

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN101518\  
Data File : VN051871.D  
Acq On : 15 Oct 2018 13:57  
Operator : MD\SY  
Sample : J5510-02  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
002M-35TH-AVE-OCT

## Integration Parameters: RTEINT3.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0  
Filtering: 5  
Min Area: 0 % 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\_N\METHODS\624N101218W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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         | 3.818       | 614           | 636         | 656          | rBV      | 1370951        | 3637975       | 13.11%          | 8.402%        |
| 2         | 4.066       | 696           | 713         | 746          | rBV      | 325629         | 918977        | 3.31%           | 2.122%        |
| 3         | 7.201       | 1667          | 1688        | 1716         | rBV2     | 288645         | 796481        | 2.87%           | 1.839%        |
| 4         | 8.030       | 1929          | 1946        | 1970         | rBV2     | 275262         | 662323        | 2.39%           | 1.530%        |
| 5         | 8.587       | 2104          | 2119        | 2145         | rBV      | 744105         | 1549978       | 5.58%           | 3.580%        |
| 6         | 10.091      | 2571          | 2587        | 2595         | rBV      | 1112965        | 2034695       | 7.33%           | 4.699%        |
| 7         | 10.156      | 2595          | 2607        | 2636         | rVB      | 15380492       | 27756829      | 100.00%         | 64.103%       |
| 8         | 11.406      | 2979          | 2996        | 3020         | rBV      | 971076         | 1781535       | 6.42%           | 4.114%        |
| 9         | 11.805      | 3104          | 3120        | 3140         | rBV      | 826304         | 1305035       | 4.70%           | 3.014%        |
| 10        | 12.403      | 3289          | 3306        | 3325         | rBV      | 683520         | 1251343       | 4.51%           | 2.890%        |
| 11        | 13.165      | 3527          | 3543        | 3556         | rVB5     | 198755         | 371631        | 1.34%           | 0.858%        |
| 12        | 13.287      | 3571          | 3581        | 3592         | rVB      | 580325         | 913366        | 3.29%           | 2.109%        |
| 13        | 14.902      | 4074          | 4083        | 4097         | rVB2     | 180973         | 319871        | 1.15%           | 0.739%        |

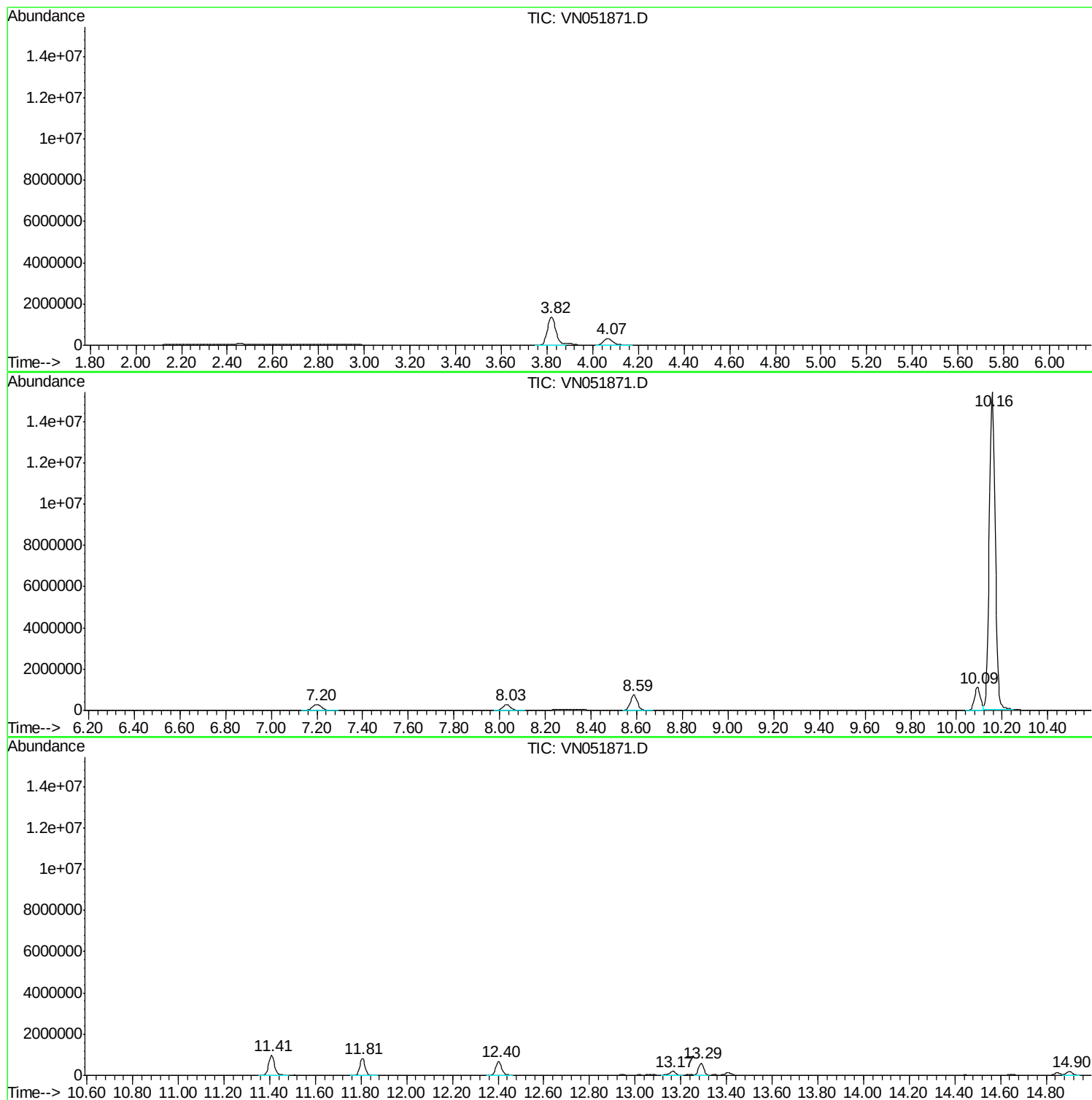
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ClientSampleId :  
002M-35TH-AVE-OCT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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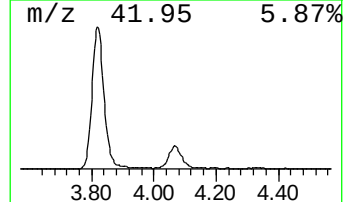
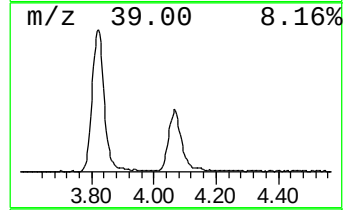
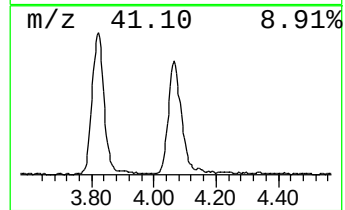
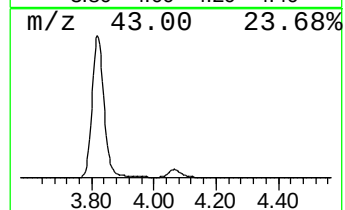
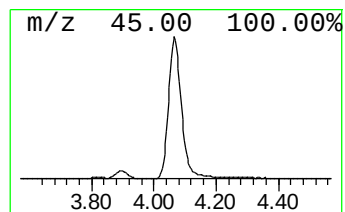
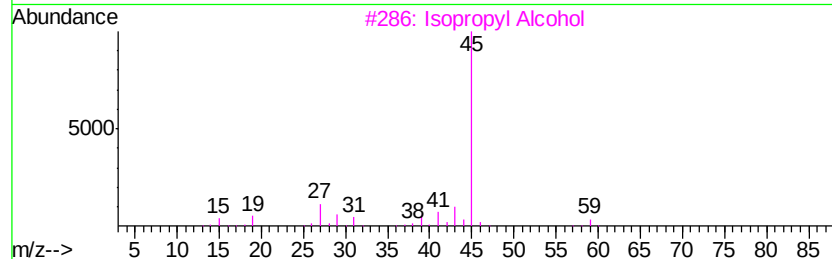
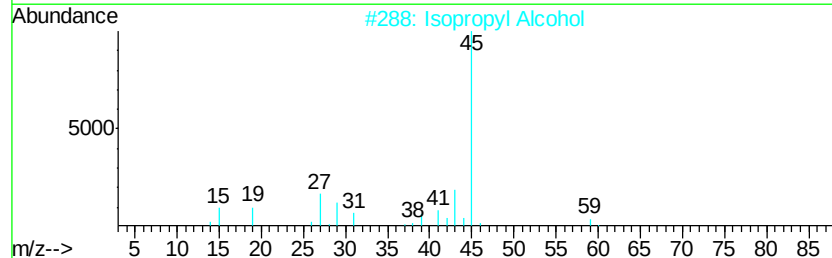
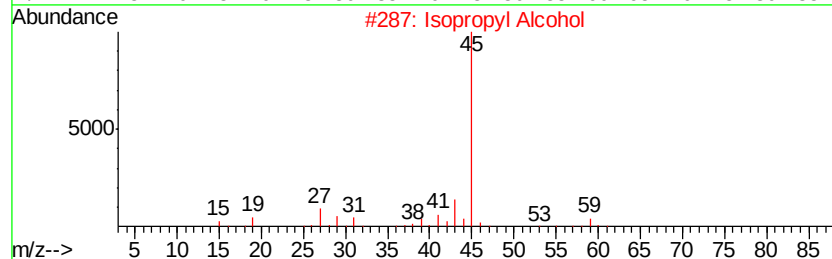
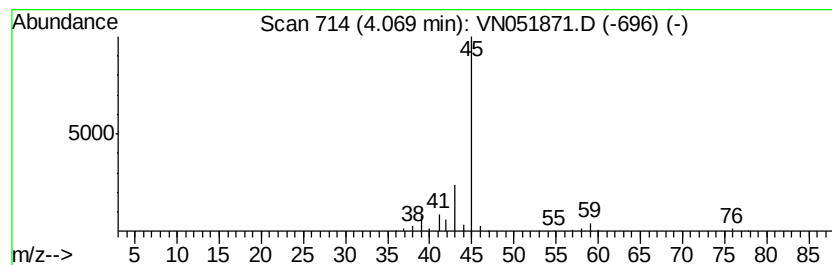
Instrument :  
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ClientSampleId :  
002M-35TH-AVE-OCT

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 1

| R.T.    | EstConc                          | Area         | Relative to ISTD   | R.T.    |             |      |
|---------|----------------------------------|--------------|--------------------|---------|-------------|------|
| 4.07    | 34.61 ug/l                       | 918977       | Bromochloromethane | 7.20    |             |      |
| Hit# of | 5                                | Tentative ID | MW                 | MolForm | CAS#        | Qual |
| 1       | Isopropyl Alcohol                |              | 60                 | C3H8O   | 000067-63-0 | 86   |
| 2       | Isopropyl Alcohol                |              | 60                 | C3H8O   | 000067-63-0 | 78   |
| 3       | Isopropyl Alcohol                |              | 60                 | C3H8O   | 000067-63-0 | 78   |
| 4       | Formic acid, 1-methylethyl ester |              | 88                 | C4H8O2  | 000625-55-8 | 40   |
| 5       | Propane, 2-ethoxy-               |              | 88                 | C5H12O  | 000625-54-7 | 40   |



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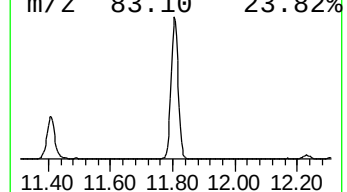
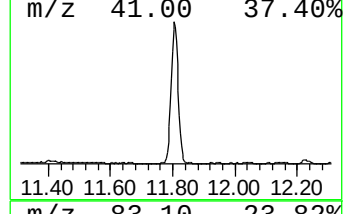
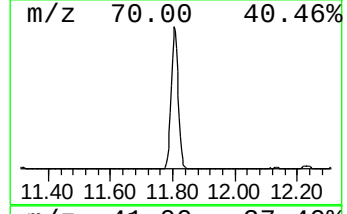
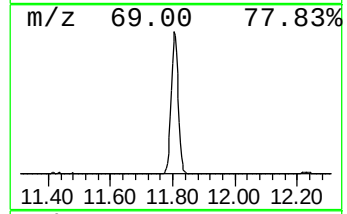
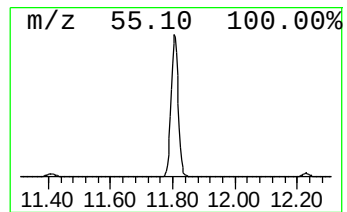
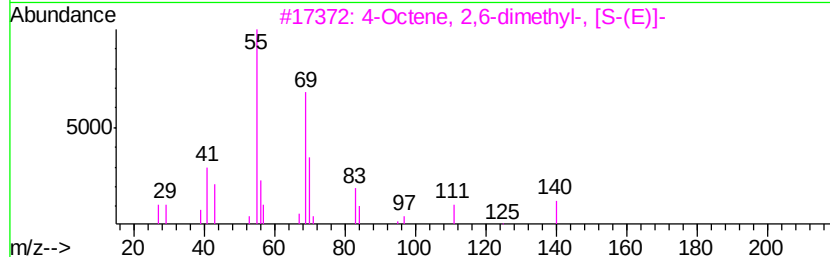
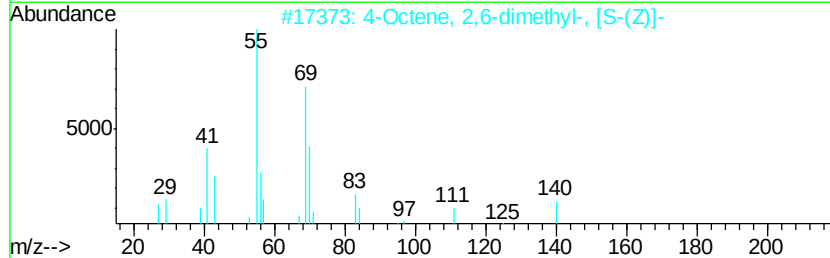
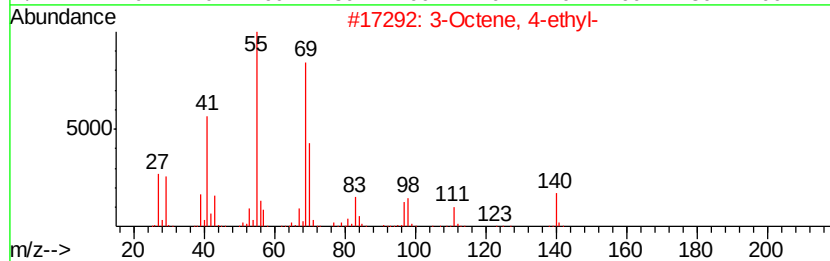
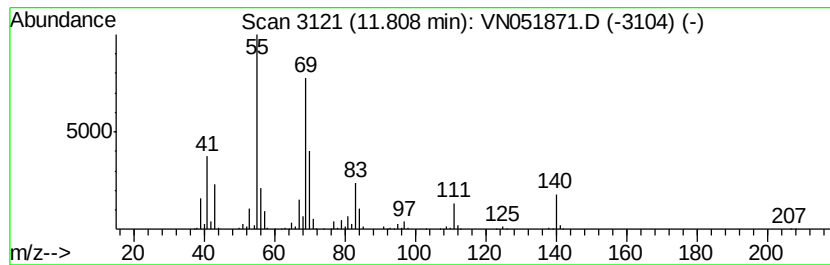
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 3-Octene, 4-ethyl- Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.81 | 21.98 ug/l | 1305040 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Octene, 4-ethyl-                | 140 | C10H20  | 053966-51-1 | 83   |
| 2    |    | 4-Octene, 2,6-dimethyl-, [S-(Z)]- | 140 | C10H20  | 062960-77-4 | 80   |
| 3    |    | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20  | 062960-76-3 | 80   |
| 4    |    | 2-Methyl-3-ethyl-2-heptene        | 140 | C10H20  | 019780-61-1 | 68   |
| 5    |    | 2-Octene, 4-ethyl-                | 140 | C10H20  | 053966-52-2 | 64   |



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
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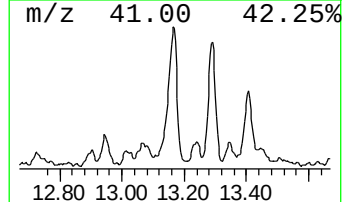
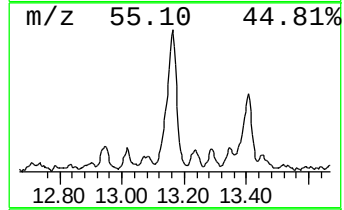
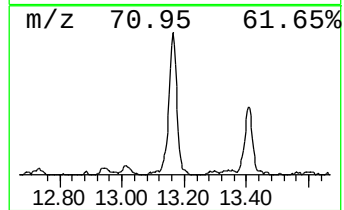
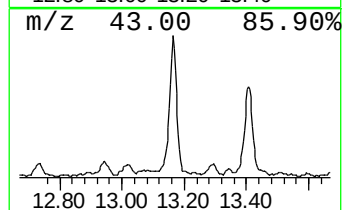
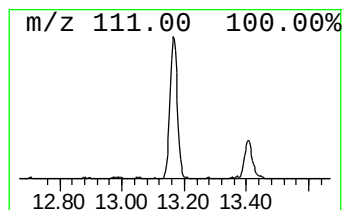
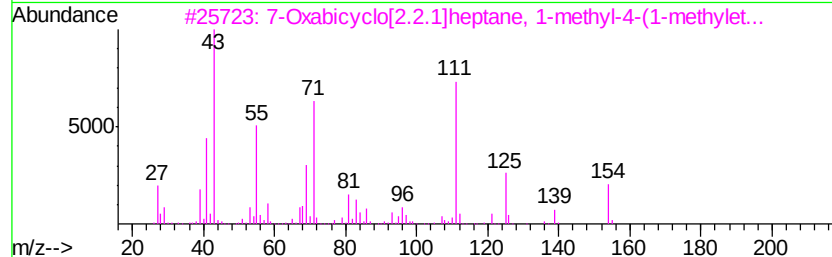
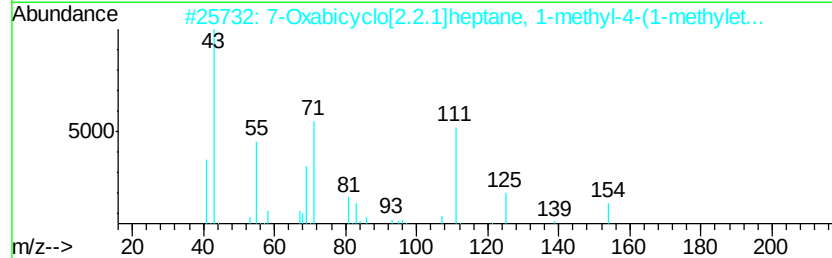
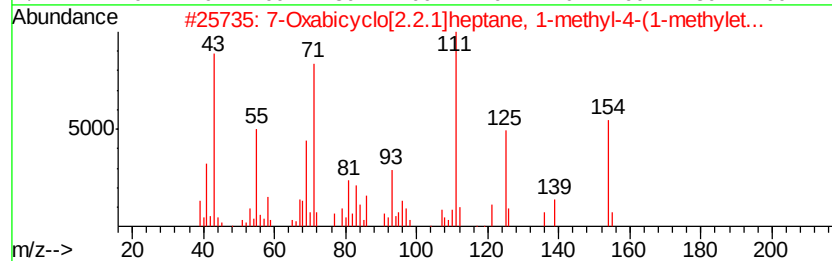
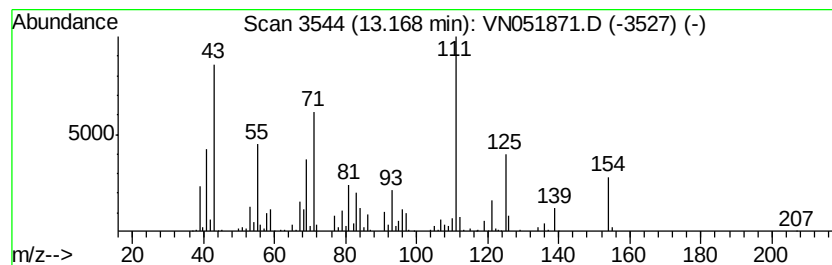
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 13.17 | 6.26 ug/l | 371631 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 93   |
| 2    |    | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 93   |
| 3    |    | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 87   |
| 4    |    | cis-1-Hydroxybicyclo[4.4.0]decane   | 154 | C10H18O | 003574-58-1 | 38   |
| 5    |    | Octahydronaphthalen-4a-ol           | 154 | C10H18O | 055693-34-0 | 38   |



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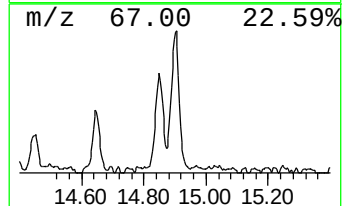
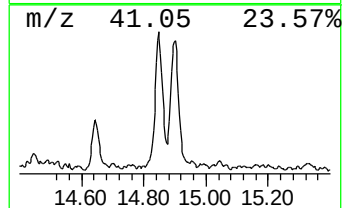
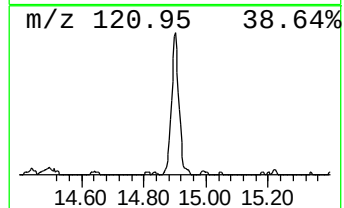
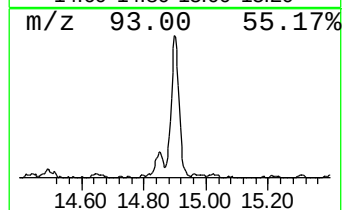
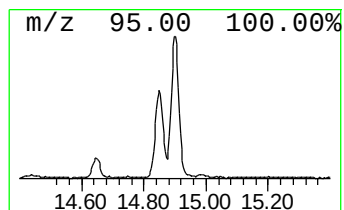
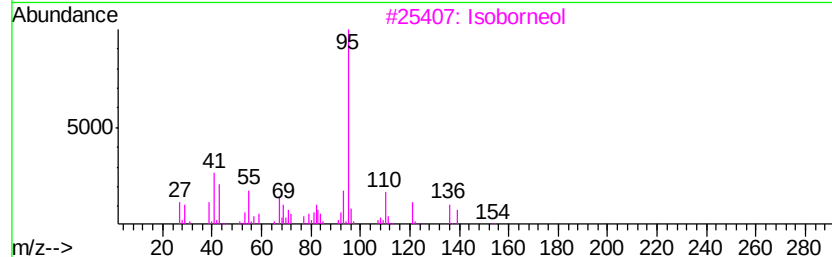
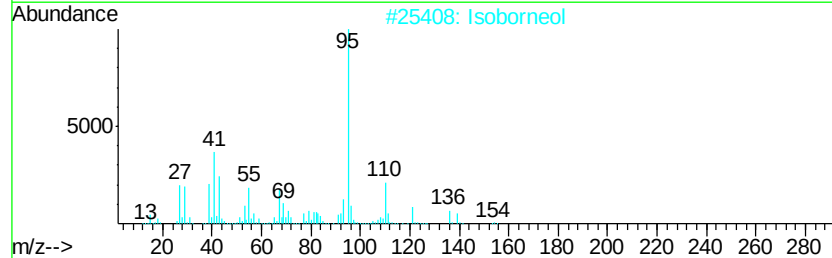
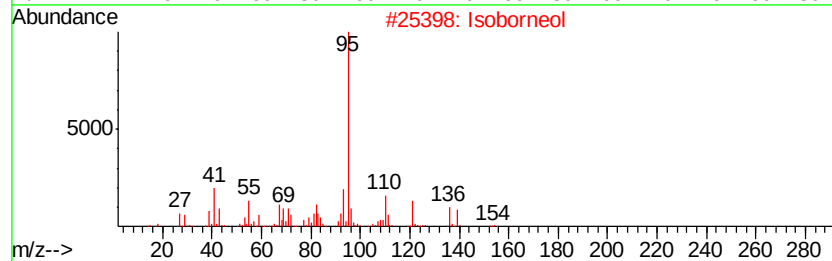
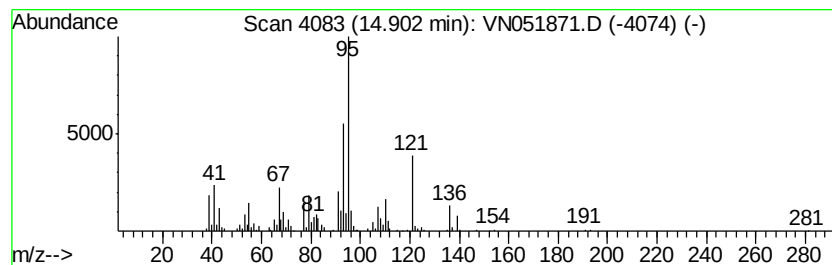
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Isoborneol Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 14.90 | 5.39 ug/l | 319871 | Chlorobenzene-d5 | 11.41 |

| Hit# of | 5          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------|--------------|-----|---------|-------------|------|
| 1       | Isoborneol |              | 154 | C10H18O | 000124-76-5 | 64   |
| 2       | Isoborneol |              | 154 | C10H18O | 000124-76-5 | 62   |
| 3       | Isoborneol |              | 154 | C10H18O | 000124-76-5 | 58   |
| 4       | Borneol    |              | 154 | C10H18O | 000507-70-0 | 53   |
| 5       | Isoborneol |              | 154 | C10H18O | 000124-76-5 | 52   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Isopropyl Alcohol    | 4.07  | 34.6    | ug/l  | 918977   | 1                     | 7.20  | 796481  | 30.0 |
| 3-Octene, 4-ethyl-   | 11.81 | 22.0    | ug/l  | 1305040  | 3                     | 11.41 | 1781540 | 30.0 |
| 7-Oxabicyclo[2.2.... | 13.17 | 6.3     | ug/l  | 371631   | 3                     | 11.41 | 1781540 | 30.0 |
| Isoborneol           | 14.90 | 5.4     | ug/l  | 319871   | 3                     | 11.41 | 1781540 | 30.0 |