

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
 Data File : VN083703.D  
 Acq On : 06 Sep 2024 18:00  
 Operator : JC\MD  
 Sample : P3884-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002-35TH-AVE(SEP)

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN083703.D\data.ms

| 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         | 2.289       | 50            | 57          | 78           | rBV      | 326545         | 1196518       | 83.52%          | 17.409%       |
| 2         | 4.430       | 409           | 421         | 433          | rBV      | 302156         | 917957        | 64.08%          | 13.356%       |
| 3         | 4.736       | 457           | 473         | 491          | rBV      | 94949          | 338803        | 23.65%          | 4.929%        |
| 4         | 7.488       | 931           | 941         | 950          | rBV      | 22831          | 57852         | 4.04%           | 0.842%        |
| 5         | 7.812       | 985           | 996         | 1007         | rBV3     | 90708          | 231939        | 16.19%          | 3.375%        |
| 6         | 8.577       | 1116          | 1126        | 1139         | rVB2     | 99220          | 221578        | 15.47%          | 3.224%        |
| 7         | 9.100       | 1206          | 1215        | 1224         | rBV2     | 204303         | 419541        | 29.29%          | 6.104%        |
| 8         | 10.447      | 1437          | 1444        | 1451         | rBV2     | 16738          | 30695         | 2.14%           | 0.447%        |
| 9         | 10.565      | 1455          | 1464        | 1469         | rVV      | 309640         | 573084        | 40.00%          | 8.338%        |
| 10        | 10.629      | 1469          | 1475        | 1485         | rVV      | 795903         | 1432583       | 100.00%         | 20.843%       |
| 11        | 11.865      | 1676          | 1685        | 1695         | rBV      | 280870         | 495470        | 34.59%          | 7.209%        |
| 12        | 12.247      | 1740          | 1750        | 1754         | rBV      | 17212          | 25701         | 1.79%           | 0.374%        |
| 13        | 12.565      | 1797          | 1804        | 1810         | rBV4     | 12441          | 22969         | 1.60%           | 0.334%        |
| 14        | 12.847      | 1845          | 1852        | 1862         | rVB      | 218123         | 378264        | 26.40%          | 5.504%        |
| 15        | 13.370      | 1936          | 1941        | 1947         | rVV2     | 33801          | 58384         | 4.08%           | 0.849%        |
| 16        | 13.441      | 1947          | 1953        | 1958         | rVV2     | 29967          | 48016         | 3.35%           | 0.699%        |
| 17        | 13.506      | 1958          | 1964        | 1965         | rVV4     | 10399          | 15256         | 1.06%           | 0.222%        |
| 18        | 13.570      | 1968          | 1975        | 1985         | rVB4     | 49128          | 126503        | 8.83%           | 1.841%        |
| 19        | 13.723      | 1993          | 2001        | 2006         | rBV3     | 47225          | 90484         | 6.32%           | 1.316%        |
| 20        | 13.782      | 2006          | 2011        | 2013         | rVV3     | 35058          | 64466         | 4.50%           | 0.938%        |
| 21        | 13.817      | 2014          | 2017        | 2023         | rVV5     | 34331          | 83563         | 5.83%           | 1.216%        |
| 22        | 13.876      | 2023          | 2027        | 2034         | rVB2     | 24775          | 43479         | 3.04%           | 0.633%        |

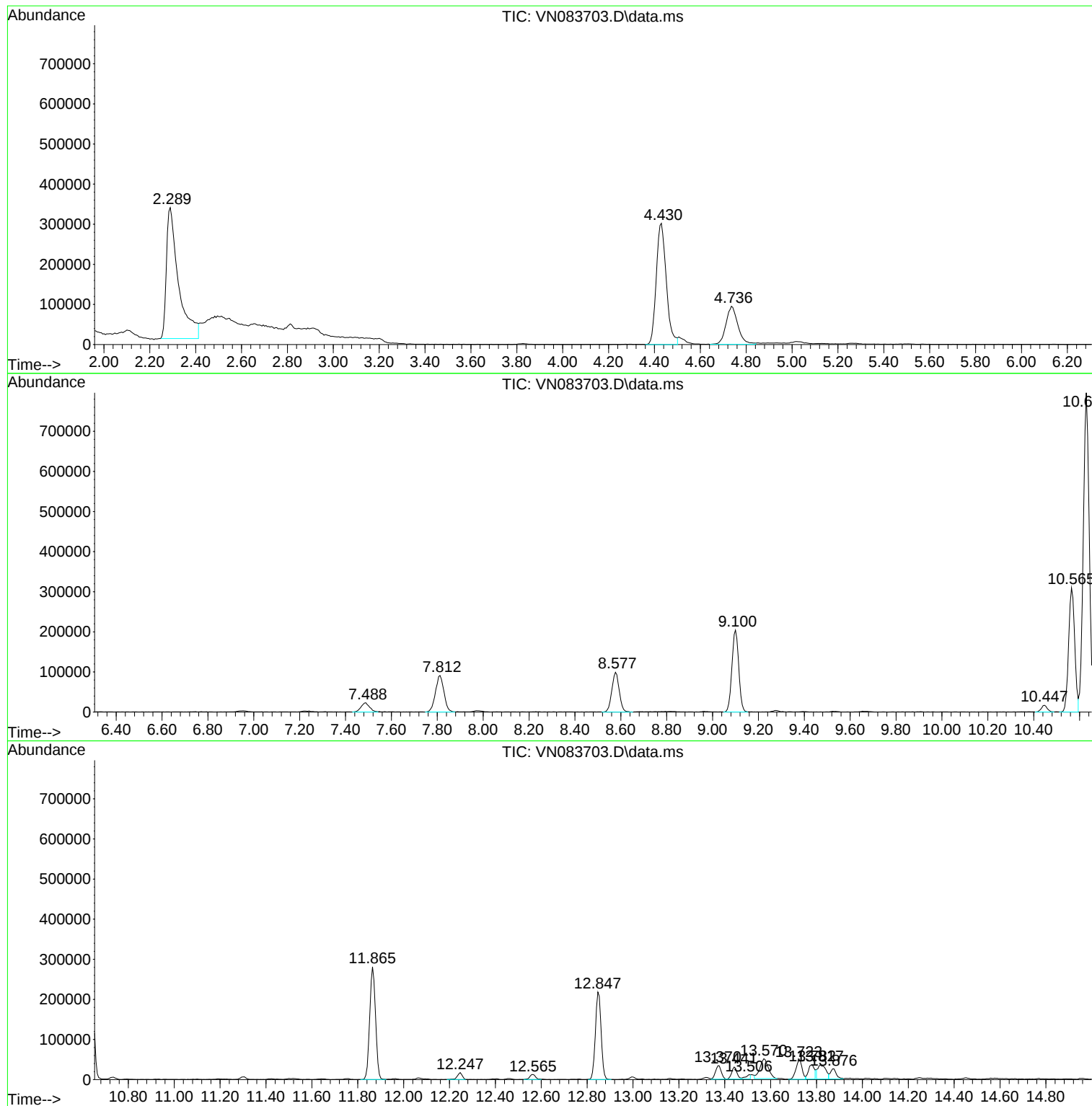
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
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Operator : JC\MD  
Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
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Operator : JC\MD  
Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

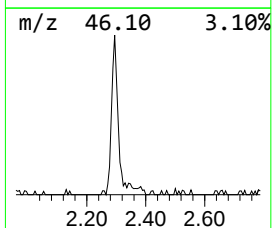
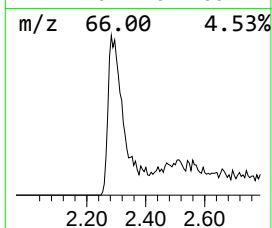
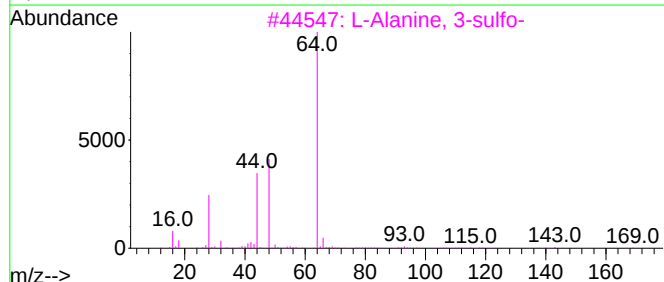
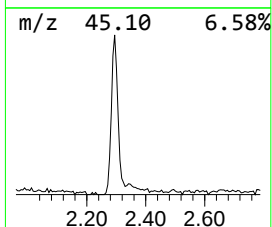
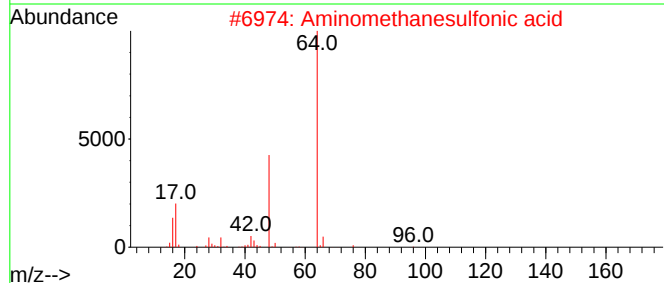
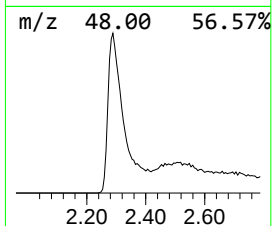
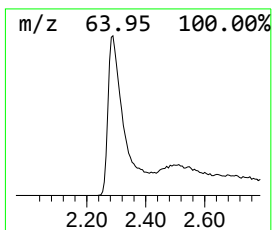
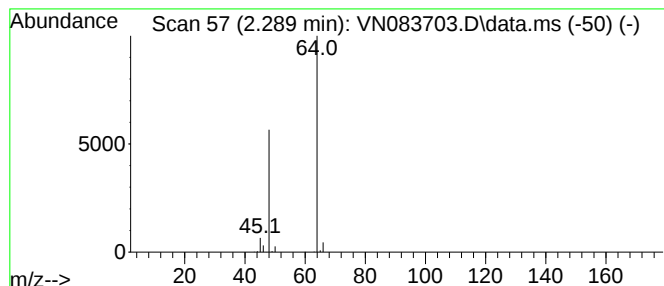
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 2.289 | 154.76 ug/l | 1196520 | Bromochloromethane | 7.812 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------|-----|----------|-------------|------|
| 1    |    |   | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 83   |
| 2    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 74   |
| 3    |    |   | L-Alanine, 3-sulfo-       | 169 | C3H7NO5S | 000498-40-8 | 9    |
| 4    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |
| 5    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |



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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

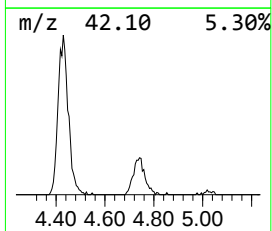
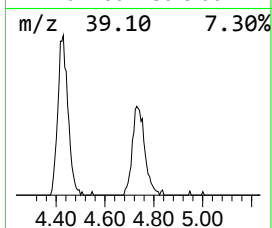
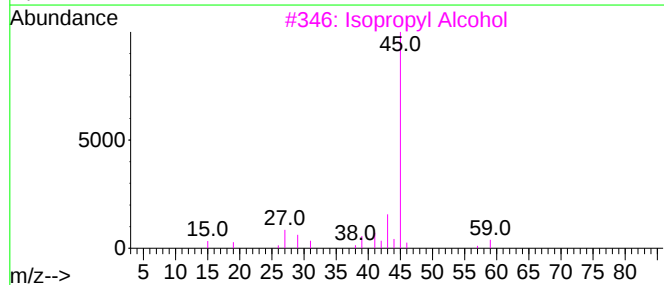
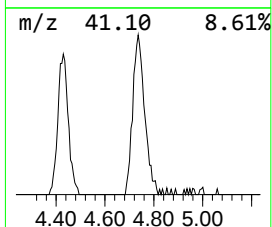
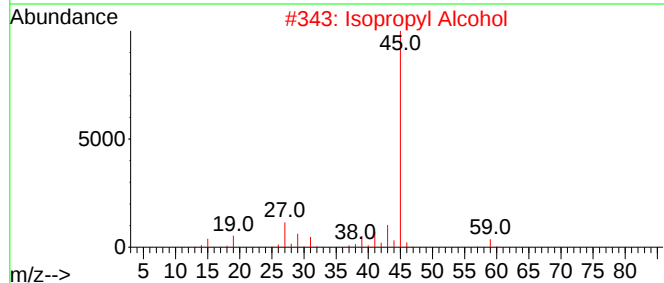
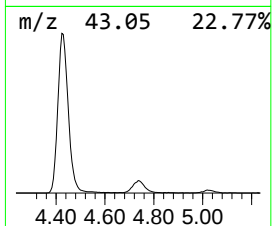
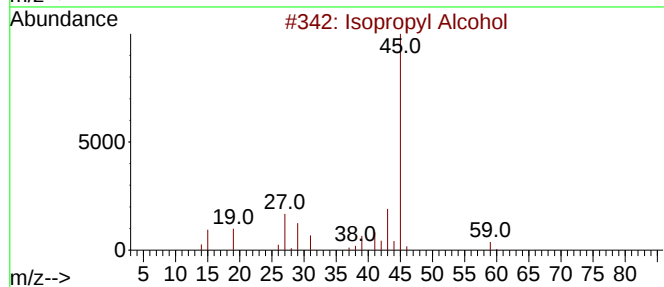
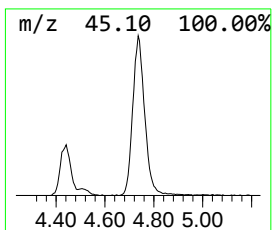
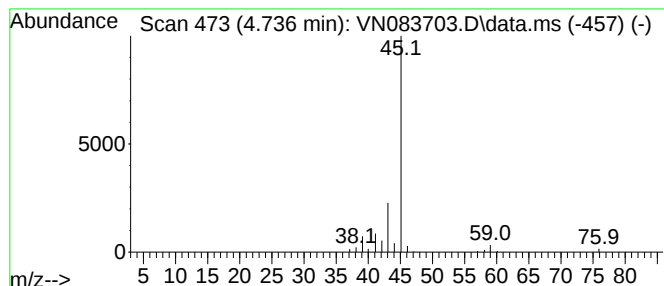
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Isopropyl Alcohol Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 4.736 | 43.82 ug/l | 338803 | Bromochloromethane | 7.812 |

| Hit# | of | 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 78   |
| 2    |    |   | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    |   | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 56   |
| 4    |    |   | 2-Pentanol         | 88 | C5H12O  | 006032-29-7 | 9    |
| 5    |    |   | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
Data File : VN083703.D  
Acq On : 06 Sep 2024 18:00  
Operator : JC\MD  
Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

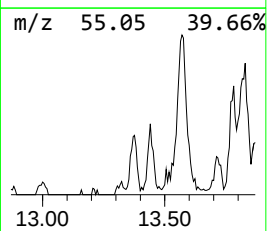
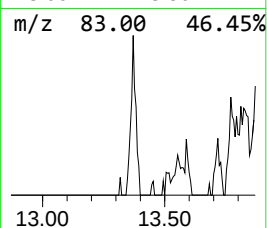
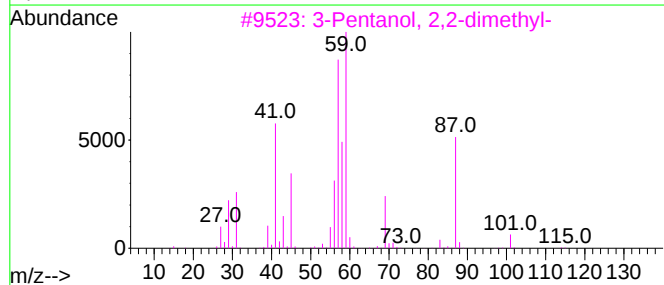
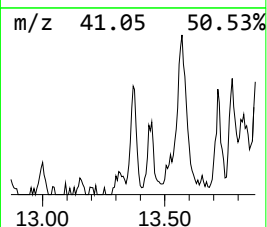
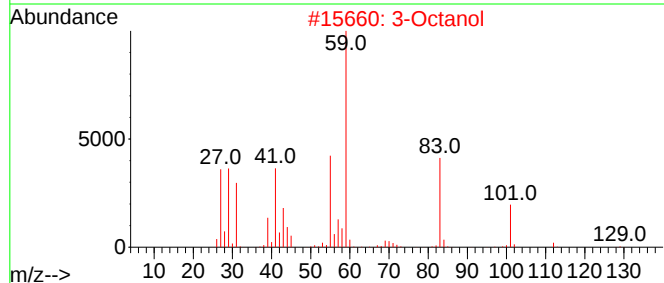
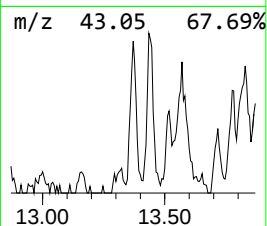
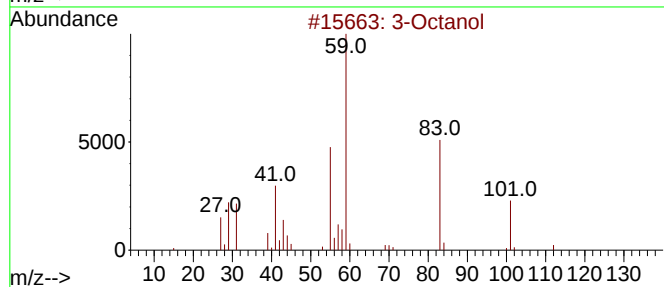
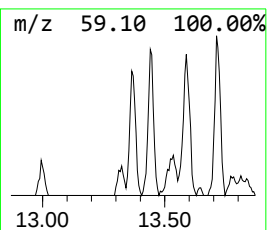
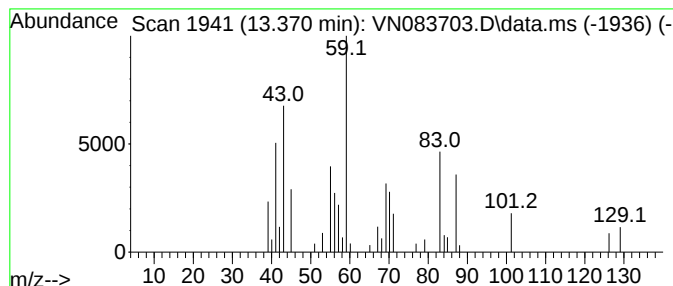
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown13.370 Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 13.370 | 3.54 ug/l | 58384 | Chlorobenzene-d5 | 11.865 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | 3-Octanol                      | 130 | C8H18O  | 000589-98-0 | 43   |
| 2    |    |   | 3-Octanol                      | 130 | C8H18O  | 000589-98-0 | 43   |
| 3    |    |   | 3-Pentanol, 2,2-dimethyl-      | 116 | C7H16O  | 003970-62-5 | 40   |
| 4    |    |   | Hexylene glycol                | 118 | C6H14O2 | 000107-41-5 | 38   |
| 5    |    |   | 5-Ethyl-3-methylhept-1-en-4-ol | 156 | C10H20O | 286424-80-4 | 38   |



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Data File : VN083703.D  
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Operator : JC\MD  
Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

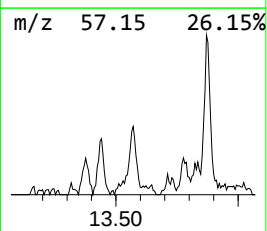
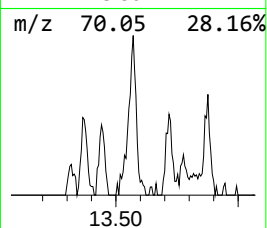
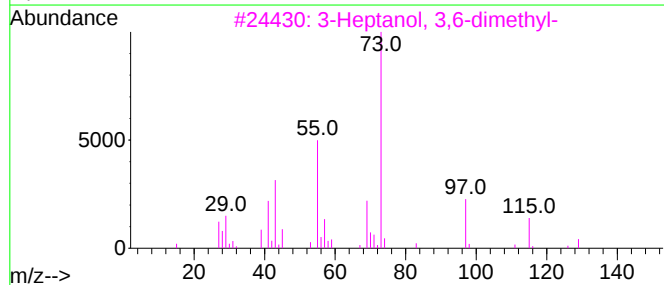
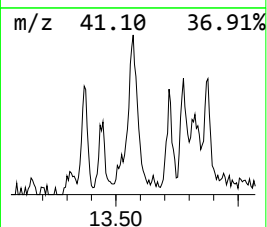
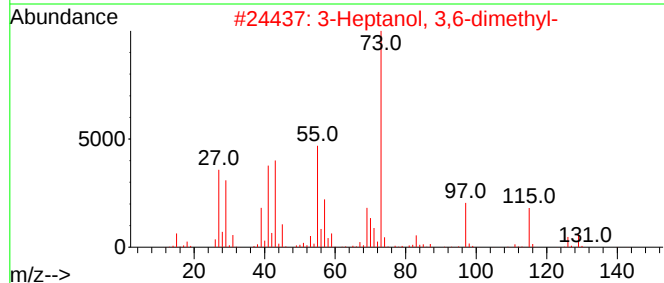
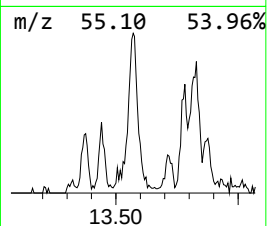
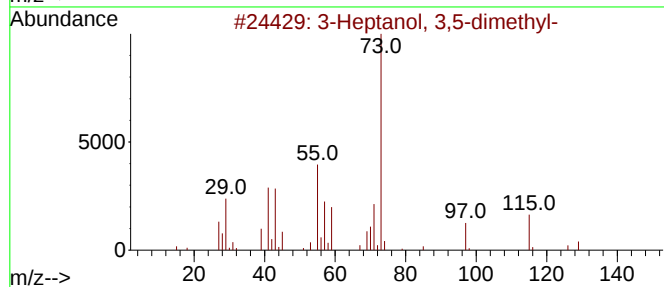
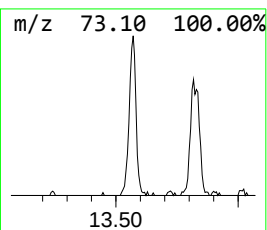
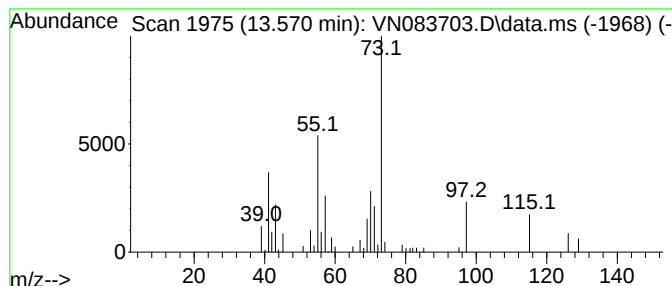
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 3-Heptanol, 3,5-dimethyl- Concentration Rank 3

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 13.570 | 7.66 ug/l | 126503 | Chlorobenzene-d5 | 11.865 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm   | CAS#         | Qual |
|------|----|---|---------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Heptanol, 3,5-dimethyl-       | 144 | C9H20O    | 019549-74-7  | 59   |
| 2    |    |   | 3-Heptanol, 3,6-dimethyl-       | 144 | C9H20O    | 001573-28-0  | 50   |
| 3    |    |   | 3-Heptanol, 3,6-dimethyl-       | 144 | C9H20O    | 001573-28-0  | 47   |
| 4    |    |   | Sodium N-methyl dithiocarbamate | 129 | C2H4NNaS2 | 1000292-95-8 | 43   |
| 5    |    |   | 3-Octanol, 3-methyl-            | 144 | C9H20O    | 005340-36-3  | 17   |



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Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

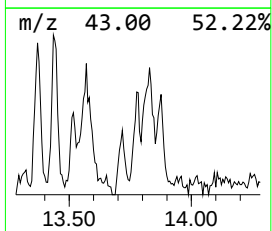
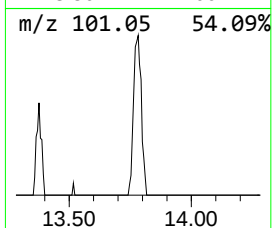
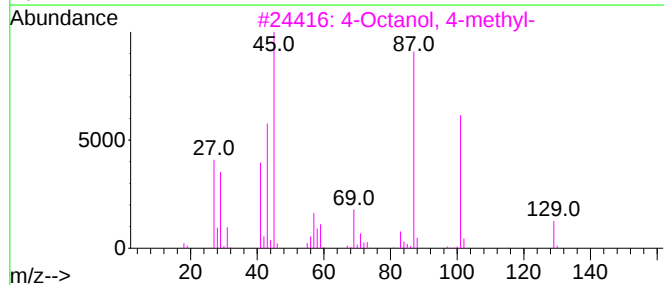
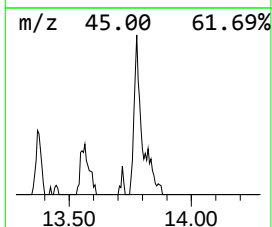
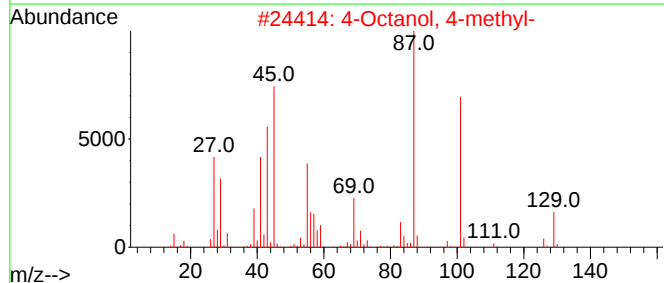
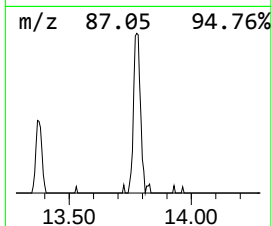
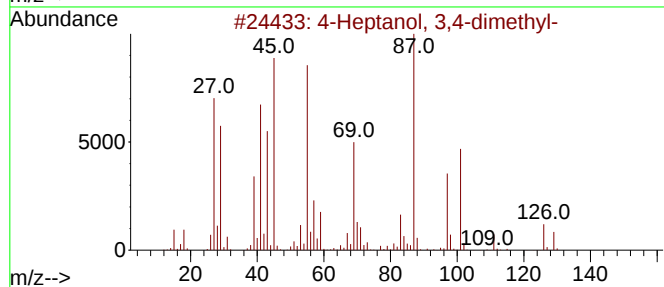
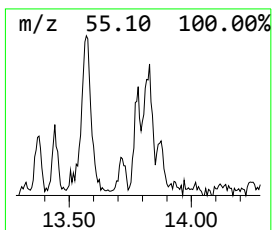
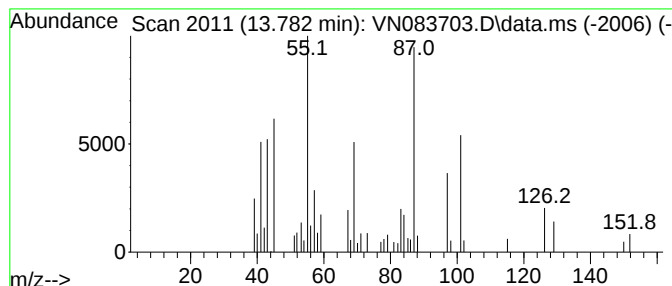
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 4-Heptanol, 3,4-dimethyl- Concentration Rank 5

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 13.782 | 3.90 ug/l | 64466 | Chlorobenzene-d5 | 11.865 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4-Heptanol, 3,4-dimethyl-           | 144 | C9H20O   | 005406-10-0  | 59   |
| 2    |    |   | 4-Octanol, 4-methyl-                | 144 | C9H20O   | 023418-37-3  | 53   |
| 3    |    |   | 4-Octanol, 4-methyl-                | 144 | C9H20O   | 023418-37-3  | 47   |
| 4    |    |   | 4-Heptanol, 2,4-dimethyl-           | 144 | C9H20O   | 019549-77-0  | 47   |
| 5    |    |   | 2-[2-[2-[2-(2-Butoxyethoxy)ethox... | 336 | C16H32O7 | 1000351-94-0 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090624\  
Data File : VN083703.D  
Acq On : 06 Sep 2024 18:00  
Operator : JC\MD  
Sample : P3884-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002-35TH-AVE(SEP)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Sulfur dioxide     | 2.289  | 154.8   | ug/l  | 1196520  | 1                     | 7.812  | 231939 | 30.0 |
| Isopropyl Alcohol  | 4.736  | 43.8    | ug/l  | 338803   | 1                     | 7.812  | 231939 | 30.0 |
| unknown13.370      | 13.370 | 3.5     | ug/l  | 58384    | 3                     | 11.865 | 495470 | 30.0 |
| 3-Heptanol, 3,5... | 13.570 | 7.7     | ug/l  | 126503   | 3                     | 11.865 | 495470 | 30.0 |
| 4-Heptanol, 3,4... | 13.782 | 3.9     | ug/l  | 64466    | 3                     | 11.865 | 495470 | 30.0 |