

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092210.D
 Acq On : 5 Aug 2016 8:55
 Operator : UM/SJ
 Sample : H4288-22MS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0MS

Manual Integrations
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Quant Time: Aug 05 17:51:19 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 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12699	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	57085	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	30606	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	68420	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	80672	5.00	ng	0.00
28) Perylene-d12	24.14	264	87143	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	13151	4.03	ng	0.00
5) Phenol-d6	7.35	99	11690	2.69	ng	0.00
7) Nitrobenzene-d5	9.34	82	15226	3.38	ng	-0.01
11) 2,4,6-Tribromophenol	16.32	330	8212	8.26	ng	-0.01
12) 2-Fluorobiphenyl	13.45	172	32150	3.31	ng	-0.01
24) Terphenyl-d14	20.19	244	45585	3.93	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	3227	1.87	ng	# 52
3) n-Nitrosodimethylamine	3.78	42	4526	1.94	ng	92
8) Naphthalene	11.03	128	41143	3.35	ng	95
9) 2-Methylnaphthalene	12.64	142	27948	3.45	ng	89
13) Acenaphthylene	14.54	152	180992	3.35	ng	98
14) Acenaphthene	14.90	154	28065	3.26	ng	# 92
15) Fluorene	15.88	166	36716	3.36	ng	100
17) Hexachlorobenzene	16.89	284	9279	2.77	ng	# 38
18) Pentachlorophenol	17.24	266	9051	7.21	ng	# 83
19) Phenanthrene	17.60	178	69766	3.74	ng	99
20) Anthracene	17.70	178	61734	3.39	ng	98
21) Fluoranthene	19.63	202	291034	3.48	ng	97
23) Pvrene	19.99	202	309440	3.67	ng	97
25) Benzo(a)anthracene	21.72	228	329526	3.72	ng	98
26) Chrysene	21.77	228	301248m	3.39	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	381753	3.96	ng	100
29) Benzo(b)fluoranthene	23.40	252	84046	3.53	ng	98
30) Benzo(k)fluoranthene	23.45	252	81932	3.59	ng	96
31) Benzo(a)pvrene	24.02	252	78757	3.59	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	79342	3.79	ng	# 92
33) Benzo(g,h,i)perylene	27.42	276	323845	3.63	ng	95

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

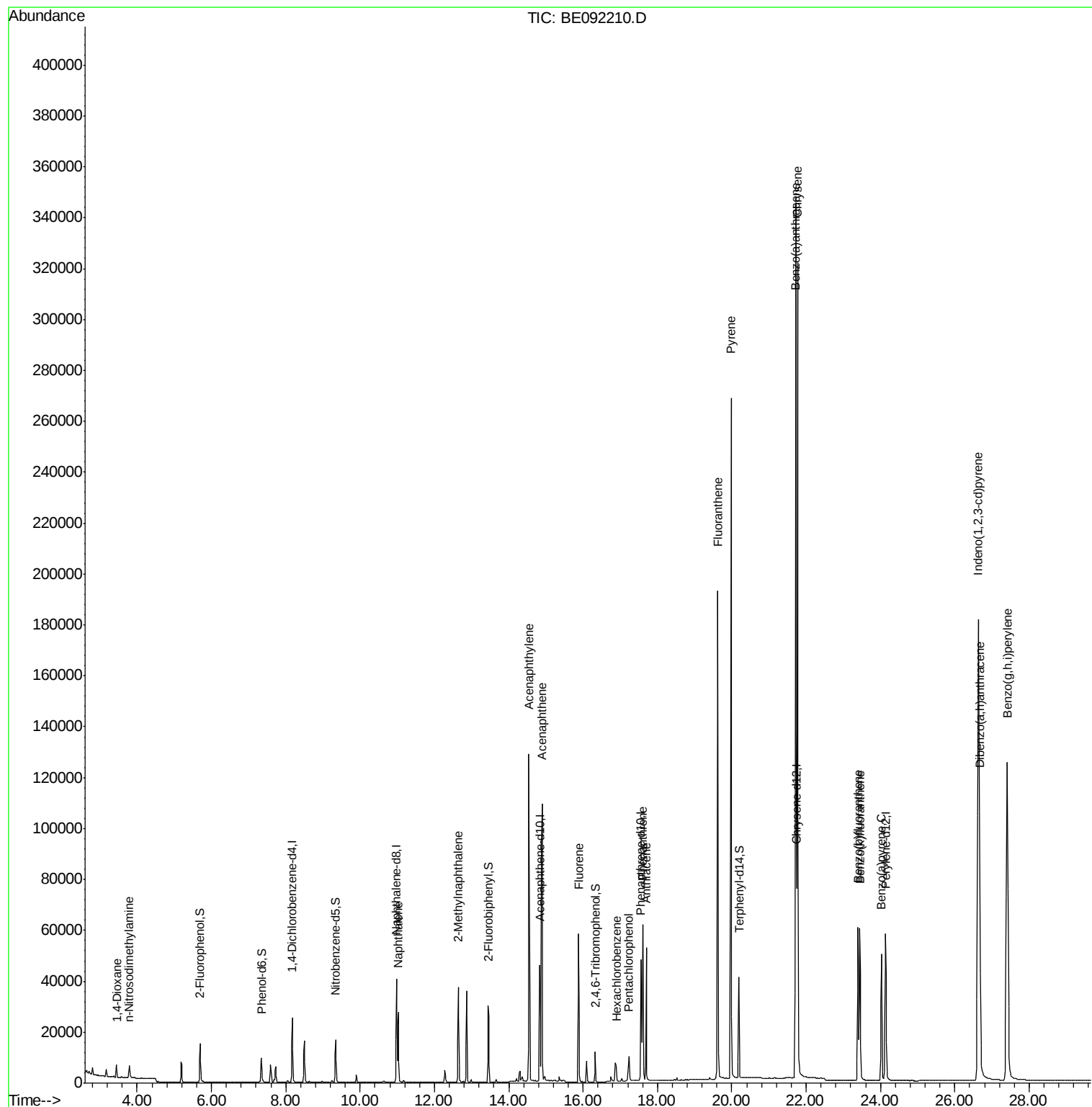
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
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Misc :
ALS Vial : 25 Sample Multiplier: 1

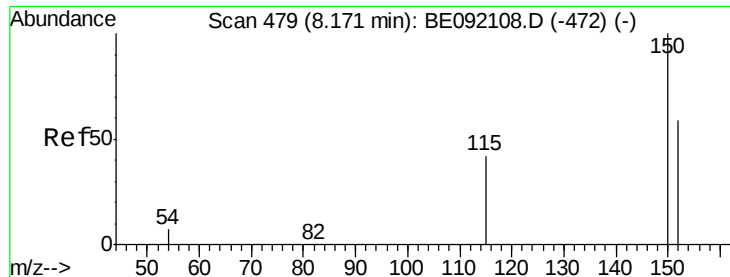
Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

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Quant Time: Aug 05 17:51:19 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 16:59:37 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:152 Resp: 12699

Ion Ratio Lower Upper

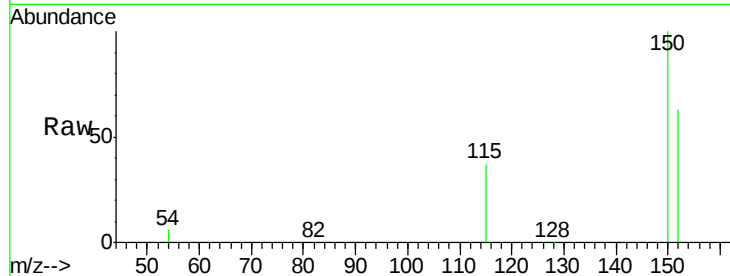
152 100

150 157.6 106.0 159.0

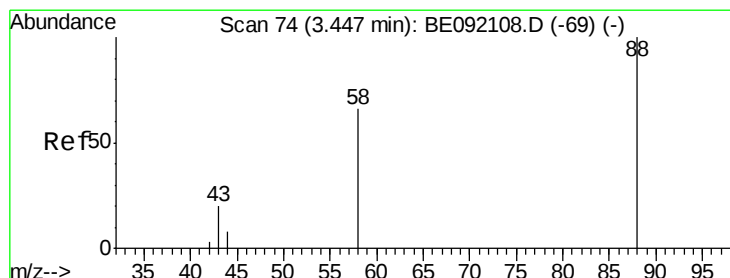
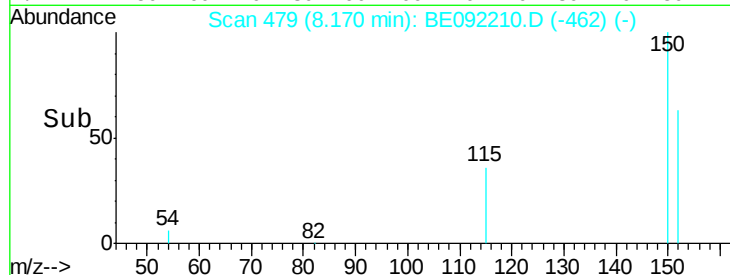
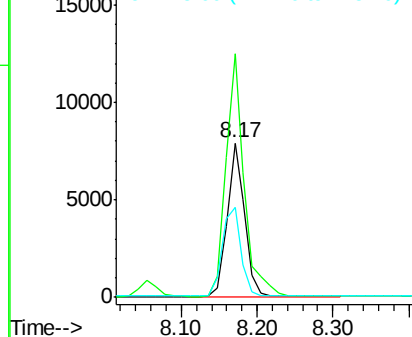
115 58.0 36.9 55.3#

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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: 1.87 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

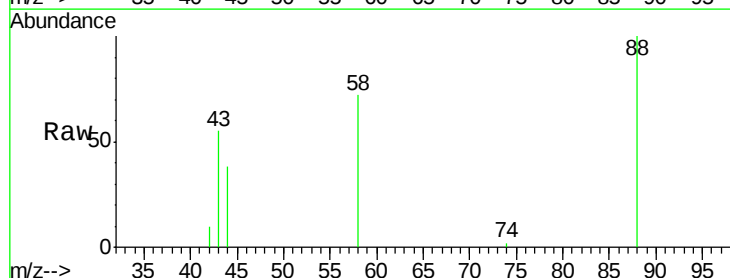
Tgt Ion: 88 Resp: 3227

Ion Ratio Lower Upper

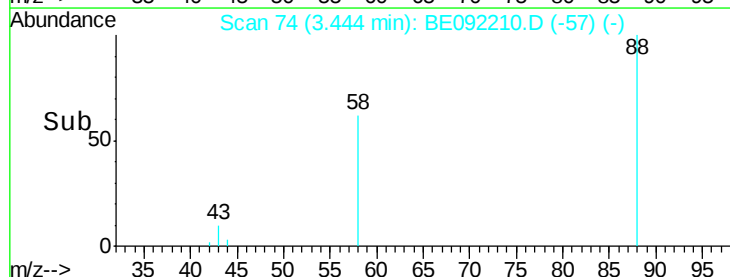
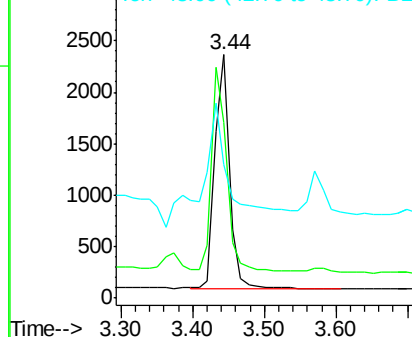
88 100

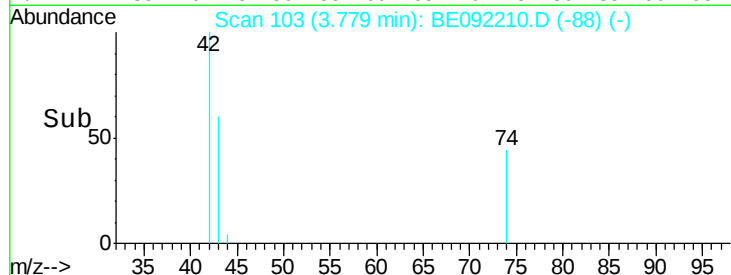
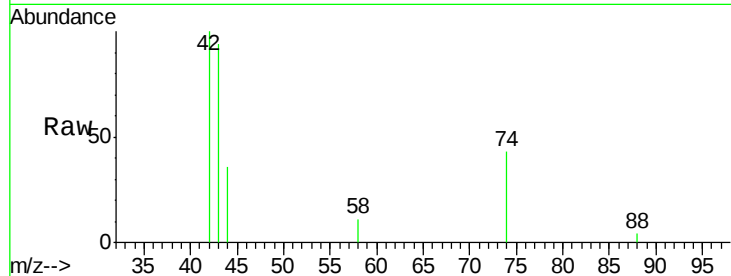
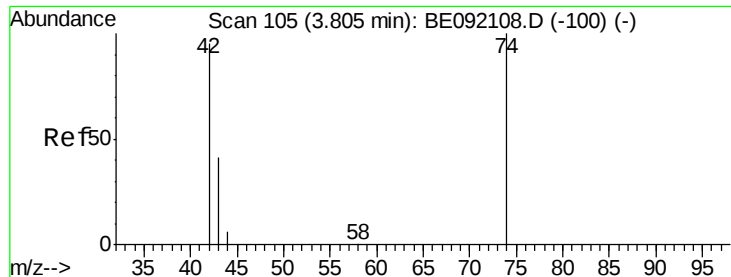
58 88.9 62.1 93.1

43 106.5 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





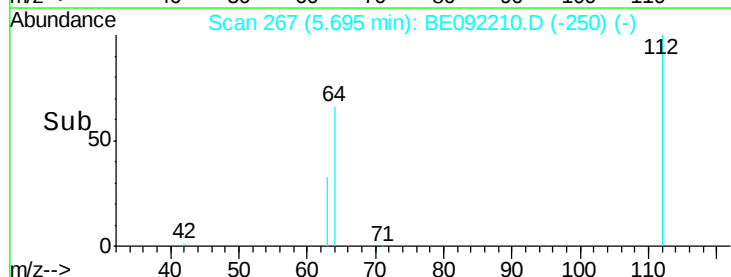
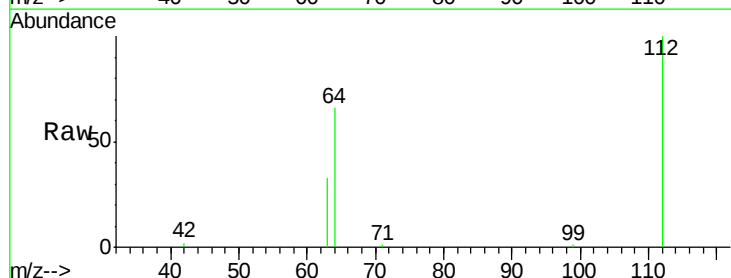
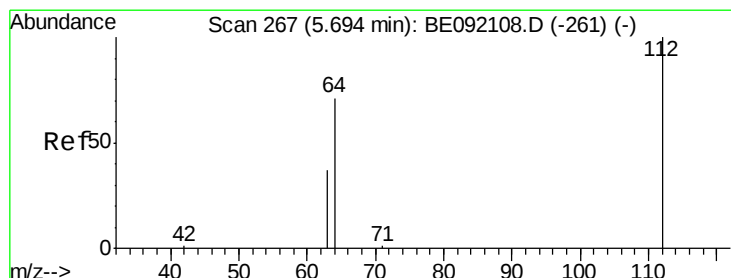
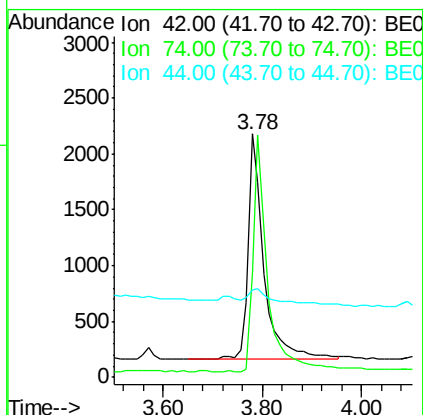
#3
n-Nitrosodimethylamine
Concen: 1.94 ng
RT: 3.78 min Scan# 103
Delta R.T. -0.03 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tot Ion:	42	Resp:	4526
Ion	Ratio	Lower	Upper
42	100		
74	95.0	82.8	124.2
44	11.0	9.0	13.4

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

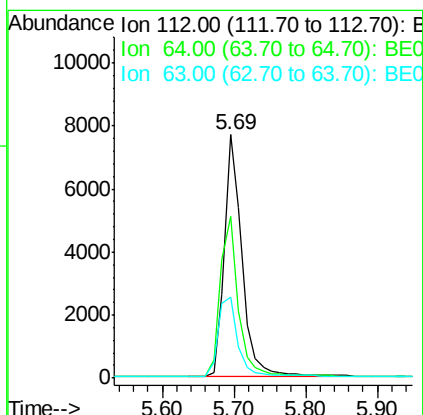
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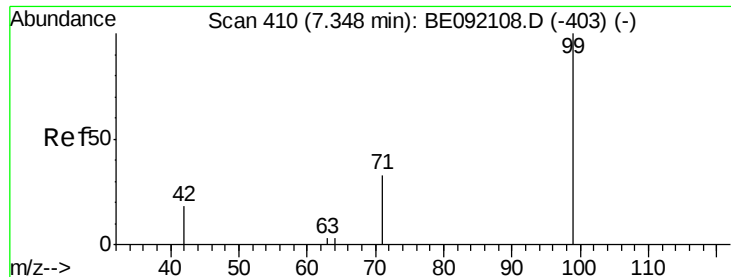
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#4
2-Fluorophenol
Concen: 4.03 ng
RT: 5.69 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion:	112	Resp:	13151
Ion	Ratio	Lower	Upper
112	100		
64	67.6	55.9	83.9
63	36.3	31.1	46.7





#5

Phenol-d6

Concen: 2.69 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

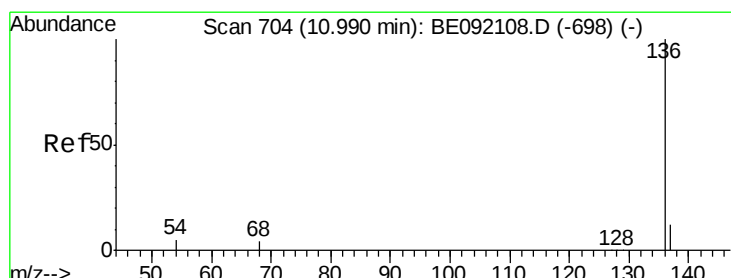
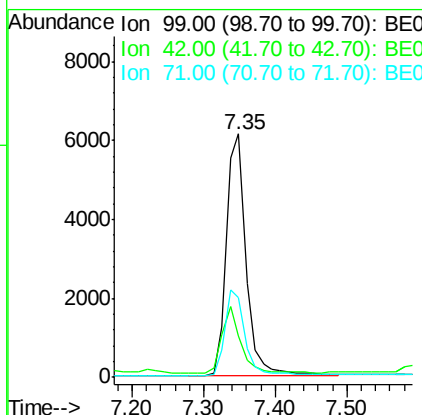
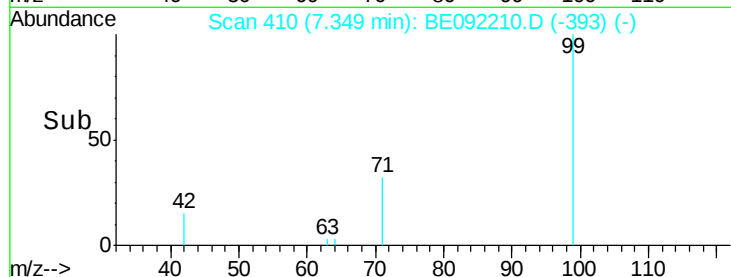
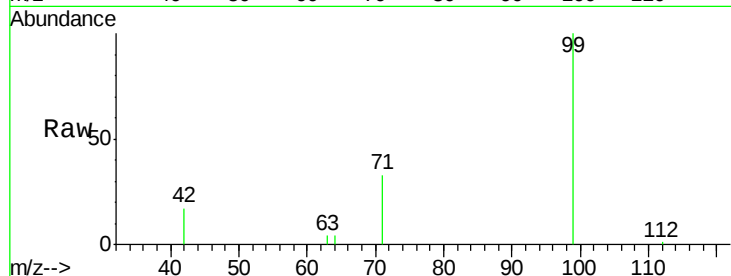
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	99	Resp:	11690
Ion Ratio	Lower	Upper	
99	100		
42	25.6	22.4	33.6
71	35.6	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

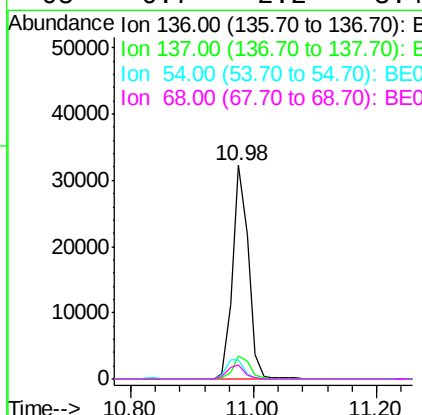
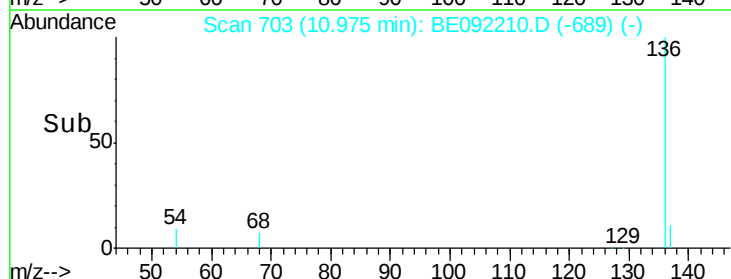
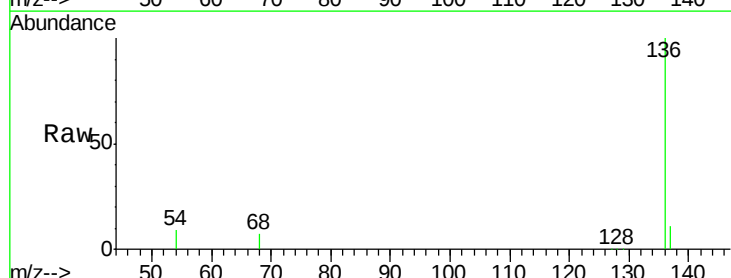
RT: 10.98 min Scan# 703

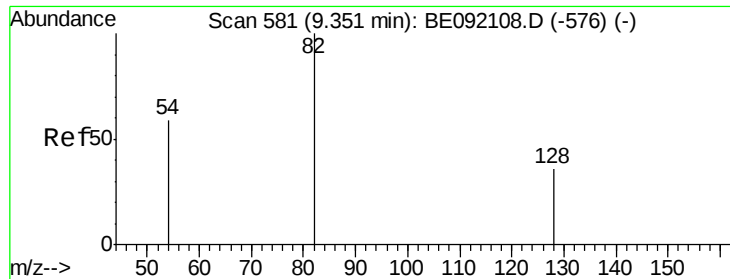
Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	136	Resp:	57085
Ion Ratio	Lower	Upper	
136	100		
137	10.7	9.1	13.7
54	9.3	2.7	4.1#
68	6.7	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.38 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

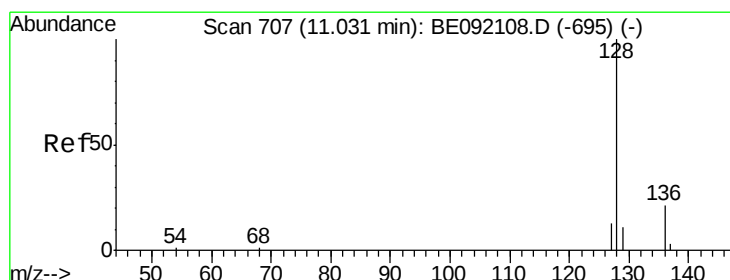
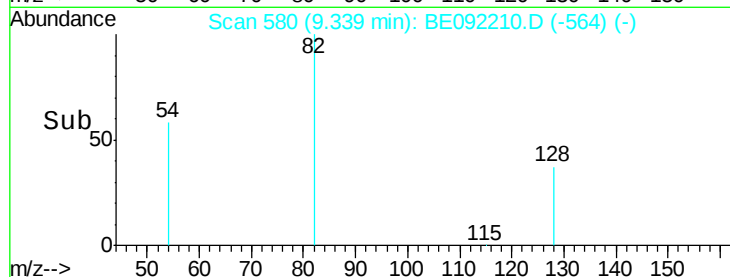
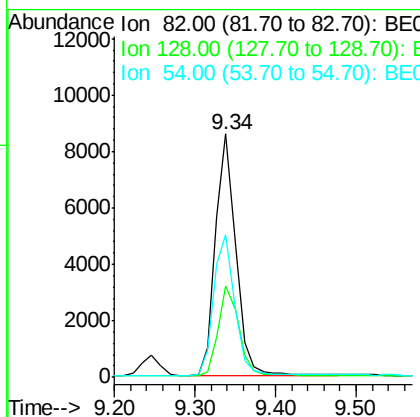
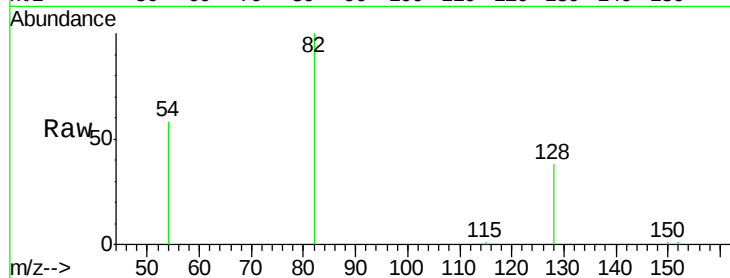
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	82	Resp:	15226
Ion Ratio	Lower	Upper	
82	100		
128	37.7	33.0	49.4
54	58.4	42.6	63.8

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#8

Naphthalene

Concen: 3.35 ng

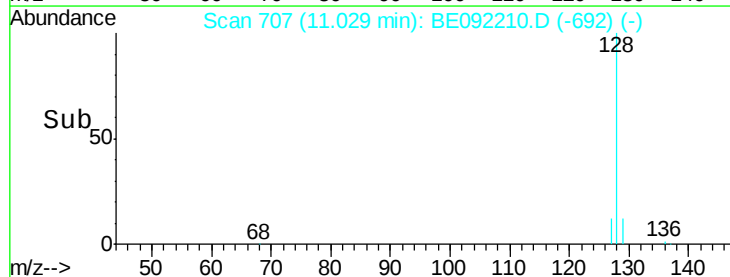
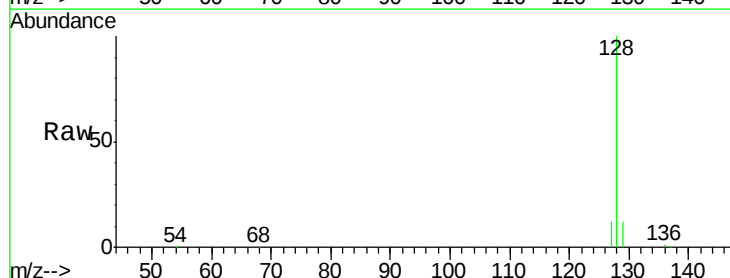
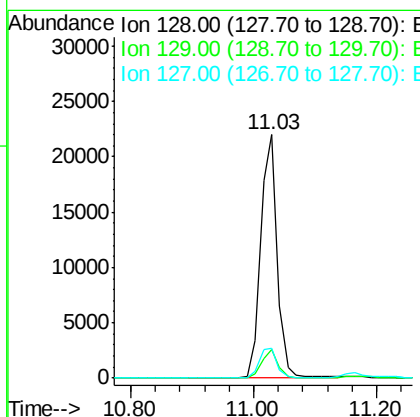
RT: 11.03 min Scan# 707

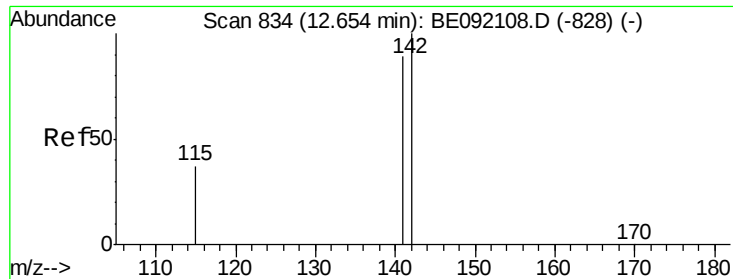
Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	128	Resp:	41143
Ion Ratio	Lower	Upper	
128	100		
129	11.8	11.1	16.7
127	12.1	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.45 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

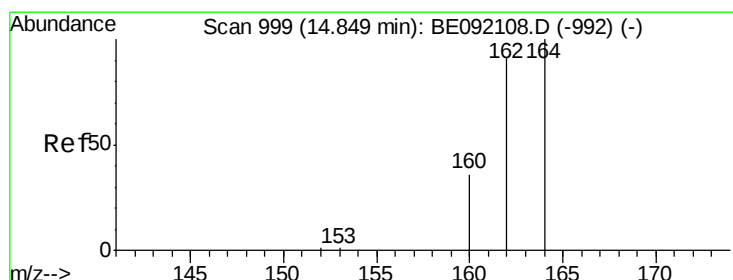
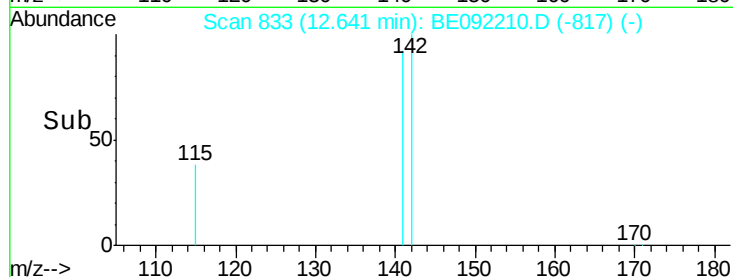
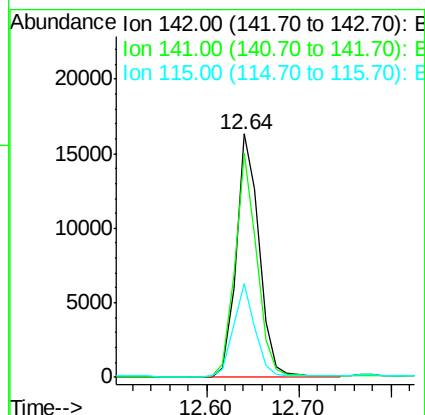
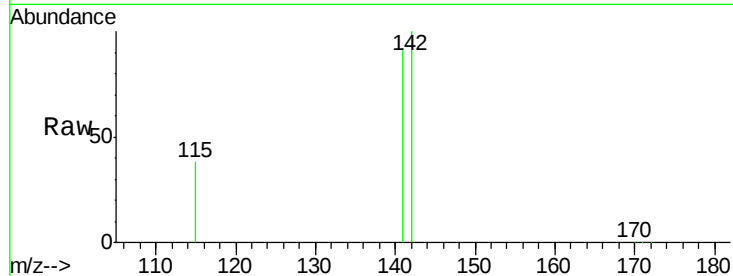
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	142	Resp:	27948
Ion Ratio	Lower	Upper	
142	100		
141	92.4	65.1	97.7
115	38.3	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

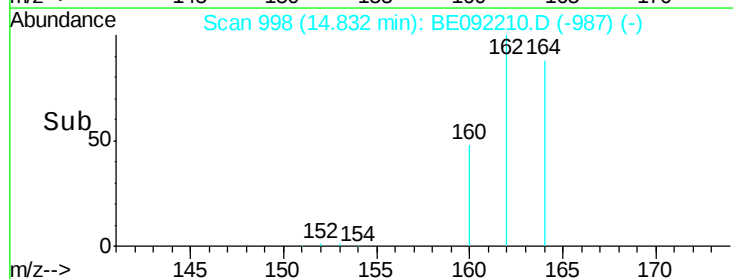
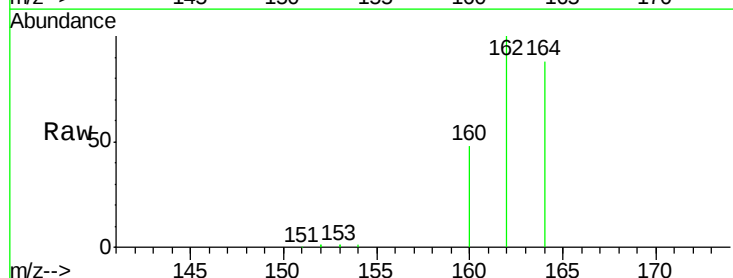
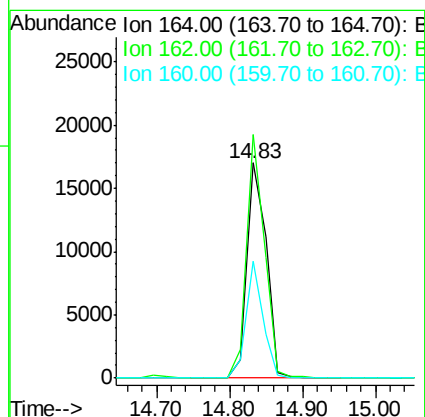
RT: 14.83 min Scan# 998

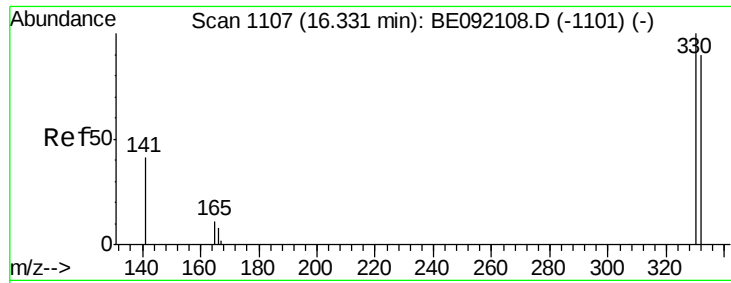
Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	164	Resp:	30606
Ion Ratio	Lower	Upper	
164	100		
162	113.2	69.5	104.3#
160	54.1	27.6	41.4#





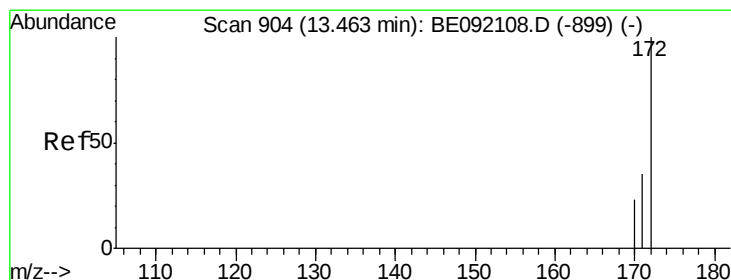
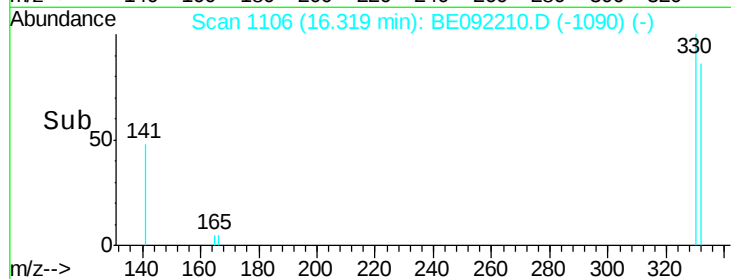
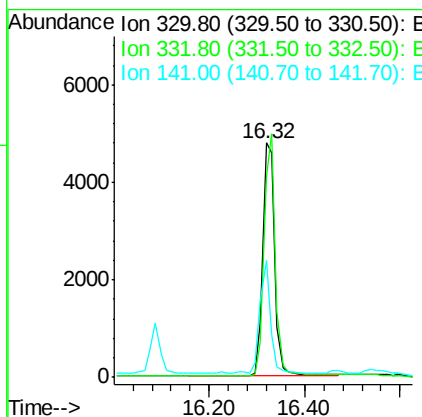
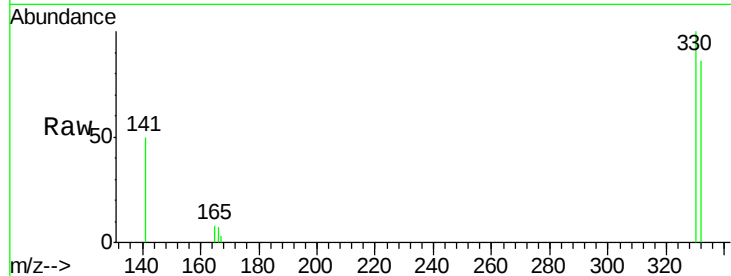
#11
 2,4,6-Tribromophenol
 Concen: 8.26 ng
 RT: 16.32 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	74.2	111.4
141	44.0	139.8	209.8#

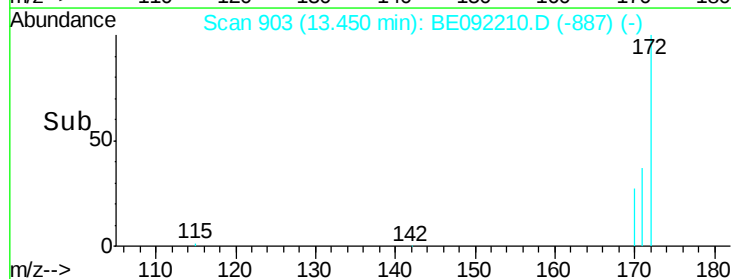
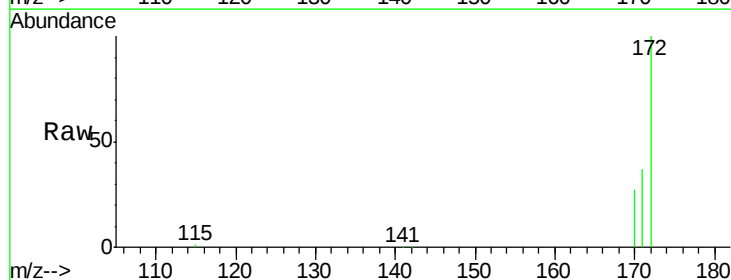
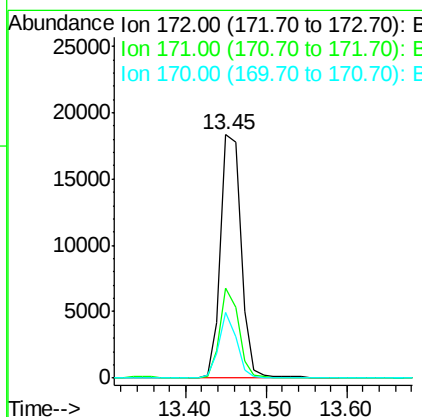
Manual Integrations
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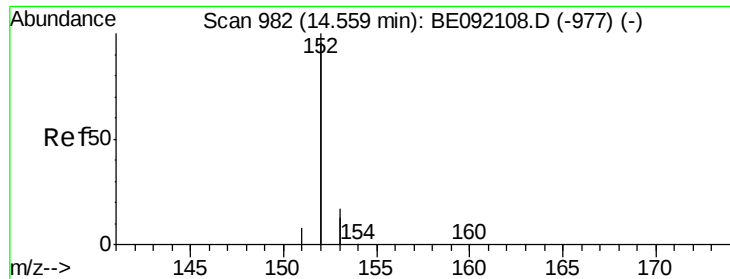
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#12
 2-Fluorobiphenyl
 Concen: 3.31 ng
 RT: 13.45 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	30.3	45.5
170	27.1	21.6	32.4





#13

Acenaphthylene

Concen: 3.35 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

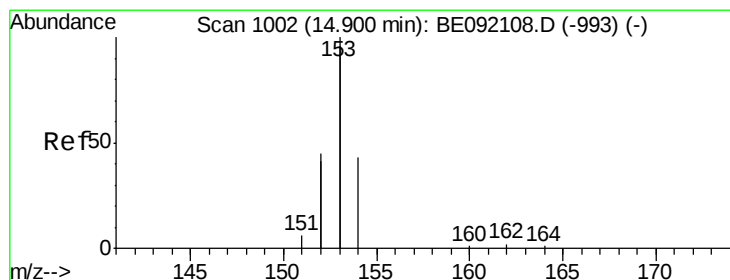
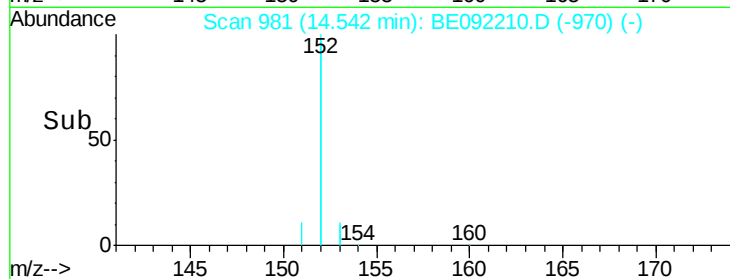
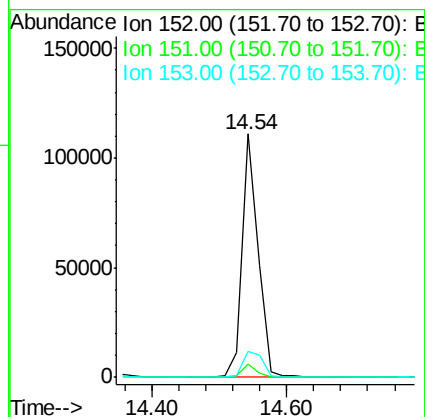
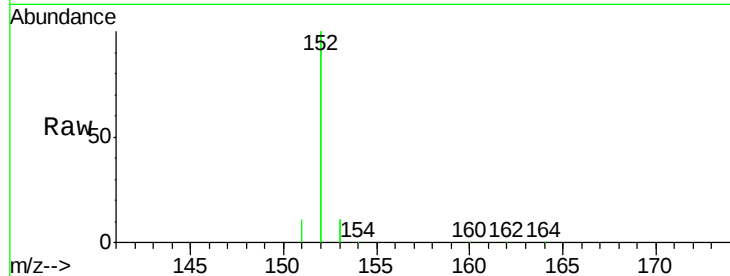
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	152	Resp:	180992
Ion Ratio	Lower	Upper	
152	100		
151	4.9	4.0	6.0
153	13.1	9.6	14.4

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#14

Acenaphthene

Concen: 3.26 ng

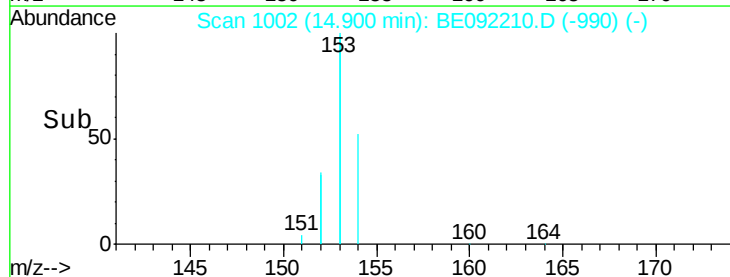
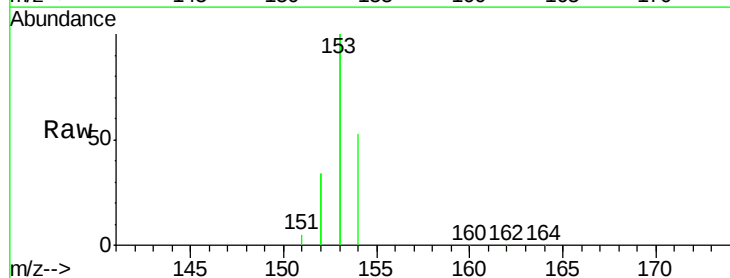
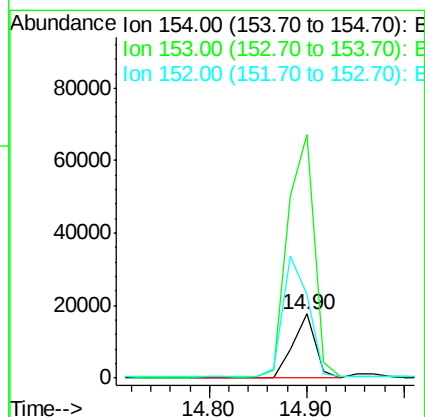
RT: 14.90 min Scan# 1002

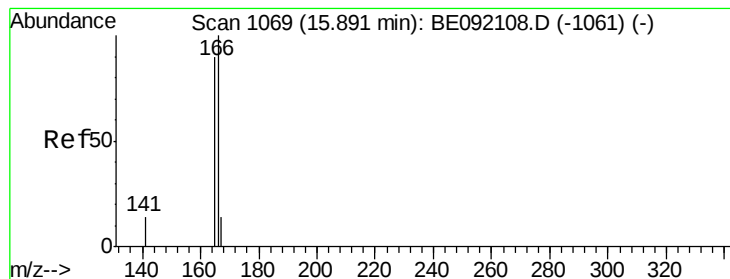
Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	154	Resp:	28065
Ion Ratio	Lower	Upper	
154	100		
153	451.7	345.1	517.7
152	217.9	0.0	0.0#





#15

Fluorene

Concen: 3.36 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

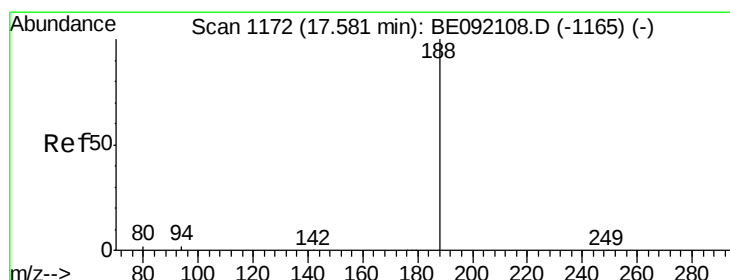
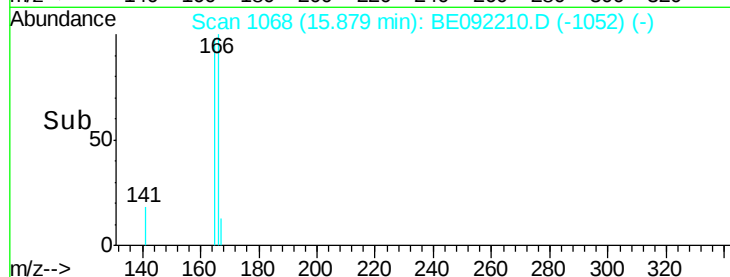
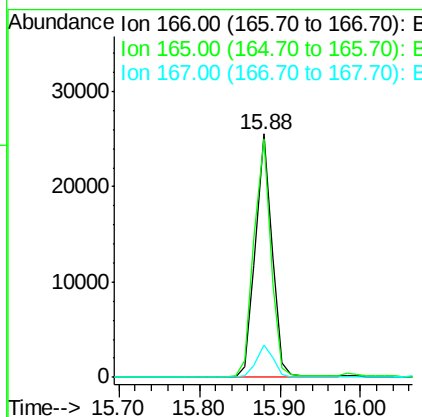
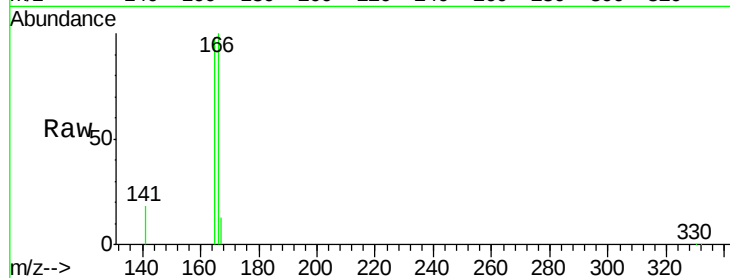
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	166	Resp:	36716
Ion Ratio	Lower	Upper	
166	100		
165	98.6	78.6	118.0
167	13.5	11.1	16.7

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#16

Phenanthrene-d10

Concen: 5.00 ng

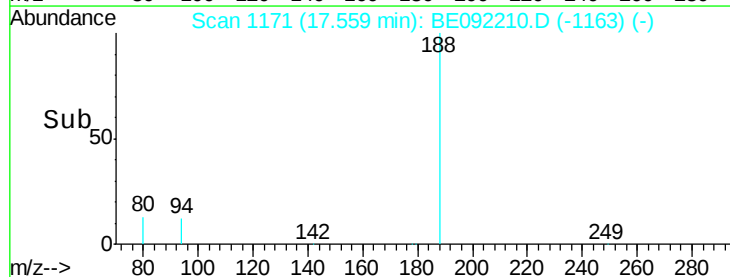
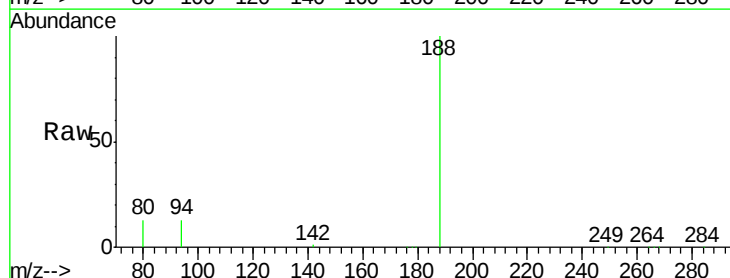
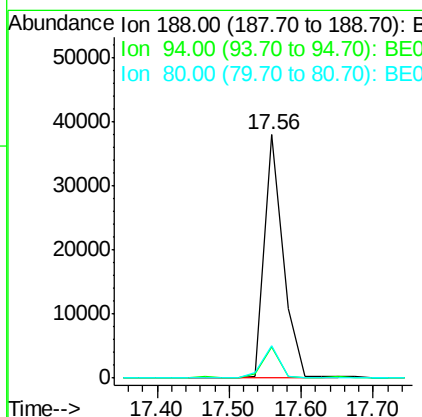
RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	188	Resp:	68420
Ion Ratio	Lower	Upper	
188	100		
94	12.8	3.9	5.9#
80	13.1	3.4	5.0#





#17

Hexachlorobenzene

Concen: 2.77 ng

RT: 16.89 min Scan# 1142

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

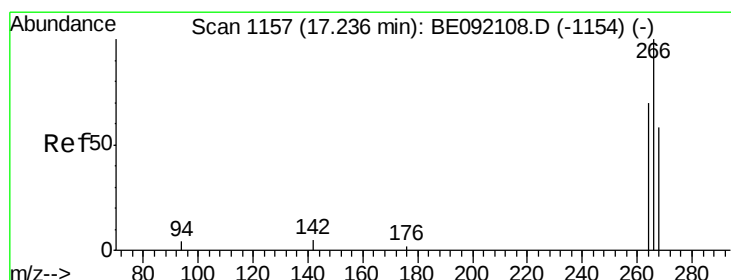
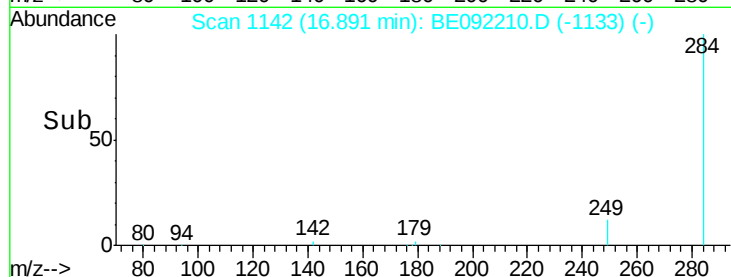
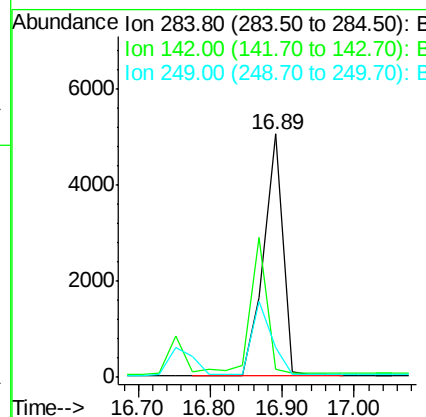
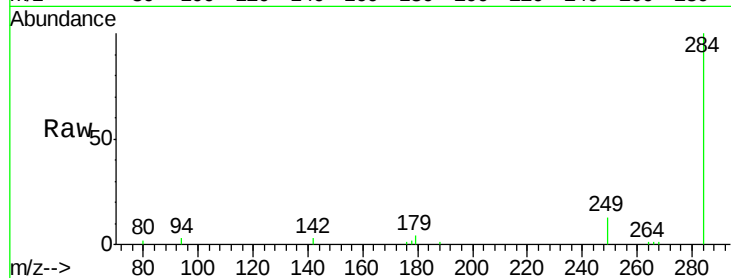
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion:	284	Resp:	9279
Ion Ratio	Lower	Upper	
284	100		
142	0.0	33.3	49.9#
249	0.0	25.4	38.0#

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#18

Pentachlorophenol

Concen: 7.21 ng

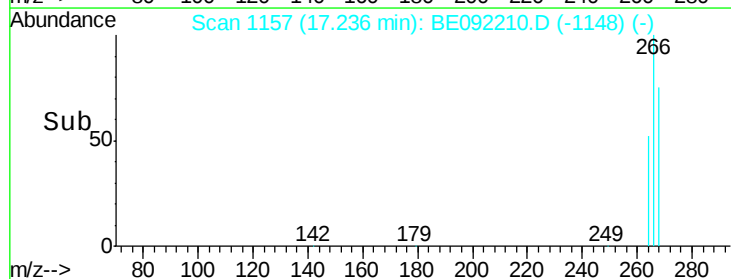
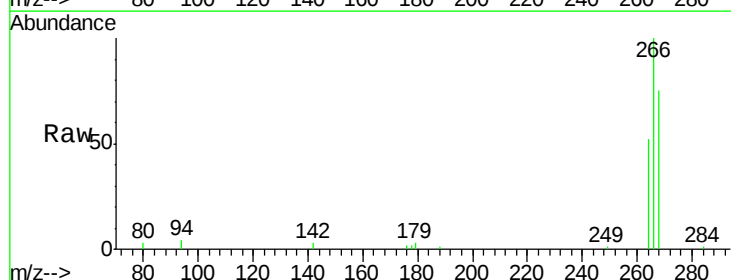
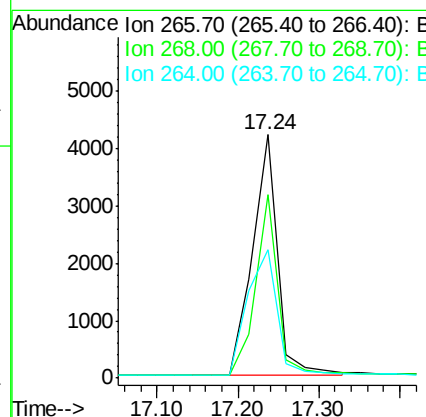
RT: 17.24 min Scan# 1157

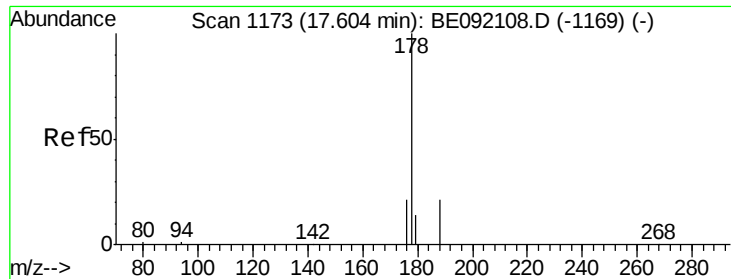
Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	266	Resp:	9051
Ion Ratio	Lower	Upper	
266	100		
268	75.1	62.7	94.1
264	52.5	63.5	95.3#





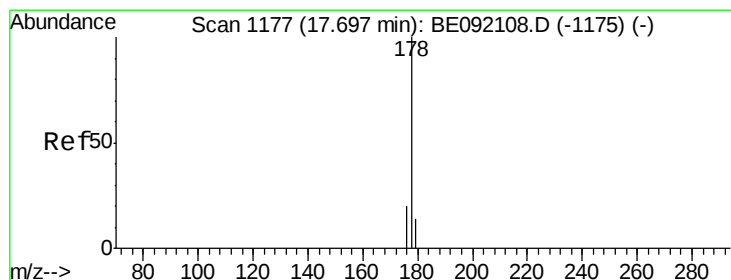
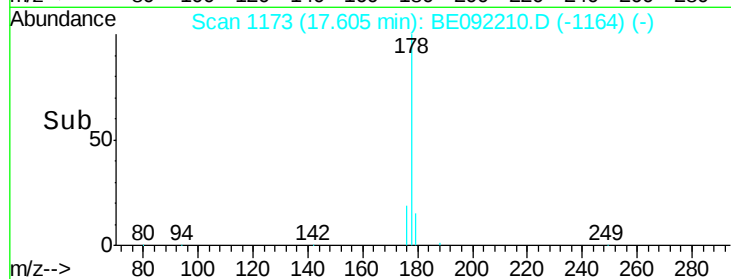
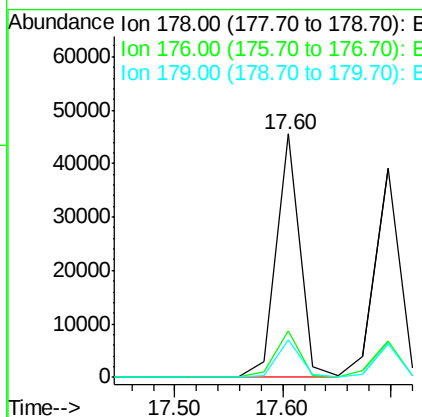
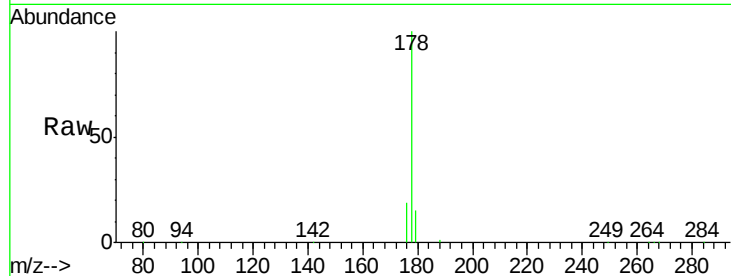
#19
Phenanthrene
Concen: 3.74 ng
RT: 17.60 min Scan# 1173
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	15.1	12.7	19.1

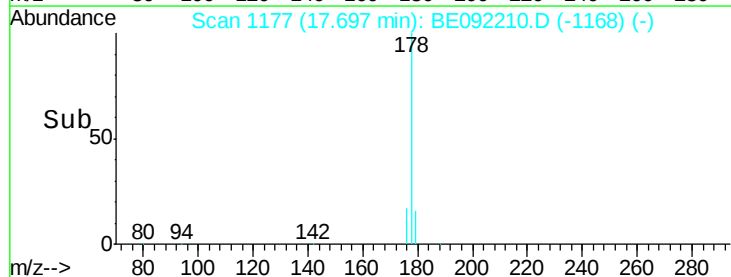
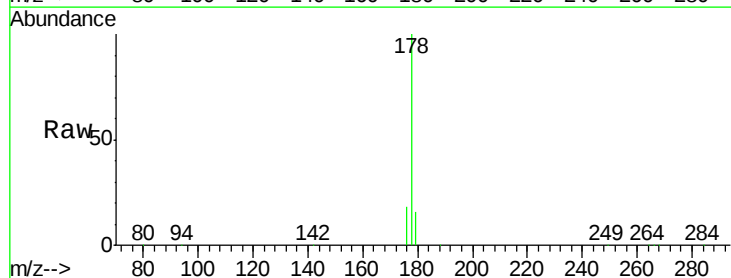
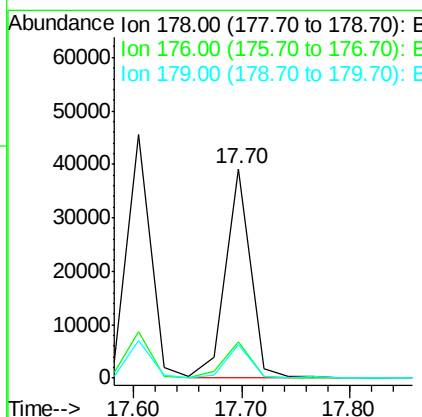
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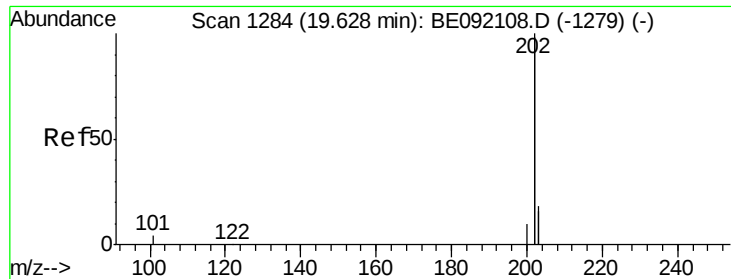
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#20
Anthracene
Concen: 3.39 ng
RT: 17.70 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.2	22.8
179	15.8	12.2	18.4





#21

Fluoranthene

Concen: 3.48 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

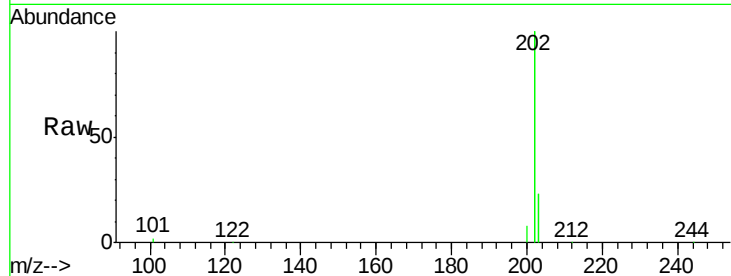
ClientSampleId :

GW-64-9.0-15.0MS

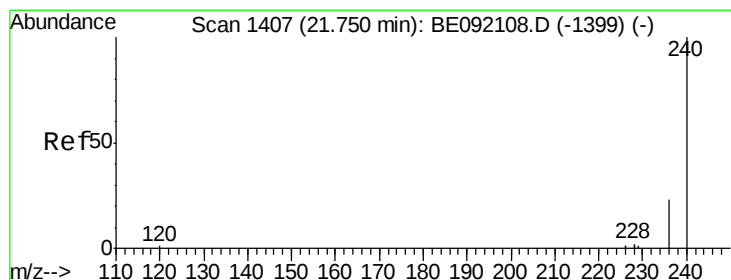
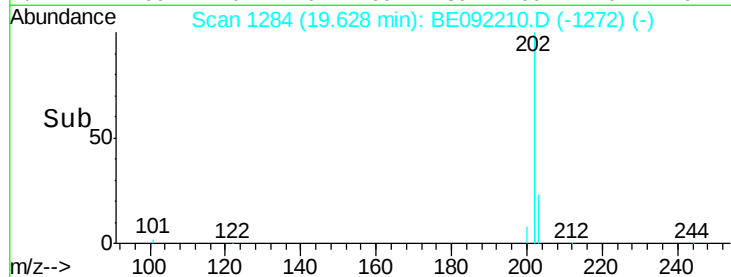
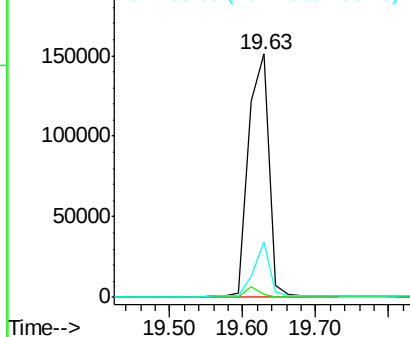
Tot Ion:	202	Resp:	291034
Ion Ratio	Lower	Upper	
202	100		
101	3.0	2.2	3.2
203	17.6	13.0	19.4

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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

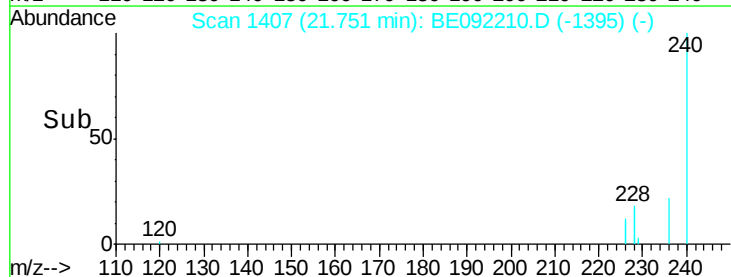
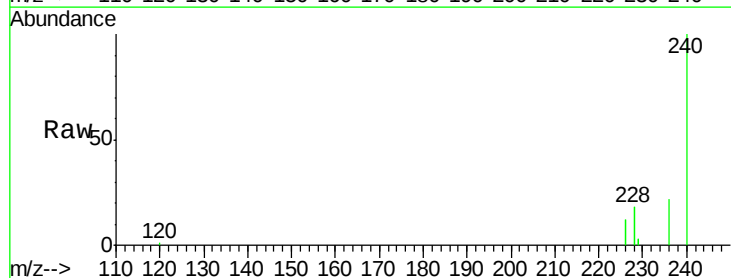
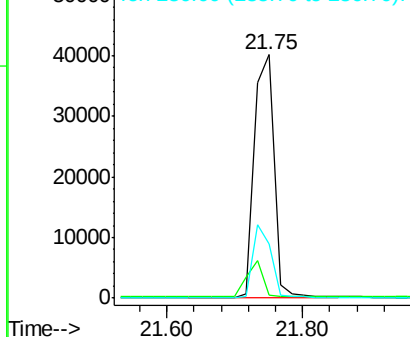
Delta R.T. 0.00 min

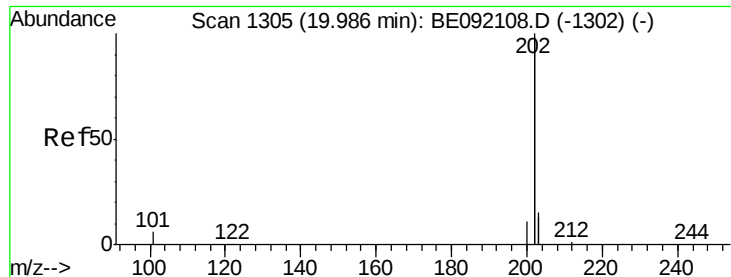
Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	240	Resp:	80672
Ion Ratio	Lower	Upper	
240	100		
120	1.4	0.6	1.0#
236	22.1	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





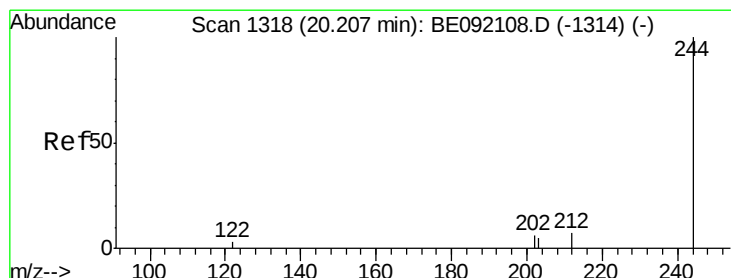
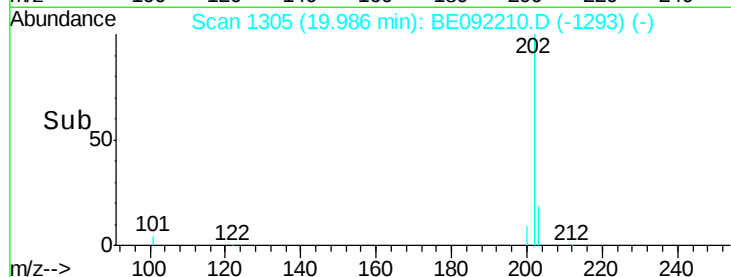
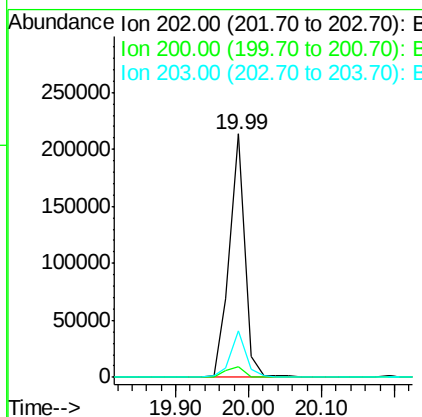
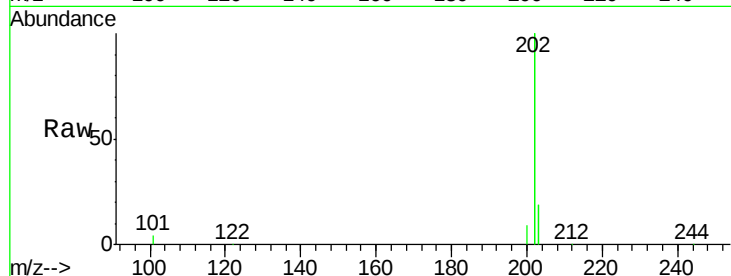
#23
Pvrene
Concen: 3.67 ng
RT: 19.99 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.3	4.4	6.6
203	18.3	13.4	20.0

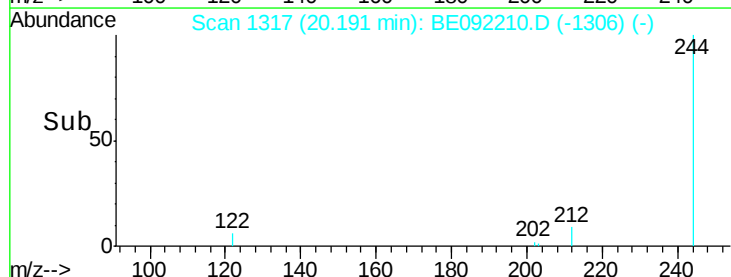
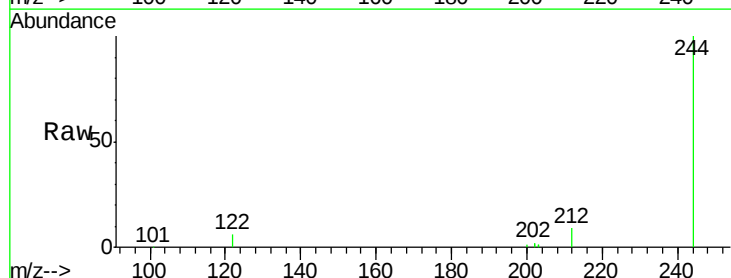
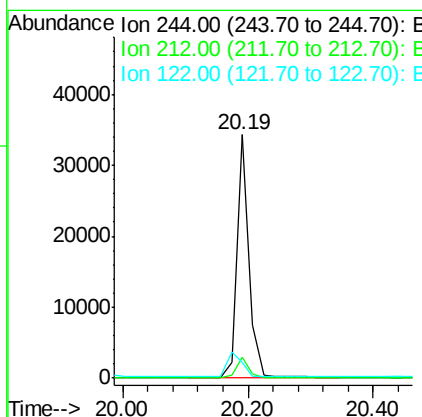
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#24
Terphenyl-d14
Concen: 3.93 ng
RT: 20.19 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.8	9.1	13.7#
122	6.3	11.0	16.4#





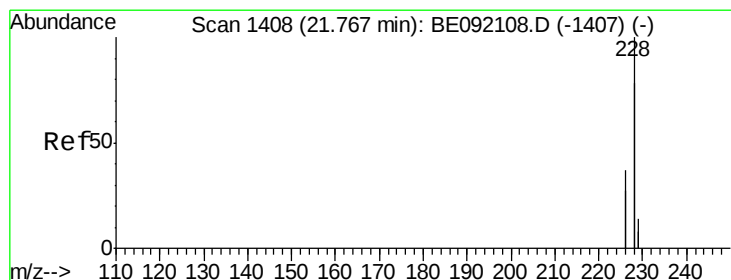
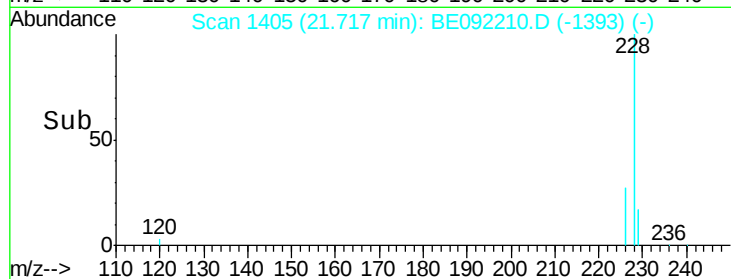
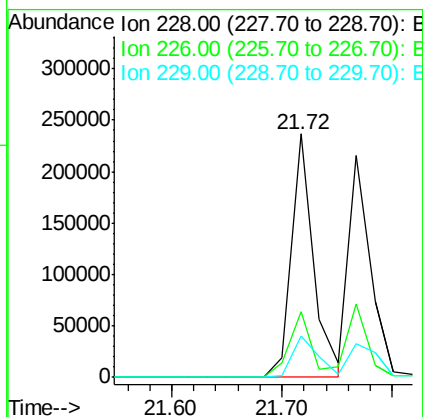
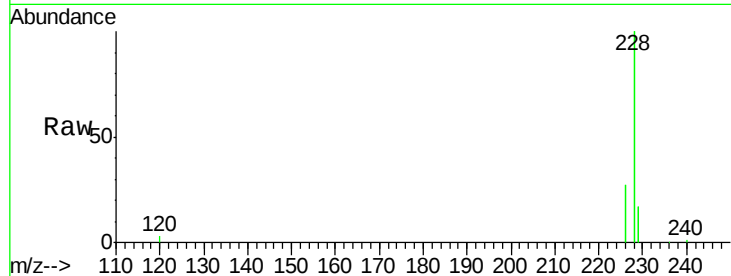
#25
Benzo(a)anthracene
Concen: 3.72 ng
RT: 21.72 min Scan# 1405
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.1	33.1
229	17.2	15.1	22.7

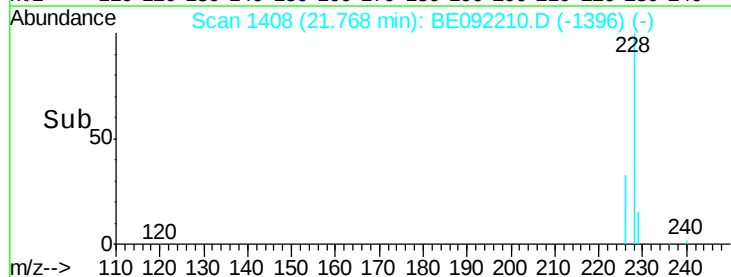
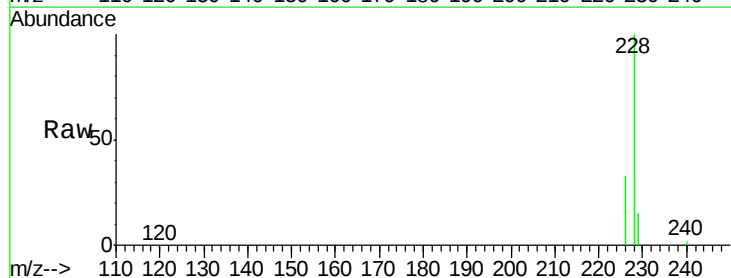
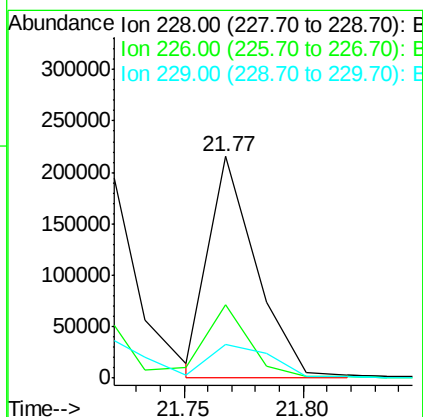
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#26
Chrysene
Concen: 3.39 ng m
RT: 21.77 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.3	22.3	33.5
229	15.1	16.9	25.3#





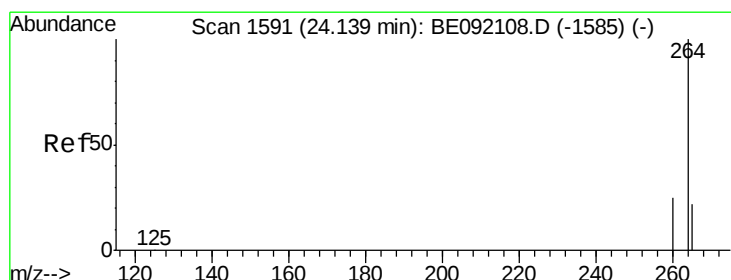
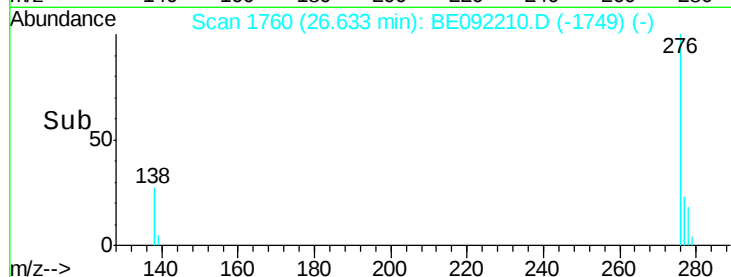
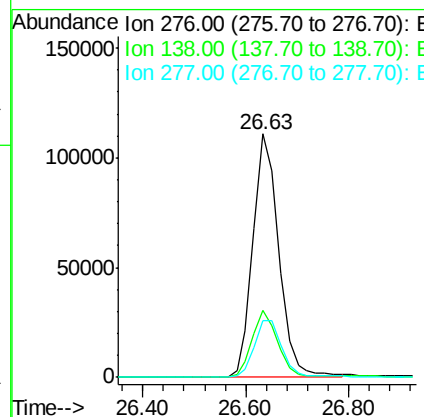
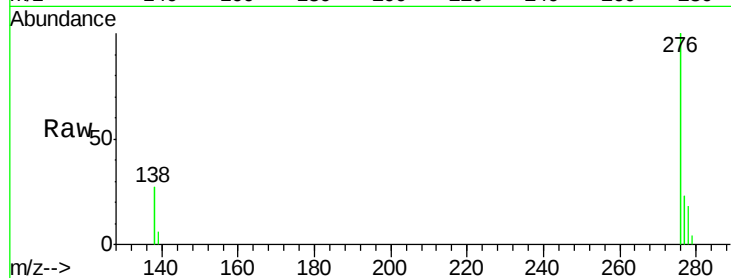
#27
Indeno(1,2,3-cd)pyrene
Concen: 3.96 ng
RT: 26.63 min Scan# 1760
Delta R.T. -0.02 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Instrument :
BNA_E
ClientSampleId :
GW-64-9.0-15.0MS

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	26.9	21.2	31.8
277	24.8	19.8	29.8

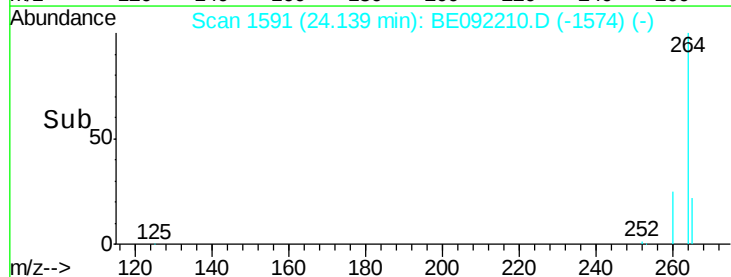
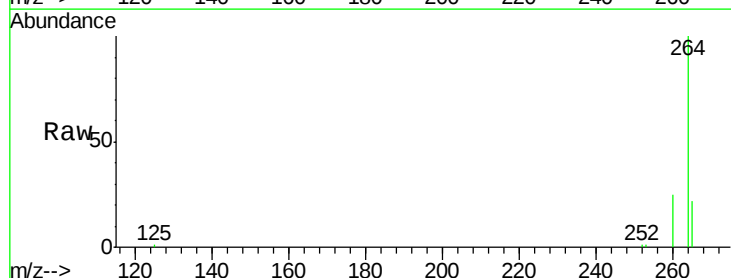
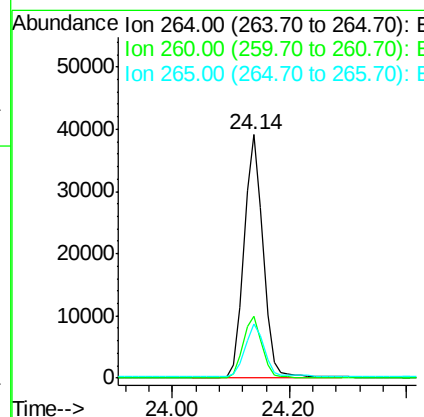
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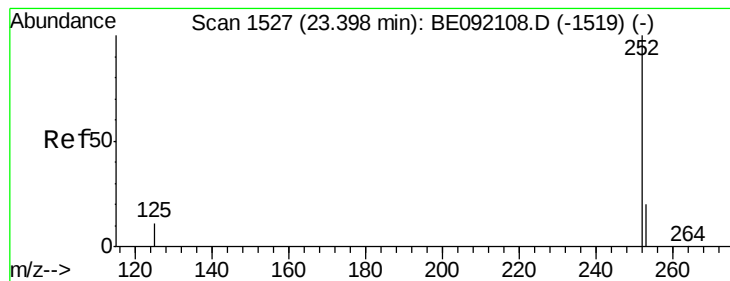
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#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	25.4	20.8	31.2
265	22.3	16.6	25.0





#29

Benzo(b)fluoranthene

Concen: 3.53 ng

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

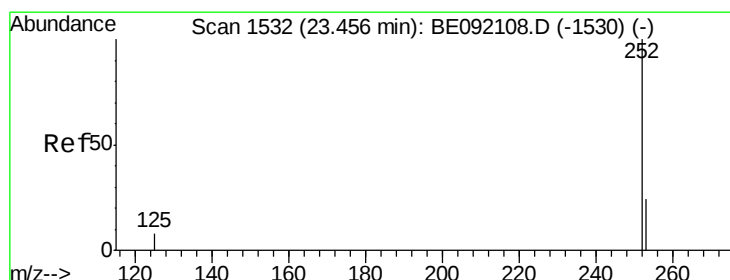
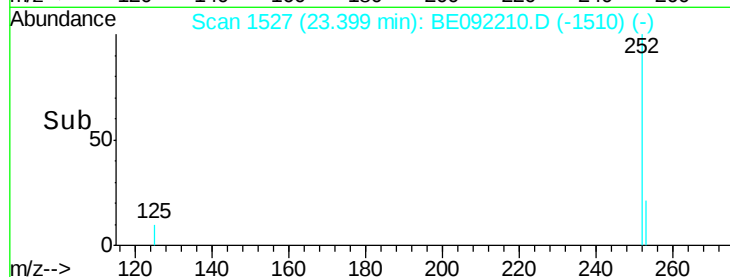
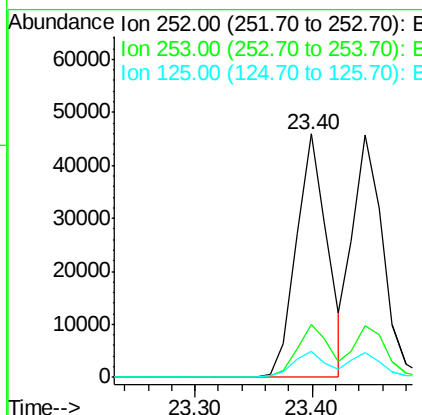
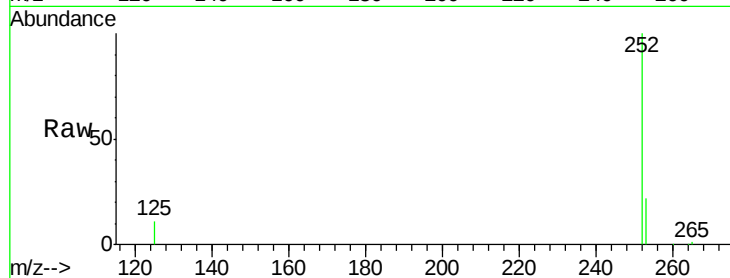
ClientSampleId :

GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.5	10.2	15.2

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#30

Benzo(k)fluoranthene

Concen: 3.59 ng

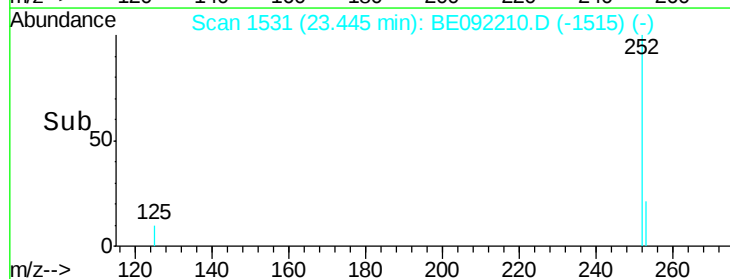
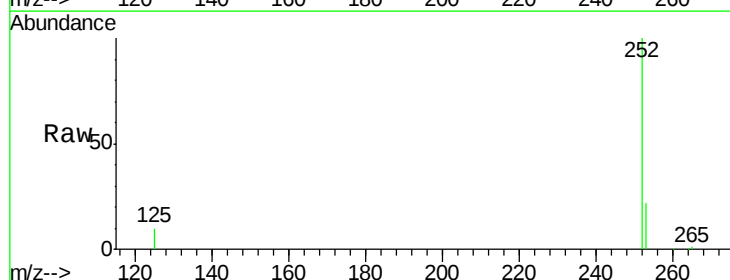
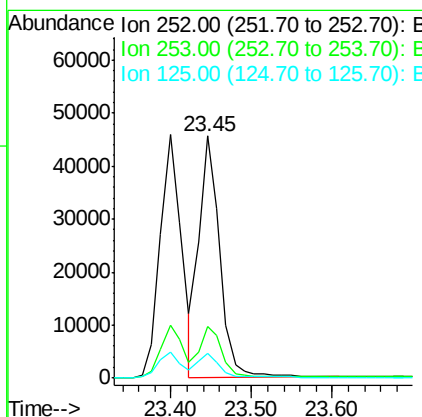
RT: 23.45 min Scan# 1531

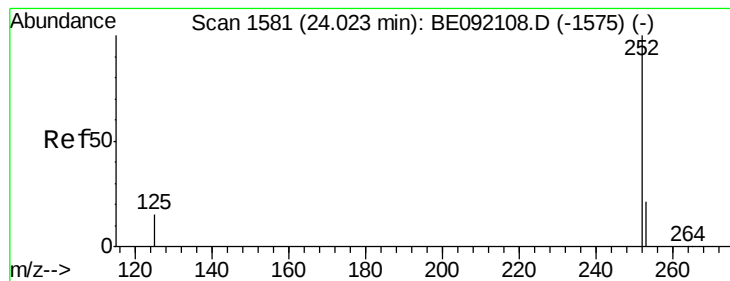
Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	19.4	29.0
125	10.5	8.9	13.3





#31

Benzo(a)pyrene

Concen: 3.59 ng

RT: 24.02 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE092210.D

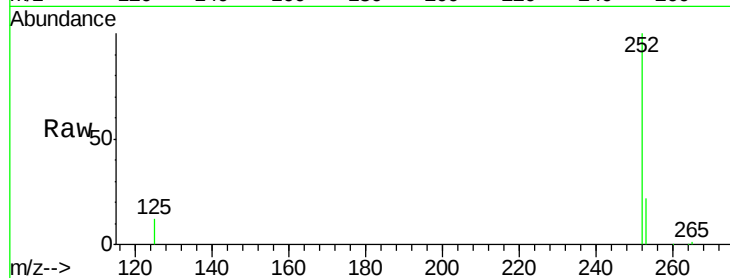
Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

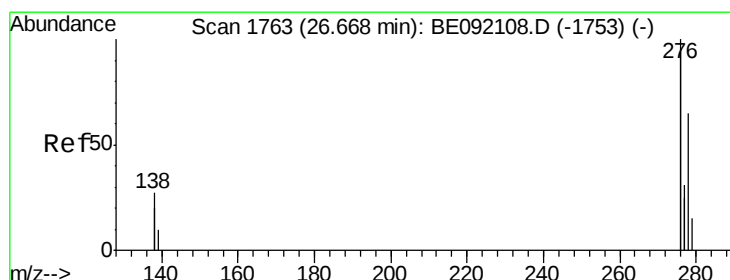
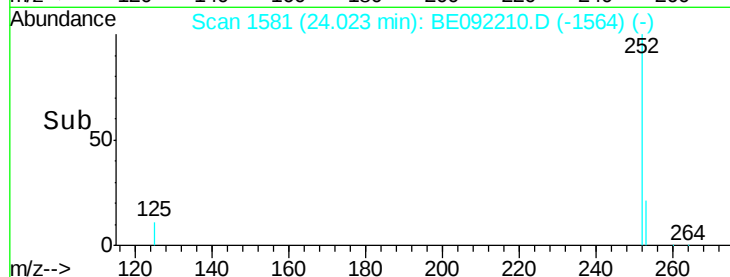
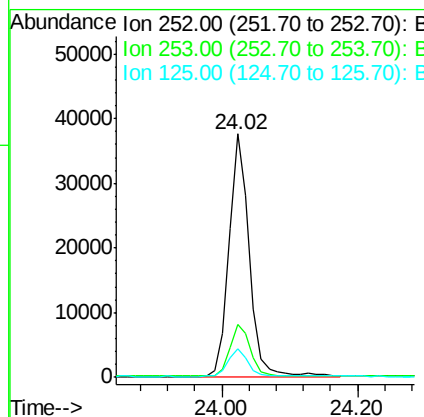
GW-64-9.0-15.0MS



Tot Ion:	252	Resp:	78757
Ion Ratio	Lower	Upper	
252	100		
253	21.8	19.8	29.8
125	11.7	10.4	15.6

Manual Integrations
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#32

Dibenzo(a,h)anthracene

Concen: 3.79 ng

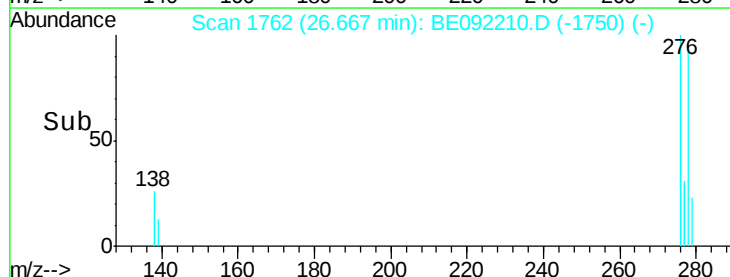
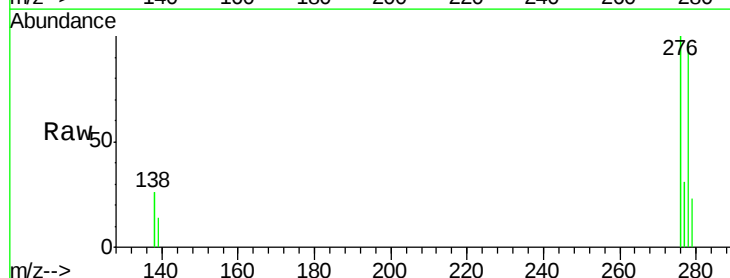
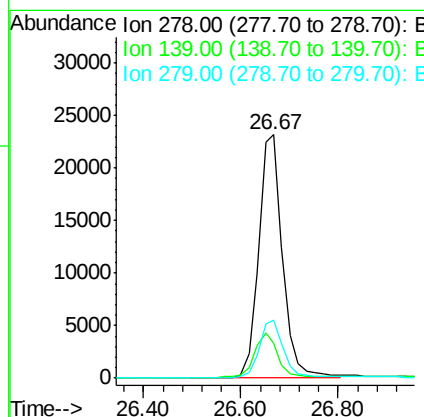
RT: 26.67 min Scan# 1762

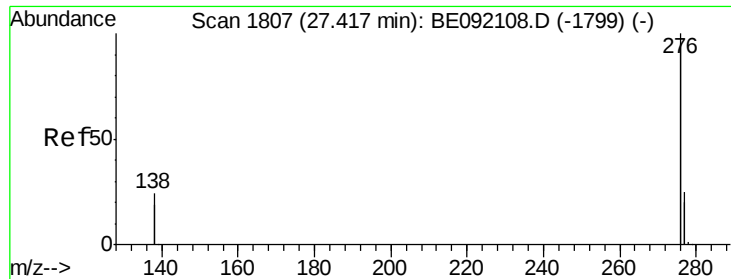
Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion:	278	Resp:	79342
Ion Ratio	Lower	Upper	
278	100		
139	14.2	16.7	25.1#
279	24.1	20.3	30.5





#33
 Benzo(a,h,i)perylene
 Concen: 3.63 ng
 RT: 27.42 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Instrument :
 BNA_E
 ClientSampleId :
 GW-64-9.0-15.0MS

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.5	29.3
138	21.1	20.8	31.2

Manual Integrations
 APPROVED

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