

Data Path : Z:\HPCHEM1\BNA M\DATA\BM011017\
 Data File : BM008746.D
 Acq On : 09 Jan 2017 19:49
 Operator : UM/SJ
 Sample : I1061-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA960

Quant Time: Jan 10 01:02:50 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM010617.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jan 10 00:37:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.96	152	108230	20.00	ng/ul	0.00
18) Naphthalene-d8	10.76	136	439028	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.59	164	354339	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.33	188	820168	20.00	ng/ul	0.00
75) Chrysene-d12	21.49	240	1057304	20.00	ng/ul	0.00
83) Perylene-d12	23.86	264	989725	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.41	96	13749	5.87	ng/uL	0.00
5) Phenol-d5	7.11	99	281450	31.65	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.29	67	196935	32.64	ng/ul	0.00
9) 2-Chlorophenol-d4	7.49	132	201661	32.57	ng/ul	0.00
13) 4-Methylphenol-d8	8.65	113	228203	33.09	ng/ul	0.00
19) Nitrobenzene-d5	9.12	128	95270	35.17	ng/ul	0.00
22) 2-Nitrophenol-d4	9.84	143	110268	37.45	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.37	165	241453	35.61	ng/ul	0.00
29) 4-Chloroaniline-d4	10.90	131	283267	37.72	ng/ul	0.00
43) Dimethylphthalate-d6	14.00	166	847345	36.25	ng/ul	0.00
46) Acenaphthylene-d8	14.28	160	990165	35.92	ng/ul	0.00
51) 4-Nitrophenol-d4	14.77	143	128688	33.66	ng/ul	0.00
57) Fluorene-d10	15.58	176	757048	35.12	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.69	200	147023	34.78	ng/ul	0.00
70) Anthracene-d10	17.43	188	1304824	36.93	ng/ul	0.00
76) Pyrene-d10	19.72	212	1603117	34.41	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.71	264	1507232	37.34	ng/ul	0.00

Target Compounds

						Ovalue
6) Phenol	7.13	94	178774	18.71	ng/ul#	73
10) 2-Chlorophenol	7.52	128	119633	18.86	ng/ul#	76
12) 2,2'-oxybis(1-Chloropropan	8.49	45	303321	27.98	ng/ul#	93
17) Hexachloroethane	9.04	117	58283	17.33	ng/ul	97
27) 2,4-Dichlorophenol	10.40	162	137422	20.47	ng/ul	90
28) Naphthalene	10.81	128	400715	19.97	ng/ul	98
31) Hexachlorobutadiene	11.09	225	164195	27.28	ng/ul	92
45) 2,6-Dinitrotoluene	14.16	165	126903	31.11	ng/ul#	61
49) Acenaphthene	14.65	153	375531	20.08	ng/ul	96
54) 2,4-Dinitrotoluene	14.94	165	195674	31.67	ng/ul#	79
56) Diethylphthalate	15.40	149	634845	25.82	ng/ul	94
58) Fluorene	15.63	166	471162	20.20	ng/ul	99
66) Hexachlorobenzene	16.63	284	233708	24.58	ng/ul	94
68) Pentachlorophenol	16.97	266	266770	44.59	ng/ul	97
71) Anthracene	17.46	178	736732	18.15	ng/ul	99
77) Pyrene	19.74	202	1133842	19.94	ng/ul#	94
78) Butylbenzylphthalate	20.63	149	878410	41.99	ng/ul	88
80) Benzo(a)anthracene	21.48	228	1138541	20.31	ng/ul	99
81) Bis(2-ethylhexyl)phthalate	21.40	149	989377	33.79	ng/ul	99
82) Chrysene	21.53	228	1141019	21.93	ng/ul	99
85) Benzo(b)fluoranthene	23.14	252	1922047	36.42	ng/ul#	96
86) Benzo(k)fluoranthene	23.19	252	1025840	20.11	ng/ul#	97
88) Benzo(a)pyrene	23.76	252	988860	19.65	ng/ul#	97

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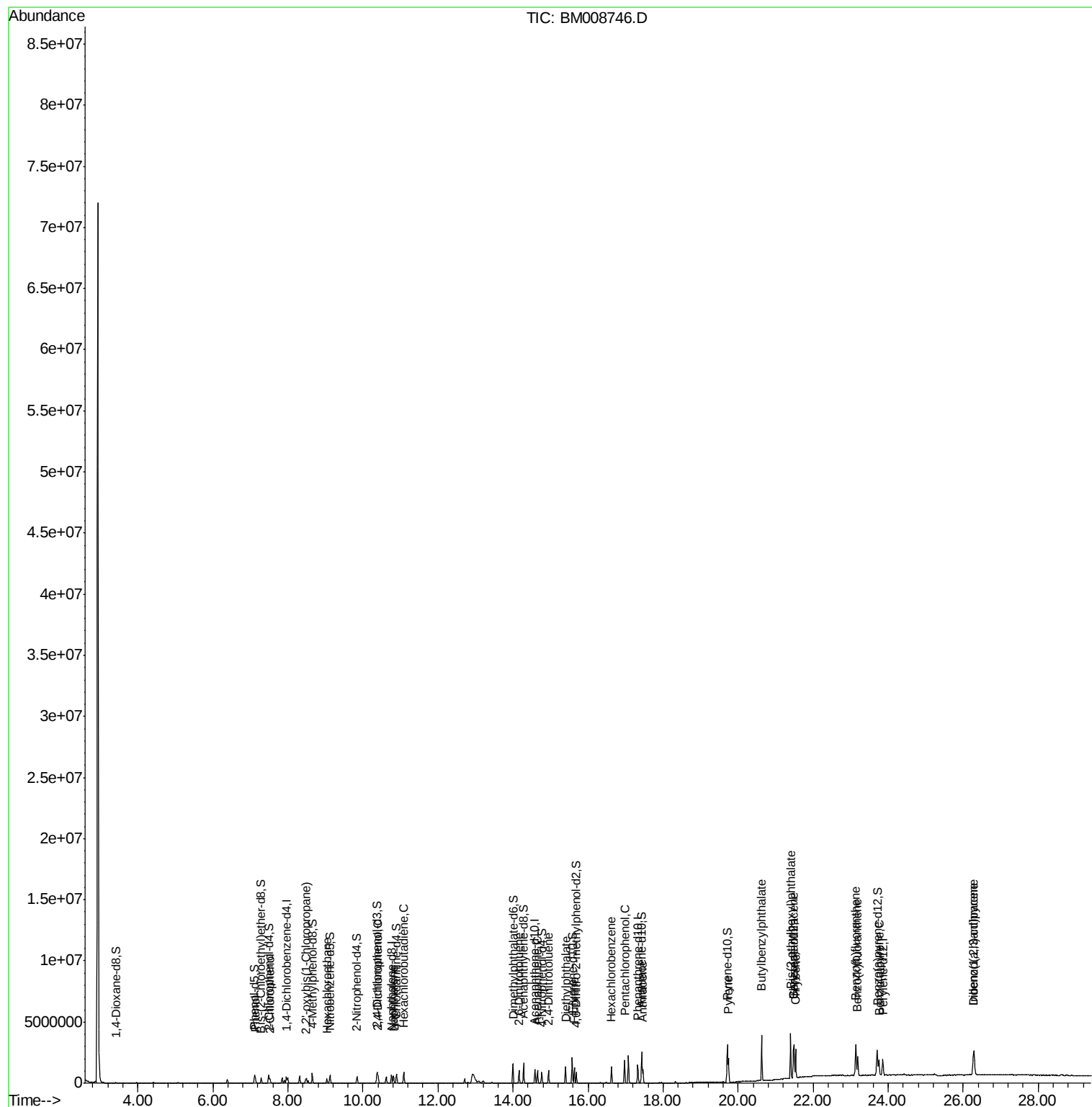
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	26.28	276	1734619	30.40	ng/ul#	92
90) Dibenzo(a,h)anthracene	26.29	278	1281381	26.28	ng/ul#	95

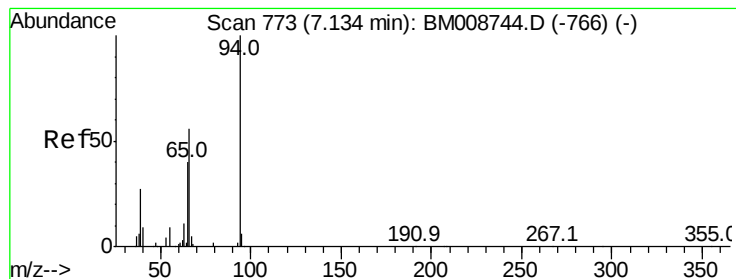
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 18.71 ng/ul

RT: 7.13 min Scan# 773

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampled :

DA960

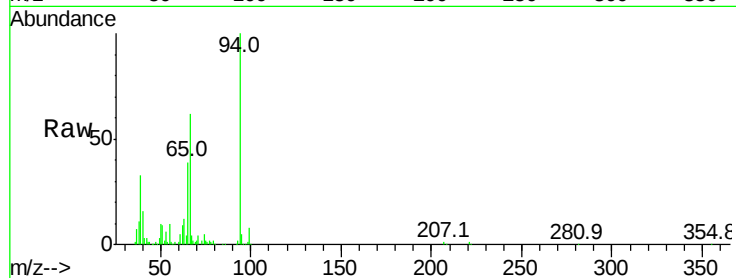
Tot Ion: 94 Resp: 178774

Ion Ratio Lower Upper

94 100

65 39.1 23.1 34.7#

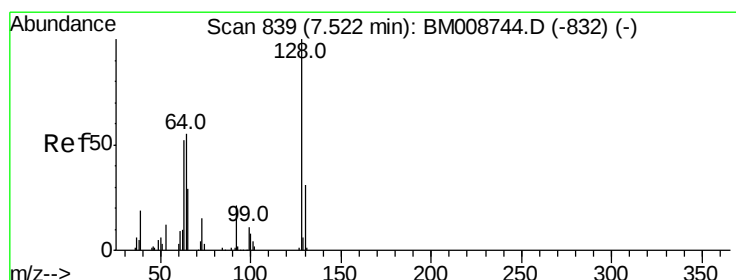
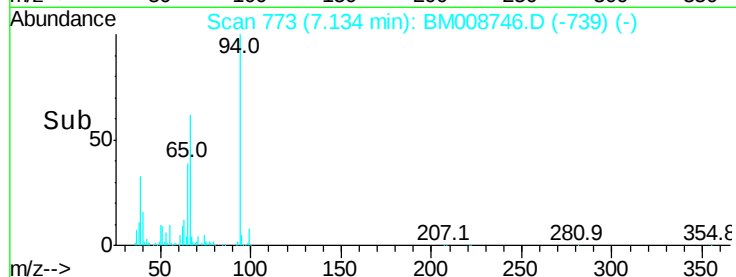
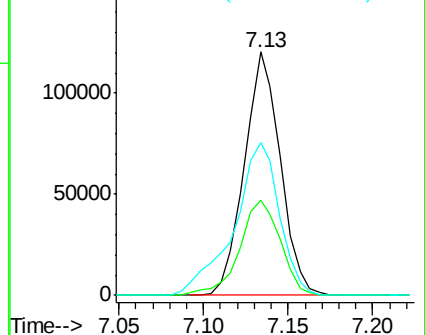
66 62.5 33.7 50.5#



Abundance Ion 94.00 (93.70 to 94.70): BM008746.D (-766) (-)

Ion 65.00 (64.70 to 65.70): BM008746.D (-766) (-)

Ion 66.00 (65.70 to 66.70): BM008746.D (-766) (-)



#10

2-Chlorophenol

Concen: 18.86 ng/ul

RT: 7.52 min Scan# 838

Delta R.T. -0.01 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

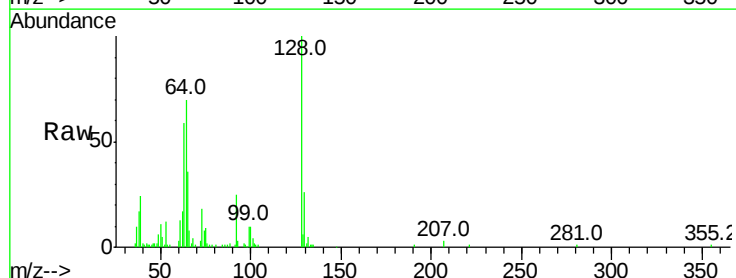
Tgt Ion:128 Resp: 119633

Ion Ratio Lower Upper

128 100

64 70.0 38.7 58.1#

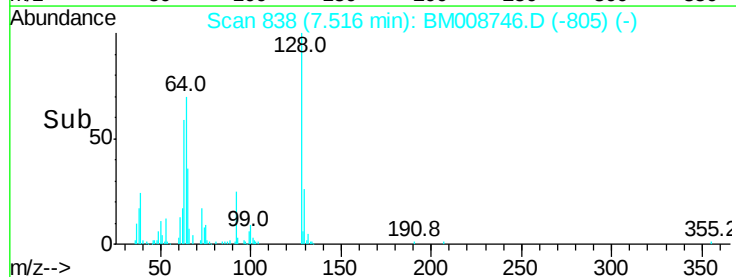
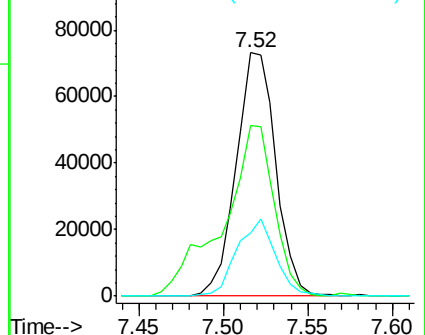
130 25.8 26.9 40.3#

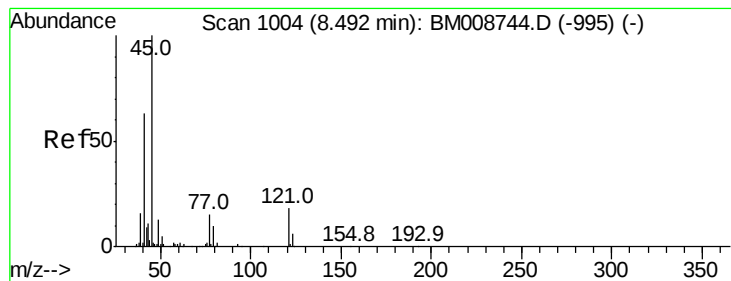


Abundance Ion 128.00 (127.70 to 128.70): BM008746.D (-832) (-)

Ion 64.00 (63.70 to 64.70): BM008746.D (-832) (-)

Ion 130.00 (129.70 to 130.70): BM008746.D (-832) (-)





#12

2,2'-oxvbis(1-Chloropropane)

Concen: 27.98 ng/ul

RT: 8.49 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

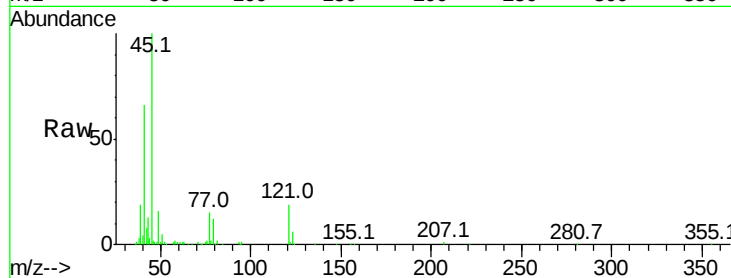
Tot Ion: 45 Resp: 303321

Ion Ratio Lower Upper

45 100

77 14.7 13.8 20.6

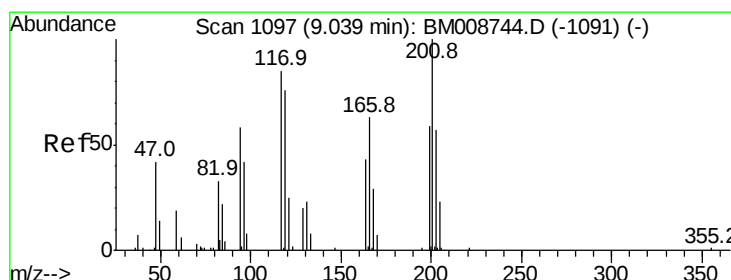
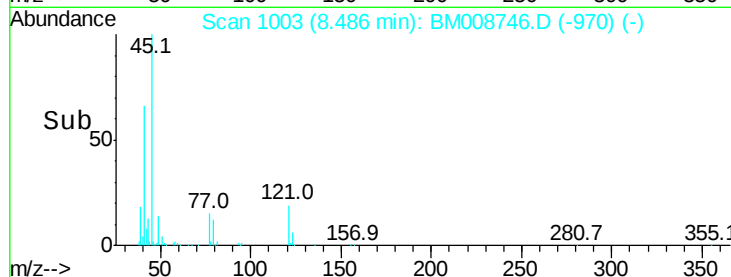
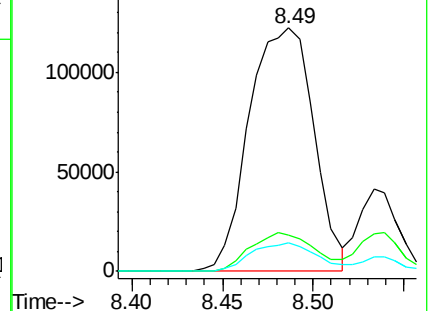
79 12.0 12.1 18.1#



Abundance Ion 45.00 (44.70 to 45.70): BM008744.D (-995) (-)

Ion 77.00 (76.70 to 77.70): BM008744.D (-995) (-)

Ion 79.00 (78.70 to 79.70): BM008744.D (-995) (-)



#17

Hexachloroethane

Concen: 17.33 ng/ul

RT: 9.04 min Scan# 1097

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

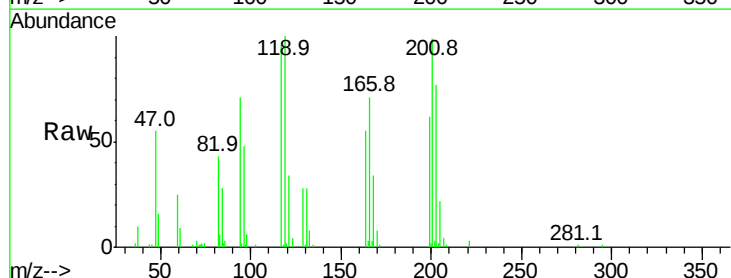
Tgt Ion: 117 Resp: 58283

Ion Ratio Lower Upper

117 100

201 103.6 85.4 128.2

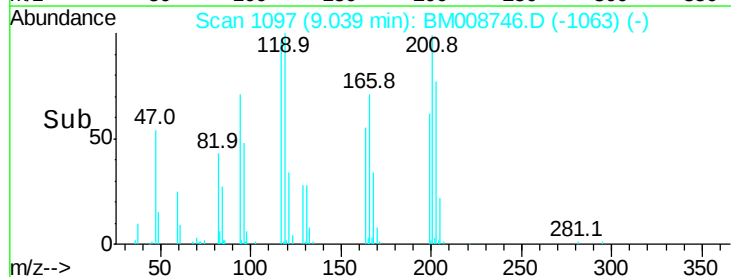
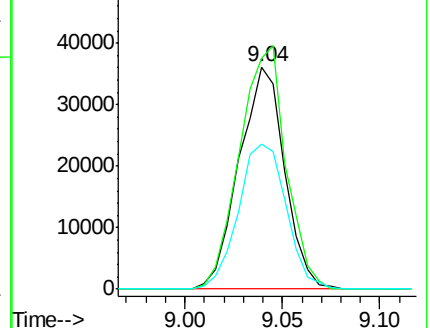
199 65.0 54.1 81.1

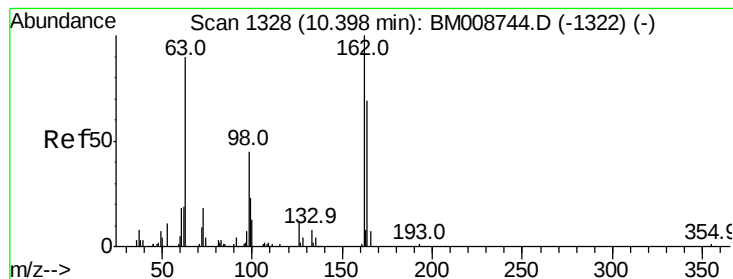


Abundance Ion 117.00 (116.70 to 117.70): BM008744.D (-1091) (-)

Ion 201.00 (200.70 to 201.70): BM008744.D (-1091) (-)

Ion 199.00 (198.70 to 199.70): BM008744.D (-1091) (-)





#27

2,4-Dichlorophenol

Concen: 20.47 ng/ul

RT: 10.40 min Scan# 1328

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

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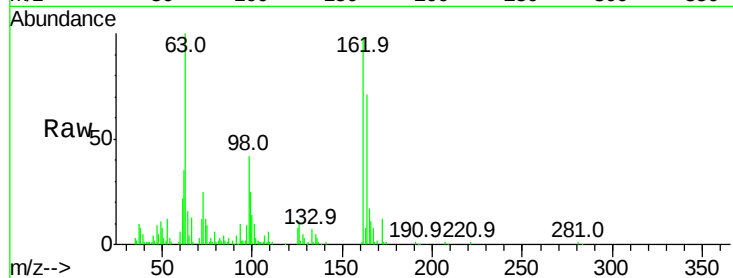
Tot Ion:162 Resp: 137422

Ion Ratio Lower Upper

162 100

164 72.0 50.8 76.2

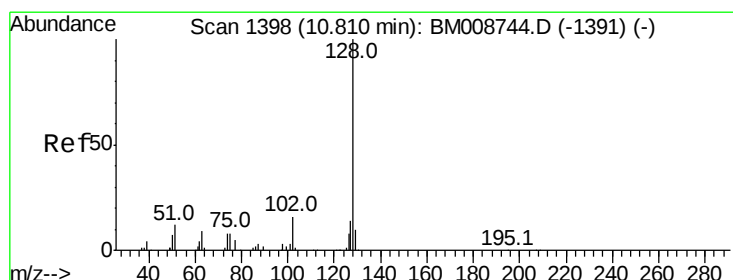
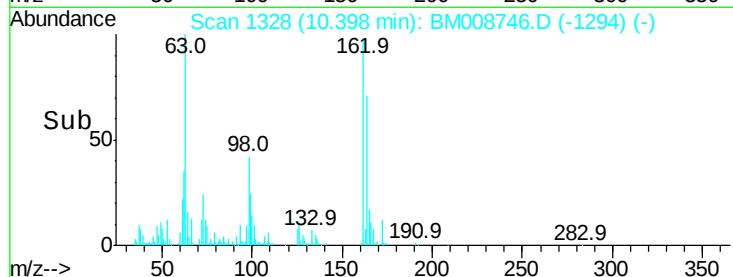
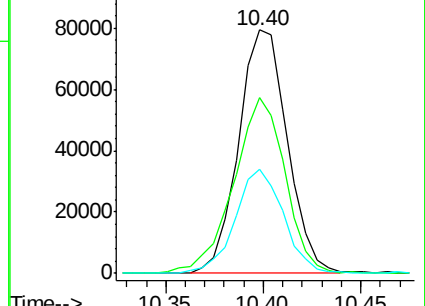
98 42.8 29.8 44.6



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): E



#28

Naphthalene

Concen: 19.97 ng/ul

RT: 10.81 min Scan# 1398

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

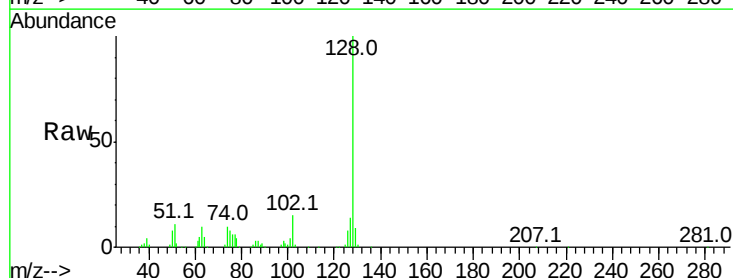
Tgt Ion:128 Resp: 400715

Ion Ratio Lower Upper

128 100

129 9.4 8.3 12.5

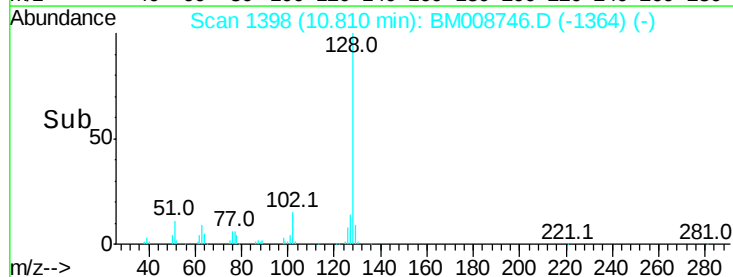
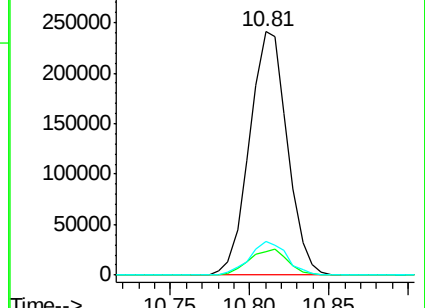
127 13.6 10.6 16.0

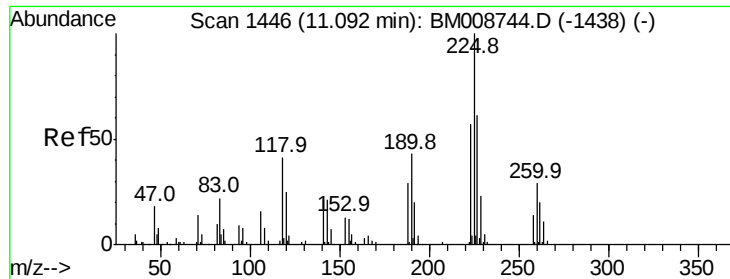


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

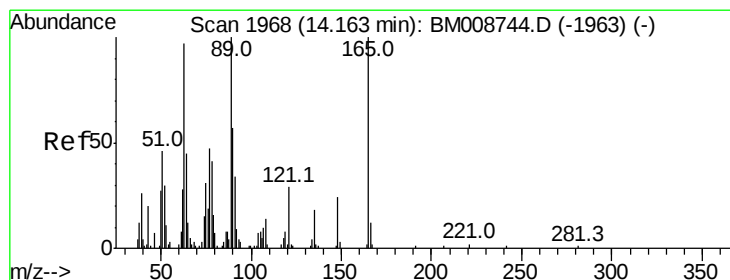
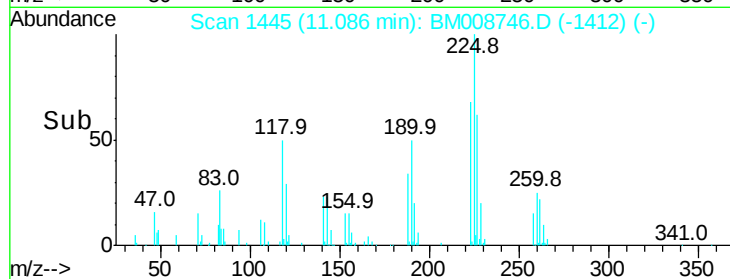
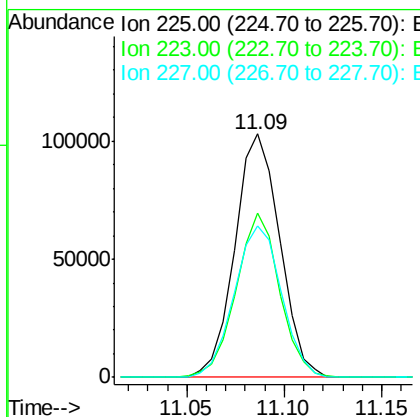
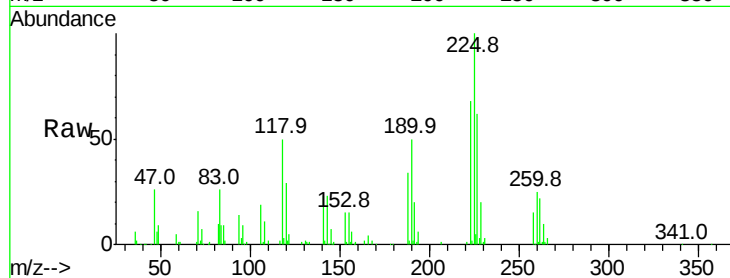




#31
Hexachlorobutadiene
Concen: 27.28 ng/ul
RT: 11.09 min Scan# 1445
Delta R.T. -0.01 min
Lab File: BM008746.D
Acq: 09 Jan 2017 19:49

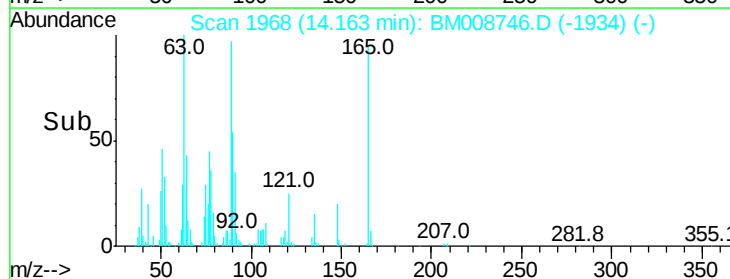
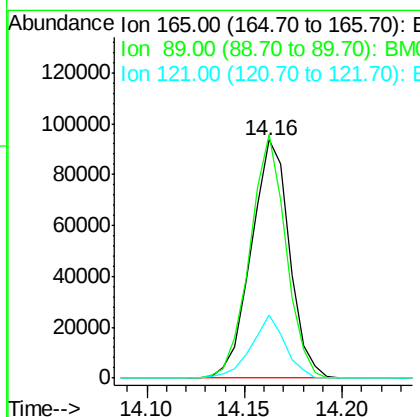
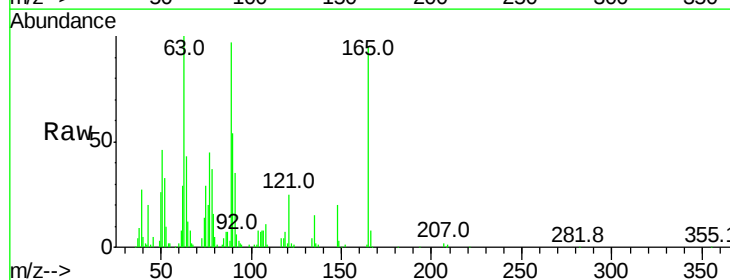
Instrument :
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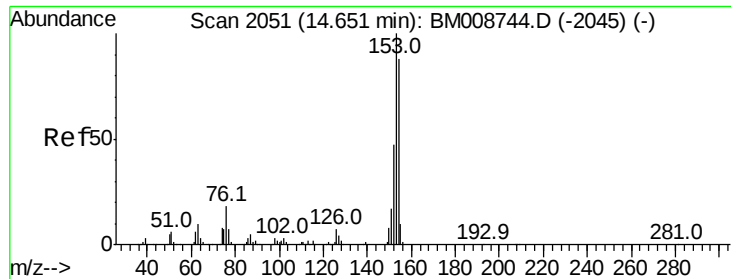
Tot Ion	Ratio	Lower	Upper
225	100		
223	67.6	47.8	71.8
227	62.1	53.2	79.8



#45
2,6-Dinitrotoluene
Concen: 31.11 ng/ul
RT: 14.16 min Scan# 1968
Delta R.T. -0.00 min
Lab File: BM008746.D
Acq: 09 Jan 2017 19:49

Tgt Ion	Ratio	Lower	Upper
165	100		
89	102.2	50.6	76.0#
121	26.7	18.2	27.2





#49

Acenaphthene

Concen: 20.08 ng/ul

RT: 14.65 min Scan# 2051

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

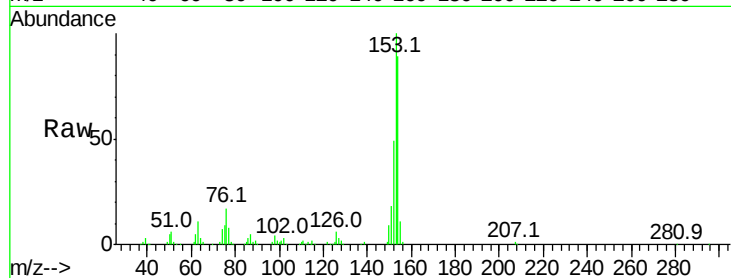
Tot Ion:153 Resp: 375531

Ion Ratio Lower Upper

153 100

152 48.6 36.4 54.6

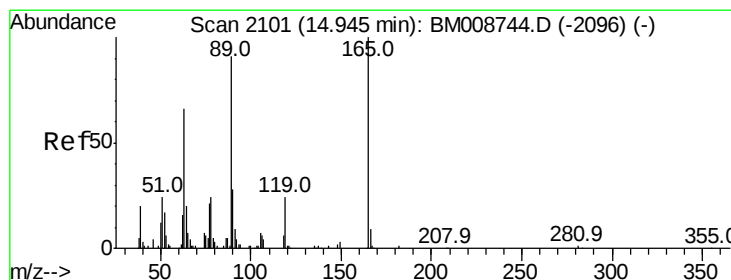
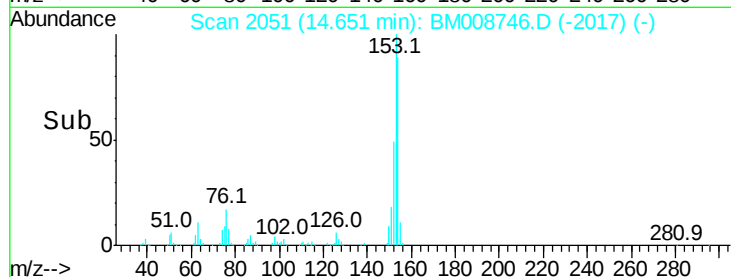
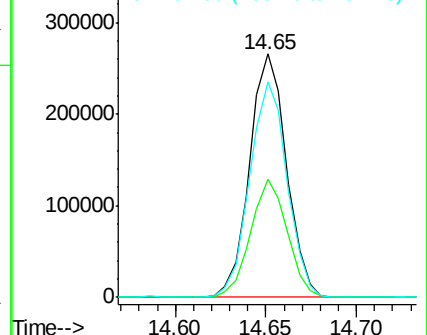
154 88.7 68.7 103.1



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

2,4-Dinitrotoluene

Concen: 31.67 ng/ul

RT: 14.94 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

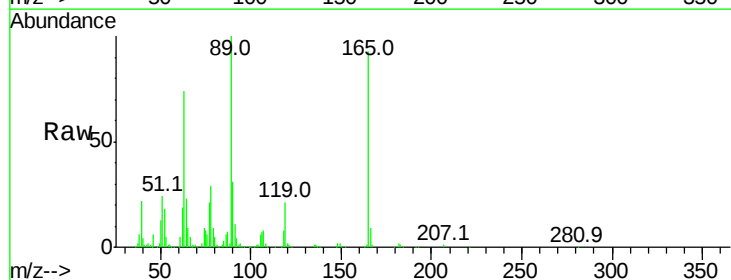
Tgt Ion:165 Resp: 195674

Ion Ratio Lower Upper

165 100

63 80.1 50.6 76.0#

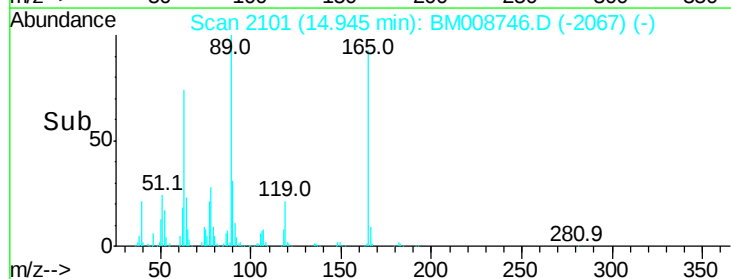
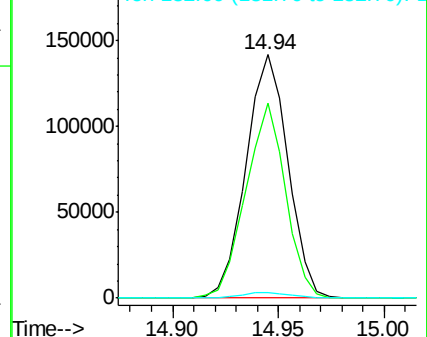
182 2.5 2.7 4.1#

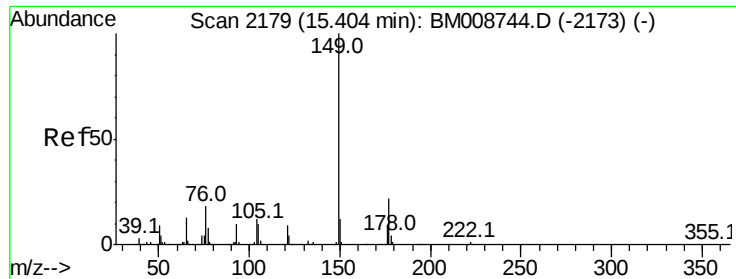


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E





#56

Diethylphthalate

Concen: 25.82 ng/ul

RT: 15.40 min Scan# 2179

Delta R.T. -0.00 min

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Acq: 09 Jan 2017 19:49

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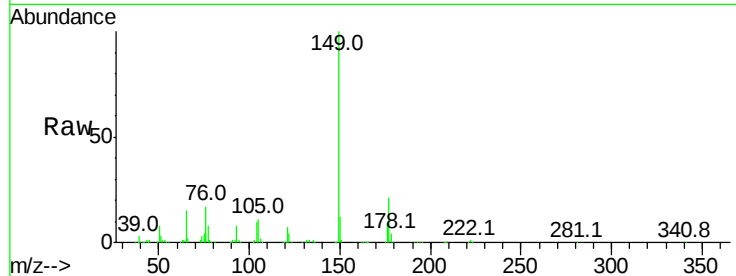
Tot Ion:149 Resp: 634845

Ion Ratio Lower Upper

149 100

177 20.7 19.7 29.5

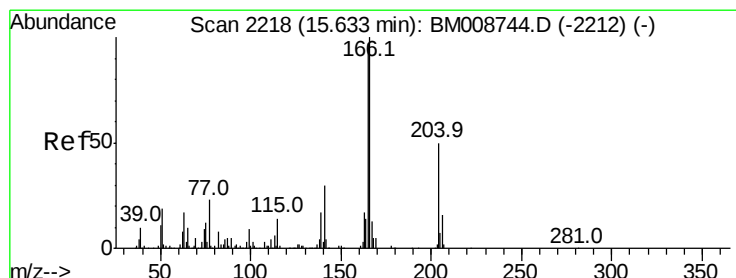
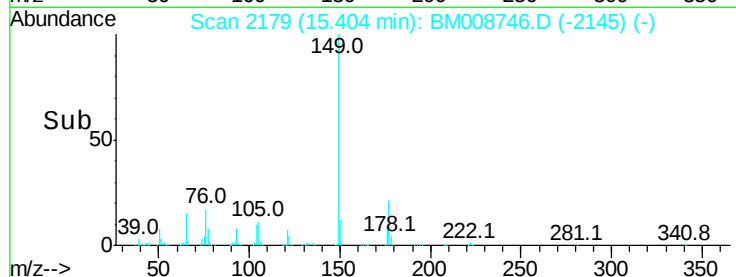
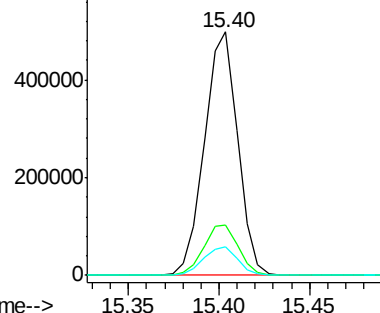
150 11.9 10.0 15.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#58

Fluorene

Concen: 20.20 ng/ul

RT: 15.63 min Scan# 2218

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

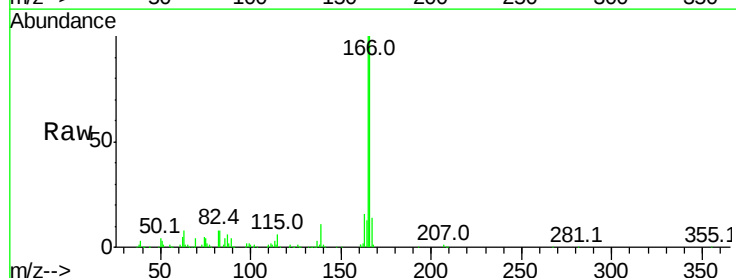
Tgt Ion:166 Resp: 471162

Ion Ratio Lower Upper

166 100

165 99.8 80.2 120.2

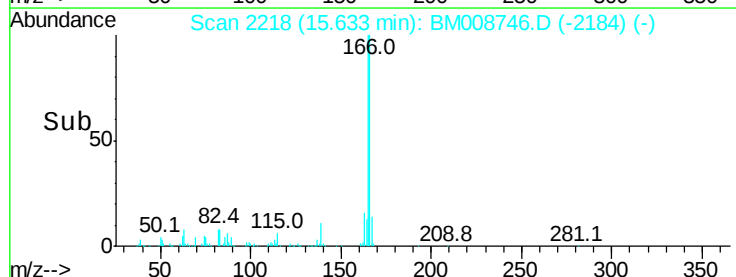
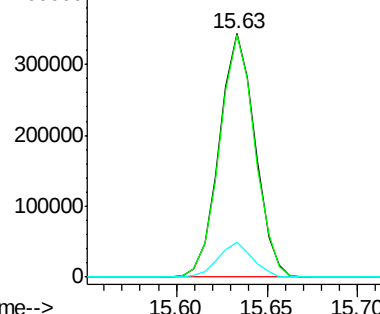
167 14.2 10.9 16.3

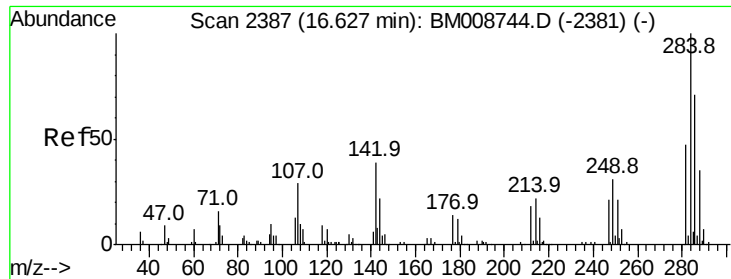


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

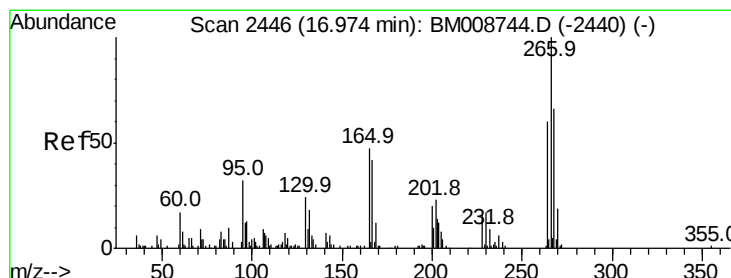
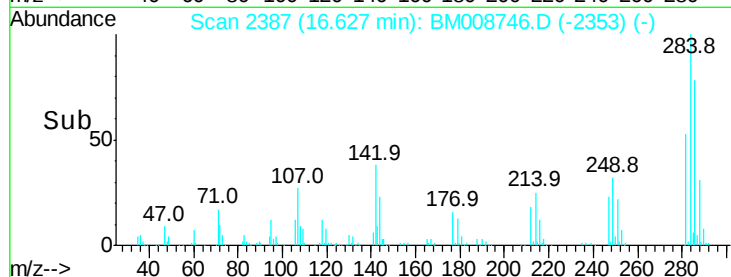
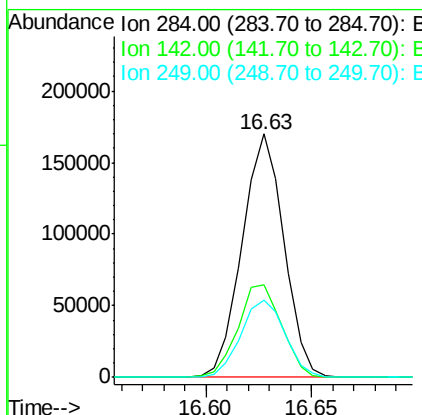
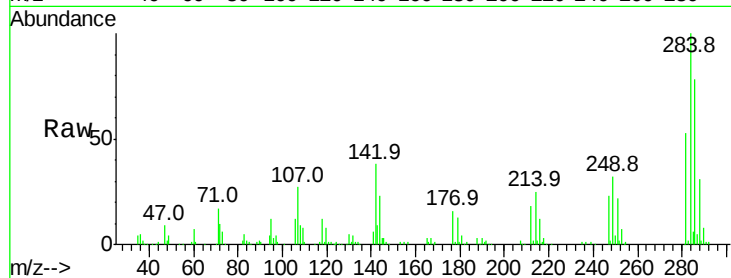




#66
Hexachlorobenzene
Concen: 24.58 ng/ul
RT: 16.63 min Scan# 2387
Delta R.T. -0.00 min
Lab File: BM008746.D
Acq: 09 Jan 2017 19:49

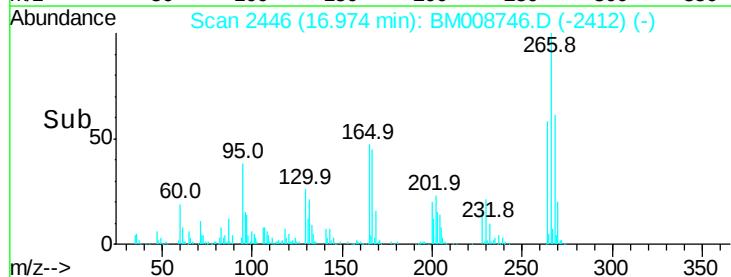
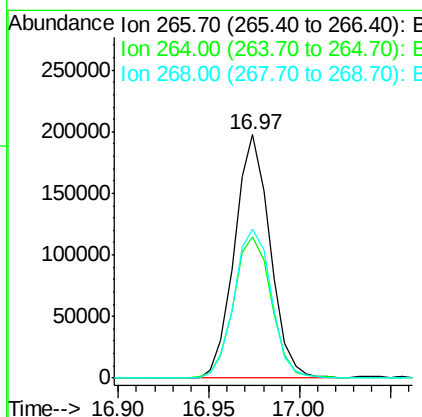
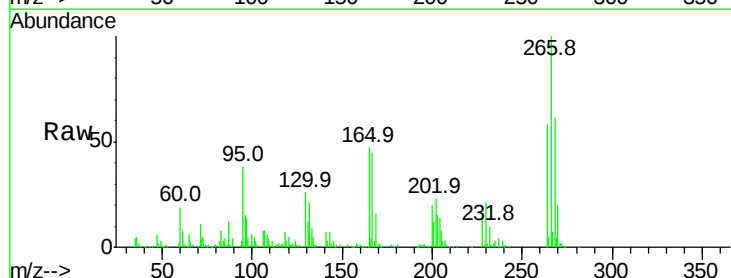
Instrument :
BNA_M
ClientSampleId :
DA960

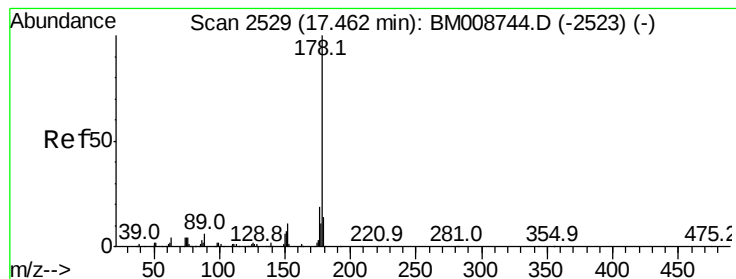
Tot Ion:284 Resp: 233708
Ion Ratio Lower Upper
284 100
142 38.0 26.2 39.2
249 31.6 24.6 36.8



#68
Pentachlorophenol
Concen: 44.59 ng/ul
RT: 16.97 min Scan# 2446
Delta R.T. -0.00 min
Lab File: BM008746.D
Acq: 09 Jan 2017 19:49

Tgt Ion:266 Resp: 266770
Ion Ratio Lower Upper
266 100
264 58.0 50.6 75.8
268 61.3 49.1 73.7





#71

Anthracene

Concen: 18.15 ng/ul

RT: 17.46 min Scan# 2529

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

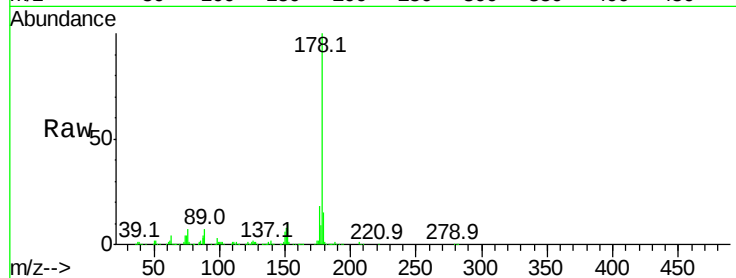
BNA_M

ClientSampleId :

DA960

Tot Ion:178 Resp: 736732

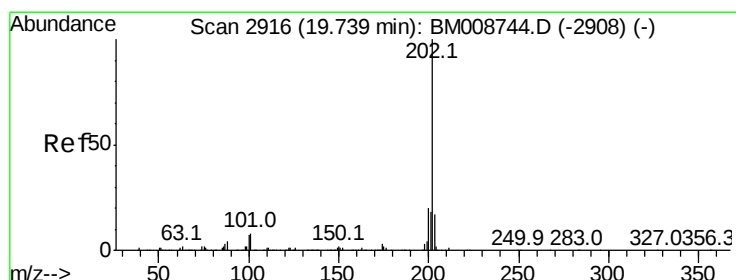
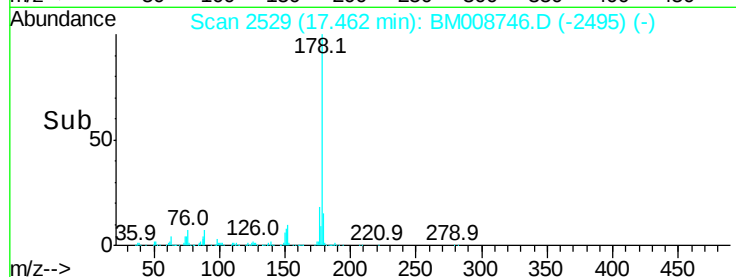
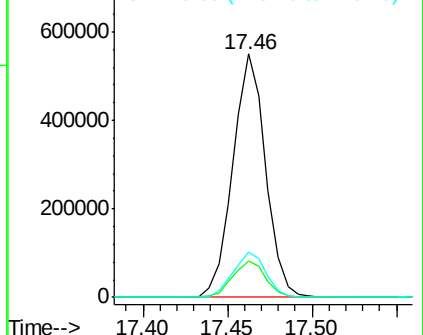
Ion	Ratio	Lower	Upper
178	100		
179	15.0	11.8	17.8
176	18.5	14.6	21.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#77

Pyrene

Concen: 19.94 ng/ul

RT: 19.74 min Scan# 2917

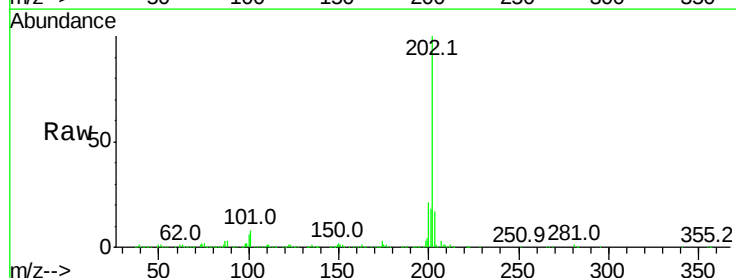
Delta R.T. 0.01 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Tgt Ion:202 Resp: 1133842

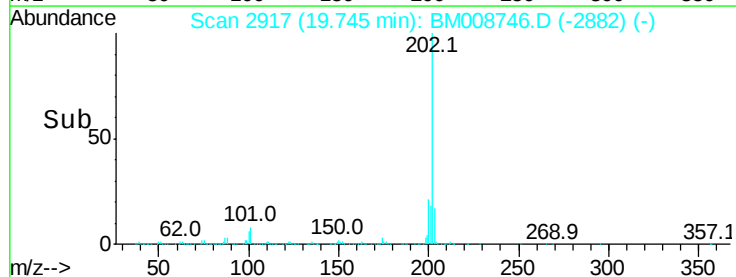
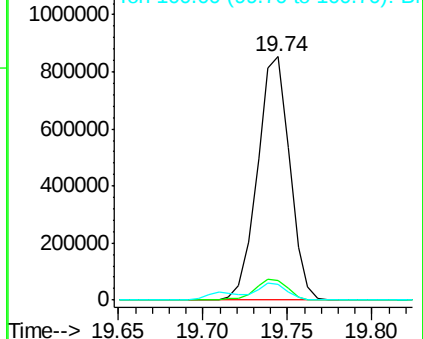
Ion	Ratio	Lower	Upper
202	100		
101	7.8	8.6	12.8#
100	6.3	6.5	9.7#

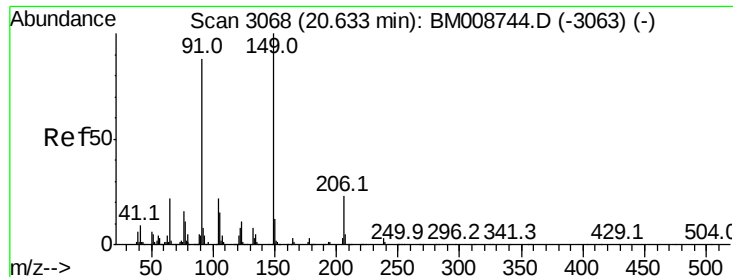


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#78

Butylbenzylphthalate

Concen: 41.99 ng/ul

RT: 20.63 min Scan# 3068

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

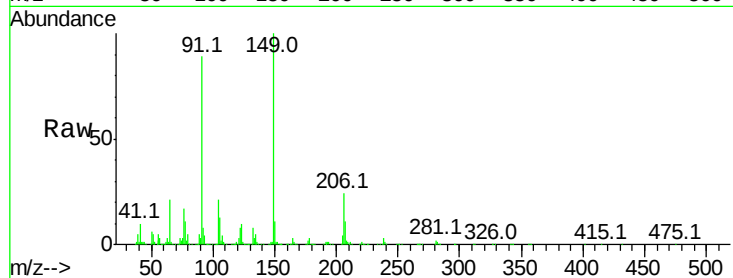
Tot Ion:149 Resp: 878410

Ion Ratio Lower Upper

149 100

91 88.5 61.0 91.4

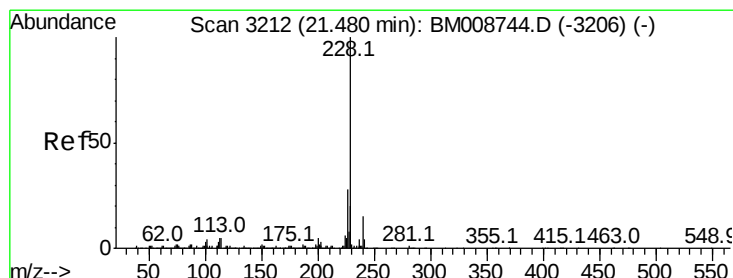
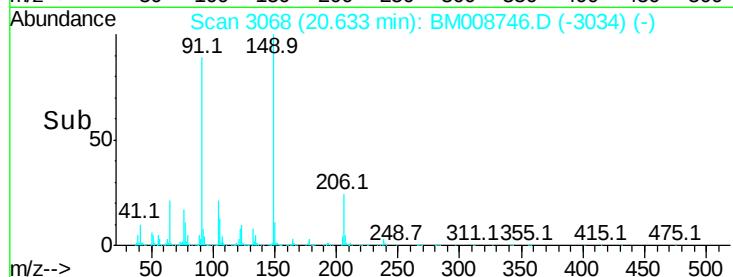
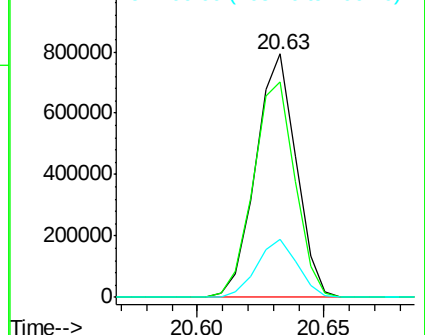
206 24.0 18.3 27.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 20.31 ng/ul

RT: 21.48 min Scan# 3212

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

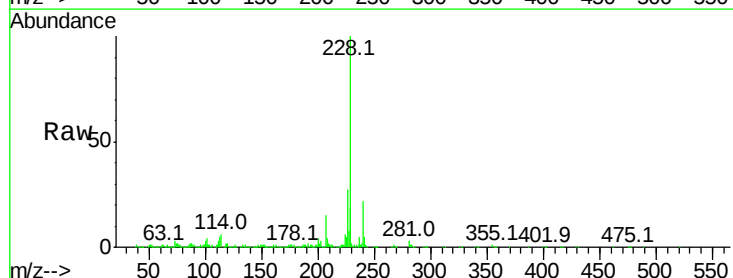
Tgt Ion:228 Resp: 1138541

Ion Ratio Lower Upper

228 100

229 19.1 15.8 23.6

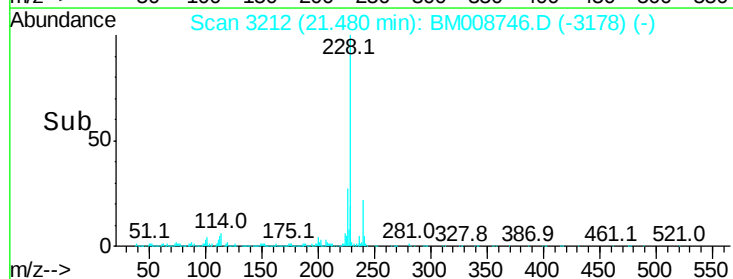
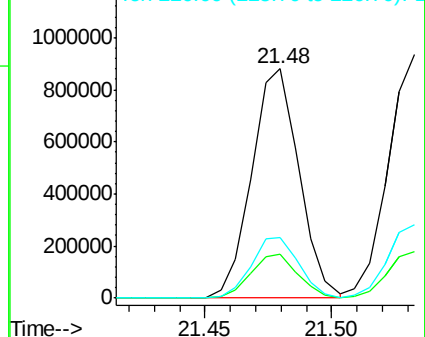
226 26.5 21.3 31.9

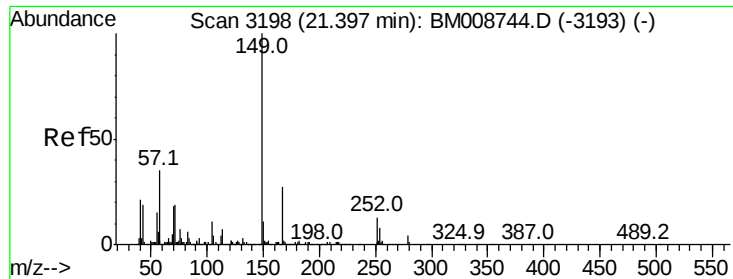


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 33.79 ng/ul

RT: 21.40 min Scan# 3198

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

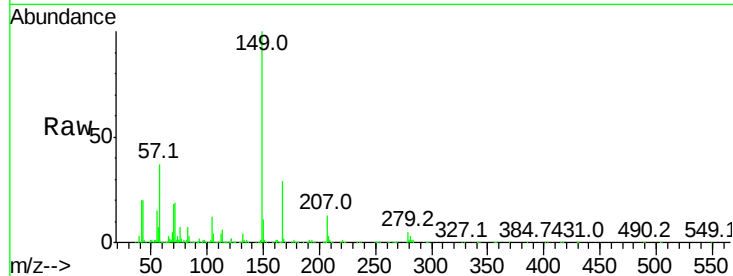
Tot Ion:149 Resp: 989377

Ion Ratio Lower Upper

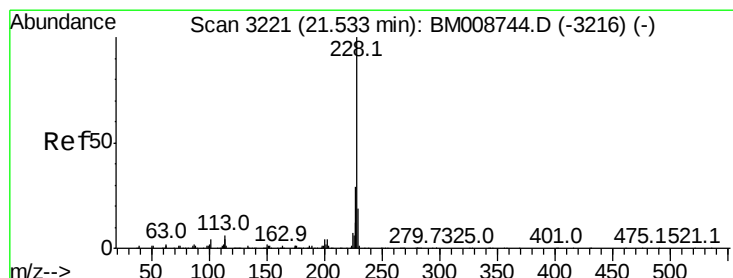
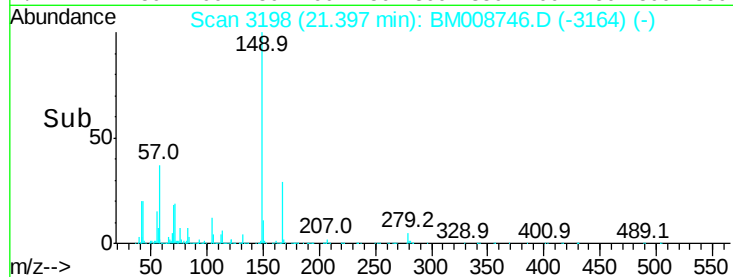
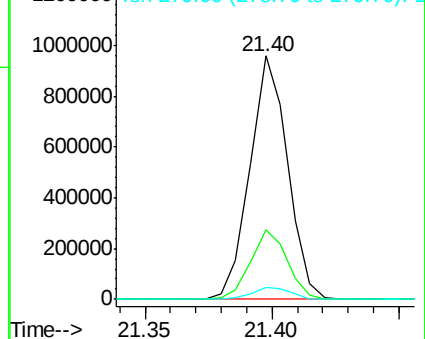
149 100

167 28.8 22.5 33.7

279 4.8 4.3 6.5



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



#82

Chrysene

Concen: 21.93 ng/ul

RT: 21.53 min Scan# 3221

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

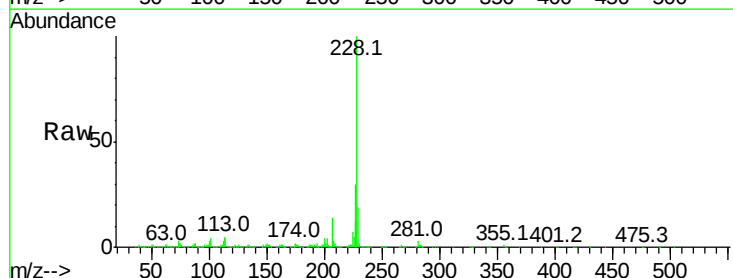
Tgt Ion:228 Resp: 1141019

Ion Ratio Lower Upper

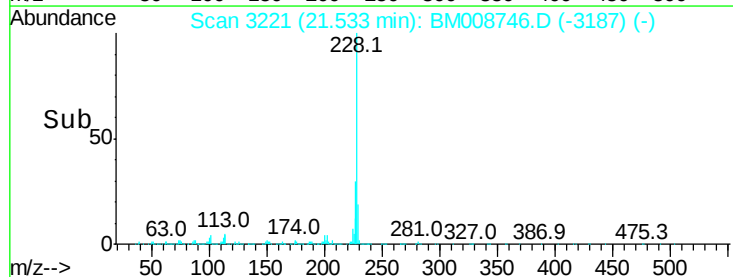
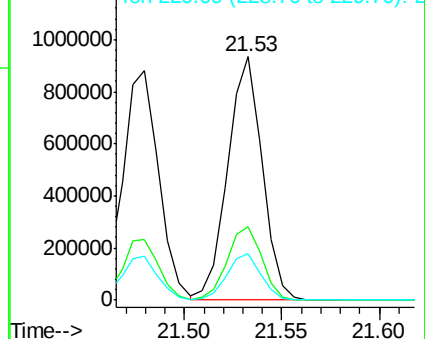
228 100

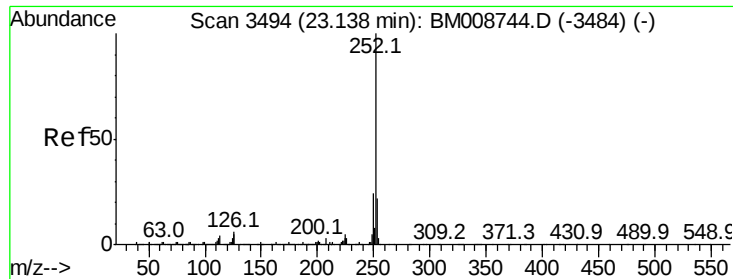
226 30.0 23.4 35.0

229 19.2 15.4 23.0



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





#85

Benzo(b)fluoranthene

Concen: 36.42 ng/ul

RT: 23.14 min Scan# 3494

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

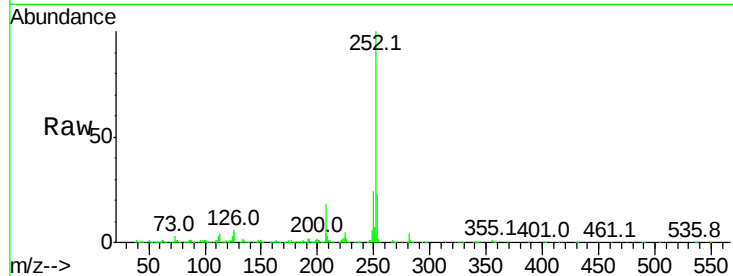
Tot Ion:252 Resp: 1922047

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

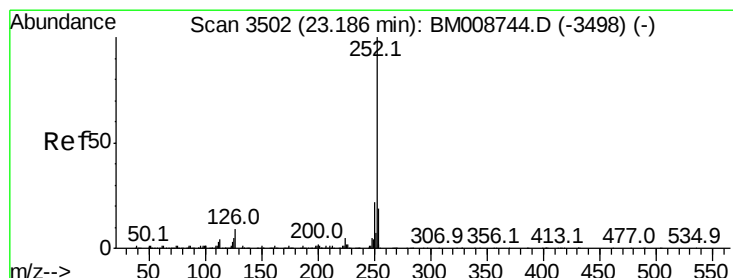
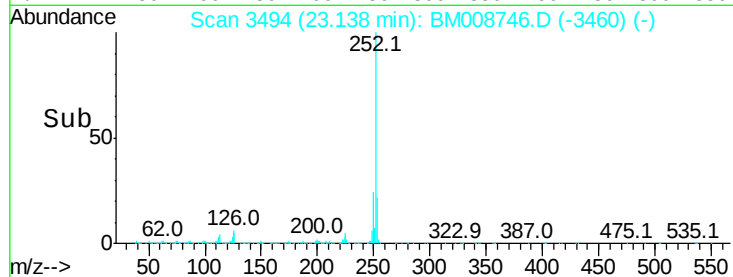
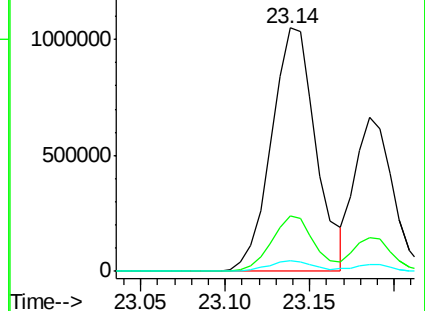
125 4.6 5.6 8.4#



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



#86

Benzo(k)fluoranthene

Concen: 20.11 ng/ul

RT: 23.19 min Scan# 3502

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

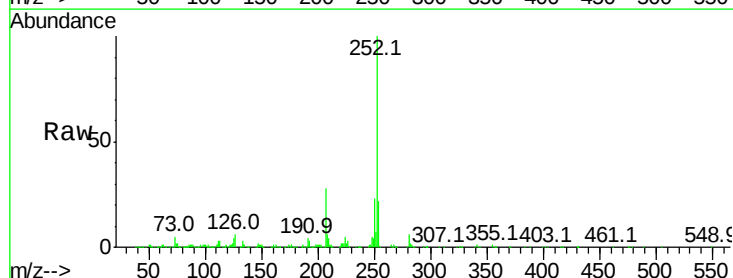
Tgt Ion:252 Resp: 1025840

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.6

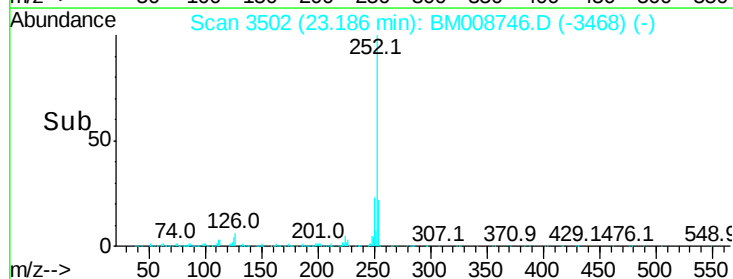
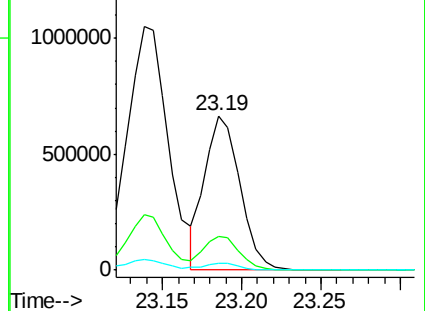
125 4.1 5.5 8.3#

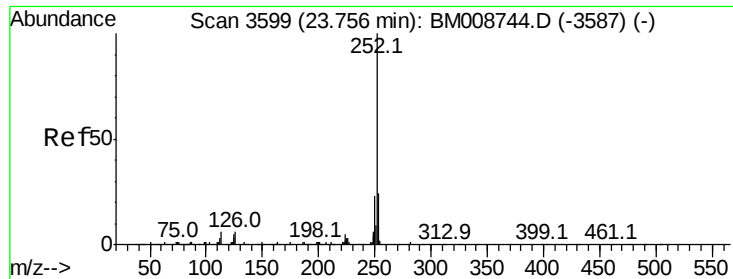


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 19.65 ng/ul

RT: 23.76 min Scan# 3599

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

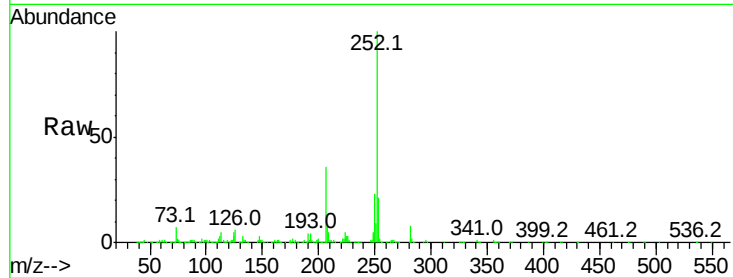
Tot Ion:252 Resp: 988860

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.0

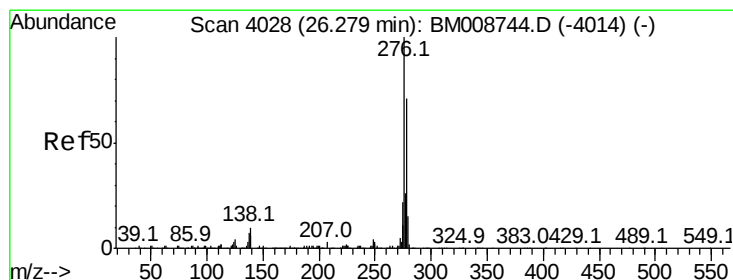
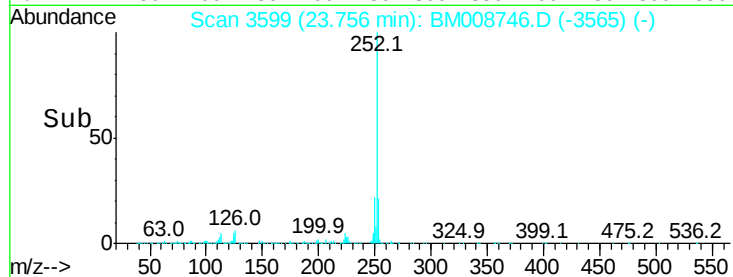
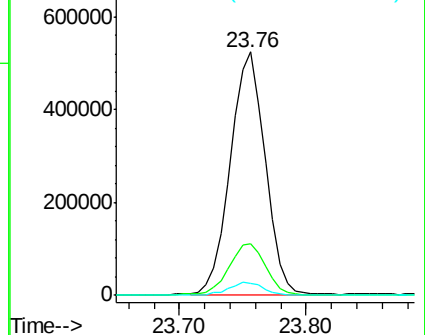
125 4.7 6.2 9.2#



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 30.40 ng/ul

RT: 26.28 min Scan# 4028

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

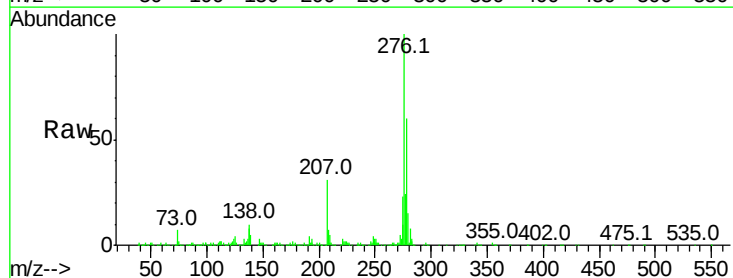
Tgt Ion:276 Resp: 1734619

Ion Ratio Lower Upper

276 100

138 10.3 14.1 21.1#

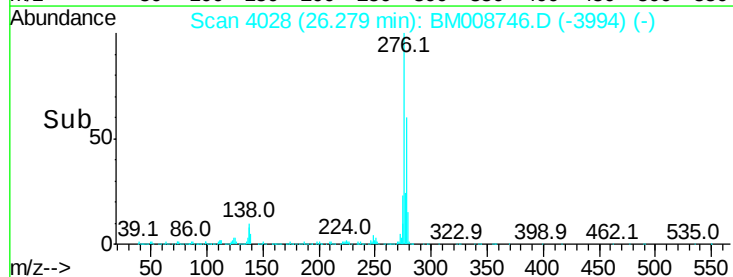
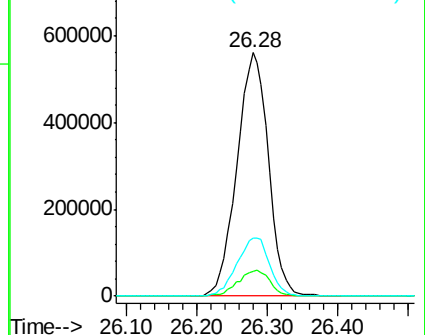
277 23.8 19.7 29.5

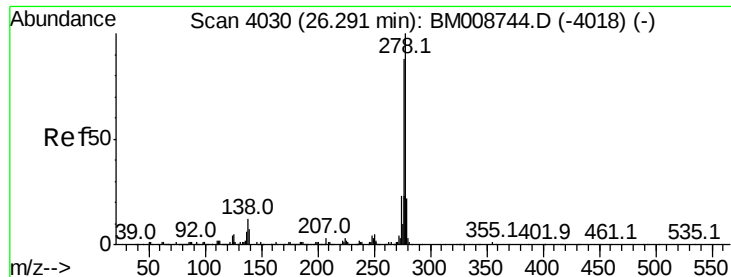


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 26.28 ng/ul

RT: 26.29 min Scan# 4030

Delta R.T. -0.00 min

Lab File: BM008746.D

Acq: 09 Jan 2017 19:49

Instrument :

BNA_M

ClientSampleId :

DA960

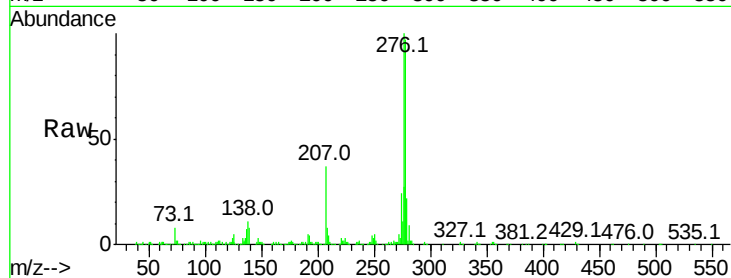
Tot Ion:278 Resp: 1281381

Ion Ratio Lower Upper

278 100

139 7.9 9.3 13.9#

279 22.4 18.9 28.3



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

