LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Integration Parameters: LSCINT.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_U\Method\SFAMULM112921WMA.M
Title : VOC Analysis

Signal : TIC: VU046273.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.604 | 75 | 82 | 99 | rVB | 96362 | 106454 | 5.69% | 0.397% |
| 2 | 1.919 | 171 | 180 | 191 | rVB | 74256 | 94734 | 5.06% | 0.353% |
| 3 | 2.575 | 372 | 384 | 398 | rBV | 162204 | 268215 | 14.33% | 1.000% |
| 4 | 2.662 | 403 | 411 | 438 | rVB | 9831 | 30317 | 1.62% | 0.113% |
| 5 | 3.054 | 522 | 533 | 544 | rVB | 6362 | 11386 | 0.61% | 0.042% |
| 6 | 3.189 | 560 | 575 | 585 | rBV3 | 4659 | 10721 | 0.57% | 0.040% |
| 7 | 4.642 | 1010 | 1027 | 1056 | rBV | 76995 | 242115 | 12.94% | 0.902% |
| 8 | 5.070 | 1144 | 1160 | 1183 | rBV2 | 141734 | 327728 | 17.52% | 1.221% |
| 9 | 5.729 | 1343 | 1365 | 1392 | rBV2 | 297046 | 829094 | 44.31% | 3.090% |
| 10 | 6.253 | 1514 | 1528 | 1546 | rBV | 293758 | 548263 | 29.30% | 2.043% |
| 11 | 6.530 | 1601 | 1614 | 1629 | rVB7 | 6820 | 16704 | 0.89% | 0.062% |
| 12 | 6.694 | 1651 | 1665 | 1681 | rBV | 191363 | 365851 | 19.55% | 1.363% |
| 13 | 7.568 | 1924 | 1937 | 1952 | rVB | 114320 | 196553 | 10.50% | 0.732% |
| 14 | 7.899 | 2014 | 2040 | 2052 | rBV | 375324 | 654186 | 34.96% | 2.438% |
| 15 | 7.970 | 2052 | 2062 | 2079 | rVB | 156676 | 271174 | 14.49% | 1.011% |
| 16 | 8.131 | 2104 | 2112 | 2118 | rVV3 | 8369 | 13378 | 0.71% | 0.050% |
| 17 | 8.182 | 2118 | 2128 | 2140 | rVV | 79352 | 131784 | 7.04% | 0.491% |
| 18 | 8.636 | 2256 | 2269 | 2297 | rBV | 288264 | 512760 | 27.40% | 1.911% |
| 19 | 8.758 | 2298 | 2307 | 2314 | rBV5 | 10991 | 21785 | 1.16% | 0.081% |
| 20 | 8.867 | 2333 | 2341 | 2349 | rVB3 | 9966 | 16304 | 0.87% | 0.061% |
| 21 | 8.925 | 2349 | 2359 | 2367 | rBV4 | 14117 | 26860 | 1.44% | 0.100% |
| 22 | 9.063 | 2387 | 2402 | 2411 | rBV5 | 6446 | 16583 | 0.89% | 0.062% |
| 23 | 9.124 | 2412 | 2421 | 2427 | rVV4 | 12741 | 23419 | 1.25% | 0.087% |
| 24 | 9.169 | 2428 | 2435 | 2441 | rVV6 | 19509 | 36414 | 1.95% | 0.136% |
| 25 | 9.214 | 2442 | 2449 | 2461 | rVB3 | 51400 | 87989 | 4.70% | 0.328% |
| 26 | 9.337 | 2476 | 2487 | 2500 | rBV | 52425 | 89369 | 4.78% | 0.333% |
| 27 | 9.420 | 2500 | 2513 | 2534 | rVV | 432709 | 735673 | 39.32% | 2.742% |
| 28 | 9.571 | 2548 | 2560 | 2573 | rBV | 383075 | 624207 | 33.36% | 2.326% |
| 29 | 9.693 | 2585 | 2598 | 2608 | rBV | 1110103 | 1871059 | 100.00% | 6.973% |
| 30 | 9.745 | 2609 | 2614 | 2640 | rVB2 | 189850 | 334794 | 17.89% | 1.248% |
| 31 | 9.886 | 2647 | 2658 | 2670 | rBV7 | 7651 | 16729 | 0.89% | 0.062% |
| 32 | 9.954 | 2670 | 2679 | 2688 | rBV4 | 8417 | 16910 | 0.90% | 0.063% |
| 33 | 10.021 | 2688 | 2700 | 2713 | rBV5 | 69747 | 167219 | 8.94% | 0.623% |
| 34 | 10.102 | 2714 | 2725 | 2741 | rVV | 417452 | 772523 | 41.29% | 2.879% |
| 35 | 10.169 | 2742 | 2746 | 2754 | rVB2 | 29316 | 39113 | 2.09% | 0.146% |
| 36 | 10.253 | 2755 | 2772 | 2785 | rBV4 | 135422 | 277035 | 14.81% | 1.032% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
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Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Integration Parameters: LSCINT.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_U\Method\SFAMULM112921WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 10.317 | 2786 | 2792 | 2795 | rVV | 19136 | 24950 | 1.33% | 0.093% |
| 38 | 10.356 | 2795 | 2804 | 2812 | rVV4 | 106985 | 216136 | 11.55% | 0.805% |
| 39 | 10.394 | 2813 | 2816 | 2828 | rVB2 | 75009 | 103161 | 5.51% | 0.384% |
| 40 | 10.484 | 2829 | 2844 | 2852 | rBV2 | 67485 | 133384 | 7.13% | 0.497% |
| 41 | 10.558 | 2853 | 2867 | 2875 | rBV4 | 92233 | 201374 | 10.76% | 0.750% |
| 42 | 10.626 | 2876 | 2888 | 2892 | rVV2 | 139881 | 259689 | 13.88% | 0.968% |
| 43 | 10.655 | 2893 | 2897 | 2914 | rVB | 138611 | 206371 | 11.03% | 0.769% |
| 44 | 10.758 | 2919 | 2929 | 2939 | rVV | 431298 | 702754 | 37.56% | 2.619% |
| 45 | 10.809 | 2939 | 2945 | 2959 | rVB5 | 64458 | 124381 | 6.65% | 0.464% |
| 46 | 10.906 | 2967 | 2975 | 2983 | rBV | 88194 | 133242 | 7.12% | 0.497% |
| 47 | 10.957 | 2985 | 2991 | 2995 | rVV4 | 32944 | 49759 | 2.66% | 0.185% |
| 48 | 10.999 | 2995 | 3004 | 3018 | rVV | 292219 | 701448 | 37.49% | 2.614% |
| 49 | 11.115 | 3019 | 3040 | 3056 | rVB3 | 797778 | 1747052 | 93.37% | 6.511% |
| 50 | 11.243 | 3075 | 3080 | 3086 | rBV2 | 17156 | 22364 | 1.20% | 0.083% |
| 51 | 11.295 | 3086 | 3096 | 3113 | rVV3 | 160742 | 409316 | 21.88% | 1.525% |
| 52 | 11.378 | 3114 | 3122 | 3127 | rVV3 | 63353 | 94655 | 5.06% | 0.353% |
| 53 | 11.417 | 3127 | 3134 | 3141 | rVV | 192692 | 275022 | 14.70% | 1.025% |
| 54 | 11.468 | 3141 | 3150 | 3174 | rVB | 771089 | 1368172 | 73.12% | 5.099% |
| 55 | 11.574 | 3175 | 3183 | 3189 | rBV | 71103 | 121710 | 6.50% | 0.454% |
| 56 | 11.642 | 3199 | 3204 | 3214 | rVB4 | 75385 | 113212 | 6.05% | 0.422% |
| 57 | 11.709 | 3215 | 3225 | 3232 | rBV4 | 156230 | 291477 | 15.58% | 1.086% |
| 58 | 11.812 | 3247 | 3257 | 3270 | rVB2 | 518121 | 915609 | 48.94% | 3.412% |
| 59 | 11.899 | 3270 | 3284 | 3295 | rBV3 | 228856 | 571193 | 30.53% | 2.129% |
| 60 | 12.002 | 3311 | 3316 | 3325 | rVB3 | 105881 | 143221 | 7.65% | 0.534% |
| 61 | 12.099 | 3338 | 3346 | 3350 | rBV2 | 120773 | 187261 | 10.01% | 0.698% |
| 62 | 12.192 | 3364 | 3375 | 3391 | rVB3 | 652183 | 1238791 | 66.21% | 4.617% |
| 63 | 12.327 | 3407 | 3417 | 3427 | rVB | 605268 | 865328 | 46.25% | 3.225% |
| 64 | 12.381 | 3427 | 3434 | 3449 | rVB4 | 100351 | 221429 | 11.83% | 0.825% |
| 65 | 12.468 | 3453 | 3461 | 3464 | rBV | 76457 | 105055 | 5.61% | 0.392% |
| 66 | 12.497 | 3466 | 3470 | 3477 | rVB2 | 79709 | 93907 | 5.02% | 0.350% |
| 67 | 12.571 | 3488 | 3493 | 3501 | rVB | 81818 | 108002 | 5.77% | 0.402% |
| 68 | 12.671 | 3518 | 3524 | 3529 | rBV4 | 26995 | 43180 | 2.31% | 0.161% |
| 69 | 12.931 | 3596 | 3605 | 3611 | rBV4 | 70578 | 129340 | 6.91% | 0.482% |
| 70 | 13.028 | 3626 | 3635 | 3651 | rVB2 | 93199 | 253401 | 13.54% | 0.944% |
| 71 | 13.108 | 3654 | 3660 | 3663 | rBV2 | 19414 | 24803 | 1.33% | 0.092% |
| 72 | 13.288 | 3710 | 3716 | 3729 | rVB3 | 37672 | 63197 | 3.38% | 0.236% |
| 73 | 13.352 | 3730 | 3736 | 3743 | rBV3 | 20748 | 29085 | 1.55% | 0.108% |
| 74 | 13.433 | 3747 | 3761 | 3782 | rBV4 | 188457 | 498458 | 26.64% | 1.858% |
| 75 | 13.587 | 3805 | 3809 | 3814 | rBV2 | 18460 | 23157 | 1.24% | 0.086% |
| 76 | 13.626 | 3815 | 3821 | 3846 | rVB2 | 64297 | 173531 | 9.27% | 0.647% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Integration Parameters: LSCINT.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_U\Method\SFAMULM112921WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 13.735 | 3846 | 3855 | 3864 | rBV10 | 17240 | 36527 | 1.95% | 0.136% |
| 78 | 13.838 | 3878 | 3887 | 3901 | rBV6 | 32361 | 78336 | 4.19% | 0.292% |
| 79 | 13.967 | 3917 | 3927 | 3933 | rBV6 | 12314 | 26643 | 1.42% | 0.099% |
| 80 | 14.086 | 3947 | 3964 | 3984 | rVB | 1088582 | 1765302 | 94.35% | 6.579% |
| 81 | 14.195 | 3986 | 3998 | 4013 | rVB6 | 49210 | 131120 | 7.01% | 0.489% |
| 82 | 14.452 | 4070 | 4078 | 4085 | rBV | 100579 | 129759 | 6.94% | 0.484% |
| 83 | 14.677 | 4136 | 4148 | 4159 | rVB8 | 25852 | 60128 | 3.21% | 0.224% |
| 84 | 14.812 | 4183 | 4190 | 4196 | rBV3 | 11364 | 17673 | 0.94% | 0.066% |
| 85 | 14.877 | 4205 | 4210 | 4219 | rVB4 | 14074 | 20126 | 1.08% | 0.075% |
| 86 | 15.021 | 4247 | 4255 | 4263 | rBV7 | 20543 | 39602 | 2.12% | 0.148% |
| 87 | 15.147 | 4289 | 4294 | 4302 | rVB8 | 13035 | 18246 | 0.98% | 0.068% |
| 88 | 15.221 | 4303 | 4317 | 4328 | rBV | 252133 | 426818 | 22.81% | 1.591% |
| 89 | 15.346 | 4350 | 4356 | 4360 | rBV7 | 9457 | 13686 | 0.73% | 0.051% |
| 90 | 15.404 | 4365 | 4374 | 4399 | rVB2 | 205997 | 374397 | 20.01% | 1.395% |
| 91 | 16.147 | 4598 | 4605 | 4613 | rBV | 29977 | 47765 | 2.55% | 0.178% |
| 92 | 16.262 | 4631 | 4641 | 4647 | rBV | 96682 | 163053 | 8.71% | 0.608% |
| 93 | 16.407 | 4677 | 4686 | 4693 | rBV | 103446 | 167331 | 8.94% | 0.624% |
| 94 | 16.446 | 4693 | 4698 | 4717 | rVB | 68405 | 116680 | 6.24% | 0.435% |
| 95 | 16.880 | 4825 | 4833 | 4843 | rBV3 | 40406 | 63302 | 3.38% | 0.236% |
| 96 | 17.327 | 4966 | 4972 | 4980 | rVB3 | 29781 | 41580 | 2.22% | 0.155% |
| 97 | 17.378 | 4981 | 4988 | 4989 | rVV2 | 35958 | 39308 | 2.10% | 0.146% |
| 98 | 17.407 | 4991 | 4997 | 5011 | rVB | 98586 | 166166 | 8.88% | 0.619% |
| 99 | 17.539 | 5031 | 5038 | 5048 | rVB2 | 31344 | 53954 | 2.88% | 0.201% |
| 100 | 17.603 | 5051 | 5058 | 5067 | rBV2 | 26821 | 43389 | 2.32% | 0.162% |

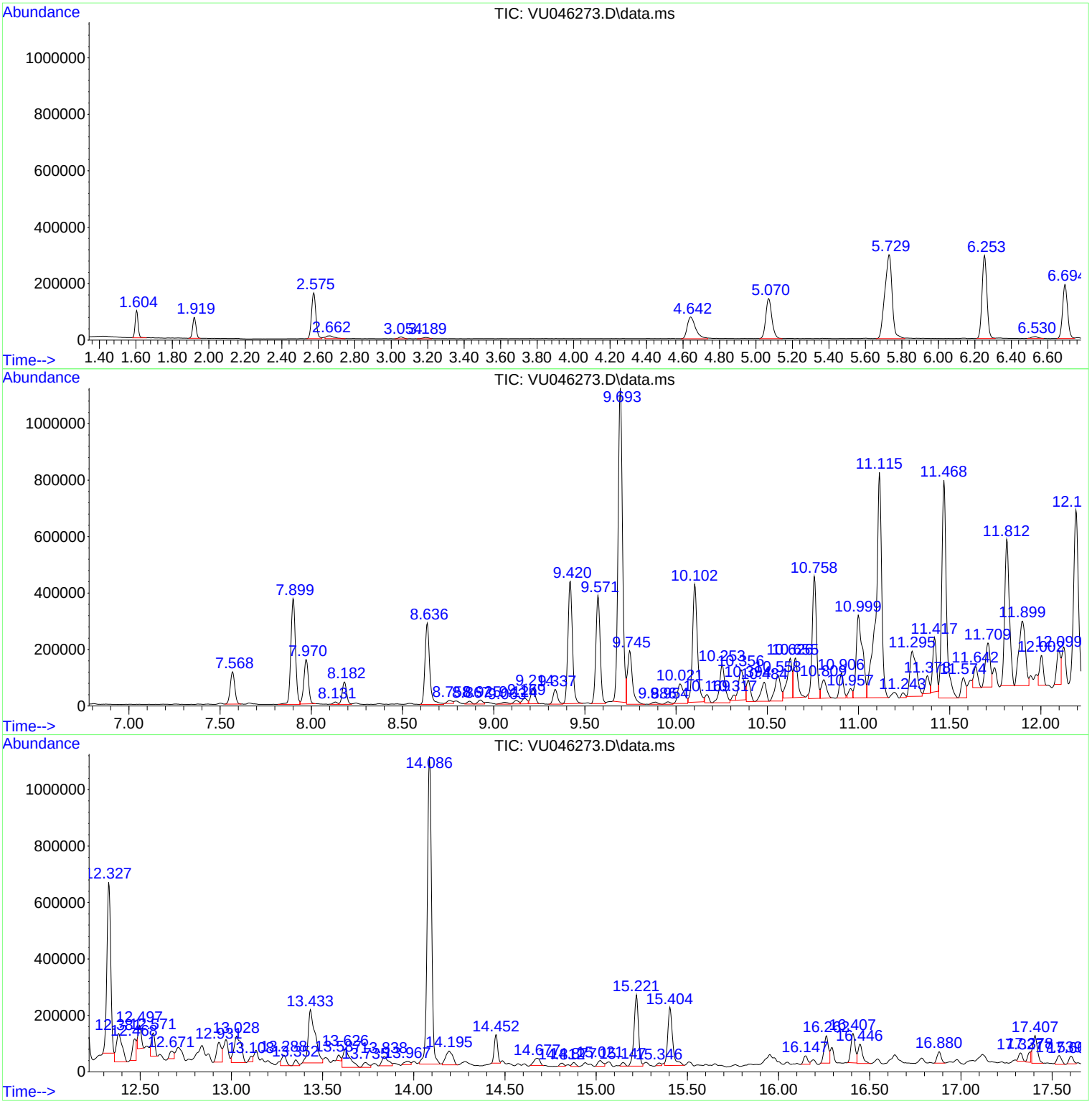
Sum of corrected areas: 26833870

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

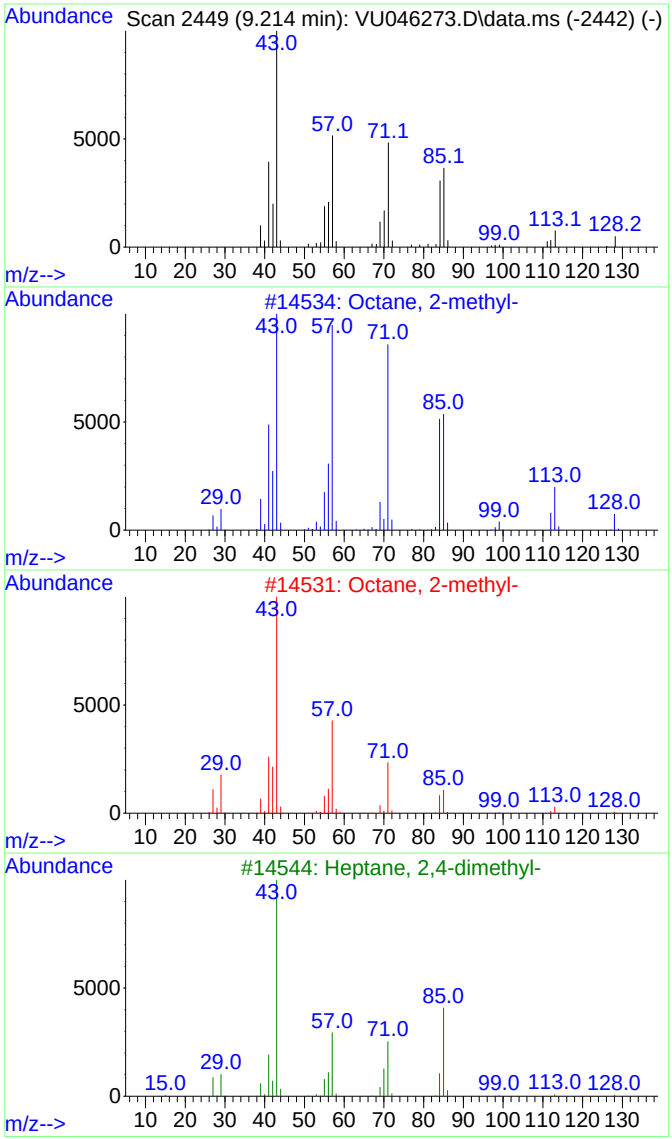
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

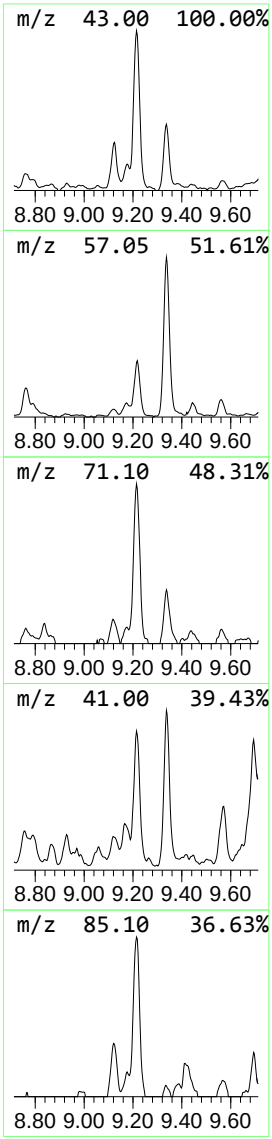
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.214 | 5.98 ug/L | 87989 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 87 |
| 2 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 64 |
| 3 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 64 |
| 4 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 58 |
| 5 | 1-Iodo-2-methylnonane | 268 | C10H21I | 1000101-47-9 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

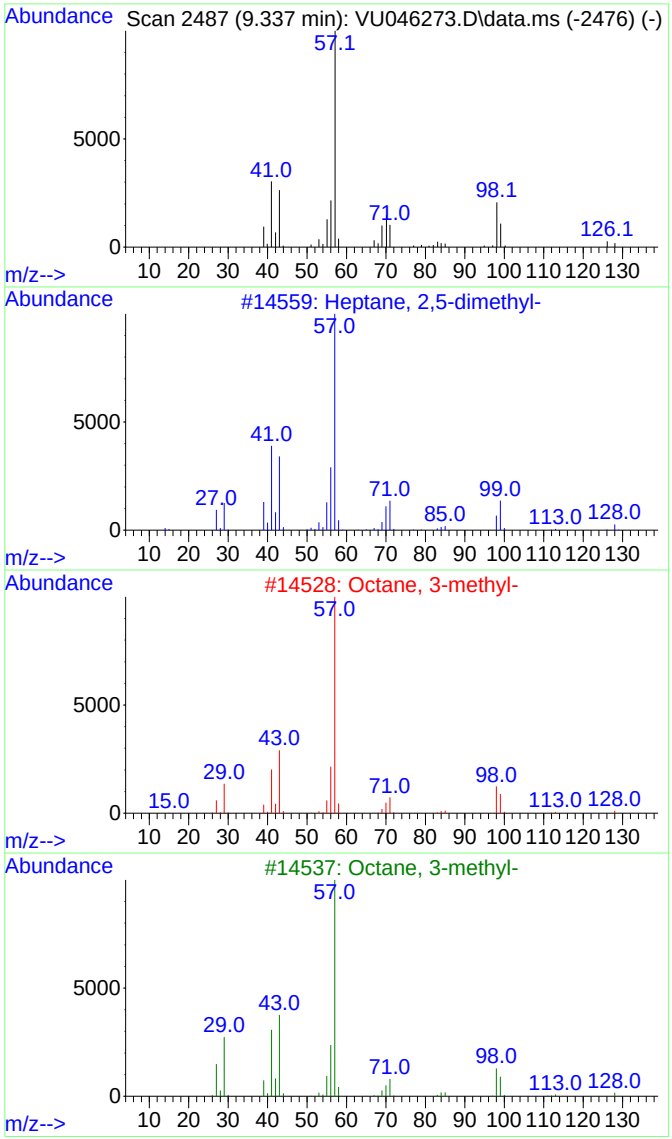
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

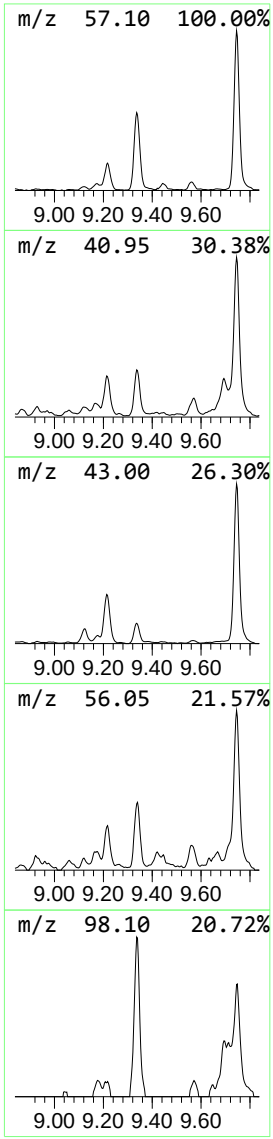
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.337 | 6.07 ug/L | 89369 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 76 |
| 2 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 64 |
| 3 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 64 |
| 4 | Heptyl isobutyl carbonate | 216 | C12H24O3 | 959068-08-7 | 59 |
| 5 | Heptane, 4-(1-methylethyl)- | 142 | C10H22 | 052896-87-4 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

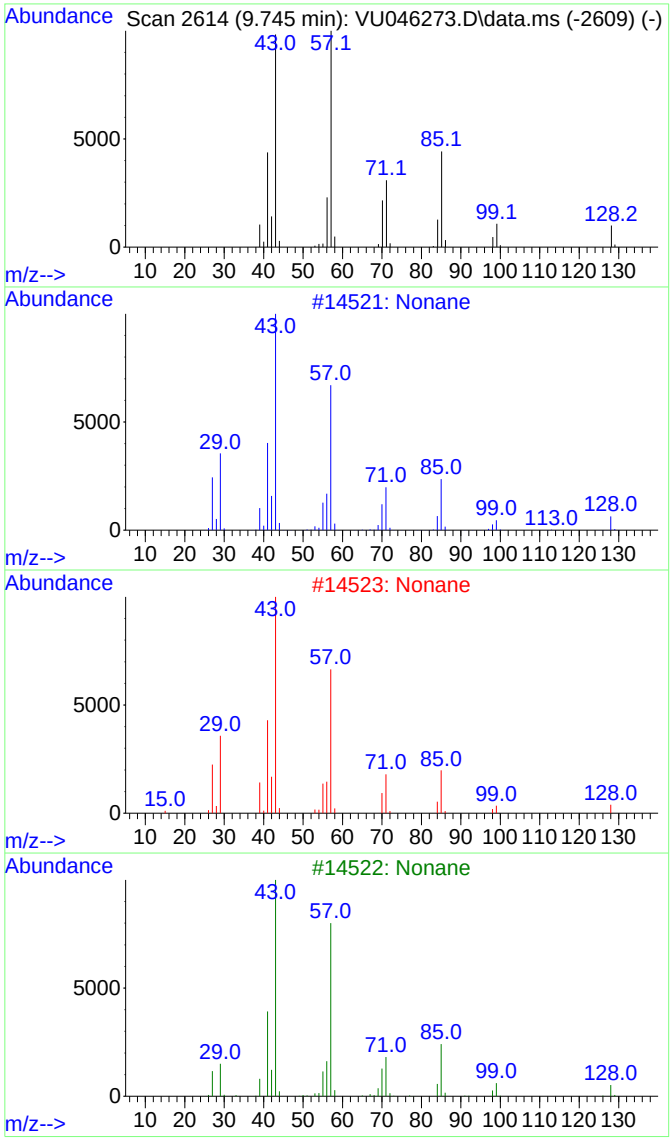
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

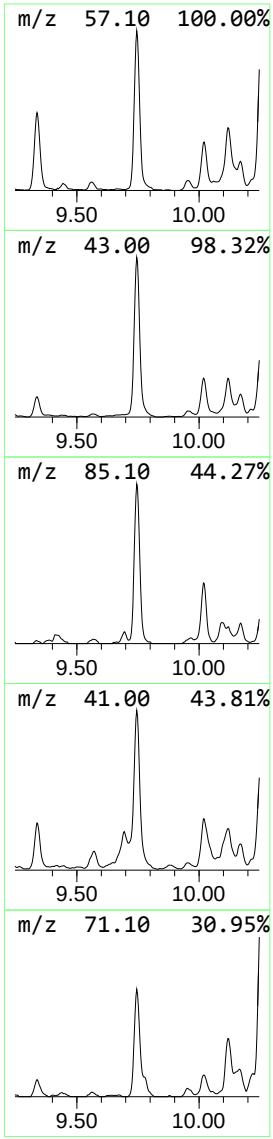
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.745 | 22.75 ug/L | 334794 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 95 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 94 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 91 |
| 4 | Nonane | 128 | C9H20 | 000111-84-2 | 91 |
| 5 | Octane | 114 | C8H18 | 000111-65-9 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

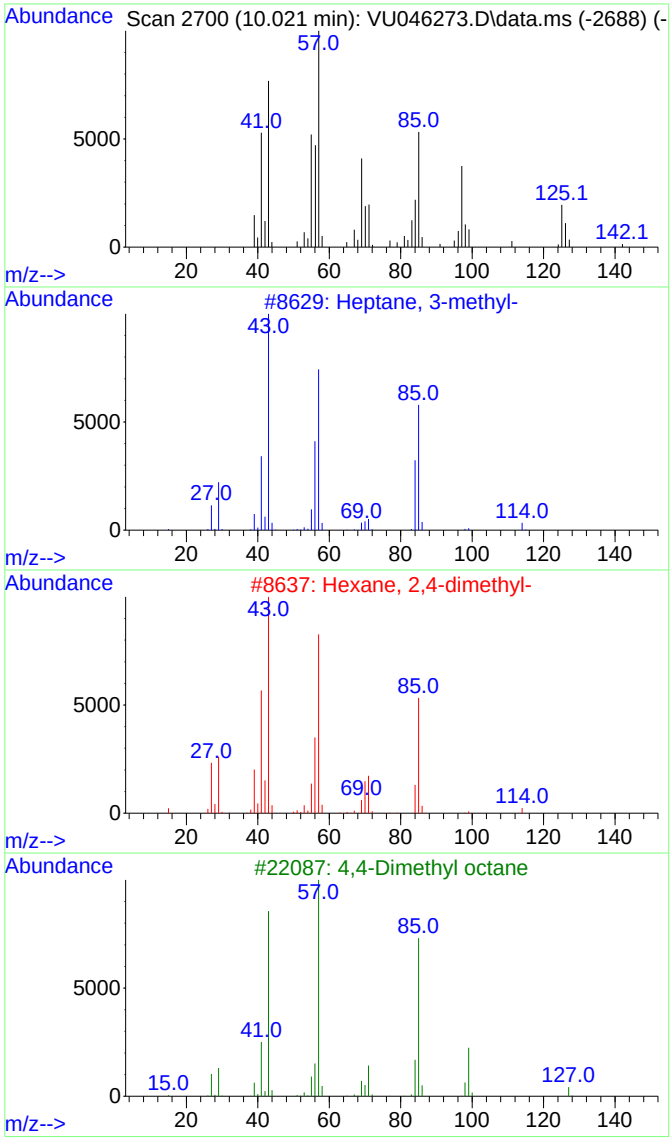
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

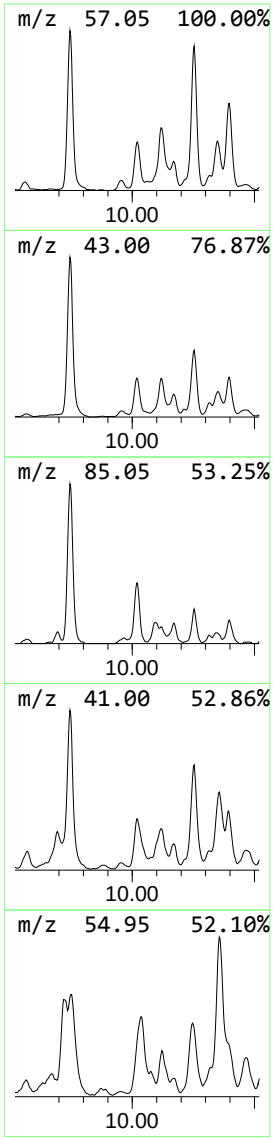
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.021 | 11.37 ug/L | 167219 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 47 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 47 |
| 3 | 4,4-Dimethyl octane | 142 | C10H22 | 015869-95-1 | 38 |
| 4 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 35 |
| 5 | Hexane, 2,2,3,3-tetramethyl- | 142 | C10H22 | 013475-81-5 | 35 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

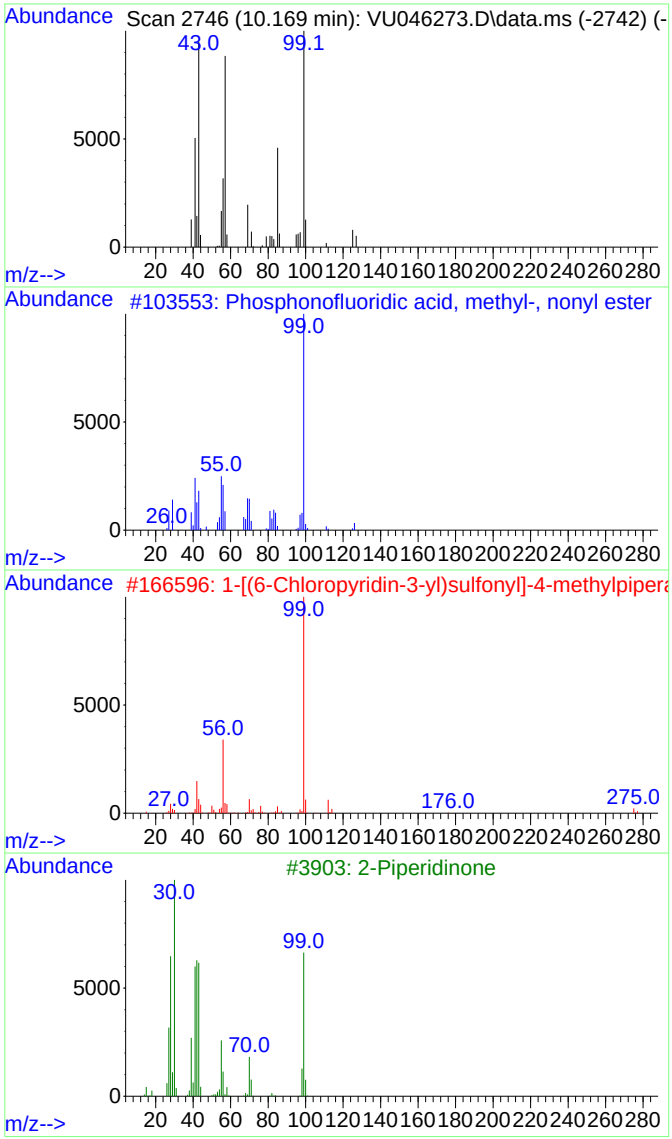
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

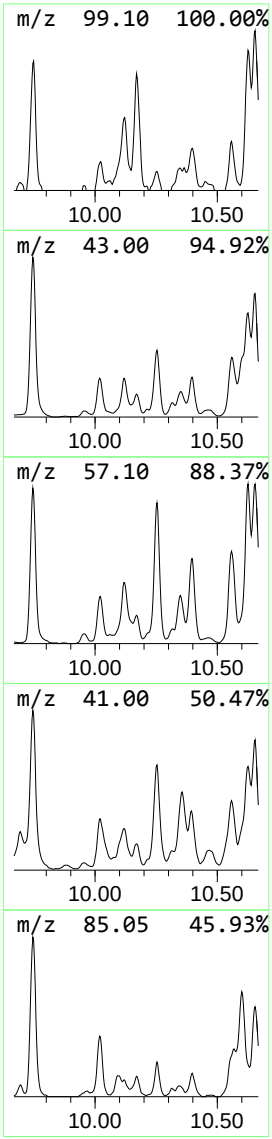
**********

Peak Number 6 unknown-01 Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.169 | 2.66 ug/L | 39113 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosphonofluoridic acid, methyl-... | 224 | C10H22FO2P | 211192-74-4 | 43 |
| 2 | 1-[(6-Chloropyridin-3-yl)sulfony... | 275 | C10H14ClN3O2S | 064614-53-5 | 38 |
| 3 | 2-Piperidinone | 99 | C5H9NO | 000675-20-7 | 32 |
| 4 | 3-Hydroxy-5-methylisoxazole | 99 | C4H5NO2 | 010004-44-1 | 32 |
| 5 | 2,2-Dimethyl-3-octanone | 156 | C10H20O | 005340-64-7 | 28 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

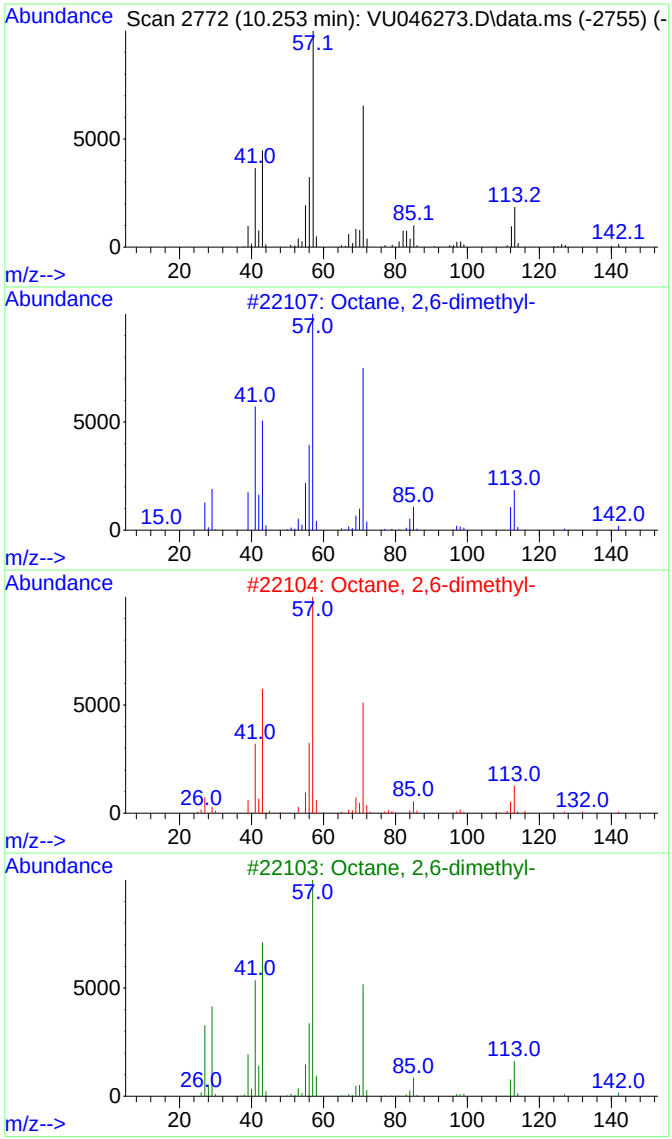
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

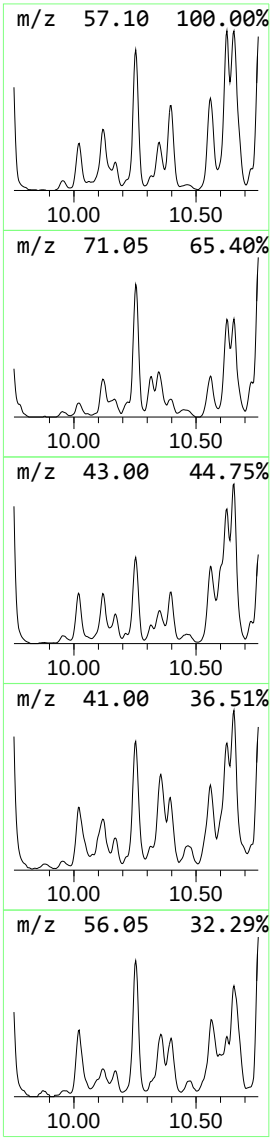
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.253 | 18.83 ug/L | 277035 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 94 |
| 2 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 5 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

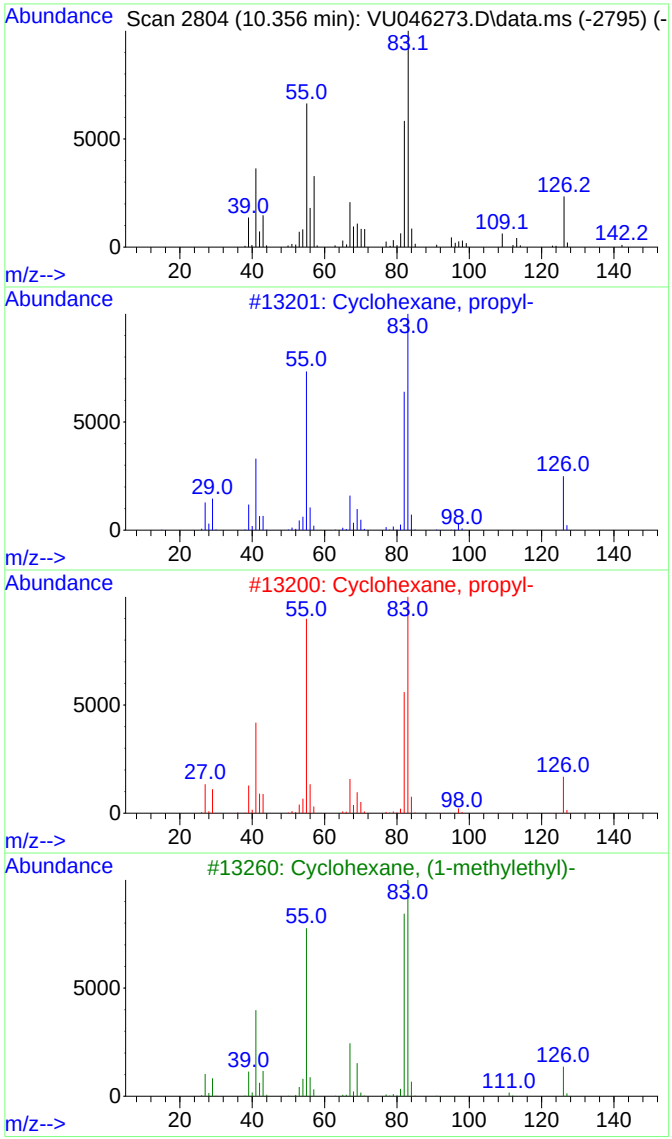
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

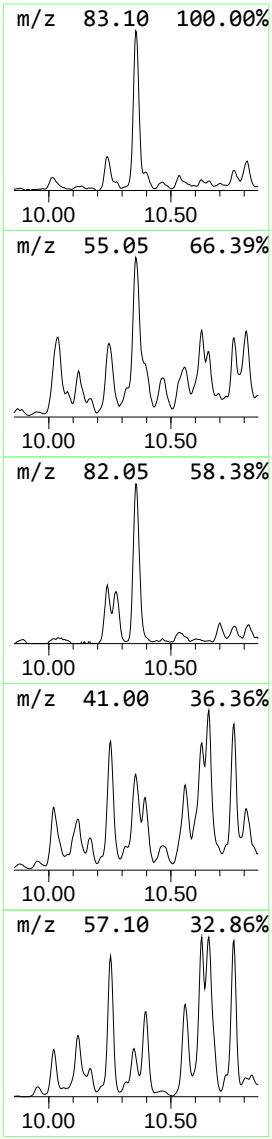
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Cyclic10.356 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.356 | 14.69 ug/L | 216136 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 93 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 90 |
| 3 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 87 |
| 4 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 83 |
| 5 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

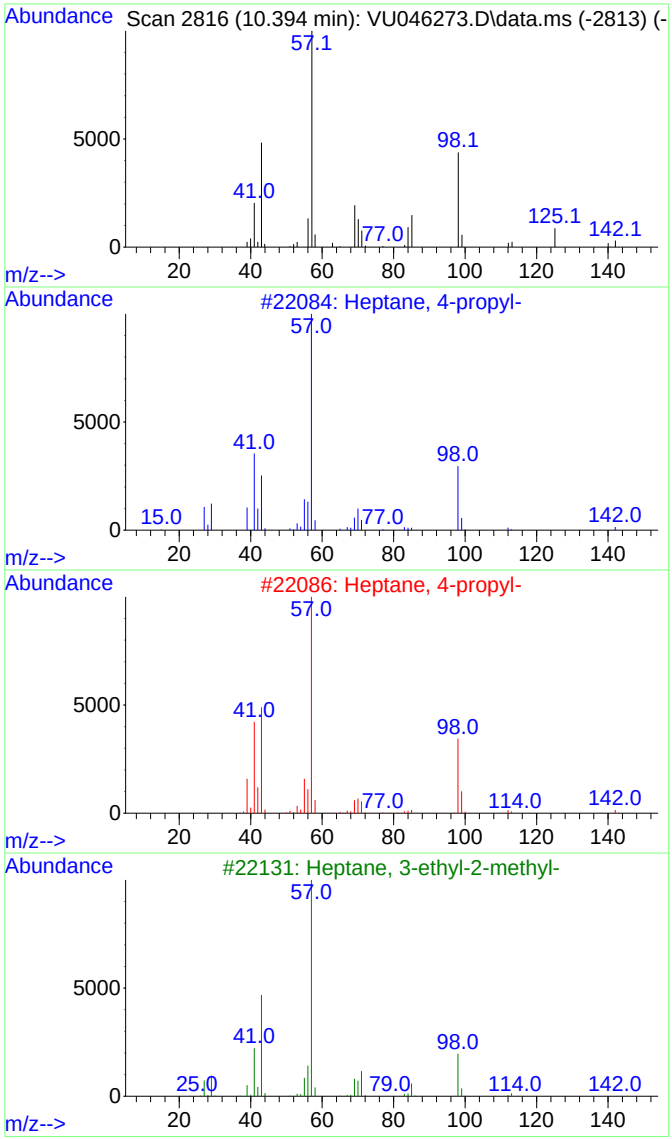
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

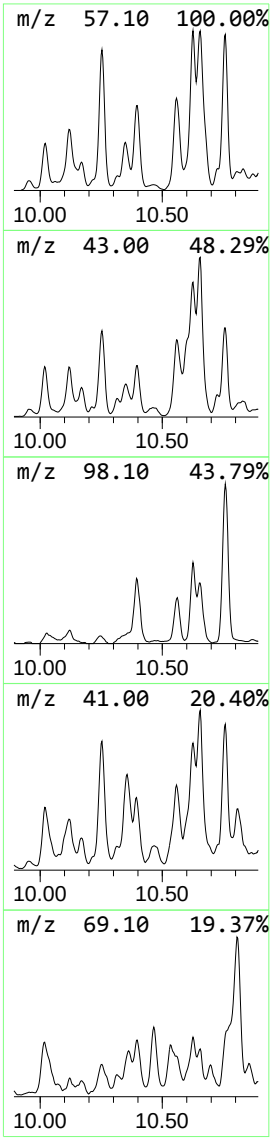
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.394 | 7.01 ug/L | 103161 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 4-propyl- | 142 | C10H22 | 003178-29-8 | 72 |
| 2 | Heptane, 4-propyl- | 142 | C10H22 | 003178-29-8 | 64 |
| 3 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 50 |
| 4 | Hexane, 3-ethyl-2,5-dimethyl- | 142 | C10H22 | 052897-04-8 | 47 |
| 5 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

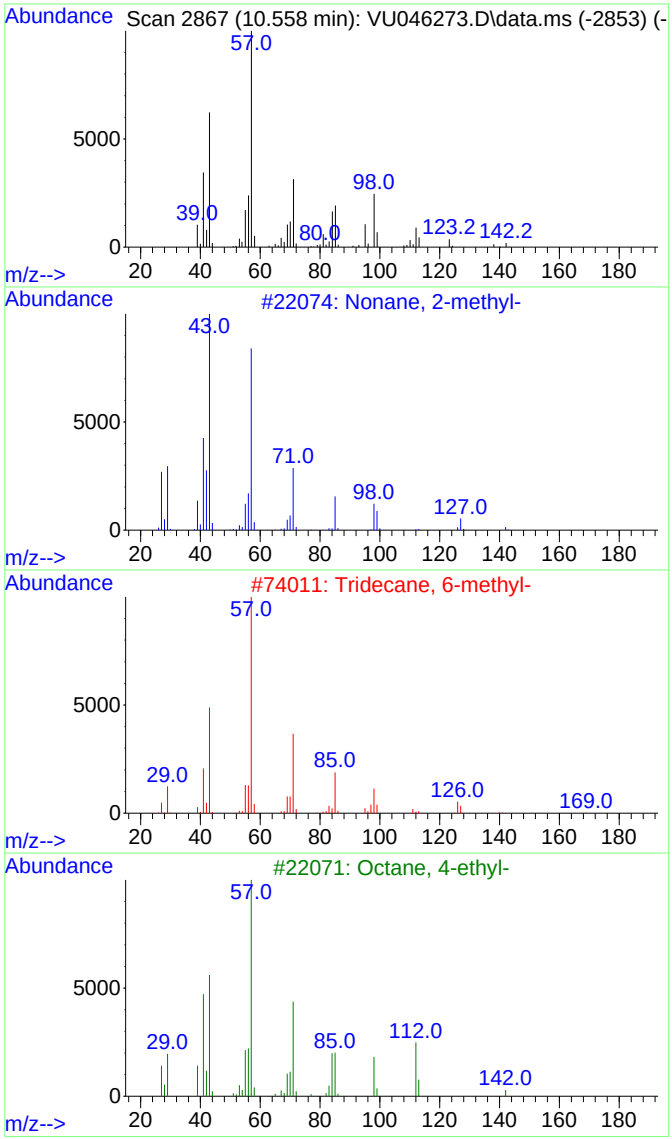
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

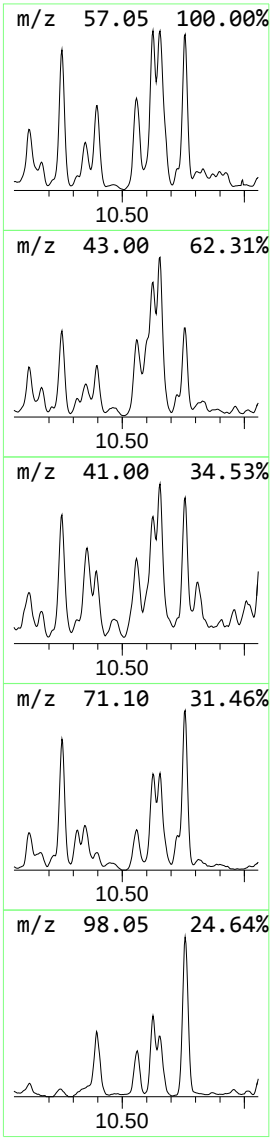
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.558 | 13.69 ug/L | 201374 | Chlorobenzene-d5 | 9.420 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 52 |
| 2 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 47 |
| 3 | Octane, 4-ethyl- | 142 | C10H22 | 015869-86-0 | 43 |
| 4 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 43 |
| 5 | Decane | 142 | C10H22 | 000124-18-5 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

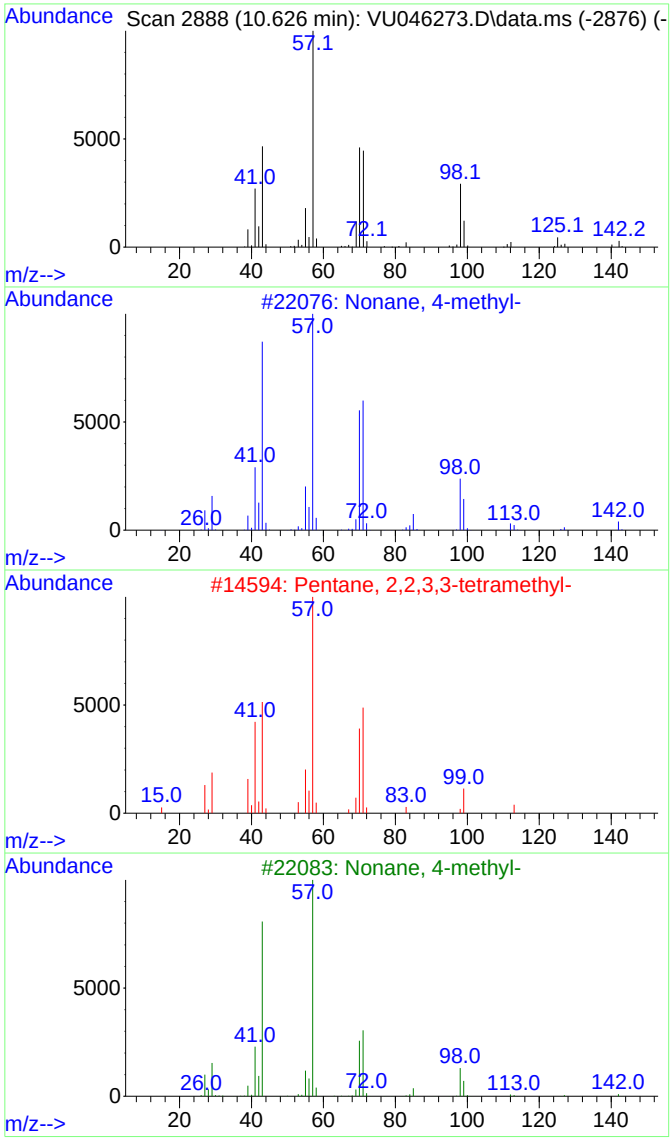
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

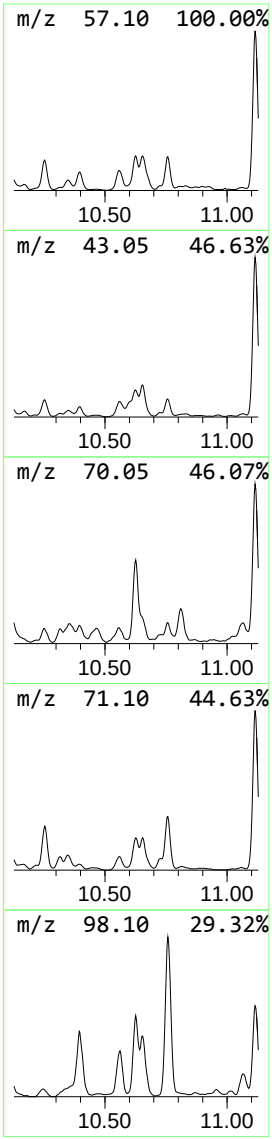
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.626 | 14.18 ug/L | 259689 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 72 |
| 2 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 64 |
| 3 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 56 |
| 4 | Heptane, 2,3,4-trimethyl- | 142 | C10H22 | 052896-95-4 | 53 |
| 5 | Octane, 2,5-dimethyl- | 142 | C10H22 | 015869-89-3 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

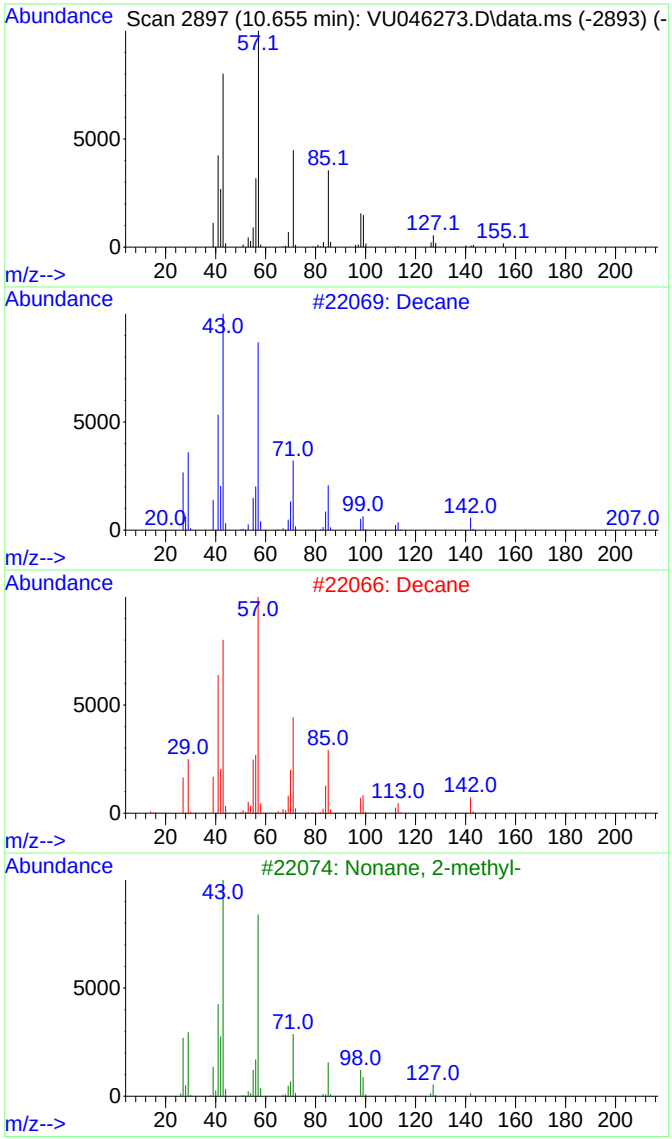
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

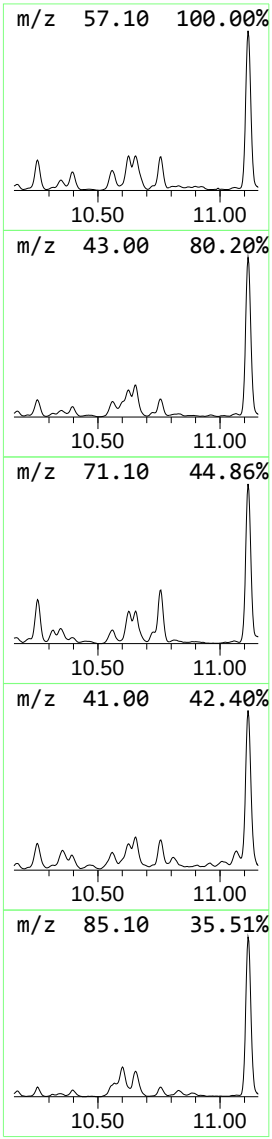
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.655 | 11.27 ug/L | 206371 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 80 |
| 2 | Decane | 142 | C10H22 | 000124-18-5 | 78 |
| 3 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 72 |
| 4 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 64 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

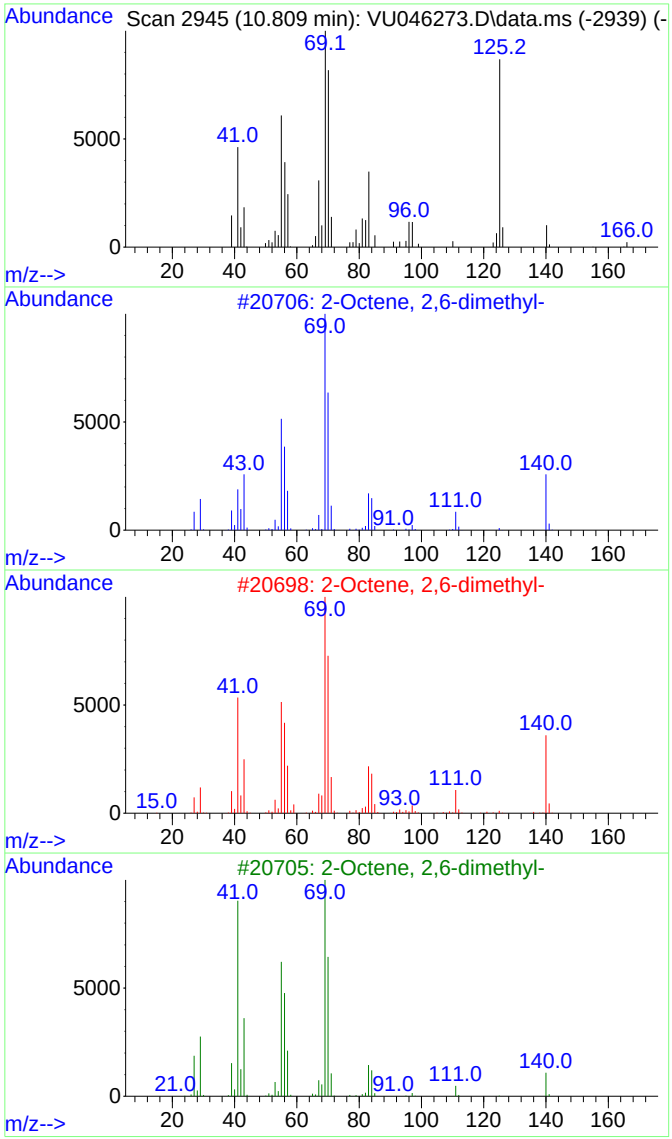
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

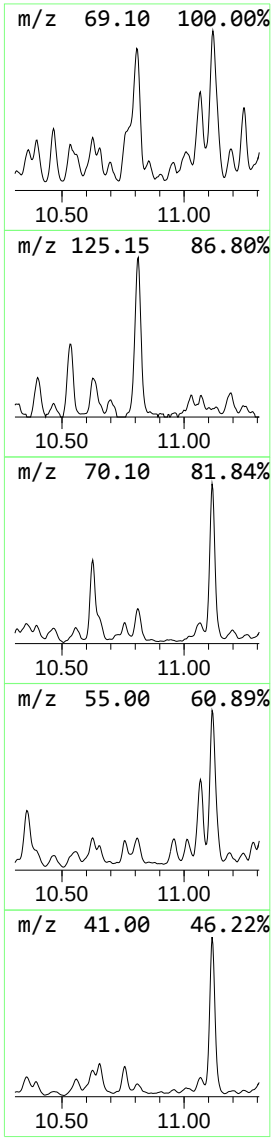
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.809 | 6.79 ug/L | 124381 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 49 |
| 2 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 49 |
| 3 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 47 |
| 4 | 2(1H)-Pyrimidinone, 4-amino-5-me... | 125 | C5H7N3O | 000554-01-8 | 46 |
| 5 | 4-Octene, 2,6-dimethyl-, [S-(Z)]- | 140 | C10H20 | 062960-77-4 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

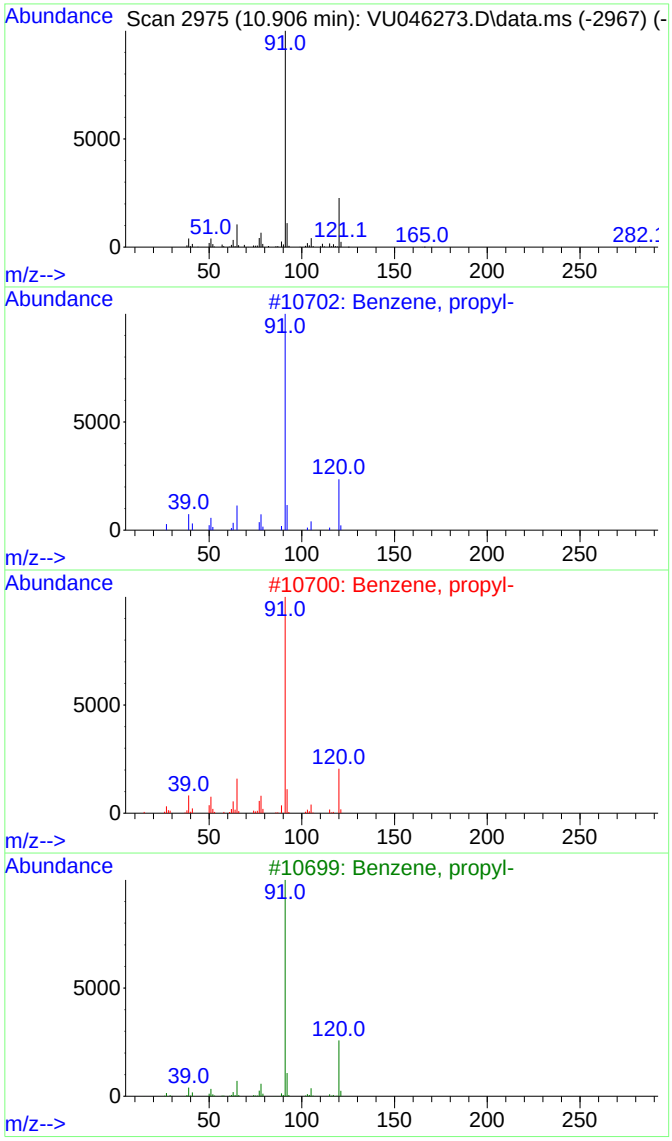
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

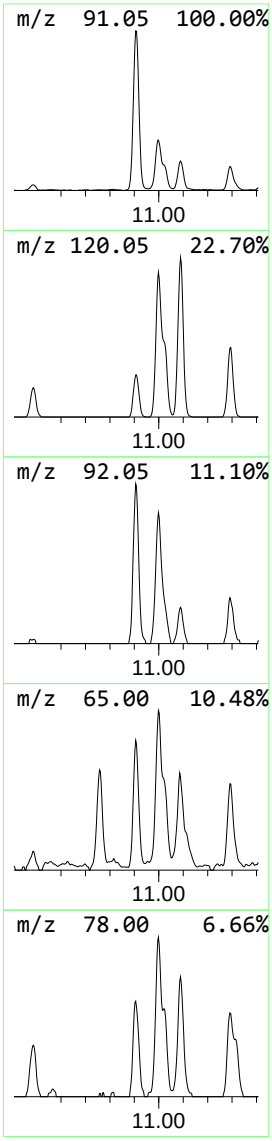
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Benzene, propyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.906 | 7.28 ug/L | 133242 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 93 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 87 |
| 4 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 87 |
| 5 | Phenethylamine, N-benzyl-p-chloro- | 245 | C15H16ClN | 013622-43-0 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

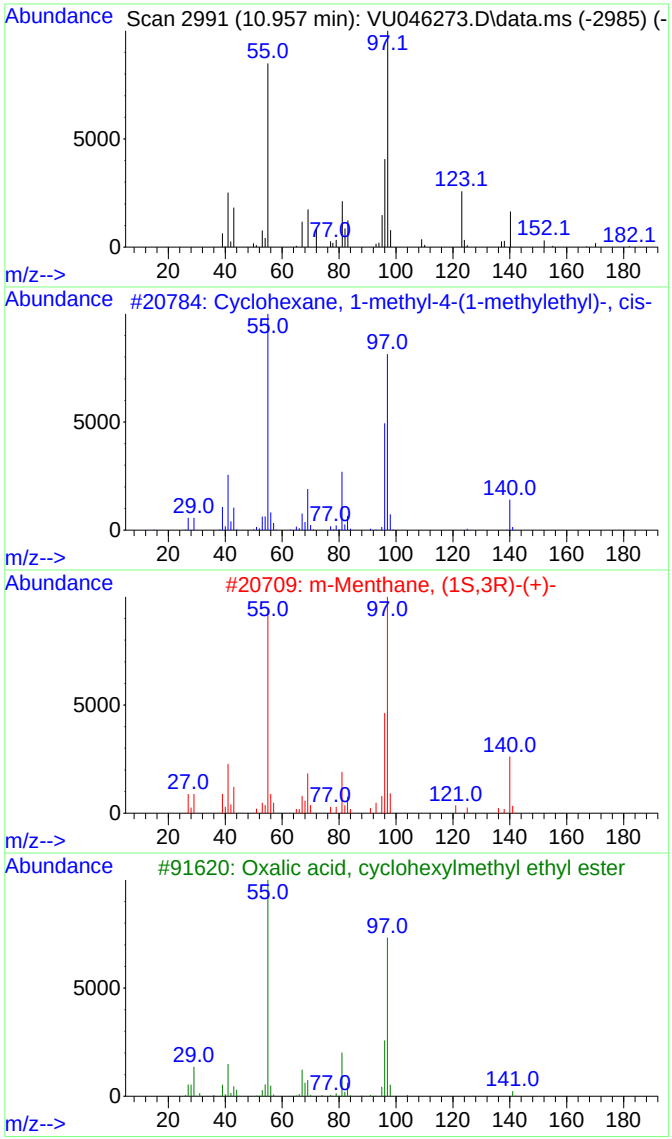
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

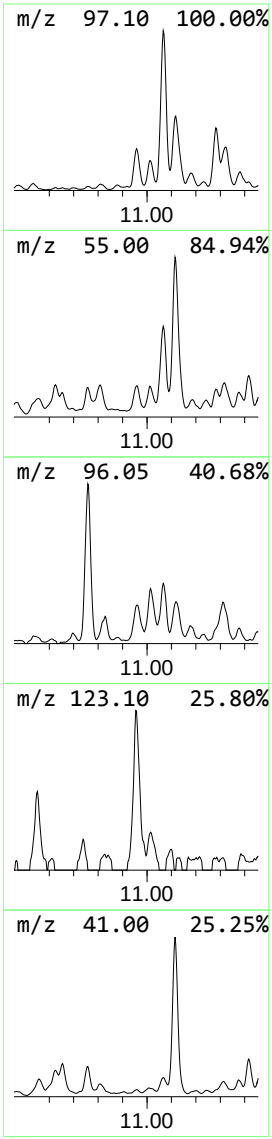
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 (DEL) Alkane: Cyclic10.957 Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.957 | 2.72 ug/L | 49759 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 72 |
| 2 | m-Menthane, (1S,3R)-(+)- | 140 | C10H20 | 013837-66-6 | 72 |
| 3 | Oxalic acid, cyclohexylmethyl et... | 214 | C11H18O4 | 1000309-68-0 | 64 |
| 4 | m-Menthane, (1S,3S)-(+)- | 140 | C10H20 | 013837-67-7 | 64 |
| 5 | m-Menthane, (1S,3S)-(+)- | 140 | C10H20 | 013837-67-7 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

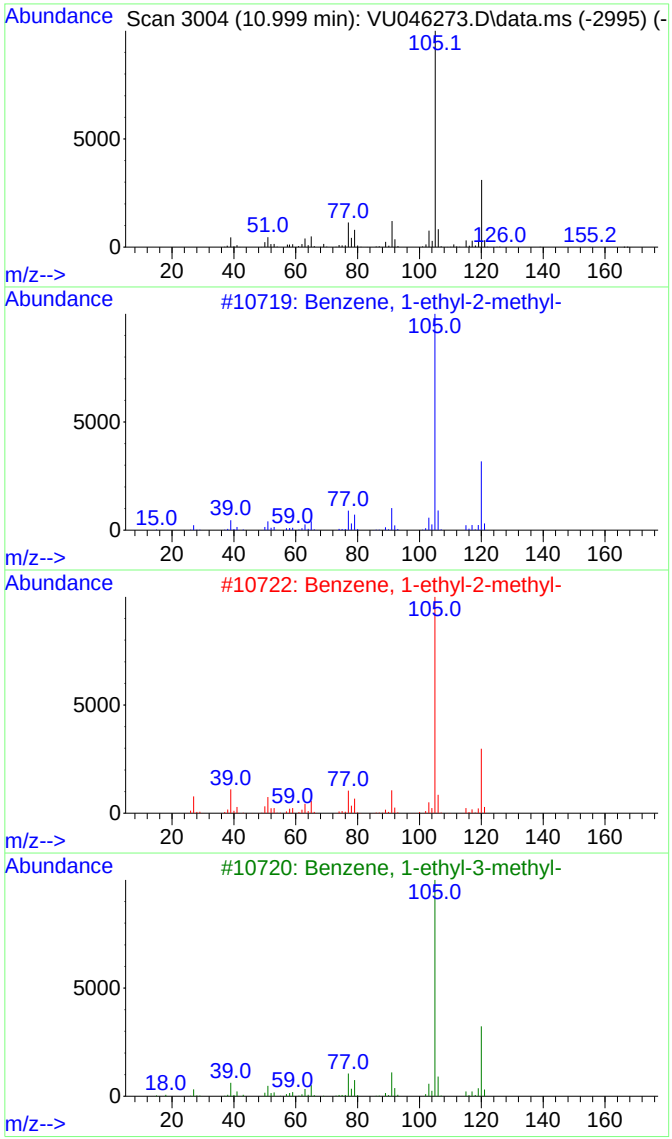
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

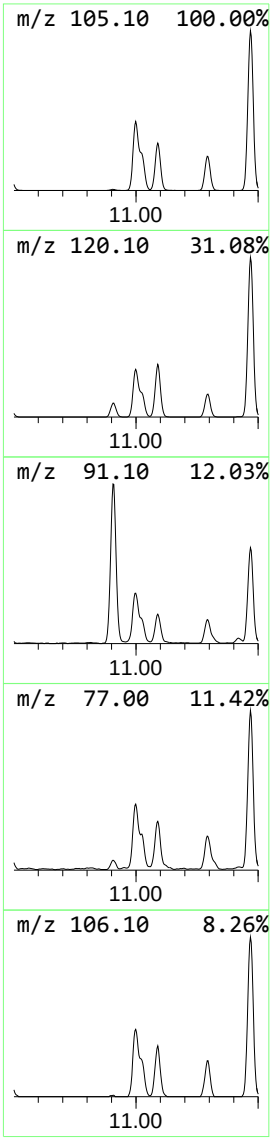
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Benzene, 1-ethyl-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.999 | 38.31 ug/L | 701448 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

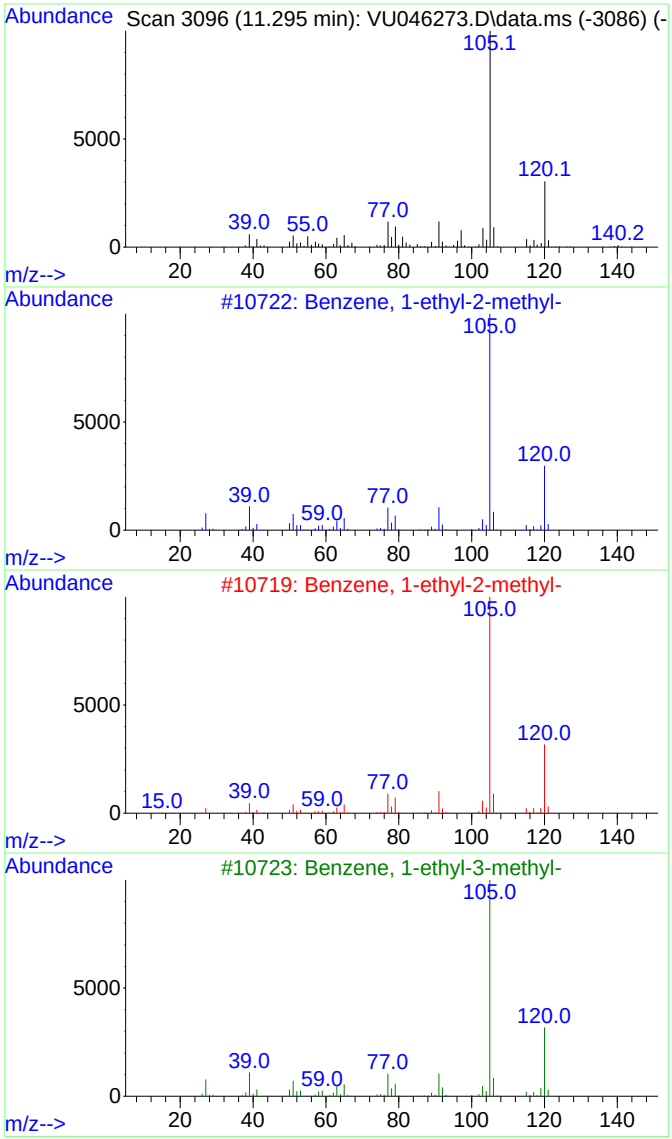
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

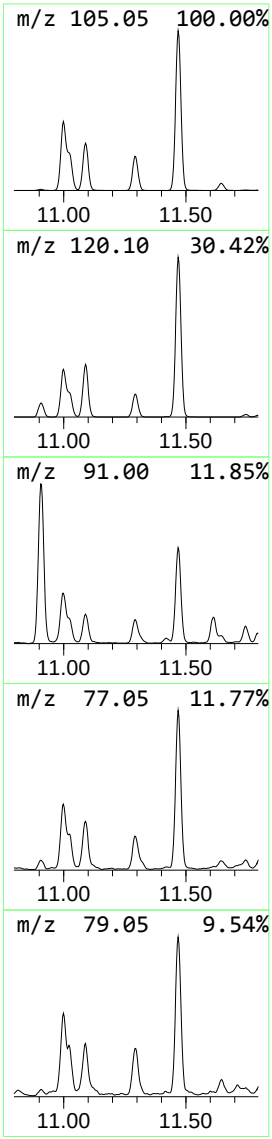
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 Benzene, 1-ethyl-3-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.295 | 22.35 ug/L | 409316 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

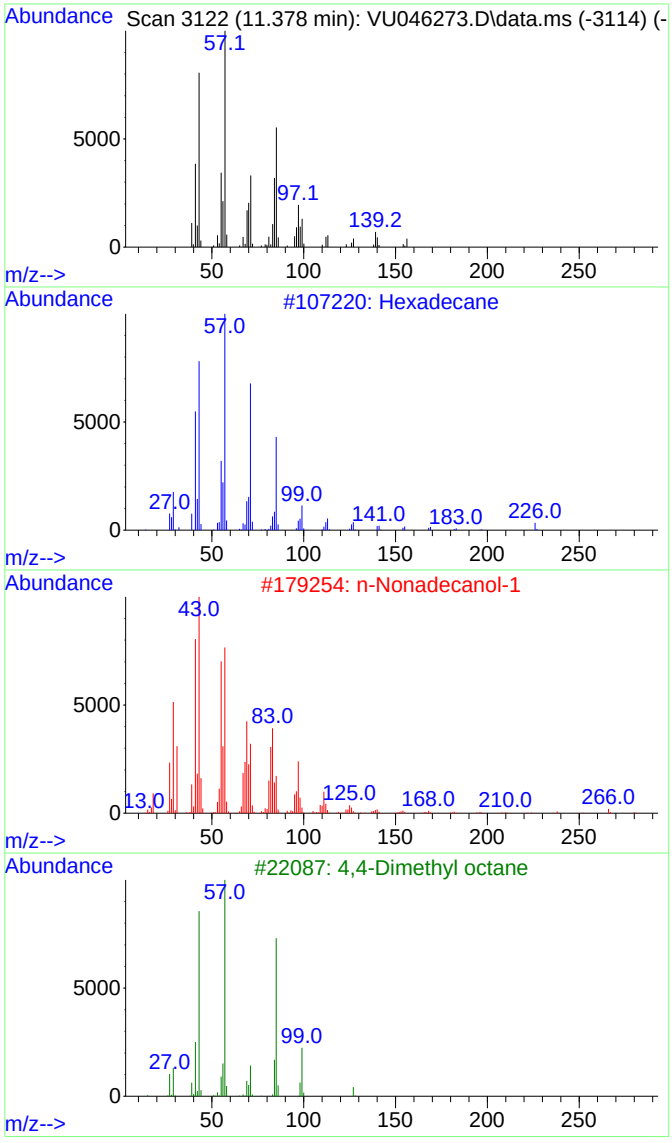
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

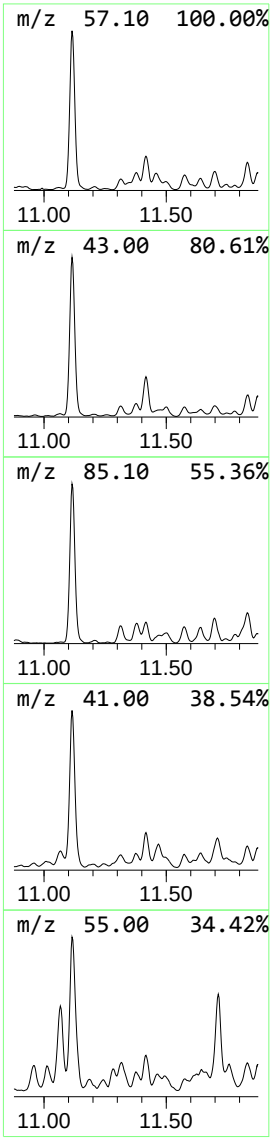
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.378 | 5.17 ug/L | 94655 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 47 |
| 2 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 43 |
| 3 | 4,4-Dimethyl octane | 142 | C10H22 | 015869-95-1 | 43 |
| 4 | Sulfurous acid, hexyl undecyl ester | 320 | C17H36O3S | 1000309-13-3 | 38 |
| 5 | Decane | 142 | C10H22 | 000124-18-5 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

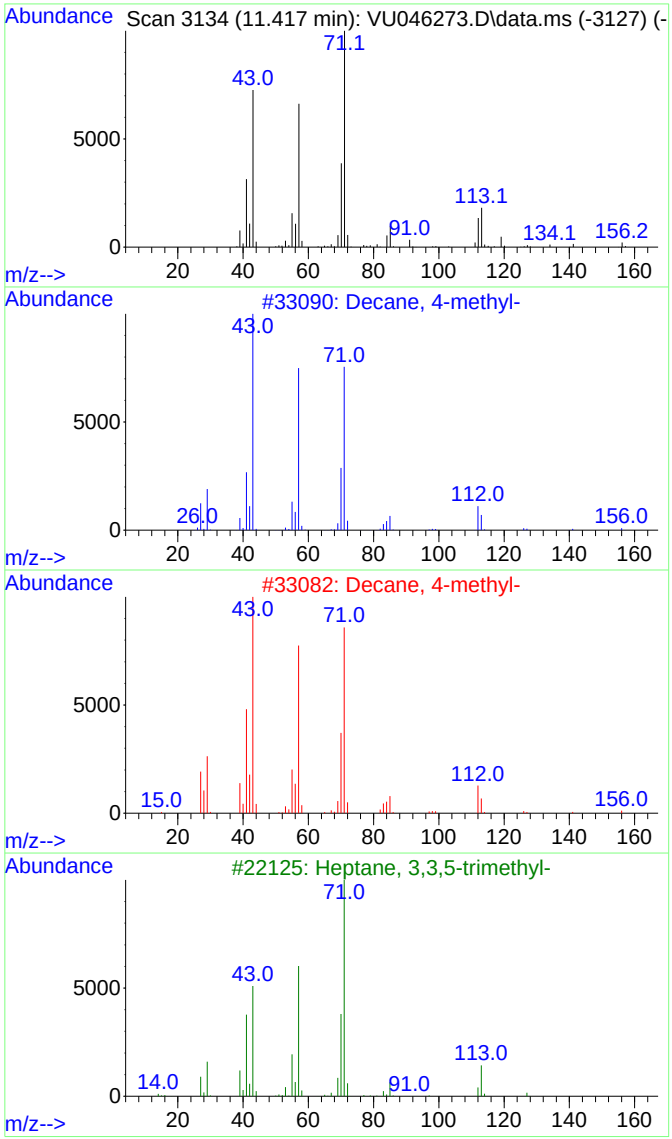
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

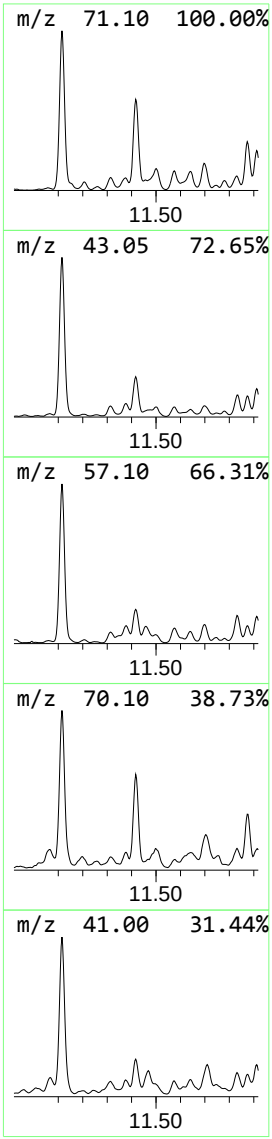
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.417 | 15.02 ug/L | 275022 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 91 |
| 2 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 90 |
| 3 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 72 |
| 4 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 72 |
| 5 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

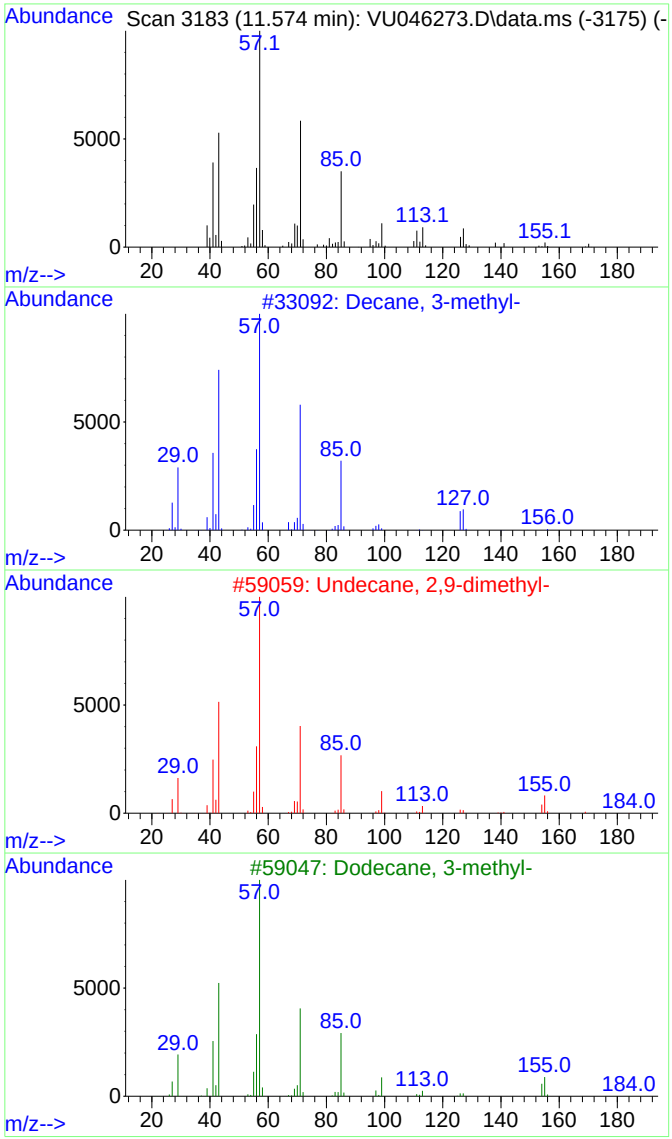
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

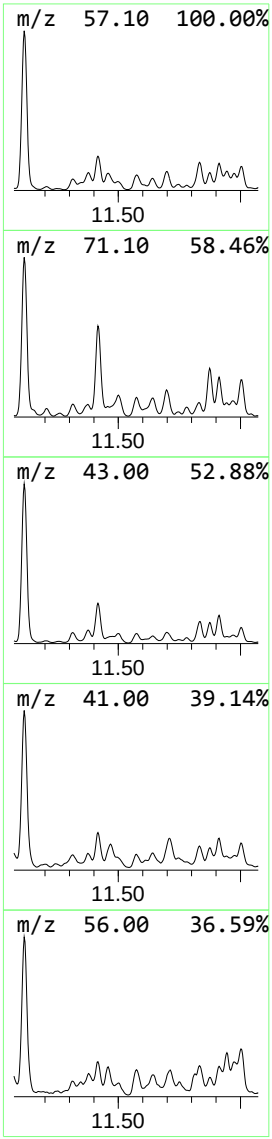
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.574 | 6.65 ug/L | 121710 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 76 |
| 2 | Undecane, 2,9-dimethyl- | 184 | C13H28 | 017301-26-7 | 72 |
| 3 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 72 |
| 4 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 68 |
| 5 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

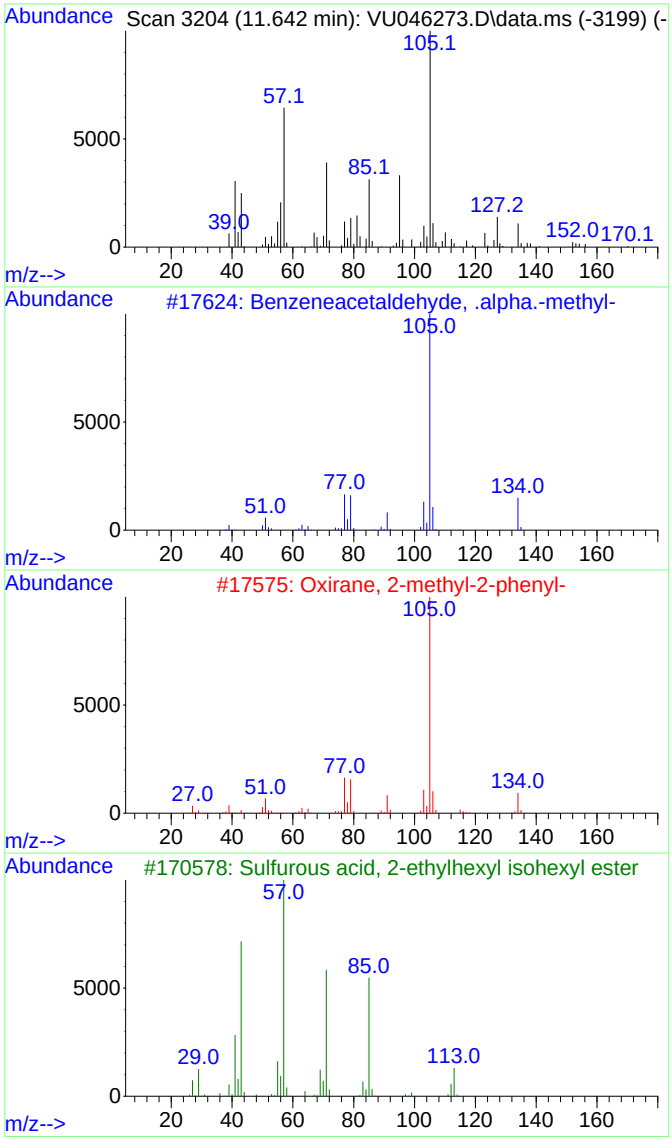
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

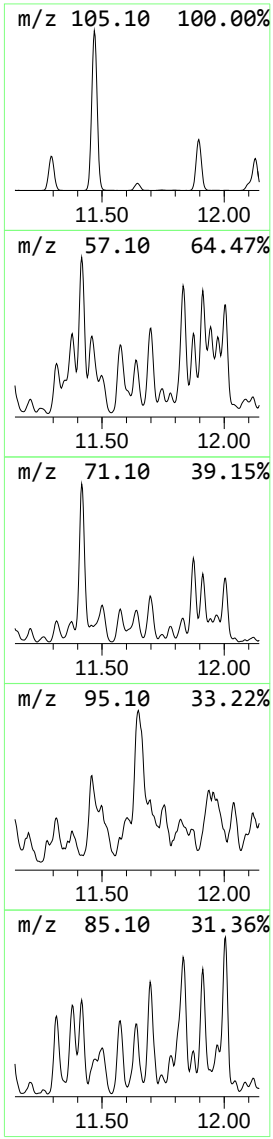
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 unknown-02 Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.642 | 6.18 ug/L | 113212 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O | 000093-53-8 | 35 |
| 2 | Oxirane, 2-methyl-2-phenyl- | 134 | C9H10O | 002085-88-3 | 35 |
| 3 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 27 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 27 |
| 5 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 22 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

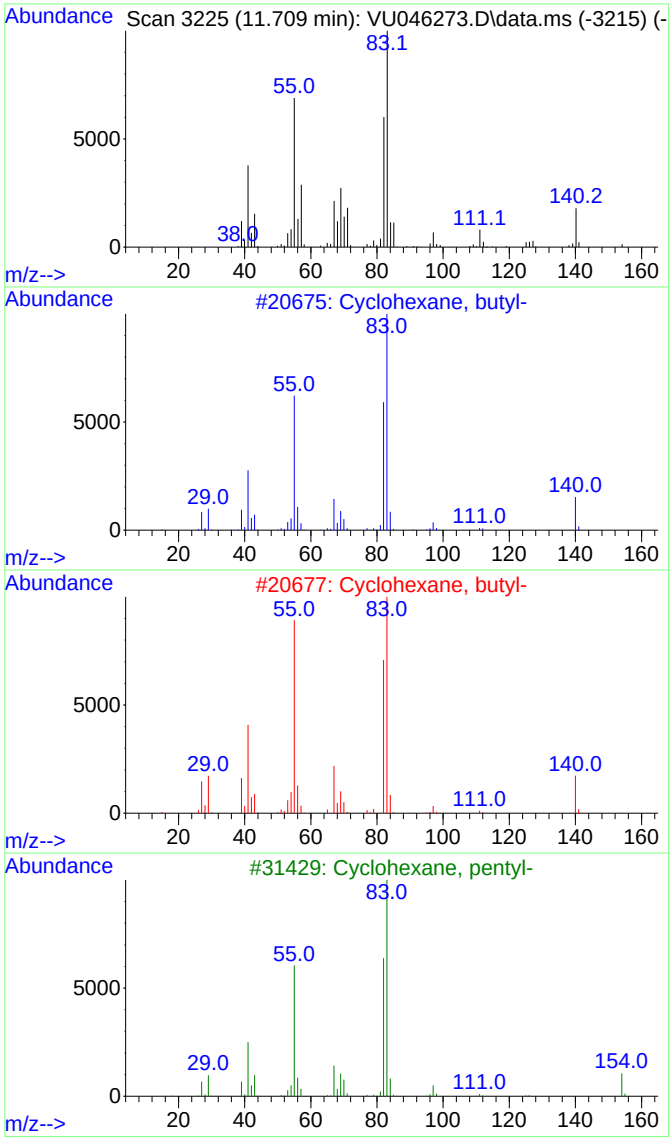
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

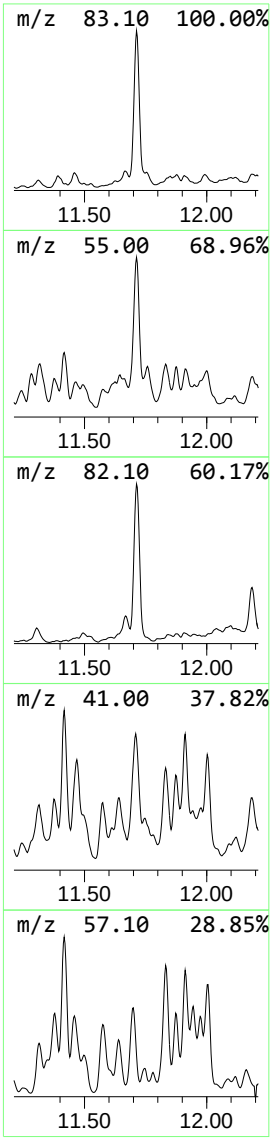
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 (DEL) Alkane: Cyclic11.710 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.710 | 15.92 ug/L | 291477 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 87 |
| 2 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 81 |
| 3 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 81 |
| 4 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 64 |
| 5 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

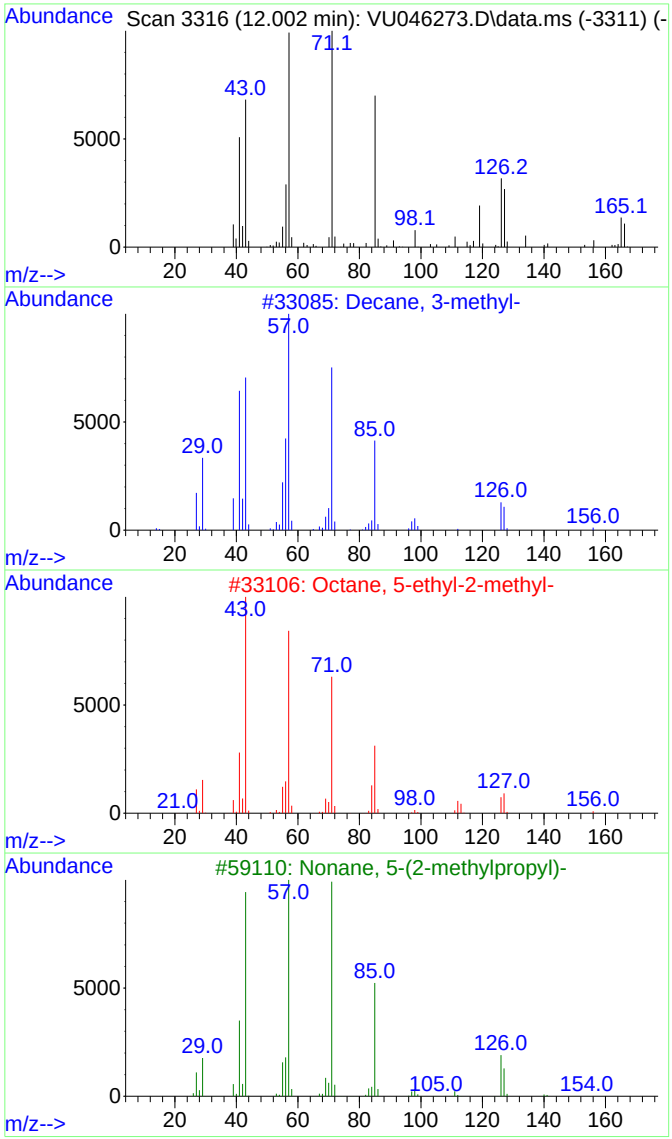
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

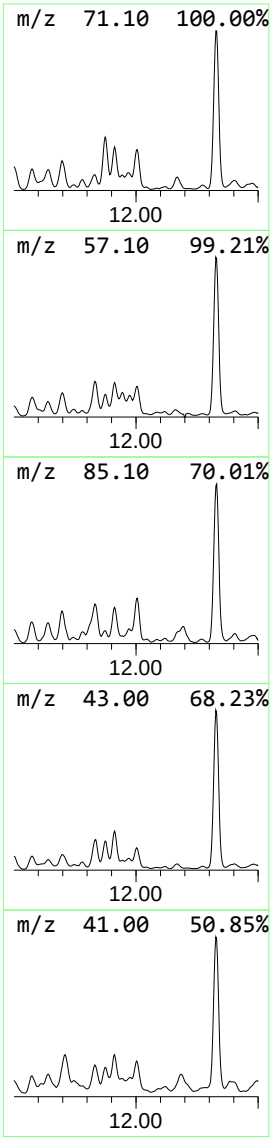
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.002 | 7.82 ug/L | 143221 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 74 |
| 2 | Octane, 5-ethyl-2-methyl- | 156 | C11H24 | 062016-18-6 | 64 |
| 3 | Nonane, 5-(2-methylpropyl)- | 184 | C13H28 | 062185-53-9 | 59 |
| 4 | Heptadecane, 8-methyl- | 254 | C18H38 | 013287-23-5 | 53 |
| 5 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

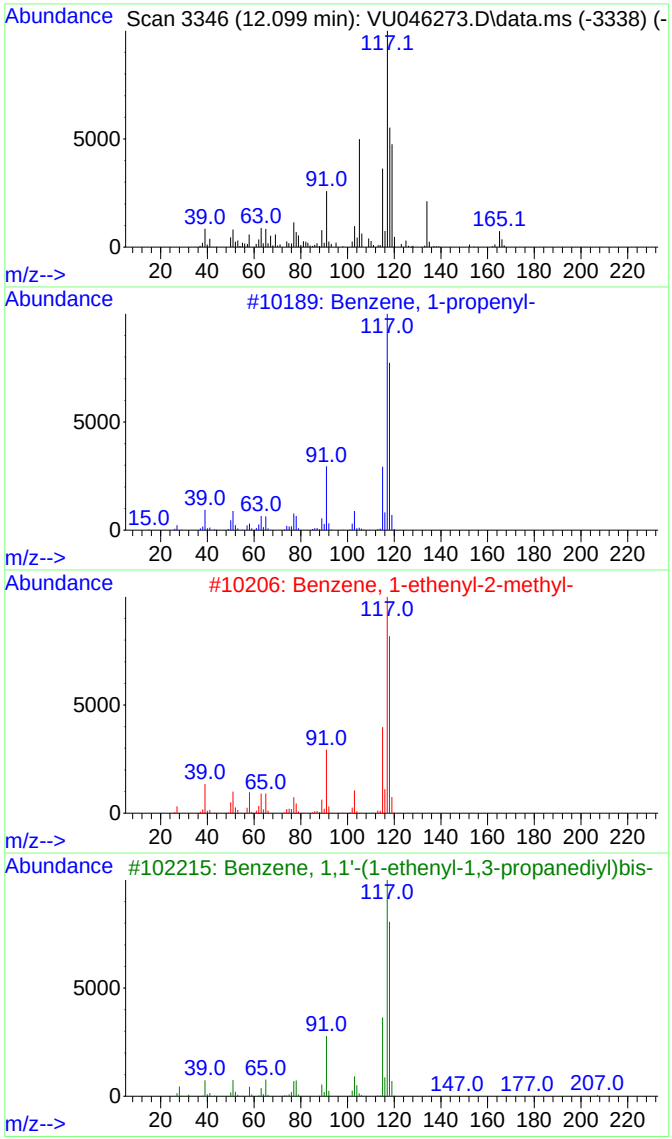
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

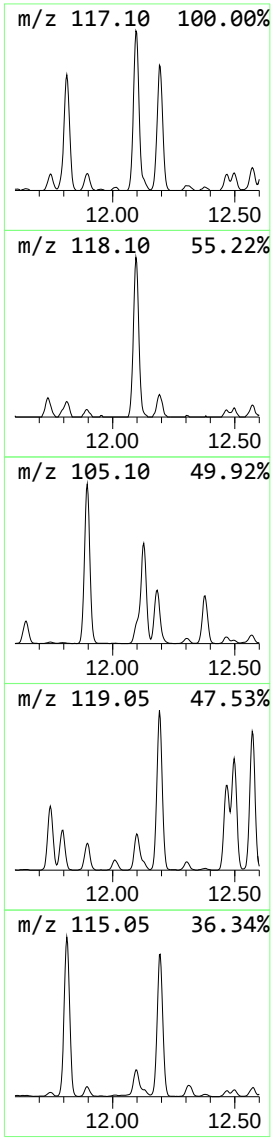
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 Benzene, 1-propenyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.099 | 10.23 ug/L | 187261 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 91 |
| 2 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 80 |
| 3 | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 | C17H18 | 061141-97-7 | 62 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 60 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 60 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

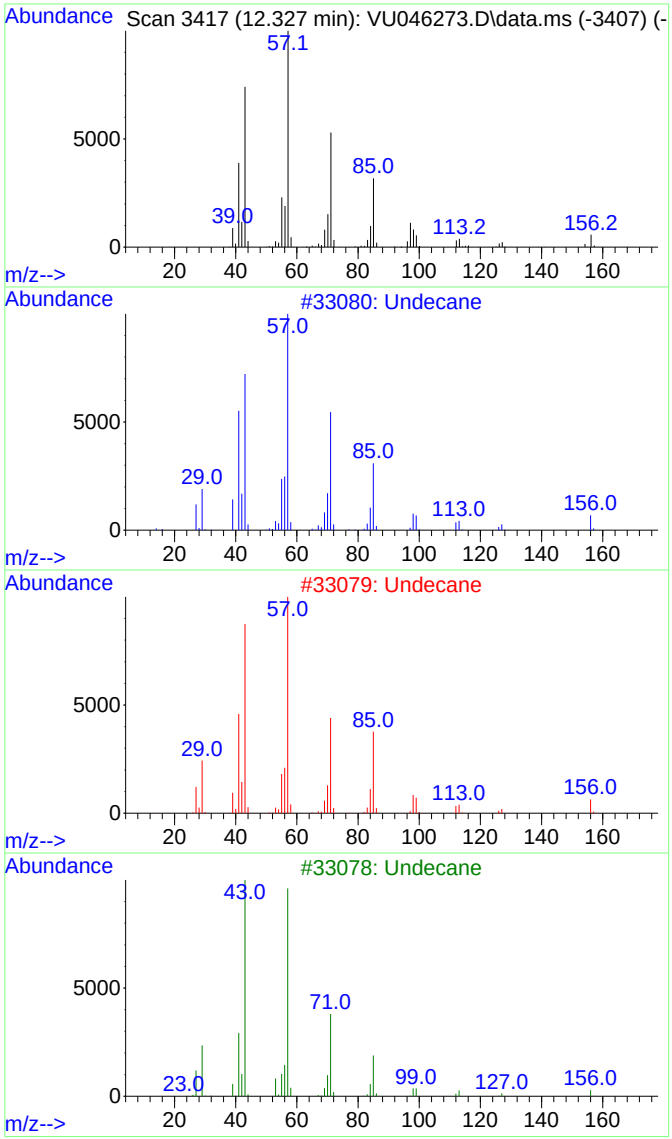
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

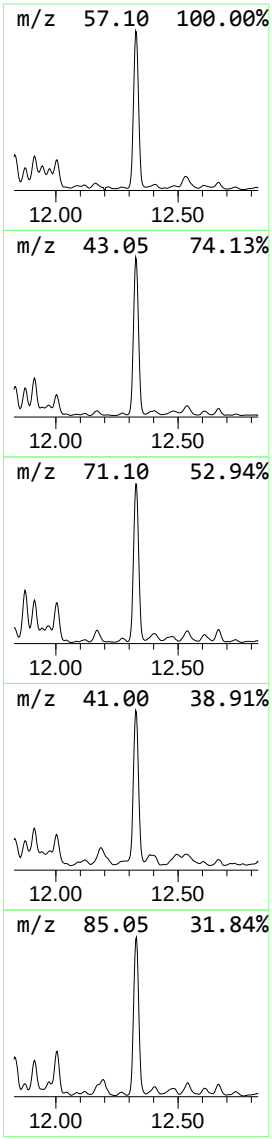
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.327 | 47.25 ug/L | 865328 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 96 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 93 |
| 3 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |
| 5 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

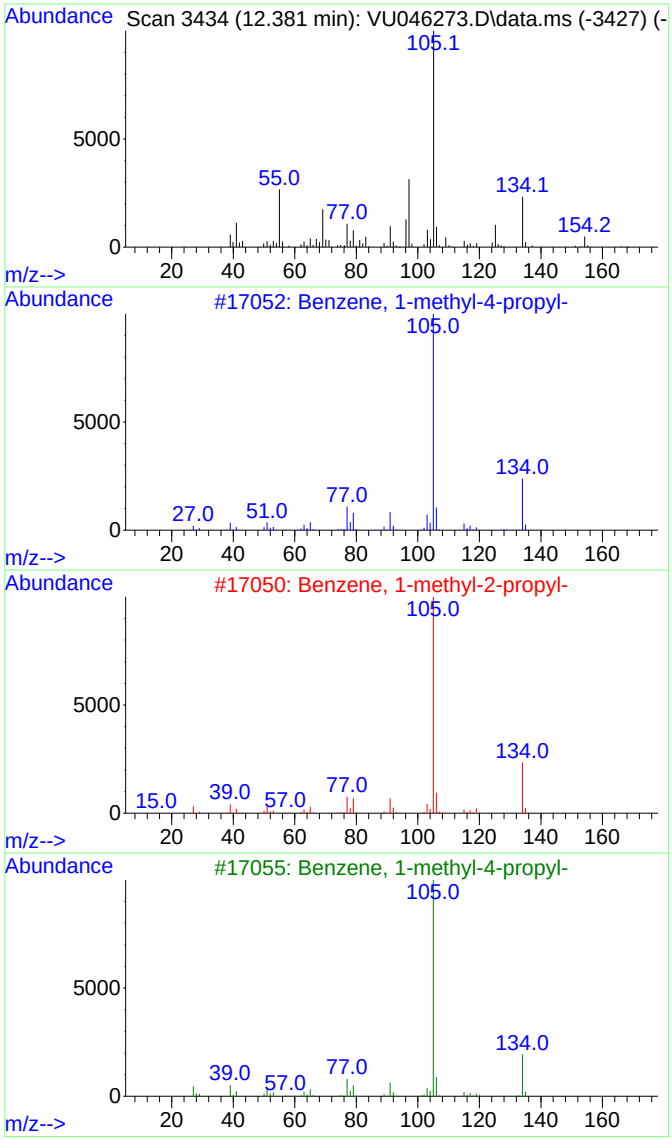
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

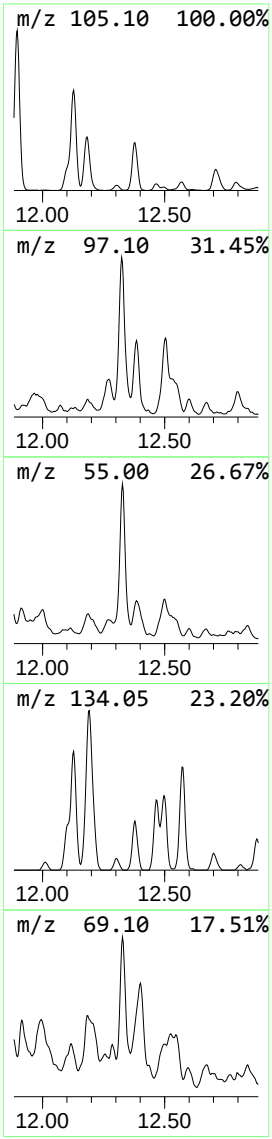
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 Benzene, 1-methyl-4-propyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.382 | 12.09 ug/L | 221429 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 90 |
| 2 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 55 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 55 |
| 4 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 55 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

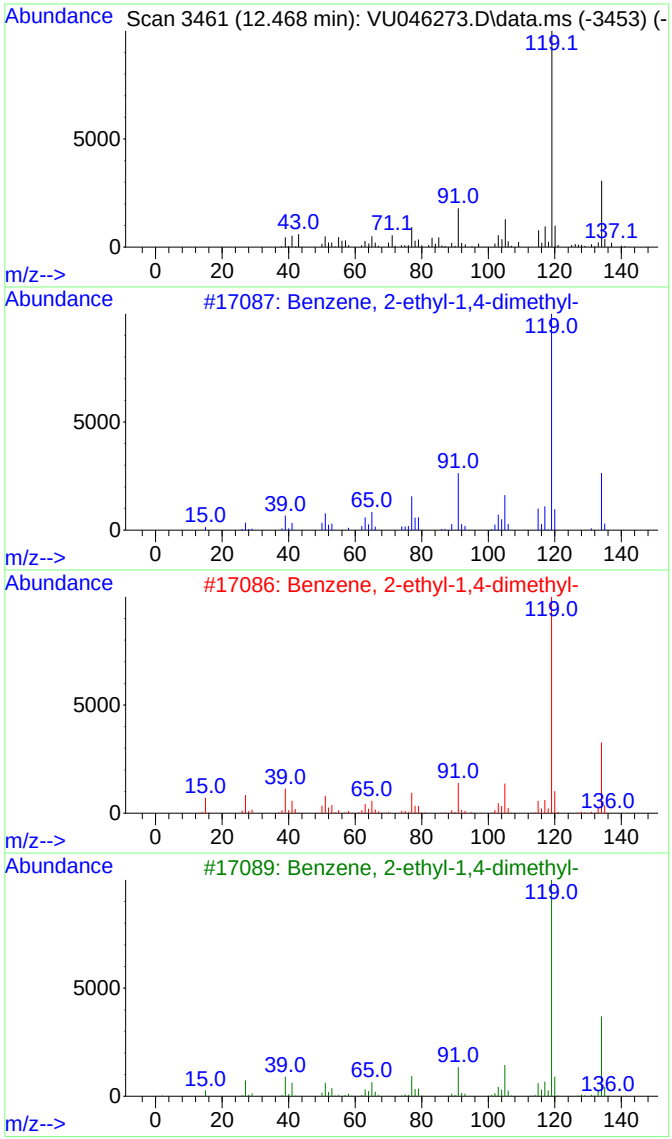
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

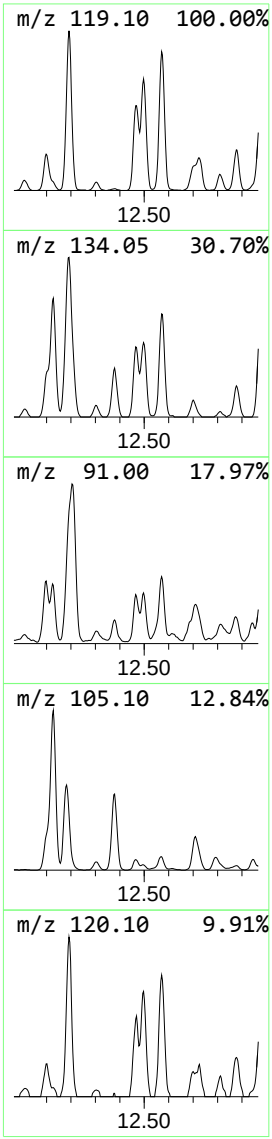
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.468 | 5.74 ug/L | 105055 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

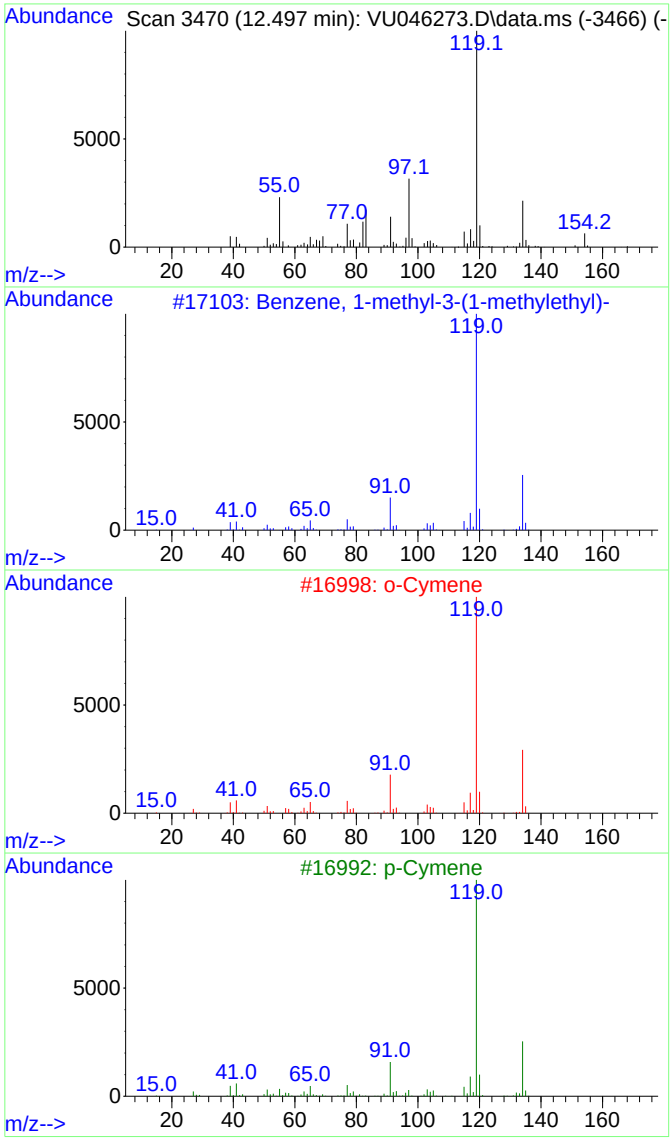
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

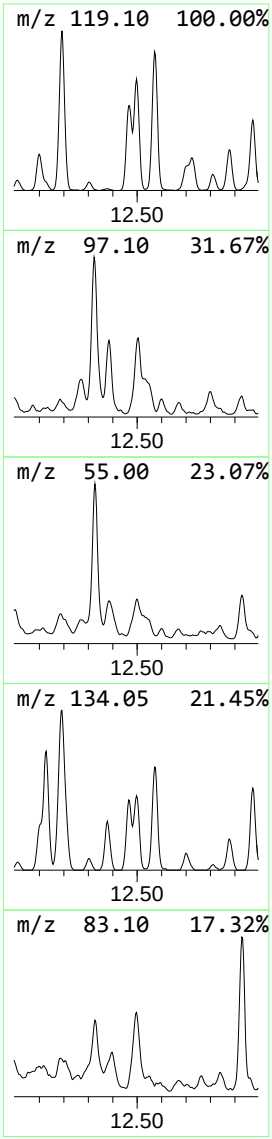
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 Benzene, 1-methyl-3-(1-meth... Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.497 | 5.13 ug/L | 93907 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 92 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 92 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 76 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 70 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 70 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

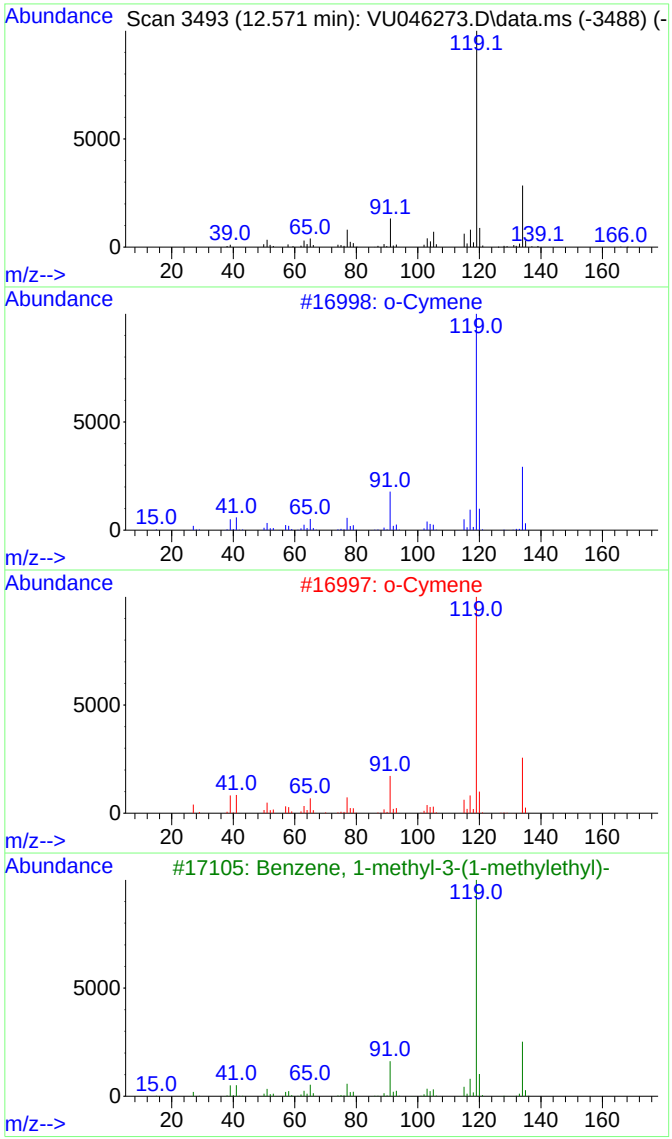
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

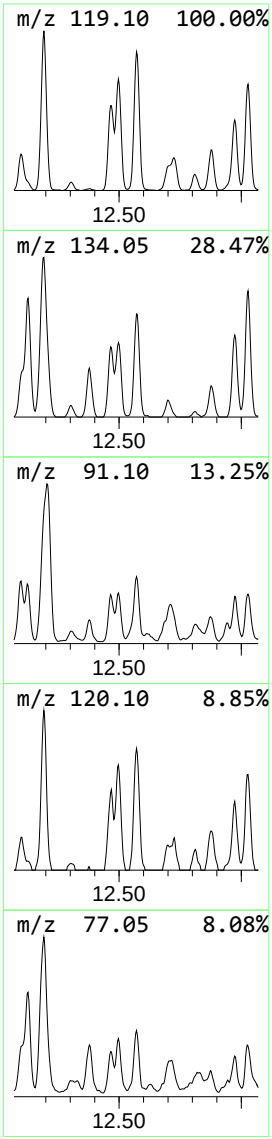
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 o-Cymene Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.571 | 5.90 ug/L | 108002 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 95 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

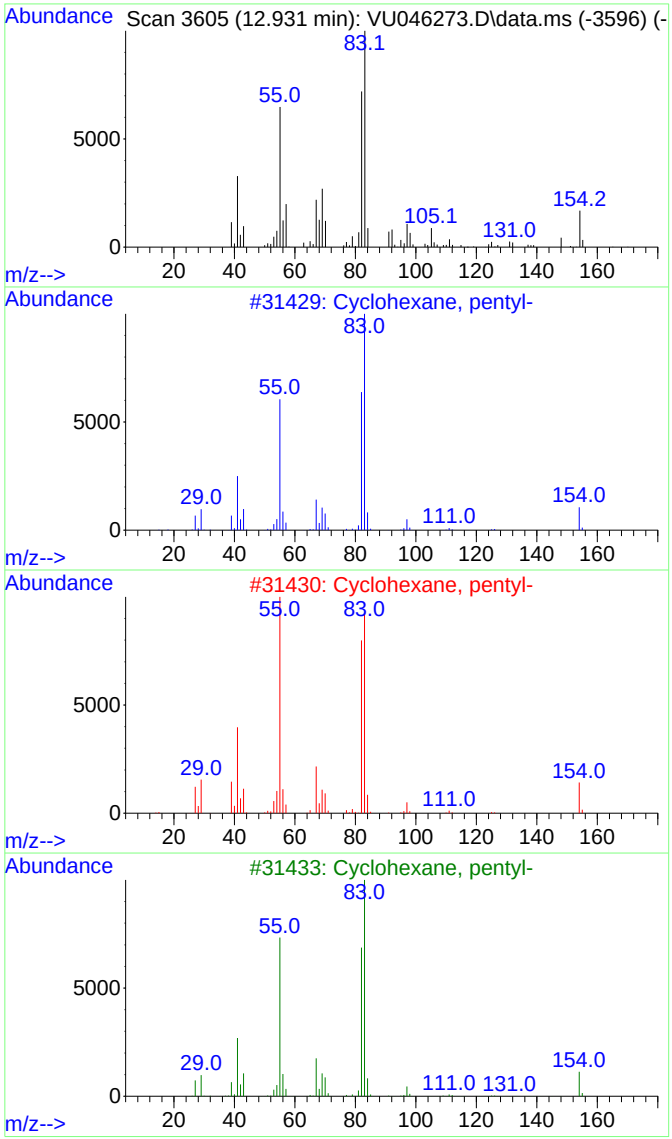
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

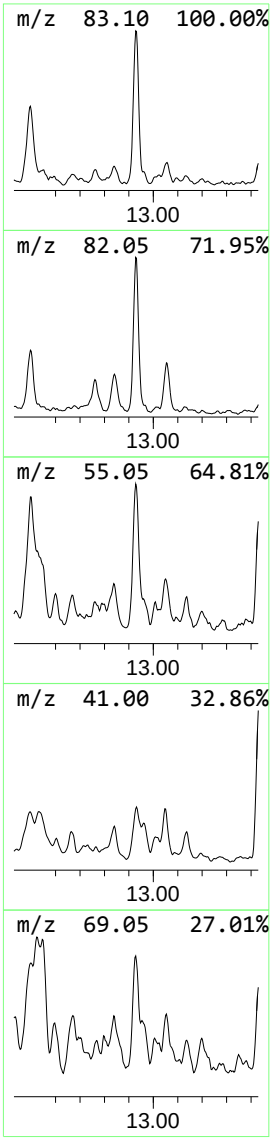
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 31 (DEL) Alkane: Cyclic12.931 Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.931 | 7.06 ug/L | 129340 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 87 |
| 2 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 87 |
| 3 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 87 |
| 4 | Cyclohexane, undecyl- | 238 | C17H34 | 054105-66-7 | 80 |
| 5 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

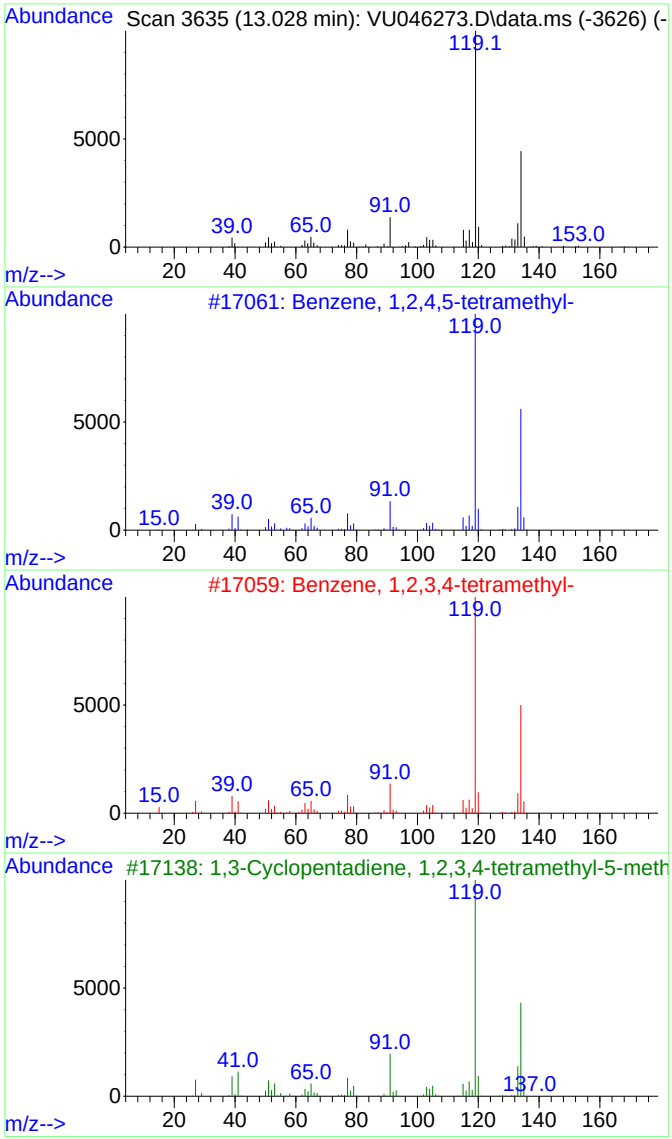
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

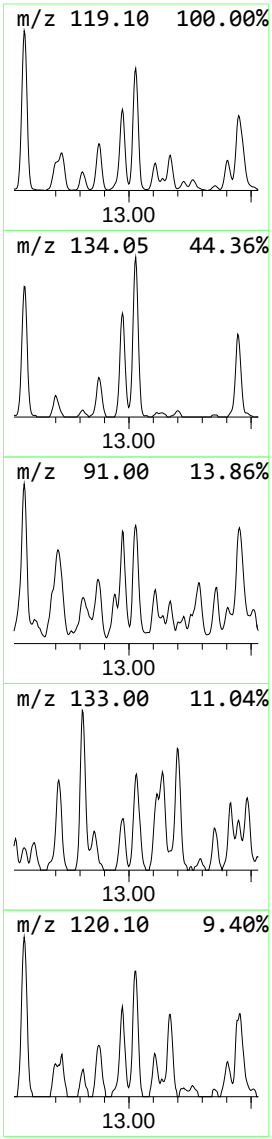
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 32 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.028 | 13.84 ug/L | 253401 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 3 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 95 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 95 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

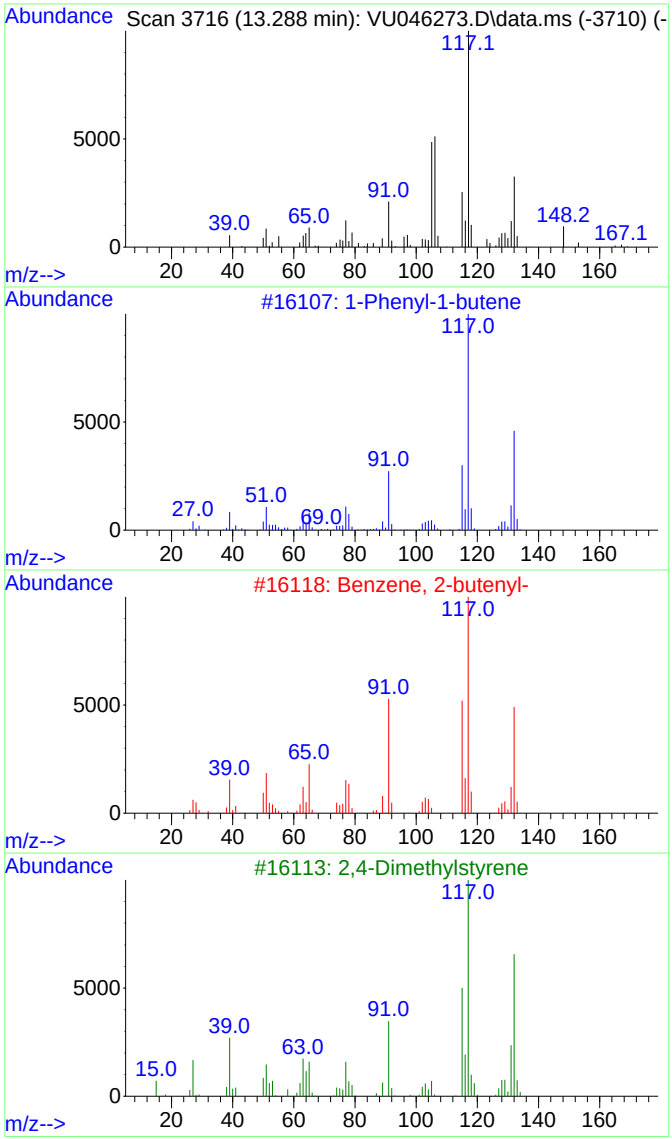
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

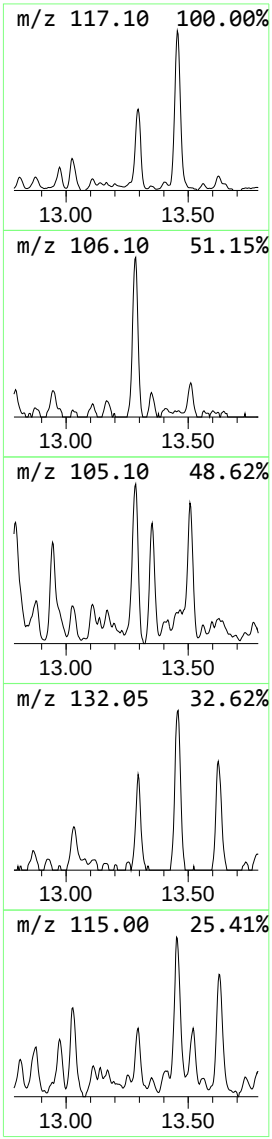
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 1-Phenyl-1-butene Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.288 | 3.45 ug/L | 63197 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 94 |
| 2 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 89 |
| 3 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 87 |
| 4 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 70 |
| 5 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 70 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

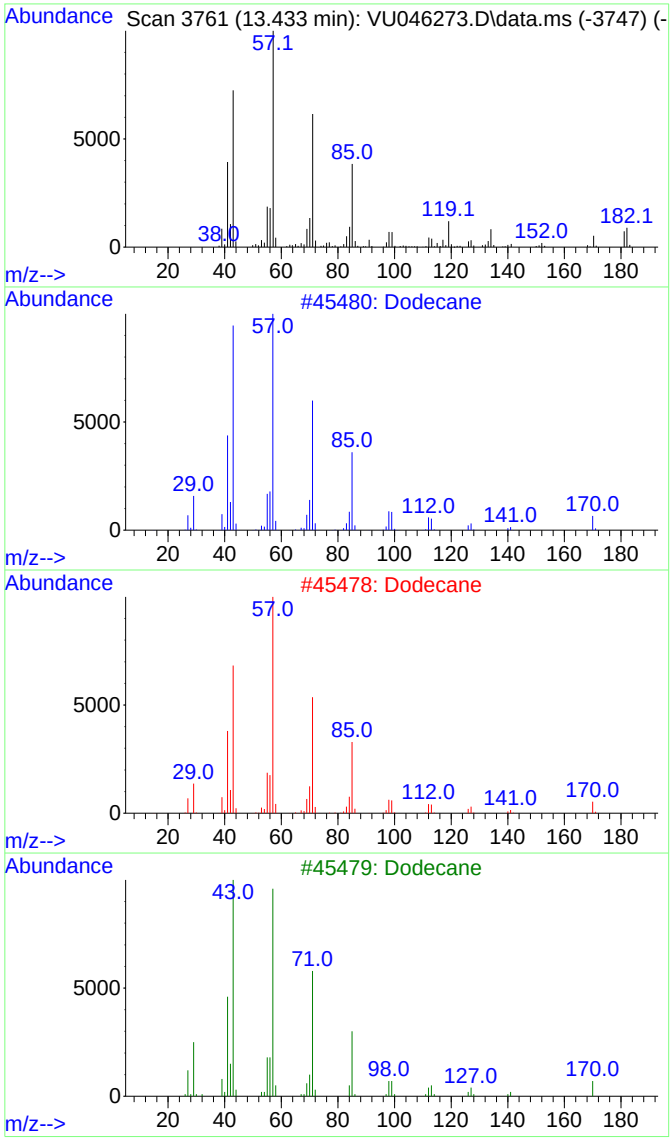
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

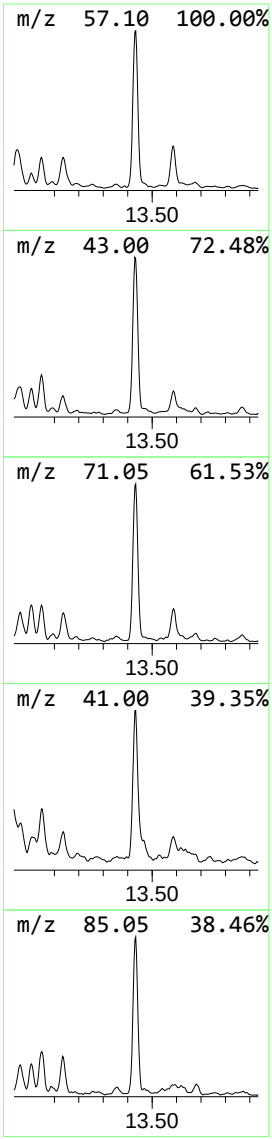
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.433 | 27.22 ug/L | 498458 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 96 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 96 |
| 3 | Dodecane | 170 | C12H26 | 000112-40-3 | 92 |
| 4 | Dodecane | 170 | C12H26 | 000112-40-3 | 81 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

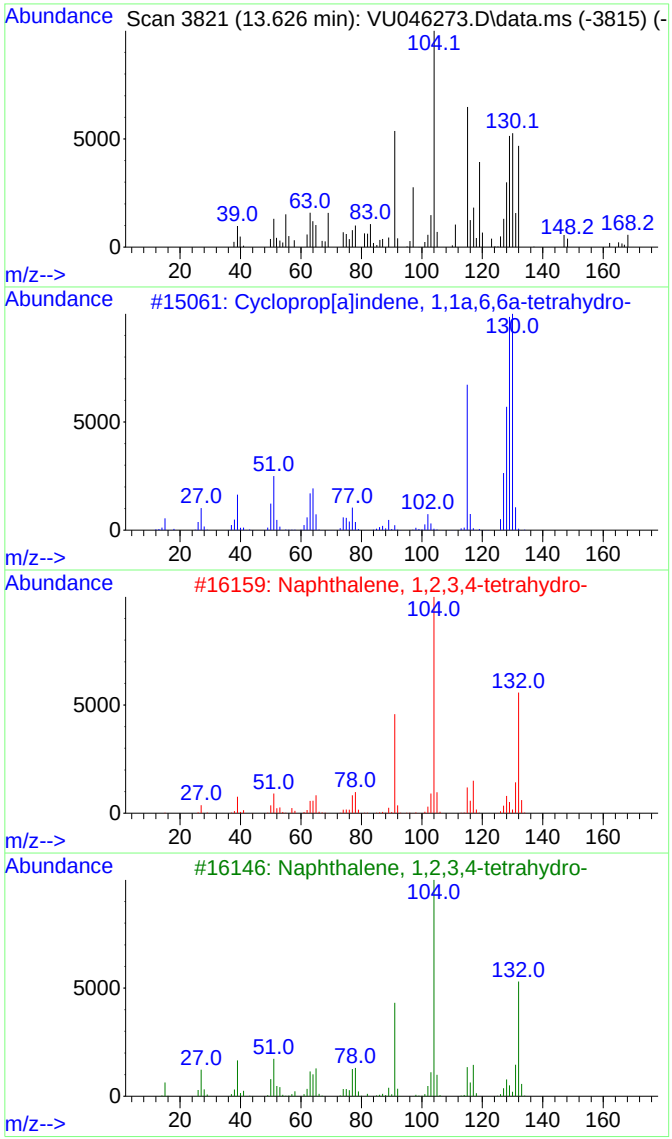
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

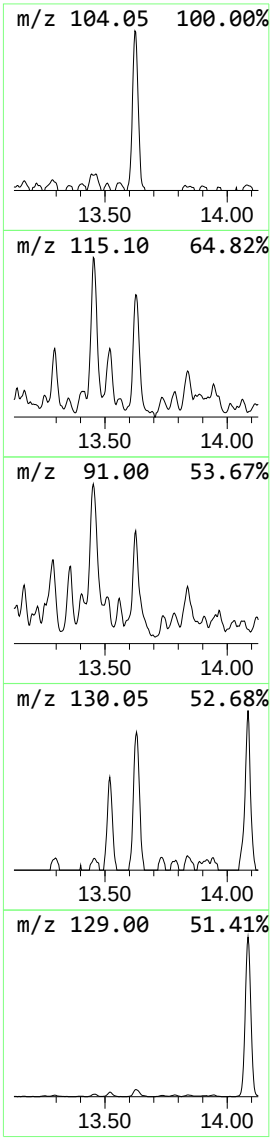
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 35 Cycloprop[a]indene, 1,1a,6,... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.626 | 9.48 ug/L | 173531 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 60 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 42 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 42 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 42 |
| 5 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 42 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

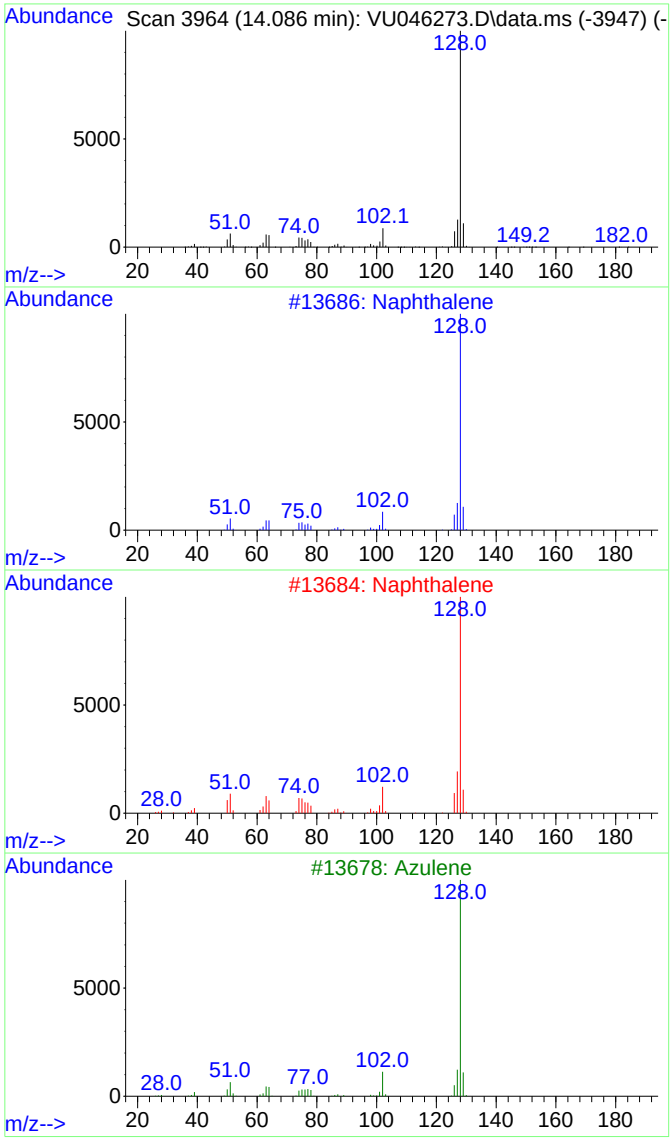
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

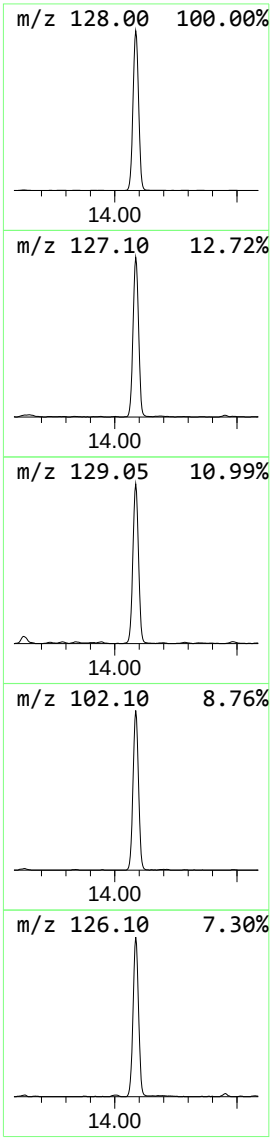
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 36 Azulene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.086 | 96.40 ug/L | 1765300 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 95 |
| 2 | Naphthalene | 128 | C10H8 | 000091-20-3 | 94 |
| 3 | Azulene | 128 | C10H8 | 000275-51-4 | 93 |
| 4 | Naphthalene | 128 | C10H8 | 000091-20-3 | 93 |
| 5 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

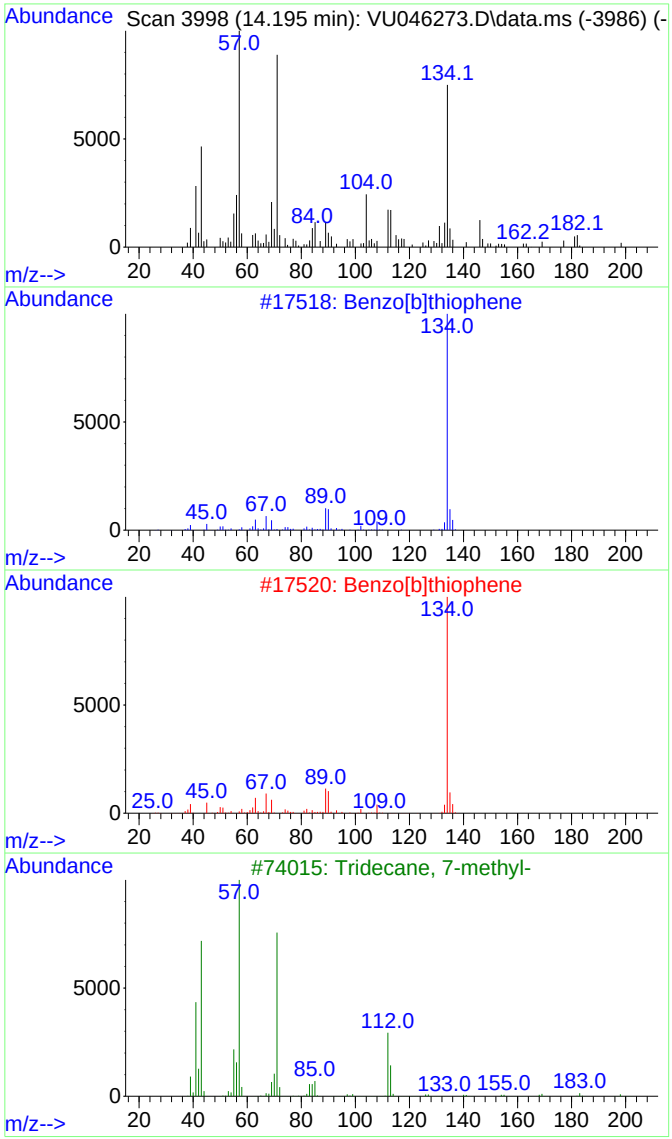
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

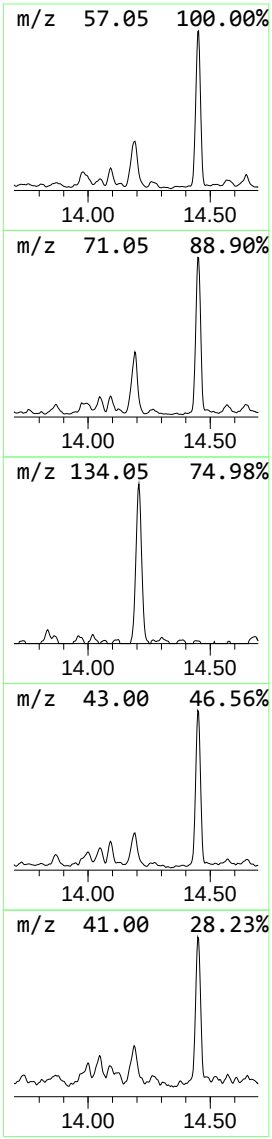
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 37 Benzo[b]thiophene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.195 | 7.16 ug/L | 131120 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 38 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 30 |
| 3 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 30 |
| 4 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 30 |
| 5 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 27 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

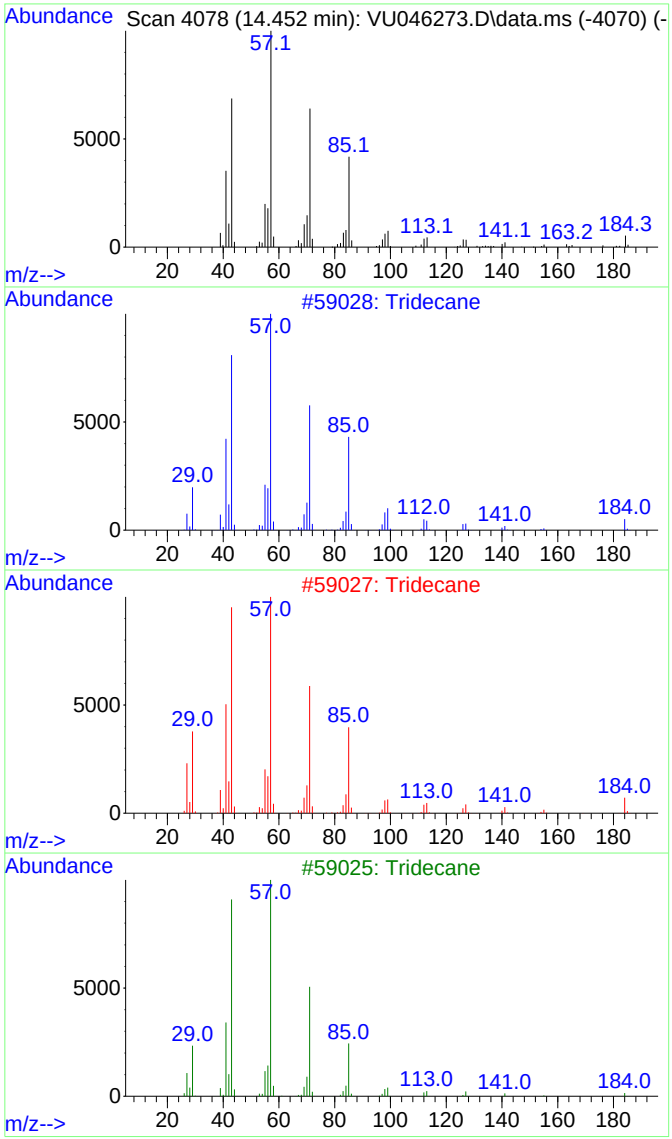
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

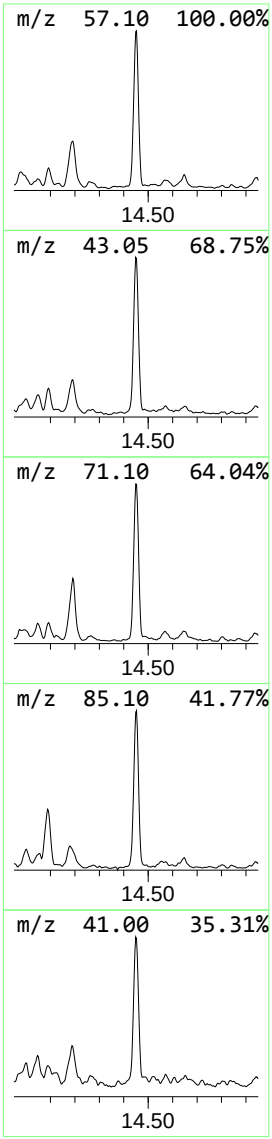
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 38 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.452 | 7.09 ug/L | 129759 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 97 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 95 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 91 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 86 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

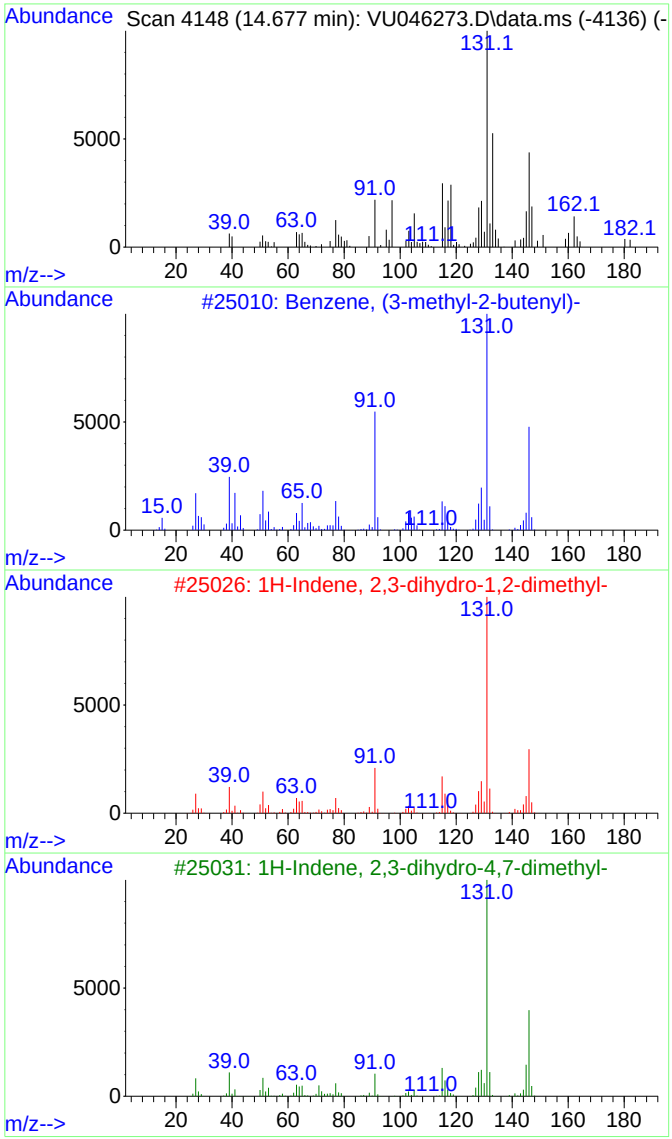
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

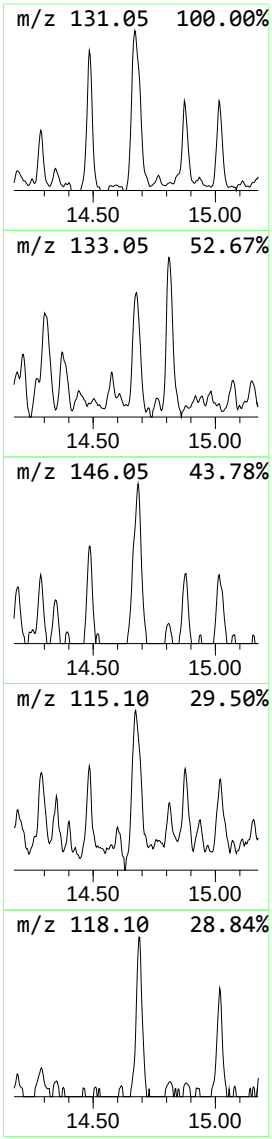
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 39 Benzene, (3-methyl-2-butenyl)- Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.677 | 3.28 ug/L | 60128 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 55 |
| 2 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 55 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 50 |
| 4 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 49 |
| 5 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

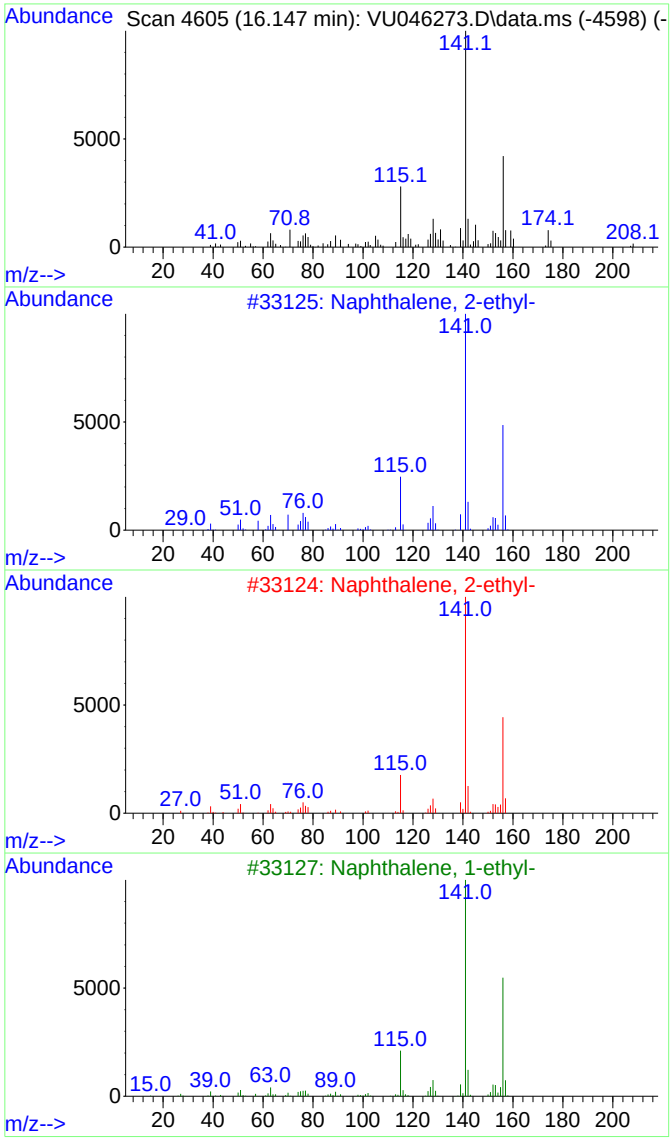
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

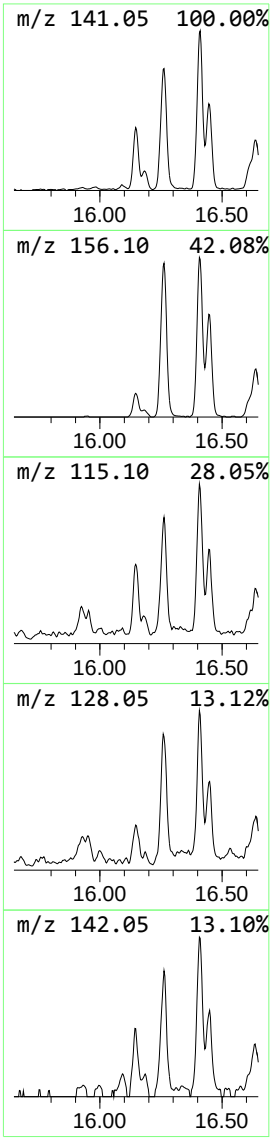
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 42 Naphthalene, 2-ethyl- Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.147 | 2.61 ug/L | 47765 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 91 |
| 2 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 90 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 87 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 87 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

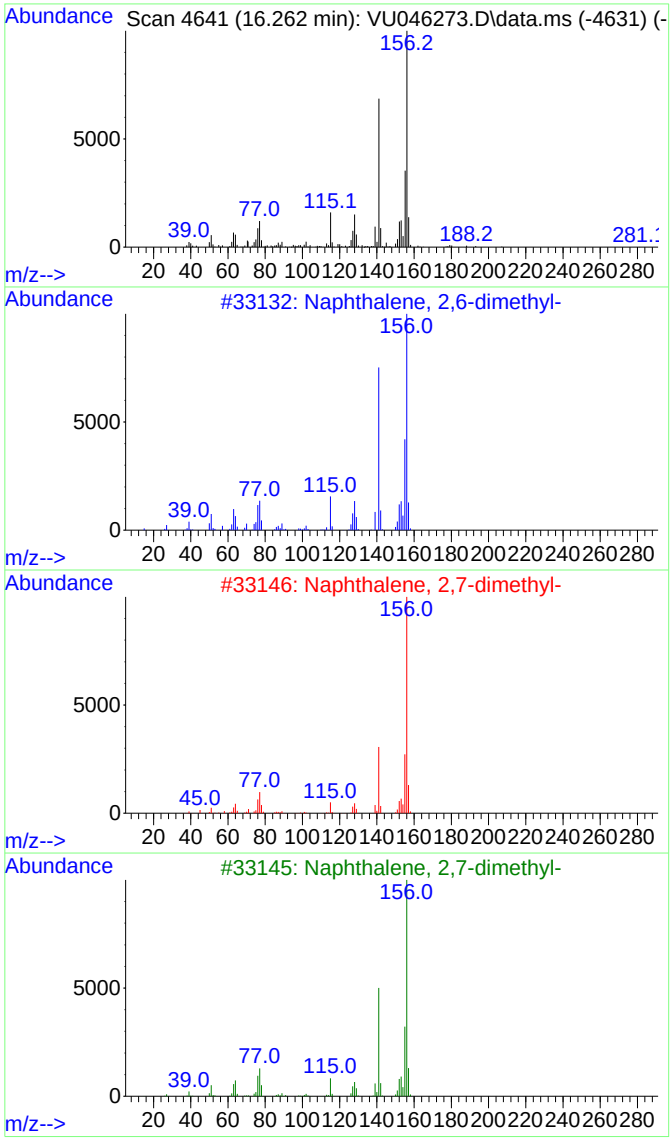
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

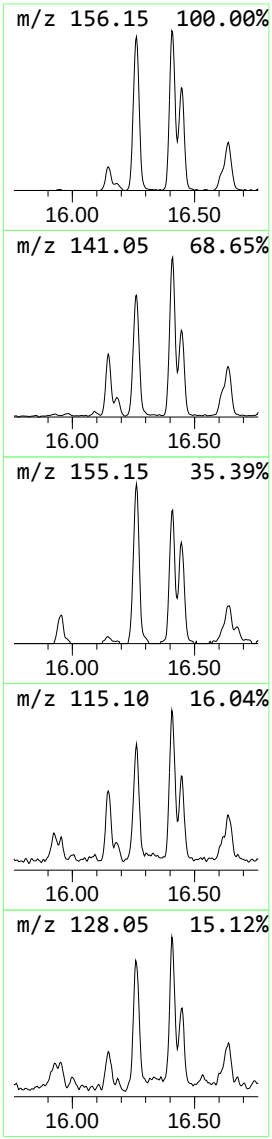
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 43 Naphthalene, 2,6-dimethyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.262 | 8.90 ug/L | 163053 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

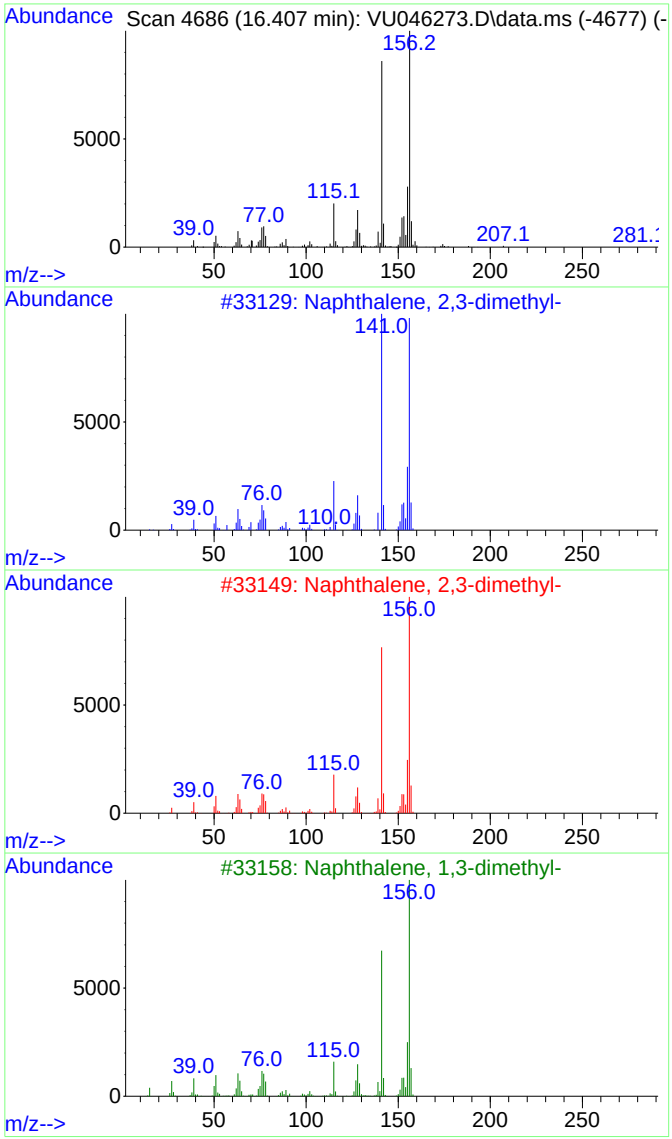
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

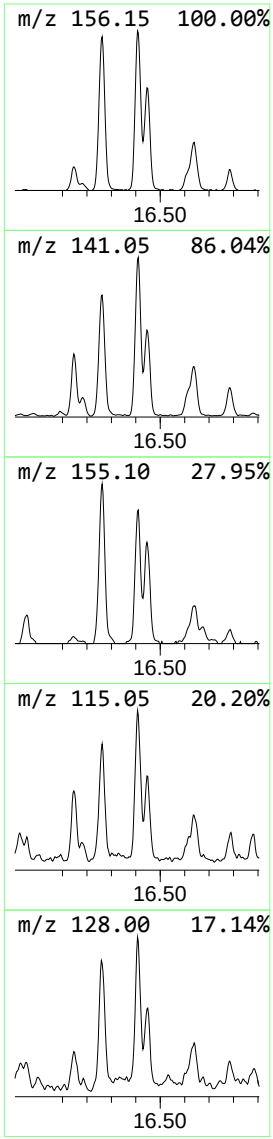
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 44 Naphthalene, 2,3-dimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.407 | 9.14 ug/L | 167331 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

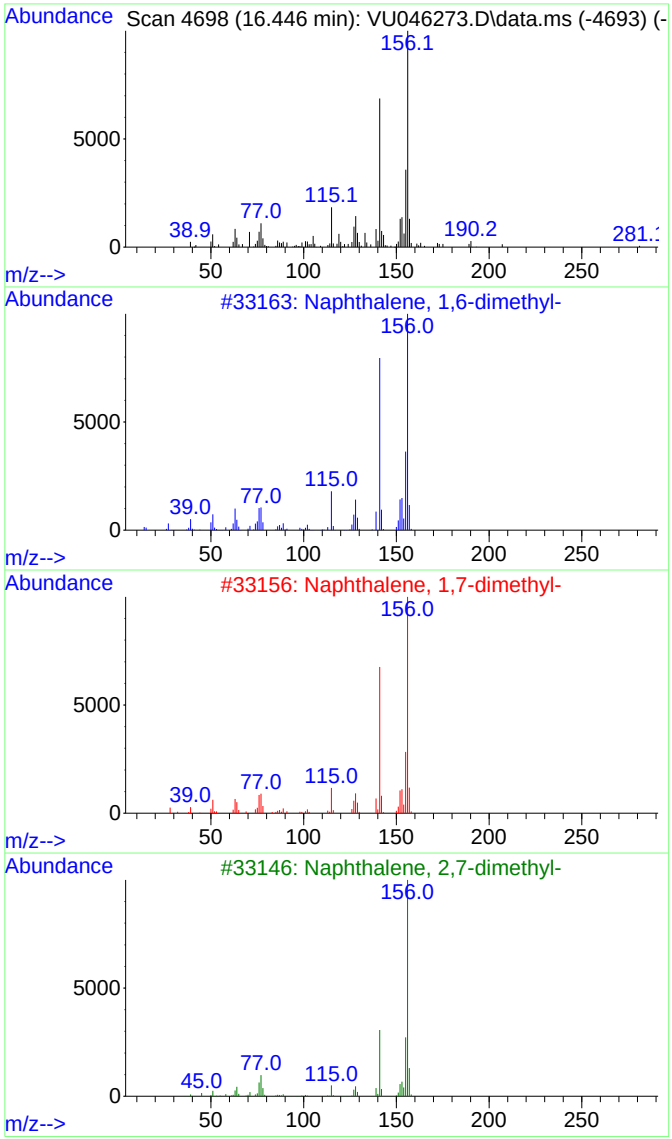
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

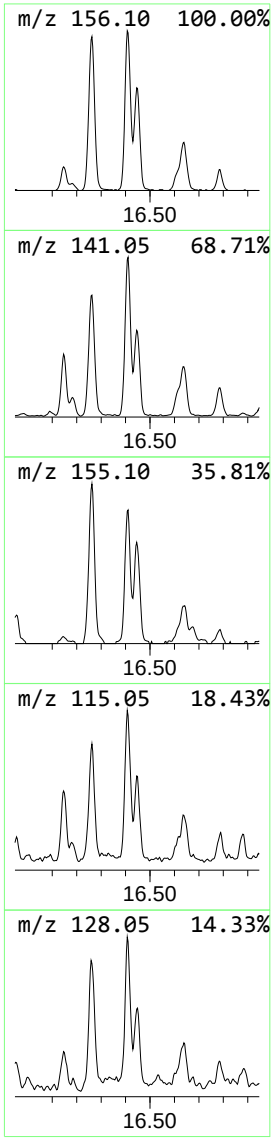
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 45 Naphthalene, 1,6-dimethyl- Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.446 | 6.37 ug/L | 116680 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

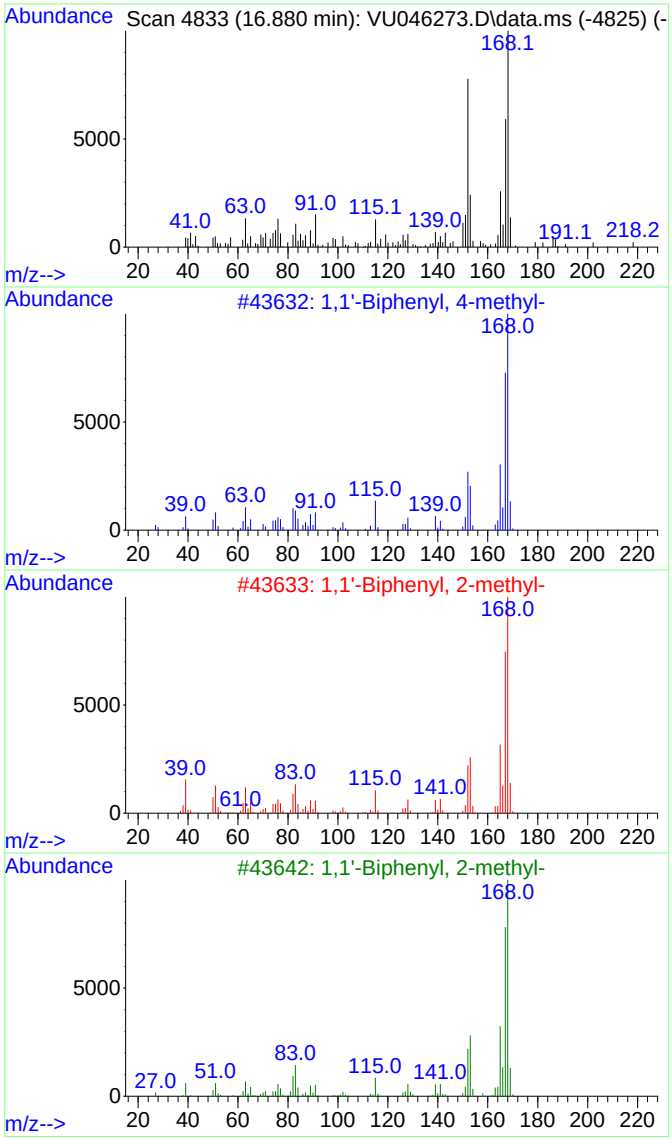
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

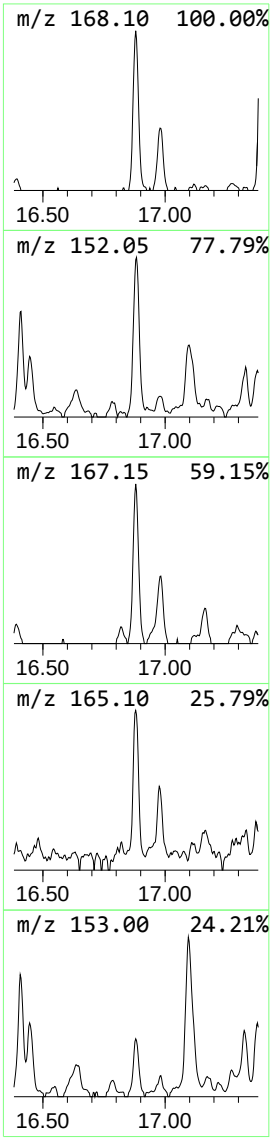
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 46 1,1'-Biphenyl, 4-methyl- Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.880 | 3.46 ug/L | 63302 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 93 |
| 2 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 91 |
| 3 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 78 |
| 4 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 60 |
| 5 | Naphthalene, 1-(2-propenyl)- | 168 | C13H12 | 002489-86-3 | 55 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

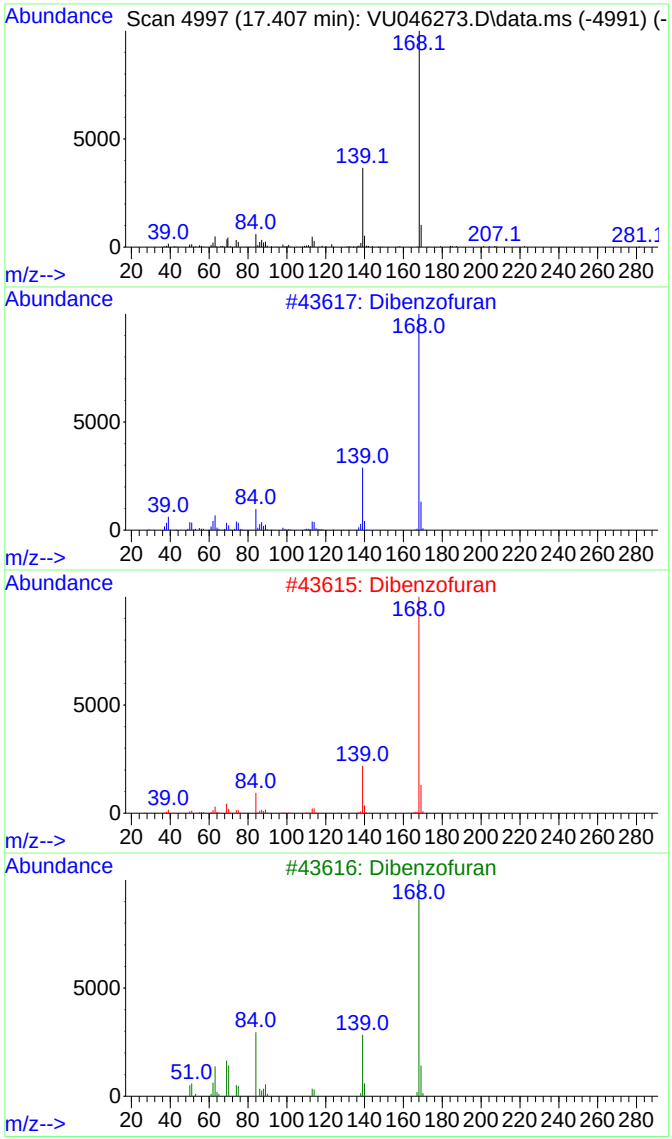
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

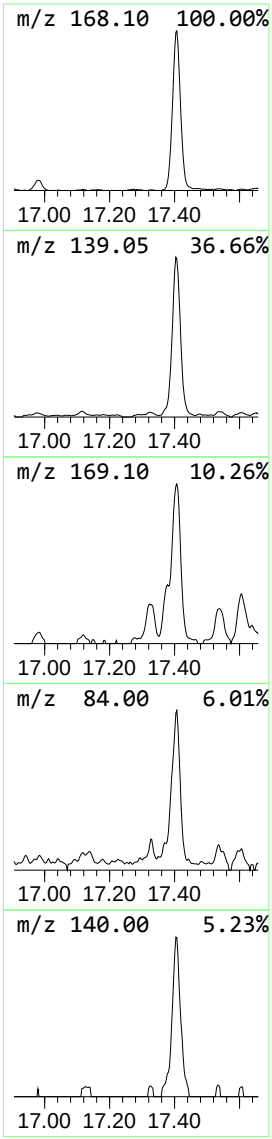
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 47 1H-Pyrido[2,3-b]indole Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.407 | 9.07 ug/L | 166166 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzofuran | 168 | C12H8O | 000132-64-9 | 86 |
| 2 | Dibenzofuran | 168 | C12H8O | 000132-64-9 | 72 |
| 3 | Dibenzofuran | 168 | C12H8O | 000132-64-9 | 64 |
| 4 | 1H-Pyrido[2,3-b]indole | 168 | C11H8N2 | 000244-76-8 | 59 |
| 5 | 1-Naphthalenecarbonitrile, 8-amino- | 168 | C11H8N2 | 038515-13-8 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

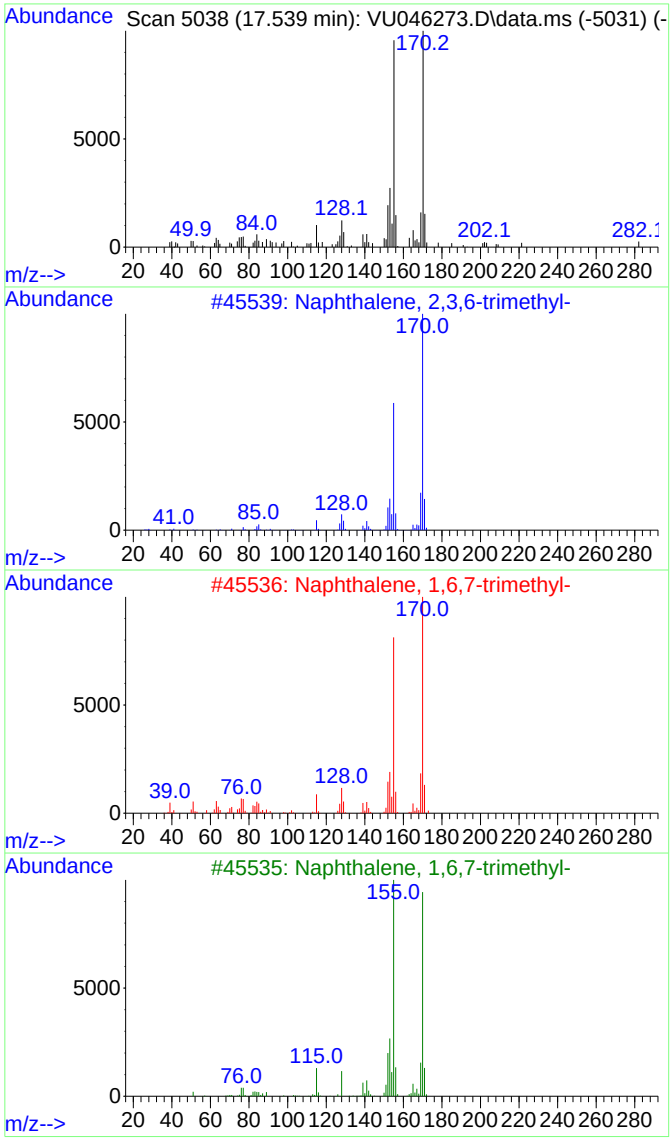
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

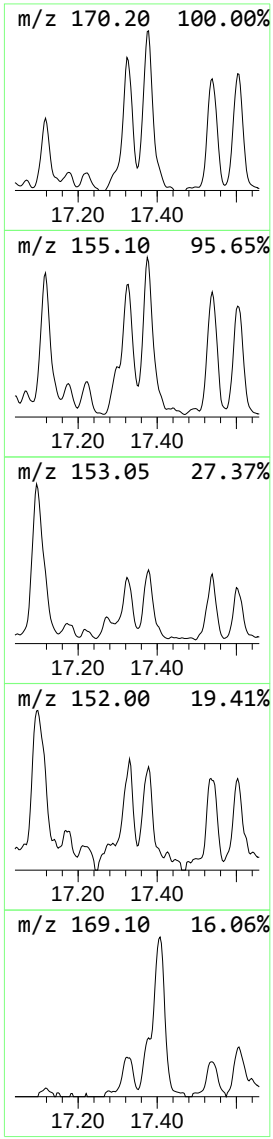
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 48 Naphthalene, 2,3,6-trimethyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.539 | 2.95 ug/L | 53954 | 1,4-Dichlorobenzene-d4 | 11.812 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 95 |
| 4 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 94 |
| 5 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046273.D
Acq On : 10 Dec 2021 18:15
Operator : SY/MD
Sample : M4943-02DL 20X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
BGKQ3DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: S... | 9.214 | 6.0 | ug/L | 87989 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 9.337 | 6.1 | ug/L | 89369 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 9.745 | 22.8 | ug/L | 334794 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 10.021 | 11.4 | ug/L | 167219 | 2 | 9.420 | 735673 | 50.0 |
| unknown-01 | 10.169 | 2.7 | ug/L | 39113 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 10.253 | 18.8 | ug/L | 277035 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: C... | 10.356 | 14.7 | ug/L | 216136 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 10.394 | 7.0 | ug/L | 103161 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 10.558 | 13.7 | ug/L | 201374 | 2 | 9.420 | 735673 | 50.0 |
| (DEL) Alkane: S... | 10.626 | 14.2 | ug/L | 259689 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 10.655 | 11.3 | ug/L | 206371 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 10.809 | 6.8 | ug/L | 124381 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, propyl- | 10.906 | 7.3 | ug/L | 133242 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: C... | 10.957 | 2.7 | ug/L | 49759 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1-ethy... | 10.999 | 38.3 | ug/L | 701448 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1-ethy... | 11.295 | 22.4 | ug/L | 409316 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 11.378 | 5.2 | ug/L | 94655 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 11.417 | 15.0 | ug/L | 275022 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 11.574 | 6.7 | ug/L | 121710 | 3 | 11.812 | 915609 | 50.0 |
| unknown-02 | 11.642 | 6.2 | ug/L | 113212 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: C... | 11.710 | 15.9 | ug/L | 291477 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 12.002 | 7.8 | ug/L | 143221 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1-prop... | 12.099 | 10.2 | ug/L | 187261 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 12.327 | 47.3 | ug/L | 865328 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1-meth... | 12.382 | 12.1 | ug/L | 221429 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 2-ethy... | 12.468 | 5.7 | ug/L | 105055 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1-meth... | 12.497 | 5.1 | ug/L | 93907 | 3 | 11.812 | 915609 | 50.0 |
| o-Cymene | 12.571 | 5.9 | ug/L | 108002 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: C... | 12.931 | 7.1 | ug/L | 129340 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, 1,2,4,... | 13.028 | 13.8 | ug/L | 253401 | 3 | 11.812 | 915609 | 50.0 |
| 1-Phenyl-1-butene | 13.288 | 3.5 | ug/L | 63197 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 13.433 | 27.2 | ug/L | 498458 | 3 | 11.812 | 915609 | 50.0 |
| Cycloprop[a]ind... | 13.626 | 9.5 | ug/L | 173531 | 3 | 11.812 | 915609 | 50.0 |
| Azulene | 14.086 | 96.4 | ug/L | 1765300 | 3 | 11.812 | 915609 | 50.0 |
| Benzo[b]thiophene | 14.195 | 7.2 | ug/L | 131120 | 3 | 11.812 | 915609 | 50.0 |
| (DEL) Alkane: S... | 14.452 | 7.1 | ug/L | 129759 | 3 | 11.812 | 915609 | 50.0 |
| Benzene, (3-met... | 14.677 | 3.3 | ug/L | 60128 | 3 | 11.812 | 915609 | 50.0 |
| Naphthalene, 2-... | 16.147 | 2.6 | ug/L | 47765 | 3 | 11.812 | 915609 | 50.0 |
| Naphthalene, 2,... | 16.262 | 8.9 | ug/L | 163053 | 3 | 11.812 | 915609 | 50.0 |
| Naphthalene, 2,... | 16.407 | 9.1 | ug/L | 167331 | 3 | 11.812 | 915609 | 50.0 |
| Naphthalene, 1,... | 16.446 | 6.4 | ug/L | 116680 | 3 | 11.812 | 915609 | 50.0 |
| 1,1'-Biphenyl, ... | 16.880 | 3.5 | ug/L | 63302 | 3 | 11.812 | 915609 | 50.0 |
| 1H-Pyrido[2,3-b... | 17.407 | 9.1 | ug/L | 166166 | 3 | 11.812 | 915609 | 50.0 |
| Naphthalene, 2,... | 17.539 | 3.0 | ug/L | 53954 | 3 | 11.812 | 915609 | 50.0 |