

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\  
 Data File : BM022370.D  
 Acq On : 27 Aug 2019 17:12  
 Operator : HP/JU  
 Sample : K4373-11DL2 100X  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB2DL2

Manual Integrations  
 APPROVED

mohammad  
 8/28/2019 11:32:34 PM

Quant Time: Aug 28 02:45:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 27 17:04:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 26692    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.31 | 136  | 124098   | 20.00 | ng/ul | -0.02    |
| 35) Acenaphthene-d10      | 14.20 | 164  | 88703    | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 16.96 | 188  | 205429   | 20.00 | ng/ul | -0.01    |
| 77) Chrysene-d12          | 21.17 | 240  | 165906   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.37 | 264  | 171418   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |      |      |       |      |
|--------------------------------|-------|-----|------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0    | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 0.00  | 99  | 0    | 0.00 | ng/ul |      |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0    | 0.00 | ng/ul |      |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0    | 0.00 | ng/ul |      |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0    | 0.00 | ng/ul |      |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0    | 0.00 | ng/ul |      |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00 | ng/ul |      |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0    | 0.00 | ng/ul |      |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0    | 0.00 | ng/ul |      |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 2089 | 0.27 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.89 | 160 | 2083 | 0.25 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.20 | 176 | 2157 | 0.33 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0    | 0.00 | ng/ul |      |
| 70) Anthracene-d10             | 17.07 | 188 | 4895 | 0.45 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.37 | 212 | 3754 | 0.44 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.23 | 264 | 2685 | 0.29 | ng/ul | 0.00 |

## Target Compounds

|                         |       |     |        | Ovalue |       |
|-------------------------|-------|-----|--------|--------|-------|
| 24) 2,4-Dimethylphenol  | 9.54  | 107 | 5801m  | 2.091  | ng/ul |
| 28) Naphthalene         | 10.36 | 128 | 246758 | 36.031 | ng/ul |
| 34) 2-Methylnaphthalene | 11.99 | 142 | 10191  | 1.931  | ng/ul |
| 49) Acenaphthene        | 14.26 | 153 | 40140  | 6.480  | ng/ul |
| 53) Dibenzofuran        | 14.61 | 168 | 29268  | 3.172  | ng/ul |
| 58) Fluorene            | 15.26 | 166 | 20437  | 2.630  | ng/ul |
| 69) Phenanthrene        | 17.01 | 178 | 32050  | 2.608  | ng/ul |
| 74) Carbazole           | 17.39 | 167 | 26040  | 2.254  | ng/ul |

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

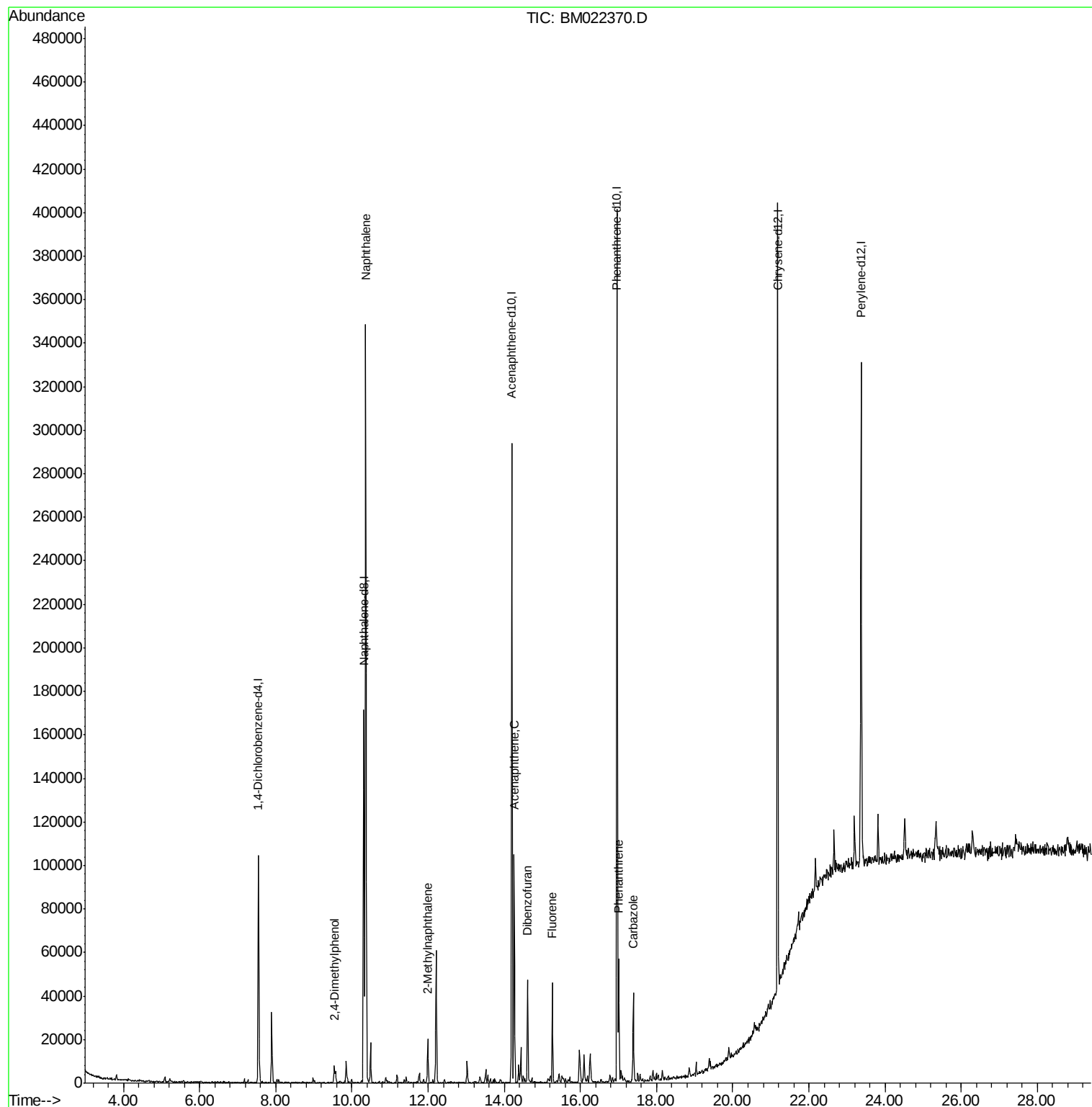
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\  
Data File : BM022370.D  
Acq On : 27 Aug 2019 17:12  
Operator : HP/JU  
Sample : K4373-11DL2 100X  
Misc :  
ALS Vial : 48 Sample Multiplier: 1

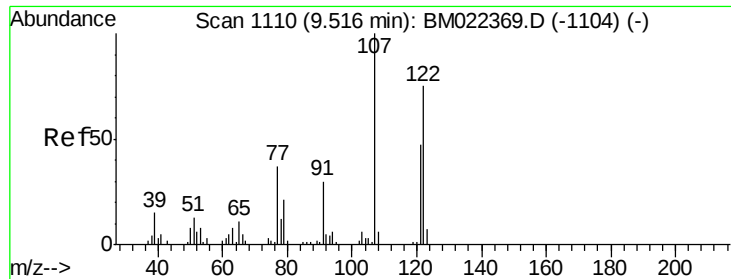
Instrument :  
BNA\_M  
ClientSampleId :  
C0AB2DL2

Quant Time: Aug 28 02:45:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 27 17:04:34 2019  
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#24

2,4-Dimethylphenol

Concen: 2.091 ng/ul m

RT: 9.54 min Scan# 1114

Delta R.T. 0.02 min

Lab File: BM022370.D

Acq: 27 Aug 2019 17:12

Instrument :

BNA\_M

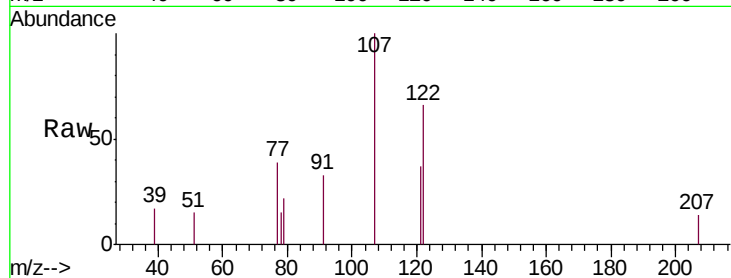
ClientSampleId :

C0AB2DL2

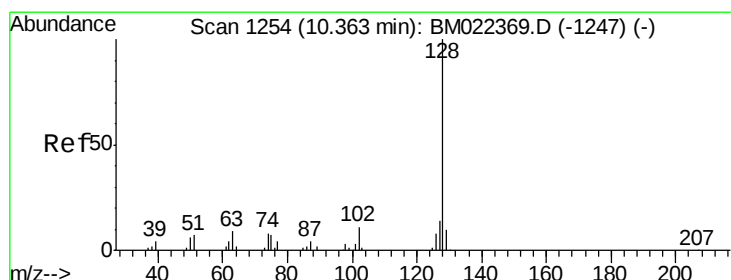
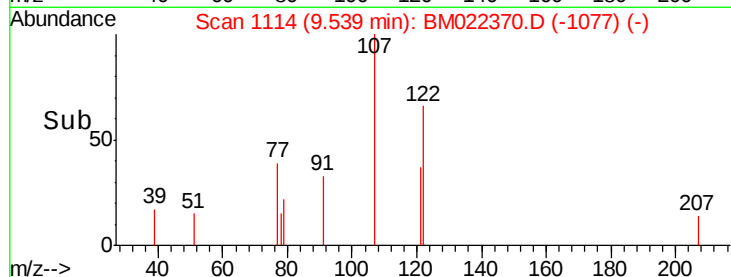
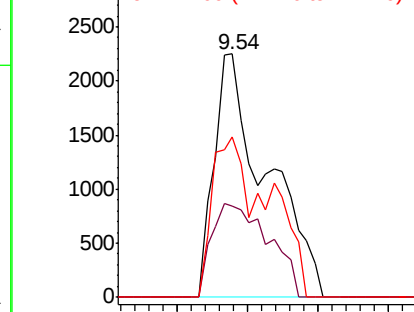
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 107   | Resp: | 5801 |
| Ion Ratio | Lower | Upper |      |
| 107       | 100   |       |      |
| 121       | 37.5  | 33.6  | 50.4 |
| 122       | 66.0  | 58.0  | 87.0 |

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Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E  
Ion 122.00 (121.70 to 122.70): E



#28

Naphthalene

Concen: 36.031 ng/ul

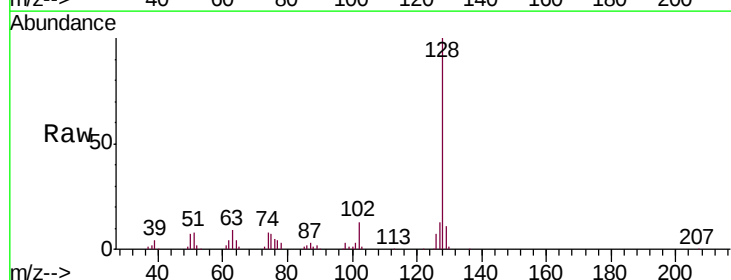
RT: 10.36 min Scan# 1254

Delta R.T. -0.01 min

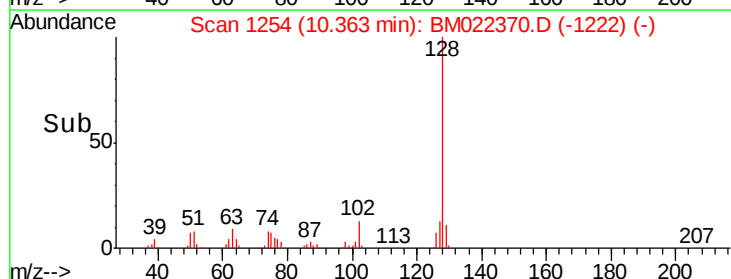
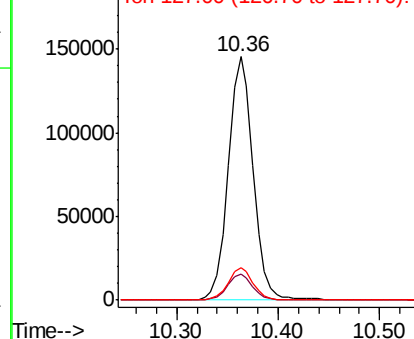
Lab File: BM022370.D

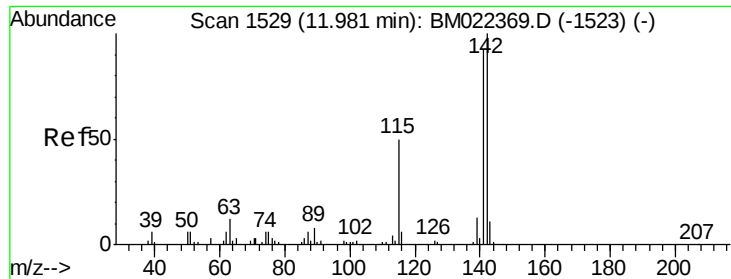
Acq: 27 Aug 2019 17:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 246758 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.8  | 8.6   | 13.0   |
| 127       | 13.2  | 10.4  | 15.6   |



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





#34

2-Methylnaphthalene

Concen: 1.931 ng/ul

RT: 11.99 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BM022370.D

Acq: 27 Aug 2019 17:12

Instrument :

BNA\_M

ClientSampled :

C0AB2DL2

Tot Ion:142 Resp: 10191

Ion Ratio Lower Upper

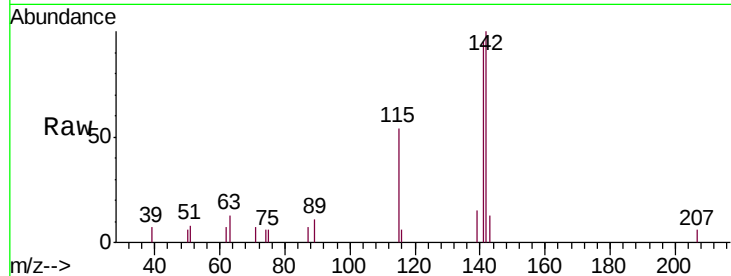
142 100

141 94.8 75.1 112.7

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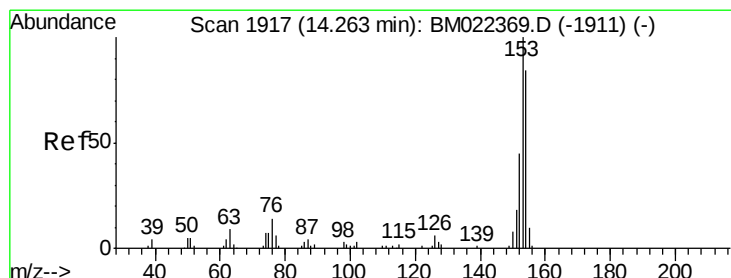
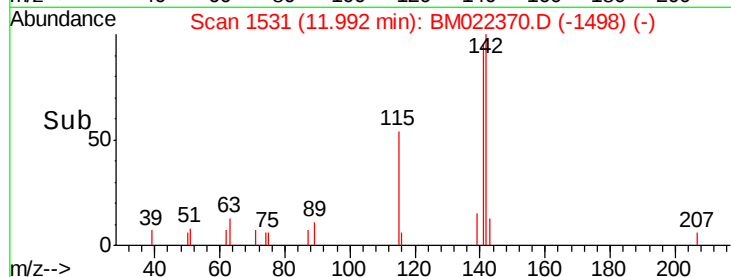
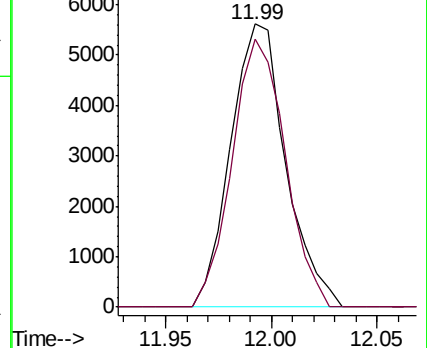
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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#49

Acenaphthene

Concen: 6.480 ng/ul

RT: 14.26 min Scan# 1917

Delta R.T. -0.01 min

Lab File: BM022370.D

Acq: 27 Aug 2019 17:12

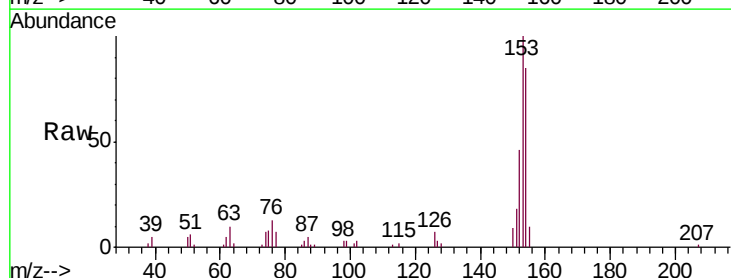
Tgt Ion:153 Resp: 40140

Ion Ratio Lower Upper

153 100

152 46.4 38.6 58.0

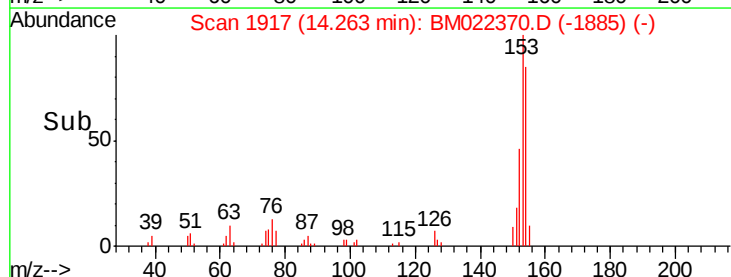
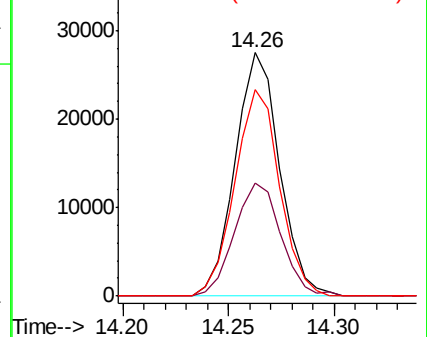
154 84.6 68.9 103.3

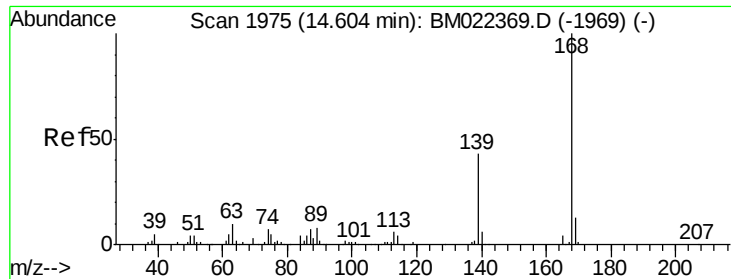


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





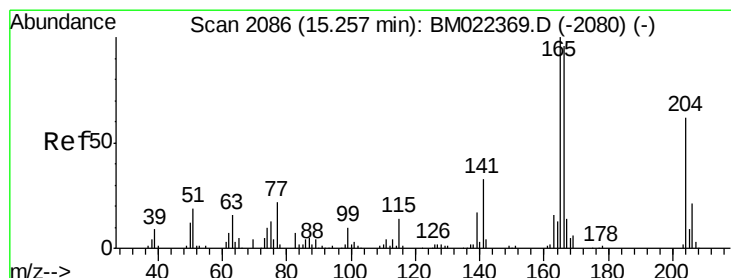
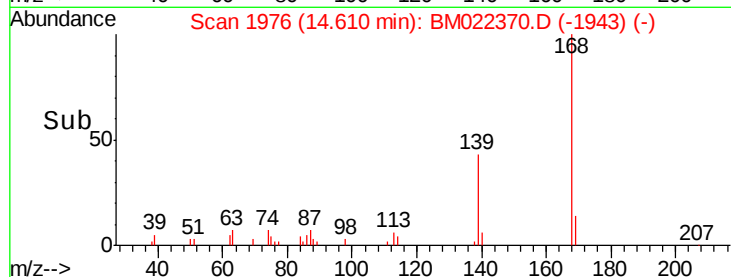
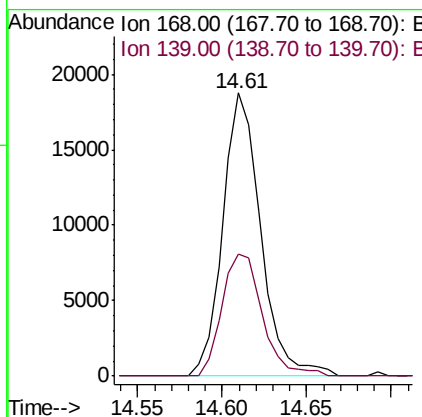
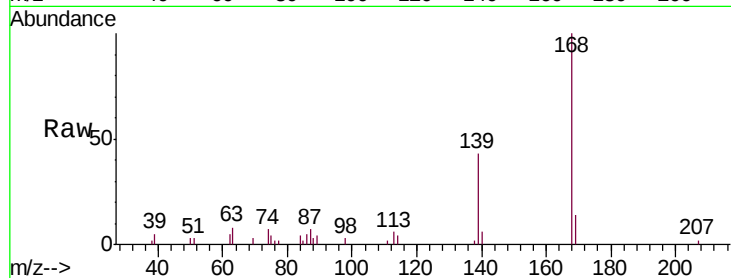
#53  
Dibenzofuran  
Concen: 3.172 ng/ul  
RT: 14.61 min Scan# 1976  
Delta R.T. -0.01 min  
Lab File: BM022370.D  
Acq: 27 Aug 2019 17:12

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB2DL2

Tot Ion:168 Resp: 29268  
Ion Ratio Lower Upper  
168 100  
139 43.3 36.2 54.4

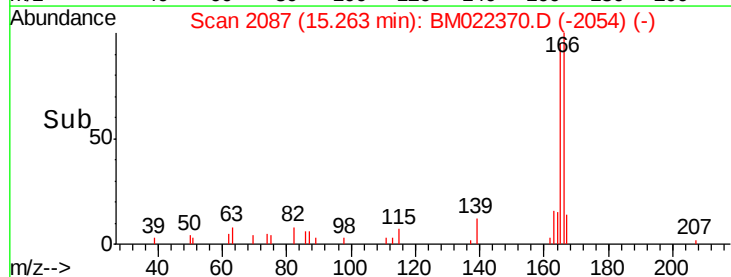
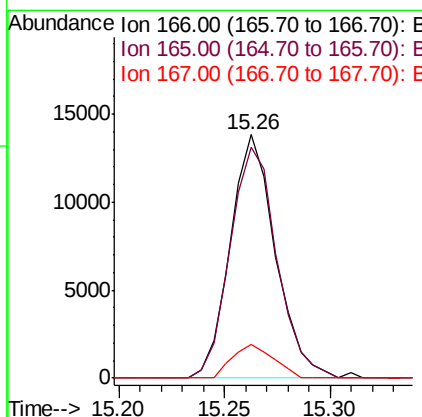
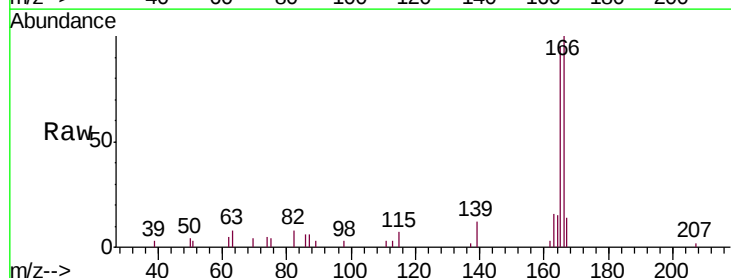
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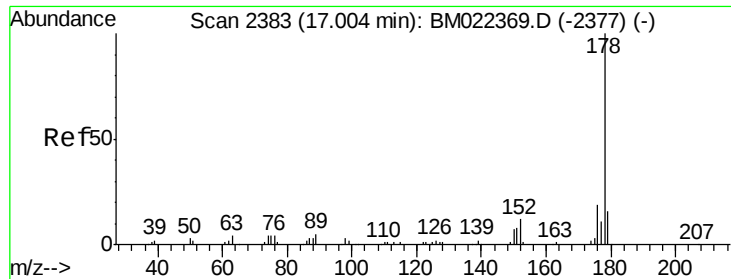
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#58  
Fluorene  
Concen: 2.630 ng/ul  
RT: 15.26 min Scan# 2087  
Delta R.T. -0.01 min  
Lab File: BM022370.D  
Acq: 27 Aug 2019 17:12

Tgt Ion:166 Resp: 20437  
Ion Ratio Lower Upper  
166 100  
165 94.6 80.2 120.2  
167 13.9 11.4 17.0





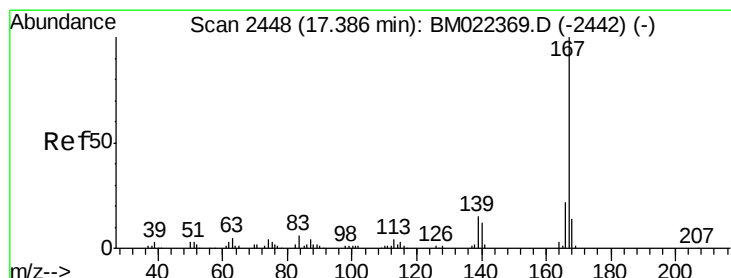
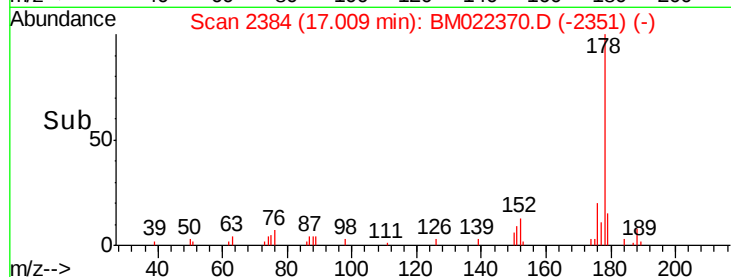
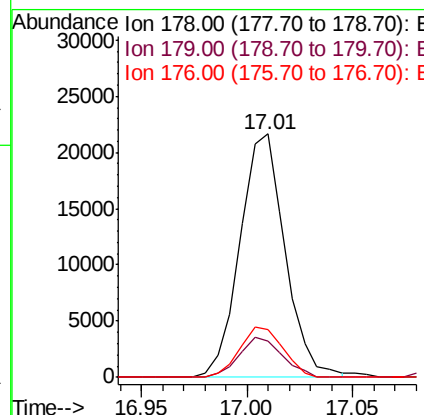
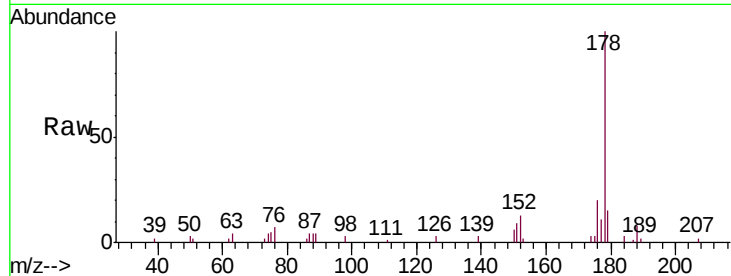
#69  
Phenanthrene  
Concen: 2.608 ng/ul  
RT: 17.01 min Scan# 2384  
Delta R.T. -0.01 min  
Lab File: BM022370.D  
Acq: 27 Aug 2019 17:12

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB2DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.7  | 12.4  | 18.6  |
| 176     | 19.6  | 15.4  | 23.0  |

Manual Integrations  
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#74  
Carbazole  
Concen: 2.254 ng/ul  
RT: 17.39 min Scan# 2449  
Delta R.T. -0.01 min  
Lab File: BM022370.D  
Acq: 27 Aug 2019 17:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 18.7  | 17.8  | 26.8  |
| 139     | 14.6  | 11.8  | 17.8  |

