

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\  
 Data File : BF097616.D  
 Acq On : 12 Aug 2017 2:47  
 Operator : SJ/JU  
 Sample : I4631-07  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VE-3-1

Quant Time: Aug 14 11:01:01 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 11 15:55:57 2017  
 Response via : Initial Calibration

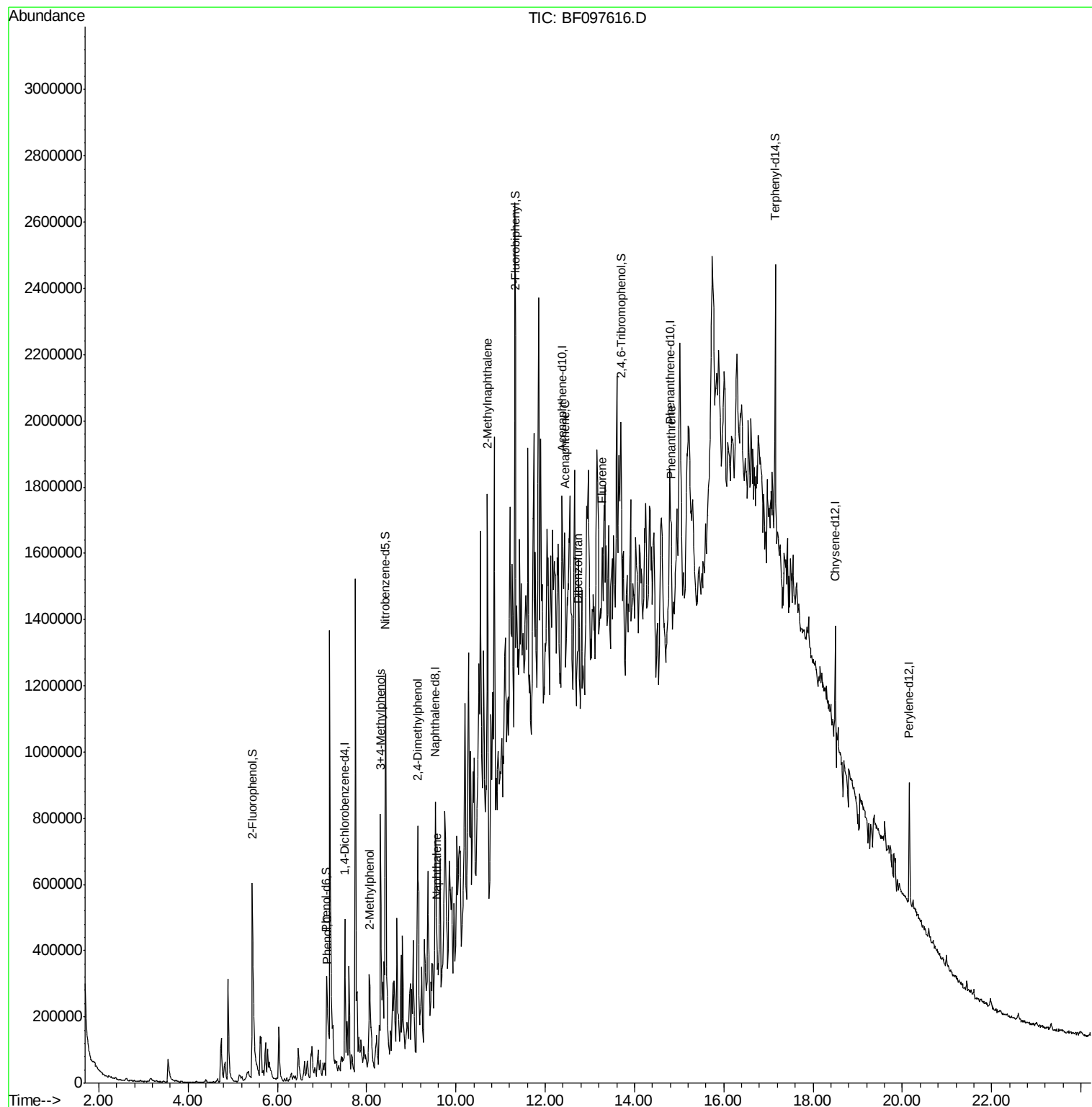
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.51  | 152  | 92213    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 9.54  | 136  | 327757   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 12.37 | 164  | 122387   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 14.79 | 188  | 148515   | 20.00  | ng    | 0.03     |
| 75) Chrysene-d12            | 18.50 | 240  | 179891   | 20.00  | ng    | 0.04     |
| 86) Perylene-d12            | 20.16 | 264  | 169156   | 20.00  | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 398452   | 68.68  | ng    | 0.04     |
| 7) Phenol-d6                | 7.10  | 99   | 277654   | 38.58  | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 8.43  | 82   | 476020   | 91.07  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 13.70 | 330  | 109443   | 117.63 | ng    | 0.04     |
| 44) 2-Fluorobiphenyl        | 11.33 | 172  | 675282   | 83.27  | ng    | 0.00     |
| 78) Terphenyl-d14           | 17.16 | 244  | 470033   | 54.08  | ng    | 0.04     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 7.13  | 94   | 46960    | 5.960  | ng    | 82       |
| 17) 2-Methylphenol          | 8.06  | 107  | 63902    | 12.398 | ng    | # 95     |
| 20) 3+4-Methylphenols       | 8.31  | 107  | 372388   | 58.993 | ng    | # 57     |
| 27) 2,4-Dimethylphenol      | 9.13  | 122  | 78230    | 16.282 | ng    | 98       |
| 31) Naphthalene             | 9.58  | 128  | 41420    | 2.523  | ng    | # 84     |
| 37) 2-Methylnaphthalene     | 10.71 | 142  | 339982   | 32.914 | ng    | 97       |
| 51) Acenaphthene            | 12.43 | 154  | 44121    | 5.744  | ng    | 94       |
| 54) Dibenzofuran            | 12.72 | 168  | 39799    | 3.701  | ng    | # 77     |
| 57) Fluorene                | 13.27 | 166  | 59638    | 6.744  | ng    | # 97     |
| 70) Phenanthrene            | 14.83 | 178  | 94747    | 11.077 | ng    | # 88     |

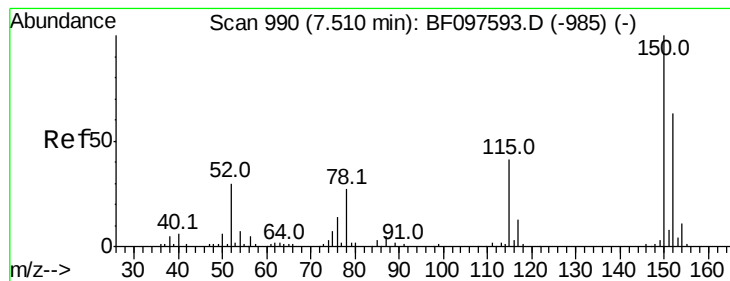
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.51 min Scan# 990

Delta R.T. -0.00 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampled :

VE-3-1

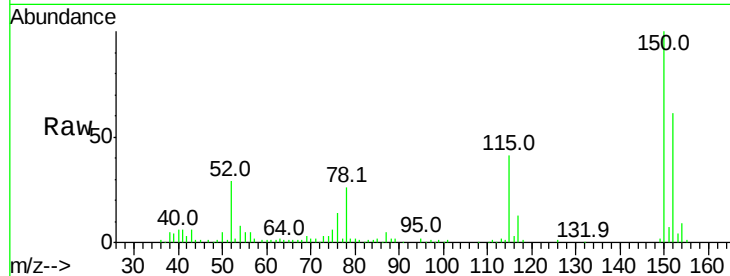
Tot Ion:152 Resp: 92213

Ion Ratio Lower Upper

152 100

150 162.6 126.2 189.2

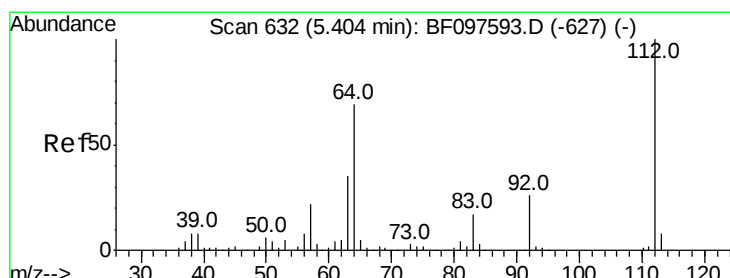
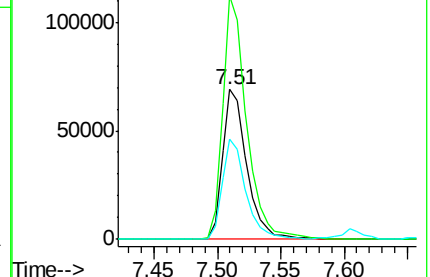
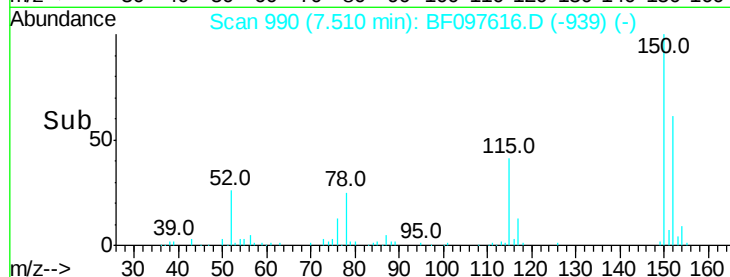
115 67.4 52.2 78.2



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: 68.682 ng

RT: 5.44 min Scan# 638

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

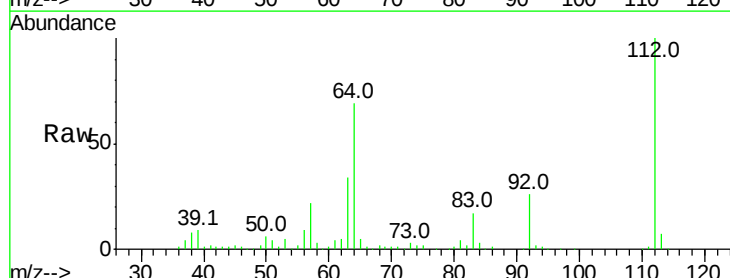
Tgt Ion:112 Resp: 398452

Ion Ratio Lower Upper

112 100

64 68.9 46.0 69.0

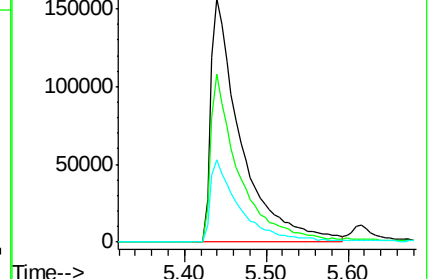
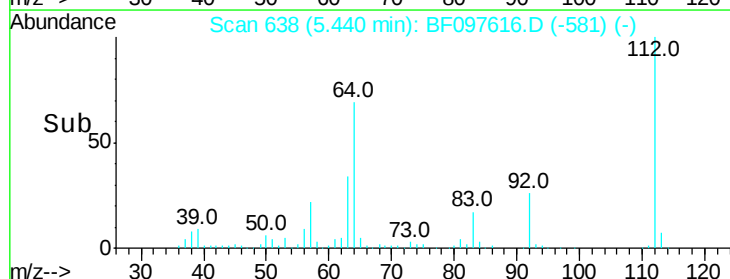
63 33.6 23.4 35.0

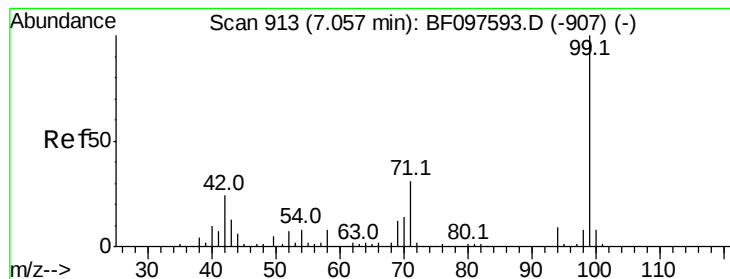


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 38.581 ng

RT: 7.10 min Scan# 920

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

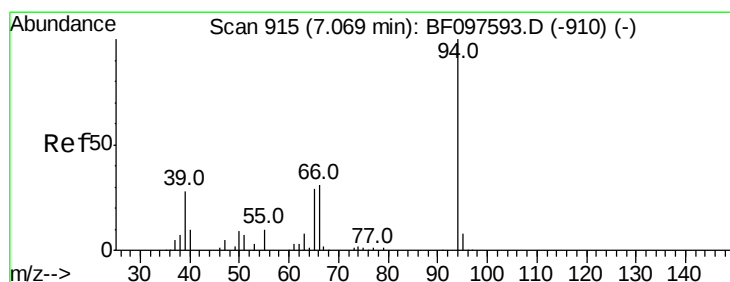
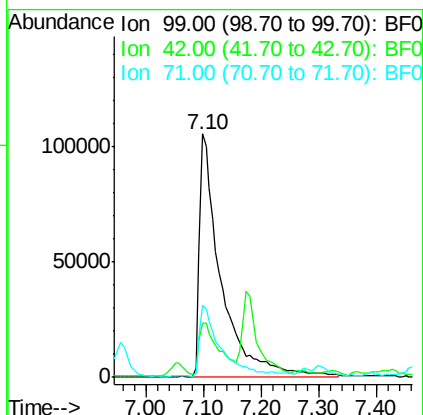
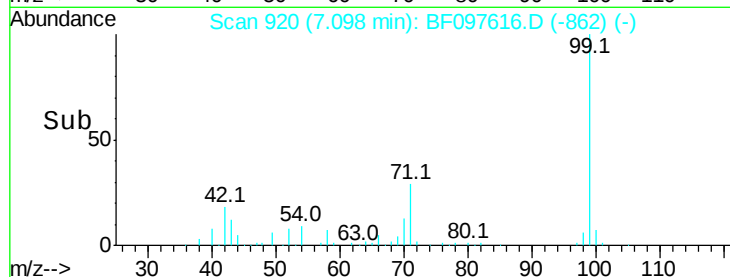
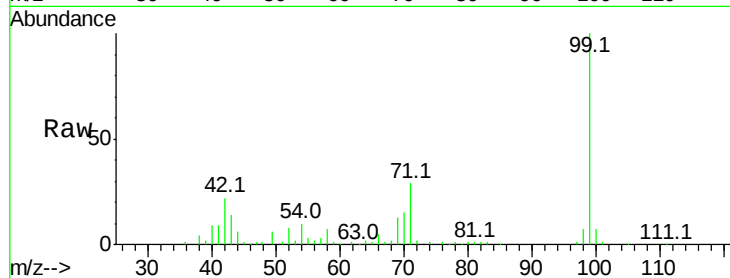
BNA\_F

ClientSampleId :

VE-3-1

Tot Ion: 99 Resp: 277654

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.1  | 13.5  | 20.3# |
| 71  | 29.5  | 24.5  | 36.7  |



#10

Phenol

Concen: 5.960 ng

RT: 7.13 min Scan# 925

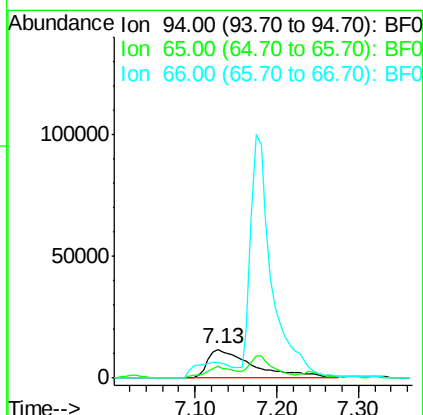
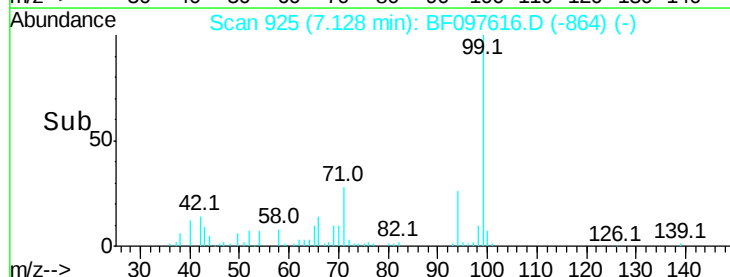
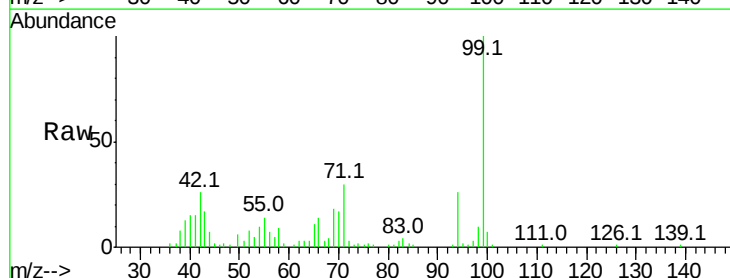
Delta R.T. 0.06 min

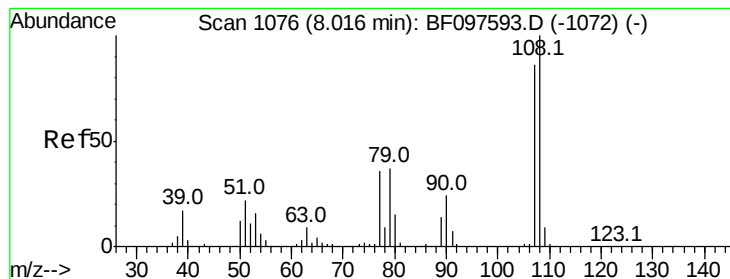
Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Tgt Ion: 94 Resp: 46960

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 42.0  | 9.9   | 49.9  |
| 66  | 53.2  | 23.1  | 63.1  |





#17

2-Methylphenol

Concen: 12.398 ng

RT: 8.06 min Scan# 1084

Delta R.T. 0.05 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampleId :

VE-3-1

Tot Ion:107 Resp: 63902

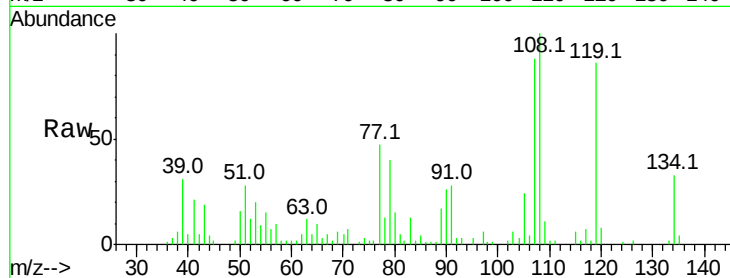
Ion Ratio Lower Upper

107 100

108 113.2 93.4 140.0

77 53.7 35.8 53.6#

79 45.0 34.8 52.2

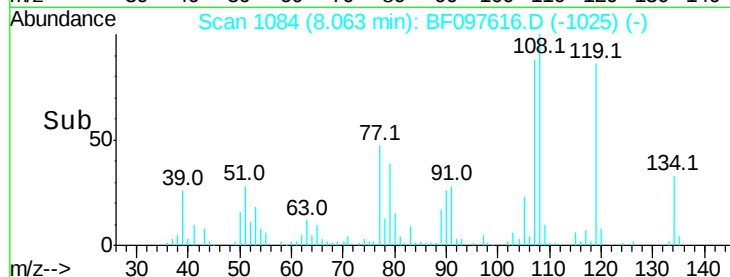


Abundance Ion 107.00 (106.70 to 107.70): E

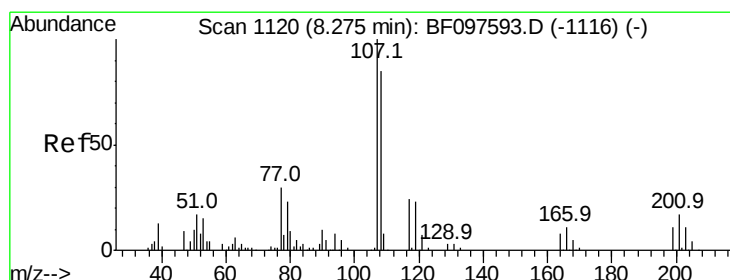
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



Time-->



#20

3+4-Methylphenols

Concen: 58.993 ng

RT: 8.31 min Scan# 1126

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Tgt Ion:107 Resp: 372388

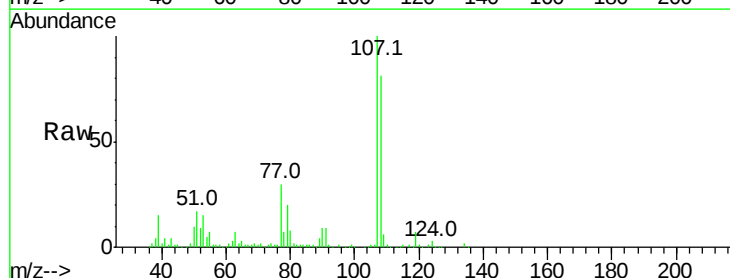
Ion Ratio Lower Upper

107 100

108 81.0 71.0 111.0

77 29.9 90.5 130.5#

79 20.3 8.4 48.4

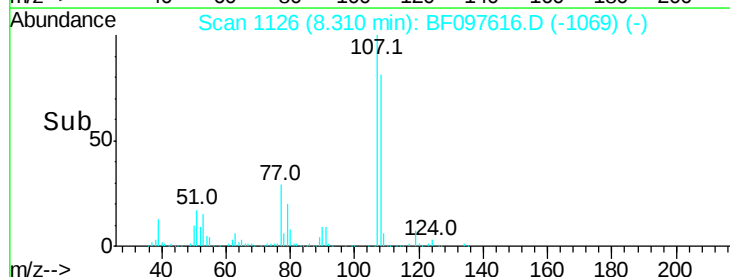


Abundance Ion 107.00 (106.70 to 107.70): E

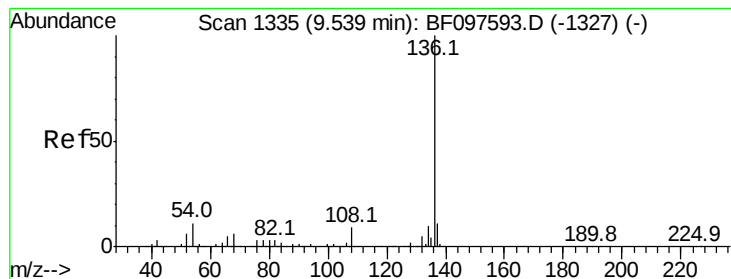
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 9.54 min Scan# 1335

Delta R.T. -0.00 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

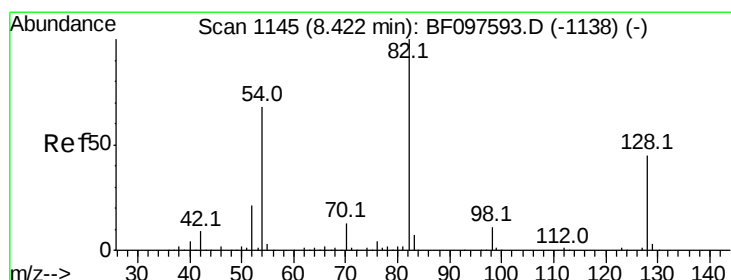
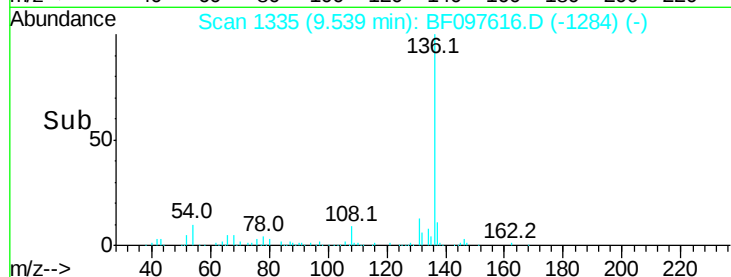
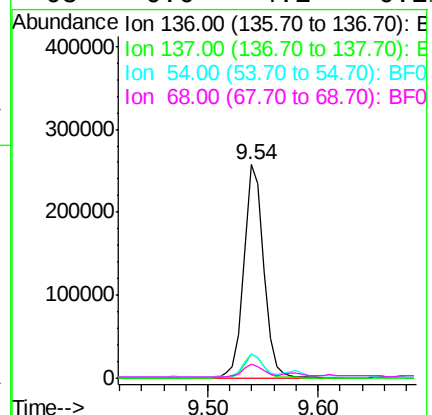
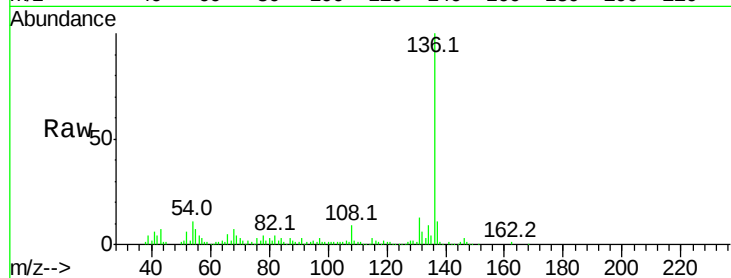
Instrument :

BNA\_F

ClientSampleId :

VE-3-1

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 327757   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.2  | 8.5 12.7 |
| 54          | 11.3  | 4.9 7.3# |
| 68          | 6.6   | 4.1 6.1# |



#23

Nitrobenzene-d5

Concen: 91.069 ng

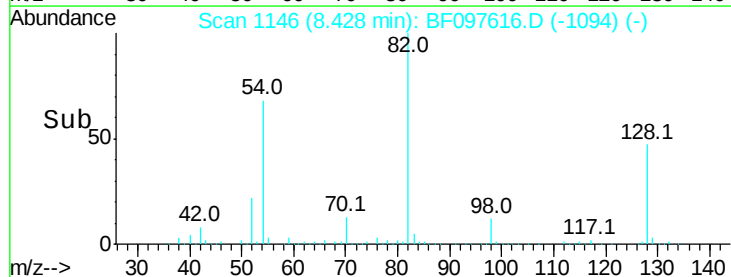
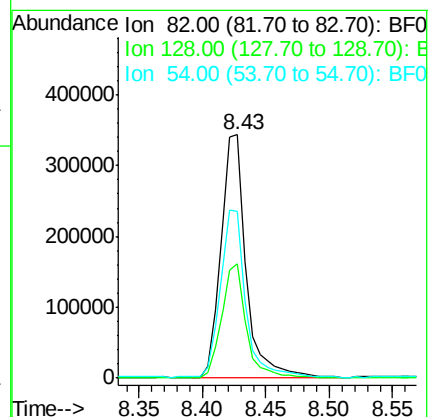
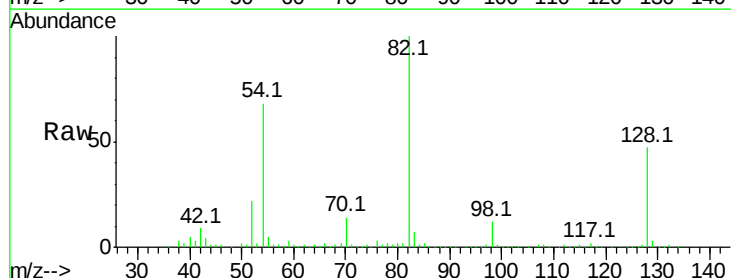
RT: 8.43 min Scan# 1146

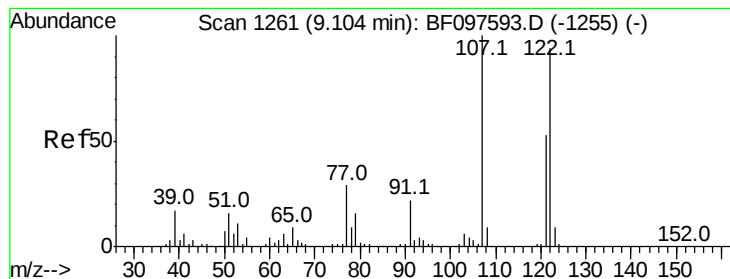
Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 476020     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 46.9  | 34.0 51.0  |
| 54          | 68.5  | 42.2 63.2# |





#27

2,4-Dimethylphenol

Concen: 16.282 ng

RT: 9.13 min Scan# 1266

Delta R.T. 0.03 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampled :

VE-3-1

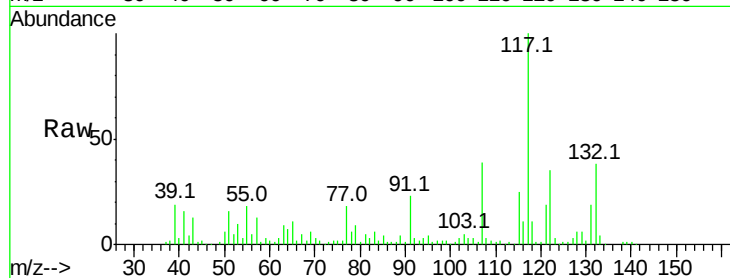
Tot Ion:122 Resp: 78230

Ion Ratio Lower Upper

122 100

107 112.4 89.2 133.8

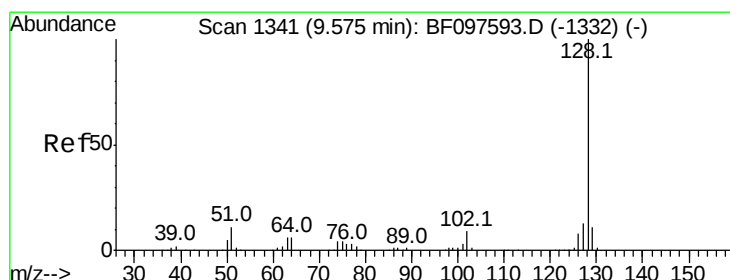
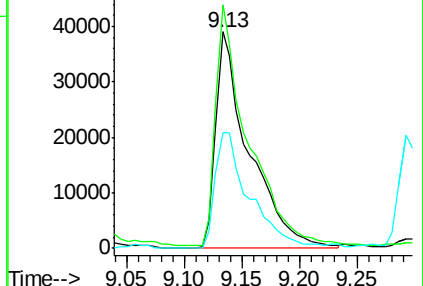
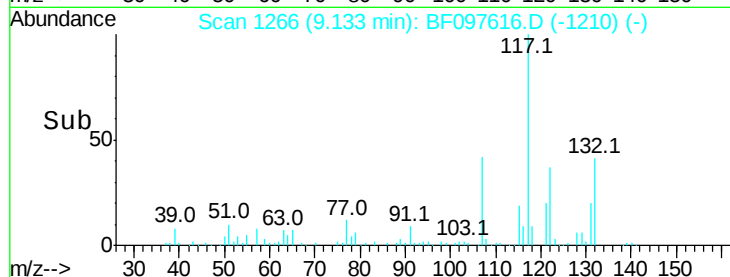
121 53.6 45.2 67.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31

Naphthalene

Concen: 2.523 ng

RT: 9.58 min Scan# 1342

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

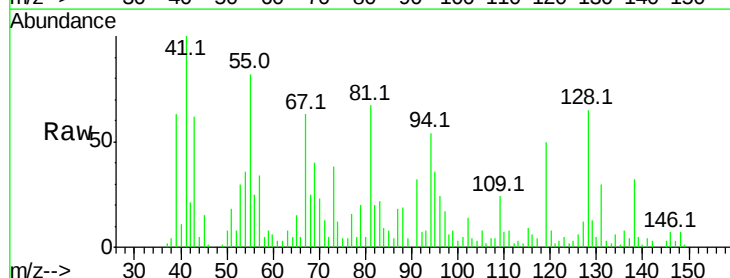
Tgt Ion:128 Resp: 41420

Ion Ratio Lower Upper

128 100

129 20.1 9.0 13.6#

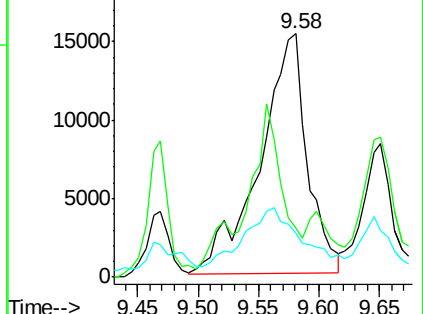
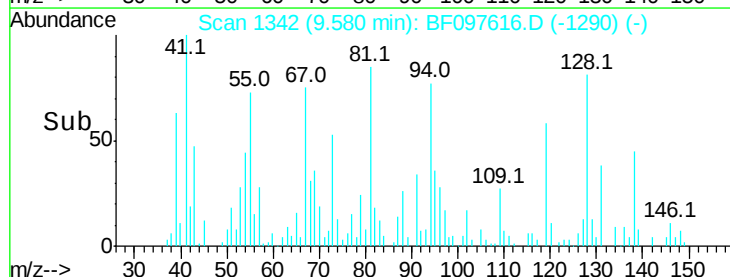
127 17.8 10.8 16.2#

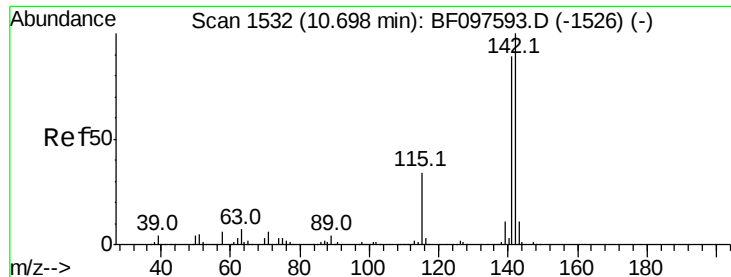


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

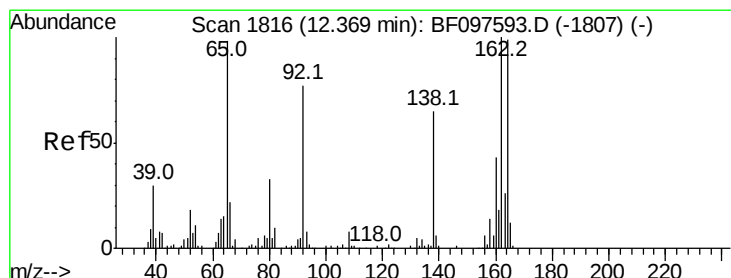
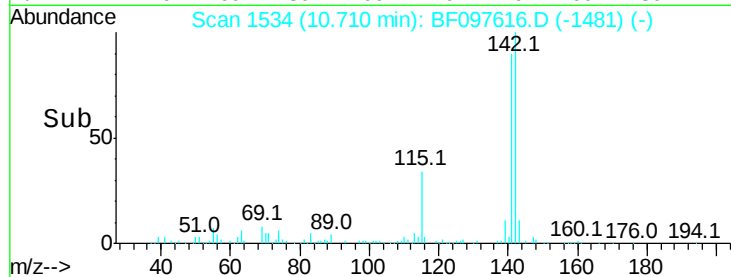
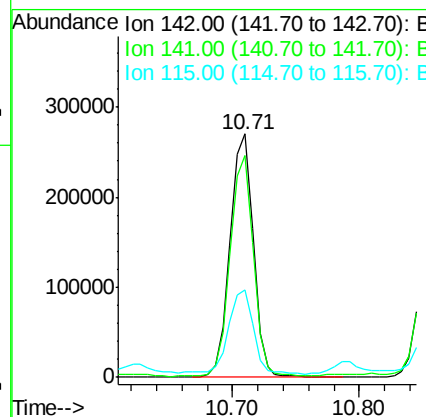
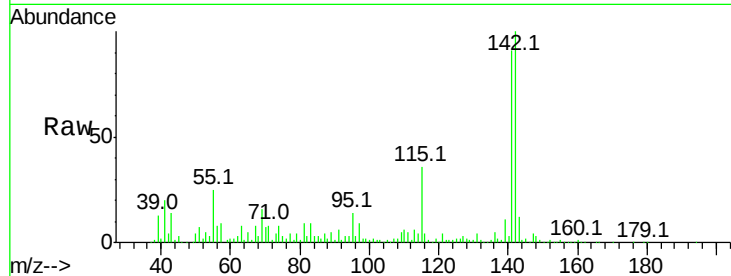




#37  
2-Methylnaphthalene  
Concen: 32.914 ng  
RT: 10.71 min Scan# 1534  
Delta R.T. 0.01 min  
Lab File: BF097616.D  
Acq: 12 Aug 2017 2:47

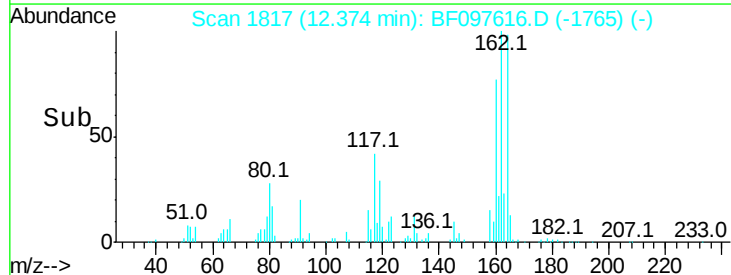
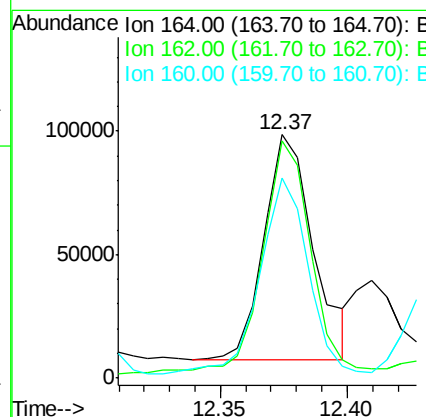
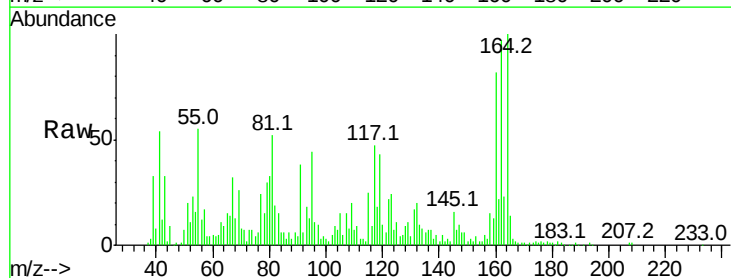
Instrument :  
BNA\_F  
ClientSampleId :  
VE-3-1

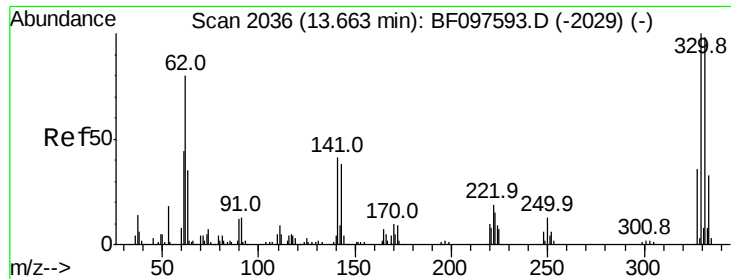
Tot Ion:142 Resp: 339982  
Ion Ratio Lower Upper  
142 100  
141 91.3 71.3 106.9  
115 35.7 27.1 40.7



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 12.37 min Scan# 1817  
Delta R.T. 0.01 min  
Lab File: BF097616.D  
Acq: 12 Aug 2017 2:47

Tgt Ion:164 Resp: 122387  
Ion Ratio Lower Upper  
164 100  
162 97.3 82.6 123.8  
160 82.0 36.2 54.2#

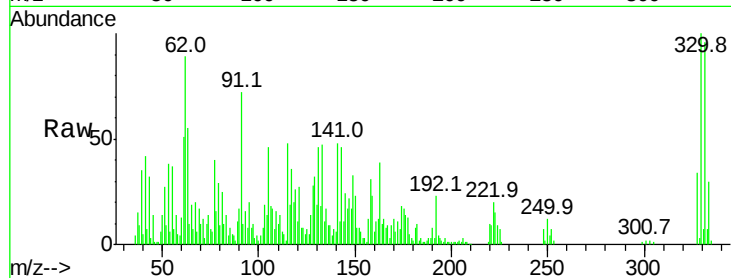




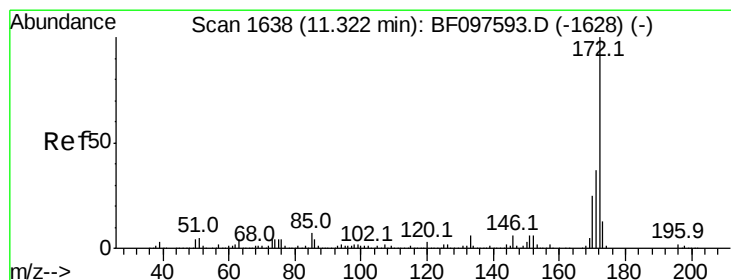
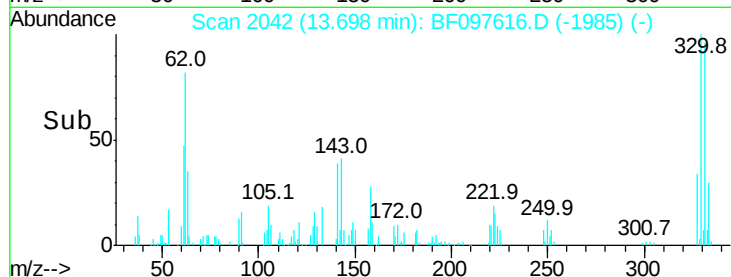
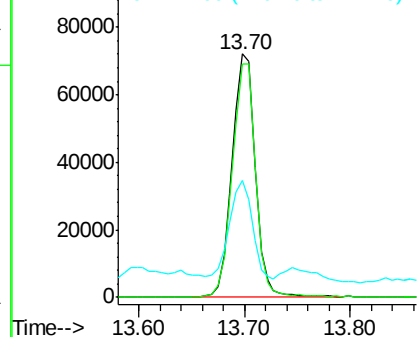
#41  
 2,4,6-Tribromophenol  
 Concen: 117.634 ng  
 RT: 13.70 min Scan# 2042  
 Delta R.T. 0.04 min  
 Lab File: BF097616.D  
 Acq: 12 Aug 2017 2:47

Instrument :  
 BNA\_F  
 ClientSampleID :  
 VE-3-1

Tot Ion:330 Resp: 109443  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 76.6 115.0  
 141 39.0 31.4 47.2

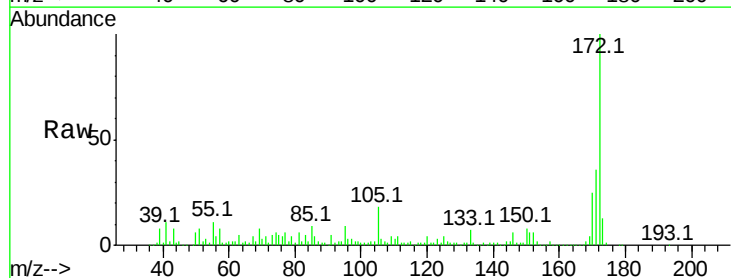


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

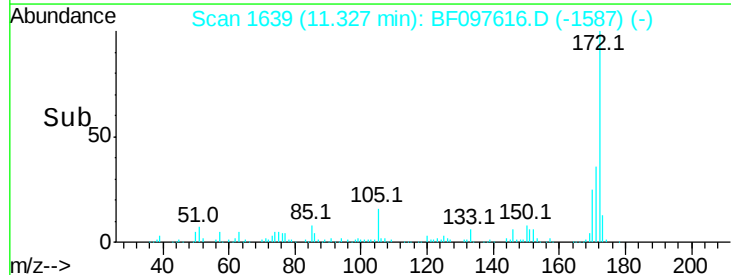
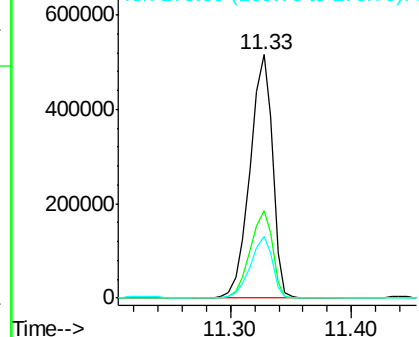


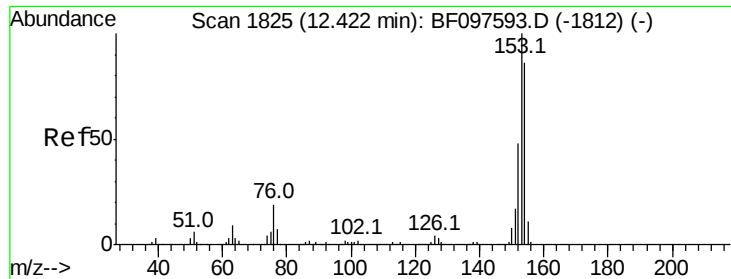
#44  
 2-Fluorobiphenyl  
 Concen: 83.271 ng  
 RT: 11.33 min Scan# 1639  
 Delta R.T. 0.01 min  
 Lab File: BF097616.D  
 Acq: 12 Aug 2017 2:47

Tgt Ion:172 Resp: 675282  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 25.3 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 5.744 ng

RT: 12.43 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampleId :

VE-3-1

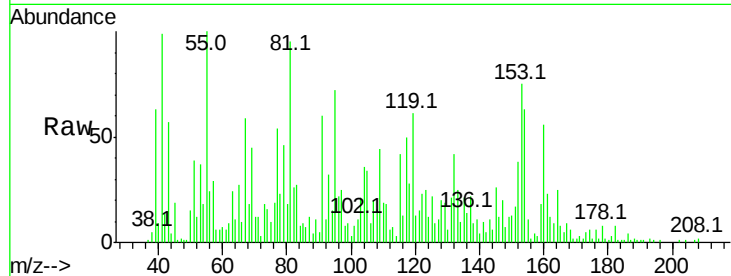
Tot Ion:154 Resp: 44121

Ion Ratio Lower Upper

154 100

153 118.3 90.5 135.7

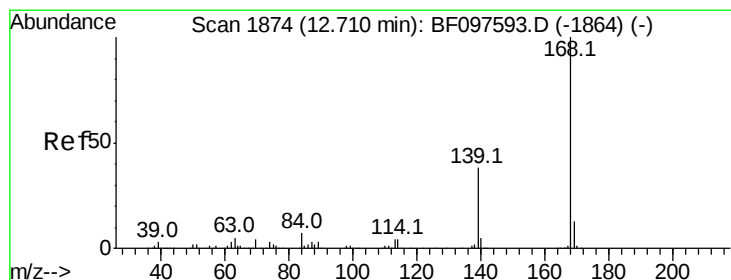
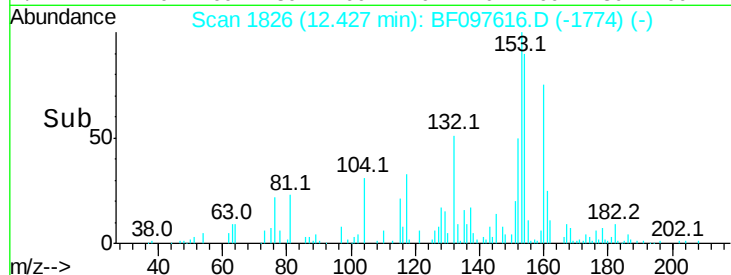
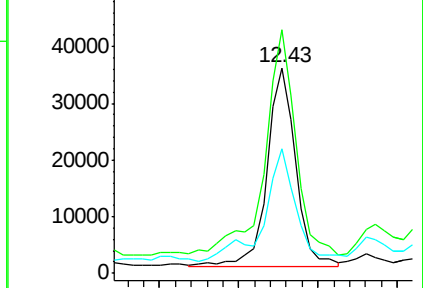
152 60.5 43.6 65.4



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: 3.701 ng

RT: 12.72 min Scan# 1876

Delta R.T. 0.01 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

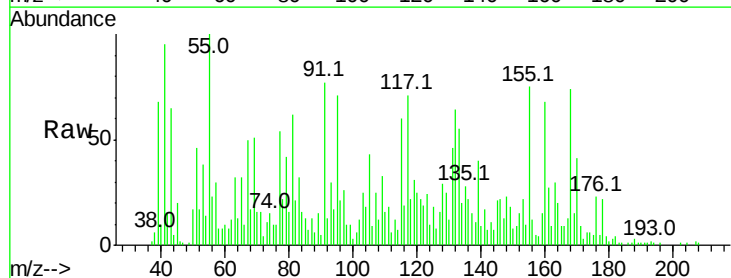
Tgt Ion:168 Resp: 39799

Ion Ratio Lower Upper

168 100

139 53.2 30.6 45.8#

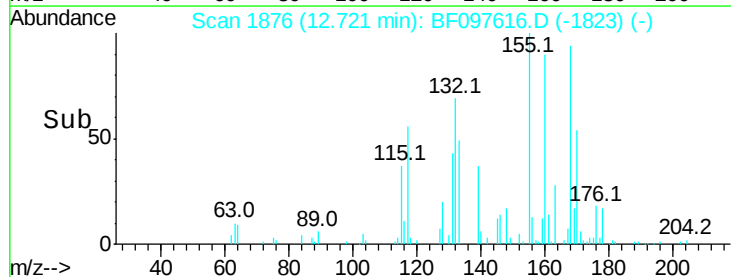
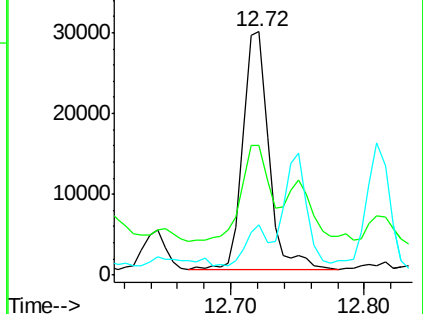
169 20.7 10.8 16.2#

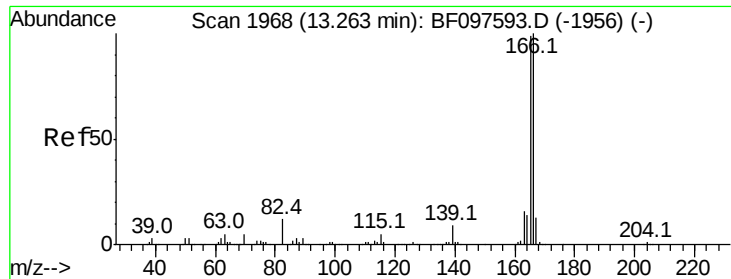


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

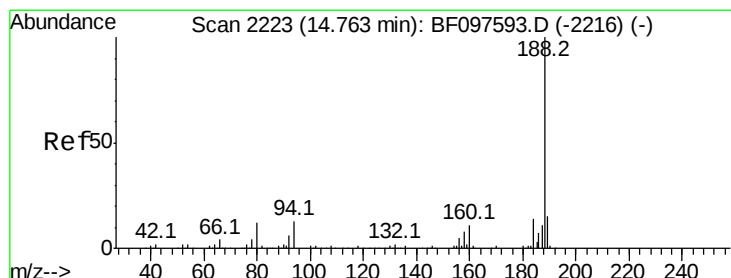
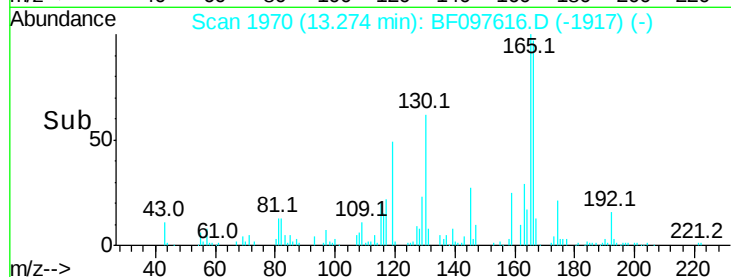
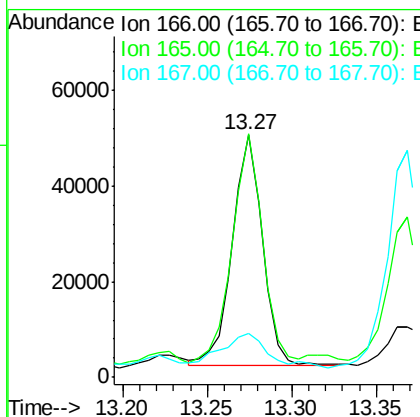
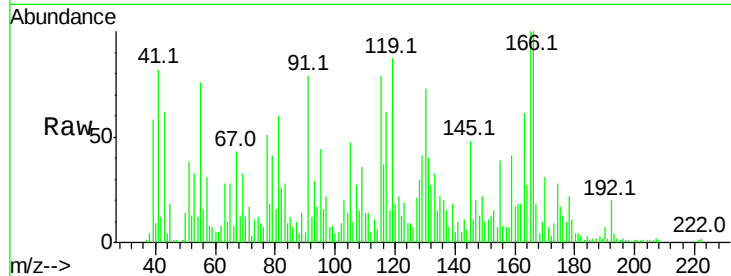




#57  
 Fluorene  
 Concen: 6.744 ng  
 RT: 13.27 min Scan# 1970  
 Delta R.T. 0.01 min  
 Lab File: BF097616.D  
 Acq: 12 Aug 2017 2:47

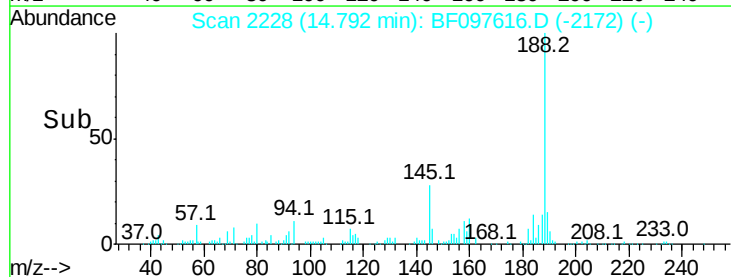
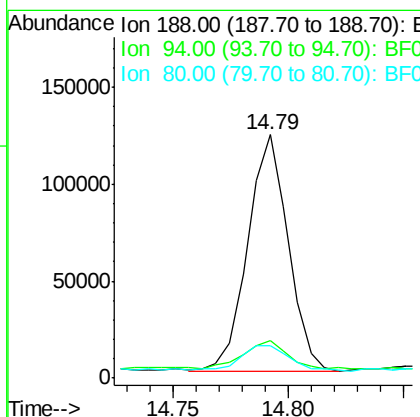
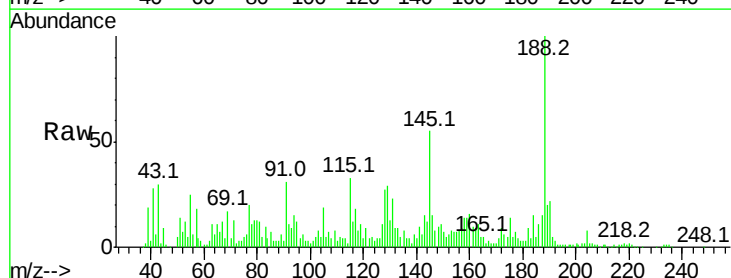
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VE-3-1

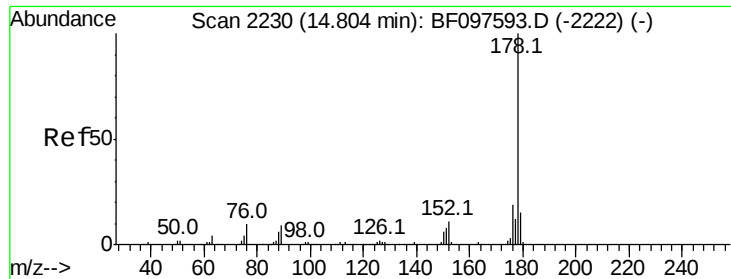
Tot Ion:166 Resp: 59638  
 Ion Ratio Lower Upper  
 166 100  
 165 100.4 78.8 118.2  
 167 18.0 10.6 16.0#



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 14.79 min Scan# 2228  
 Delta R.T. 0.03 min  
 Lab File: BF097616.D  
 Acq: 12 Aug 2017 2:47

Tgt Ion:188 Resp: 148515  
 Ion Ratio Lower Upper  
 188 100  
 94 15.2 9.4 14.2#  
 80 13.3 10.2 15.2





#70

Phenanthrene

Concen: 11.077 ng

RT: 14.83 min Scan# 2234

Delta R.T. 0.02 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampled :

VE-3-1

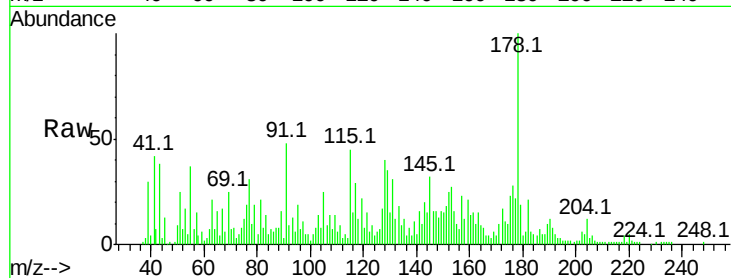
Tot Ion:178 Resp: 94747

Ion Ratio Lower Upper

178 100

176 28.0 16.2 24.4#

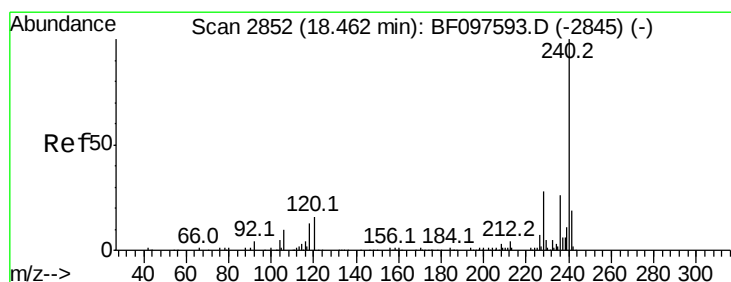
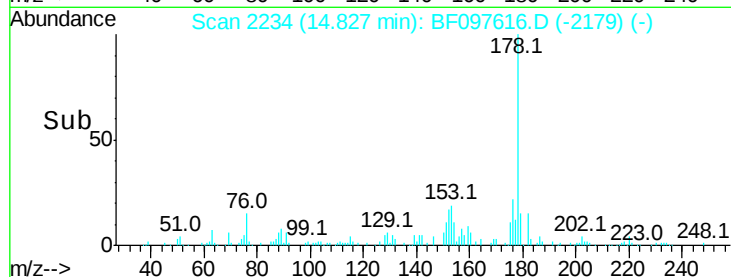
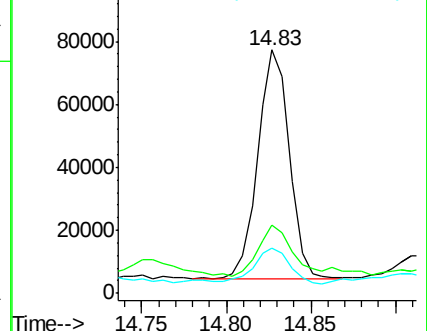
179 18.7 12.6 19.0



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: 20.000 ng

RT: 18.50 min Scan# 2858

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

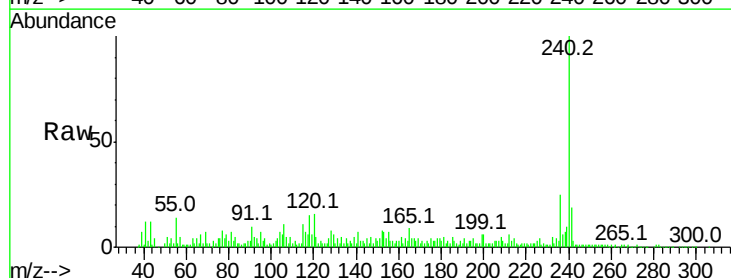
Tgt Ion:240 Resp: 179891

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

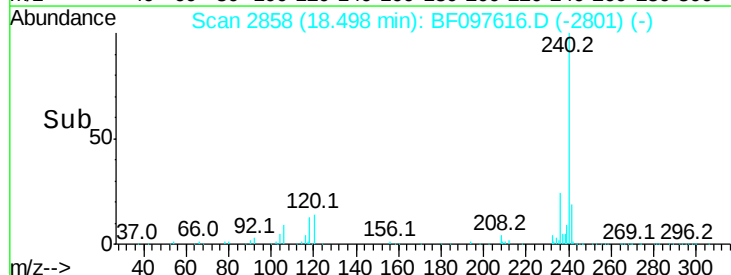
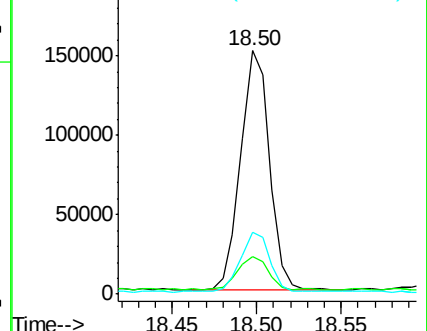
236 25.2 20.5 30.7

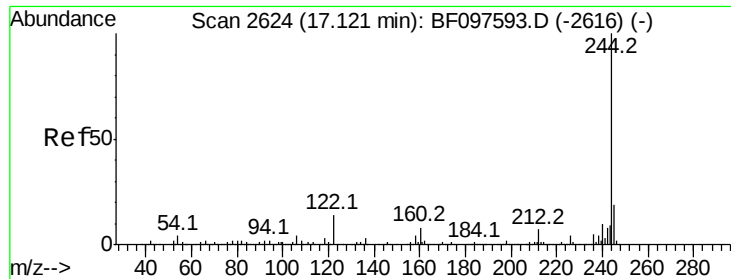


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 54.078 ng

RT: 17.16 min Scan# 2630

Delta R.T. 0.04 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

Instrument :

BNA\_F

ClientSampleId :

VE-3-1

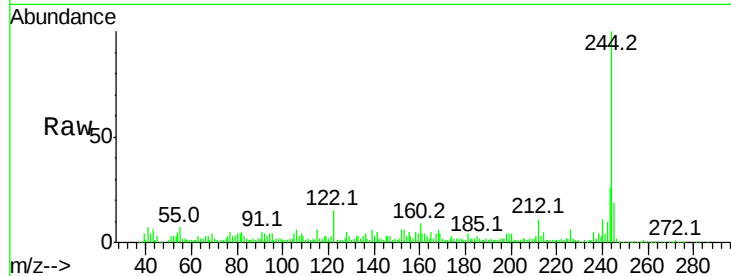
Tot Ion:244 Resp: 470033

Ion Ratio Lower Upper

244 100

212 10.6 6.0 9.0#

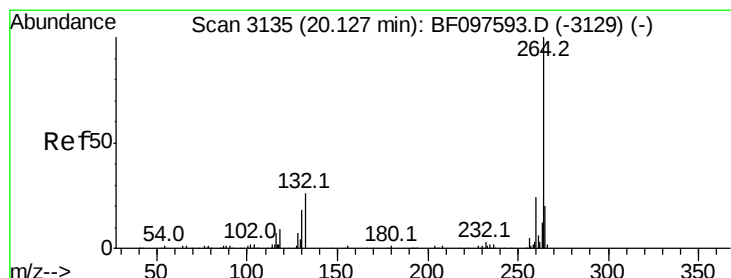
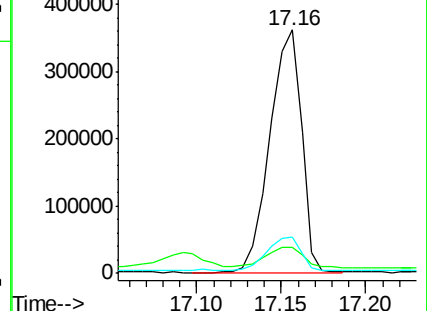
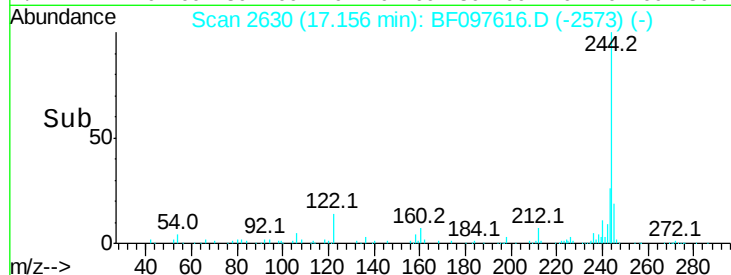
122 15.0 10.3 15.5



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: 20.000 ng

RT: 20.16 min Scan# 3140

Delta R.T. 0.03 min

Lab File: BF097616.D

Acq: 12 Aug 2017 2:47

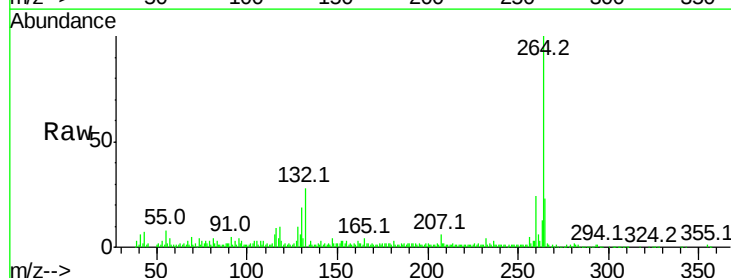
Tgt Ion:264 Resp: 169156

Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

265 22.9 17.2 25.8



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

