

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012920\  
 Data File : VY001417.D  
 Acq On : 29 Jan 2020 12:42  
 Operator : SY/MD  
 Sample : L1013-07  
 Misc : 5.94G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PL-05-012820

## Integration Parameters: RTEINT.P

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

Filtering: 5  
 Min Area: 3 % 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:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Title : SW846 8260

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         | 3.981       | 362           | 368         | 379          | rBV      | 3993           | 11139         | 1.17%           | 0.170%        |
| 2         | 4.755       | 485           | 495         | 512          | rVB2     | 20580          | 66993         | 7.04%           | 1.022%        |
| 3         | 5.791       | 657           | 665         | 676          | rVB3     | 4118           | 12674         | 1.33%           | 0.193%        |
| 4         | 7.754       | 976           | 987         | 992          | rBV      | 120539         | 292475        | 30.73%          | 4.463%        |
| 5         | 7.821       | 992           | 998         | 1011         | rVB      | 212502         | 473450        | 49.75%          | 7.225%        |
| 6         | 8.169       | 1045          | 1055        | 1067         | rBV      | 122358         | 272695        | 28.65%          | 4.162%        |
| 7         | 8.712       | 1136          | 1144        | 1155         | rVB      | 357370         | 687463        | 72.23%          | 10.491%       |
| 8         | 10.193      | 1379          | 1387        | 1394         | rBV      | 553901         | 951728        | 100.00%         | 14.524%       |
| 9         | 11.498      | 1594          | 1601        | 1610         | rBV      | 511459         | 814901        | 85.62%          | 12.436%       |
| 10        | 12.491      | 1756          | 1764        | 1770         | rBV      | 371345         | 596895        | 62.72%          | 9.109%        |
| 11        | 12.814      | 1813          | 1817        | 1822         | rVB5     | 6869           | 10444         | 1.10%           | 0.159%        |
| 12        | 13.320      | 1893          | 1900        | 1904         | rBV5     | 5727           | 9911          | 1.04%           | 0.151%        |
| 13        | 13.430      | 1912          | 1918        | 1928         | rVB      | 485597         | 753650        | 79.19%          | 11.502%       |
| 14        | 13.631      | 1947          | 1951        | 1954         | rVV2     | 15815          | 22577         | 2.37%           | 0.345%        |
| 15        | 13.674      | 1954          | 1958        | 1966         | rVB3     | 17010          | 34262         | 3.60%           | 0.523%        |
| 16        | 13.753      | 1966          | 1971        | 1976         | rBV4     | 13866          | 21909         | 2.30%           | 0.334%        |
| 17        | 13.833      | 1980          | 1984        | 1987         | rVB2     | 8765           | 12161         | 1.28%           | 0.186%        |
| 18        | 13.894      | 1989          | 1994        | 1995         | rBV2     | 7250           | 9518          | 1.00%           | 0.145%        |
| 19        | 13.918      | 1995          | 1998        | 2003         | rVB      | 13218          | 19632         | 2.06%           | 0.300%        |
| 20        | 13.979      | 2003          | 2008        | 2013         | rVB2     | 26793          | 40051         | 4.21%           | 0.611%        |
| 21        | 14.089      | 2020          | 2026        | 2030         | rBV2     | 35305          | 56893         | 5.98%           | 0.868%        |
| 22        | 14.217      | 2042          | 2047        | 2051         | rBV4     | 8575           | 13851         | 1.46%           | 0.211%        |
| 23        | 14.265      | 2051          | 2055        | 2058         | rVV4     | 14093          | 23350         | 2.45%           | 0.356%        |
| 24        | 14.302      | 2058          | 2061        | 2064         | rVV2     | 15554          | 21956         | 2.31%           | 0.335%        |
| 25        | 14.339      | 2064          | 2067        | 2071         | rVB      | 20648          | 28341         | 2.98%           | 0.433%        |
| 26        | 14.387      | 2071          | 2075        | 2079         | rBV      | 22442          | 31127         | 3.27%           | 0.475%        |
| 27        | 14.430      | 2079          | 2082        | 2086         | rVV2     | 17350          | 22695         | 2.38%           | 0.346%        |
| 28        | 14.485      | 2088          | 2091        | 2094         | rVV4     | 9107           | 14932         | 1.57%           | 0.228%        |
| 29        | 14.528      | 2094          | 2098        | 2102         | rVV3     | 18805          | 28831         | 3.03%           | 0.440%        |
| 30        | 14.570      | 2102          | 2105        | 2110         | rVV2     | 21062          | 42744         | 4.49%           | 0.652%        |
| 31        | 14.619      | 2110          | 2113        | 2118         | rVB      | 23113          | 34180         | 3.59%           | 0.522%        |
| 32        | 14.692      | 2118          | 2125        | 2130         | rBV3     | 61115          | 146175        | 15.36%          | 2.231%        |
| 33        | 14.747      | 2130          | 2134        | 2139         | rVB2     | 16369          | 28177         | 2.96%           | 0.430%        |
| 34        | 14.839      | 2144          | 2149        | 2154         | rVV      | 36493          | 58495         | 6.15%           | 0.893%        |

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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Integrator: RTE  
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Filtering: 5  
Min Area: 3 % 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:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Title : SW846 8260

|    |        |      |      |      |      |       |        |        |        |
|----|--------|------|------|------|------|-------|--------|--------|--------|
| 35 | 14.912 | 2157 | 2161 | 2163 | rVV5 | 9883  | 15774  | 1.66%  | 0.241% |
| 36 | 14.954 | 2163 | 2168 | 2171 | rVV3 | 32253 | 61787  | 6.49%  | 0.943% |
| 37 | 14.985 | 2171 | 2173 | 2180 | rVV4 | 21852 | 42631  | 4.48%  | 0.651% |
| 38 | 15.064 | 2180 | 2186 | 2192 | rVB2 | 31956 | 68936  | 7.24%  | 1.052% |
| 39 | 15.241 | 2204 | 2215 | 2220 | rBV7 | 14006 | 45501  | 4.78%  | 0.694% |
| 40 | 15.302 | 2220 | 2225 | 2229 | rVV  | 34835 | 59603  | 6.26%  | 0.910% |
| 41 | 15.357 | 2229 | 2234 | 2244 | rVV4 | 25624 | 100656 | 10.58% | 1.536% |
| 42 | 15.436 | 2245 | 2247 | 2256 | rVB5 | 14299 | 25792  | 2.71%  | 0.394% |
| 43 | 15.534 | 2256 | 2263 | 2270 | rBV3 | 23284 | 47908  | 5.03%  | 0.731% |
| 44 | 15.613 | 2270 | 2276 | 2280 | rBV3 | 6191  | 12555  | 1.32%  | 0.192% |
| 45 | 15.698 | 2282 | 2290 | 2291 | rBV5 | 17846 | 33272  | 3.50%  | 0.508% |
| 46 | 15.735 | 2292 | 2296 | 2305 | rVB2 | 55586 | 94039  | 9.88%  | 1.435% |
| 47 | 15.820 | 2305 | 2310 | 2316 | rBV5 | 8867  | 17442  | 1.83%  | 0.266% |
| 48 | 15.893 | 2316 | 2322 | 2328 | rBV4 | 14928 | 33213  | 3.49%  | 0.507% |
| 49 | 16.046 | 2339 | 2347 | 2353 | rBV2 | 30085 | 64116  | 6.74%  | 0.978% |
| 50 | 16.235 | 2370 | 2378 | 2384 | rBV3 | 32120 | 71039  | 7.46%  | 1.084% |
| 51 | 16.302 | 2384 | 2389 | 2394 | rBV2 | 12485 | 24572  | 2.58%  | 0.375% |
| 52 | 16.497 | 2415 | 2421 | 2427 | rBV9 | 11454 | 31967  | 3.36%  | 0.488% |
| 53 | 16.643 | 2436 | 2445 | 2451 | rVB7 | 8340  | 21961  | 2.31%  | 0.335% |
| 54 | 16.838 | 2470 | 2477 | 2486 | rVB8 | 4403  | 13581  | 1.43%  | 0.207% |

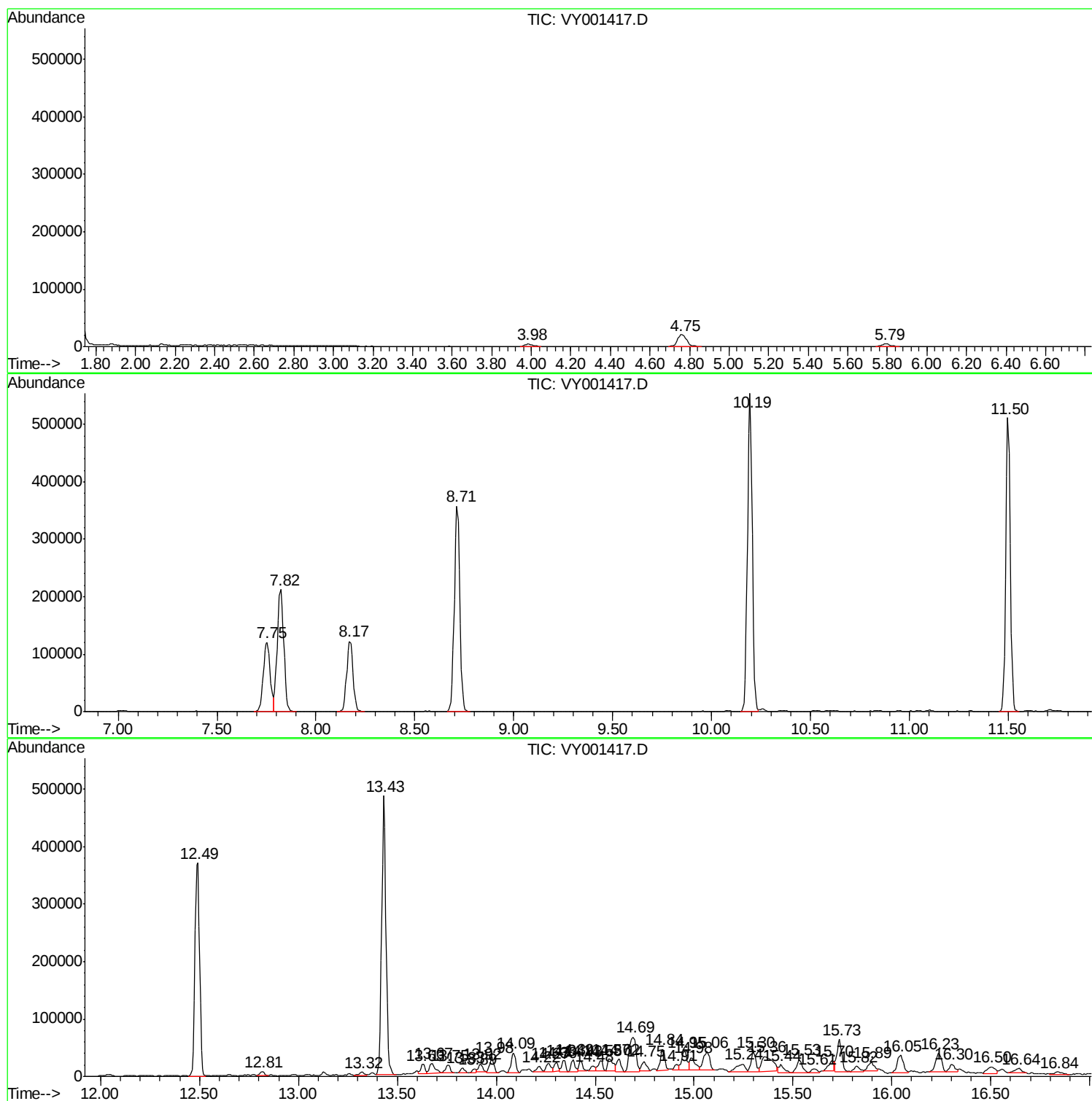
Sum of corrected areas: 6552620

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MSVOA\_Y  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260

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



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Operator : SY/MD  
Sample : L1013-07  
Misc : 5.94G/5ML/MSVOA Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

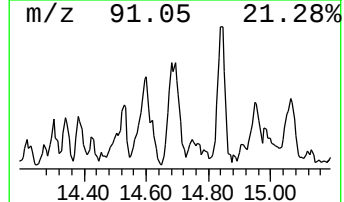
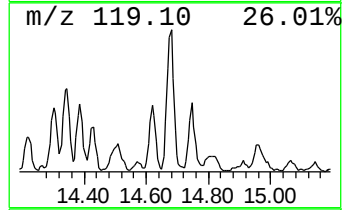
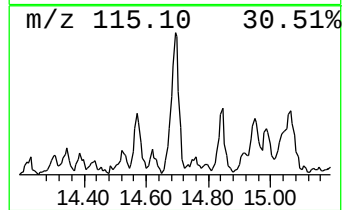
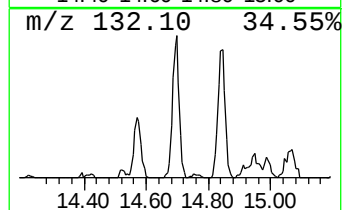
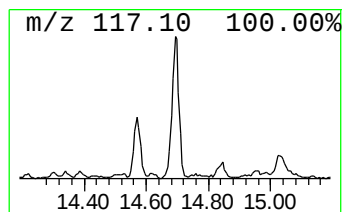
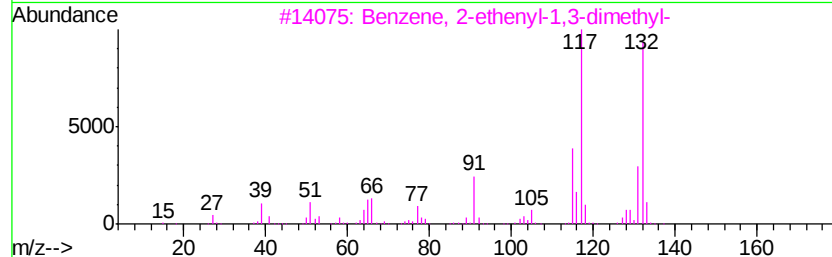
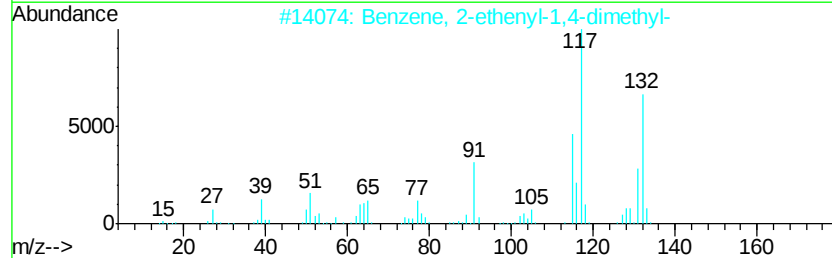
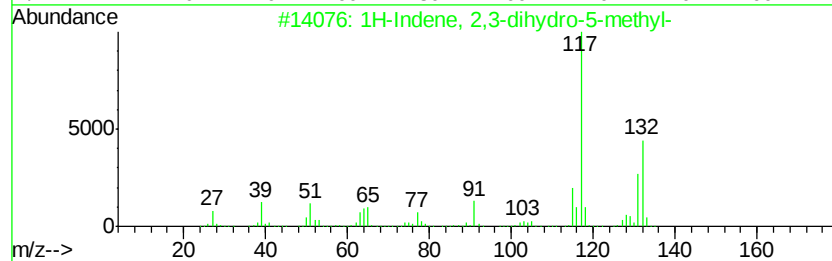
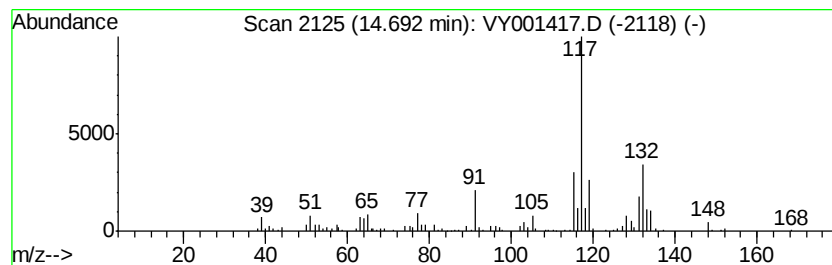
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PL-05-012820

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260

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

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Peak Number 1 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 1

| R.T.    | EstConc   | Area                                 | Relative to ISTD       | R.T.    |             |      |
|---------|-----------|--------------------------------------|------------------------|---------|-------------|------|
| 14.69   | 9.70 ug/l | 146175                               | 1,4-Dichlorobenzene-d4 | 13.43   |             |      |
| Hit# of | 5         | Tentative ID                         | MW                     | MolForm | CAS#        | Qual |
| 1       |           | 1H-Indene, 2,3-dihydro-5-methyl-     | 132                    | C10H12  | 000874-35-1 | 92   |
| 2       |           | Benzene, 2-ethenyl-1,4-dimethyl-     | 132                    | C10H12  | 002039-89-6 | 90   |
| 3       |           | Benzene, 2-ethenyl-1,3-dimethyl-     | 132                    | C10H12  | 002039-90-9 | 81   |
| 4       |           | 1H-Indene, 2,3-dihydro-2-methyl-     | 132                    | C10H12  | 000824-63-5 | 81   |
| 5       |           | Benzene, (1-methyl-1-propenyl)-, ... | 132                    | C10H12  | 000768-00-3 | 76   |



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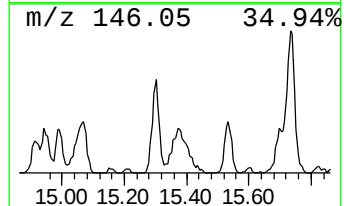
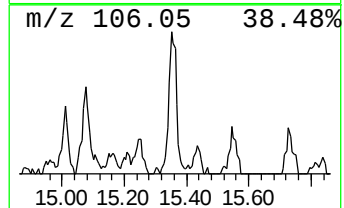
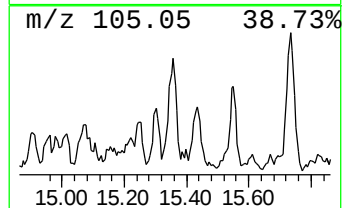
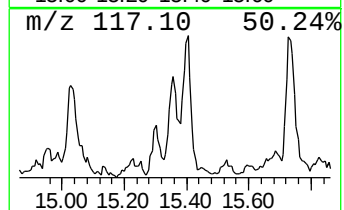
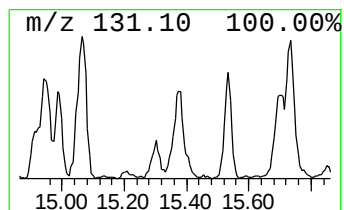
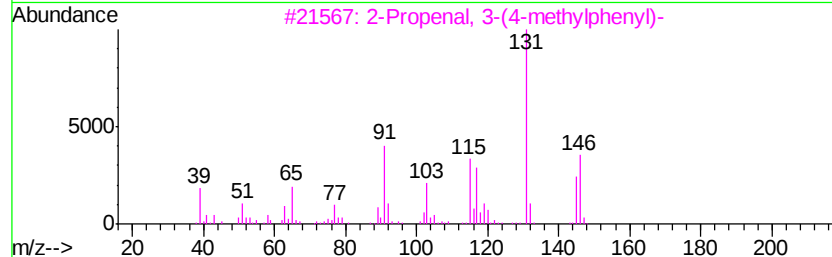
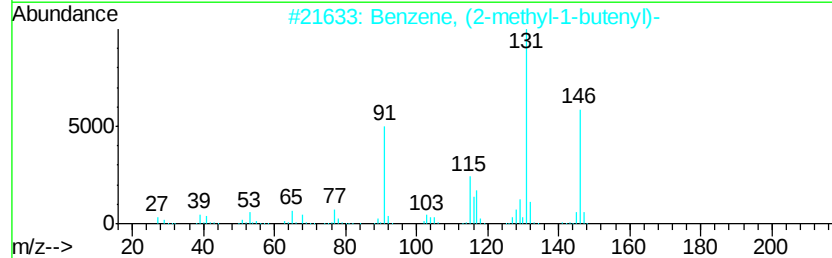
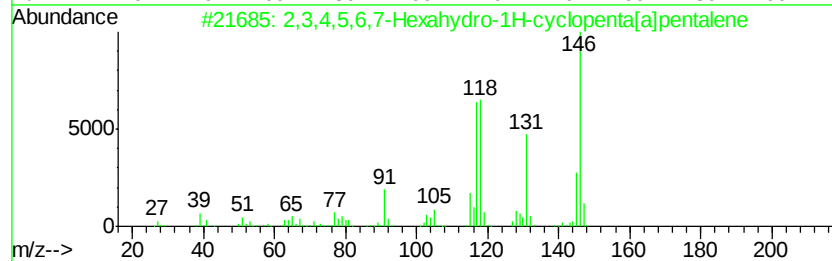
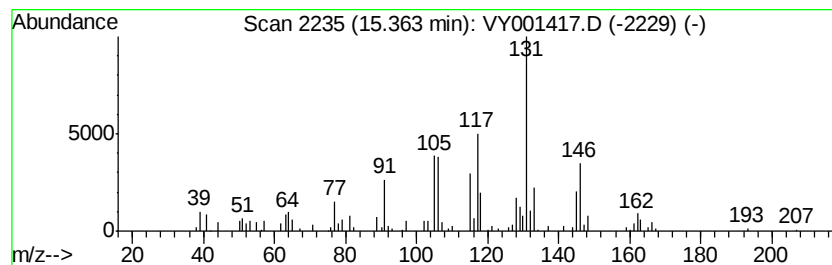
Instrument :  
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ClientSampleId :  
PL-05-012820

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260

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

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Peak Number 2 unknown15.36 Concentration Rank 2

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 15.36   | 6.68 ug/l                           | 100656       | 1,4-Dichlorobenzene-d4 | 13.43     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 C11H14   | 1000189-31-0           | 45        |
| 2       | Benzene, (2-methyl-1-butenyl)-      | 146 C11H14   | 056253-64-6            | 42        |
| 3       | 2-Propenal, 3-(4-methylphenyl)-     | 146 C10H10O  | 001504-75-2            | 41        |
| 4       | Benzene, 1-(chloromethyl)-4-(2-p... | 166 C10H11Cl | 036875-10-2            | 38        |
| 5       | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14   | 002809-64-5            | 38        |



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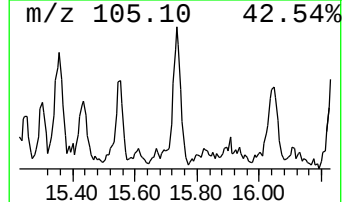
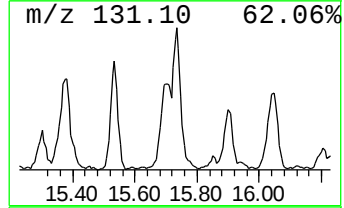
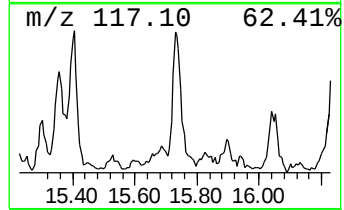
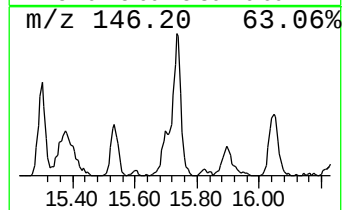
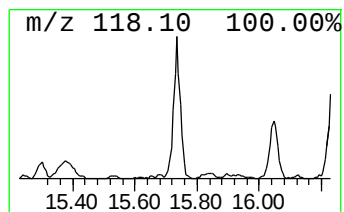
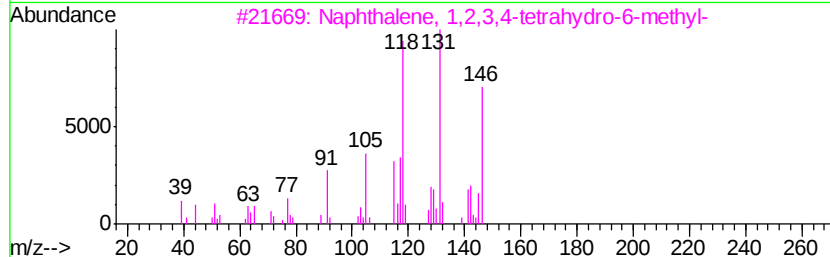
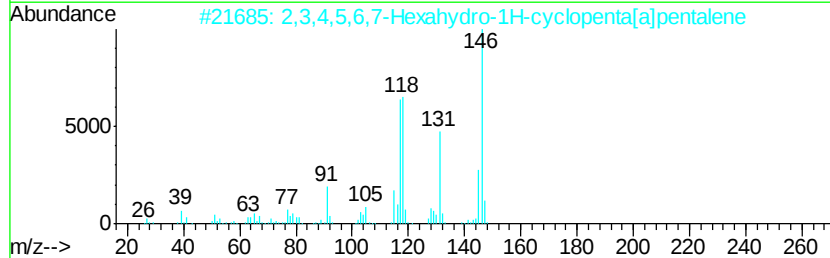
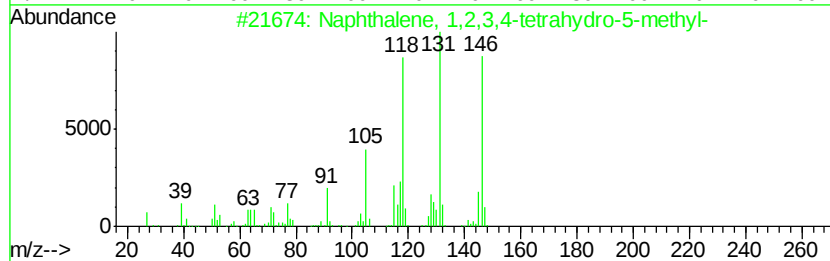
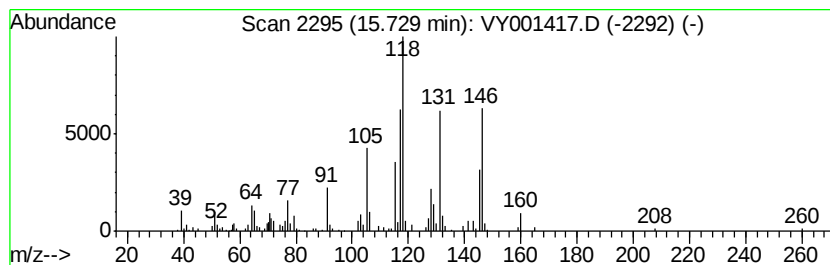
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1,2,3,4-tetra... Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.73 | 6.24 ug/l | 94039 | 1,4-Dichlorobenzene-d4 | 13.43 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5  | 72   |
| 2    |    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14  | 1000189-31-0 | 68   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9  | 62   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1  | 53   |
| 5    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5  | 46   |



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Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |        |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|--------|------|
|                      |       |         |       |          | #                       | RT    | Resp   | Conc |
| 1H-Indene, 2,3-di... | 14.69 | 9.7     | ug/l  | 146175   | 4                       | 13.43 | 753650 | 50.0 |
| unknown15.36         | 15.36 | 6.7     | ug/l  | 100656   | 4                       | 13.43 | 753650 | 50.0 |
| Naphthalene, 1,2,... | 15.73 | 6.2     | ug/l  | 94039    | 4                       | 13.43 | 753650 | 50.0 |