

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM022616\
 Data File : BM004427.D
 Acq On : 26 Feb 2016 14:42
 Operator : SJ/UM
 Sample : H1564-27
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9R23

Quant Time: Feb 26 23:25:26 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM022216.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 26 23:20:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	19404	20.00	ng/ul	0.00
18) Naphthalene-d8	10.40	136	91495	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.28	164	55313	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.03	188	113469	20.00	ng/ul	0.00
78) Chrysene-d12	21.25	240	98628	20.00	ng/ul	0.00
86) Perylene-d12	23.47	264	94755	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.08	96	1174	3.19	ng/uL	0.00
5) Phenol-d5	6.80	99	35289	21.69	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.95	67	18869	22.80	ng/ul	0.00
9) 2-Chlorophenol-d4	7.15	132	31815	22.67	ng/ul	0.00
13) 4-Methylphenol-d8	8.34	113	34146	23.49	ng/ul	0.00
19) Nitrobenzene-d5	8.77	128	16365	23.51	ng/ul	0.00
22) 2-Nitrophenol-d4	9.50	143	18586	23.42	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.04	165	34082	23.76	ng/ul	0.00
29) 4-Chloroaniline-d4	10.55	131	36943	20.67	ng/ul	0.00
44) Dimethylphthalate-d6	13.69	166	141347	29.80	ng/ul	0.00
47) Acenaphthylene-d8	13.97	160	171884	30.95	ng/ul	0.00
52) 4-Nitrophenol-d4	14.52	143	19803	25.97	ng/ul	0.00
58) Fluorene-d10	15.28	176	127411	31.58	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.43	200	16471	23.63	ng/ul	0.00
71) Anthracene-d10	17.13	188	196641	35.37	ng/ul	0.00
79) Pyrene-d10	19.44	212	193942	40.65	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.33	264	184539	37.11	ng/ul	0.00

Target Compounds

					Qvalue
4) Benzaldehyde	6.76	77	28222	32.06 ng/ul	93
10) 2-Chlorophenol	7.19	128	5130	3.52 ng/ul	94
23) 2-Nitrophenol	9.53	139	25451	28.51 ng/ul	93
28) Naphthalene	10.45	128	30064	5.89 ng/ul	99
31) Hexachlorobutadiene	10.73	225	13637	14.38 ng/ul	99
33) 4-Chloro-3-methylphenol	11.72	107	24295	13.73 ng/ul	98
35) 1-Methylnaphthalene	12.30	142	44679	12.31 ng/ul	100
37) 1,2,4,5-Tetrachlorobenzene	12.46	216	11749	6.39 ng/ul	98
39) 2,4,6-Trichlorophenol	12.71	196	18152	15.18 ng/ul	97
41) 1,1'-Biphenyl	13.10	154	100122	21.07 ng/ul	99
45) Dimethylphthalate	13.74	163	140411	28.38 ng/ul	100
46) 2,6-Dinitrotoluene	13.87	165	13621	13.73 ng/ul	98
53) 4-Nitrophenol	14.54	109	18368	32.22 ng/ul	94
54) Dibenzofuran	14.68	168	52597	9.13 ng/ul	97
64) 4,6-Dinitro-2-methylphenol	15.44	198	12229	16.28 ng/ul#	98
67) Hexachlorobenzene	16.34	284	11542	8.40 ng/ul	96
69) Pentachlorophenol	16.70	266	9384	17.30 ng/ul	98
70) Phenanthrene	17.07	178	168401	24.71 ng/ul	99
72) Anthracene	17.17	178	72478	10.47 ng/ul	99
76) Di-n-butylphthalate	18.00	149	112651	13.45 ng/ul	99
77) Fluoranthene	19.10	202	144265	18.68 ng/ul	99
80) Pyrene	19.47	202	151723	23.54 ng/ul	99
83) Benzo(a)anthracene	21.29	228	107800	16.99 ng/ul	98

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Quant Title : SVOA CALIBRATION
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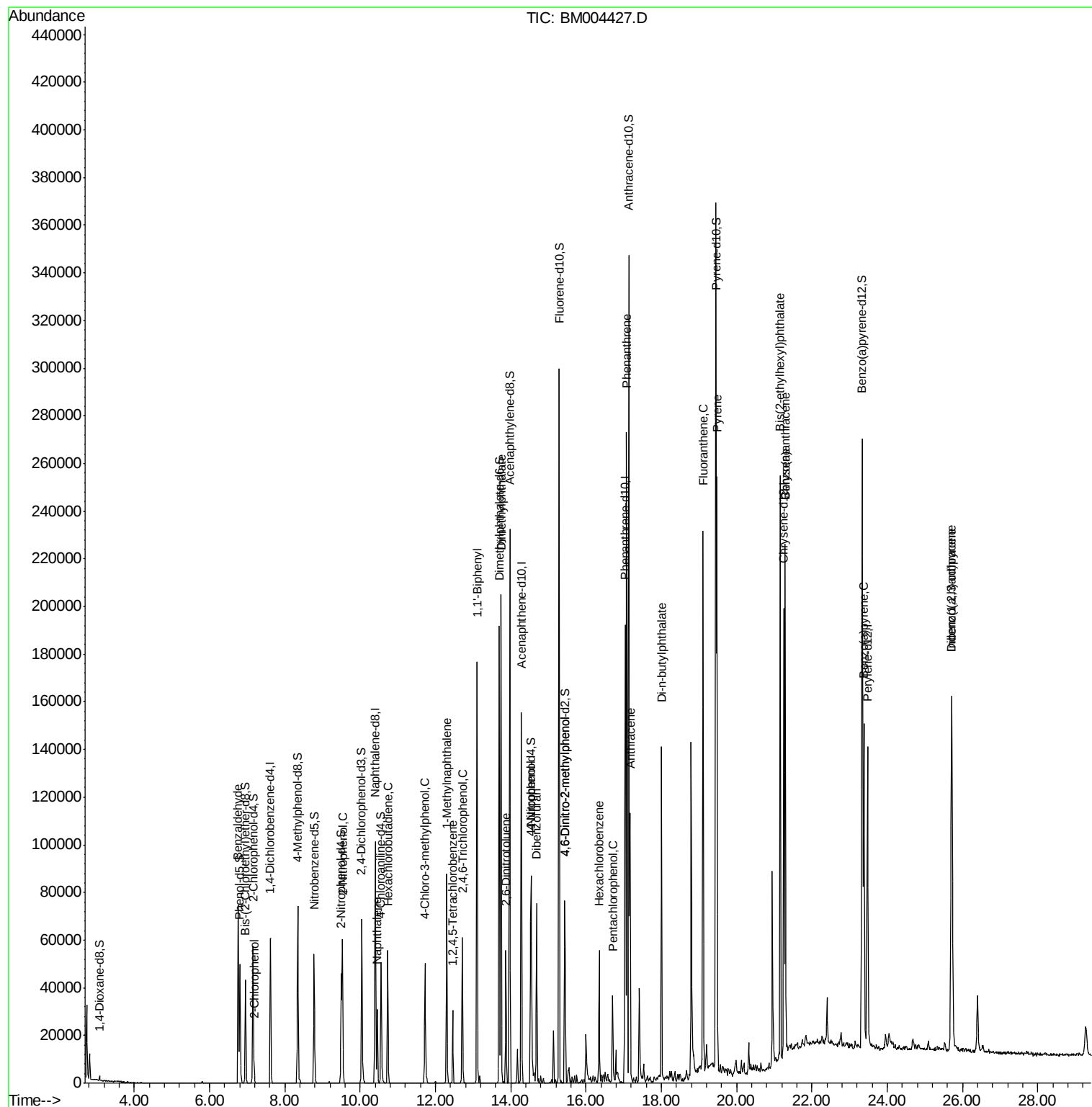
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Bis(2-ethylhexyl)phthalate	21.16	149	93595	22.32	ng/ul	97
85) Chrysene	21.29	228	110415	18.09	ng/ul	99
91) Benzo(a)pyrene	23.37	252	99558	16.73	ng/ul	100
92) Indeno(1,2,3-cd)pyrene	25.71	276	123770	22.24	ng/ul	97
93) Dibenzo(a,h)anthracene	25.71	278	63963	13.93	ng/ul	97

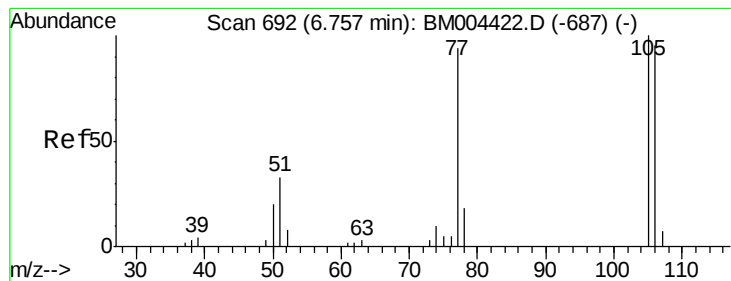
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 32.06 ng/ul

RT: 6.76 min Scan# 693

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

BNA_M

ClientSampleId :

D9R23

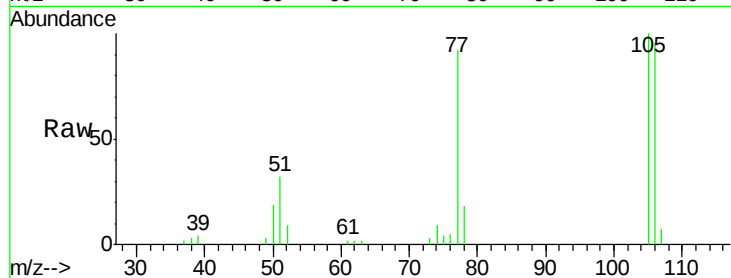
Tgt Ion: 77 Resp: 28222

Ion Ratio Lower Upper

77 100

105 108.2 80.6 120.8

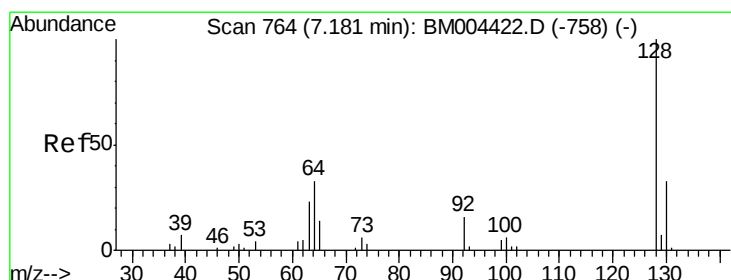
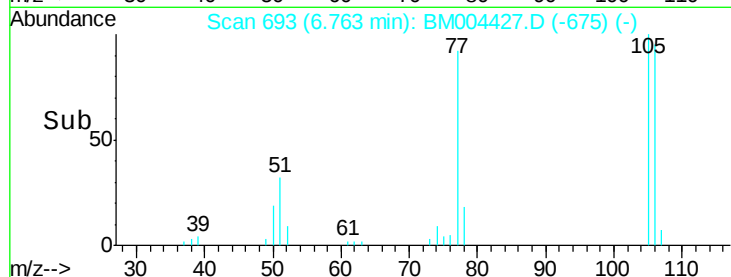
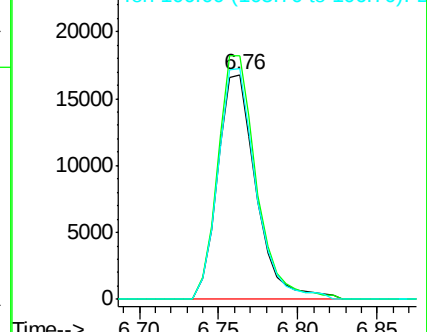
106 102.6 77.7 116.5



Abundance Ion 77.00 (76.70 to 77.70): BM004422.D (-687) (-)

Ion 105.00 (104.70 to 105.70): BM004422.D (-687) (-)

Ion 106.00 (105.70 to 106.70): BM004422.D (-687) (-)



#10

2-Chlorophenol

Concen: 3.52 ng/ul

RT: 7.19 min Scan# 765

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

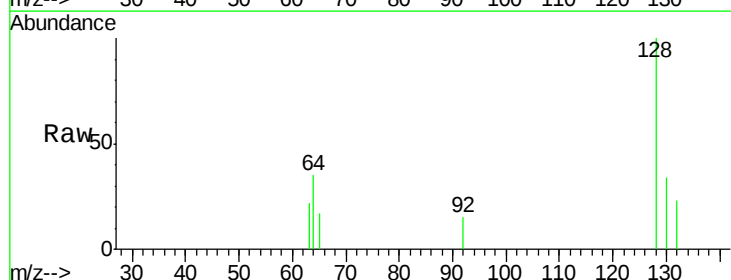
Tgt Ion: 128 Resp: 5130

Ion Ratio Lower Upper

128 100

64 35.2 31.9 47.9

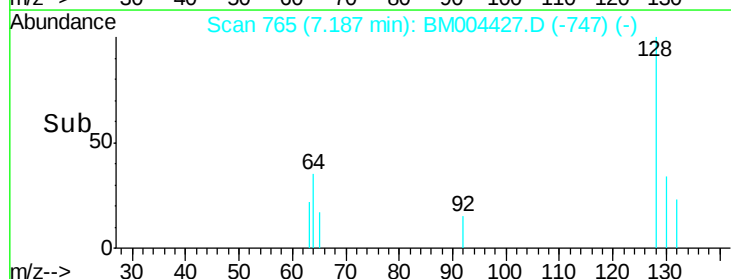
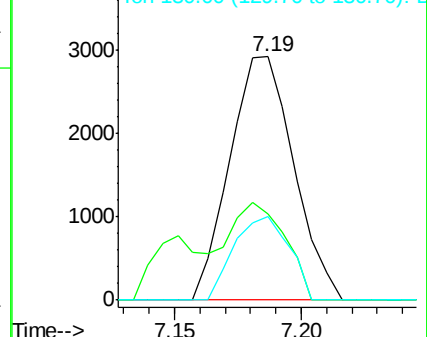
130 34.5 25.6 38.4

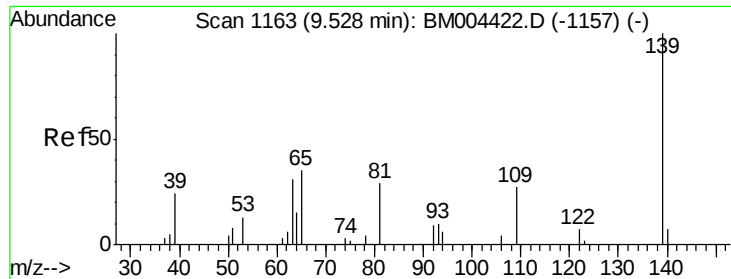


Abundance Ion 128.00 (127.70 to 128.70): BM004422.D (-758) (-)

Ion 64.00 (63.70 to 64.70): BM004422.D (-758) (-)

Ion 130.00 (129.70 to 130.70): BM004422.D (-758) (-)

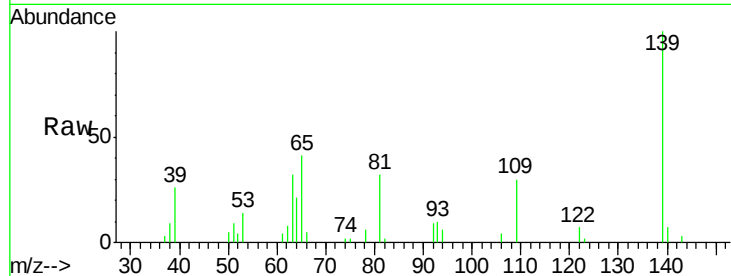




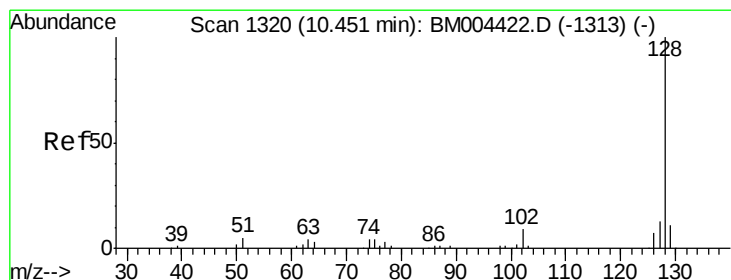
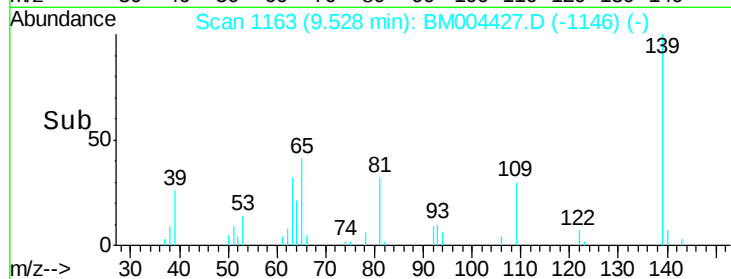
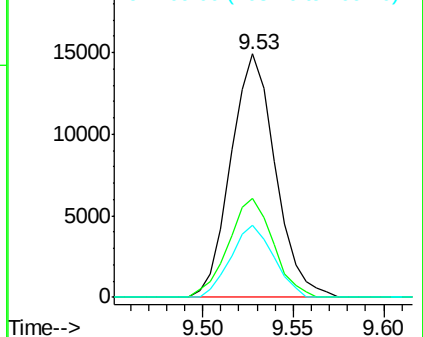
#23
2-Nitrophenol
Concen: 28.51 ng/ul
RT: 9.53 min Scan# 1163
Delta R.T. 0.00 min
Lab File: BM004427.D
Acq: 26 Feb 2016 14:42

Instrument :
BNA_M
ClientSampleId :
D9R23

Tgt Ion	Ratio	Lower	Upper
139	100		
65	40.7	36.3	54.5
109	29.8	26.4	39.6

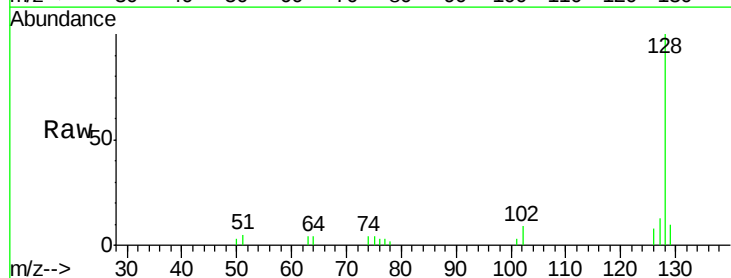


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BM0
Ion 109.00 (108.70 to 109.70): E

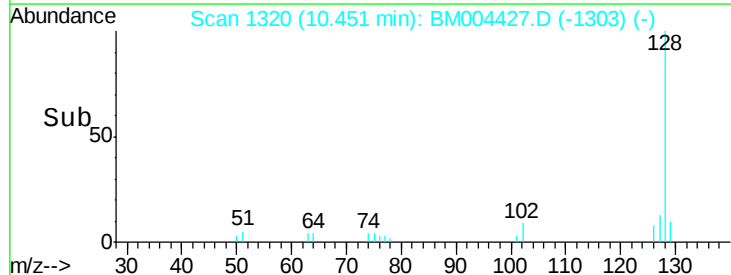
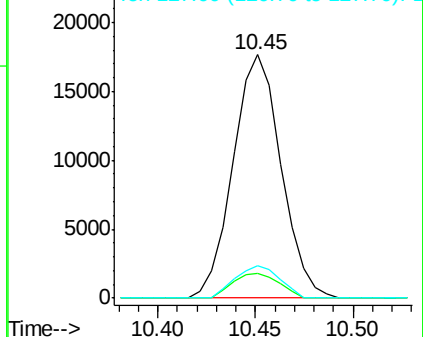


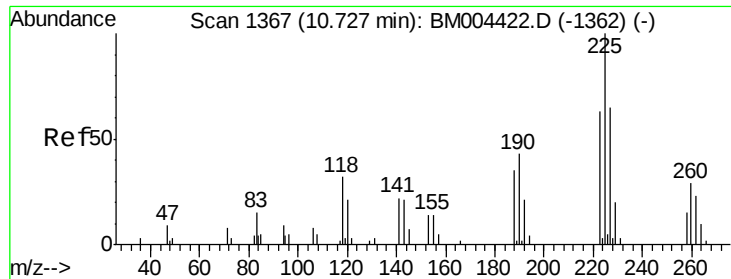
#28
Naphthalene
Concen: 5.89 ng/ul
RT: 10.45 min Scan# 1320
Delta R.T. 0.00 min
Lab File: BM004427.D
Acq: 26 Feb 2016 14:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.8	13.2
127	13.3	10.5	15.7



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: 14.38 ng/ul

RT: 10.73 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

BNA_M

ClientSampled :

D9R23

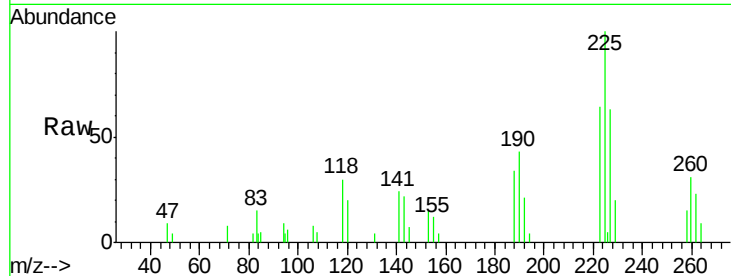
Tgt Ion:225 Resp: 13637

Ion Ratio Lower Upper

225 100

223 63.7 51.4 77.2

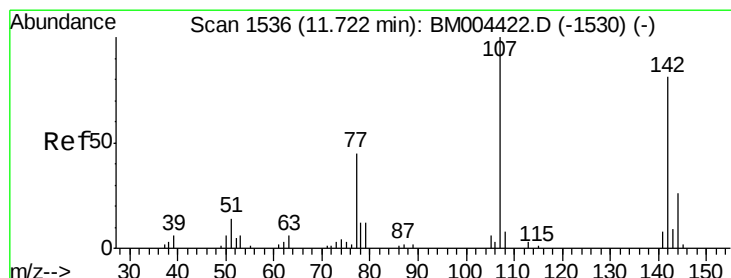
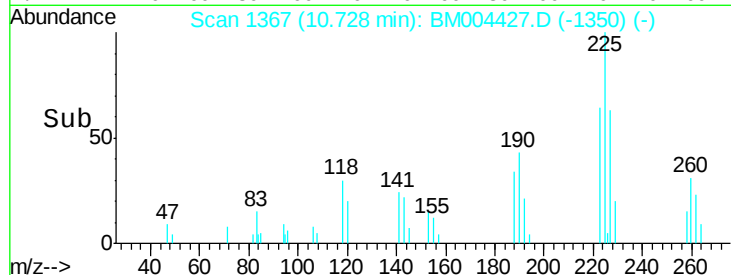
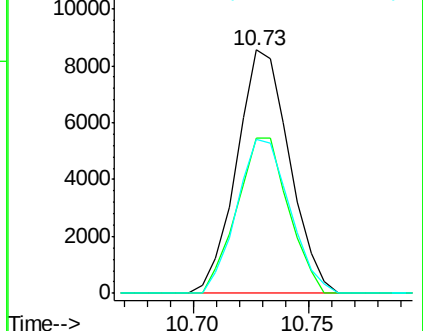
227 63.2 50.7 76.1



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#33

4-Chloro-3-methylphenol

Concen: 13.73 ng/ul

RT: 11.72 min Scan# 1536

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

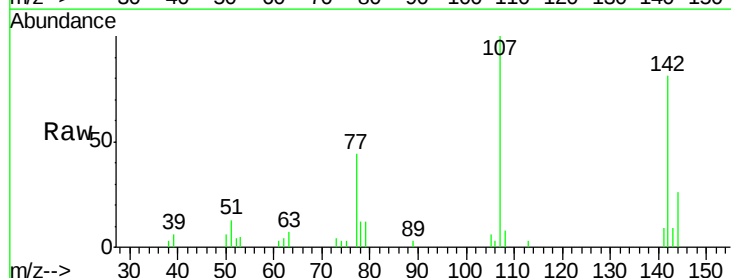
Tgt Ion:107 Resp: 24295

Ion Ratio Lower Upper

107 100

144 25.8 20.4 30.6

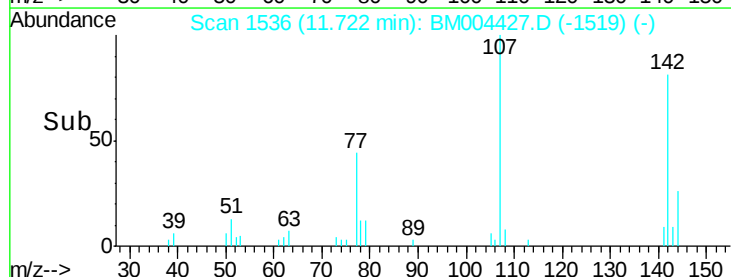
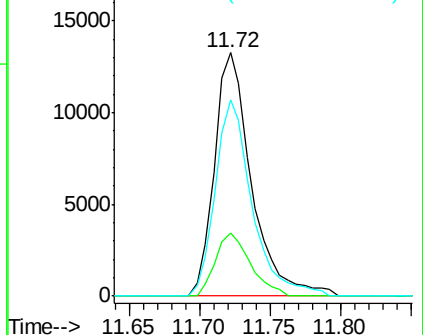
142 80.5 62.5 93.7

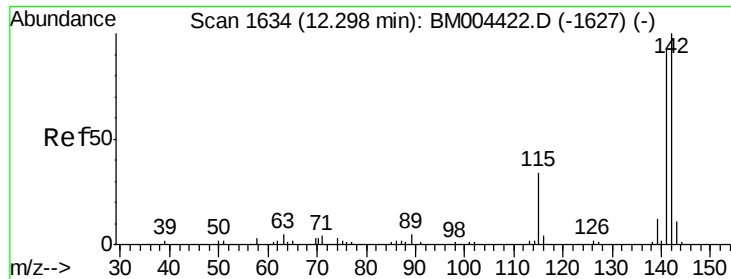


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#35

1-Methylnaphthalene

Concen: 12.31 ng/ul

RT: 12.30 min Scan# 1634

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

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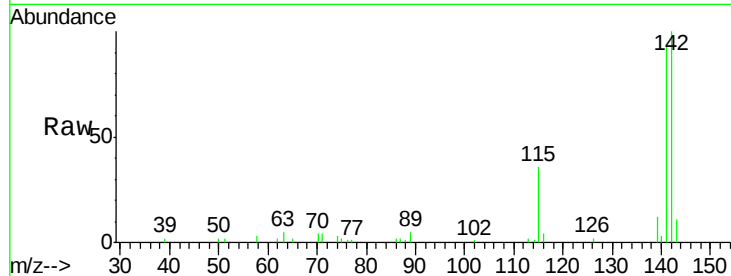
Tgt Ion:142 Resp: 44679

Ion Ratio Lower Upper

142 100

141 93.4 74.9 112.3

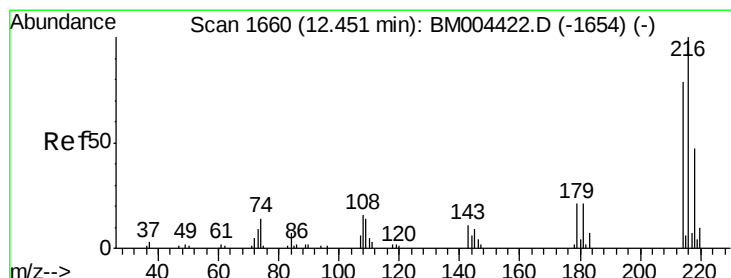
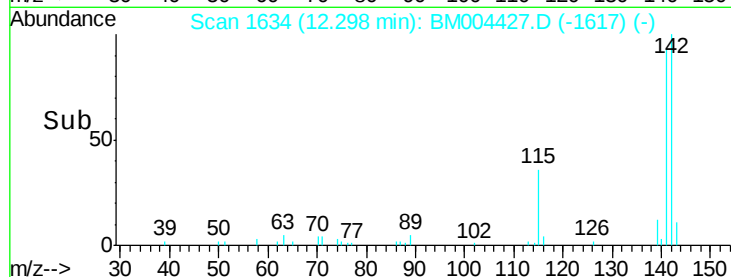
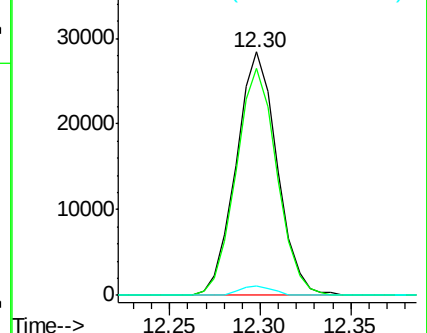
116 3.7 3.1 4.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#37

1,2,4,5-Tetrachlorobenzene

Concen: 6.39 ng/ul

RT: 12.46 min Scan# 1661

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Tgt Ion:216 Resp: 11749

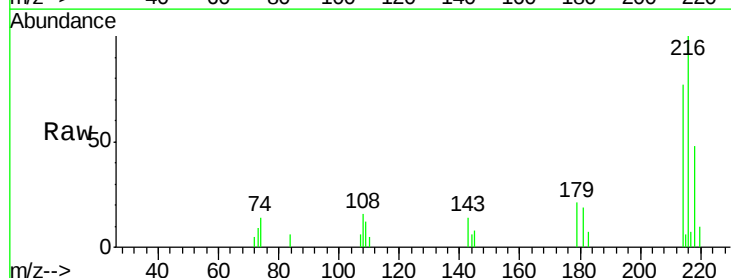
Ion Ratio Lower Upper

216 100

214 76.7 62.5 93.7

179 20.5 18.2 27.2

108 16.1 14.2 21.2

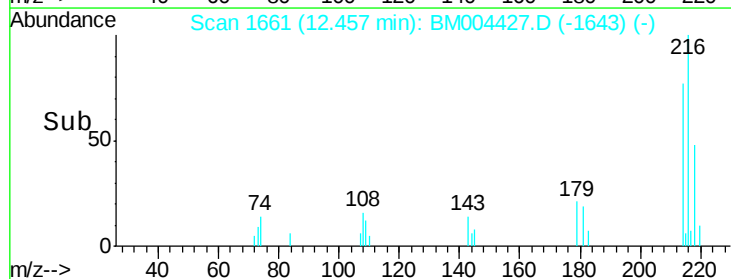
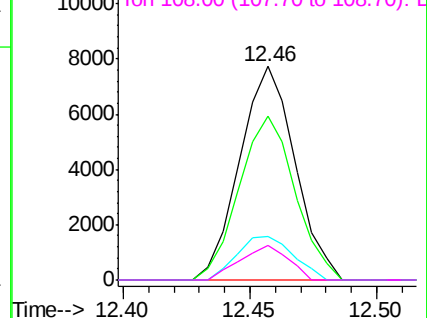


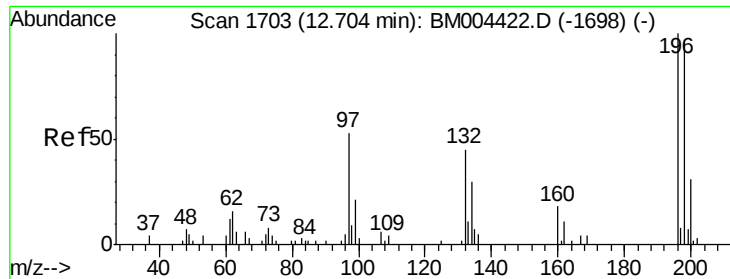
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E

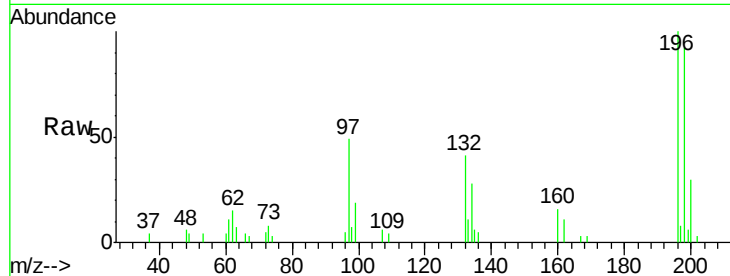




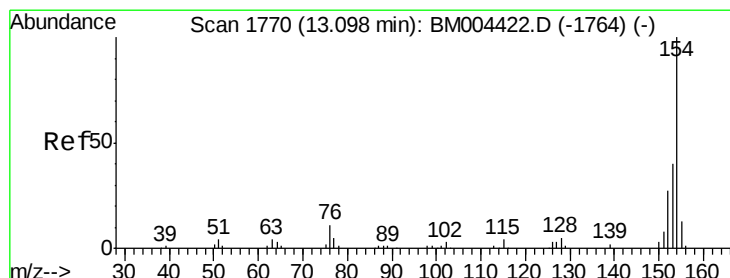
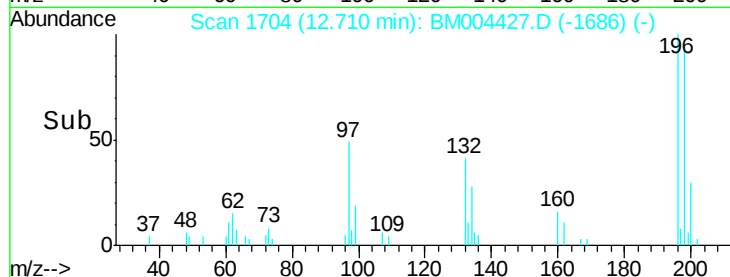
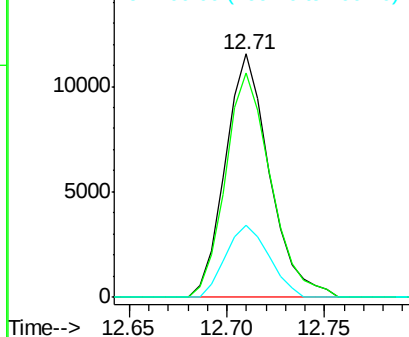
#39
 2,4,6-Trichlorophenol
 Concen: 15.18 ng/ul
 RT: 12.71 min Scan# 1704
 Delta R.T. 0.01 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Instrument :
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Tgt Ion:196 Resp: 18152
 Ion Ratio Lower Upper
 196 100
 198 92.1 76.6 114.8
 200 29.7 24.7 37.1

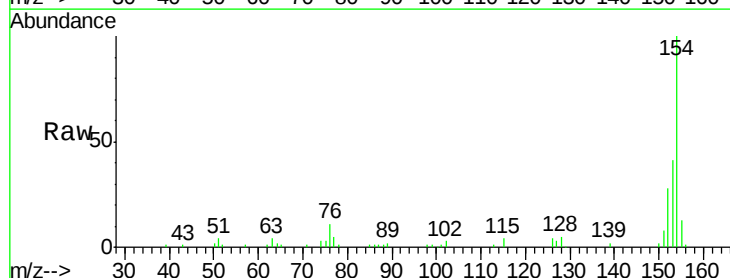


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

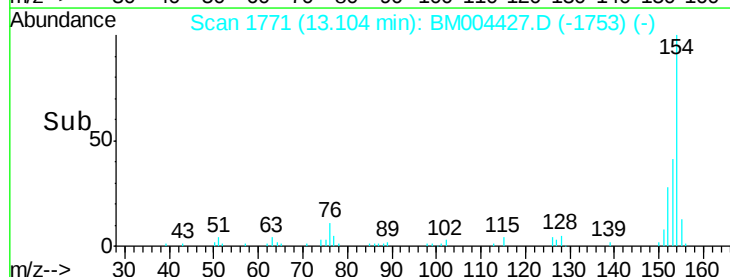
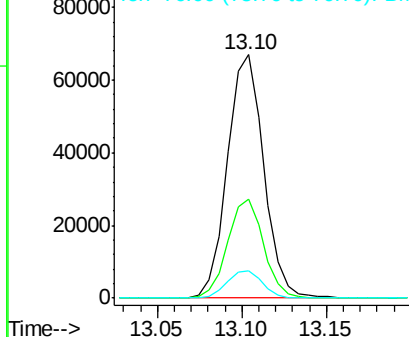


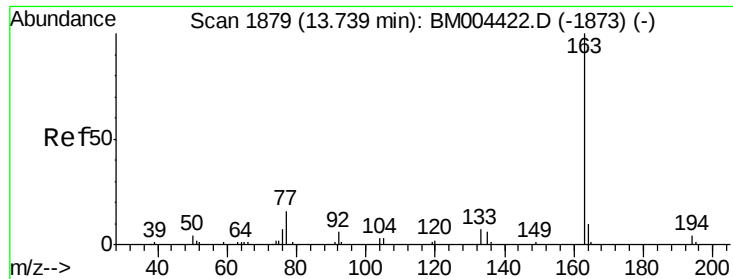
#41
 1,1'-Biphenyl
 Concen: 21.07 ng/ul
 RT: 13.10 min Scan# 1771
 Delta R.T. 0.01 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Tgt Ion:154 Resp: 100122
 Ion Ratio Lower Upper
 154 100
 153 40.7 32.1 48.1
 76 11.0 9.5 14.3



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM





#45

Dimethylphthalate

Concen: 28.38 ng/ul

RT: 13.74 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

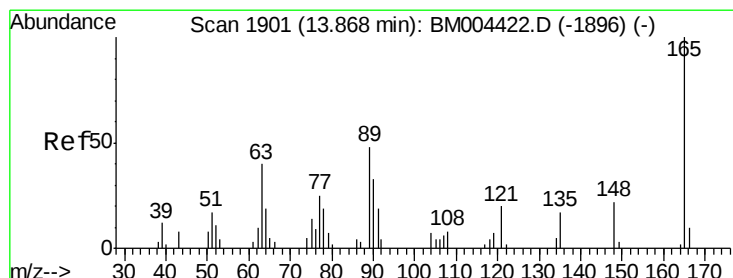
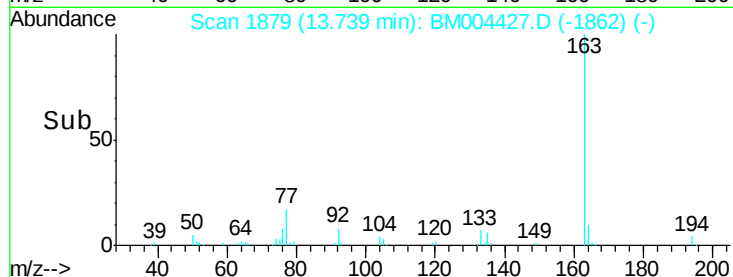
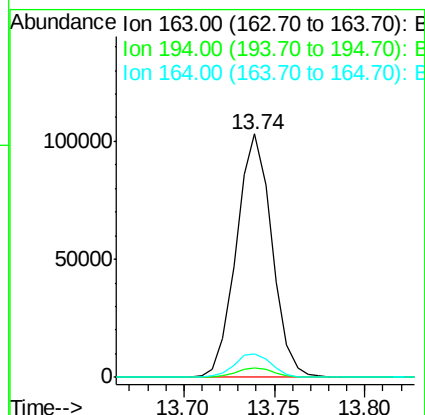
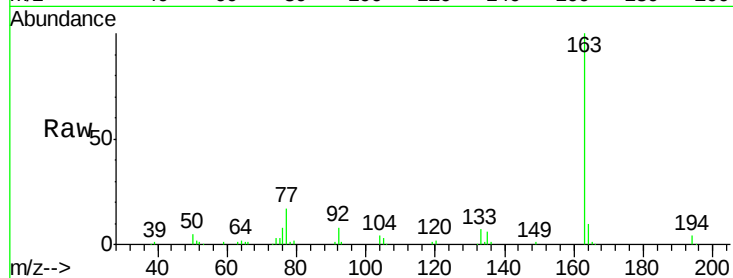
Instrument :

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Tgt Ion:	163	Resp:	140411
Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.2	4.8
164	9.9	7.8	11.8



#46

2,6-Dinitrotoluene

Concen: 13.73 ng/ul

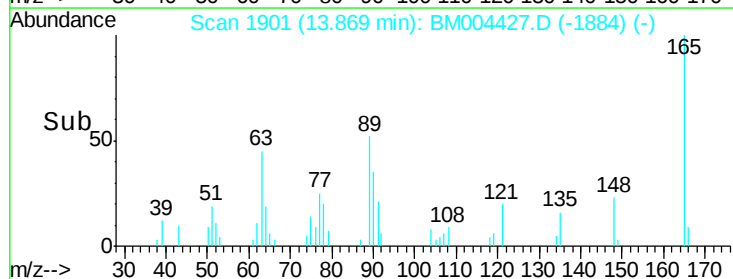
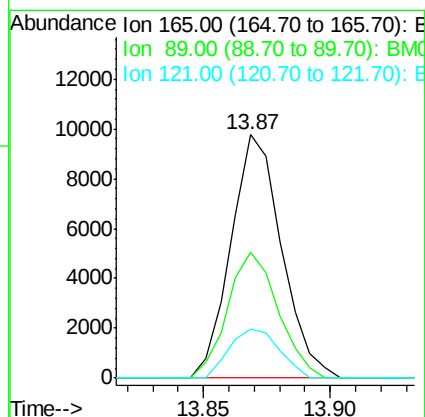
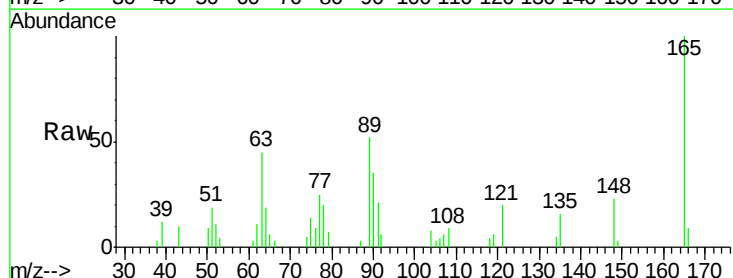
RT: 13.87 min Scan# 1901

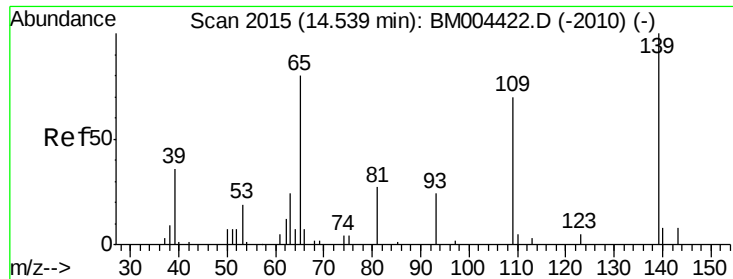
Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Tgt Ion:	165	Resp:	13621
Ion	Ratio	Lower	Upper
165	100		
89	51.7	42.4	63.6
121	20.3	16.6	24.8

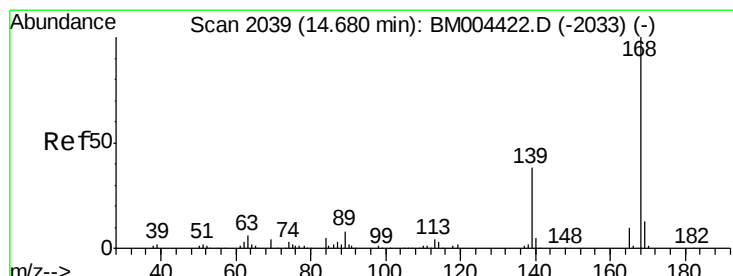
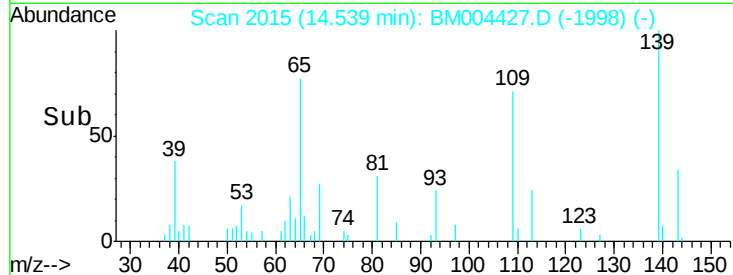
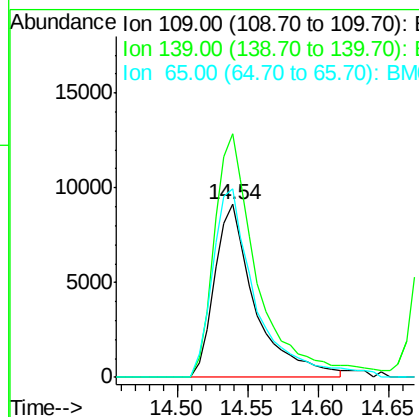
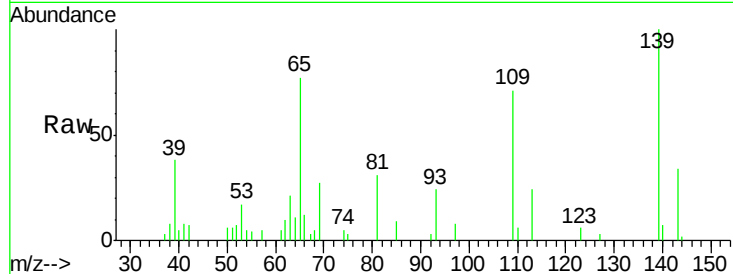




#53
 4-Nitrophenol
 Concen: 32.22 ng/ul
 RT: 14.54 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

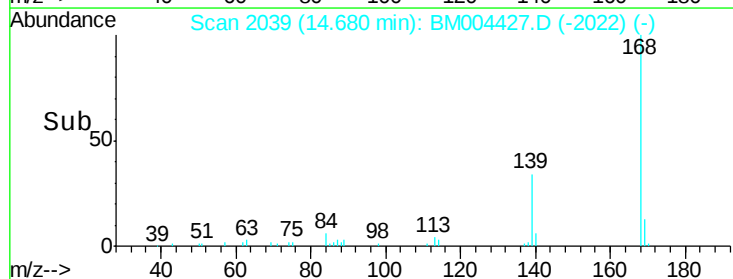
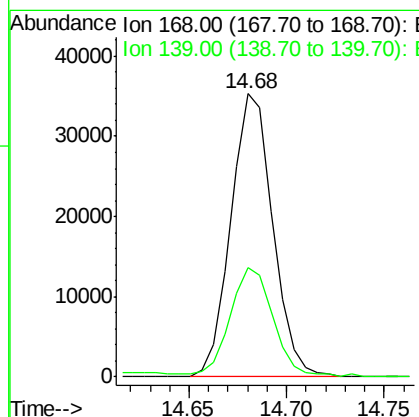
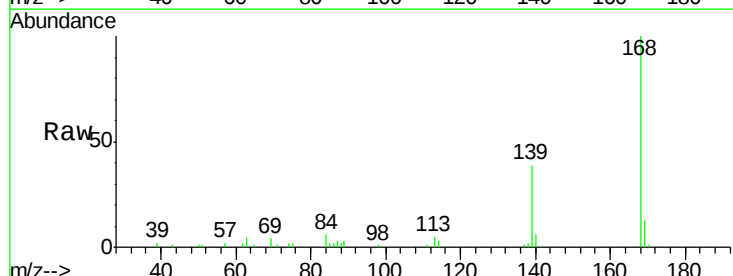
Instrument :
 BNA_M
 ClientSampleId :
 D9R23

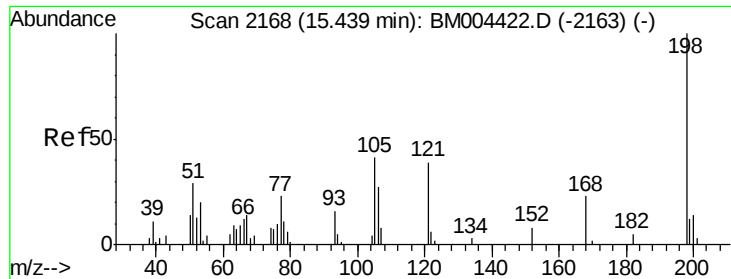
Tgt Ion:109 Resp: 18368
 Ion Ratio Lower Upper
 109 100
 139 141.0 103.7 155.5
 65 109.1 89.4 134.2



#54
 Dibenzofuran
 Concen: 9.13 ng/ul
 RT: 14.68 min Scan# 2039
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Tgt Ion:168 Resp: 52597
 Ion Ratio Lower Upper
 168 100
 139 38.5 32.2 48.2

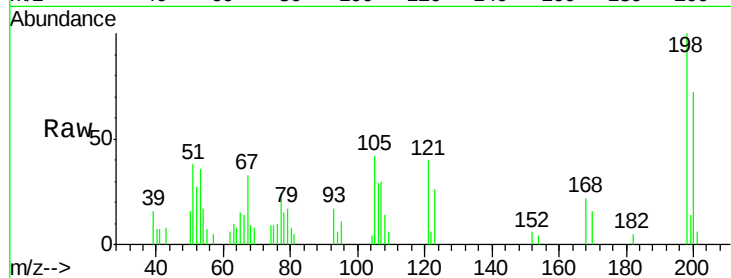




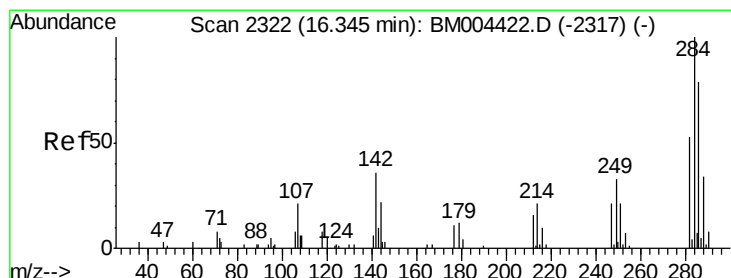
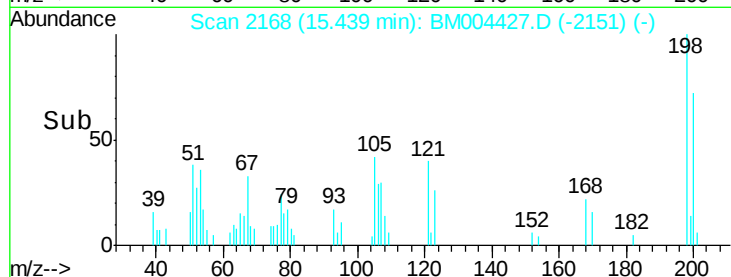
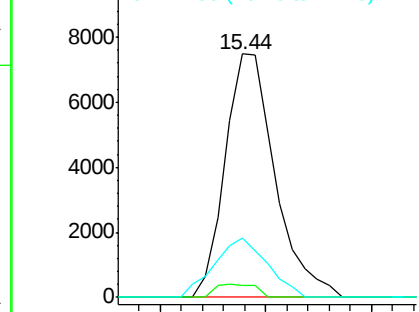
#64
 4,6-Dinitro-2-methylphenol
 Concen: 16.28 ng/ul
 RT: 15.44 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Instrument :
 BNA_M
 ClientSampleId :
 D9R23

Tgt Ion	Ratio	Lower	Upper
198	100		
182	4.9	3.1	4.7#
77	24.4	20.1	30.1

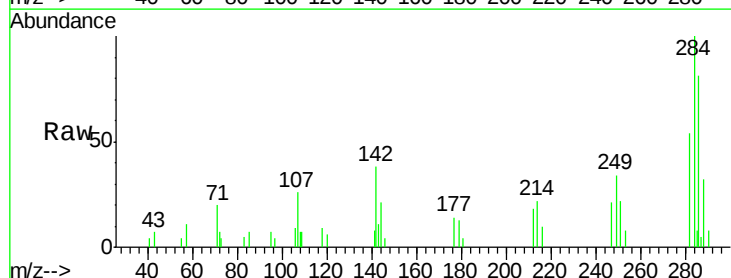


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 77.00 (76.70 to 77.70): B

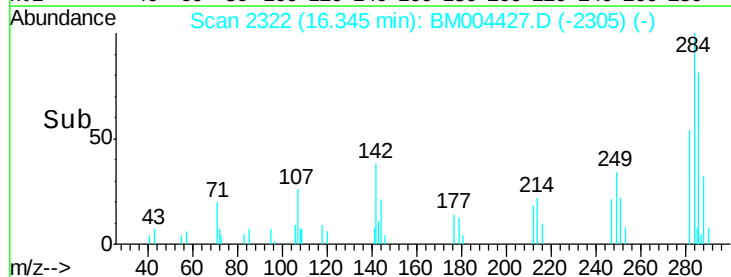
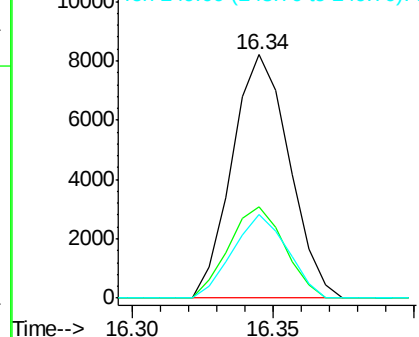


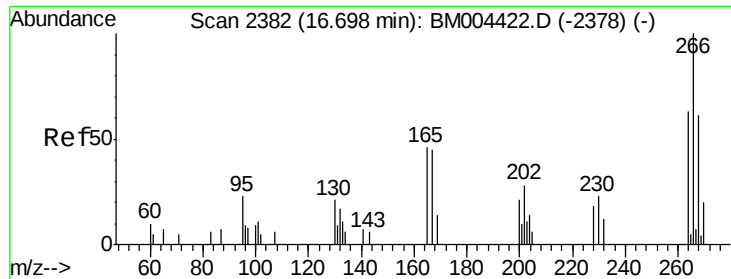
#67
 Hexachlorobenzene
 Concen: 8.40 ng/ul
 RT: 16.34 min Scan# 2322
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.5	33.1	49.7
249	34.4	27.1	40.7



Abundance Ion 284.00 (283.70 to 284.70): E
 Ion 142.00 (141.70 to 142.70): E
 Ion 249.00 (248.70 to 249.70): E

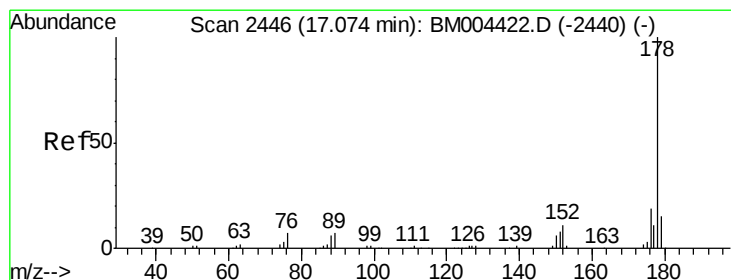
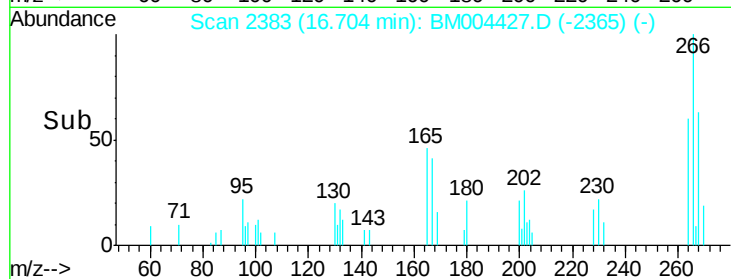
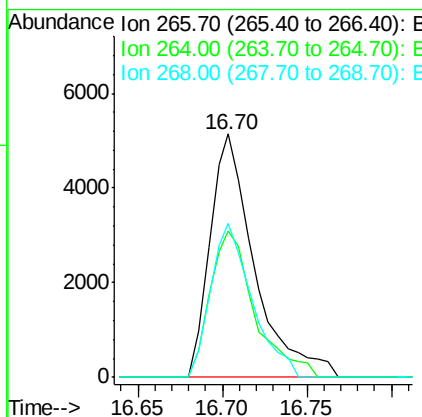
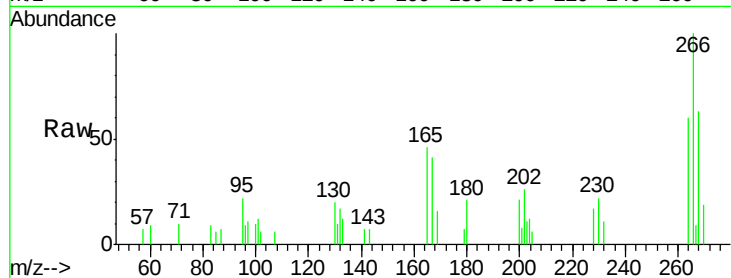




#69
 Pentachlorophenol
 Concen: 17.30 ng/ul
 RT: 16.70 min Scan# 2383
 Delta R.T. 0.01 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

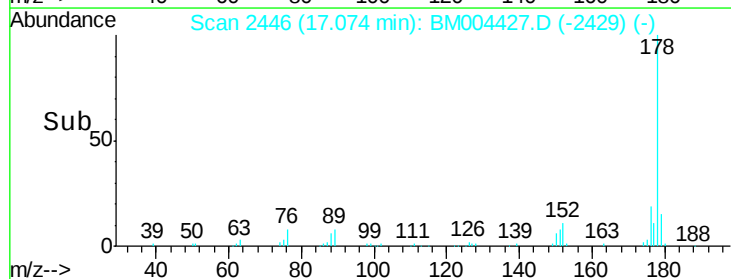
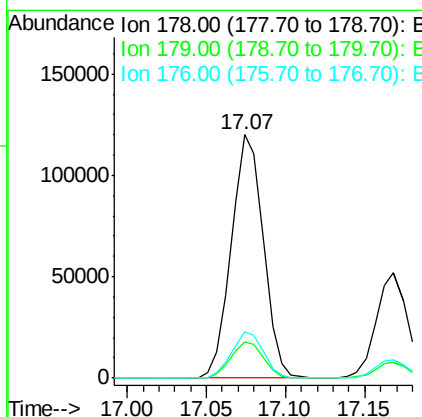
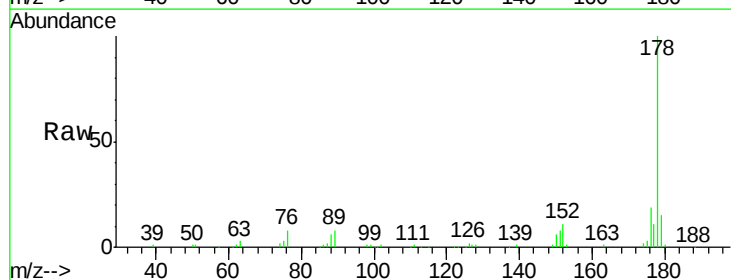
Instrument :
 BNA_M
 ClientSampleId :
 D9R23

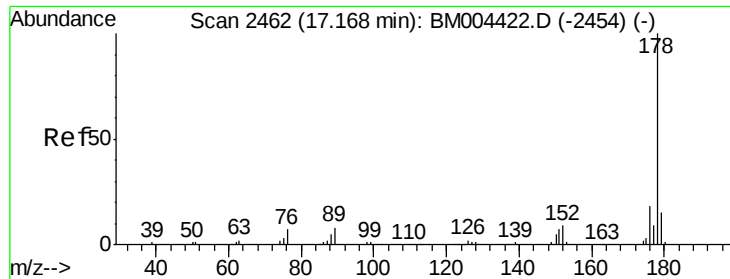
Tgt Ion:266 Resp: 9384
 Ion Ratio Lower Upper
 266 100
 264 60.0 50.5 75.7
 268 63.2 50.9 76.3



#70
 Phenanthrene
 Concen: 24.71 ng/ul
 RT: 17.07 min Scan# 2446
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Tgt Ion:178 Resp: 168401
 Ion Ratio Lower Upper
 178 100
 179 15.1 12.2 18.4
 176 19.1 15.6 23.4





#72

Anthracene

Concen: 10.47 ng/ul

RT: 17.17 min Scan# 2462

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

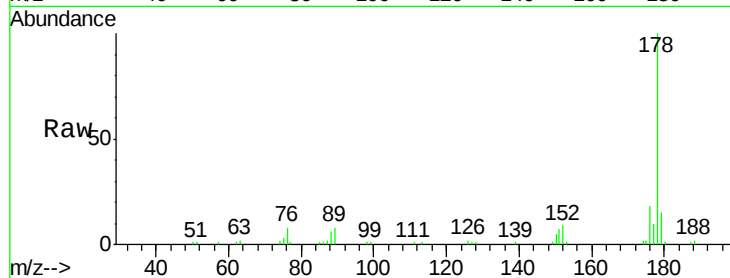
BNA_M

ClientSampleId :

D9R23

Tgt Ion:178 Resp: 72478

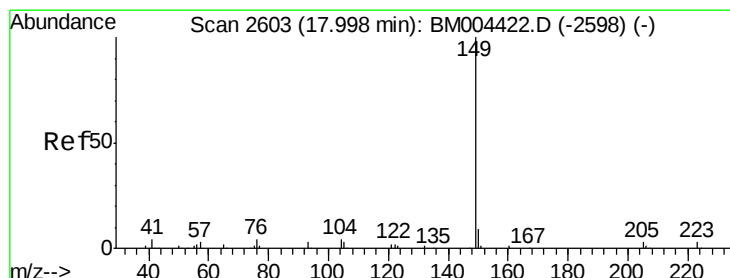
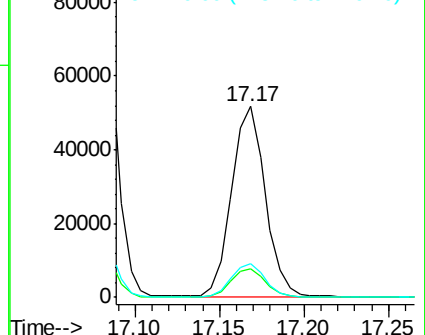
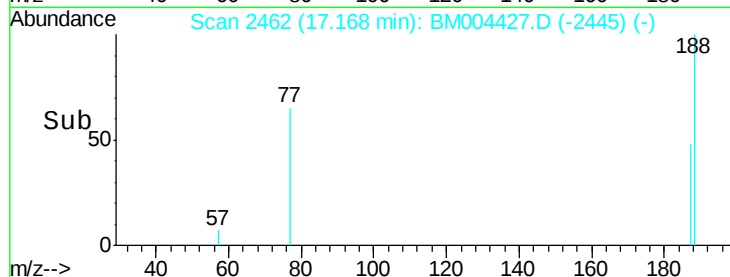
Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.1	18.1
176	17.9	14.8	22.2



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



#76

Di-n-butylphthalate

Concen: 13.45 ng/ul

RT: 18.00 min Scan# 2604

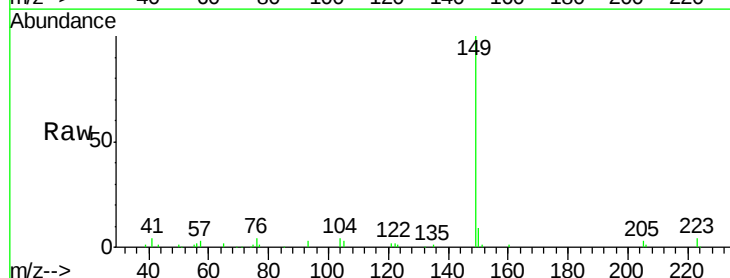
Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Tgt Ion:149 Resp: 112651

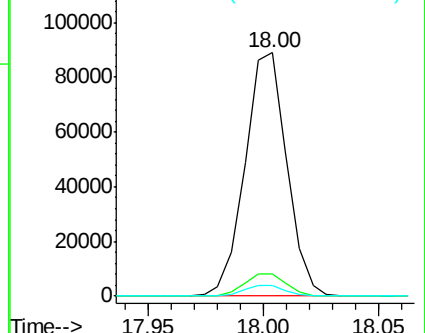
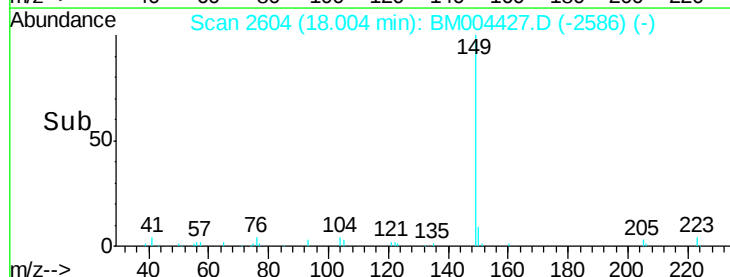
Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.2	4.0	6.0

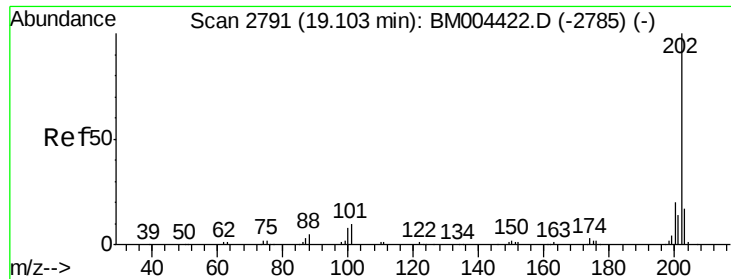


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

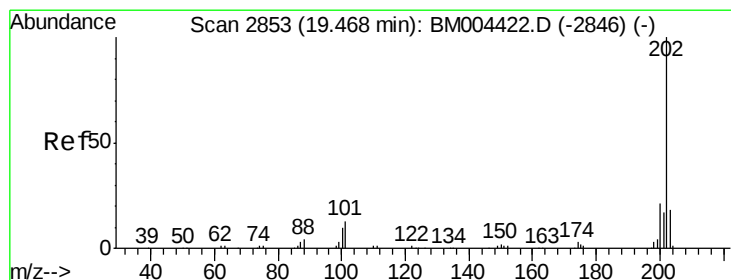
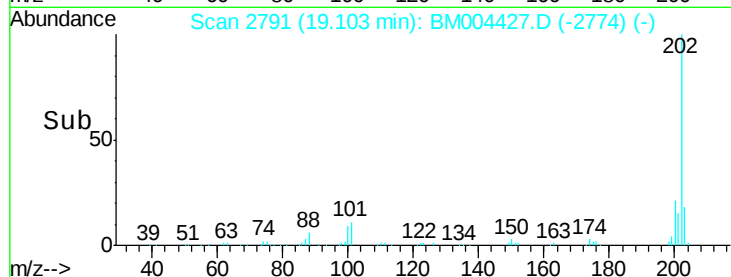
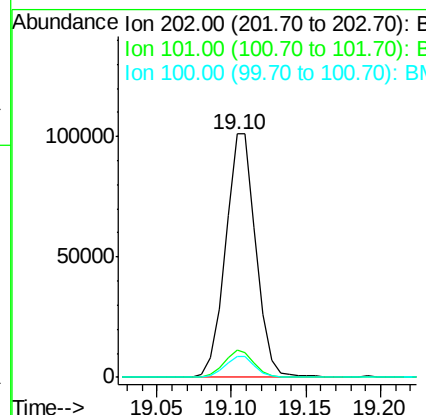
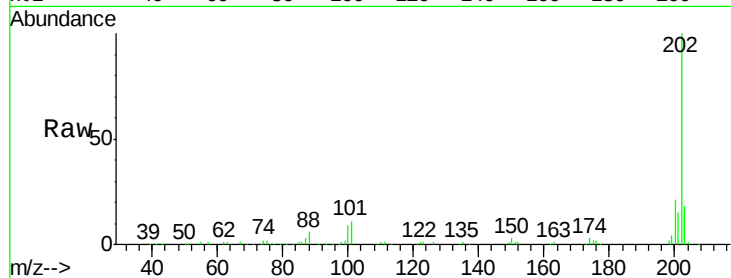




#77
Fluoranthene
 Concen: 18.68 ng/ul
 RT: 19.10 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

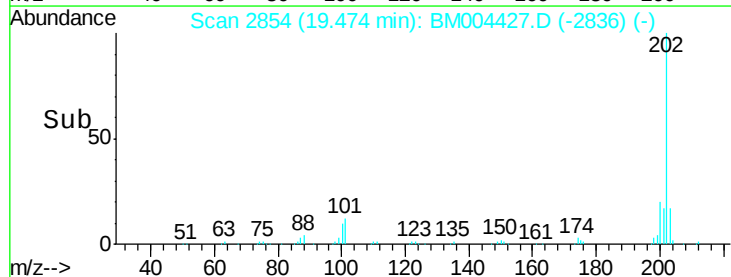
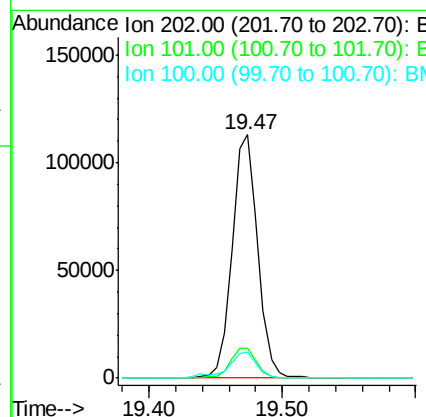
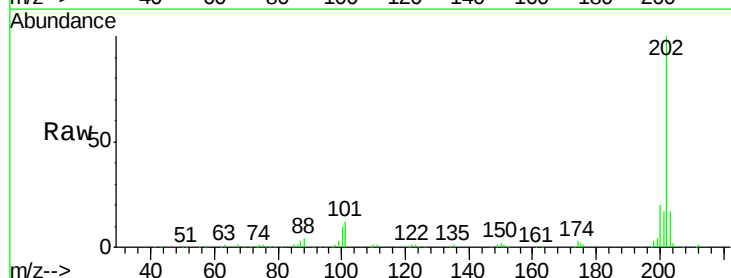
Instrument :
 BNA_M
 ClientSampleId :
 D9R23

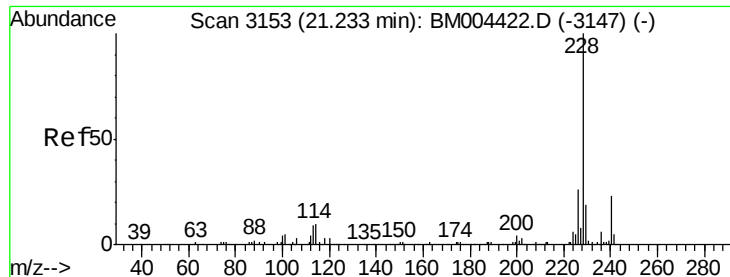
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.8	13.2
100	8.6	6.6	9.8



#80
Pyrene
 Concen: 23.54 ng/ul
 RT: 19.47 min Scan# 2854
 Delta R.T. 0.01 min
 Lab File: BM004427.D
 Acq: 26 Feb 2016 14:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	10.2	15.2
100	10.4	8.5	12.7





#83

Benzo(a)anthracene

Concen: 16.99 ng/ul

RT: 21.29 min Scan# 3162

Delta R.T. 0.05 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

BNA_M

ClientSampled :

D9R23

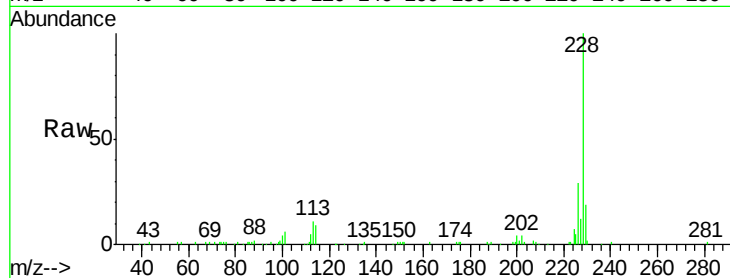
Tgt Ion:228 Resp: 107800

Ion Ratio Lower Upper

228 100

229 19.3 15.7 23.5

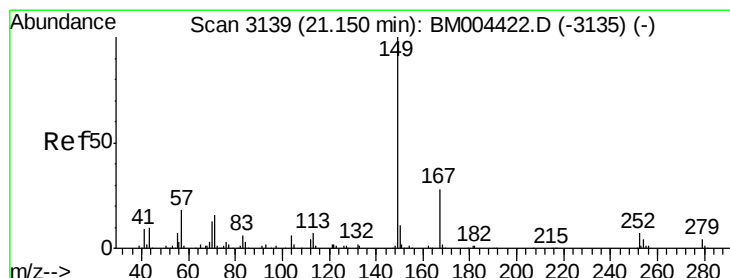
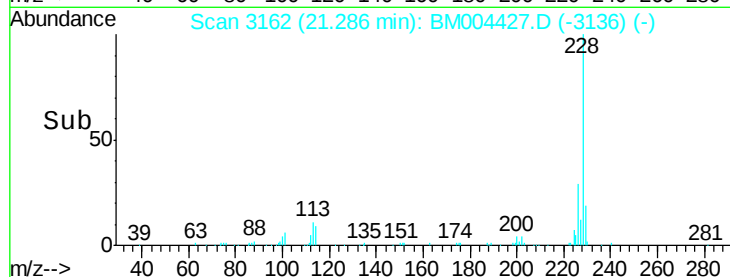
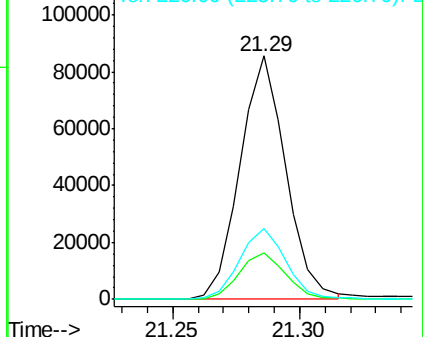
226 29.1 21.8 32.6



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 22.32 ng/ul

RT: 21.16 min Scan# 3140

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

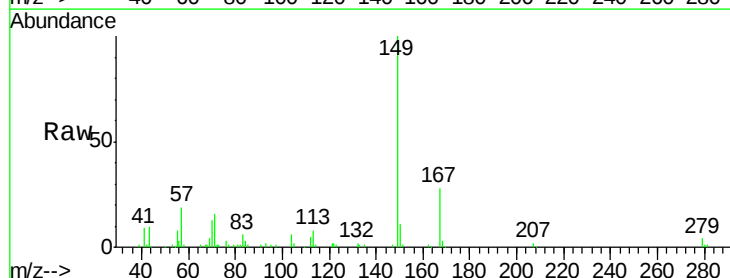
Tgt Ion:149 Resp: 93595

Ion Ratio Lower Upper

149 100

167 28.5 21.6 32.4

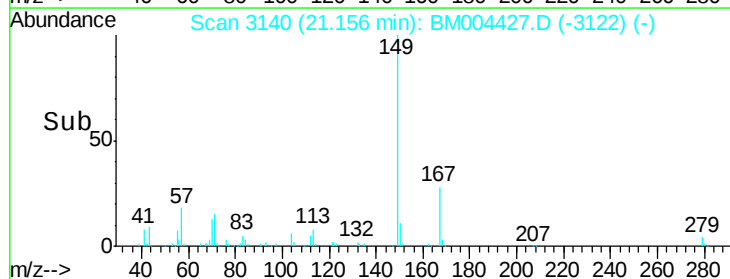
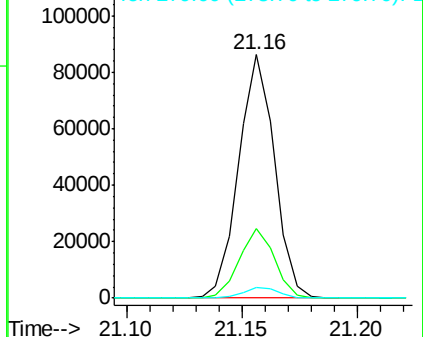
279 4.3 3.0 4.4

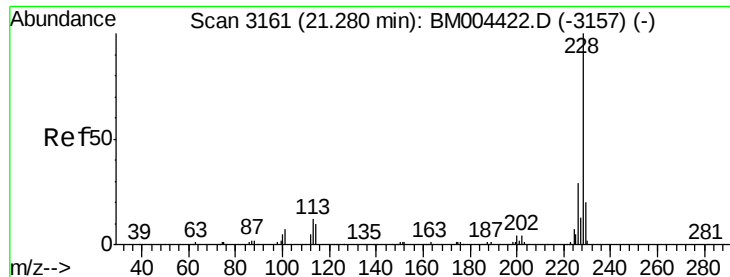


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 18.09 ng/u1

RT: 21.29 min Scan# 3162

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

BNA_M

ClientSampled :

D9R23

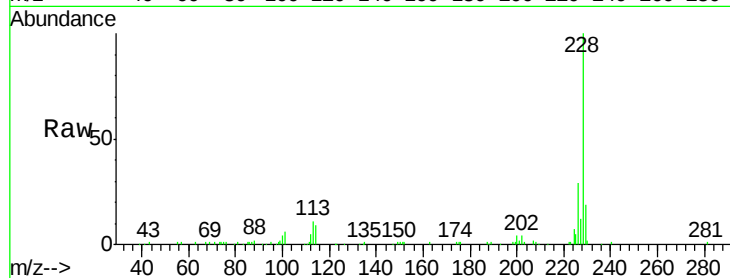
Tgt Ion:228 Resp: 110415

Ion Ratio Lower Upper

228 100

226 29.1 24.0 36.0

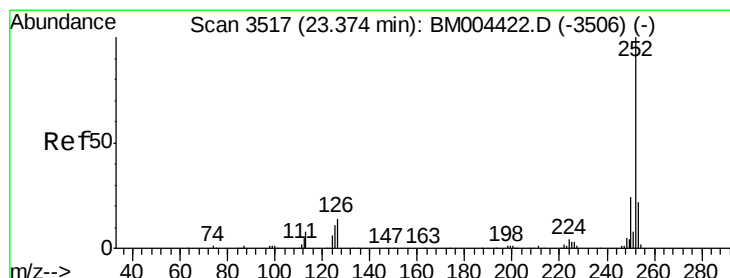
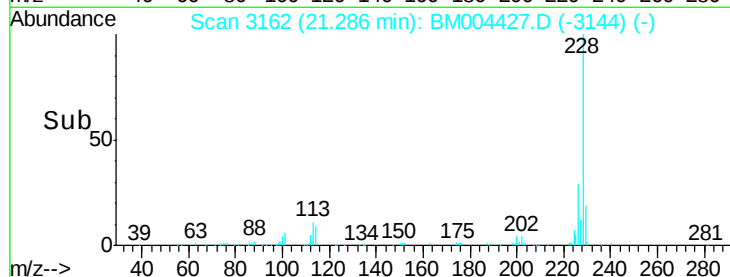
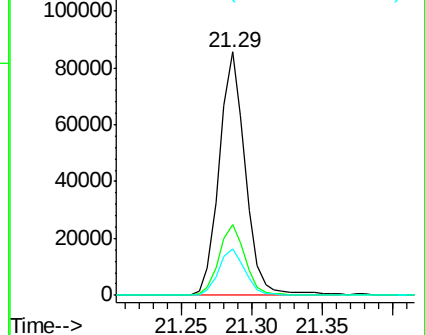
229 19.3 15.6 23.4



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



#91

Benzo(a)pyrene

Concen: 16.73 ng/u1

RT: 23.37 min Scan# 3517

Delta R.T. 0.00 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

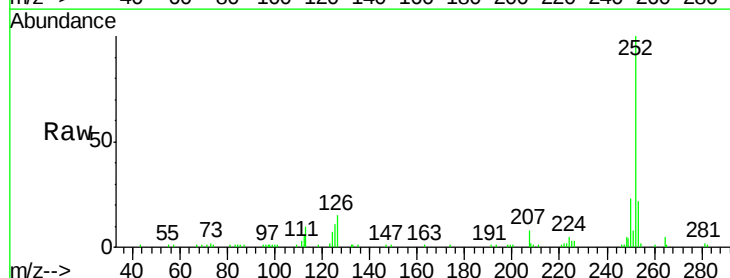
Tgt Ion:252 Resp: 99558

Ion Ratio Lower Upper

252 100

253 21.6 17.2 25.8

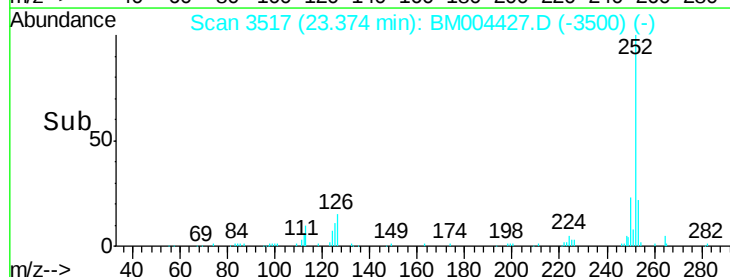
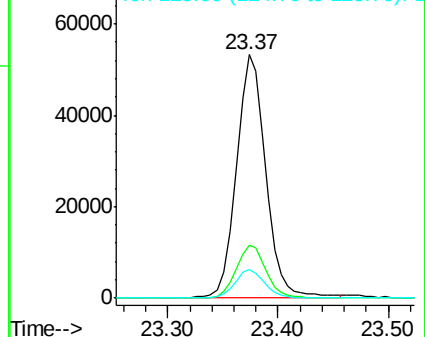
125 11.5 9.0 13.6

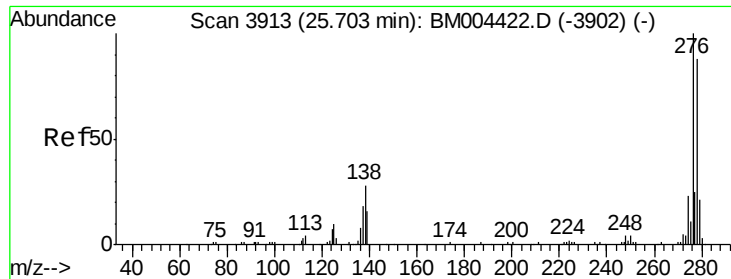


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 22.24 ng/ul

RT: 25.71 min Scan# 3914

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

Instrument :

BNA_M

ClientSampled :

D9R23

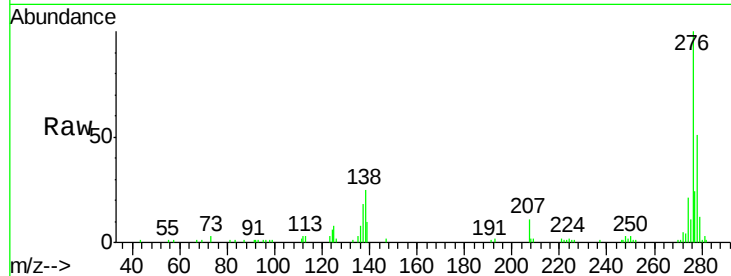
Tgt Ion:276 Resp: 123770

Ion Ratio Lower Upper

276 100

138 25.4 22.3 33.5

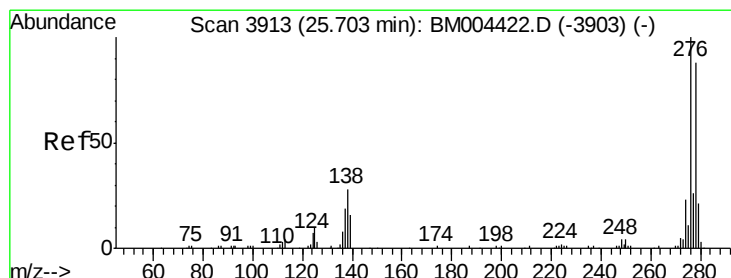
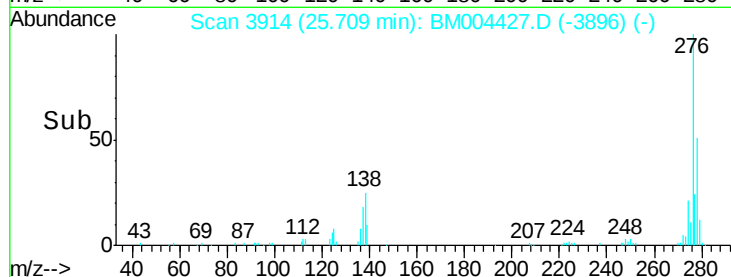
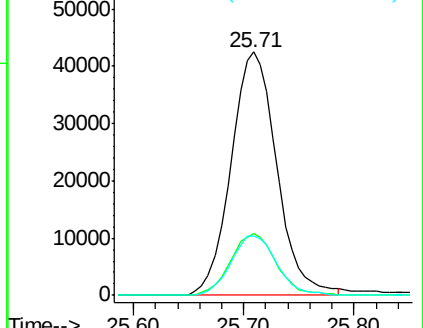
277 24.3 20.2 30.2



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



#93

Dibenzo(a,h)anthracene

Concen: 13.93 ng/ul

RT: 25.71 min Scan# 3915

Delta R.T. 0.01 min

Lab File: BM004427.D

Acq: 26 Feb 2016 14:42

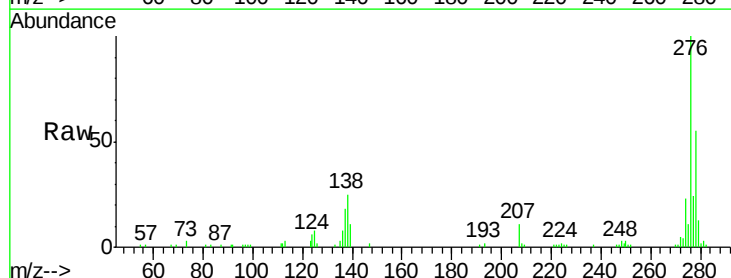
Tgt Ion:278 Resp: 63963

Ion Ratio Lower Upper

278 100

139 19.3 13.9 20.9

279 23.1 19.0 28.4



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

