

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122315\  
 Data File : BM003735.D  
 Acq On : 23 Dec 2015 07:31  
 Operator : UM/SJ  
 Sample : G4869-15  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LTCWC-05

Quant Time: Dec 23 10:35:21 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM120915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 09 18:52:47 2015  
 Response via : Initial Calibration

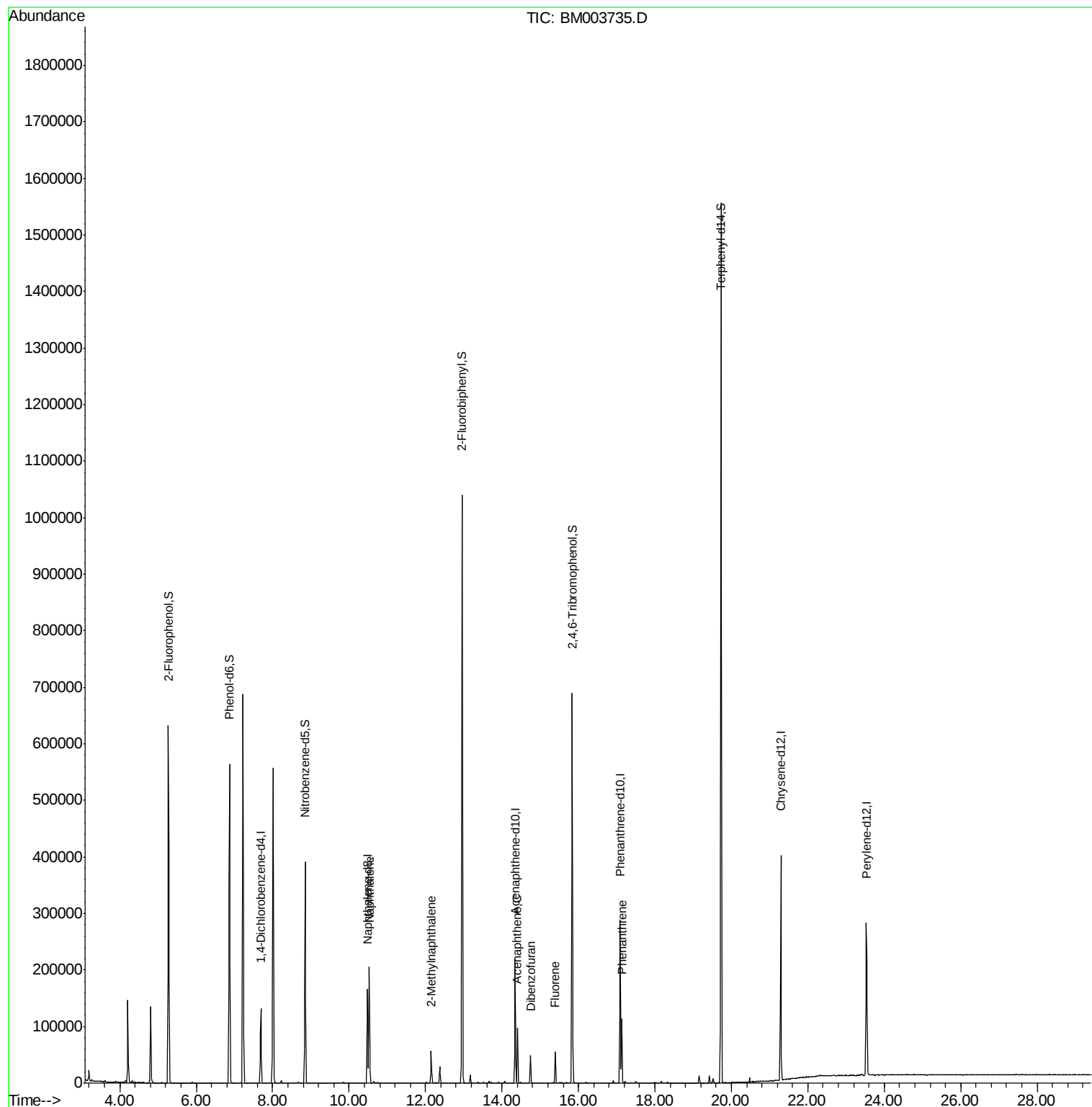
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.69  | 152  | 37344    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.48 | 136  | 145942   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10        | 14.35 | 164  | 74036    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 17.09 | 188  | 160896   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 21.29 | 240  | 179731   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 23.53 | 264  | 182509   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.28  | 112  | 290549   | 138.33 | ng    | -0.02    |
| 7) Phenol-d6                | 6.87  | 99   | 337314   | 115.65 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.85  | 82   | 237252   | 100.80 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 15.84 | 330  | 112078   | 151.58 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 12.96 | 172  | 542119   | 99.76  | ng    | -0.04    |
| 78) Terphenyl-d14           | 19.73 | 244  | 690584   | 90.61  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.53 | 128  | 174106   | 22.80  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 12.15 | 142  | 30553    | 5.83   | ng    | 95       |
| 51) Acenaphthene            | 14.41 | 154  | 36983    | 7.94   | ng    | 99       |
| 54) Dibenzofuran            | 14.75 | 168  | 34205    | 5.08   | ng    | 94       |
| 57) Fluorene                | 15.39 | 166  | 27361    | 4.90   | ng    | 99       |
| 70) Phenanthrene            | 17.13 | 178  | 68337    | 7.57   | ng    | 99       |

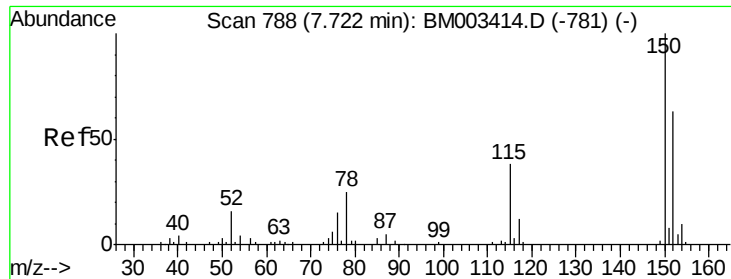
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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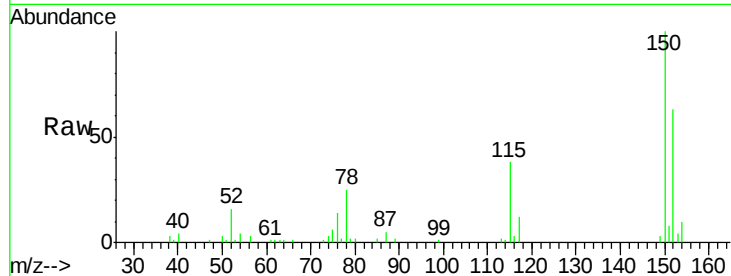




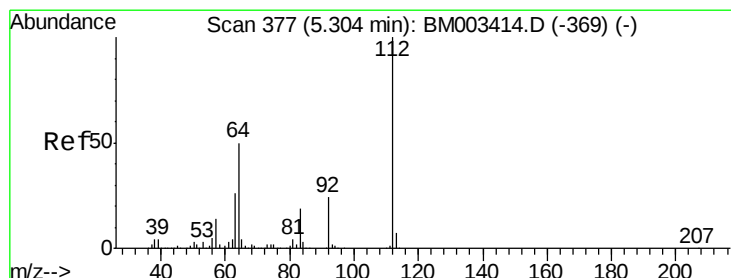
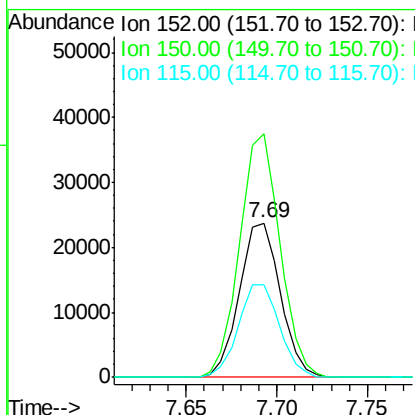
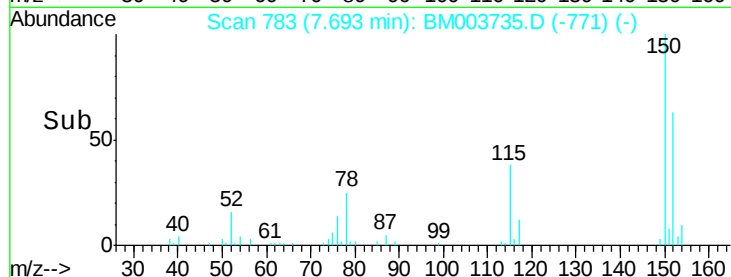
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.69 min Scan# 783  
 Delta R.T. -0.03 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LTCWC-05

Tot Ion:152 Resp: 37344  
 Ion Ratio Lower Upper  
 152 100  
 150 157.5 119.5 179.3  
 115 59.6 43.0 64.4

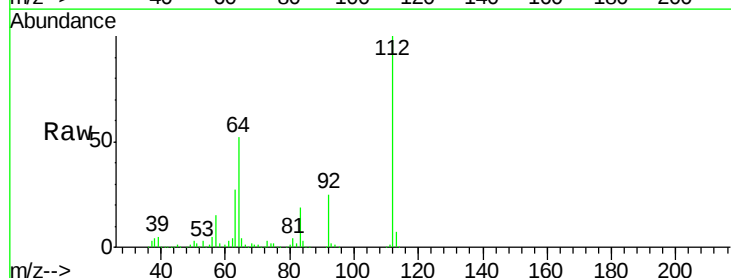


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

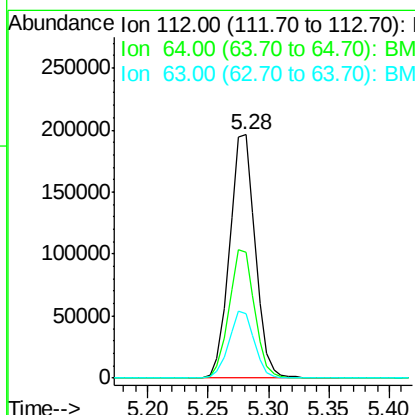
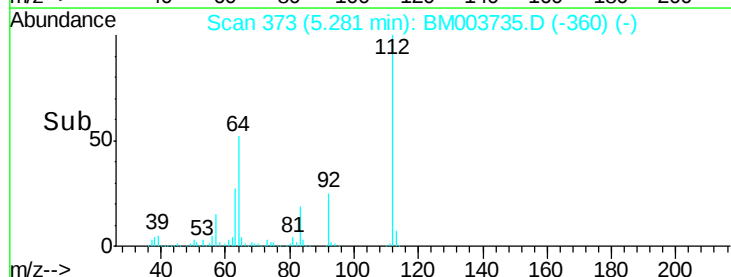


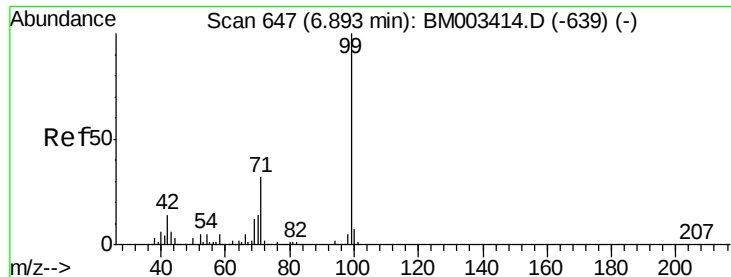
#5  
 2-Fluorophenol  
 Concen: 138.33 ng  
 RT: 5.28 min Scan# 373  
 Delta R.T. -0.02 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

Tgt Ion:112 Resp: 290549  
 Ion Ratio Lower Upper  
 112 100  
 64 51.8 38.6 57.8  
 63 26.7 19.3 28.9



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BM0  
 Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 115.65 ng

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

Instrument :

BNA\_M

ClientSampleId :

LTCWC-05

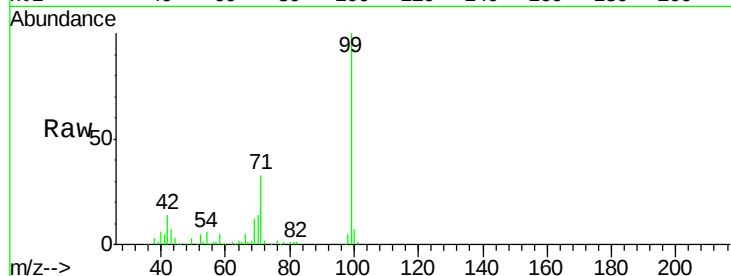
Tot Ion: 99 Resp: 337314

Ion Ratio Lower Upper

99 100

42 14.4 11.0 16.4

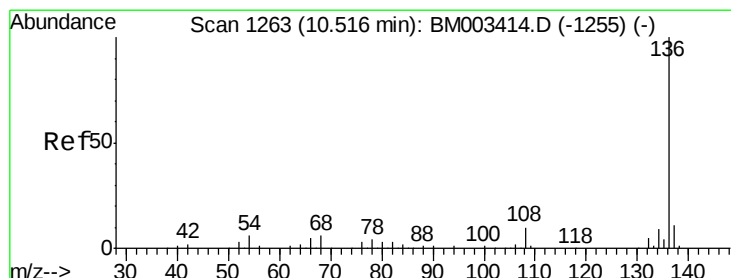
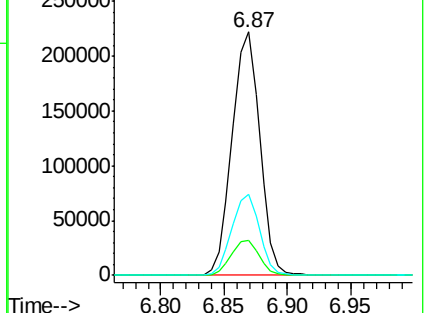
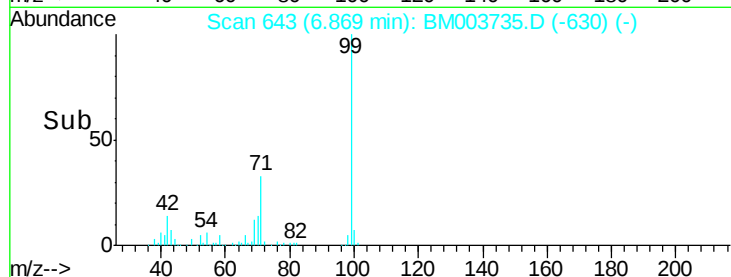
71 33.1 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BM003735.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM003735.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM003735.D (-630) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.48 min Scan# 1257

Delta R.T. -0.04 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

Tgt Ion: 136 Resp: 145942

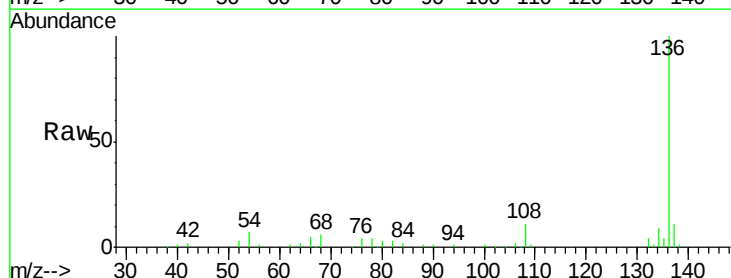
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 6.5 4.6 6.8

68 5.6 3.7 5.5#

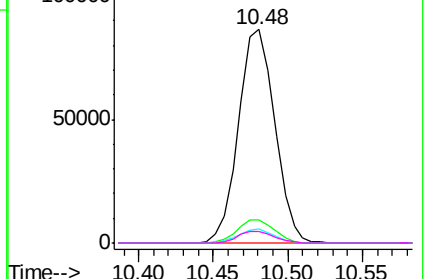
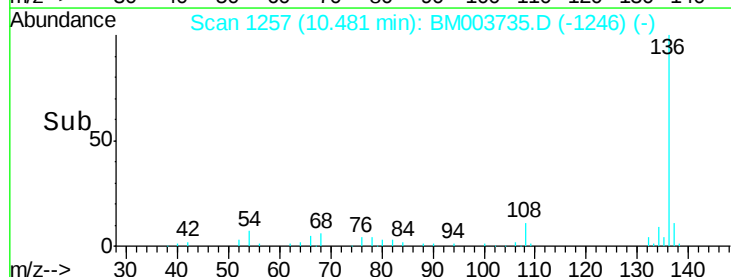


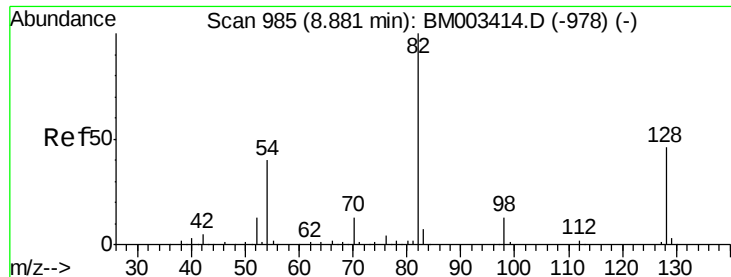
Abundance Ion 136.00 (135.70 to 136.70): BM003735.D (-1246) (-)

Ion 137.00 (136.70 to 137.70): BM003735.D (-1246) (-)

Ion 54.00 (53.70 to 54.70): BM003735.D (-1246) (-)

Ion 68.00 (67.70 to 68.70): BM003735.D (-1246) (-)

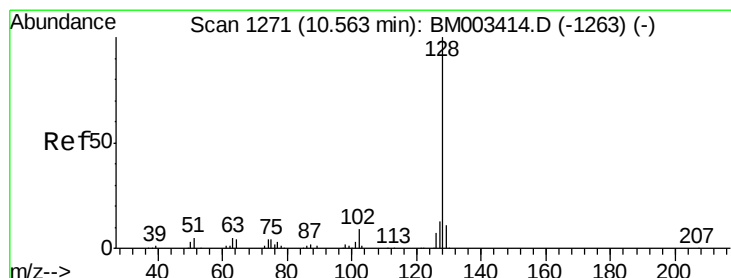
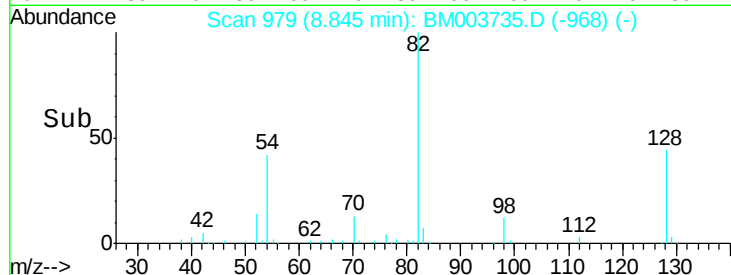
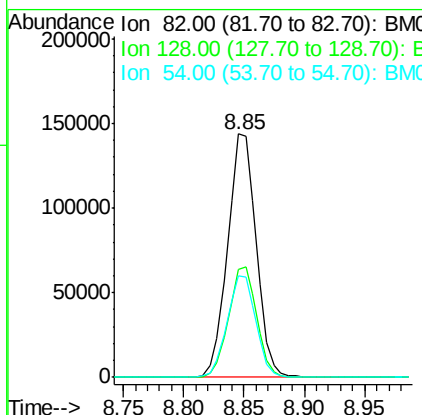
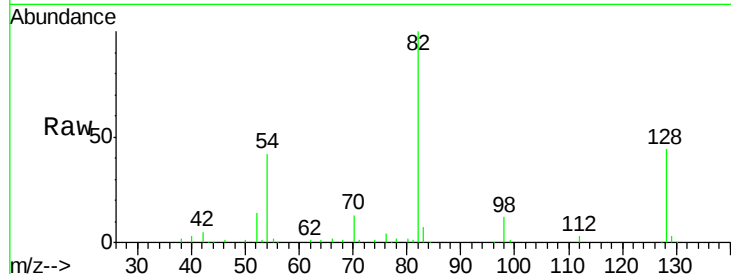




#23  
 Nitrobenzene-d5  
 Concen: 100.80 ng  
 RT: 8.85 min Scan# 979  
 Delta R.T. -0.04 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

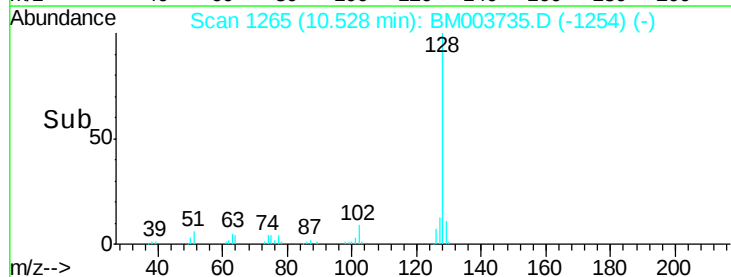
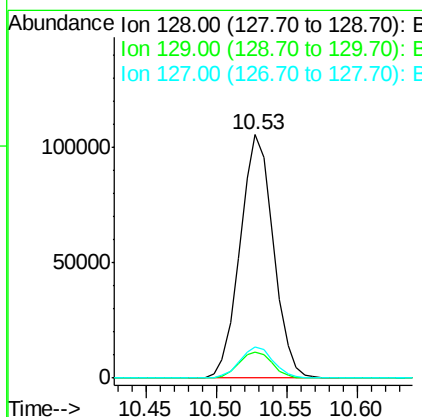
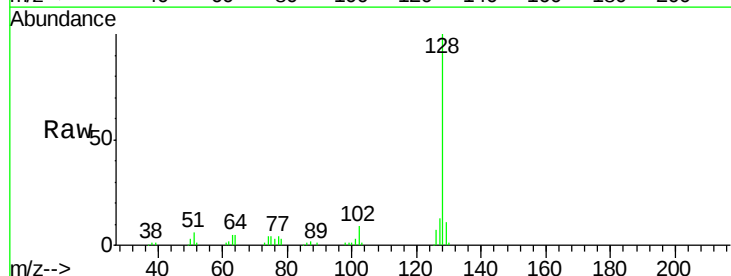
Instrument :  
 BNA\_M  
 ClientSampleID :  
 LTCWC-05

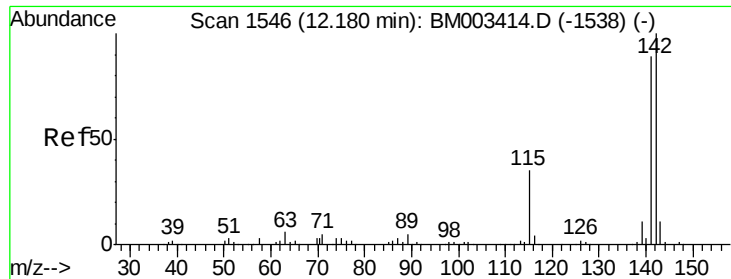
| Tot Ion   | 82    | Resp  | 237252 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.4  | 32.8  | 49.2   |
| 54        | 41.5  | 40.6  | 60.8   |



#31  
 Naphthalene  
 Concen: 22.80 ng  
 RT: 10.53 min Scan# 1265  
 Delta R.T. -0.04 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

| Tgt Ion   | 128   | Resp  | 174106 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.8  | 8.9   | 13.3   |
| 127       | 12.8  | 10.4  | 15.6   |

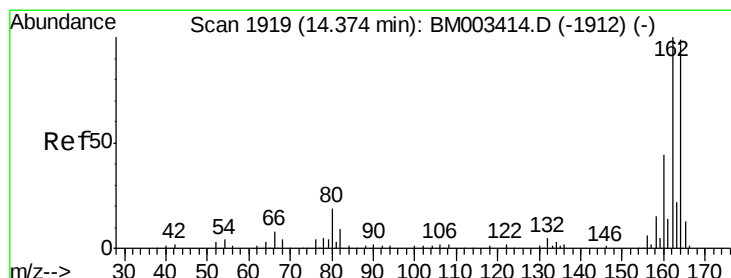
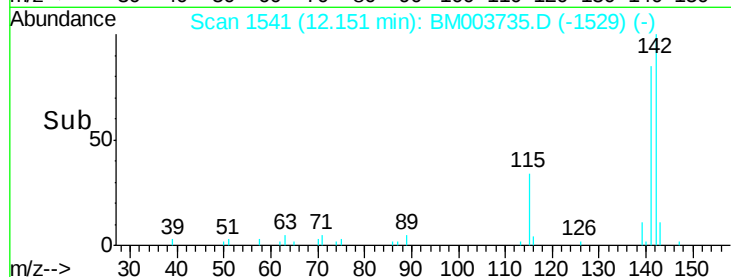
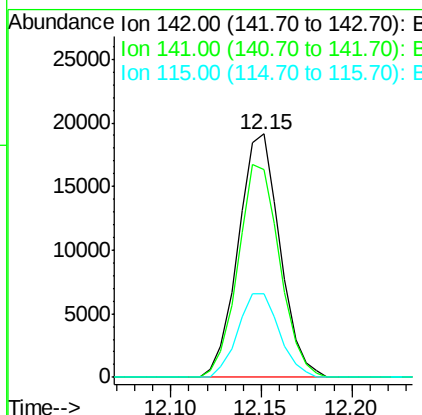
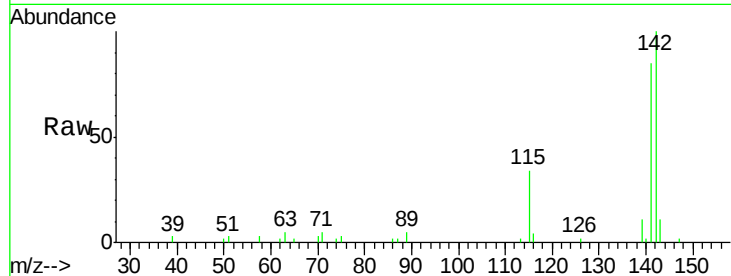




#37  
2-Methylnaphthalene  
Concen: 5.83 ng  
RT: 12.15 min Scan# 1541  
Delta R.T. -0.03 min  
Lab File: BM003735.D  
Acq: 23 Dec 2015 07:31

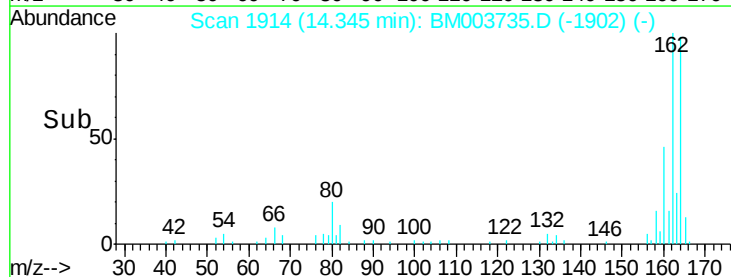
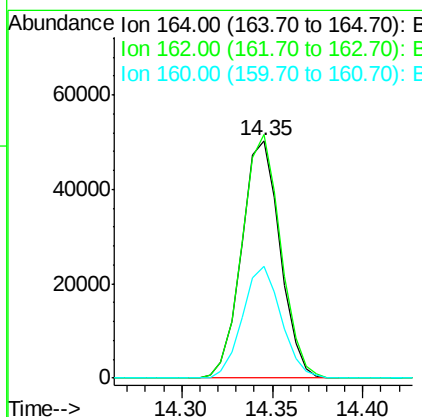
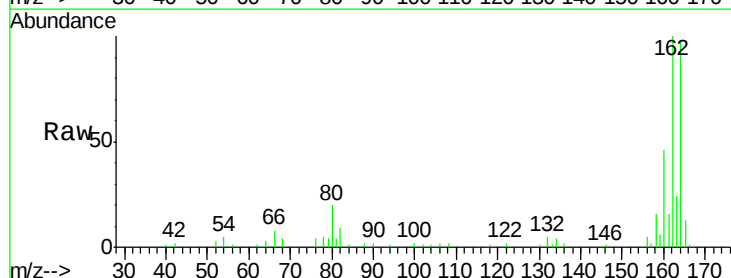
Instrument :  
BNA\_M  
ClientSampleId :  
LTCWC-05

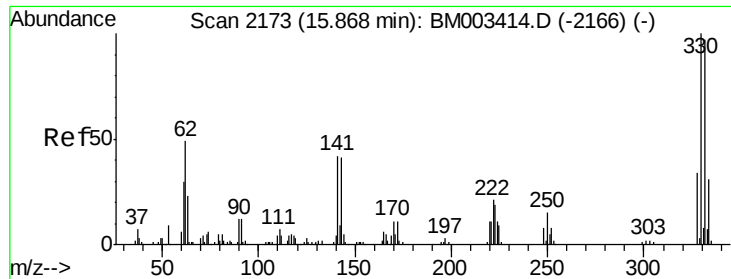
Tot Ion:142 Resp: 30553  
Ion Ratio Lower Upper  
142 100  
141 85.2 71.9 107.9  
115 34.3 25.4 38.0



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.35 min Scan# 1914  
Delta R.T. -0.03 min  
Lab File: BM003735.D  
Acq: 23 Dec 2015 07:31

Tgt Ion:164 Resp: 74036  
Ion Ratio Lower Upper  
164 100  
162 102.5 82.4 123.6  
160 47.0 35.8 53.6

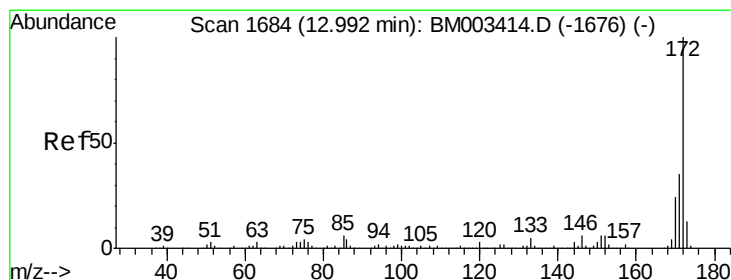
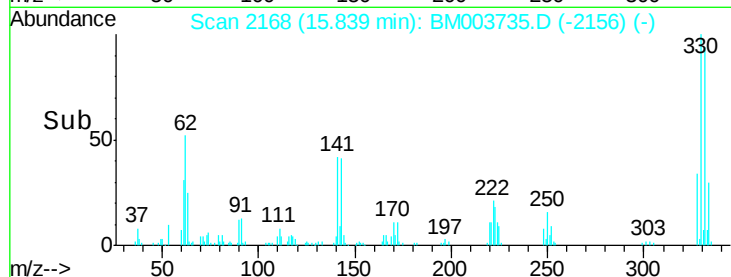
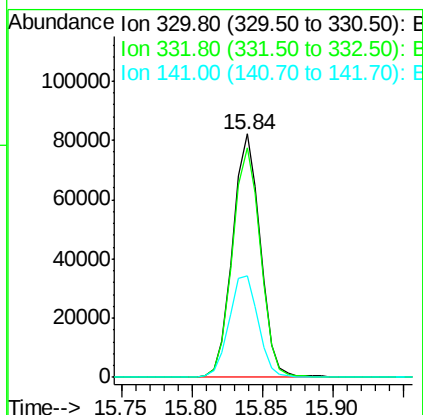
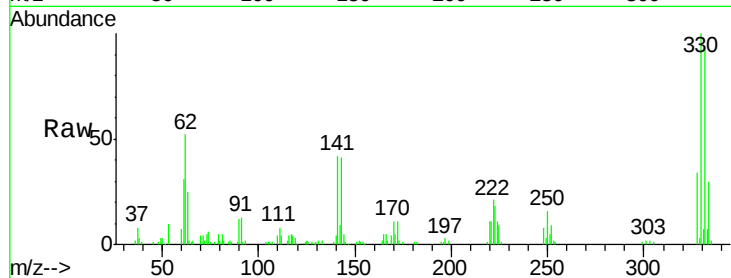




#41  
 2,4,6-Tribromophenol  
 Concen: 151.58 ng  
 RT: 15.84 min Scan# 2168  
 Delta R.T. -0.03 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

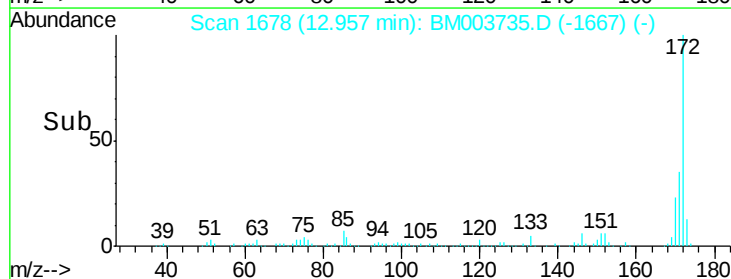
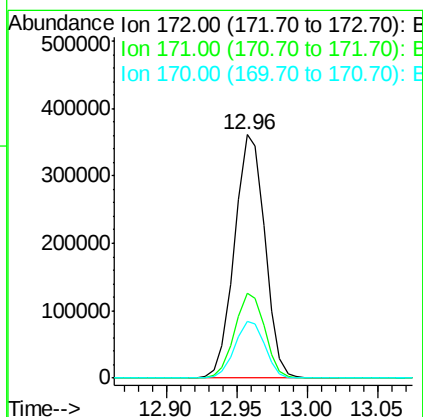
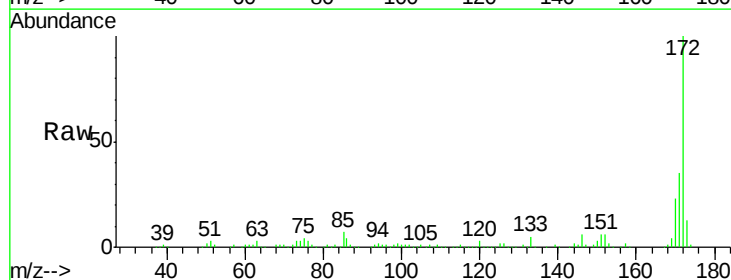
Instrument :  
 BNA\_M  
 ClientSampled :  
 LTCWC-05

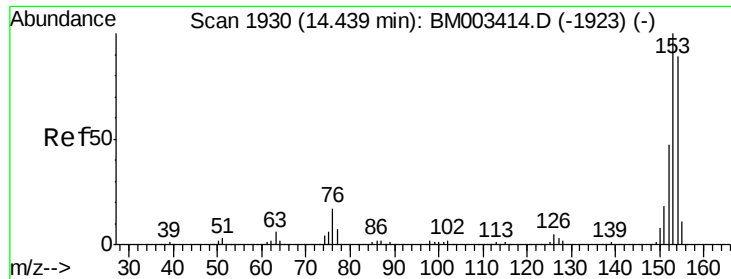
Tot Ion:330 Resp: 112078  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 0.0 0.0#  
 141 43.5 0.0 0.0#



#44  
 2-Fluorobiphenyl  
 Concen: 99.76 ng  
 RT: 12.96 min Scan# 1678  
 Delta R.T. -0.04 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

Tgt Ion:172 Resp: 542119  
 Ion Ratio Lower Upper  
 172 100  
 171 34.8 28.5 42.7  
 170 23.5 18.8 28.2





#51

Acenaphthene

Concen: 7.94 ng

RT: 14.41 min Scan# 1925

Delta R.T. -0.03 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

Instrument :

BNA\_M

ClientSampleId :

LTCWC-05

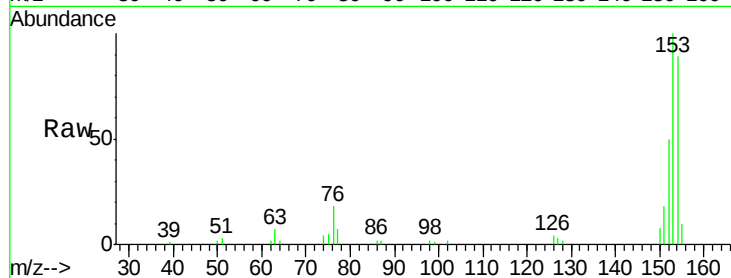
Tot Ion:154 Resp: 36983

Ion Ratio Lower Upper

154 100

153 112.2 90.0 135.0

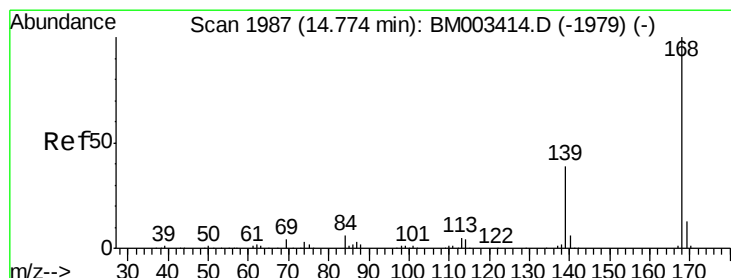
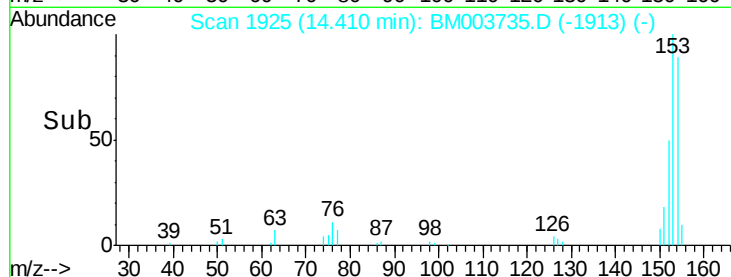
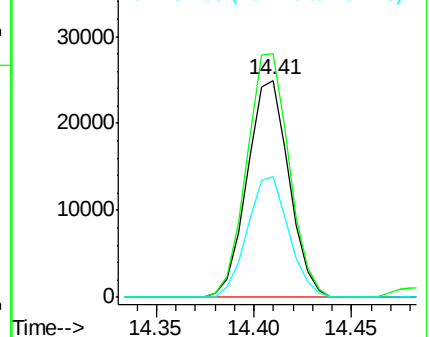
152 55.8 42.6 63.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.08 ng

RT: 14.75 min Scan# 1982

Delta R.T. -0.03 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

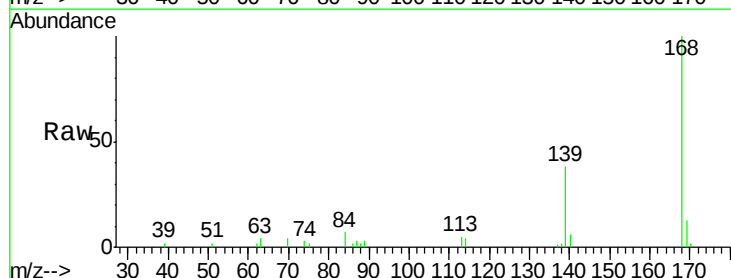
Tgt Ion:168 Resp: 34205

Ion Ratio Lower Upper

168 100

139 38.3 27.3 40.9

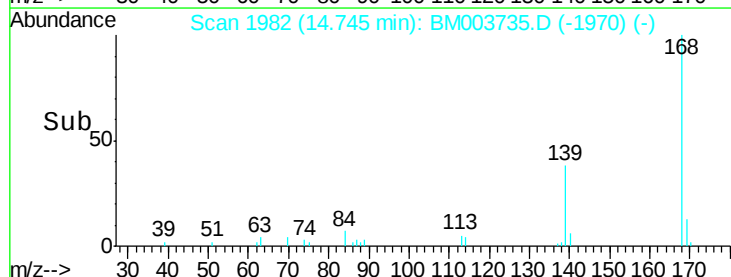
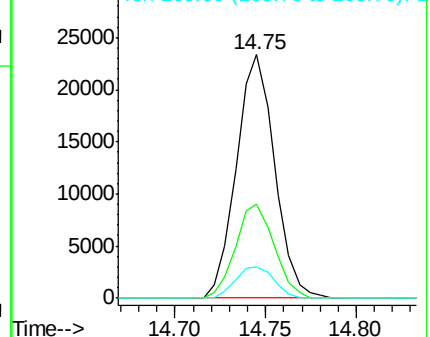
169 12.8 10.6 16.0

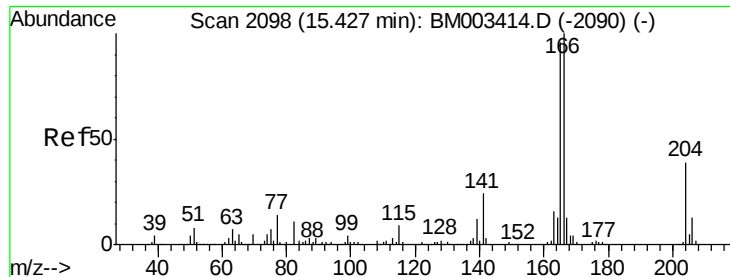


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

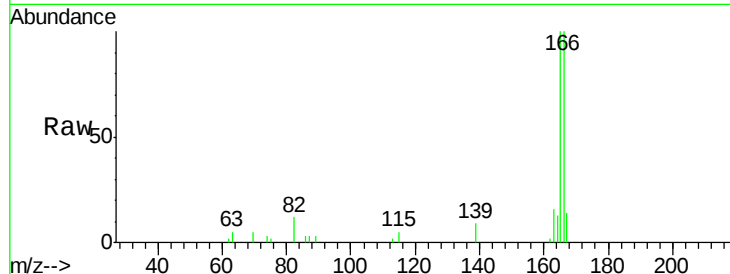




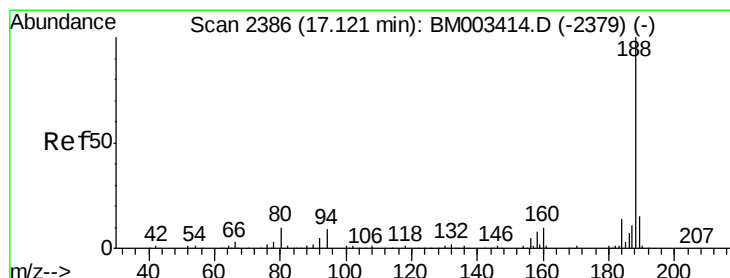
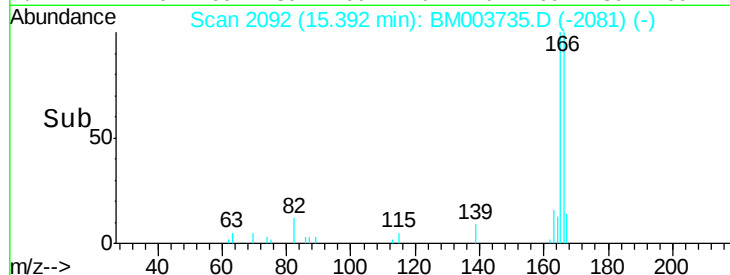
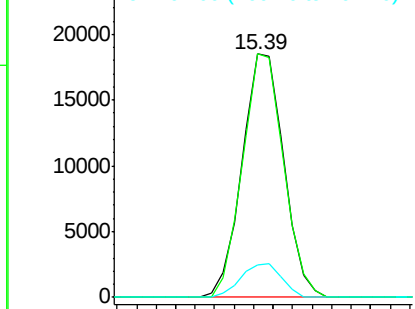
#57  
**Fluorene**  
 Concen: 4.90 ng  
 RT: 15.39 min Scan# 2092  
 Delta R.T. -0.04 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LTCWC-05

Tot Ion:166 Resp: 27361  
 Ion Ratio Lower Upper  
 166 100  
 165 100.0 79.0 118.4  
 167 13.6 10.3 15.5

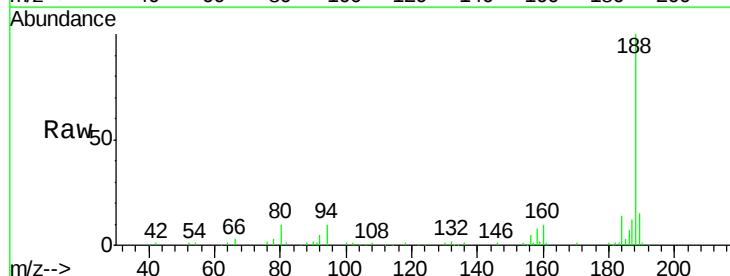


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

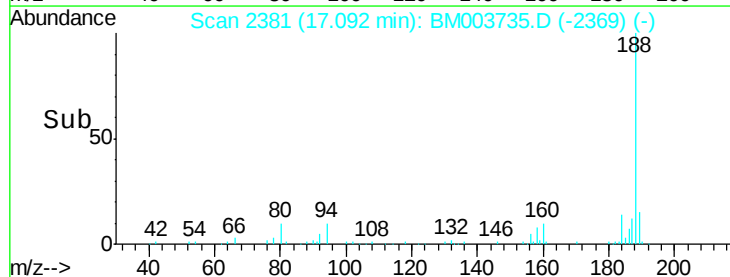
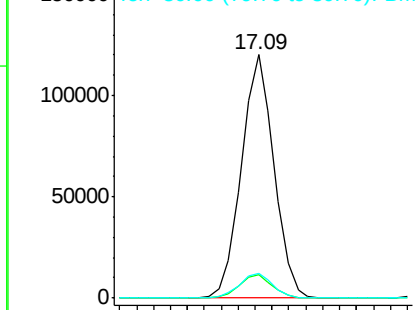


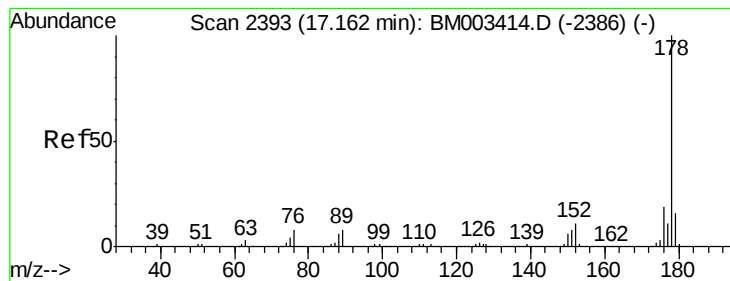
#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 17.09 min Scan# 2381  
 Delta R.T. -0.03 min  
 Lab File: BM003735.D  
 Acq: 23 Dec 2015 07:31

Tgt Ion:188 Resp: 160896  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 8.7 13.1  
 80 10.2 9.3 13.9



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BM0  
 Ion 80.00 (79.70 to 80.70): BM0





#70

Phenanthrene

Concen: 7.57 ng

RT: 17.13 min Scan# 2388

Delta R.T. -0.03 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

Instrument :

BNA\_M

ClientSampleId :

LTCWC-05

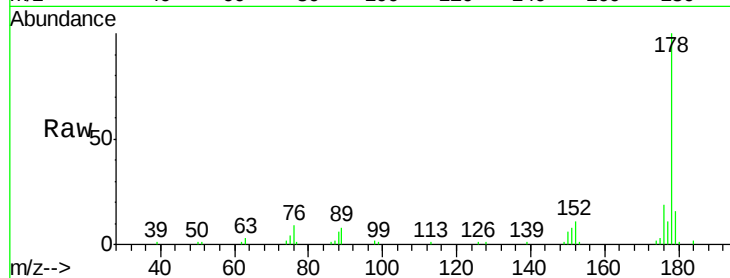
Tot Ion:178 Resp: 68337

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

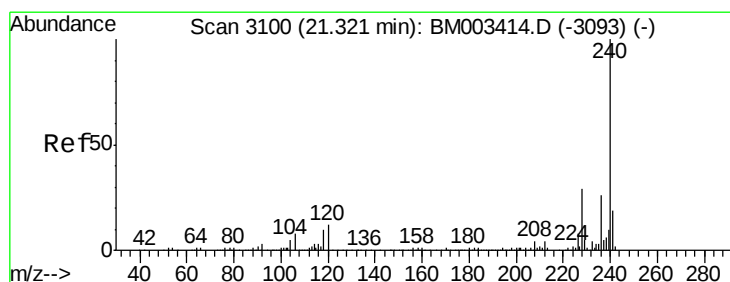
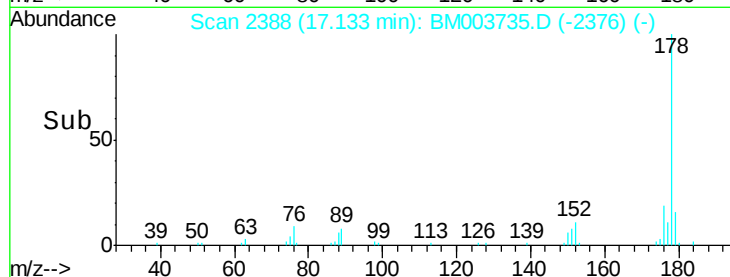
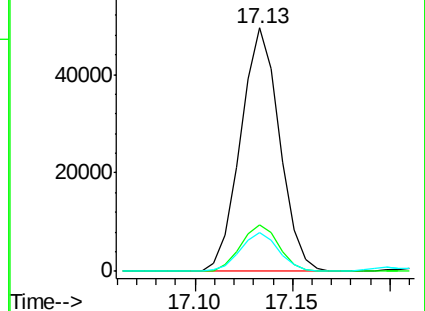
179 16.0 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.29 min Scan# 3095

Delta R.T. -0.03 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

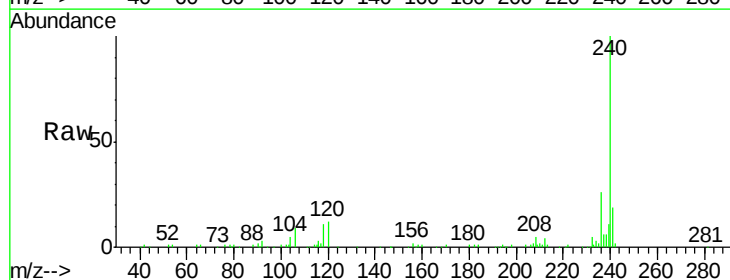
Tgt Ion:240 Resp: 179731

Ion Ratio Lower Upper

240 100

120 12.2 8.2 12.2

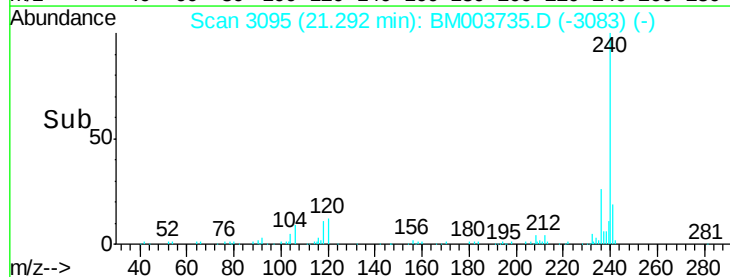
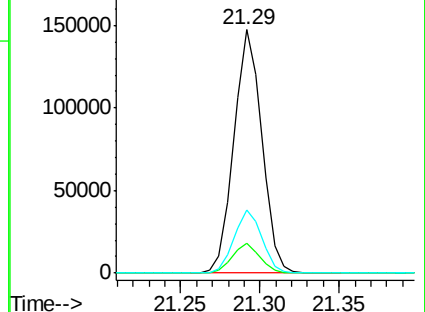
236 25.7 20.0 30.0

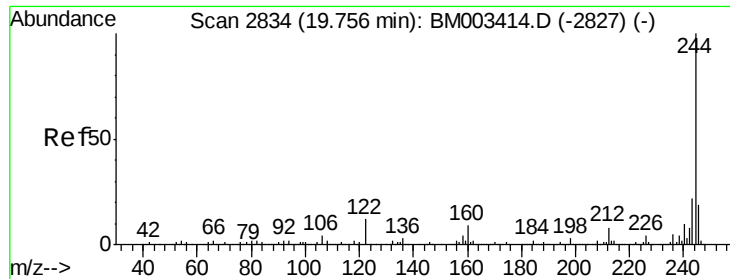


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 90.61 ng

RT: 19.73 min Scan# 2830

Delta R.T. -0.02 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

Instrument :

BNA\_M

ClientSampleId :

LTCWC-05

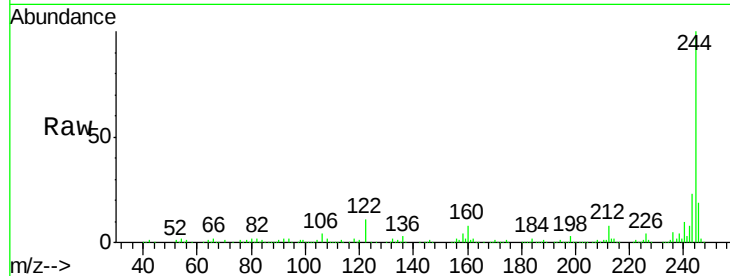
Tot Ion:244 Resp: 690584

Ion Ratio Lower Upper

244 100

212 7.7 4.9 7.3#

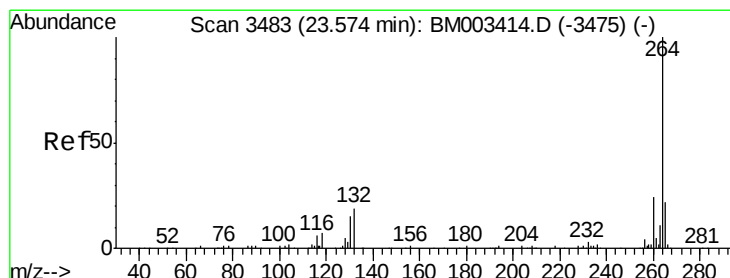
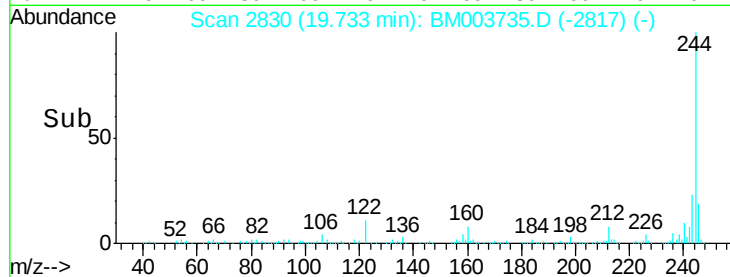
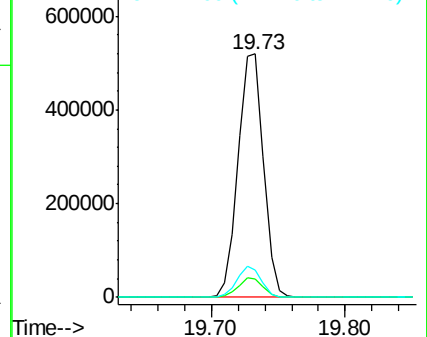
122 11.4 6.2 9.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.53 min Scan# 3476

Delta R.T. -0.04 min

Lab File: BM003735.D

Acq: 23 Dec 2015 07:31

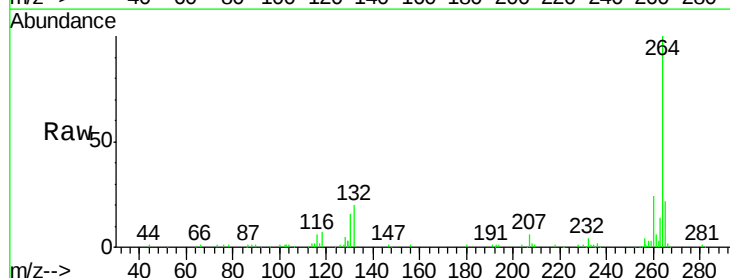
Tgt Ion:264 Resp: 182509

Ion Ratio Lower Upper

264 100

260 24.0 18.6 27.8

265 21.6 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

