

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\  
 Data File : VN058345.D  
 Acq On : 24 Sep 2019 14:57  
 Operator : JC/SP  
 Sample : K4839-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PT-VOA-WP

## 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\624N092419W.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         | 2.169       | 113           | 123         | 139          | rVB      | 153250         | 230855        | 2.43%           | 0.267%        |
| 2         | 2.686       | 273           | 284         | 301          | rBV      | 134988         | 258396        | 2.72%           | 0.299%        |
| 3         | 3.799       | 616           | 630         | 655          | rBV2     | 39973          | 106588        | 1.12%           | 0.123%        |
| 4         | 4.529       | 835           | 857         | 896          | rBV2     | 438067         | 1374963       | 14.48%          | 1.589%        |
| 5         | 5.018       | 978           | 1009        | 1055         | rBV      | 1324138        | 4895624       | 51.57%          | 5.659%        |
| 6         | 5.831       | 1239          | 1262        | 1286         | rBV2     | 111044         | 354435        | 3.73%           | 0.410%        |
| 7         | 6.808       | 1544          | 1566        | 1597         | rBV      | 1152354        | 3351211       | 35.30%          | 3.874%        |
| 8         | 7.178       | 1660          | 1681        | 1706         | rBV3     | 213932         | 577927        | 6.09%           | 0.668%        |
| 9         | 7.355       | 1716          | 1736        | 1765         | rBV      | 492395         | 1298178       | 13.68%          | 1.501%        |
| 10        | 7.760       | 1836          | 1862        | 1889         | rBV      | 838628         | 2137098       | 22.51%          | 2.470%        |
| 11        | 8.014       | 1922          | 1941        | 1957         | rBV      | 242213         | 567183        | 5.97%           | 0.656%        |
| 12        | 8.111       | 1957          | 1971        | 1989         | rVB      | 319603         | 727214        | 7.66%           | 0.841%        |
| 13        | 8.574       | 2099          | 2115        | 2139         | rBV      | 536840         | 1122422       | 11.82%          | 1.298%        |
| 14        | 8.824       | 2177          | 2193        | 2221         | rBV      | 1130345        | 2310116       | 24.33%          | 2.670%        |
| 15        | 9.111       | 2265          | 2282        | 2296         | rBV2     | 376417         | 779547        | 8.21%           | 0.901%        |
| 16        | 9.201       | 2296          | 2310        | 2329         | rVB      | 284975         | 578607        | 6.10%           | 0.669%        |
| 17        | 9.448       | 2375          | 2387        | 2407         | rBV2     | 84410          | 159986        | 1.69%           | 0.185%        |
| 18        | 9.834       | 2491          | 2507        | 2526         | rBV      | 1328883        | 2435626       | 25.66%          | 2.816%        |
| 19        | 10.085      | 2571          | 2585        | 2595         | rBV      | 864374         | 1557618       | 16.41%          | 1.801%        |
| 20        | 10.152      | 2595          | 2606        | 2635         | rVB      | 937059         | 1739933       | 18.33%          | 2.011%        |
| 21        | 10.377      | 2661          | 2676        | 2693         | rBV      | 235093         | 424252        | 4.47%           | 0.490%        |
| 22        | 10.561      | 2719          | 2733        | 2743         | rBV      | 599487         | 1088004       | 11.46%          | 1.258%        |
| 23        | 10.628      | 2743          | 2754        | 2779         | rVB      | 1761250        | 3144664       | 33.13%          | 3.635%        |
| 24        | 10.750      | 2779          | 2792        | 2815         | rBV      | 1469096        | 2436876       | 25.67%          | 2.817%        |
| 25        | 11.004      | 2855          | 2871        | 2888         | rBV      | 271357         | 489398        | 5.16%           | 0.566%        |
| 26        | 11.432      | 2981          | 3004        | 3016         | rBV2     | 2230128        | 5081486       | 53.53%          | 5.874%        |
| 27        | 11.512      | 3016          | 3029        | 3048         | rVV      | 4868213        | 8330690       | 87.76%          | 9.630%        |
| 28        | 11.622      | 3048          | 3063        | 3090         | rVB      | 3314538        | 6499447       | 68.47%          | 7.513%        |
| 29        | 11.963      | 3151          | 3169        | 3192         | rBV3     | 4615294        | 9493058       | 100.00%         | 10.974%       |
| 30        | 12.130      | 3207          | 3221        | 3240         | rBV      | 651605         | 1119668       | 11.79%          | 1.294%        |
| 31        | 12.406      | 3294          | 3307        | 3325         | rBV      | 639912         | 1062977       | 11.20%          | 1.229%        |
| 32        | 12.509      | 3325          | 3339        | 3358         | rVB      | 966309         | 1664530       | 17.53%          | 1.924%        |
| 33        | 12.738      | 3396          | 3410        | 3428         | rBV      | 3937586        | 6285132       | 66.21%          | 7.266%        |
| 34        | 13.046      | 3492          | 3506        | 3533         | rVB      | 1771871        | 2759133       | 29.06%          | 3.190%        |

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Instrument :  
MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

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\624N092419W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

|    |        |      |      |      |     |         |         |        |        |
|----|--------|------|------|------|-----|---------|---------|--------|--------|
| 35 | 13.371 | 3592 | 3607 | 3633 | rBV | 2911909 | 4783962 | 50.39% | 5.530% |
| 36 | 13.660 | 3681 | 3697 | 3714 | rBV | 1503502 | 2489256 | 26.22% | 2.878% |
| 37 | 14.917 | 4068 | 4088 | 4106 | rBV | 1699204 | 2789477 | 29.38% | 3.225% |

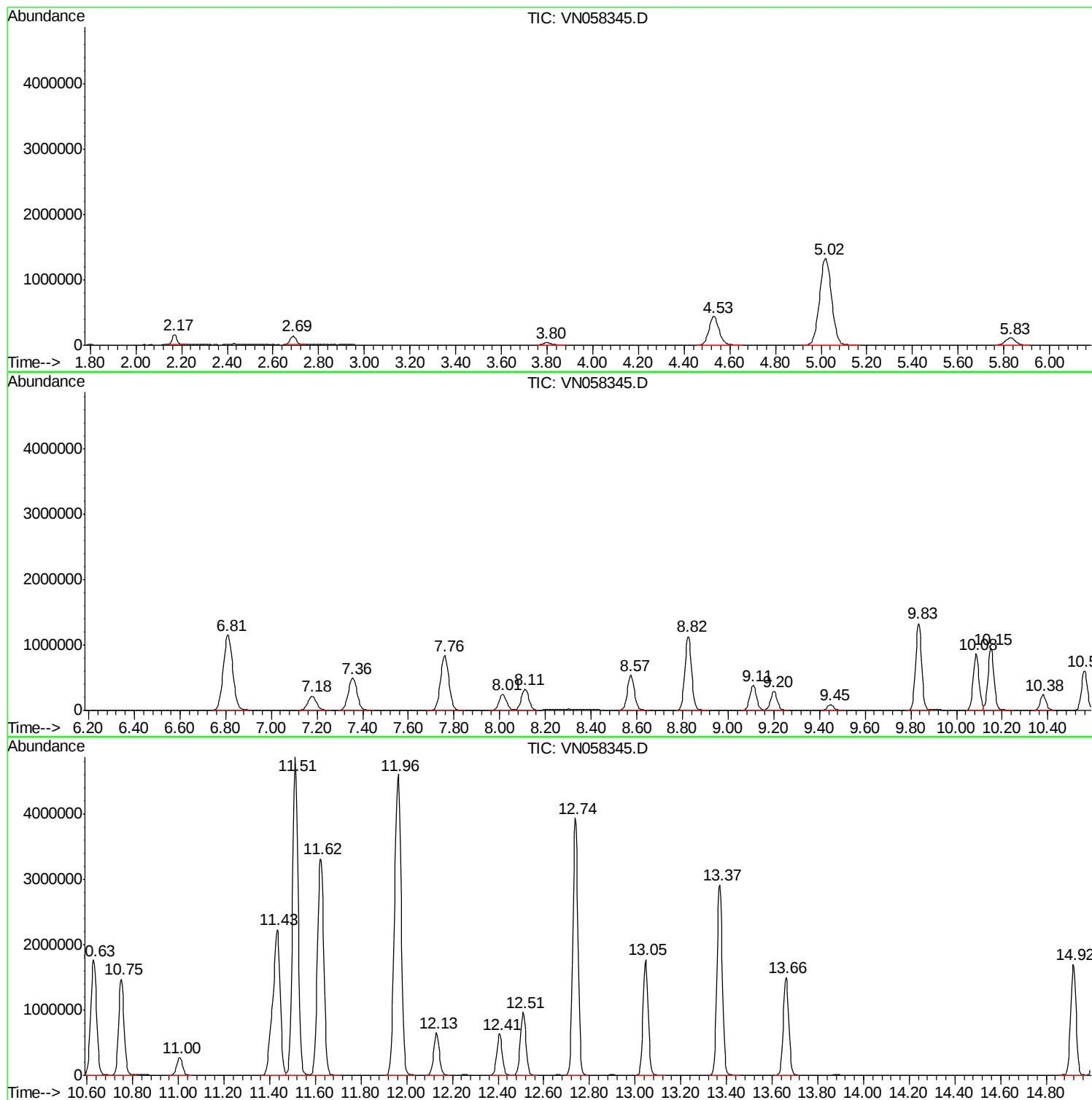
Sum of corrected areas: 86505537

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MSVOA\_N  
ClientSampleId :  
PT-VOA-WP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



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Sample : K4839-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampled :  
PT-VOA-WP

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

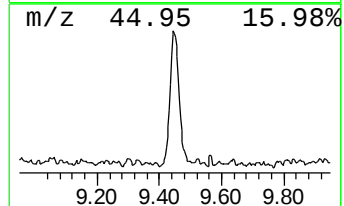
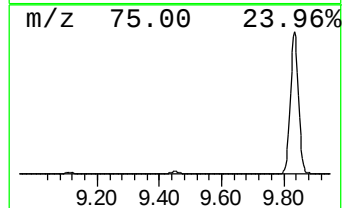
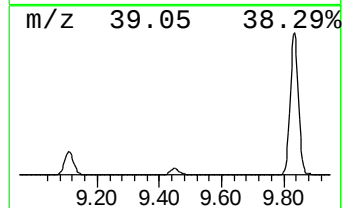
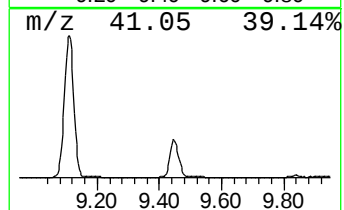
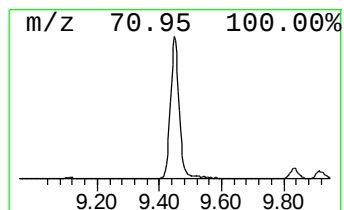
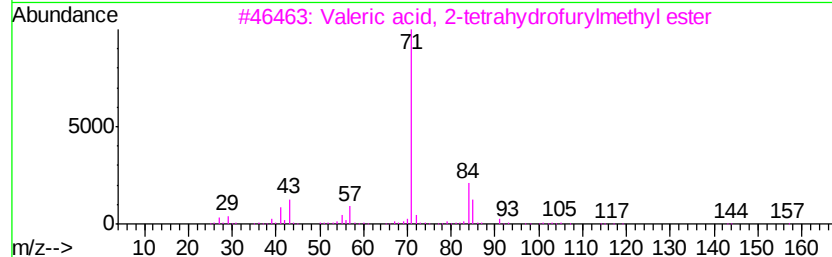
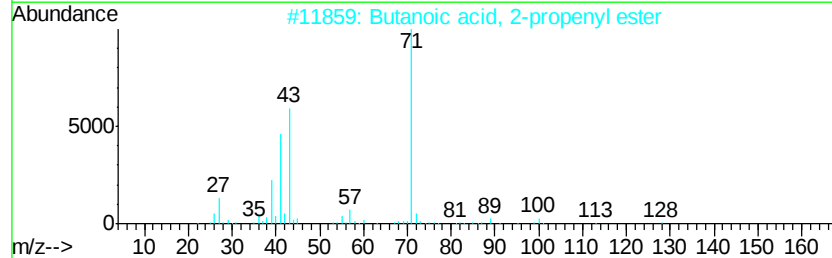
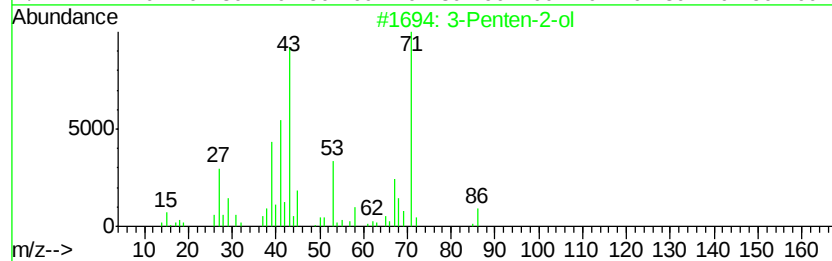
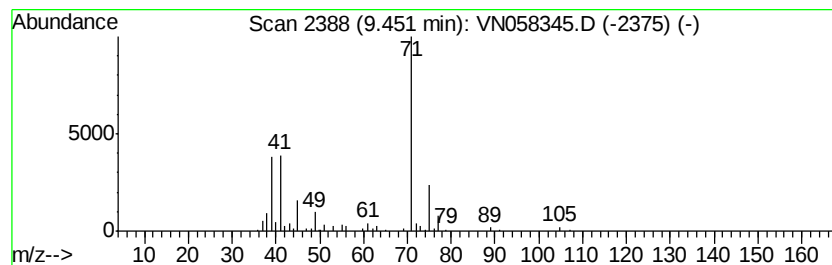
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown9.45 Concentration Rank 1

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 9.45 | 4.28 ug/l | 159986 | 1,4-Difluorobenzene | 8.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 3-Penten-2-ol                       | 86  | C5H10O   | 001569-50-2 | 38   |
| 2    |    | Butanoic acid, 2-propenyl ester     | 128 | C7H12O2  | 002051-78-7 | 17   |
| 3    |    | Valeric acid, 2-tetrahydrofurylm... | 186 | C10H18O3 | 005451-86-5 | 17   |
| 4    |    | 2-Hexene, 1-methoxy-, (E)-          | 114 | C7H14O   | 056052-83-6 | 9    |
| 5    |    | 1,2,3-Thiadiazole, 5-methyl-        | 100 | C3H4N2S  | 050406-54-7 | 9    |



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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N092419W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                  |      |         |       |          | #                     | RT   | Resp    | Conc |
| unknown9.45      | 9.45 | 4.3     | ug/l  | 159986   | 2                     | 8.57 | 1122420 | 30.0 |