LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

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\82N061919W.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 | 1.992 | 61 | 68 | 88 | rVB | 112935 | 175452 | 2.48% | 0.592% |
| 2 | 3.818 | 615 | 636 | 659 | rBV | 249348 | 661935 | 9.34% | 2.235% |
| 3 | 4.793 | 896 | 939 | 991 | rBV | 1466267 | 5305715 | 74.87% | 17.916% |
| 4 | 5.047 | 1004 | 1018 | 1042 | rVB2 | 22054 | 79233 | 1.12% | 0.268% |
| 5 | 6.831 | 1546 | 1573 | 1637 | rBV | 2292925 | 7087023 | 100.00% | 23.931% |
| 6 | 7.214 | 1672 | 1692 | 1734 | rVB | 822981 | 2291535 | 32.33% | 7.738% |
| 7 | 7.590 | 1791 | 1809 | 1820 | rBV | 230773 | 566321 | 7.99% | 1.912% |
| 8 | 7.664 | 1820 | 1832 | 1853 | rVB | 398177 | 949321 | 13.40% | 3.206% |
| 9 | 8.027 | 1927 | 1945 | 1966 | rBV2 | 293218 | 744194 | 10.50% | 2.513% |
| 10 | 8.137 | 1968 | 1979 | 1994 | rVB3 | 54113 | 127935 | 1.81% | 0.432% |
| 11 | 8.583 | 2103 | 2118 | 2145 | rBV | 628936 | 1337262 | 18.87% | 4.516% |
| 12 | 9.985 | 2538 | 2554 | 2564 | rBV3 | 62237 | 127863 | 1.80% | 0.432% |
| 13 | 10.091 | 2573 | 2587 | 2600 | rBV | 1024410 | 1910494 | 26.96% | 6.451% |
| 14 | 10.156 | 2601 | 2607 | 2613 | rVV | 59656 | 106535 | 1.50% | 0.360% |
| 15 | 10.194 | 2613 | 2619 | 2634 | rVB | 64669 | 118591 | 1.67% | 0.400% |
| 16 | 10.718 | 2766 | 2782 | 2810 | rVV | 205805 | 403732 | 5.70% | 1.363% |
| 17 | 10.850 | 2811 | 2823 | 2846 | rVB | 26968 | 87655 | 1.24% | 0.296% |
| 18 | 11.406 | 2982 | 2996 | 3016 | rVV | 983785 | 1810422 | 25.55% | 6.113% |
| 19 | 11.506 | 3017 | 3027 | 3045 | rVV2 | 65888 | 161264 | 2.28% | 0.545% |
| 20 | 11.615 | 3046 | 3061 | 3071 | rVV | 125693 | 252086 | 3.56% | 0.851% |
| 21 | 11.947 | 3153 | 3164 | 3178 | rVB | 118579 | 209572 | 2.96% | 0.708% |
| 22 | 12.400 | 3293 | 3305 | 3321 | rVB | 770955 | 1318454 | 18.60% | 4.452% |
| 23 | 12.754 | 3399 | 3415 | 3427 | rBV4 | 27415 | 72387 | 1.02% | 0.244% |
| 24 | 13.037 | 3493 | 3503 | 3515 | rVB | 41195 | 71896 | 1.01% | 0.243% |
| 25 | 13.165 | 3528 | 3543 | 3553 | rBV3 | 93773 | 162333 | 2.29% | 0.548% |
| 26 | 13.342 | 3585 | 3598 | 3616 | rBV | 779067 | 1427060 | 20.14% | 4.819% |
| 27 | 13.815 | 3733 | 3745 | 3755 | rBV7 | 64935 | 136727 | 1.93% | 0.462% |
| 28 | 13.876 | 3756 | 3764 | 3778 | rVB2 | 143511 | 238662 | 3.37% | 0.806% |
| 29 | 14.223 | 3857 | 3872 | 3888 | rBV | 510200 | 925339 | 13.06% | 3.125% |
| 30 | 14.808 | 4041 | 4054 | 4058 | rBV5 | 83809 | 158684 | 2.24% | 0.536% |
| 31 | 14.847 | 4058 | 4066 | 4075 | rVV | 232739 | 417790 | 5.90% | 1.411% |
| 32 | 14.898 | 4075 | 4082 | 4096 | rVB6 | 87718 | 171038 | 2.41% | 0.578% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

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\82N061919W.M
Title : SW846 8260

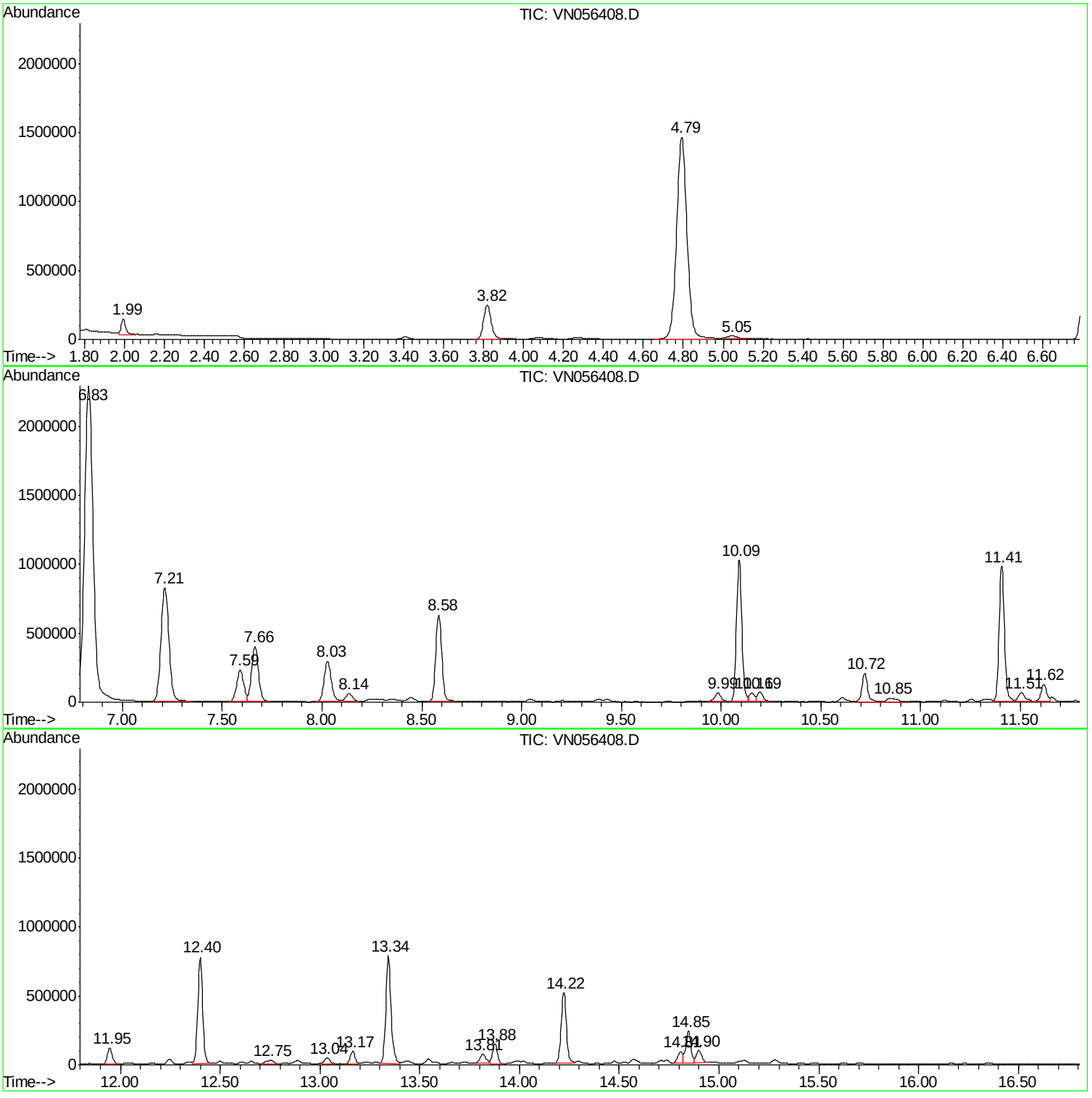
Sum of corrected areas: 29614510

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

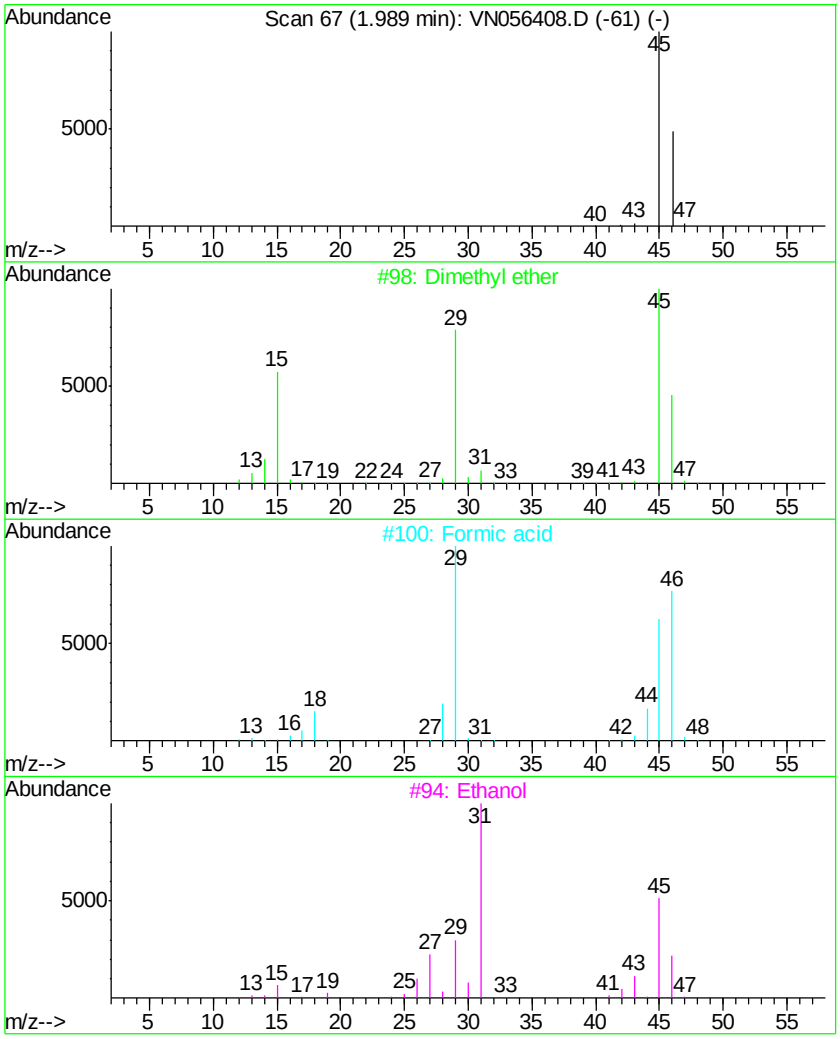
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

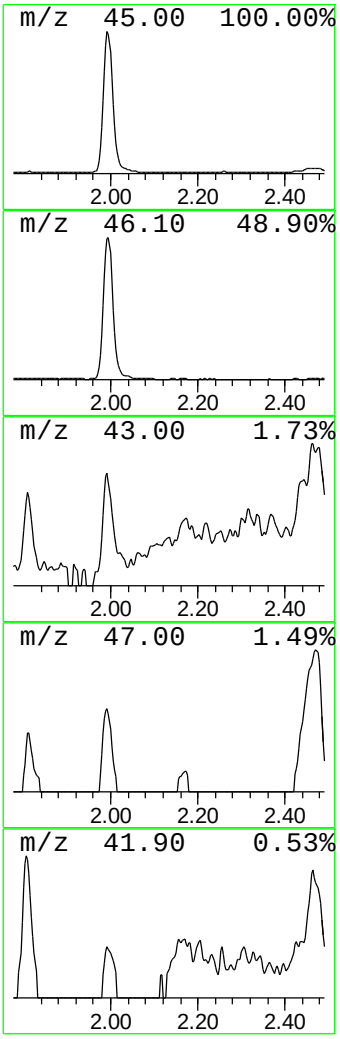
**********

Peak Number 1 Dimethyl ether Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.99 | 9.24 ug/l | 175452 | Pentafluorobenzene | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethyl ether | 46 | C2H6O | 000115-10-6 | 74 |
| 2 | Formic acid | 46 | CH2O2 | 000064-18-6 | 7 |
| 3 | Ethanol | 46 | C2H6O | 000064-17-5 | 7 |
| 4 | Oxalic acid | 90 | C2H2O4 | 000144-62-7 | 4 |
| 5 | Methane, nitroso- | 45 | CH3NO | 000865-40-7 | 3 |



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

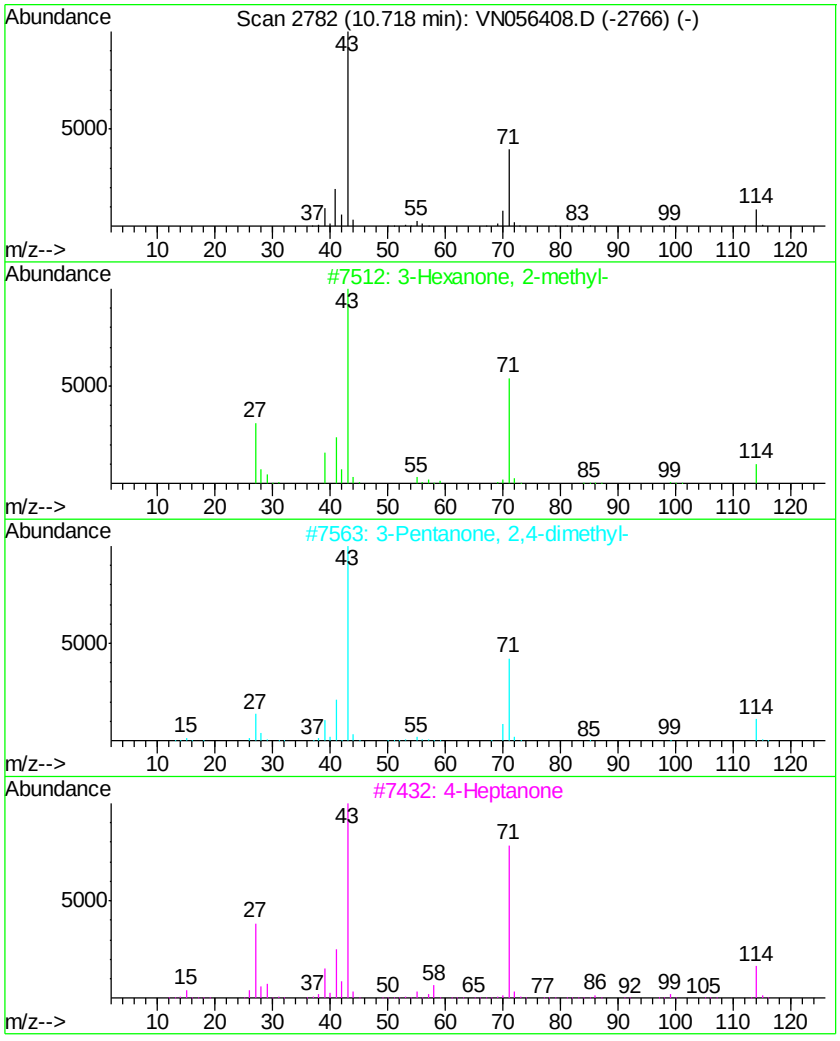
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

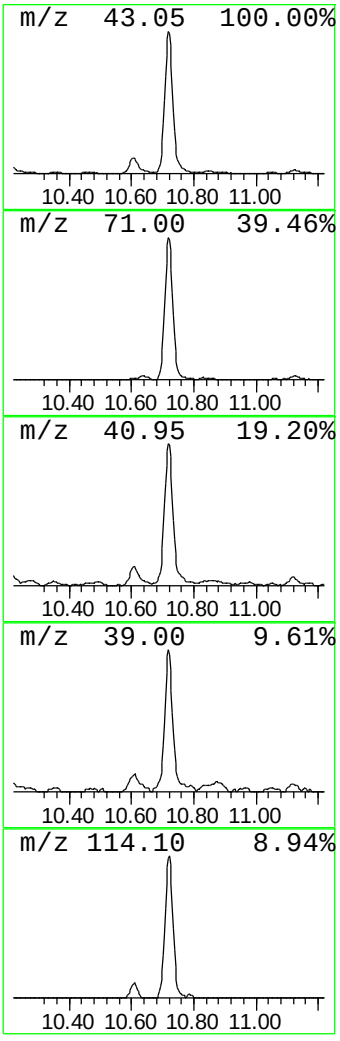
**********

Peak Number 2 3-Hexanone, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.72 | 11.15 ug/l | 403732 | Chlorobenzene-d5 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Hexanone, 2-methyl- | 114 | C7H14O | 007379-12-6 | 80 |
| 2 | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O | 000565-80-0 | 64 |
| 3 | 4-Heptanone | 114 | C7H14O | 000123-19-3 | 59 |
| 4 | Pyrrolidine | 71 | C4H9N | 000123-75-1 | 59 |
| 5 | n-Caproic acid vinyl ester | 142 | C8H14O2 | 003050-69-9 | 39 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

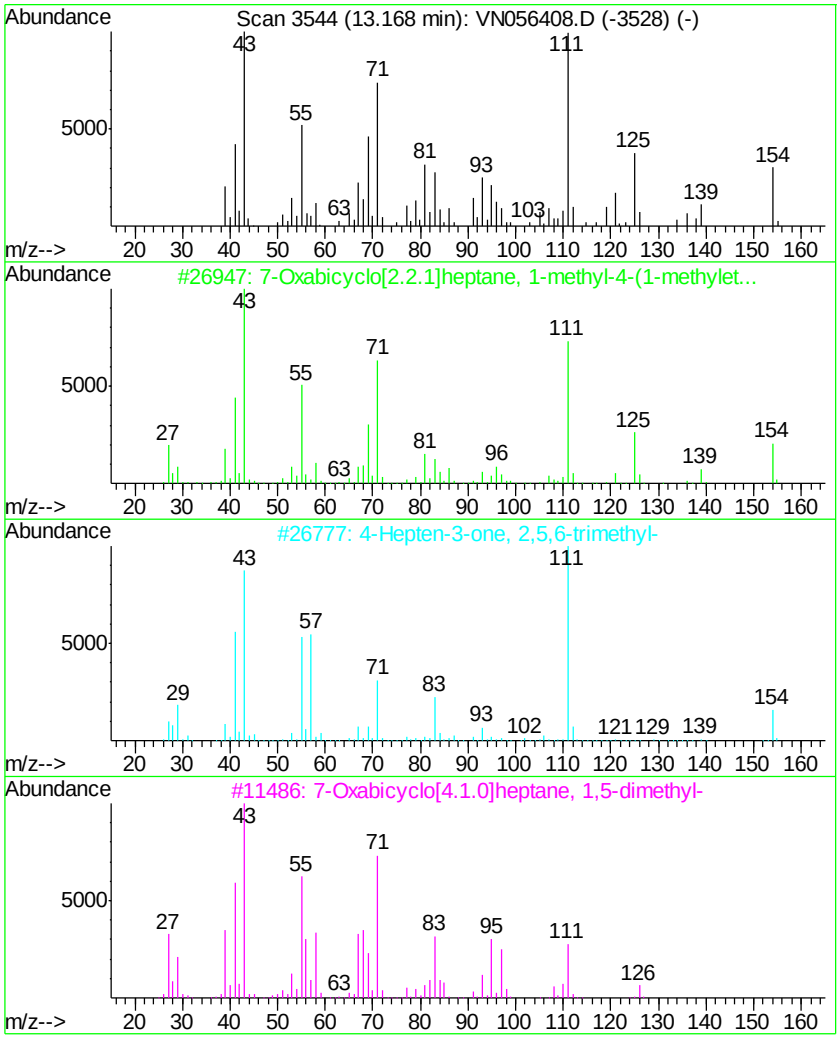
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

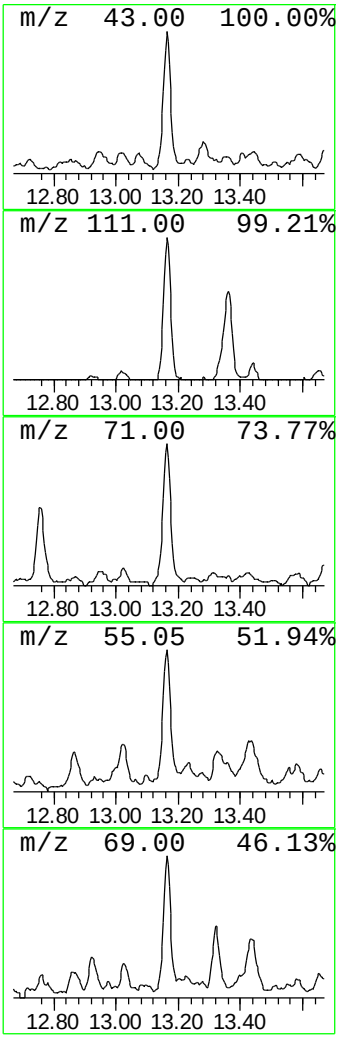
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.17 | 5.69 ug/l | 162333 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 91 |
| 2 | 4-Hepten-3-one, 2,5,6-trimethyl- | 154 | C10H18O | 016466-21-0 | 27 |
| 3 | 7-Oxabicyclo[4.1.0]heptane, 1,5-... | 126 | C8H14O | 162239-52-3 | 25 |
| 4 | 2-Aminopyrimidine-1-oxide | 111 | C4H5N3O | 035034-15-2 | 25 |
| 5 | 2(1H)-Pyridinone, 5-hydroxy- | 111 | C5H5NO2 | 005154-01-8 | 14 |



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

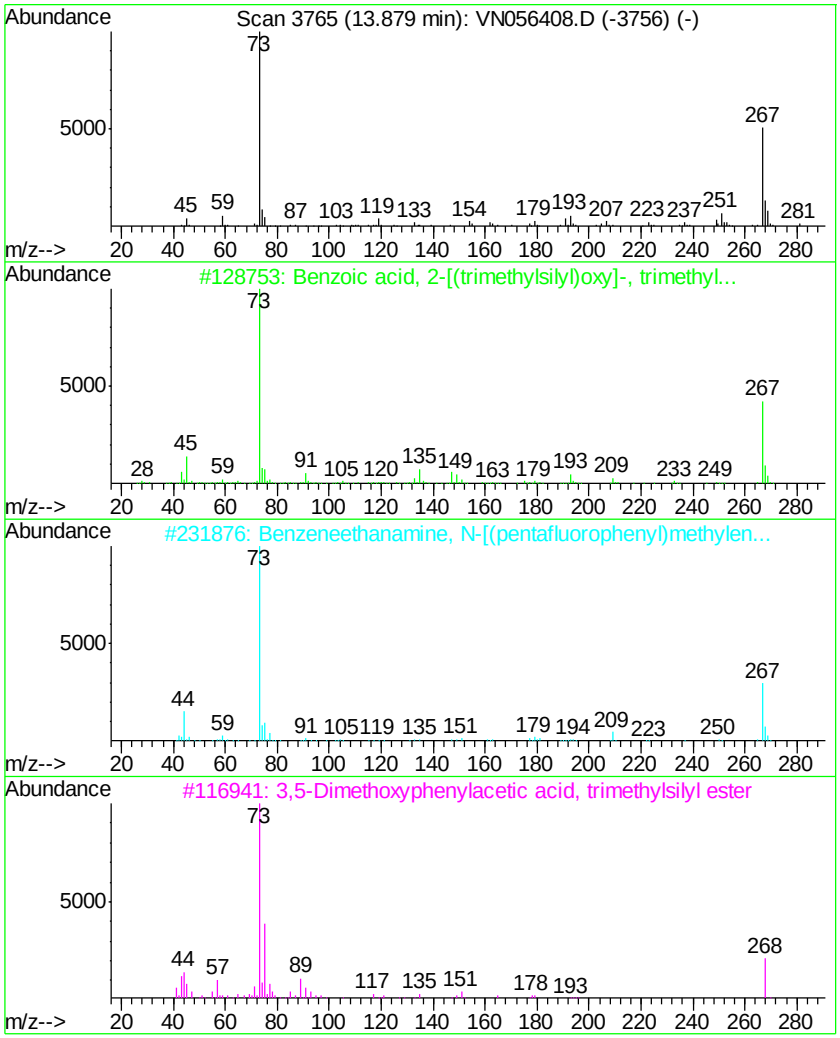
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

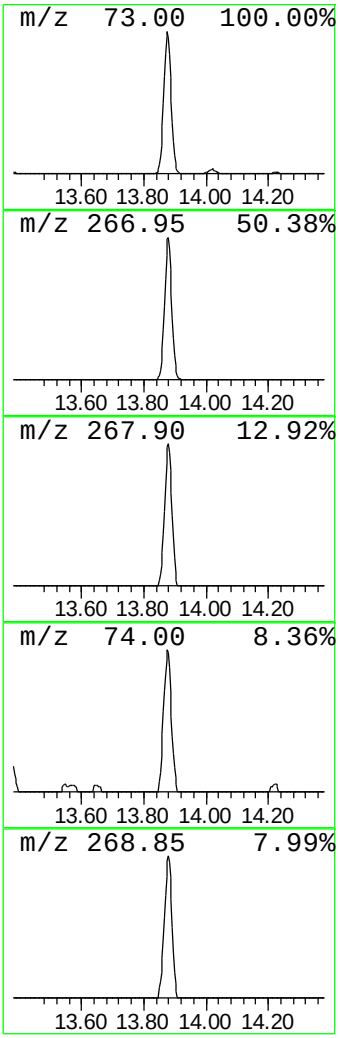
**********

Peak Number 4 Benzoic acid, 2-[(trimethyl... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.88 | 8.36 ug/l | 238662 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 2-[(trimethylsilyl... | 282 | C13H22O3Si2 | 003789-85-3 | 64 |
| 2 | Benzeneethanamine, N-[(pentafluo... | 475 | C21H26F5NO2Si2 | 055429-85-1 | 38 |
| 3 | 3,5-Dimethoxyphenylacetic acid, ... | 268 | C13H20O4Si | 1000071-82-4 | 22 |
| 4 | 1-Boraindane, 3-methyl-1-[1-(tri... | 266 | C17H23BSi | 190316-36-0 | 14 |
| 5 | 4-Methylcatechol, bis(trimethyls... | 268 | C13H24O2Si2 | 1000332-79-9 | 12 |



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

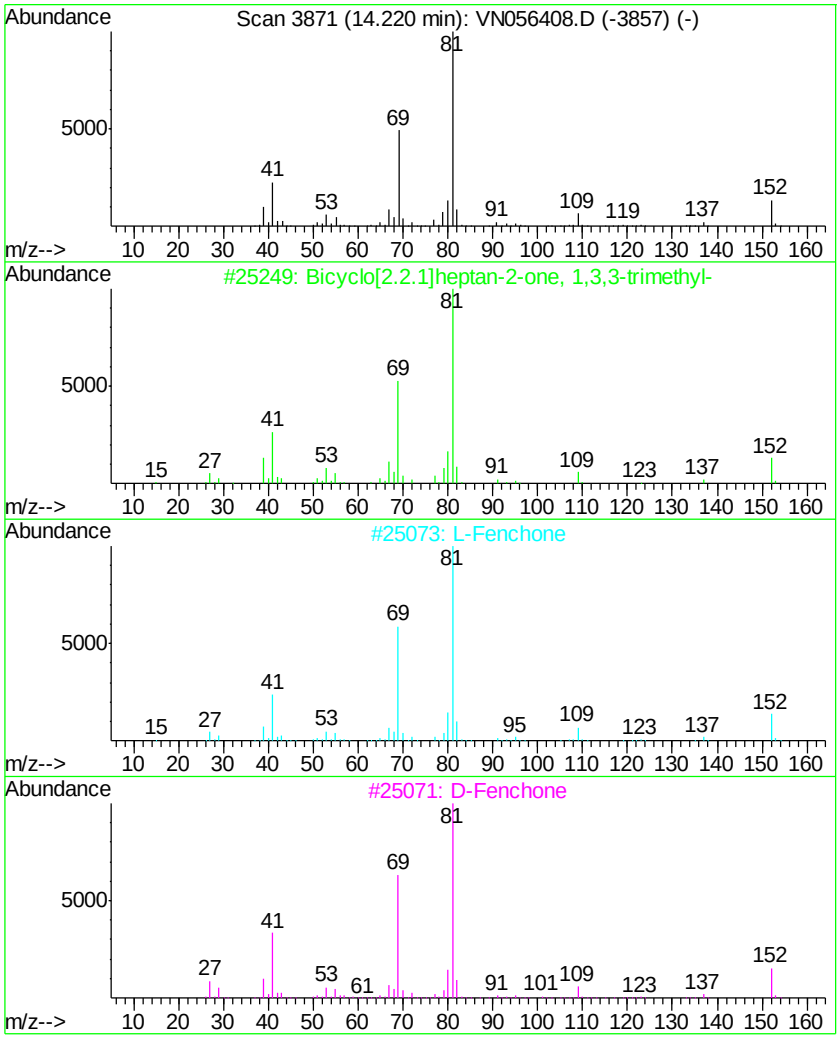
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

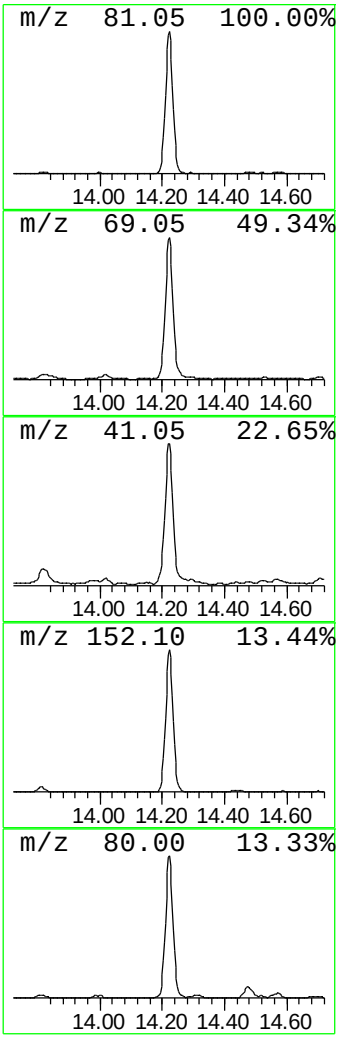
**********

Peak Number 5 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.22 | 32.42 ug/l | 925339 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,3,... | 152 | C10H16O | 001195-79-5 | 95 |
| 2 | L-Fenchone | 152 | C10H16O | 007787-20-4 | 94 |
| 3 | D-Fenchone | 152 | C10H16O | 004695-62-9 | 94 |
| 4 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 000529-00-0 | 45 |
| 5 | Ethanone, 1-(2-methyl-2-cyclopen... | 124 | C8H12O | 001767-84-6 | 45 |



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

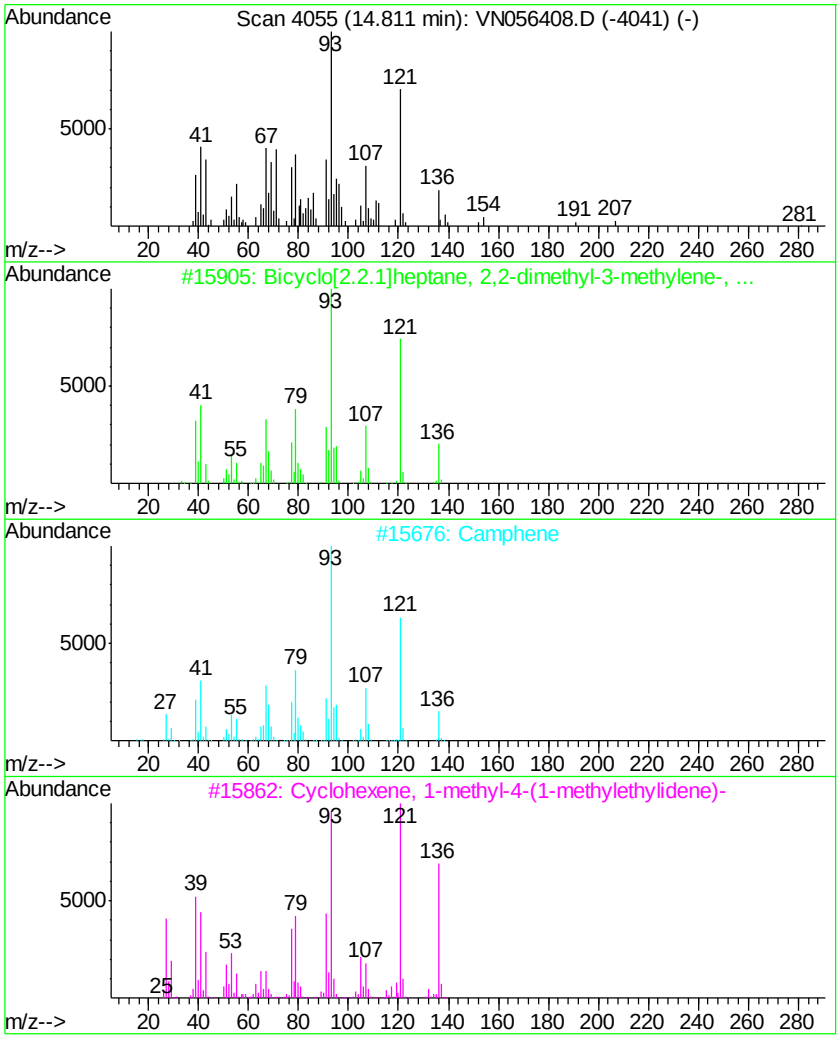
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

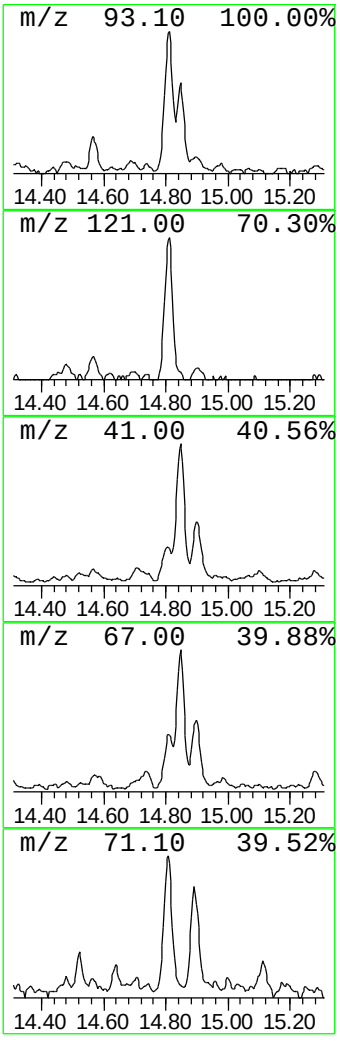
**********

Peak Number 6 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.81 | 5.56 ug/l | 158684 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16 | 005794-04-7 | 96 |
| 2 | Camphene | 136 | C10H16 | 000079-92-5 | 96 |
| 3 | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16 | 000586-62-9 | 50 |
| 4 | 1,3,6-Heptatriene, 2,5,5-trimethyl- | 136 | C10H16 | 029548-02-5 | 49 |
| 5 | p-Menth-2-en-7-ol, cis- | 154 | C10H18O | 019898-86-3 | 49 |



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

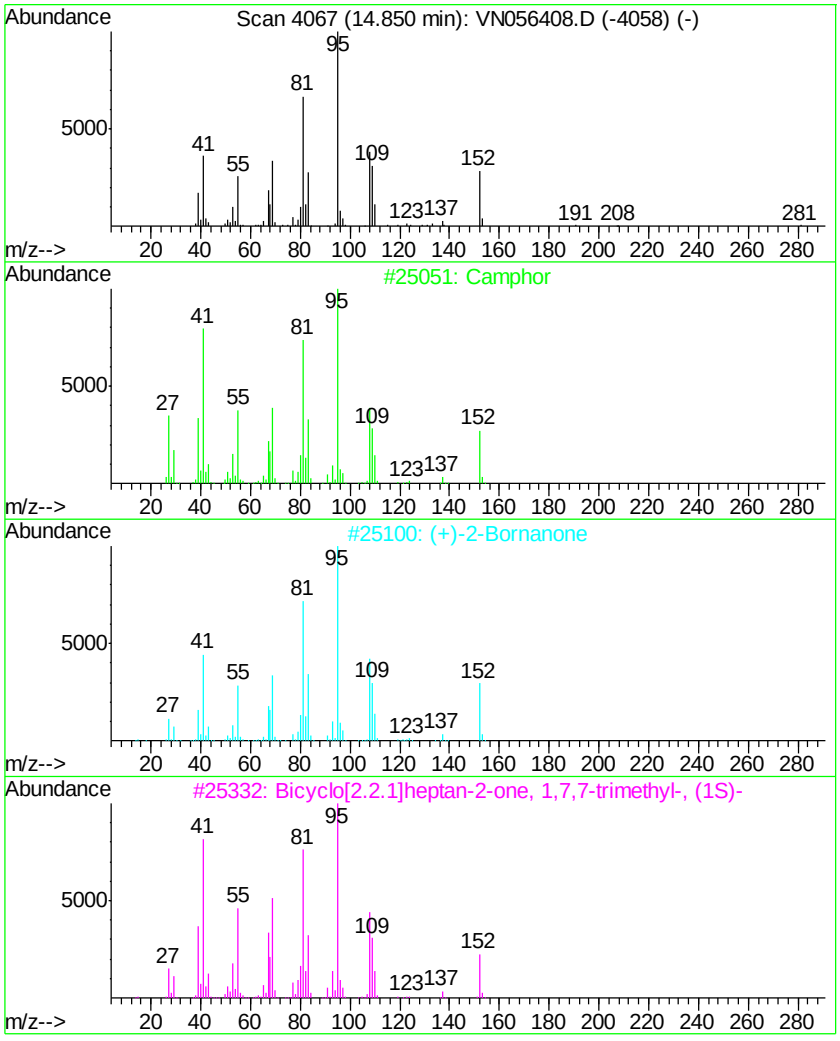
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

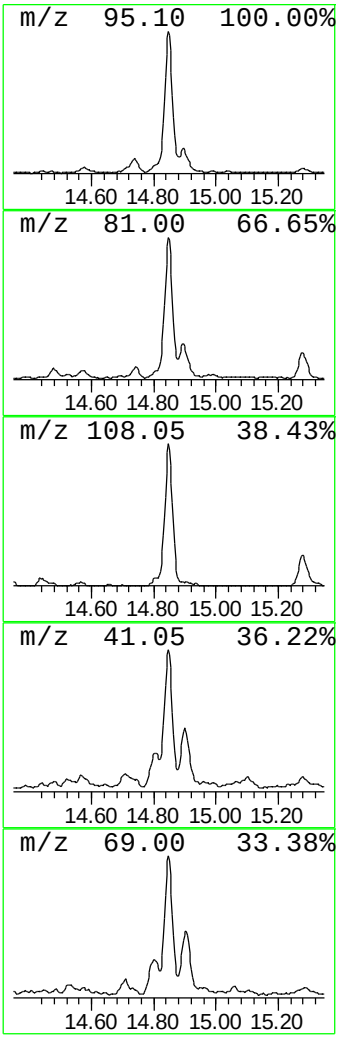
**********

Peak Number 7 Camphor Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 14.64 ug/l | 417790 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Camphor | 152 | C10H16O | 000076-22-2 | 97 |
| 2 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 97 |
| 3 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 94 |
| 4 | Spirobicyclo[2.2.1]heptane-2,2'-... | 236 | C14H20O3 | 1000155-15-2 | 59 |
| 5 | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 46 |



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
Quant Title : SW846 8260

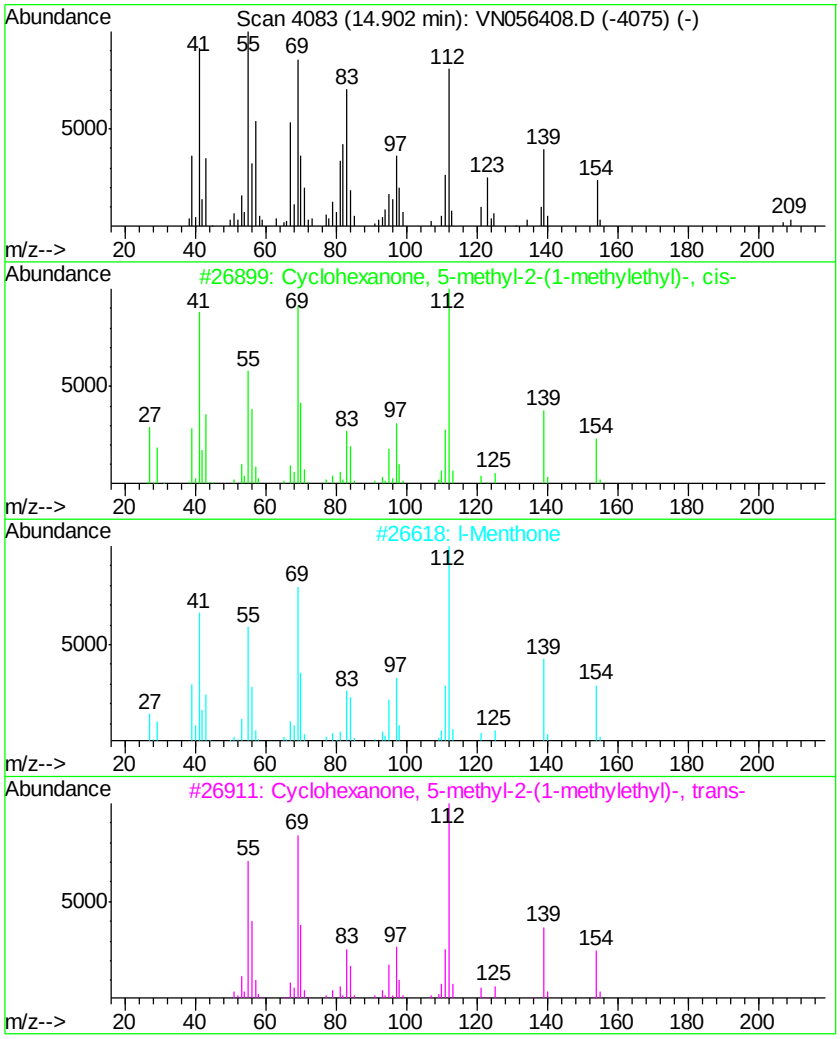
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

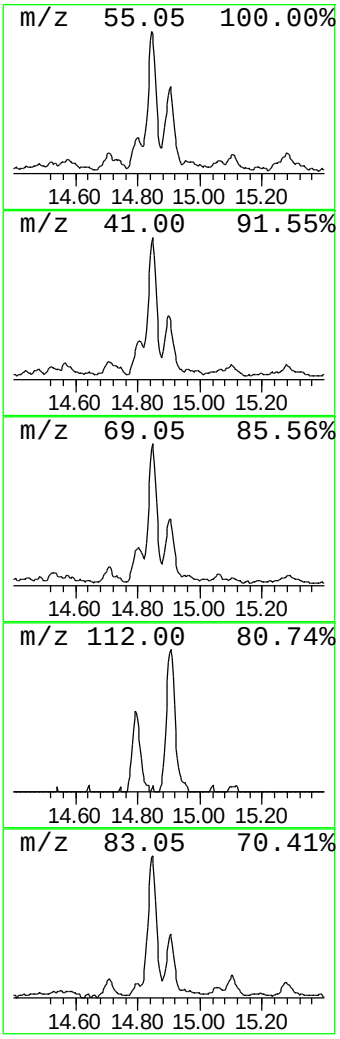
**********

Peak Number 8 Cyclohexanone, 5-methyl-2-(... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.90 | 5.99 ug/l | 171038 | 1,4-Dichlorobenzene-d4 | 13.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 5-methyl-2-(1-met... | 154 | C10H18O | 000491-07-6 | 94 |
| 2 | l-Menthone | 154 | C10H18O | 014073-97-3 | 94 |
| 3 | Cyclohexanone, 5-methyl-2-(1-met... | 154 | C10H18O | 000089-80-5 | 93 |
| 4 | Cyclohexanone, 5-methyl-2-(1-met... | 154 | C10H18O | 001196-31-2 | 76 |
| 5 | Cyclohexanone, 5-methyl-2-(1-met... | 154 | C10H18O | 010458-14-7 | 55 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062019\
Data File : VN056408.D
Acq On : 20 Jun 2019 17:23
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** MSVOA_N
**ClientSampleId :** 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.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 |
| Dimethyl ether | 1.99 | 9.2 | ug/l | 175452 | 1 | 7.66 | 949321 | 50.0 |
| 3-Hexanone, 2-met... | 10.72 | 11.2 | ug/l | 403732 | 3 | 11.41 | 1810420 | 50.0 |
| 7-Oxabicyclo[2.2.... | 13.17 | 5.7 | ug/l | 162333 | 4 | 13.34 | 1427060 | 50.0 |
| Benzoic acid, 2-[... | 13.88 | 8.4 | ug/l | 238662 | 4 | 13.34 | 1427060 | 50.0 |
| Bicyclo[2.2.1]hep... | 14.22 | 32.4 | ug/l | 925339 | 4 | 13.34 | 1427060 | 50.0 |
| Bicyclo[2.2.1]hep... | 14.81 | 5.6 | ug/l | 158684 | 4 | 13.34 | 1427060 | 50.0 |
| Camphor | 14.85 | 14.6 | ug/l | 417790 | 4 | 13.34 | 1427060 | 50.0 |
| Cyclohexanone, 5-... | 14.90 | 6.0 | ug/l | 171038 | 4 | 13.34 | 1427060 | 50.0 |