

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
 Data File : BM014776.D  
 Acq On : 23 Apr 2018 13:53  
 Operator : SJ/JU  
 Sample : J2431-24  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DASM4

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.357       | 7             | 12          | 23           | rVB      | 745010         | 975160        | 13.64%          | 0.591%        |
| 2         | 3.657       | 60            | 63          | 70           | rVB2     | 81710          | 120469        | 1.68%           | 0.073%        |
| 3         | 7.645       | 734           | 741         | 751          | rBV      | 1317717        | 2167022       | 30.30%          | 1.313%        |
| 4         | 7.828       | 764           | 772         | 781          | rBV      | 1000262        | 1596682       | 22.33%          | 0.967%        |
| 5         | 7.922       | 781           | 788         | 795          | rVB      | 631357         | 974385        | 13.63%          | 0.590%        |
| 6         | 8.045       | 801           | 809         | 816          | rBV      | 1319948        | 2143388       | 29.97%          | 1.298%        |
| 7         | 8.416       | 863           | 872         | 880          | rBV      | 1795658        | 2925386       | 40.91%          | 1.772%        |
| 8         | 8.528       | 880           | 891         | 904          | rVB      | 1333903        | 2188746       | 30.61%          | 1.326%        |
| 9         | 9.057       | 973           | 981         | 986          | rBV      | 469005         | 1191138       | 16.66%          | 0.722%        |
| 10        | 9.104       | 986           | 989         | 996          | rVB      | 281315         | 436037        | 6.10%           | 0.264%        |
| 11        | 9.222       | 1002          | 1009        | 1014         | rBV      | 1497889        | 2526970       | 35.34%          | 1.531%        |
| 12        | 9.281       | 1014          | 1019        | 1035         | rVB      | 2296355        | 3838790       | 53.68%          | 2.325%        |
| 13        | 9.634       | 1069          | 1079        | 1086         | rBV      | 2087708        | 3550347       | 49.65%          | 2.151%        |
| 14        | 9.710       | 1086          | 1092        | 1096         | rVV      | 1206690        | 2123489       | 29.69%          | 1.286%        |
| 15        | 9.751       | 1096          | 1099        | 1109         | rVB      | 746348         | 1189979       | 16.64%          | 0.721%        |
| 16        | 10.439      | 1208          | 1216        | 1218         | rBV      | 986064         | 1647831       | 23.04%          | 0.998%        |
| 17        | 10.469      | 1218          | 1221        | 1225         | rVV      | 1241583        | 2242461       | 31.36%          | 1.358%        |
| 18        | 10.510      | 1225          | 1228        | 1240         | rVB      | 1466105        | 2283540       | 31.93%          | 1.383%        |
| 19        | 10.751      | 1262          | 1269        | 1277         | rBV      | 757008         | 1165110       | 16.29%          | 0.706%        |
| 20        | 10.981      | 1300          | 1308        | 1310         | rBV      | 1512677        | 2712494       | 37.93%          | 1.643%        |
| 21        | 11.228      | 1343          | 1350        | 1358         | rVB      | 1370859        | 2258423       | 31.58%          | 1.368%        |
| 22        | 11.375      | 1367          | 1375        | 1382         | rBV      | 1775081        | 3024198       | 42.29%          | 1.832%        |
| 23        | 11.516      | 1387          | 1399        | 1410         | rBV2     | 2738676        | 7151229       | 100.00%         | 4.332%        |
| 24        | 12.345      | 1530          | 1540        | 1550         | rBV      | 2710676        | 4583102       | 64.09%          | 2.776%        |
| 25        | 12.992      | 1643          | 1650        | 1658         | rBV      | 2061810        | 3266622       | 45.68%          | 1.979%        |
| 26        | 13.110      | 1664          | 1670        | 1679         | rBV      | 88082          | 153694        | 2.15%           | 0.093%        |
| 27        | 13.210      | 1679          | 1687        | 1693         | rVB      | 61038          | 107190        | 1.50%           | 0.065%        |
| 28        | 13.327      | 1699          | 1707        | 1723         | rBV      | 2281595        | 3457336       | 48.35%          | 2.094%        |
| 29        | 13.574      | 1743          | 1749        | 1760         | rVB      | 1017359        | 1576169       | 22.04%          | 0.955%        |
| 30        | 14.022      | 1819          | 1825        | 1833         | rVB      | 1157600        | 1757663       | 24.58%          | 1.065%        |
| 31        | 14.216      | 1846          | 1858        | 1865         | rBV      | 3018500        | 4478435       | 62.62%          | 2.713%        |
| 32        | 14.521      | 1903          | 1910        | 1914         | rBV      | 2596409        | 3718963       | 52.00%          | 2.253%        |
| 33        | 14.569      | 1914          | 1918        | 1925         | rVB      | 2440421        | 3377074       | 47.22%          | 2.046%        |
| 34        | 14.692      | 1933          | 1939        | 1944         | rBV      | 801068         | 1107062       | 15.48%          | 0.671%        |

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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.827 | 1952 | 1962 | 1969 | rBV  | 2787313 | 4348175 | 60.80% | 2.634% |
| 36 | 14.945 | 1976 | 1982 | 1988 | rVB2 | 84494   | 173658  | 2.43%  | 0.105% |
| 37 | 15.021 | 1988 | 1995 | 2006 | rVB  | 2924244 | 4524416 | 63.27% | 2.741% |
| 38 | 15.133 | 2007 | 2014 | 2022 | rVB2 | 2313540 | 3654247 | 51.10% | 2.214% |
| 39 | 15.221 | 2022 | 2029 | 2035 | rBV  | 1997975 | 2916950 | 40.79% | 1.767% |
| 40 | 15.304 | 2035 | 2043 | 2056 | rVB3 | 3436967 | 6545681 | 91.53% | 3.965% |
| 41 | 16.104 | 2172 | 2179 | 2183 | rBV  | 3479635 | 5137832 | 71.85% | 3.112% |
| 42 | 16.145 | 2183 | 2186 | 2187 | rVV  | 1388647 | 1682895 | 23.53% | 1.019% |
| 43 | 16.168 | 2187 | 2190 | 2193 | rVV  | 1847960 | 2705079 | 37.83% | 1.639% |
| 44 | 16.221 | 2193 | 2199 | 2212 | rVV3 | 3167186 | 5704186 | 79.77% | 3.456% |
| 45 | 16.345 | 2215 | 2220 | 2228 | rVB2 | 46127   | 83286   | 1.16%  | 0.050% |
| 46 | 17.027 | 2330 | 2336 | 2344 | rBV  | 4697276 | 6216678 | 86.93% | 3.766% |
| 47 | 17.839 | 2468 | 2474 | 2481 | rBV2 | 2677144 | 3987159 | 55.75% | 2.415% |
| 48 | 17.939 | 2484 | 2491 | 2501 | rBV  | 4000864 | 5715228 | 79.92% | 3.462% |
| 49 | 18.368 | 2559 | 2564 | 2570 | rBV  | 355063  | 458474  | 6.41%  | 0.278% |
| 50 | 18.662 | 2610 | 2614 | 2621 | rBV6 | 44113   | 78356   | 1.10%  | 0.047% |
| 51 | 18.792 | 2631 | 2636 | 2642 | rVB  | 2165912 | 2517938 | 35.21% | 1.525% |
| 52 | 19.368 | 2731 | 2734 | 2740 | rVB3 | 60716   | 86852   | 1.21%  | 0.053% |
| 53 | 19.909 | 2822 | 2826 | 2830 | rBV3 | 49454   | 76091   | 1.06%  | 0.046% |
| 54 | 20.174 | 2865 | 2871 | 2879 | rBV  | 4969733 | 6663460 | 93.18% | 4.037% |
| 55 | 21.209 | 3042 | 3047 | 3052 | rBV  | 4464813 | 5172207 | 72.33% | 3.133% |
| 56 | 21.827 | 3148 | 3152 | 3161 | rBV  | 2405635 | 3041875 | 42.54% | 1.843% |
| 57 | 21.927 | 3164 | 3169 | 3177 | rVV  | 3200298 | 4357256 | 60.93% | 2.640% |
| 58 | 24.262 | 3559 | 3566 | 3576 | rVB  | 3312794 | 6822738 | 95.41% | 4.133% |
| 59 | 24.421 | 3586 | 3593 | 3603 | rVB2 | 2106411 | 4387436 | 61.35% | 2.658% |

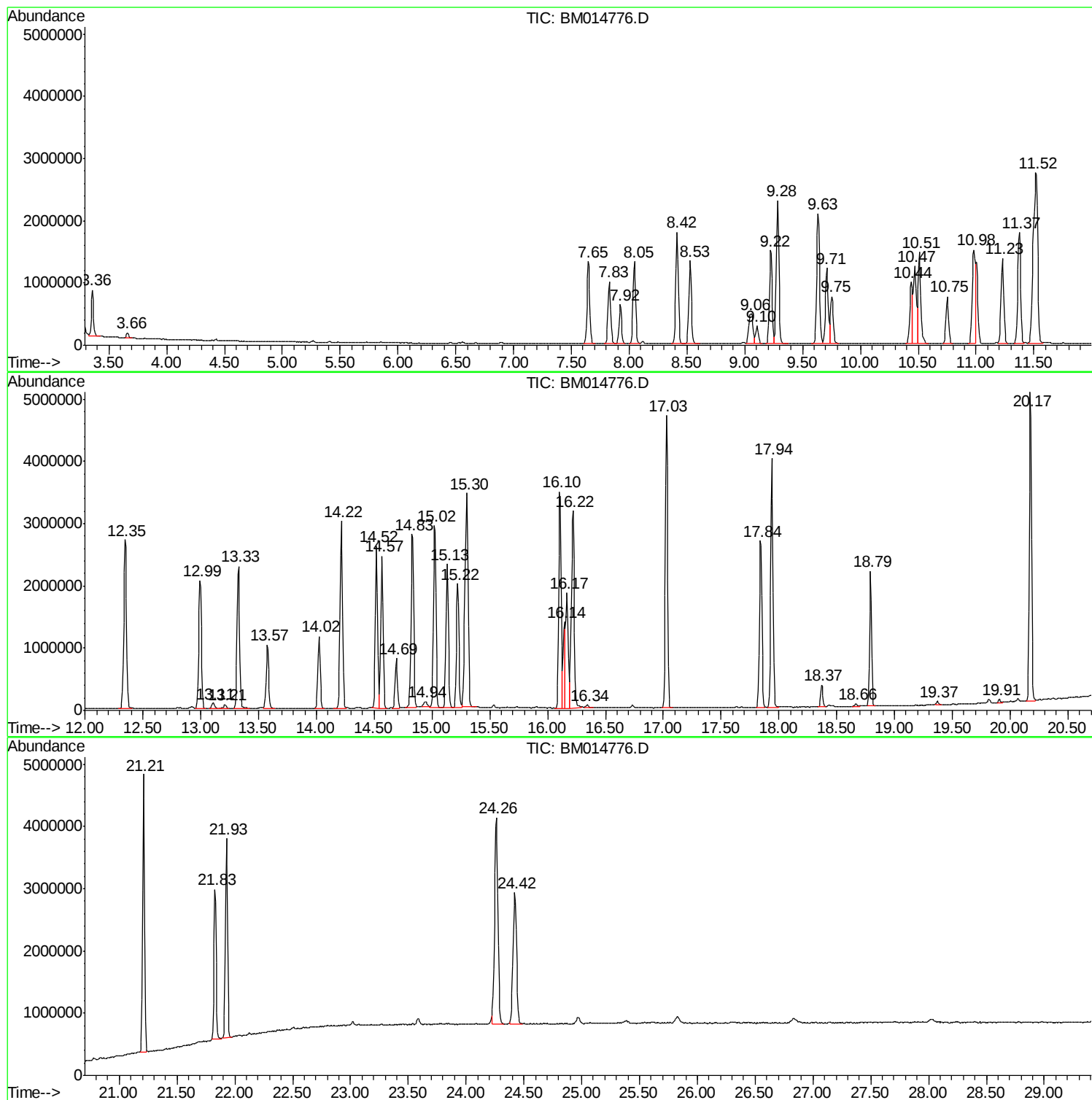
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Instrument :  
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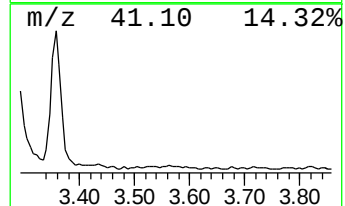
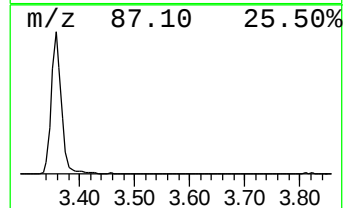
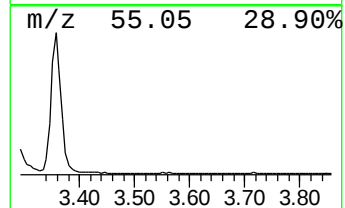
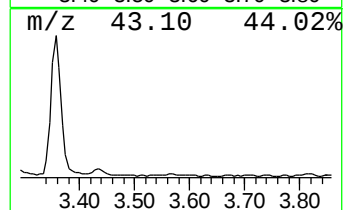
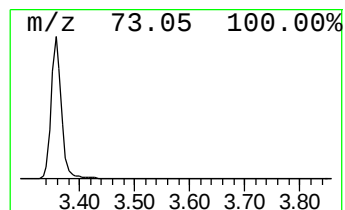
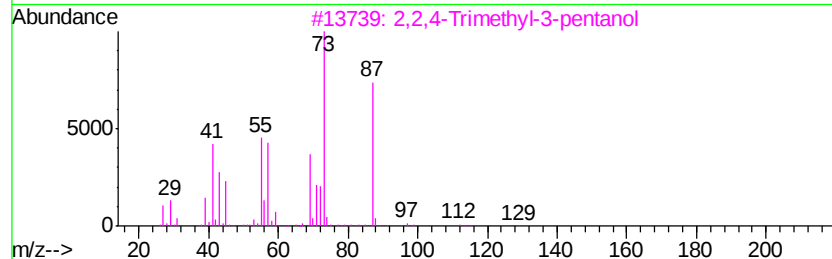
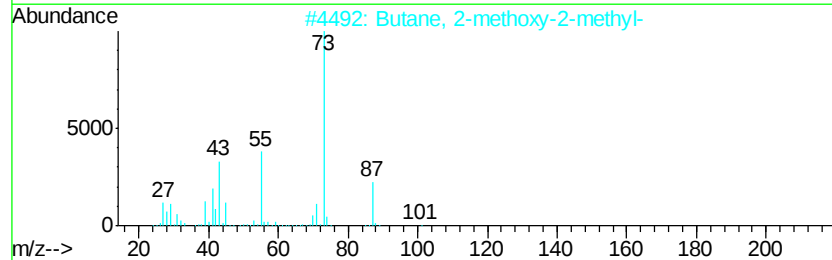
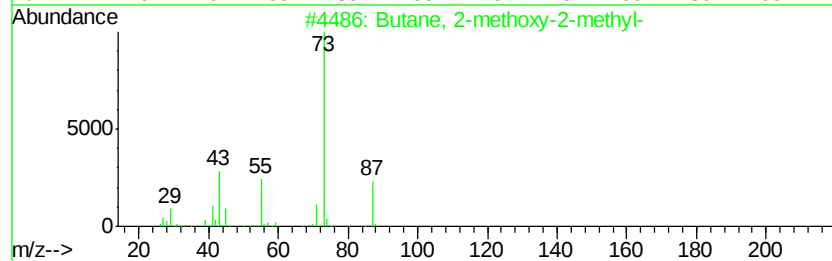
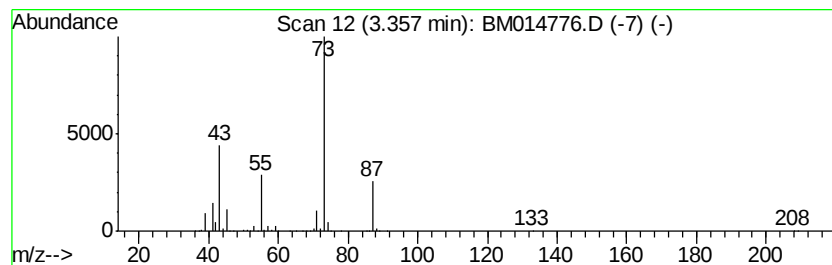
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 3.36 | 8.91 ng/ul | 975160 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 3    |    |   | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 4    |    |   | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 25   |
| 5    |    |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 23   |



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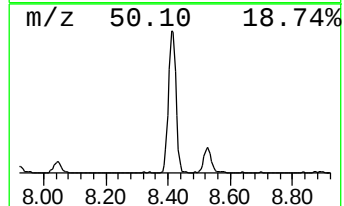
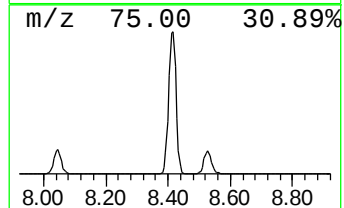
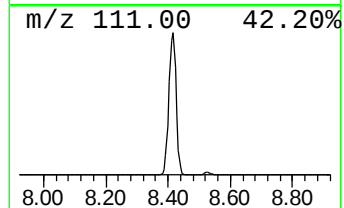
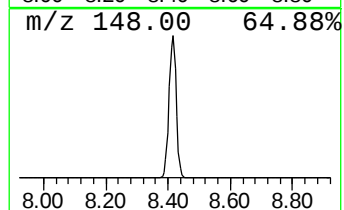
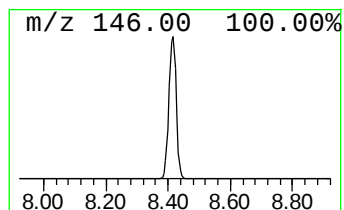
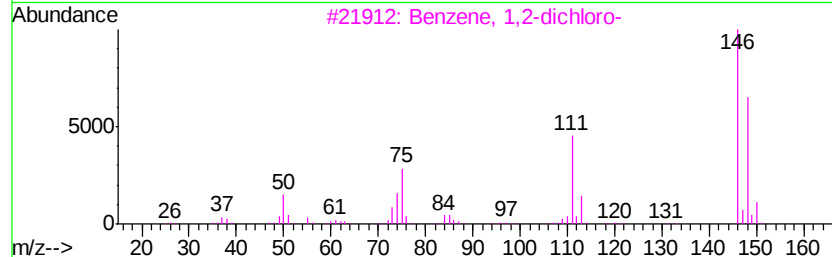
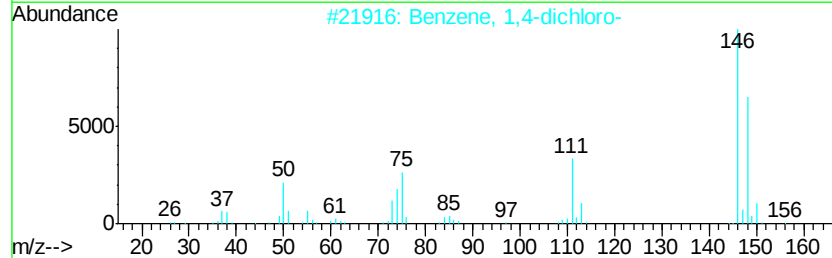
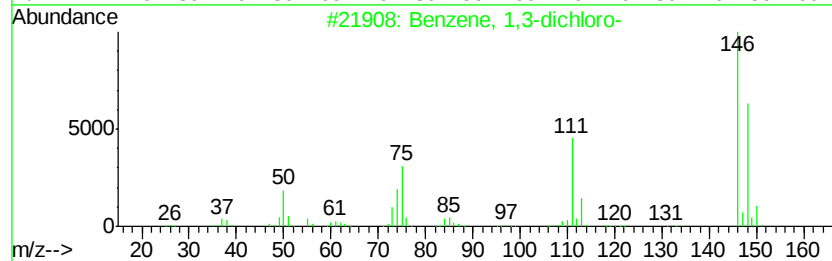
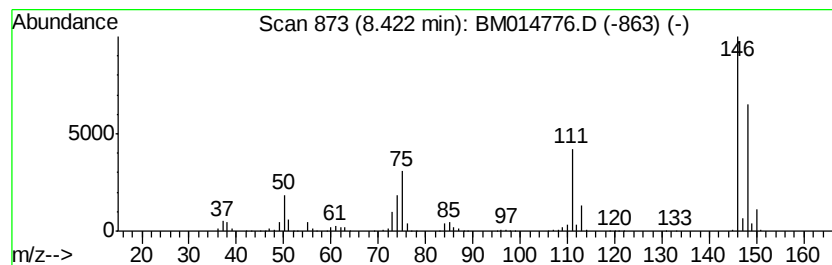
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzene, 1,3-dichloro- Concentration Rank 2

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 8.42 | 26.73 ng/ul | 2925390 | 1,4-Dichlorobenzene-d4 | 8.53 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-dichloro- | 146 | C6H4Cl2 | 000541-73-1 | 98   |
| 2    |    | Benzene, 1,4-dichloro- | 146 | C6H4Cl2 | 000106-46-7 | 98   |
| 3    |    | Benzene, 1,2-dichloro- | 146 | C6H4Cl2 | 000095-50-1 | 98   |
| 4    |    | Benzene, 1,3-dichloro- | 146 | C6H4Cl2 | 000541-73-1 | 97   |
| 5    |    | Benzene, 1,4-dichloro- | 146 | C6H4Cl2 | 000106-46-7 | 96   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

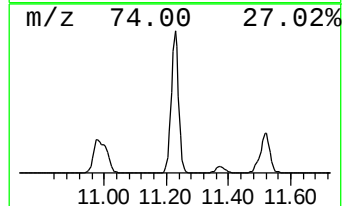
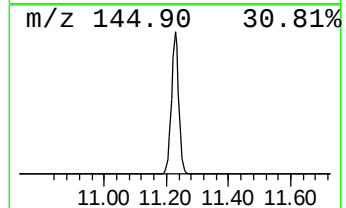
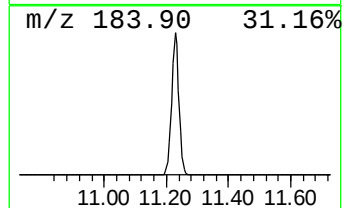
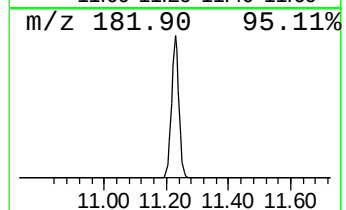
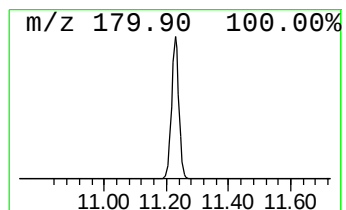
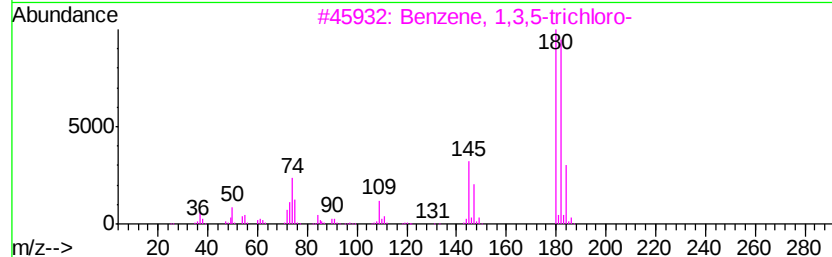
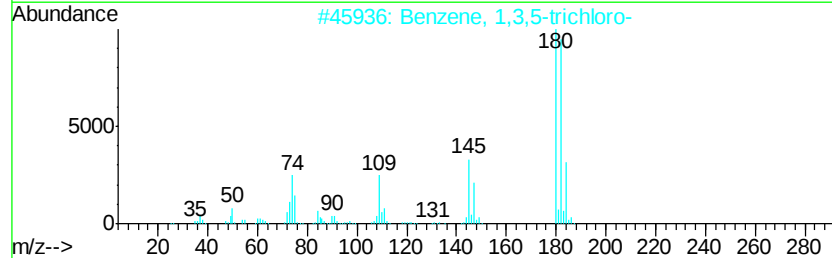
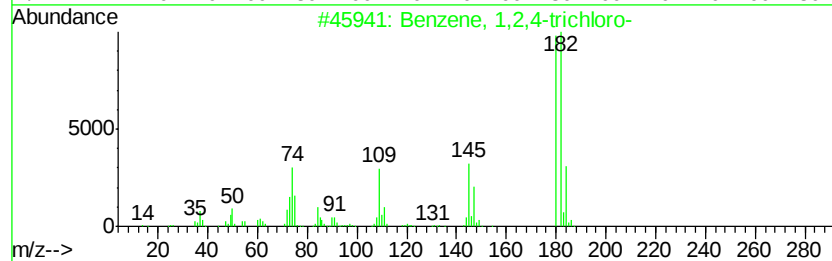
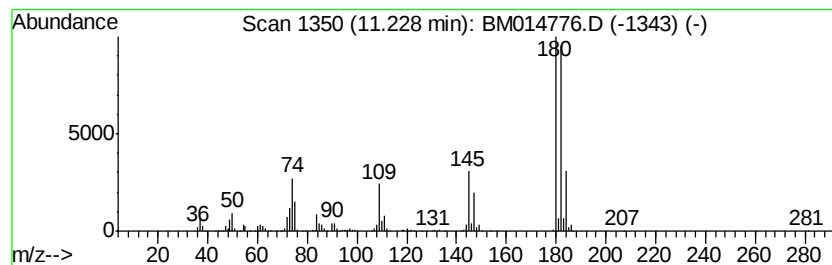
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,4-trichloro- Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.23 | 14.94 ng/ul | 2258420 | Napthalene-d8    | 11.37 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4-trichloro- | 180 | C6H3Cl3 | 000120-82-1 | 98   |
| 2    |    | Benzene, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 98   |
| 3    |    | Benzene, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 98   |
| 4    |    | Benzene, 1,2,3-trichloro- | 180 | C6H3Cl3 | 000087-61-6 | 98   |
| 5    |    | Benzene, 1,2,3-trichloro- | 180 | C6H3Cl3 | 000087-61-6 | 98   |



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Quant Title : SVOA CALIBRATION

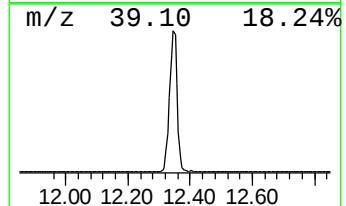
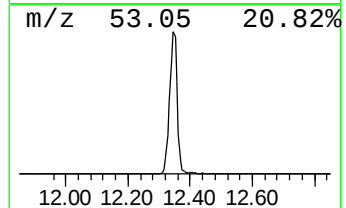
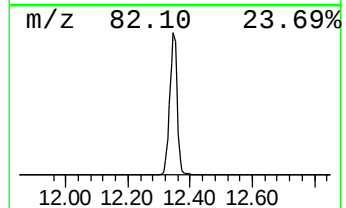
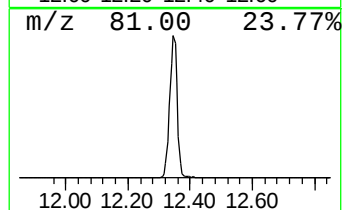
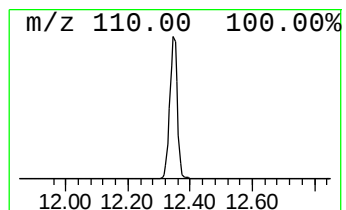
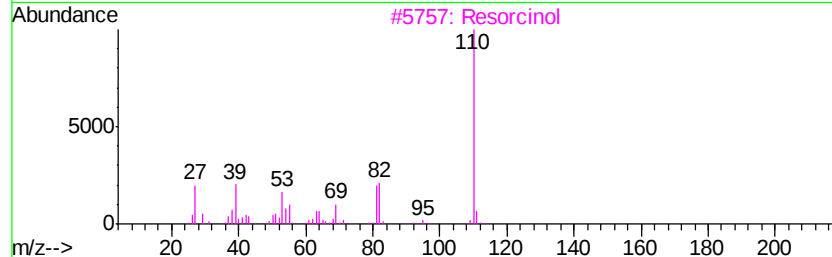
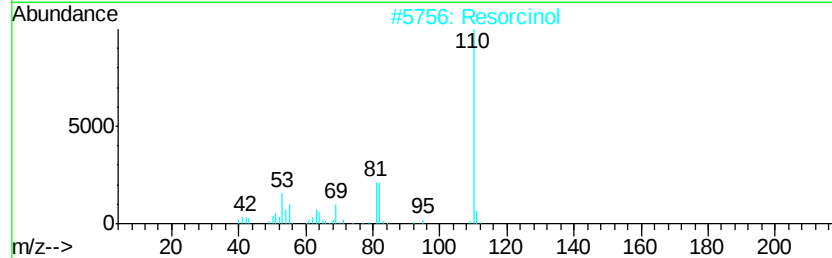
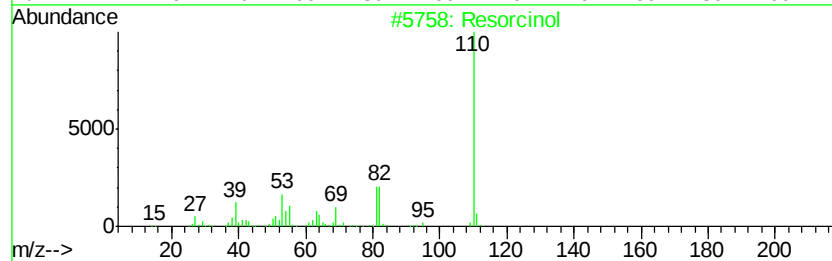
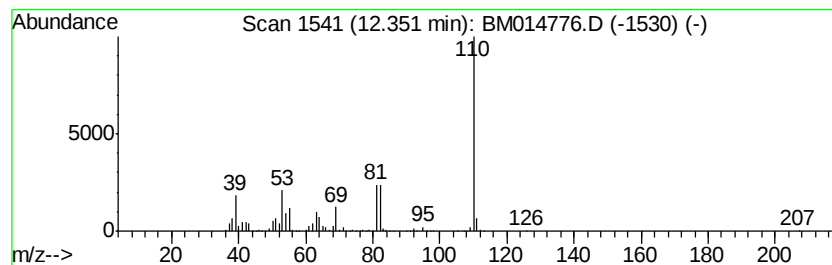
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Resorcinol Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 12.35 | 30.31 ng/ul | 4583100 | Naphthalene-d8   | 11.37 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Resorcinol   | 110 | C6H6O2  | 000108-46-3 | 97   |
| 2    |    | Resorcinol   | 110 | C6H6O2  | 000108-46-3 | 97   |
| 3    |    | Resorcinol   | 110 | C6H6O2  | 000108-46-3 | 95   |
| 4    |    | Resorcinol   | 110 | C6H6O2  | 000108-46-3 | 90   |
| 5    |    | Hydroquinone | 110 | C6H6O2  | 000123-31-9 | 83   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014776.D  
Acq On : 23 Apr 2018 13:53  
Operator : SJ/JU  
Sample : J2431-24  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DASM4

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

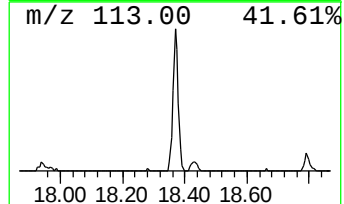
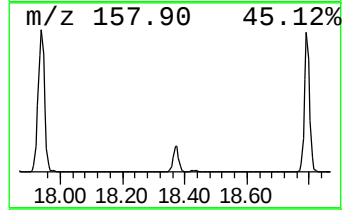
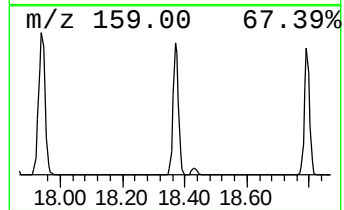
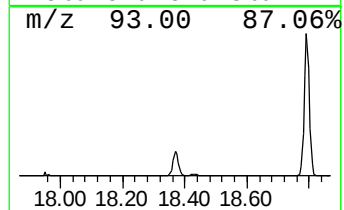
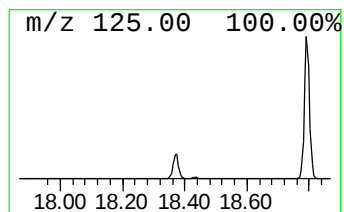
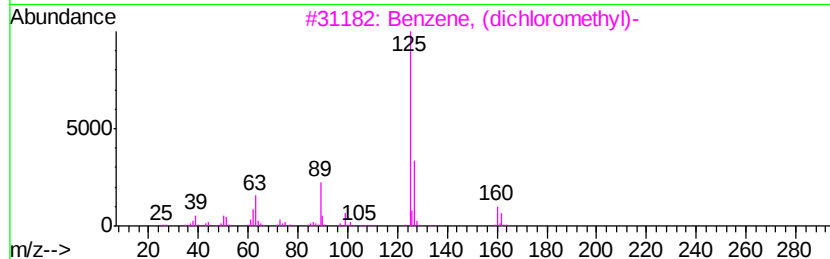
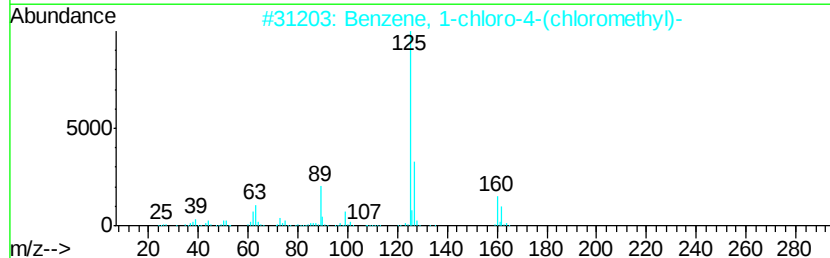
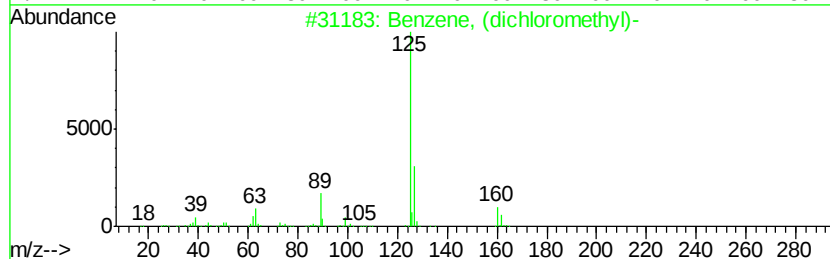
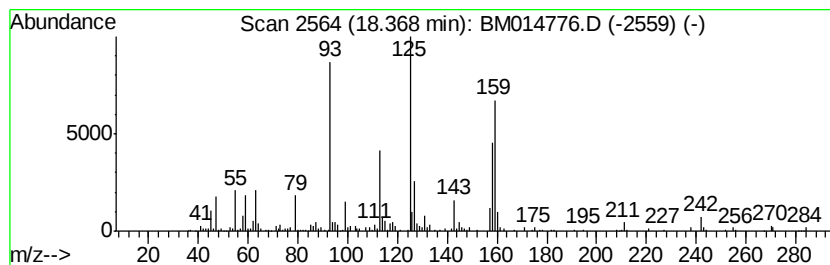
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown-01 Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.37 | 2.30 ng/ul | 458474 | Phenanthrene-d10 | 17.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (dichloromethyl)-          | 160 | C7H6Cl2 | 000098-87-3 | 18   |
| 2    |    | Benzene, 1-chloro-4-(chloromethyl)- | 160 | C7H6Cl2 | 000104-83-6 | 18   |
| 3    |    | Benzene, (dichloromethyl)-          | 160 | C7H6Cl2 | 000098-87-3 | 18   |
| 4    |    | 4-Chlorobenzyl mercaptan            | 158 | C7H7ClS | 006258-66-8 | 16   |
| 5    |    | Benzene, 1-chloro-2-(chloromethyl)- | 160 | C7H6Cl2 | 000611-19-8 | 14   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014776.D  
Acq On : 23 Apr 2018 13:53  
Operator : SJ/JU  
Sample : J2431-24  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DASM4

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

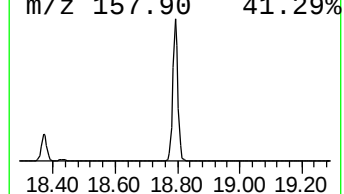
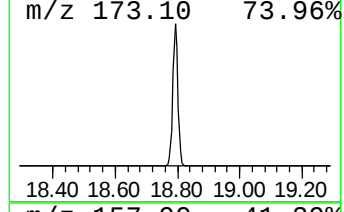
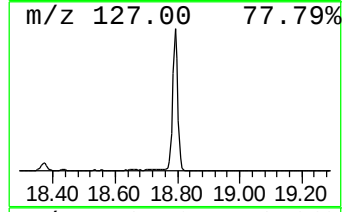
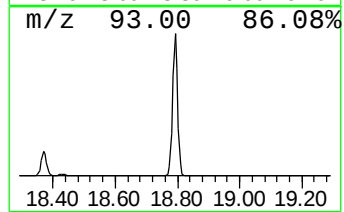
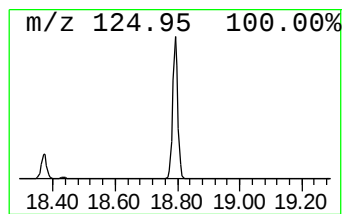
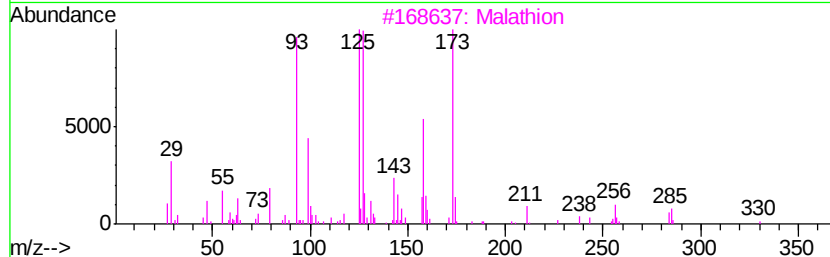
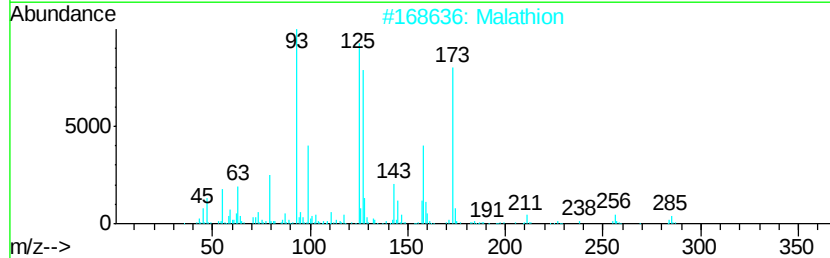
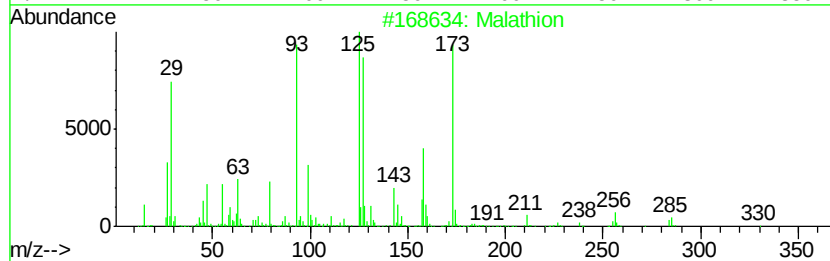
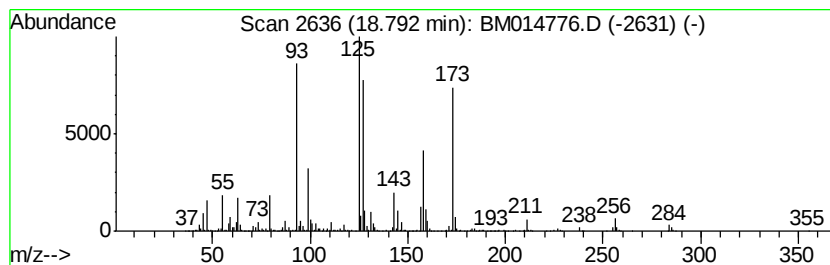
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Malathion Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.79 | 12.63 ng/ul | 2517940 | Phenanthrene-d10 | 17.84 |

| Hit# | of | Tentative ID | MW  | MolForm     | CAS#        | Qual |
|------|----|--------------|-----|-------------|-------------|------|
| 1    | 5  | Malathion    | 330 | C10H19O6PS2 | 000121-75-5 | 94   |
| 2    |    | Malathion    | 330 | C10H19O6PS2 | 000121-75-5 | 94   |
| 3    |    | Malathion    | 330 | C10H19O6PS2 | 000121-75-5 | 90   |
| 4    |    | Malathion    | 330 | C10H19O6PS2 | 000121-75-5 | 58   |
| 5    |    | Malathion    | 330 | C10H19O6PS2 | 000121-75-5 | 50   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
Data File : BM014776.D  
Acq On : 23 Apr 2018 13:53  
Operator : SJ/JU  
Sample : J2431-24  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DASM4

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

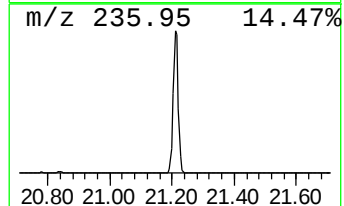
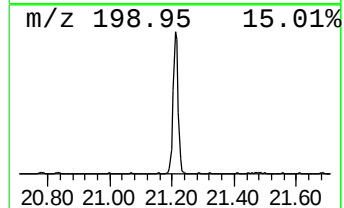
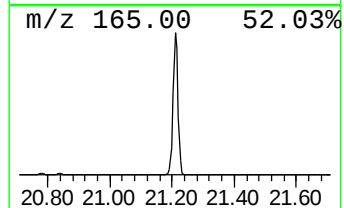
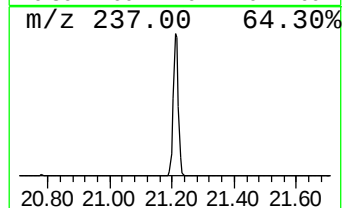
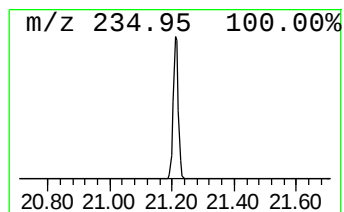
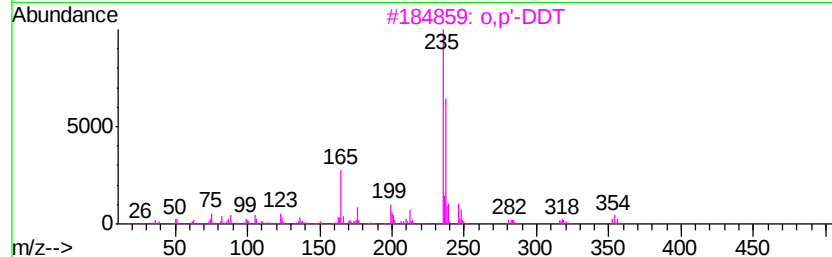
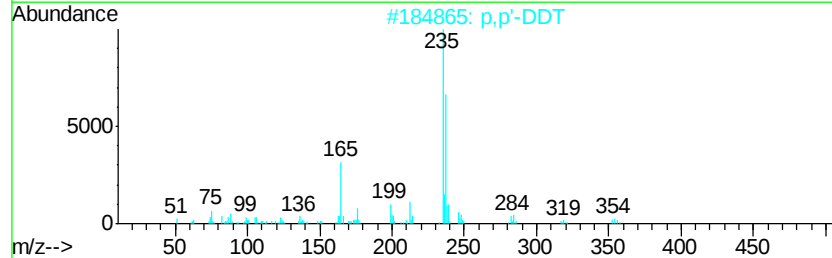
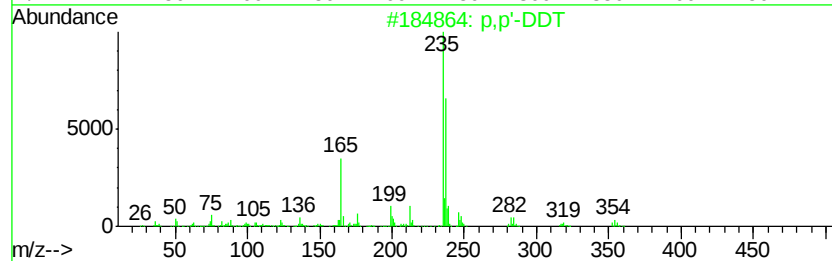
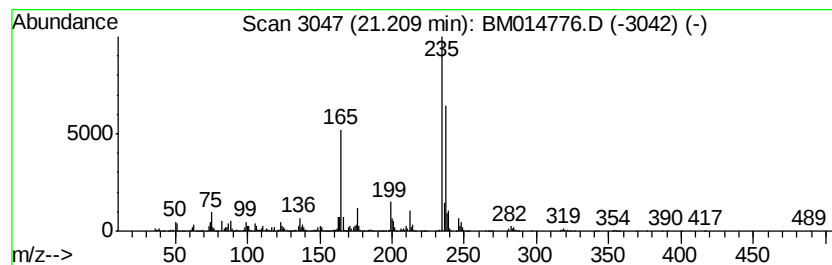
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 p,p'-DDT Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 21.21 | 23.74 ng/ul | 5172210 | Chrysene-d12     | 21.93 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | p,p'-DDT                            | 352 | C14H9Cl5   | 000050-29-3  | 99   |
| 2    |    | p,p'-DDT                            | 352 | C14H9Cl5   | 000050-29-3  | 99   |
| 3    |    | o,p'-DDT                            | 352 | C14H9Cl5   | 000789-02-6  | 98   |
| 4    |    | 3-Butanone, 1,1-bis(4-chlorophen... | 320 | C18H18Cl2O | 1000158-20-4 | 93   |
| 5    |    | 1,1-Dichloro-2,2-bis(p-chlorophe... | 318 | C14H10Cl4  | 000072-54-8  | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042318\  
Data File : BM014776.D  
Acq On : 23 Apr 2018 13:53  
Operator : SJ/JU  
Sample : J2431-24  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DASM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.36  | 8.9     | ng/ul | 975160   | 1                     | 8.53  | 2188750 | 20.0 |
| Benzene, 1,3-dich... | 8.42  | 26.7    | ng/ul | 2925390  | 1                     | 8.53  | 2188750 | 20.0 |
| Benzene, 1,2,4-tr... | 11.23 | 14.9    | ng/ul | 2258420  | 2                     | 11.37 | 3024200 | 20.0 |
| Resorcinol           | 12.35 | 30.3    | ng/ul | 4583100  | 2                     | 11.37 | 3024200 | 20.0 |
| unknown-01           | 18.37 | 2.3     | ng/ul | 458474   | 4                     | 17.84 | 3987160 | 20.0 |
| Malathion            | 18.79 | 12.6    | ng/ul | 2517940  | 4                     | 17.84 | 3987160 | 20.0 |
| p,p'-DDT             | 21.21 | 23.7    | ng/ul | 5172210  | 5                     | 21.93 | 4357260 | 20.0 |