LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\82N051719W.M
Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.590 | 1790 | 1809 | 1820 | rBV | 231612 | 570800 | 8.17% | 0.916% |
| 2 | 7.667 | 1820 | 1833 | 1872 | rVB | 435798 | 1062774 | 15.22% | 1.705% |
| 3 | 8.027 | 1928 | 1945 | 1966 | rBV | 212099 | 495228 | 7.09% | 0.795% |
| 4 | 8.217 | 1979 | 2004 | 2038 | rBV3 | 33043 | 183513 | 2.63% | 0.294% |
| 5 | 8.587 | 2102 | 2119 | 2169 | rVB | 571946 | 1236459 | 17.70% | 1.984% |
| 6 | 10.091 | 2572 | 2587 | 2617 | rVB | 908631 | 1811158 | 25.93% | 2.906% |
| 7 | 10.432 | 2684 | 2693 | 2712 | rVB | 43877 | 83213 | 1.19% | 0.134% |
| 8 | 10.718 | 2771 | 2782 | 2795 | rVB | 73235 | 126022 | 1.80% | 0.202% |
| 9 | 10.818 | 2795 | 2813 | 2826 | rBV | 60503 | 132940 | 1.90% | 0.213% |
| 10 | 10.953 | 2846 | 2855 | 2862 | rBV | 107257 | 162082 | 2.32% | 0.260% |
| 11 | 11.004 | 2862 | 2871 | 2882 | rVB | 197724 | 343003 | 4.91% | 0.550% |
| 12 | 11.123 | 2896 | 2908 | 2916 | rBV3 | 152612 | 278206 | 3.98% | 0.446% |
| 13 | 11.207 | 2916 | 2934 | 2950 | rVB5 | 236746 | 698944 | 10.01% | 1.121% |
| 14 | 11.297 | 2950 | 2962 | 2982 | rBV | 258176 | 498011 | 7.13% | 0.799% |
| 15 | 11.406 | 2983 | 2996 | 3014 | rBV | 791372 | 1486807 | 21.29% | 2.385% |
| 16 | 11.490 | 3014 | 3022 | 3029 | rBV3 | 42581 | 79927 | 1.14% | 0.128% |
| 17 | 11.541 | 3030 | 3038 | 3045 | rBV | 125717 | 190864 | 2.73% | 0.306% |
| 18 | 11.596 | 3045 | 3055 | 3061 | rBV6 | 204116 | 434198 | 6.22% | 0.697% |
| 19 | 11.654 | 3065 | 3073 | 3081 | rVV2 | 535145 | 875264 | 12.53% | 1.404% |
| 20 | 11.696 | 3082 | 3086 | 3097 | rVB2 | 467101 | 703840 | 10.08% | 1.129% |
| 21 | 11.757 | 3097 | 3105 | 3111 | rBV3 | 107883 | 190663 | 2.73% | 0.306% |
| 22 | 11.811 | 3112 | 3122 | 3126 | rBV2 | 82329 | 154320 | 2.21% | 0.248% |
| 23 | 11.850 | 3127 | 3134 | 3142 | rVB3 | 308339 | 474771 | 6.80% | 0.762% |
| 24 | 11.924 | 3143 | 3157 | 3168 | rBV6 | 1056162 | 2542681 | 36.40% | 4.079% |
| 25 | 12.043 | 3187 | 3194 | 3202 | rVB | 1299005 | 1744223 | 24.97% | 2.798% |
| 26 | 12.120 | 3210 | 3218 | 3223 | rBV3 | 825168 | 1331058 | 19.06% | 2.135% |
| 27 | 12.162 | 3224 | 3231 | 3249 | rVB4 | 1659623 | 3150677 | 45.11% | 5.055% |
| 28 | 12.294 | 3265 | 3272 | 3279 | rBV6 | 515912 | 909086 | 13.02% | 1.458% |
| 29 | 12.336 | 3280 | 3285 | 3295 | rVB2 | 1307180 | 1953619 | 27.97% | 3.134% |
| 30 | 12.403 | 3295 | 3306 | 3316 | rBV4 | 933538 | 1750836 | 25.07% | 2.809% |
| 31 | 12.487 | 3317 | 3332 | 3339 | rBV8 | 390349 | 1090409 | 15.61% | 1.749% |
| 32 | 12.561 | 3348 | 3355 | 3371 | rVB3 | 1191192 | 2734712 | 39.15% | 4.387% |
| 33 | 12.644 | 3371 | 3381 | 3387 | rBV7 | 553343 | 1081143 | 15.48% | 1.735% |
| 34 | 12.728 | 3388 | 3407 | 3416 | rVV5 | 1626109 | 5344275 | 76.51% | 8.574% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\82N051719W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.779 | 3417 | 3423 | 3433 | rVB4 | 850739 | 1416320 | 20.28% | 2.272% |
| 36 | 12.869 | 3444 | 3451 | 3458 | rBV6 | 484840 | 666986 | 9.55% | 1.070% |
| 37 | 12.959 | 3472 | 3479 | 3492 | rVB2 | 1971458 | 3308280 | 47.36% | 5.308% |
| 38 | 13.040 | 3493 | 3504 | 3513 | rBV | 4322939 | 6984784 | 100.00% | 11.206% |
| 39 | 13.165 | 3532 | 3543 | 3551 | rVB6 | 530190 | 1252984 | 17.94% | 2.010% |
| 40 | 13.239 | 3552 | 3566 | 3573 | rBV3 | 1276160 | 2493458 | 35.70% | 4.000% |
| 41 | 13.284 | 3575 | 3580 | 3588 | rVB3 | 686860 | 966858 | 13.84% | 1.551% |
| 42 | 13.342 | 3592 | 3598 | 3605 | rBV | 414933 | 565772 | 8.10% | 0.908% |
| 43 | 13.593 | 3668 | 3676 | 3688 | rBV3 | 459690 | 1027464 | 14.71% | 1.648% |
| 44 | 13.660 | 3689 | 3697 | 3707 | rVV4 | 1063774 | 1978956 | 28.33% | 3.175% |
| 45 | 13.709 | 3708 | 3712 | 3721 | rVB2 | 267748 | 363691 | 5.21% | 0.583% |
| 46 | 13.799 | 3736 | 3740 | 3745 | rBV3 | 222688 | 309046 | 4.42% | 0.496% |
| 47 | 13.831 | 3746 | 3750 | 3760 | rVV4 | 545784 | 780667 | 11.18% | 1.252% |
| 48 | 13.885 | 3761 | 3767 | 3776 | rVB | 682970 | 1042779 | 14.93% | 1.673% |
| 49 | 13.991 | 3791 | 3800 | 3809 | rVB5 | 372258 | 629824 | 9.02% | 1.010% |
| 50 | 14.178 | 3849 | 3858 | 3873 | rVV6 | 312988 | 859091 | 12.30% | 1.378% |
| 51 | 14.245 | 3874 | 3879 | 3887 | rVB | 321001 | 438257 | 6.27% | 0.703% |
| 52 | 14.294 | 3888 | 3894 | 3899 | rBV3 | 99131 | 128585 | 1.84% | 0.206% |
| 53 | 14.329 | 3900 | 3905 | 3913 | rVB4 | 151407 | 194139 | 2.78% | 0.311% |
| 54 | 14.480 | 3944 | 3952 | 3959 | rBV5 | 45586 | 99898 | 1.43% | 0.160% |
| 55 | 14.522 | 3961 | 3965 | 3973 | rVV3 | 93946 | 123383 | 1.77% | 0.198% |
| 56 | 14.580 | 3973 | 3983 | 3995 | rVV2 | 336913 | 647081 | 9.26% | 1.038% |
| 57 | 14.644 | 3996 | 4003 | 4014 | rVB3 | 86662 | 146593 | 2.10% | 0.235% |

Sum of corrected areas: 62330622

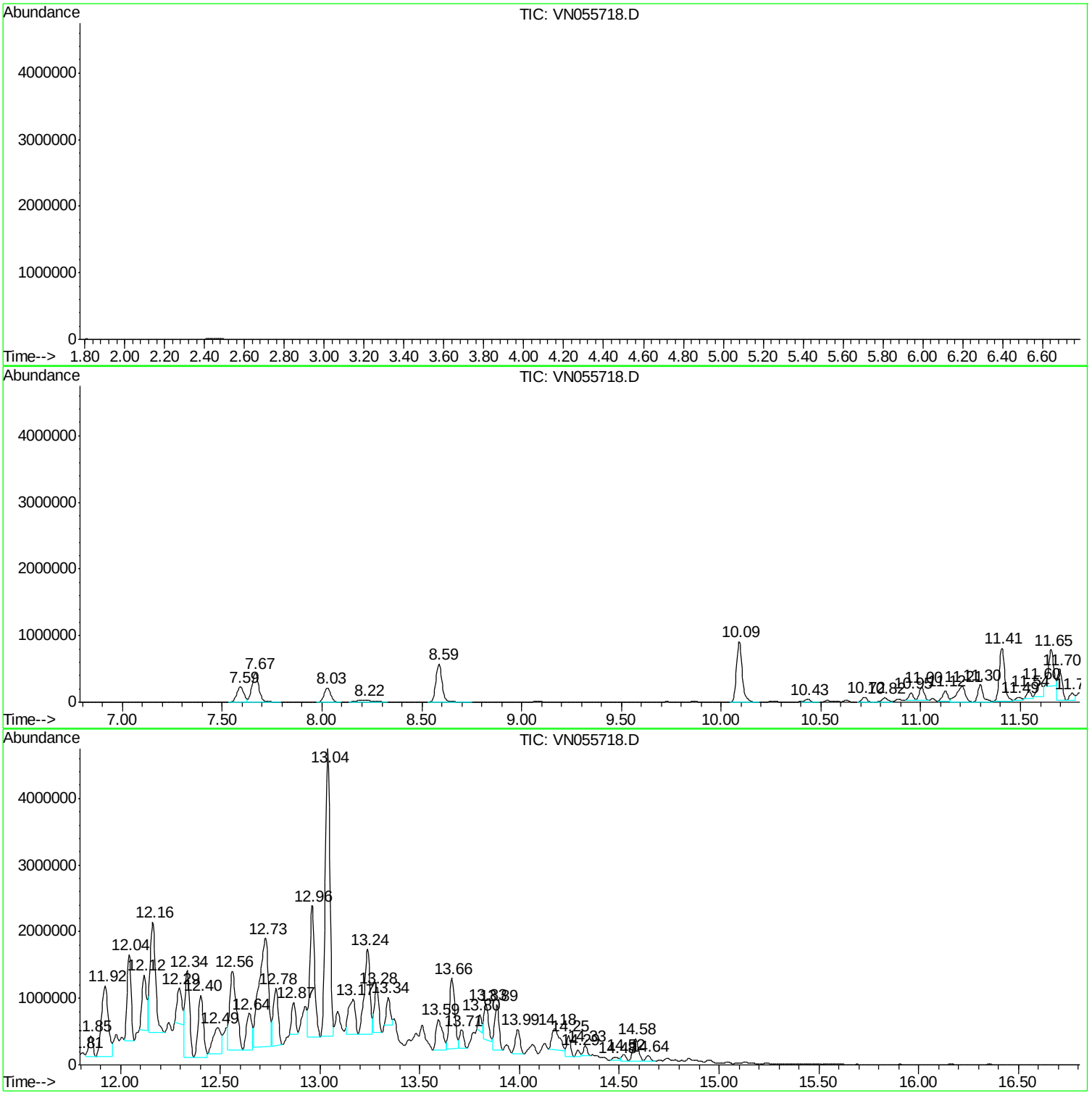
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

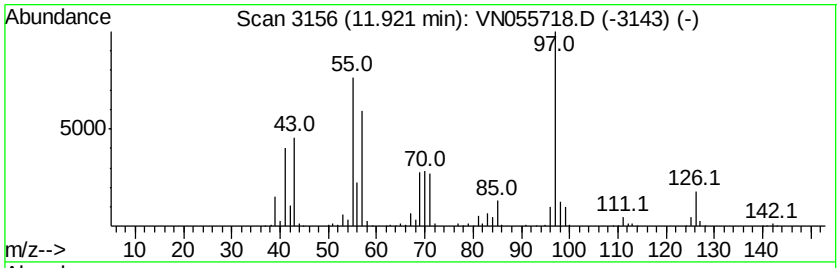
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

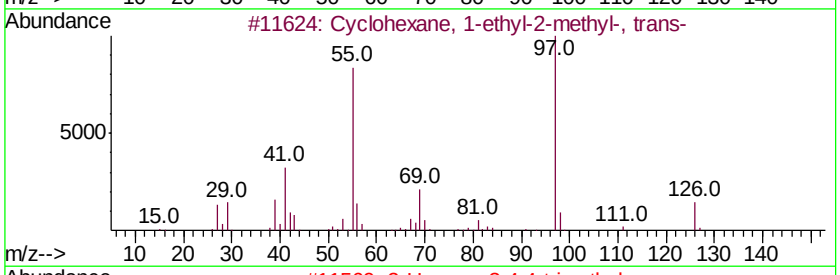
**********

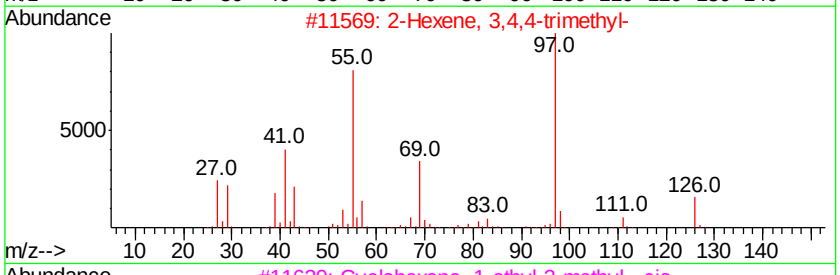
Peak Number 1 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 8

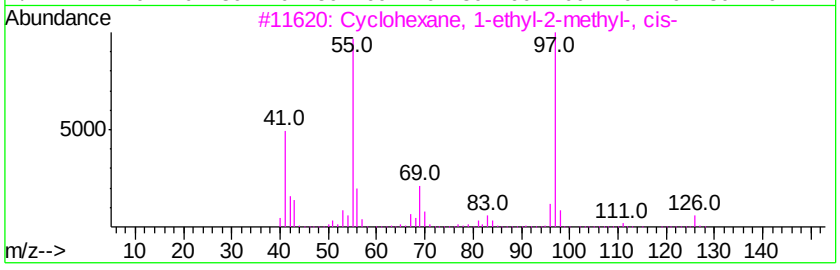
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 85.51 ug/l | 2542680 | Chlorobenzene-d5 | 11.41 |

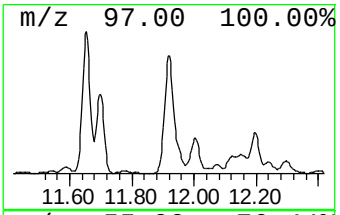
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 55 |
| 2 | 2-Hexene, 3,4,4-trimethyl- | 126 | C9H18 | 053941-19-8 | 46 |
| 3 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-77-7 | 43 |
| 4 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 43 |
| 5 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 43 |

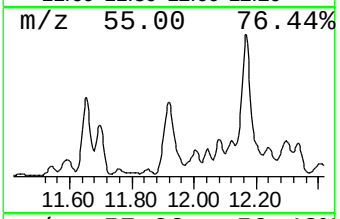


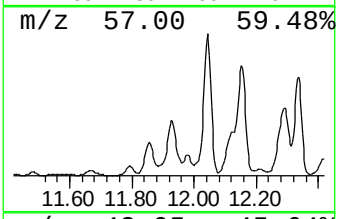



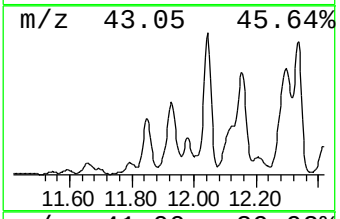



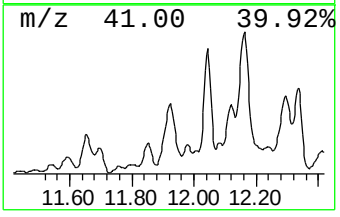



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

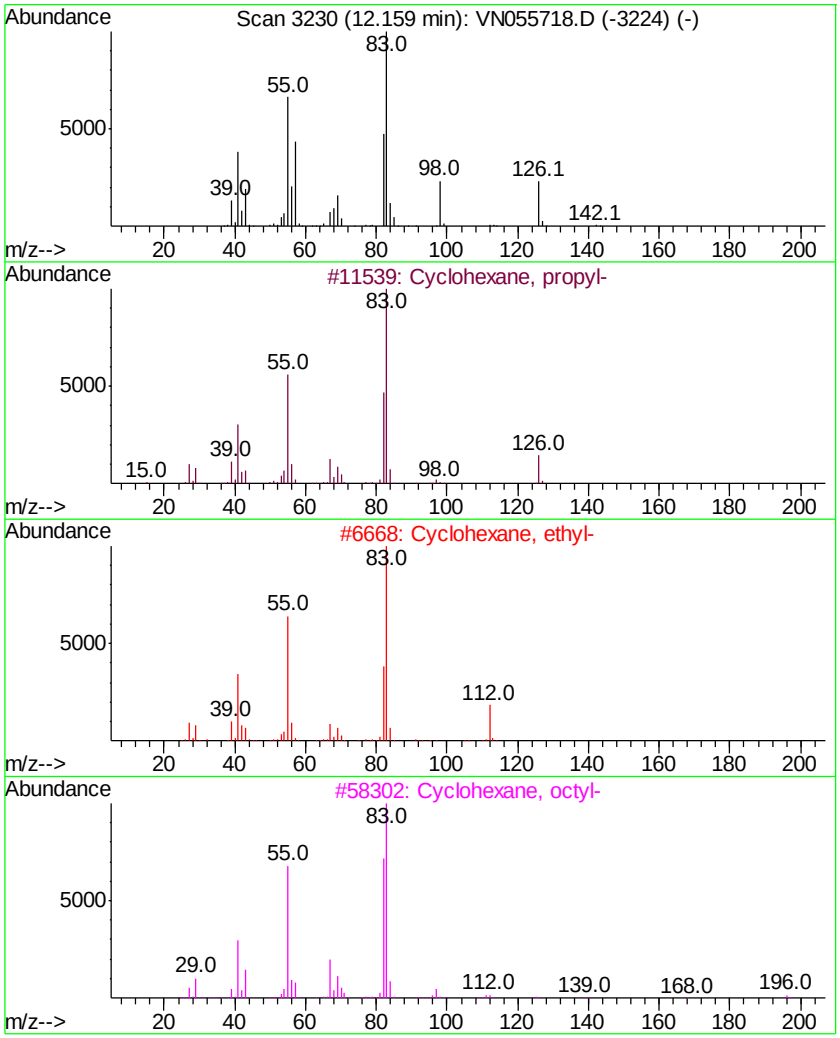
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

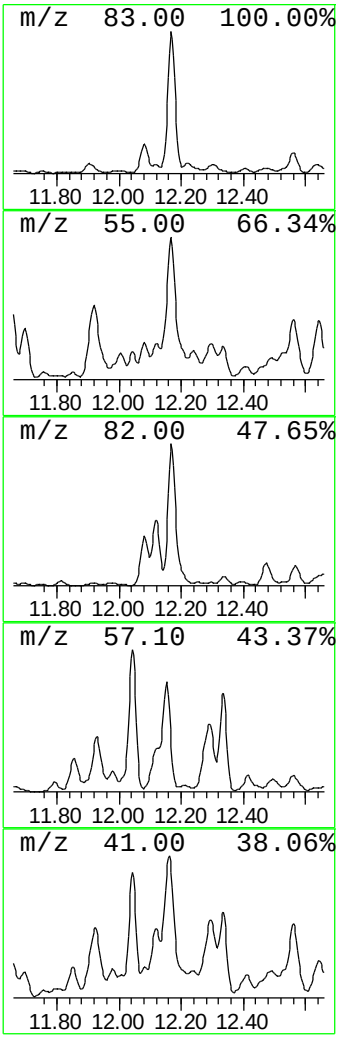
**********

Peak Number 2 Cyclohexane, propyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.16 | 105.95 ug/l | 3150680 | Chlorobenzene-d5 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 86 |
| 2 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 64 |
| 3 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 64 |
| 4 | Cyclopentane, 1-ethyl-1-methyl- | 112 | C8H16 | 016747-50-5 | 53 |
| 5 | 2-Pentene, 4,4-dimethyl-, (E)- | 98 | C7H14 | 000690-08-4 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

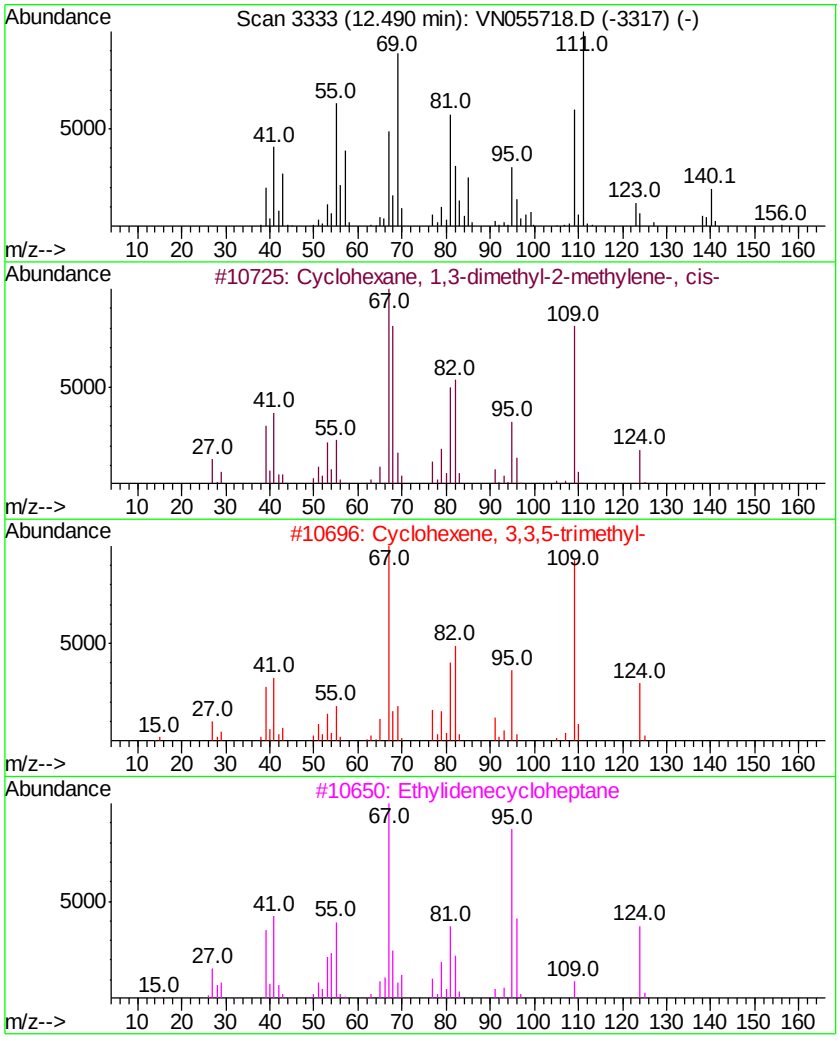
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

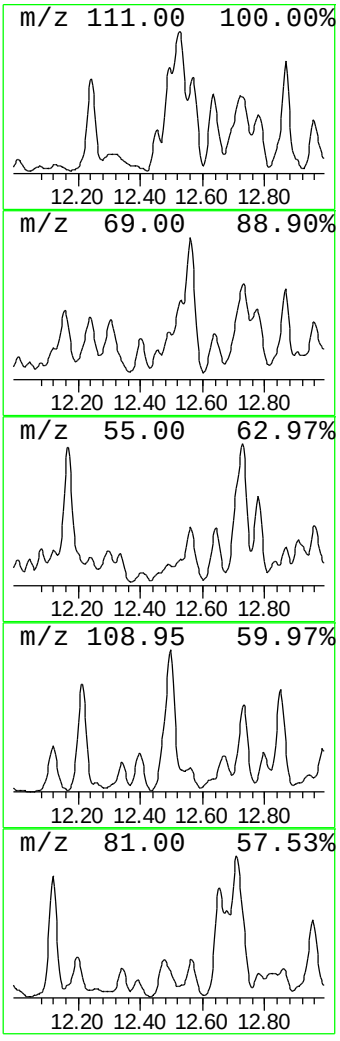
**********

Peak Number 3 unknown12.49 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 96.36 ug/l | 1090410 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-2-meth... | 124 | C9H16 | 019781-47-6 | 42 |
| 2 | Cyclohexene, 3,3,5-trimethyl- | 124 | C9H16 | 000503-45-7 | 41 |
| 3 | Ethylidenecycloheptane | 124 | C9H16 | 010494-87-8 | 35 |
| 4 | 9-Octadecyne | 250 | C18H34 | 035365-59-4 | 30 |
| 5 | 1-Tetradecyne | 194 | C14H26 | 000765-10-6 | 30 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

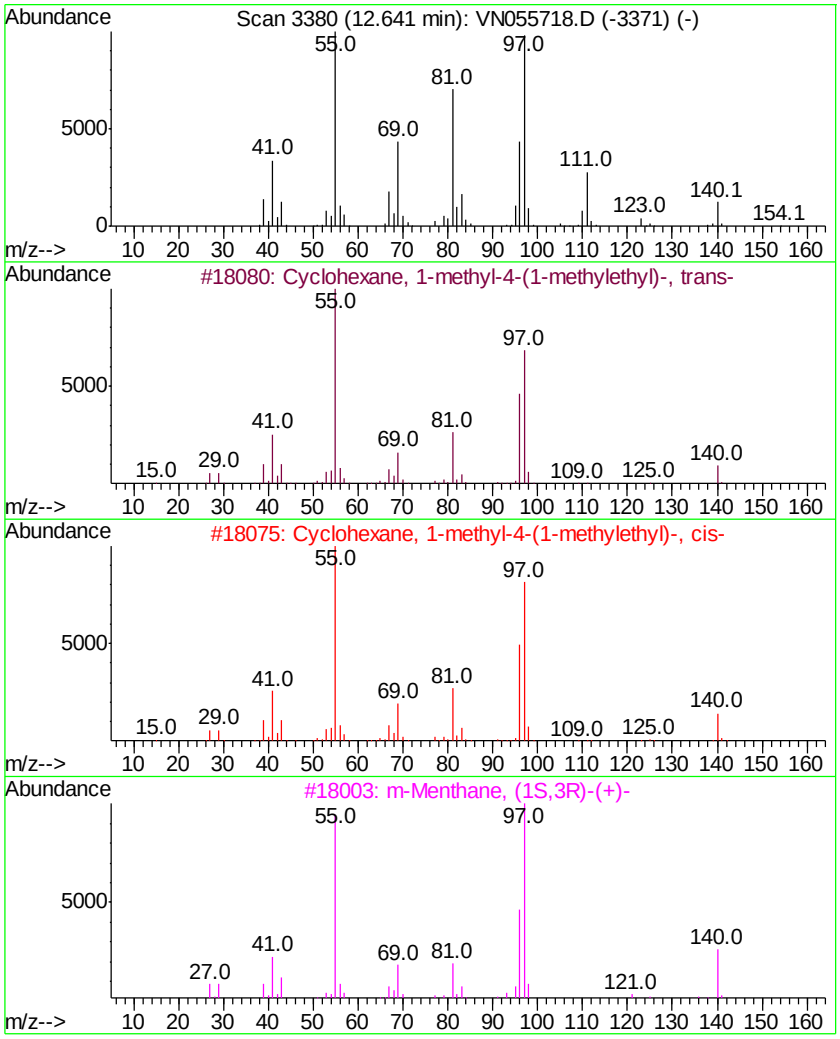
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

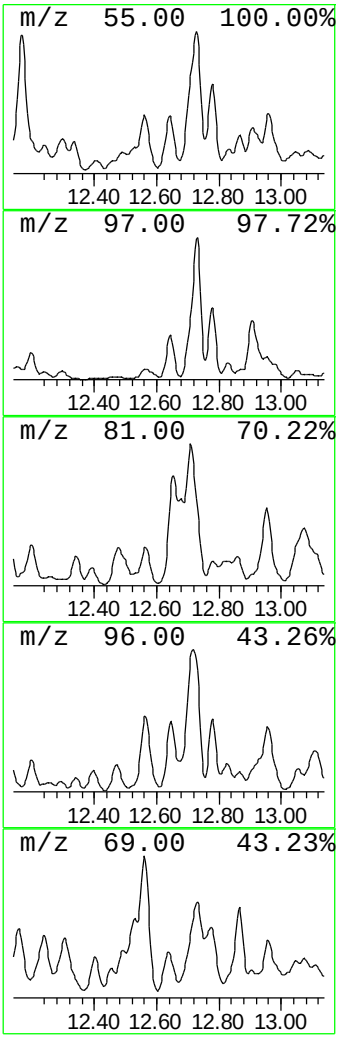
**********

Peak Number 4 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.64 | 95.55 ug/l | 1081140 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 001678-82-6 | 53 |
| 2 | Cyclohexane, 1-methyl-4-(1-methy... | 140 | C10H20 | 006069-98-3 | 53 |
| 3 | m-Menthane, (1S,3R)-(+)- | 140 | C10H20 | 013837-66-6 | 49 |
| 4 | 1-Methyl-4-(1-methylethyl)-cyclo... | 140 | C10H20 | 000099-82-1 | 49 |
| 5 | Trans-1-methyl-2-nonyl-cyclohexane | 224 | C16H32 | 1000371-47-8 | 47 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

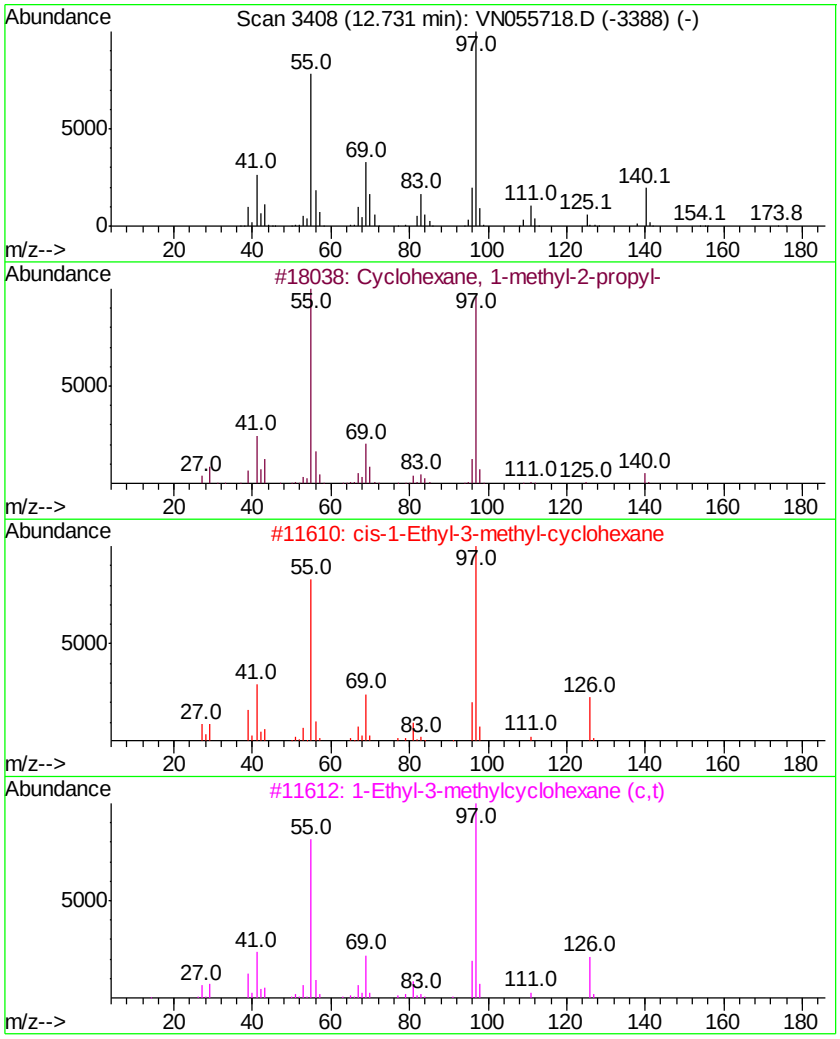
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

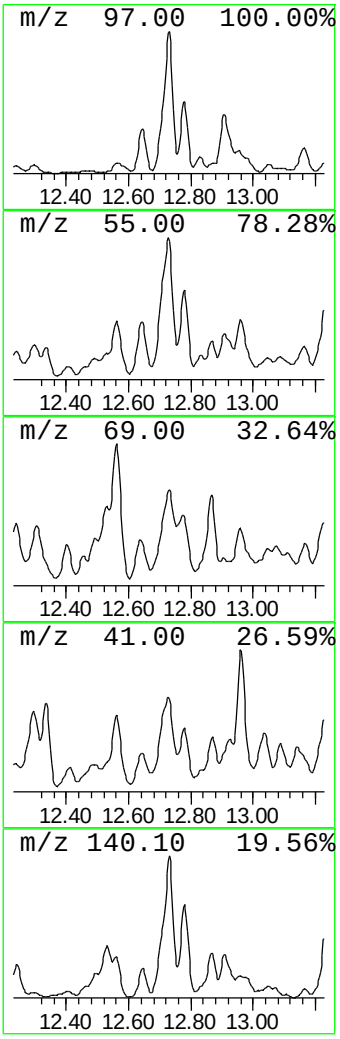
**********

Peak Number 5 Cyclohexane, 1-methyl-2-pro... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.73 | 472.30 ug/l | 5344280 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-methyl-2-propyl- | 140 | C10H20 | 004291-79-6 | 64 |
| 2 | cis-1-Ethyl-3-methylcyclohexane | 126 | C9H18 | 019489-10-2 | 59 |
| 3 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 59 |
| 4 | Sulfurous acid, cyclohexylmethyl... | 402 | C23H46O3S | 1000309-22-4 | 53 |
| 5 | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 100463-01-2 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

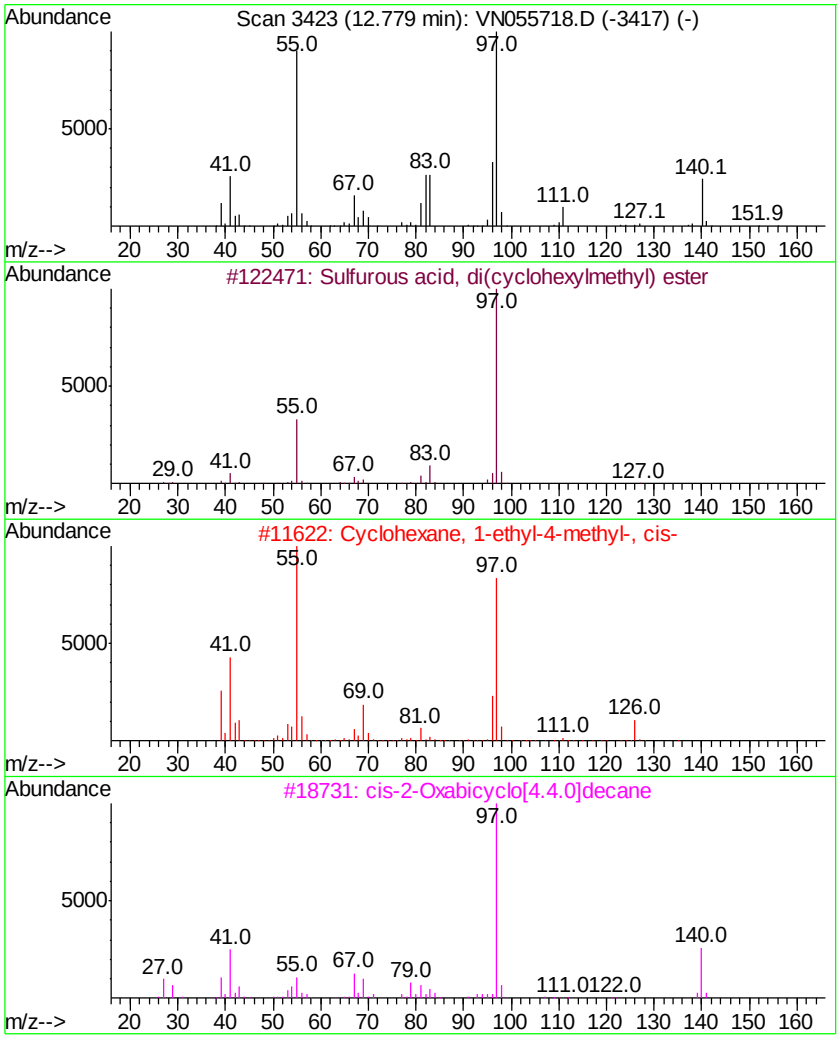
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

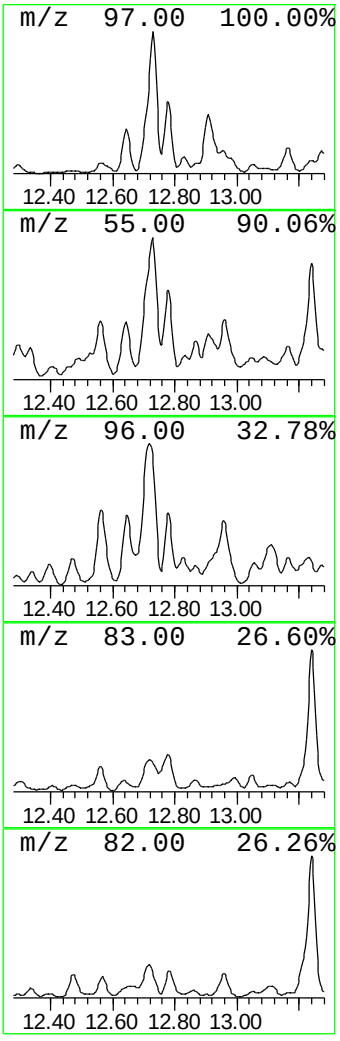
**********

Peak Number 6 Sulfurous acid, di(cyclohex... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.78 | 125.17 ug/l | 1416320 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfurous acid, di(cyclohexylmet... | 274 | C14H26O3S | 1000309-22-7 | 52 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 50 |
| 3 | cis-2-Oxabicyclo[4.4.0]decane | 140 | C9H16O | 060416-19-5 | 49 |
| 4 | Ethanone, 1-(1-methylcyclohexyl)- | 140 | C9H16O | 002890-62-2 | 47 |
| 5 | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-6 | 47 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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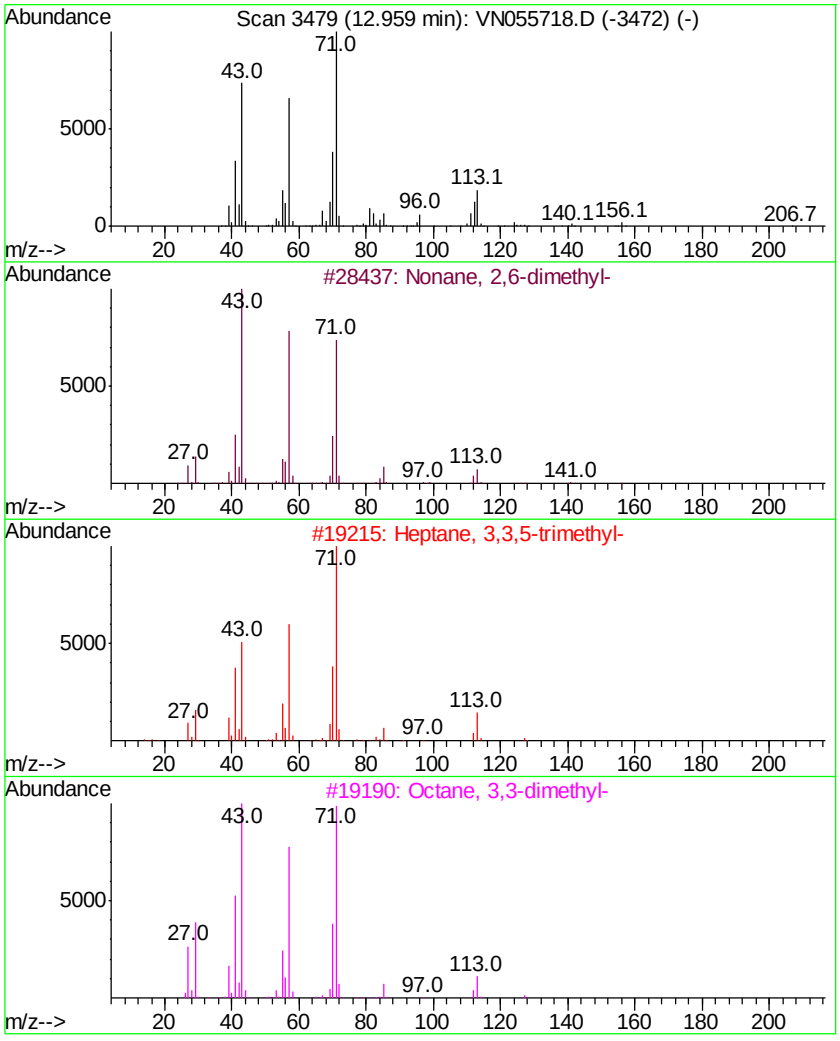
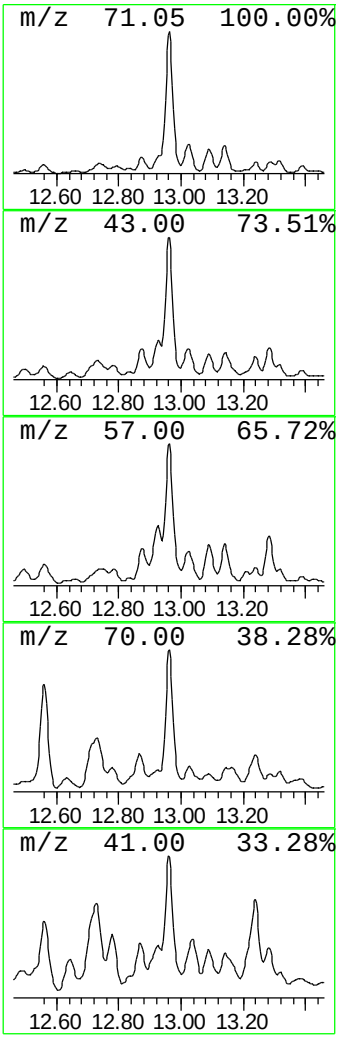
Peak Number 7 Nonane, 2,6-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.96 | 292.37 ug/l | 3308280 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 83 |
| 2 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 80 |
| 3 | Octane, 3,3-dimethyl- | 142 | C10H22 | 004110-44-5 | 64 |
| 4 | 2,2'-Bifuran, octahydro- | 142 | C8H14O2 | 001592-33-2 | 59 |
| 5 | Decane, 2,3,4-trimethyl- | 184 | C13H28 | 062238-15-7 | 59 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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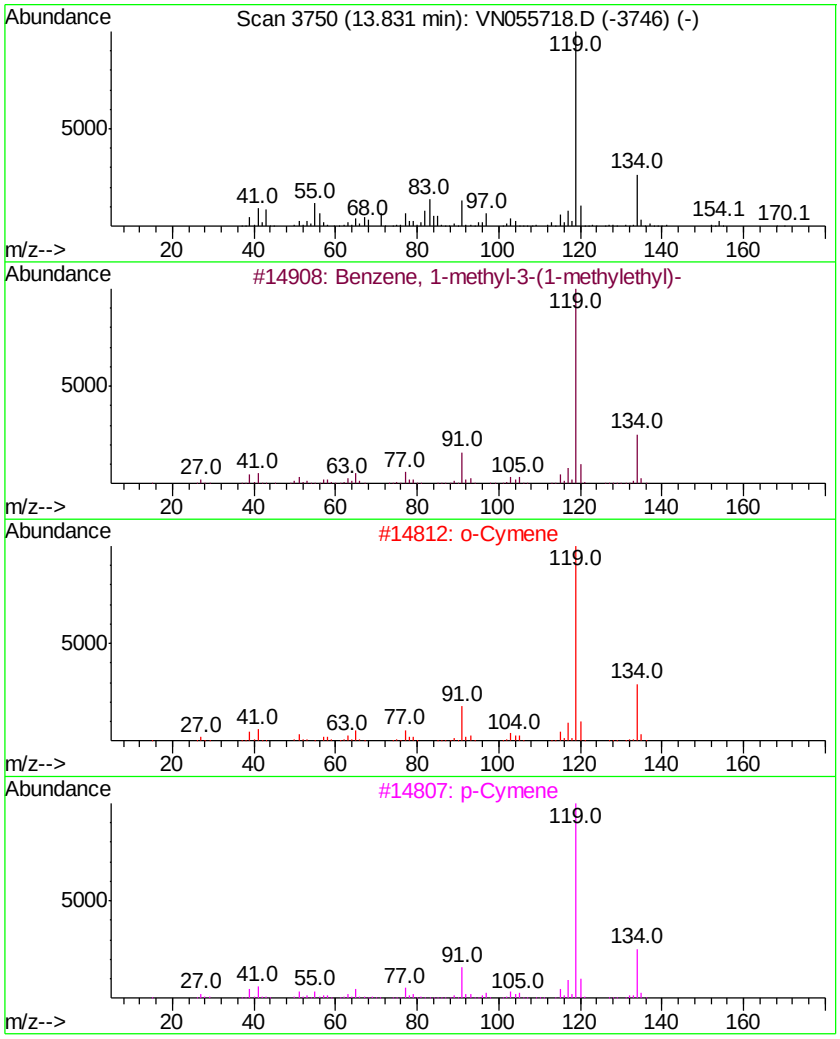
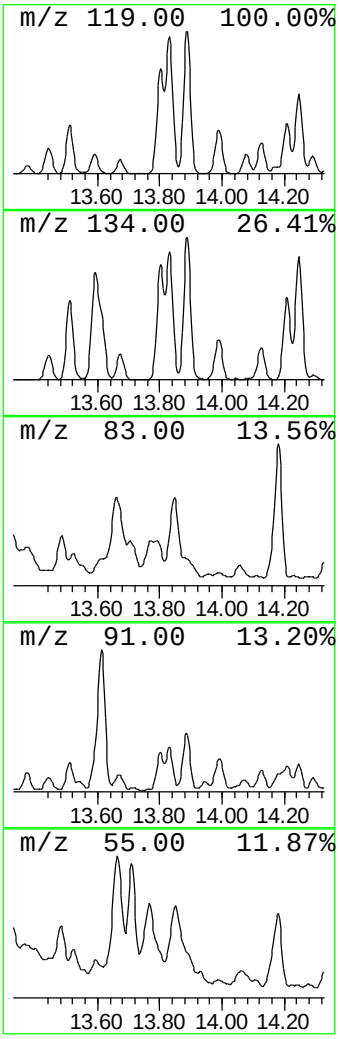
Peak Number 8 Benzene, 1-methyl-3-(1-meth... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 68.99 ug/l | 780667 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 93 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 87 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 81 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 81 |



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Data File : VN055718.D
Acq On : 21 May 2019 18:43
Operator : JC/SP
Sample : K2977-04 50X
Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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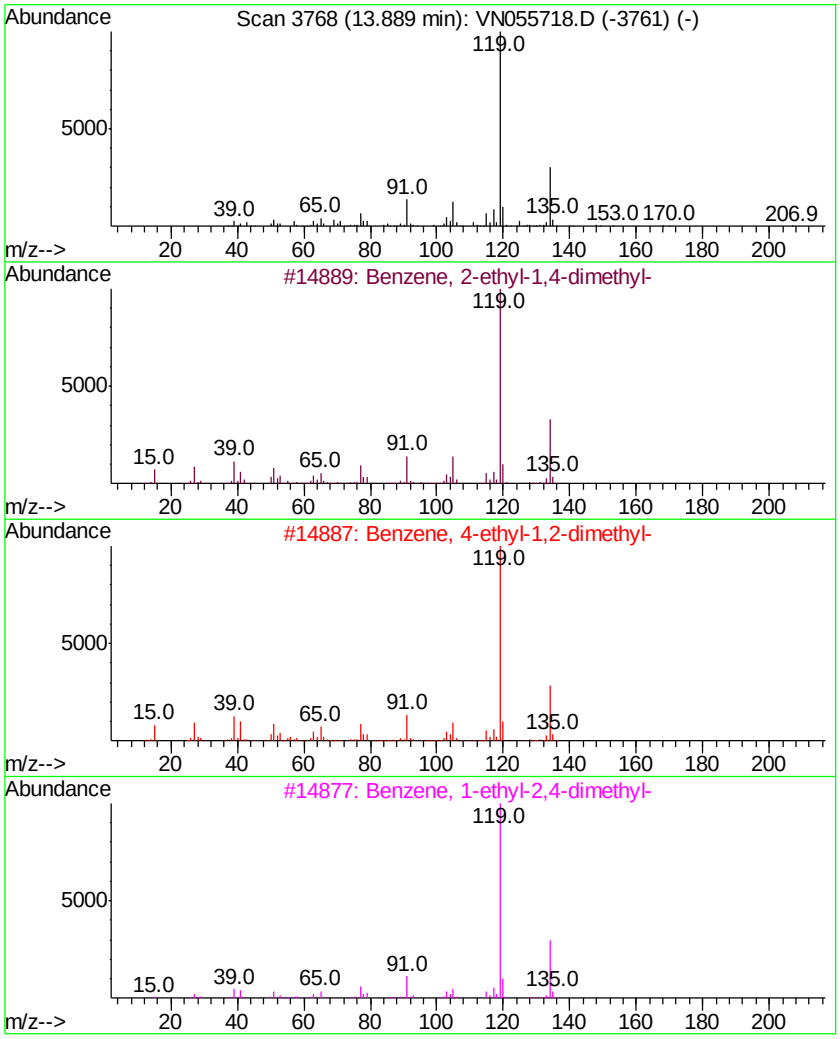
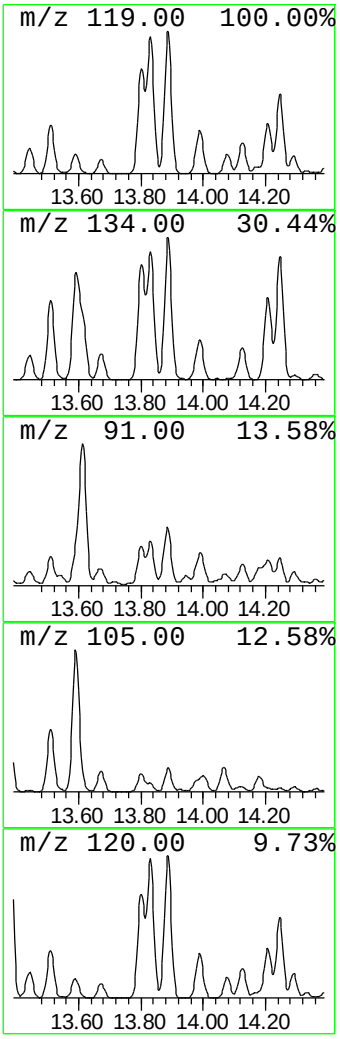
Peak Number 9 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.89 | 92.16 ug/l | 1042780 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 97 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 95 |
| 3 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 95 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |



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Data File : VN055718.D
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Misc : 5.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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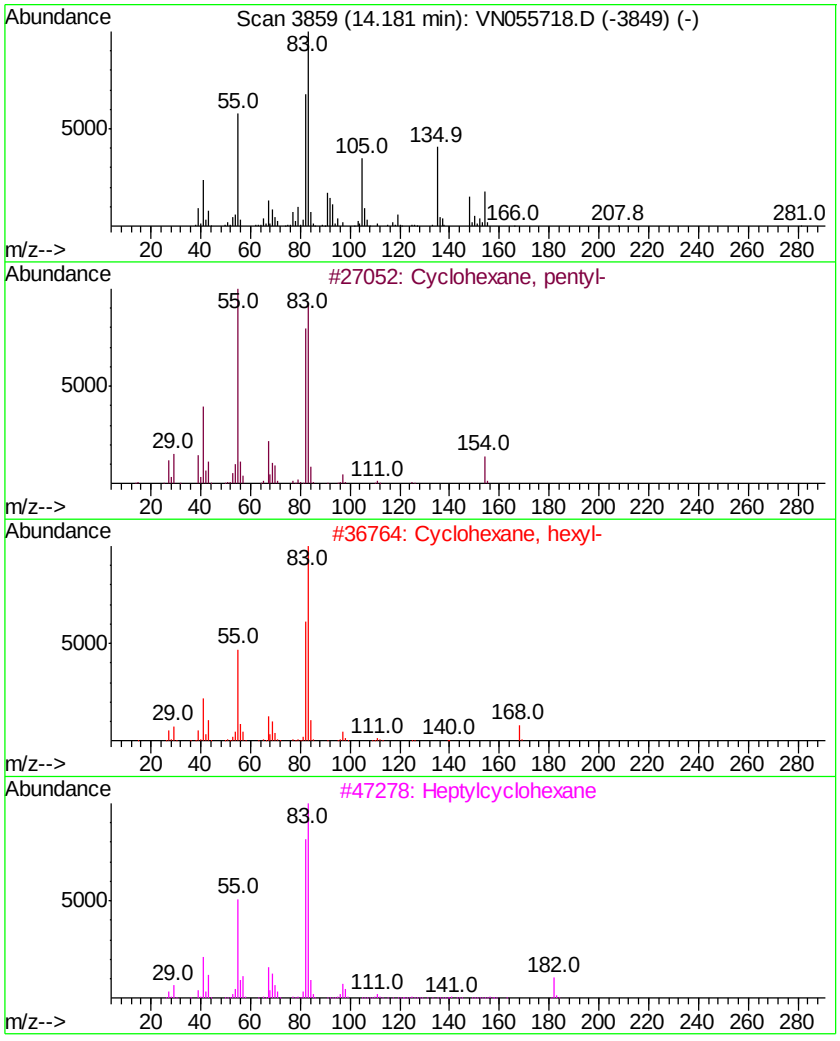
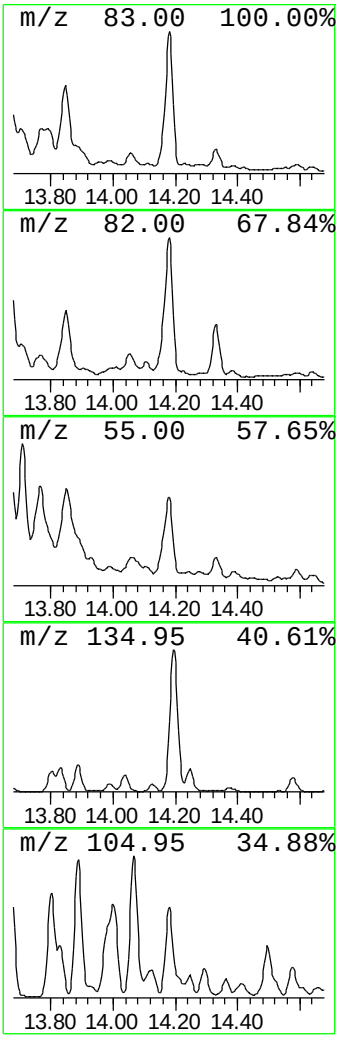
Peak Number 10 unknown14.18 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.18 | 75.92 ug/l | 859091 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 49 |
| 2 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 43 |
| 3 | Heptylcyclohexane | 182 | C13H26 | 005617-41-4 | 43 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 43 |
| 5 | n-Nonylcyclohexane | 210 | C15H30 | 002883-02-5 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055718.D
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Operator : JC/SP
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**Instrument :** MSVOA_N
**ClientSampleId :** EP1-W-2R(17-20)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Cyclohexane, 1-et... | 11.92 | 85.5 | ug/l | 2542680 | 3 | 11.41 | 1486810 | 50.0 |
| Cyclohexane, propyl- | 12.16 | 106.0 | ug/l | 3150680 | 3 | 11.41 | 1486810 | 50.0 |
| unknown12.49 | 12.49 | 96.4 | ug/l | 1090410 | 4 | 13.34 | 565772 | 50.0 |
| Cyclohexane, 1-me... | 12.64 | 95.5 | ug/l | 1081140 | 4 | 13.34 | 565772 | 50.0 |
| Cyclohexane, 1-me... | 12.73 | 472.3 | ug/l | 5344280 | 4 | 13.34 | 565772 | 50.0 |
| Sulfurous acid, d... | 12.78 | 125.2 | ug/l | 1416320 | 4 | 13.34 | 565772 | 50.0 |
| Nonane, 2,6-dimet... | 12.96 | 292.4 | ug/l | 3308280 | 4 | 13.34 | 565772 | 50.0 |
| Benzene, 1-methyl... | 13.83 | 69.0 | ug/l | 780667 | 4 | 13.34 | 565772 | 50.0 |
| Benzene, 2-ethyl-... | 13.89 | 92.2 | ug/l | 1042780 | 4 | 13.34 | 565772 | 50.0 |
| unknown14.18 | 14.18 | 75.9 | ug/l | 859091 | 4 | 13.34 | 565772 | 50.0 |