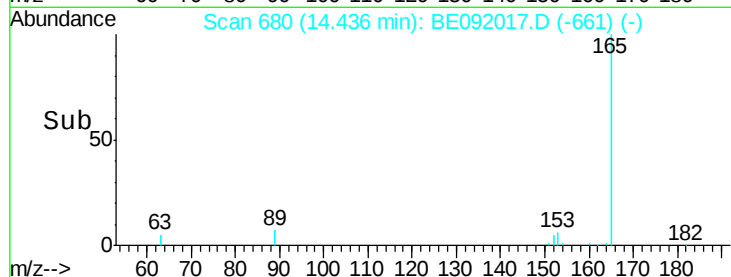
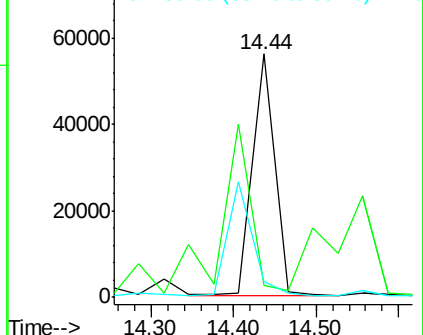
#19
2,6-Dinitrotoluene
Concen: 4.39 ng
RT: 14.44 min Scan# 680
Delta R.T. 0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Instrument :
BNA_E
ClientSampleId :
GW-05-5.0-16.0MSD

Tgt Ion:165 Resp: 104794
Ion Ratio Lower Upper
165 100
63 0.0 65.9 98.9#
89 0.0 59.1 88.7#

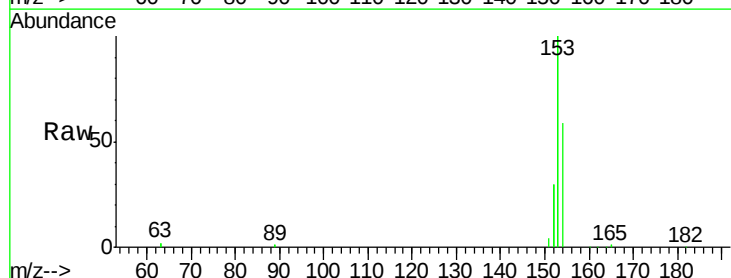


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BE0
Ion 89.00 (88.70 to 89.70): BE0

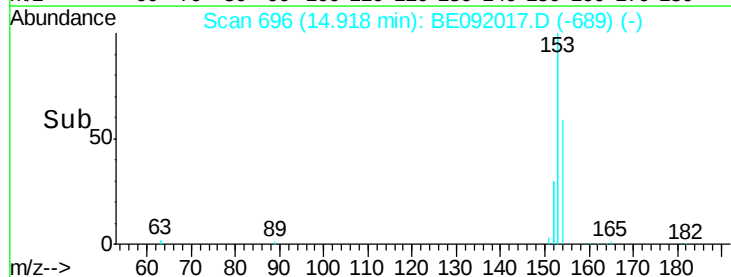
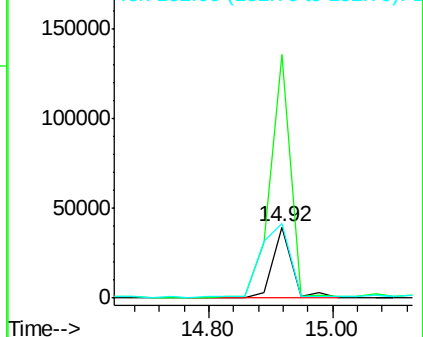


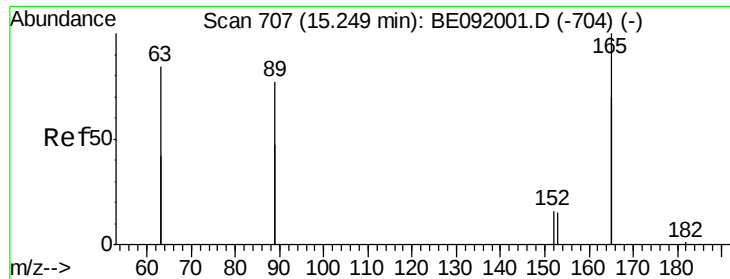
#20
Acenaphthene
Concen: 3.99 ng
RT: 14.92 min Scan# 696
Delta R.T. 0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Tgt Ion:154 Resp: 86165
Ion Ratio Lower Upper
154 100
153 354.9 88.1 132.1#
152 156.4 44.2 66.2#



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

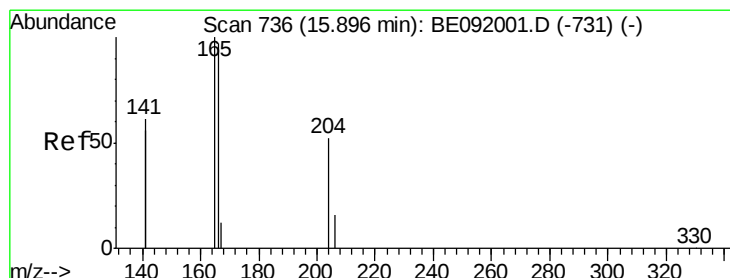
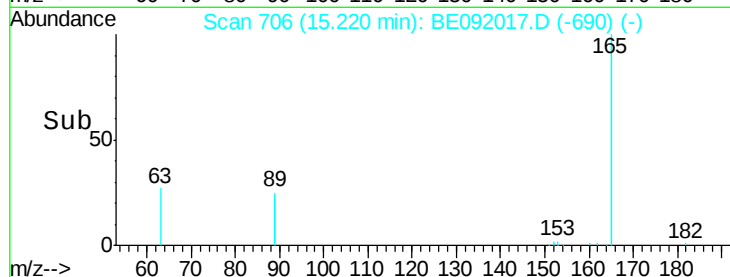
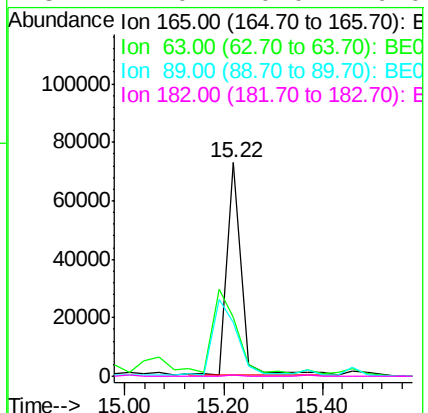
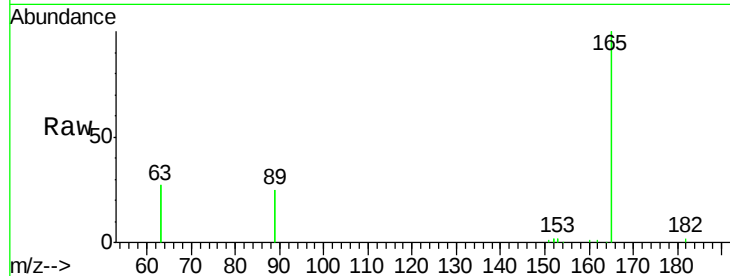




#21
2,4-Dinitrotoluene
Concen: 4.37 ng
RT: 15.22 min Scan# 706
Delta R.T. -0.03 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

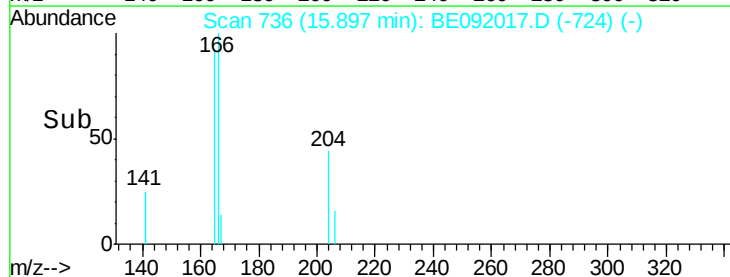
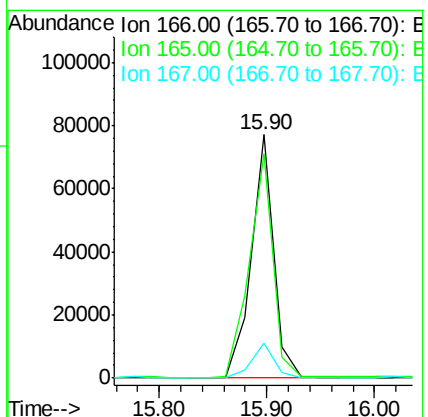
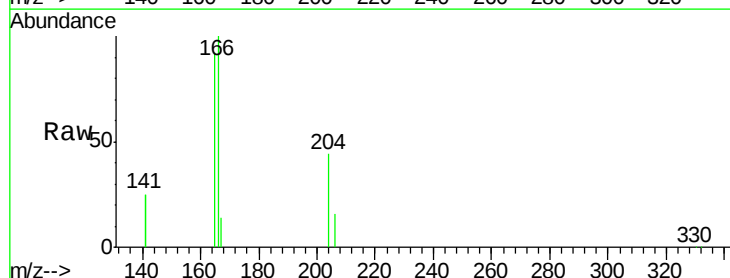
Instrument :
BNA_E
ClientSampleId :
GW-05-5.0-16.0MSD

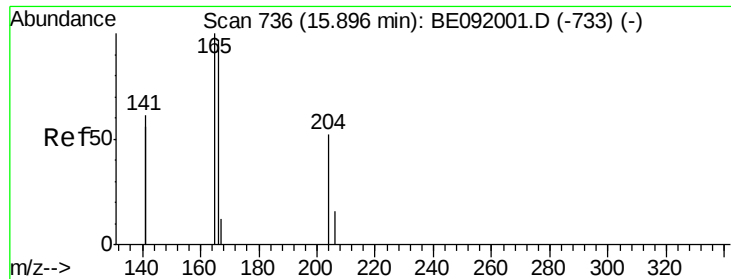
Tgt Ion:165 Resp: 147132
Ion Ratio Lower Upper
165 100
63 0.0 0.0 0.0
89 0.0 99.8 149.8#
182 1.0 0.0 0.0#



#22
Fluorene
Concen: 4.30 ng
RT: 15.90 min Scan# 736
Delta R.T. 0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Tgt Ion:166 Resp: 110734
Ion Ratio Lower Upper
166 100
165 98.0 78.6 117.8
167 14.9 10.8 16.2

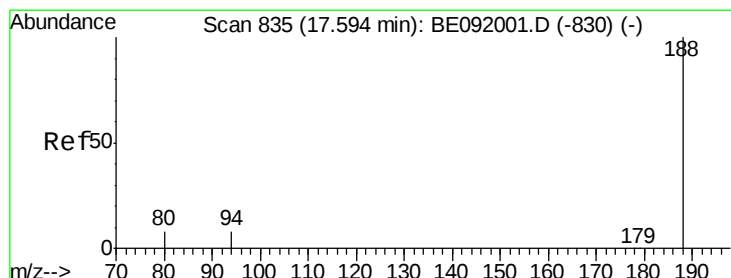
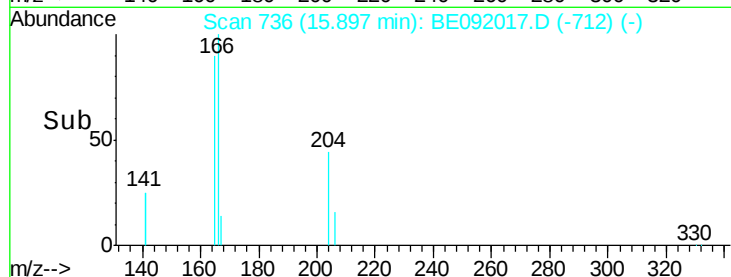
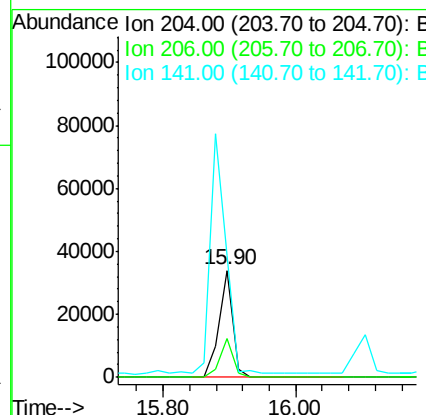
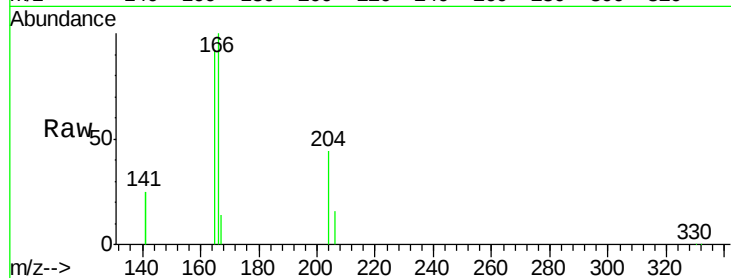




#23
 4-Chlorophenyl-phenylether
 Concen: 3.80 ng
 RT: 15.90 min Scan# 736
 Delta R.T. 0.00 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

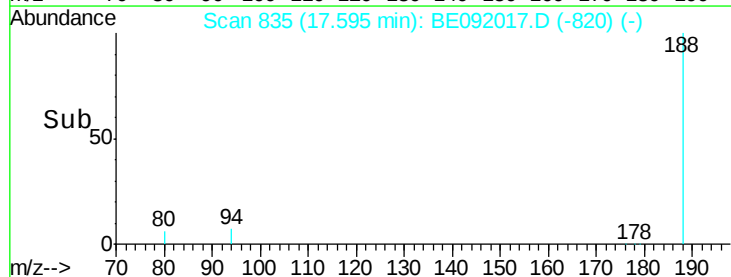
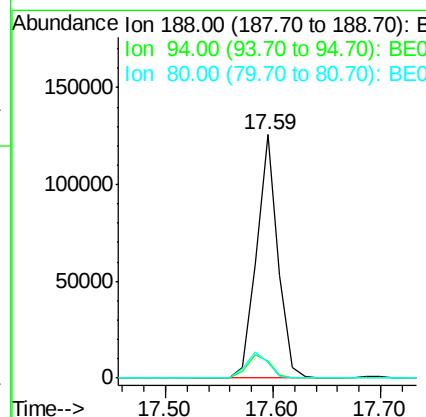
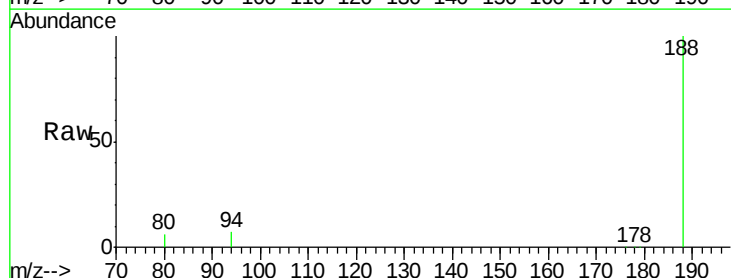
Instrument :
 BNA_E
 ClientSampleId :
 GW-05-5.0-16.0MSD

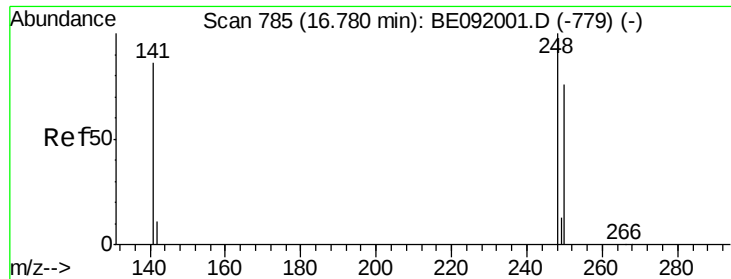
Tgt Ion: 204 Resp: 48653
 Ion Ratio Lower Upper
 204 100
 206 34.4 27.8 41.6
 141 255.1 197.6 296.4



#24
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.59 min Scan# 835
 Delta R.T. 0.00 min
 Lab File: BE092017.D
 Acq: 22 Jul 2016 22:03

Tgt Ion: 188 Resp: 172807
 Ion Ratio Lower Upper
 188 100
 94 7.1 4.1 6.1#
 80 6.3 3.4 5.2#

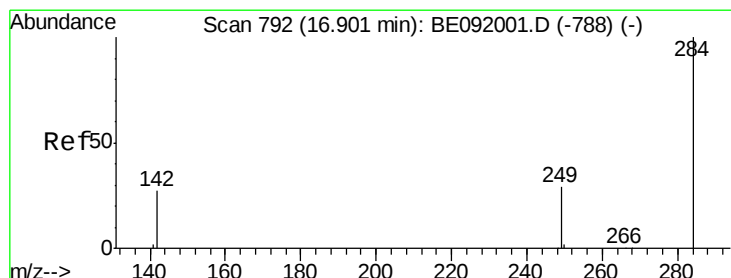
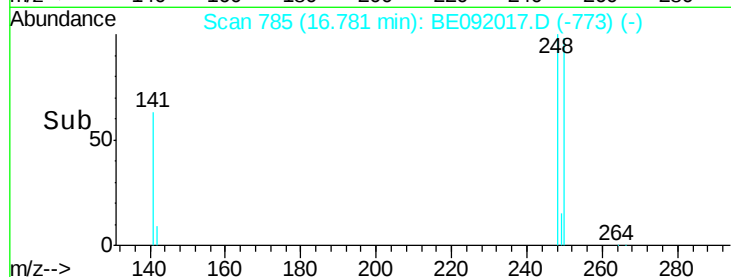
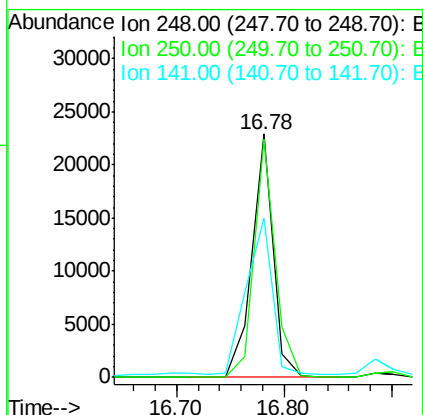
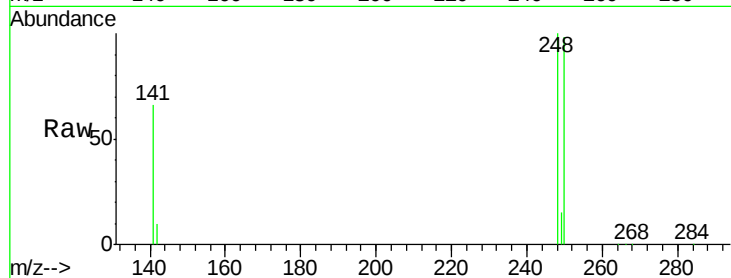




#25
4-Bromophenyl-phenylether
Concen: 4.33 ng
RT: 16.78 min Scan# 785
Delta R.T. 0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

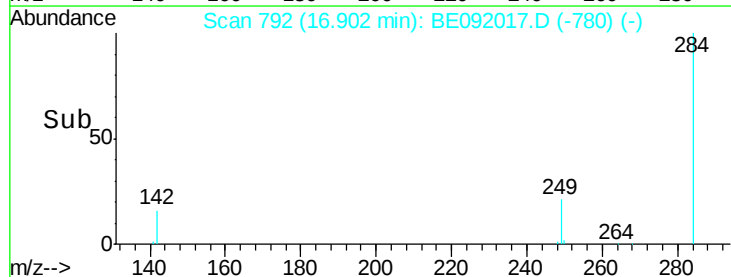
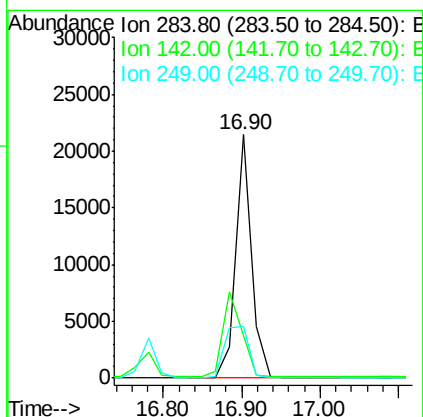
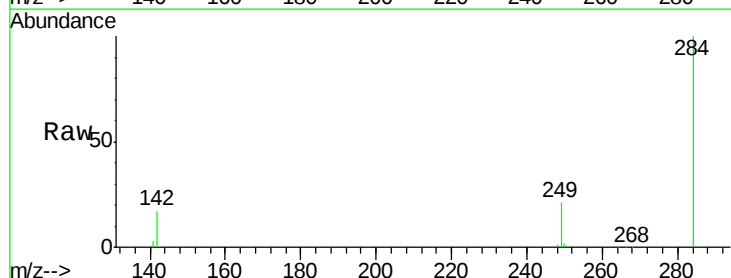
Instrument :
BNA_E
ClientSampleId :
GW-05-5.0-16.0MSD

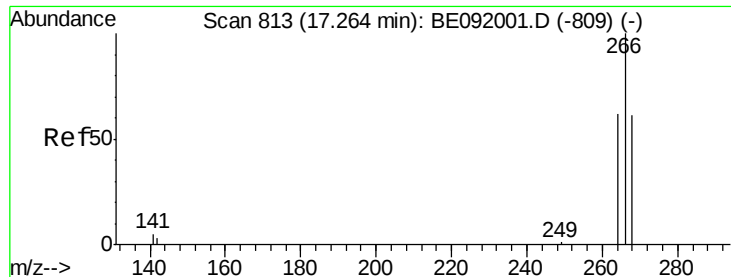
Tgt Ion:248 Resp: 31162
Ion Ratio Lower Upper
248 100
250 97.3 75.7 113.5
141 78.5 64.6 97.0



#26
Hexachlorobenzene
Concen: 4.04 ng
RT: 16.90 min Scan# 792
Delta R.T. 0.00 min
Lab File: BE092017.D
Acq: 22 Jul 2016 22:03

Tgt Ion:284 Resp: 29942
Ion Ratio Lower Upper
284 100
142 40.1 31.4 47.2
249 31.6 25.3 37.9





#27

Pentachlorophenol

Concen: 7.81 ng

RT: 17.25 min Scan# 812

Delta R.T. -0.02 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

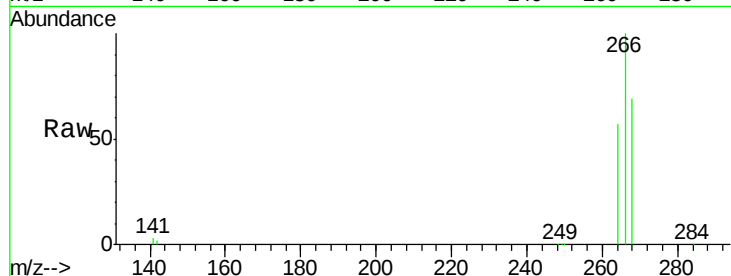
Tgt Ion:266 Resp: 32403

Ion Ratio Lower Upper

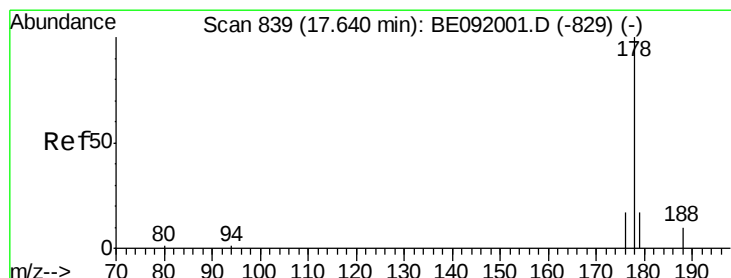
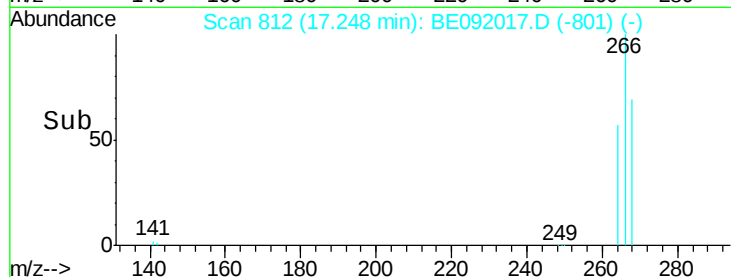
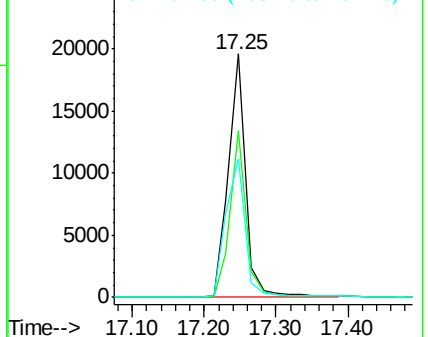
266 100

268 68.6 60.5 90.7

264 56.8 51.0 76.4



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



#28

Phenanthrene

Concen: 4.12 ng

RT: 17.63 min Scan# 838

Delta R.T. -0.01 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

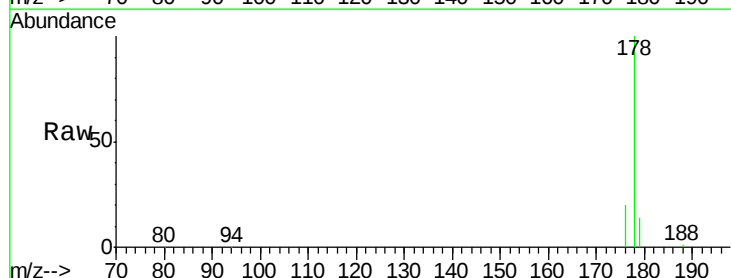
Tgt Ion:178 Resp: 183909

Ion Ratio Lower Upper

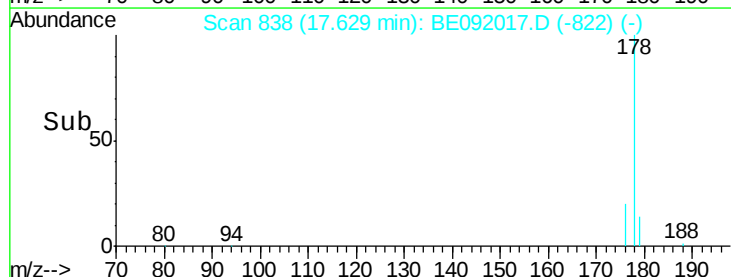
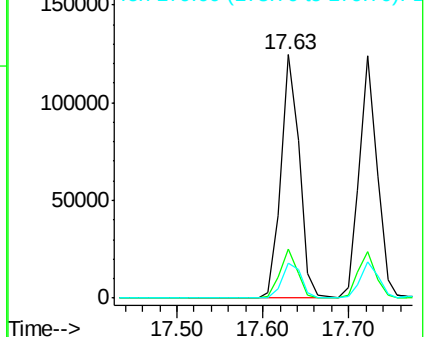
178 100

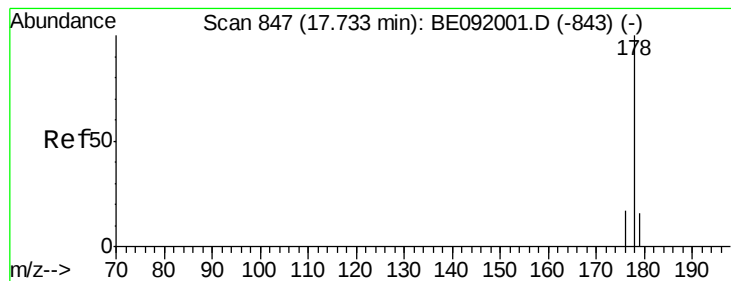
176 19.5 15.4 23.2

179 15.6 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#29

Anthracene

Concen: 4.41 ng

RT: 17.72 min Scan# 846

Delta R.T. -0.01 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

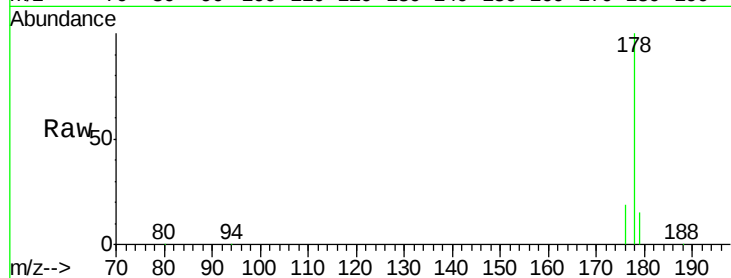
Tgt Ion:178 Resp: 178421

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

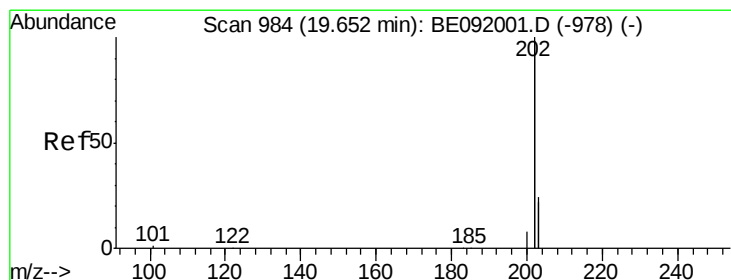
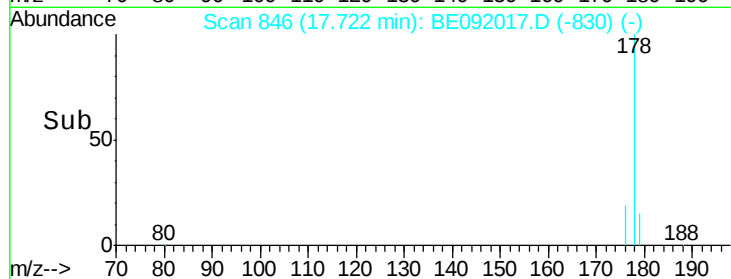
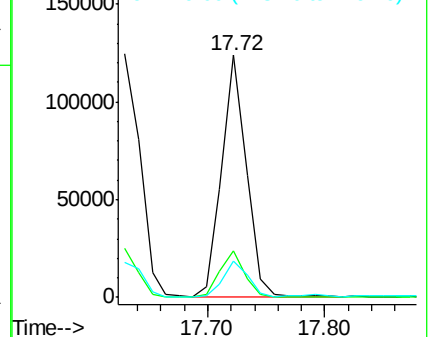
179 15.0 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#30

Fluoranthene

Concen: 4.40 ng

RT: 19.63 min Scan# 983

Delta R.T. -0.02 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

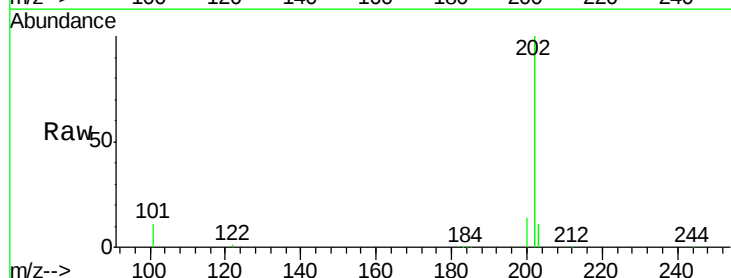
Tgt Ion:202 Resp: 785292

Ion Ratio Lower Upper

202 100

101 3.5 9.4 14.0#

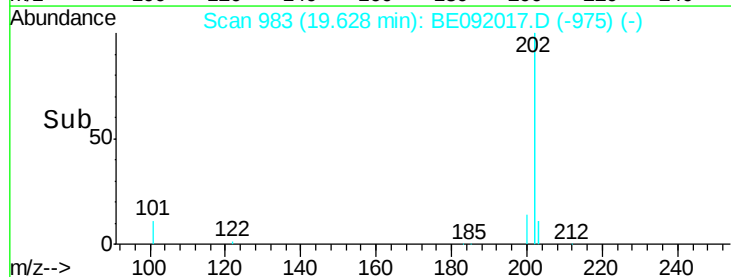
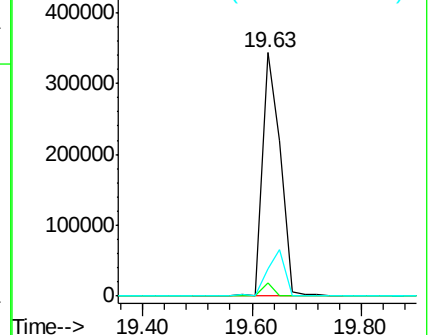
203 0.0 14.3 21.5#

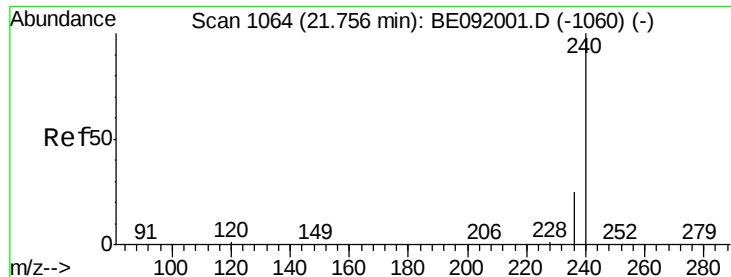


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

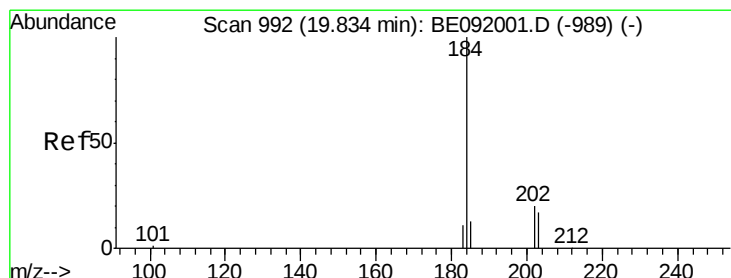
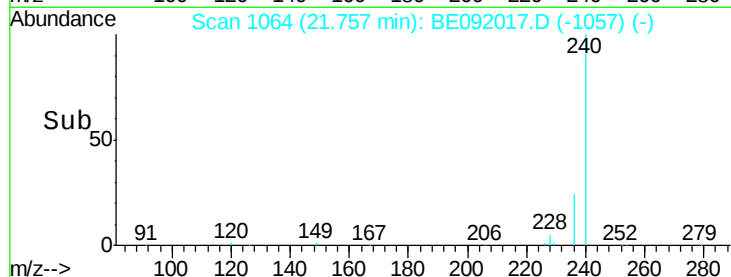
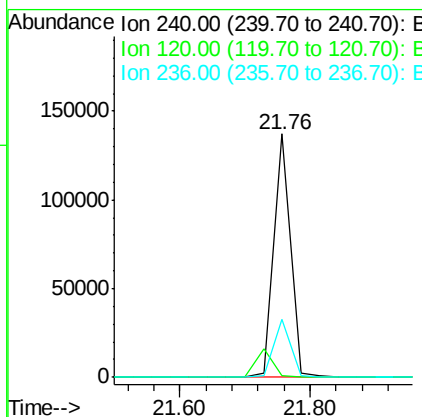
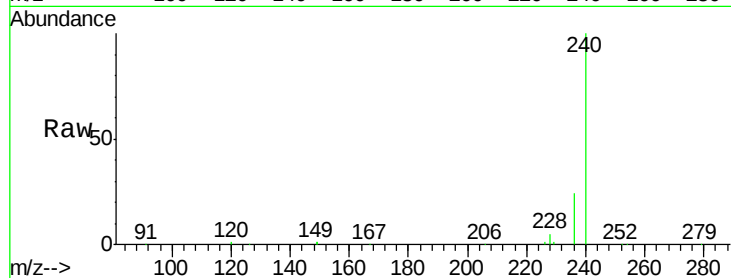
BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

Tgt Ion:240 Resp: 246205

Ion	Ratio	Lower	Upper
240	100		
120	0.6	1.2	1.8#
236	23.9	19.8	29.8



#32

Benzidine

Concen: 0.20 ng

RT: 19.90 min Scan# 995

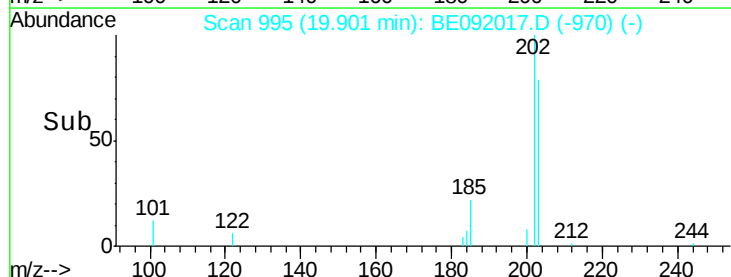
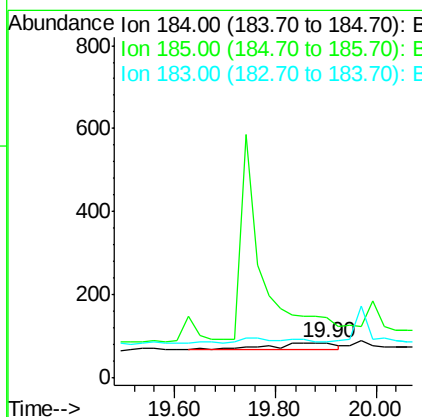
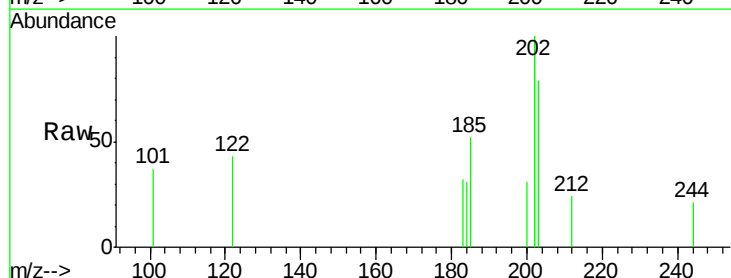
Delta R.T. 0.07 min

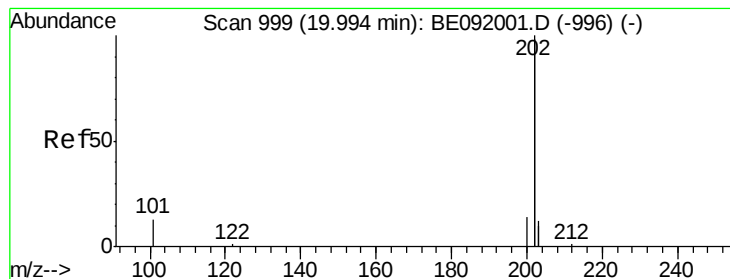
Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Tgt Ion:184 Resp: 165

Ion	Ratio	Lower	Upper
184	100		
185	170.6	11.4	17.2#
183	103.5	11.8	17.6#





#33

Pyrene

Concen: 5.07 ng

RT: 19.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

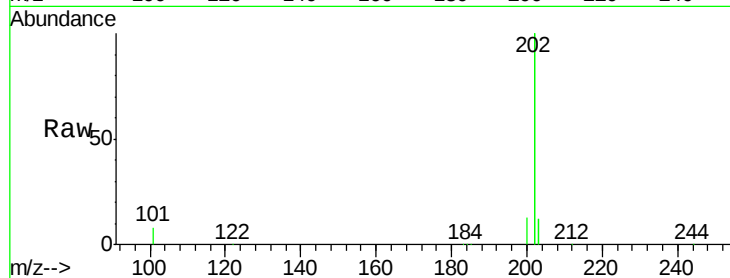
Tgt Ion:202 Resp: 906547

Ion Ratio Lower Upper

202 100

200 5.8 16.9 25.3#

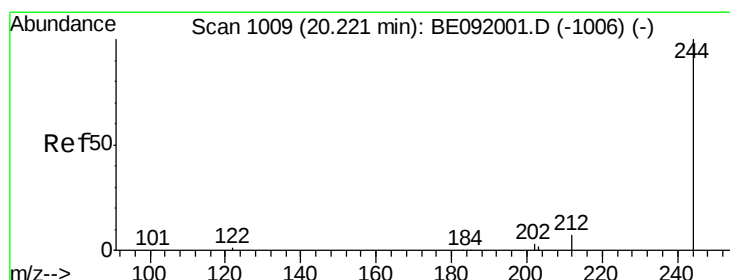
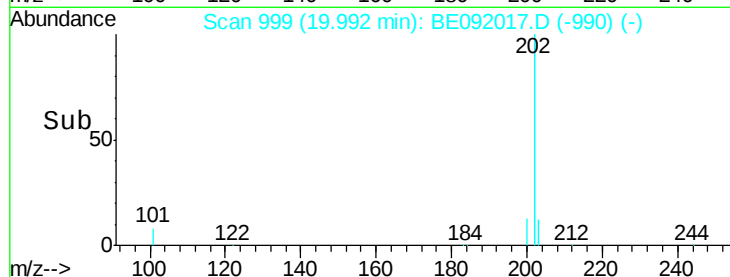
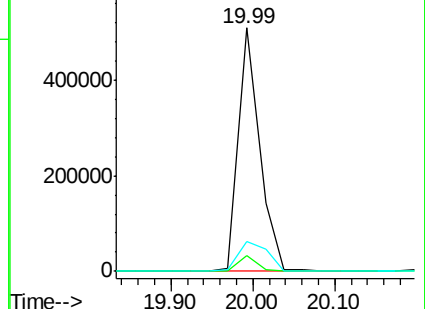
203 17.0 14.1 21.1



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



#34

Terphenyl-d14

Concen: 5.33 ng

RT: 20.20 min Scan# 1008

Delta R.T. -0.02 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

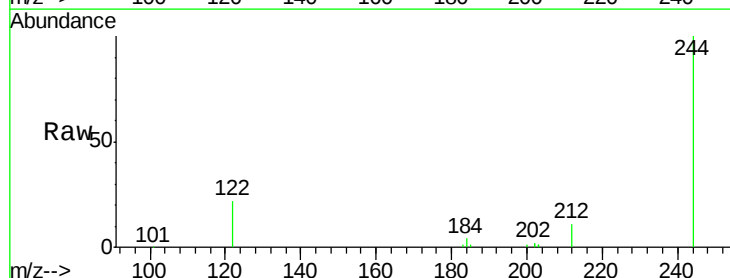
Tgt Ion:244 Resp: 131755

Ion Ratio Lower Upper

244 100

212 10.8 6.5 9.7#

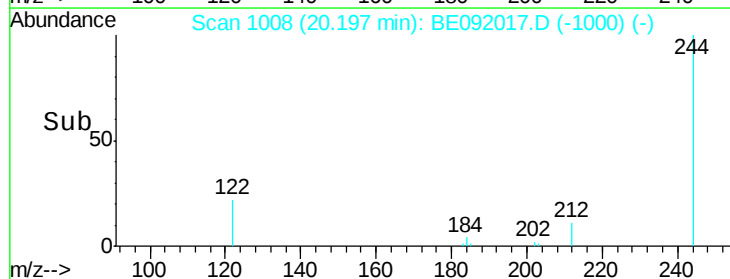
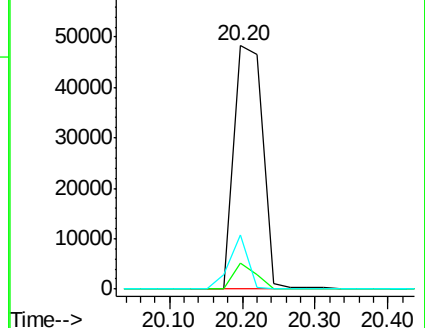
122 22.1 2.9 4.3#

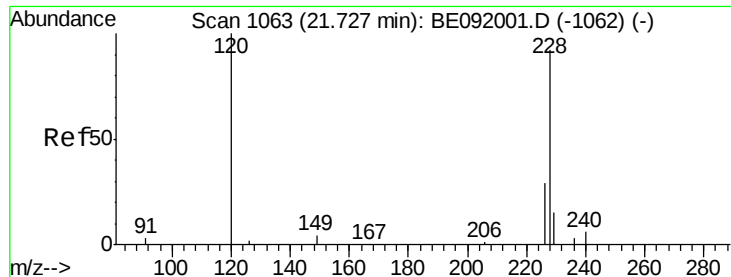


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Benzo(a)anthracene

Concen: 11.03 ng

RT: 21.73 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

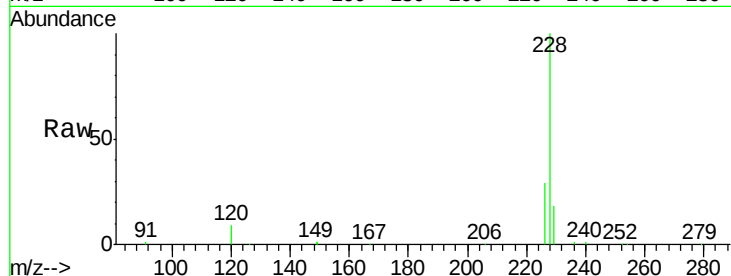
Tgt Ion:228 Resp: 611765

Ion Ratio Lower Upper

228 100

226 28.5 21.0 31.4

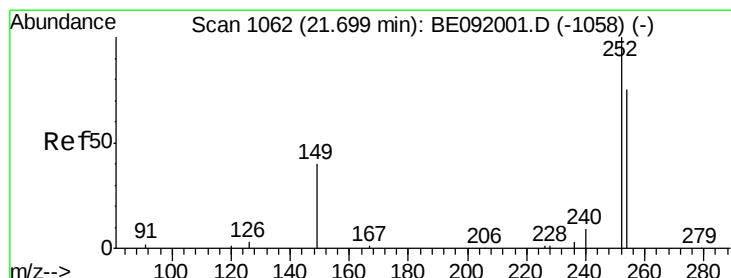
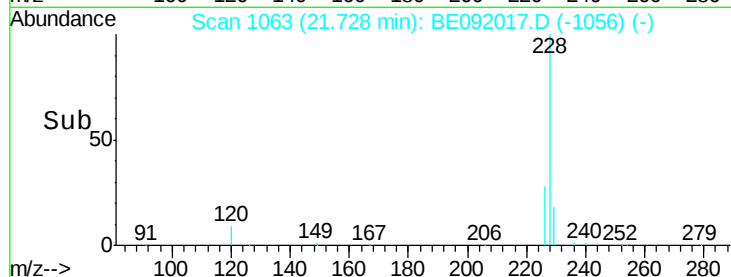
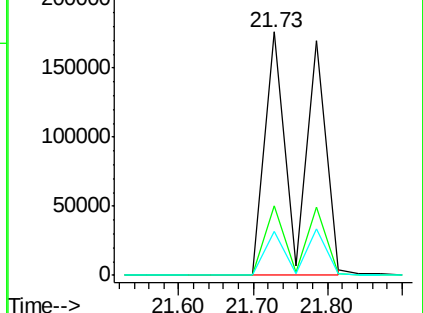
229 18.1 15.8 23.8



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



#36

3,3'-Dichlorobenzidine

Concen: 2.75 ng

RT: 21.67 min Scan# 1061

Delta R.T. -0.03 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

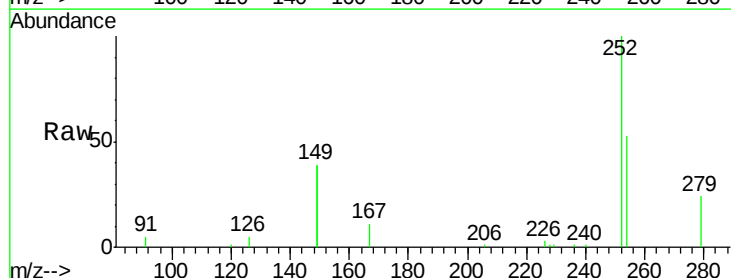
Tgt Ion:252 Resp: 32479

Ion Ratio Lower Upper

252 100

254 53.2 61.5 92.3#

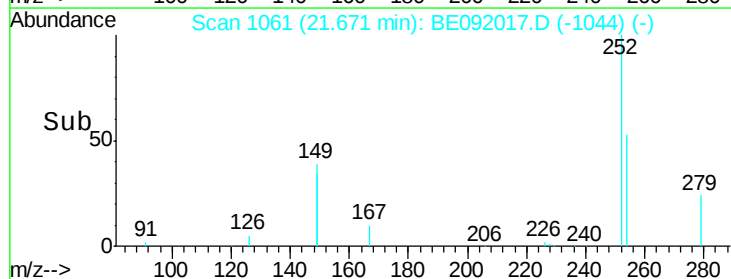
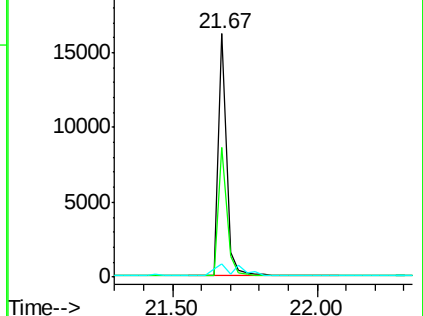
126 5.4 2.5 3.7#

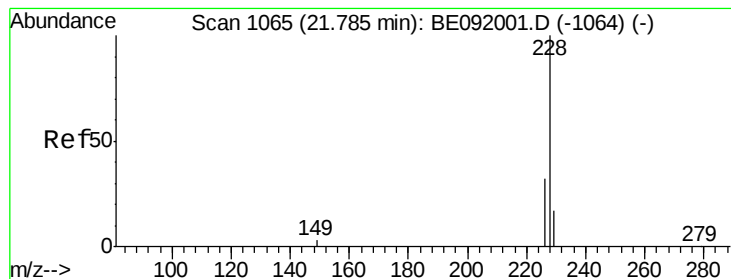


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#37

Chrysene

Concen: 9.11 ng

RT: 21.73 min Scan# 1063

Delta R.T. -0.06 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

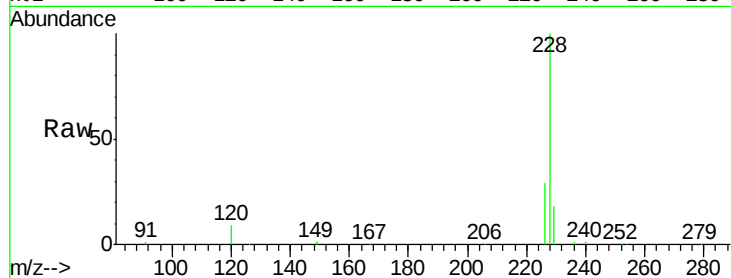
Tgt Ion:228 Resp: 615568

Ion Ratio Lower Upper

228 100

226 28.5 27.0 40.6

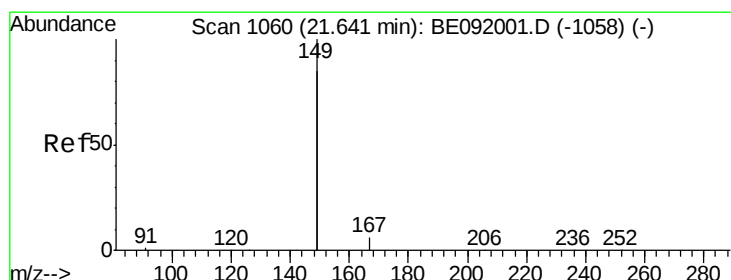
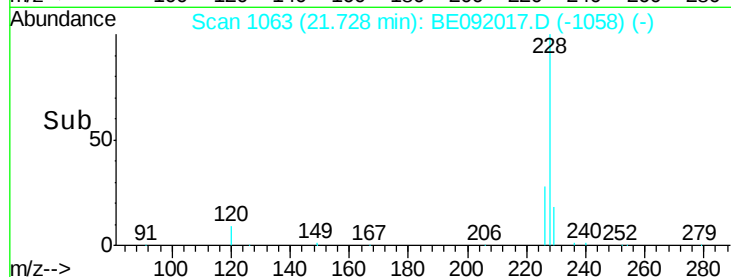
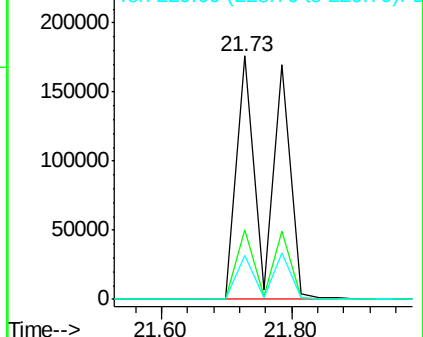
229 18.1 13.8 20.8



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 11.91 ng

RT: 21.64 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

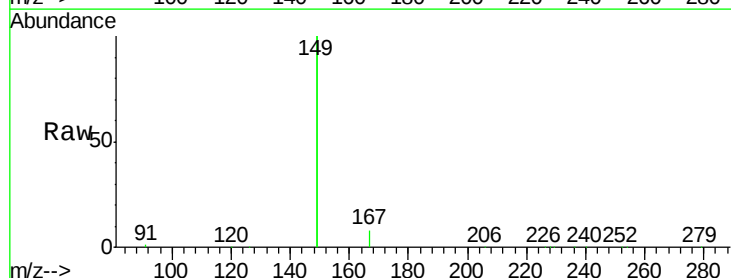
Tgt Ion:149 Resp: 578305

Ion Ratio Lower Upper

149 100

167 4.3 0.0 0.0#

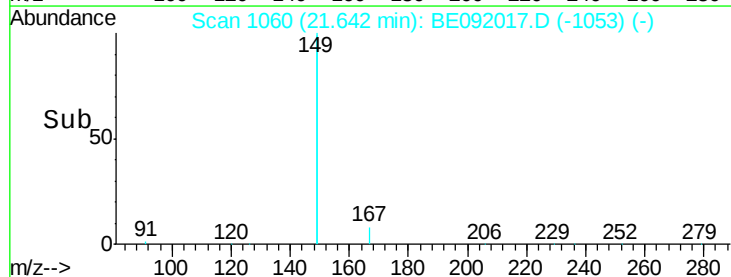
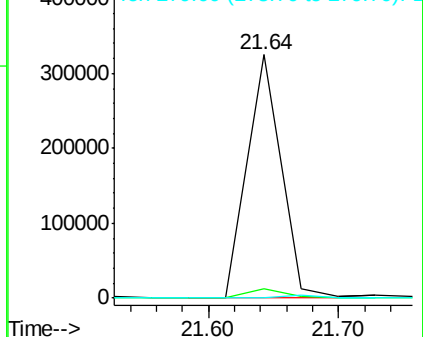
279 0.0 0.0 0.0

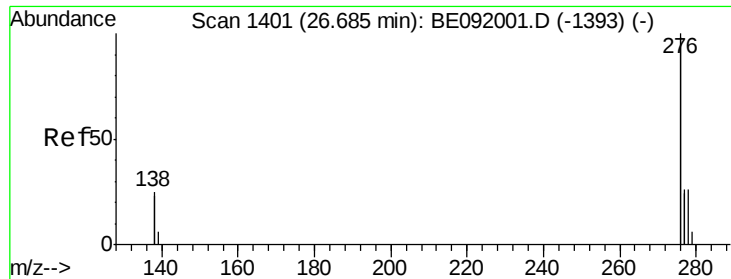


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: 5.45 ng

RT: 26.67 min Scan# 1399

Delta R.T. -0.02 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

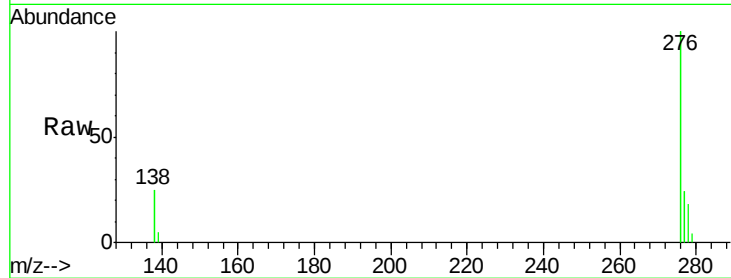
Tgt Ion:276 Resp: 1010736

Ion Ratio Lower Upper

276 100

138 26.2 19.7 29.5

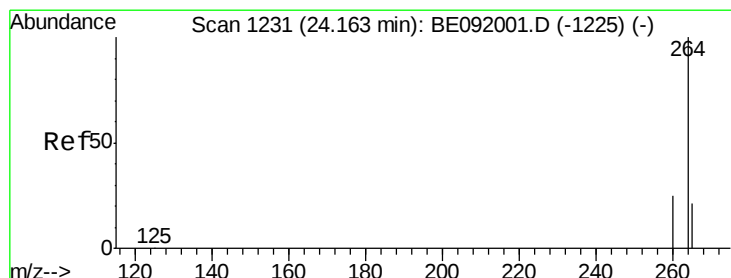
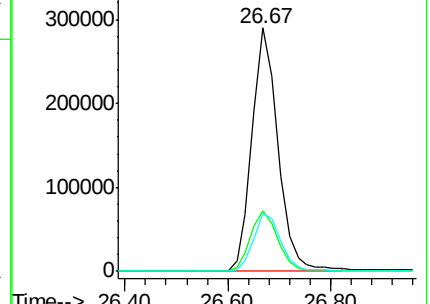
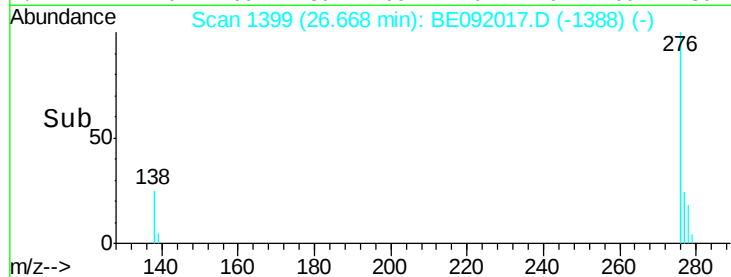
277 24.8 20.1 30.1



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 24.16 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

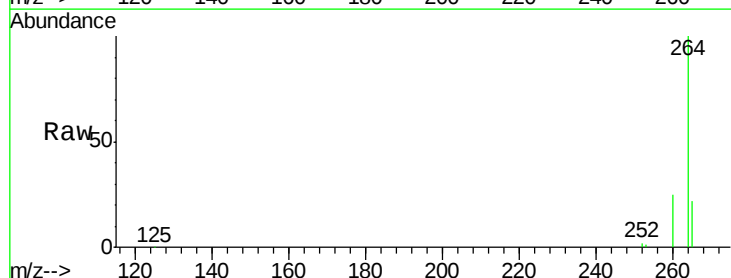
Tgt Ion:264 Resp: 197652

Ion Ratio Lower Upper

264 100

260 24.6 20.3 30.5

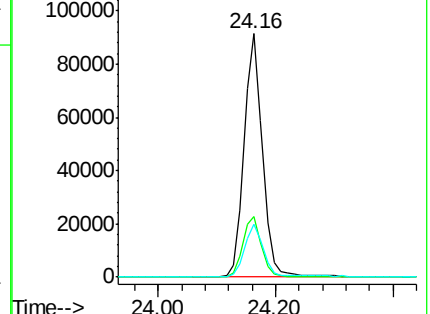
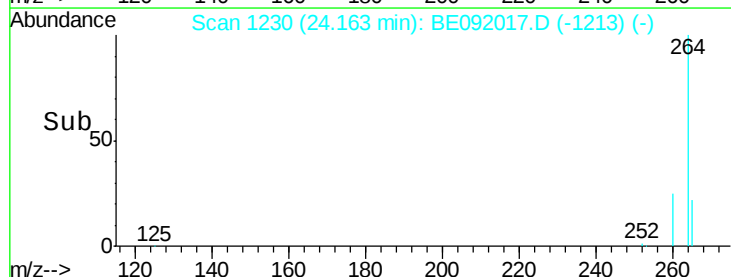
265 21.8 17.6 26.4

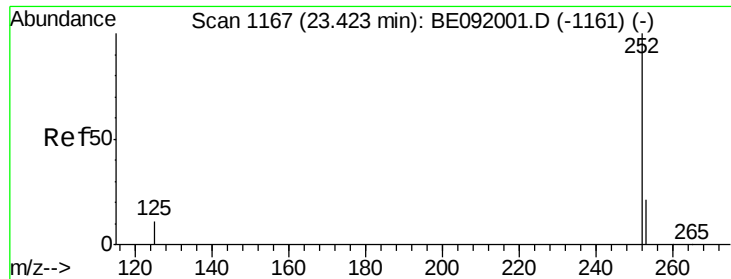


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 4.67 ng

RT: 23.42 min Scan# 1166

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

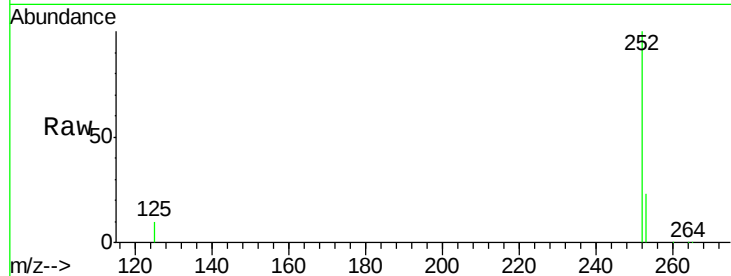
Tgt Ion:252 Resp: 242274

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

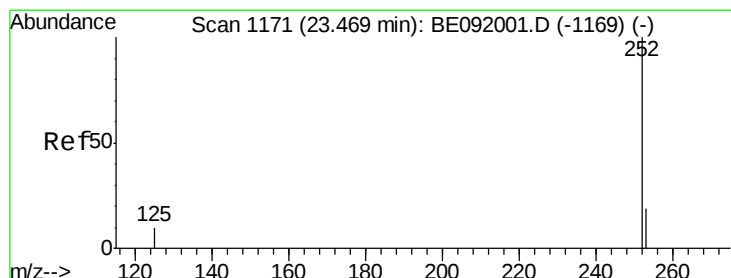
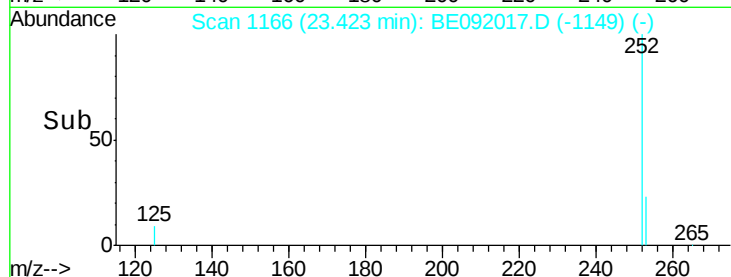
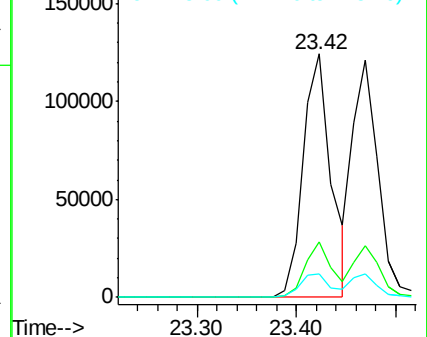
125 9.5 9.4 14.2



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



#42

Benzo(k)fluoranthene

Concen: 4.11 ng

RT: 23.47 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

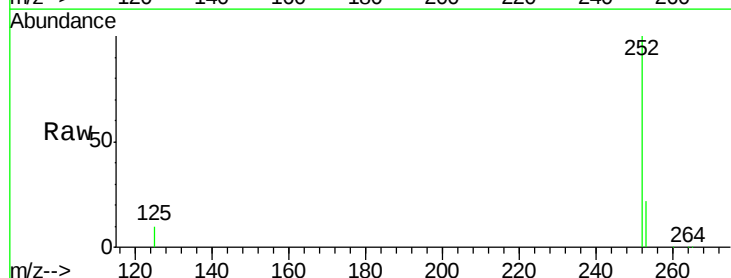
Tgt Ion:252 Resp: 216956

Ion Ratio Lower Upper

252 100

253 21.8 19.4 29.2

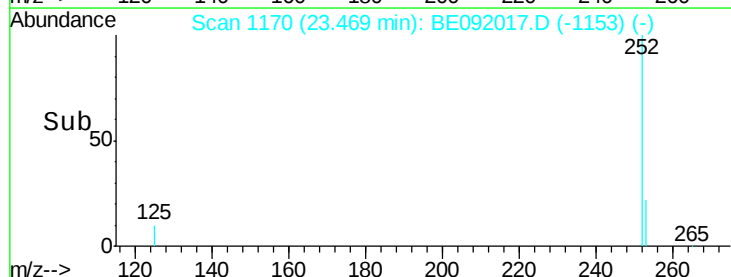
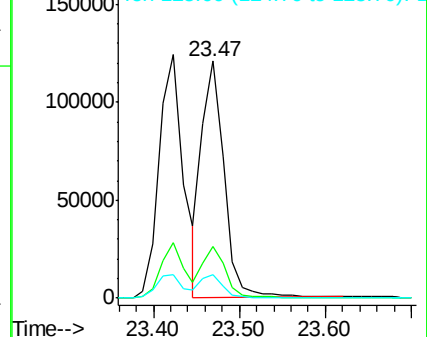
125 10.1 8.3 12.5

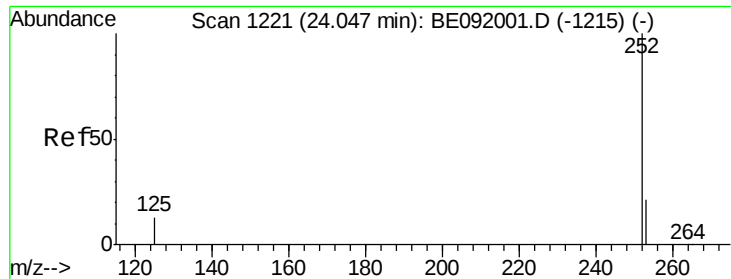


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#43

Benzo(a)pyrene

Concen: 4.47 ng

RT: 24.05 min Scan# 1220

Delta R.T. -0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD

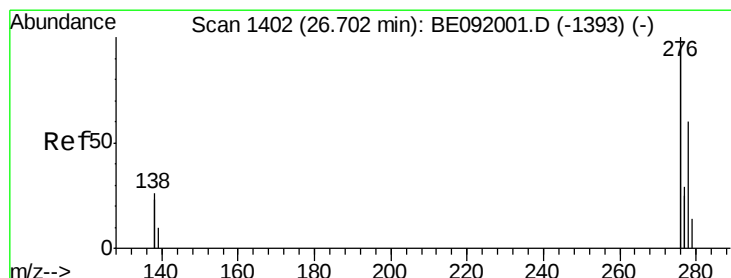
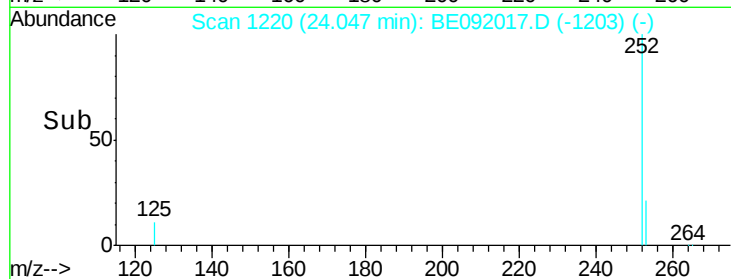
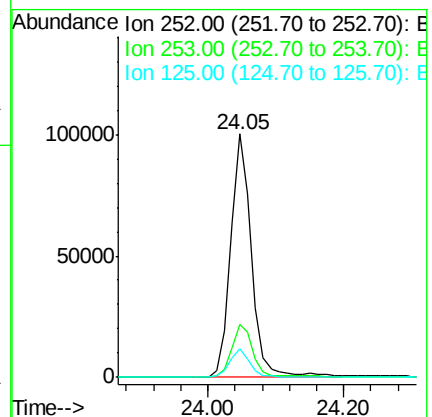
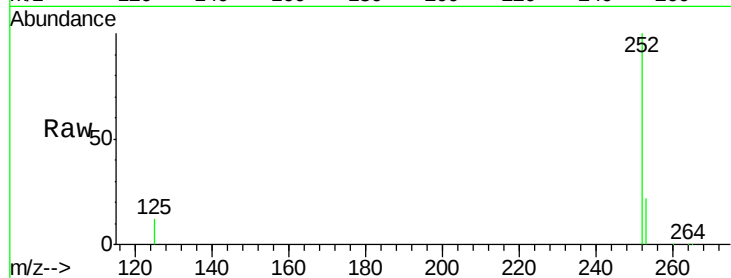
Tgt Ion: 252 Resp: 215549

Ion Ratio Lower Upper

252 100

253 21.6 18.9 28.3

125 11.5 10.5 15.7



#44

Dibenzo(a,h)anthracene

Concen: 4.84 ng

RT: 26.70 min Scan# 1401

Delta R.T. 0.00 min

Lab File: BE092017.D

Acq: 22 Jul 2016 22:03

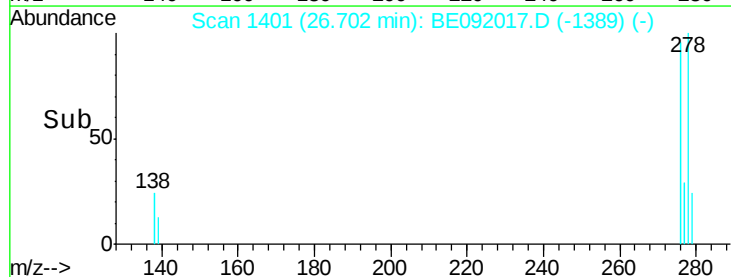
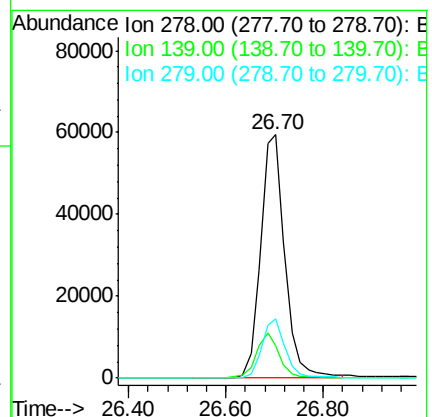
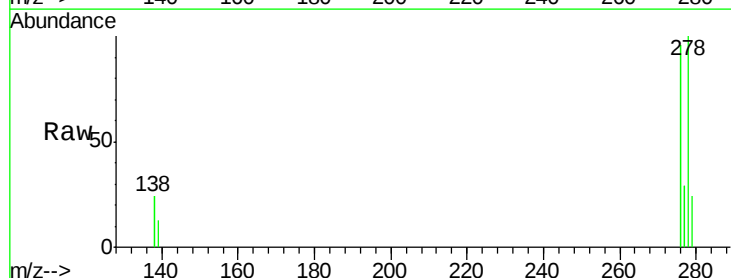
Tgt Ion: 278 Resp: 208435

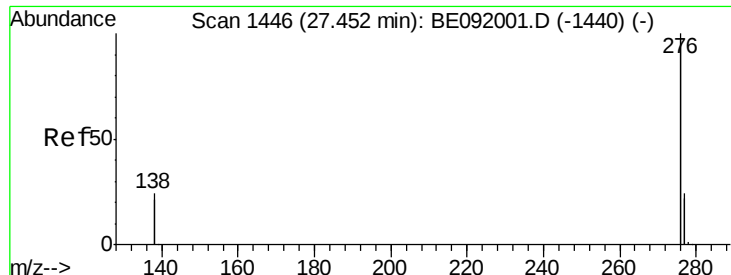
Ion Ratio Lower Upper

278 100

139 13.4 12.6 18.8

279 24.2 20.0 30.0





#45

Benzo(g,h,i)perylene

Concen: 4.80 ng

RT: 27.45 min Scan# 1445

Delta R.T. 0.00 min

Lab File: BE092017.D

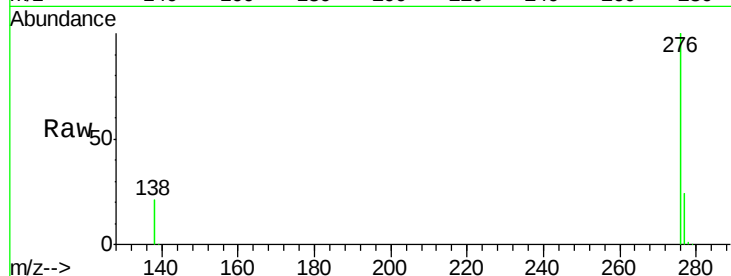
Acq: 22 Jul 2016 22:03

Instrument :

BNA_E

ClientSampleId :

GW-05-5.0-16.0MSD



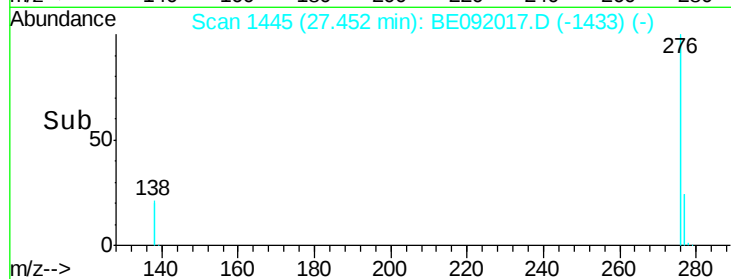
Tgt Ion: 276 Resp: 847314

Ion Ratio Lower Upper

276 100

277 23.8 19.5 29.3

138 20.6 17.7 26.5



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

