LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

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_D\METHOD\82D080919S.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 | 1.474 | 3 | 5 | 24 | rVB | 1643406 | 3959291 | 100.00% | 31.699% |
| 2 | 1.808 | 36 | 39 | 44 | rVB2 | 41783 | 74120 | 1.87% | 0.593% |
| 3 | 3.216 | 177 | 182 | 188 | rVV2 | 21395 | 49693 | 1.26% | 0.398% |
| 4 | 3.797 | 235 | 241 | 247 | rBV2 | 34653 | 100316 | 2.53% | 0.803% |
| 5 | 6.918 | 550 | 558 | 565 | rBV | 457098 | 1304999 | 32.96% | 10.448% |
| 6 | 7.036 | 565 | 570 | 578 | rVB | 336727 | 925233 | 23.37% | 7.408% |
| 7 | 7.449 | 604 | 612 | 622 | rBV | 365868 | 1011688 | 25.55% | 8.100% |
| 8 | 8.207 | 682 | 689 | 701 | rBV | 495636 | 1300534 | 32.85% | 10.412% |
| 9 | 10.078 | 873 | 879 | 886 | rBV | 236425 | 531526 | 13.42% | 4.255% |
| 10 | 10.403 | 905 | 912 | 920 | rBV | 474815 | 1091952 | 27.58% | 8.742% |
| 11 | 12.362 | 1107 | 1111 | 1116 | rBV | 455232 | 726573 | 18.35% | 5.817% |
| 12 | 13.553 | 1228 | 1232 | 1237 | rVB | 423253 | 560771 | 14.16% | 4.490% |
| 13 | 14.517 | 1326 | 1330 | 1335 | rVB | 252060 | 348981 | 8.81% | 2.794% |
| 14 | 15.108 | 1387 | 1390 | 1393 | rBV2 | 26627 | 42832 | 1.08% | 0.343% |
| 15 | 15.344 | 1411 | 1414 | 1417 | rBV | 72267 | 87331 | 2.21% | 0.699% |
| 16 | 16.644 | 1541 | 1546 | 1549 | rBV6 | 20716 | 62607 | 1.58% | 0.501% |
| 17 | 16.988 | 1577 | 1581 | 1583 | rBV5 | 18970 | 46269 | 1.17% | 0.370% |
| 18 | 17.038 | 1583 | 1586 | 1591 | rVB5 | 33368 | 64334 | 1.62% | 0.515% |
| 19 | 17.244 | 1604 | 1607 | 1611 | rVV3 | 48716 | 95551 | 2.41% | 0.765% |
| 20 | 17.303 | 1611 | 1613 | 1618 | rVV6 | 17511 | 46663 | 1.18% | 0.374% |
| 21 | 17.372 | 1618 | 1620 | 1627 | rVB7 | 18895 | 59156 | 1.49% | 0.474% |

Sum of corrected areas: 12490420

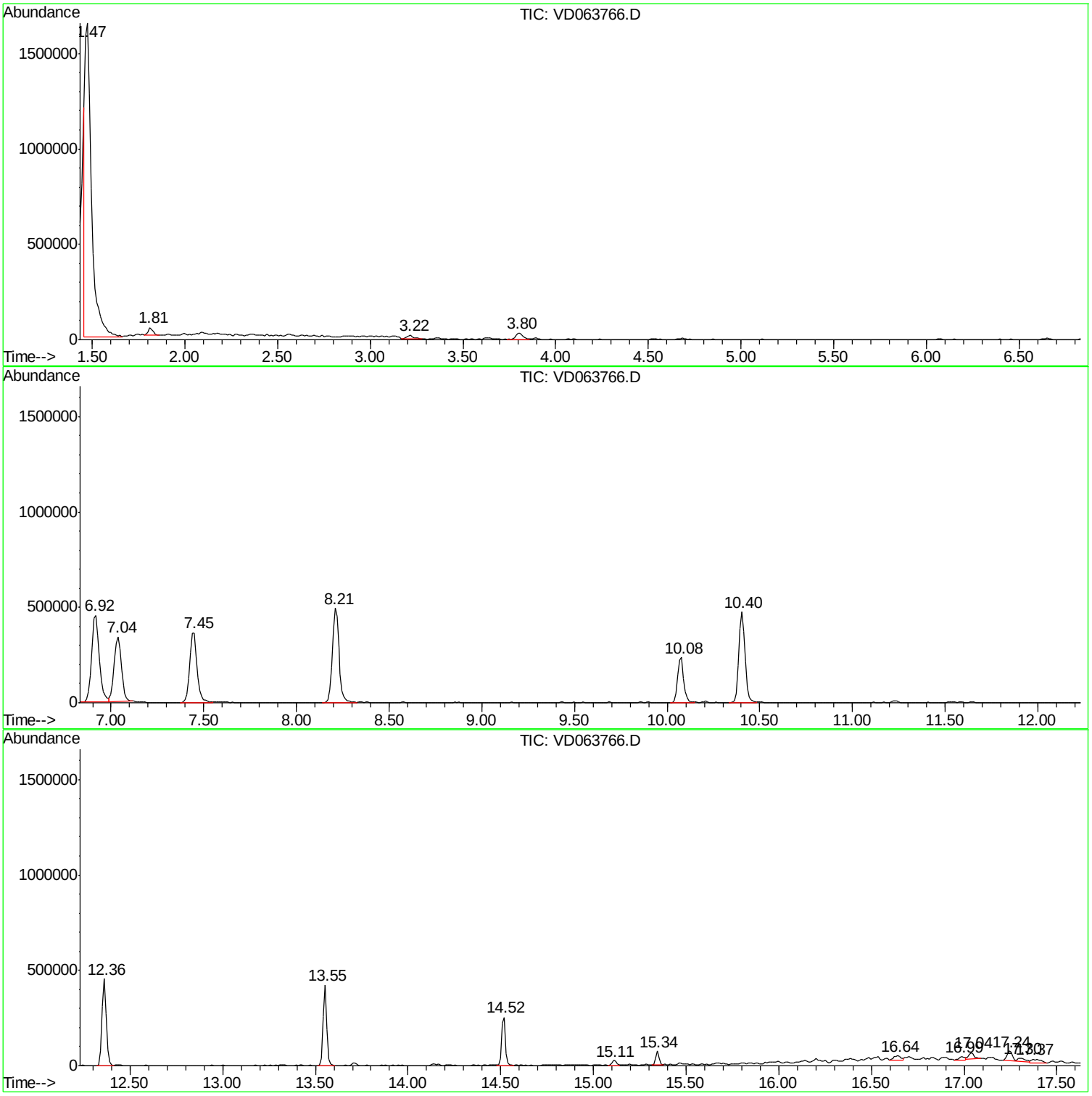
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

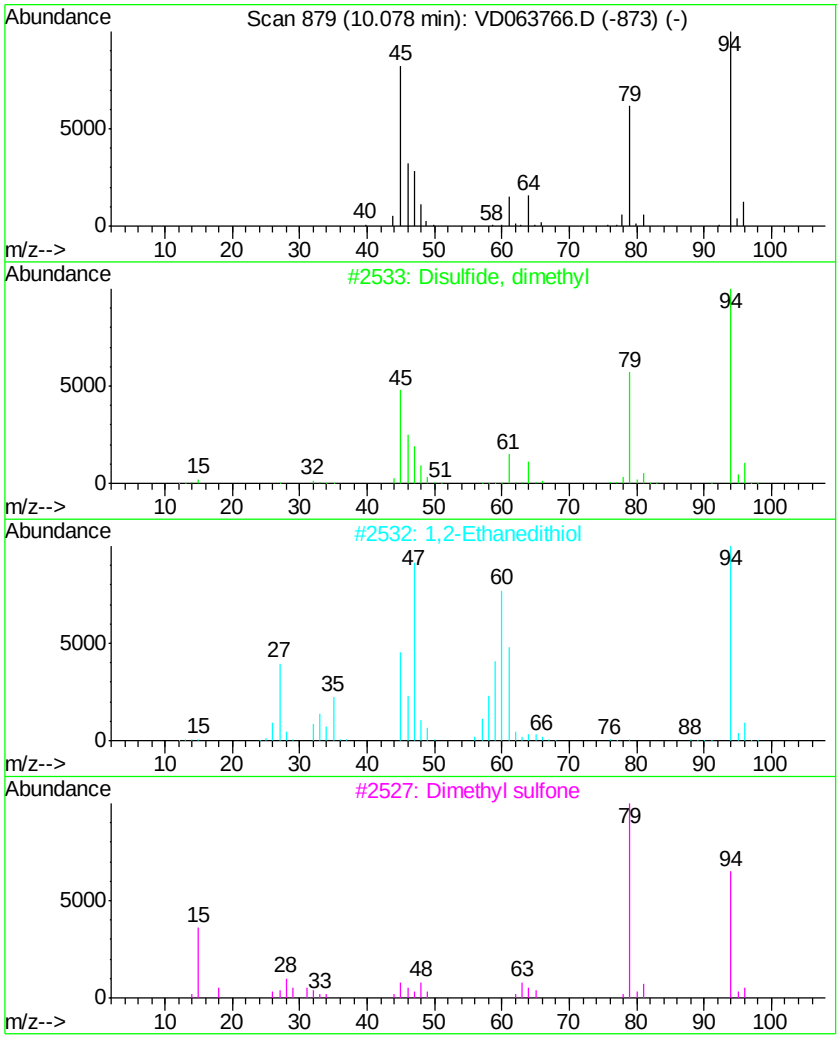
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

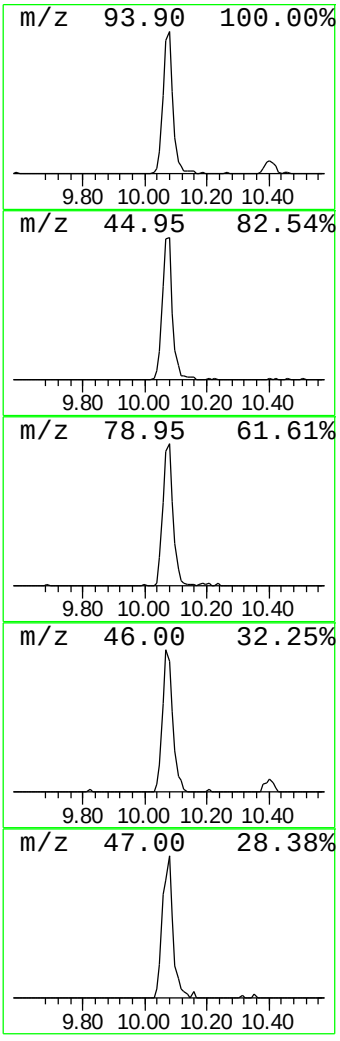
**********

Peak Number 2 Disulfide, dimethyl Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.08 | 20.43 ug/l | 531526 | 1,4-Difluorobenzene | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Disulfide, dimethyl | 94 | C2H6S2 | 000624-92-0 | 94 |
| 2 | 1,2-Ethanedithiol | 94 | C2H6S2 | 000540-63-6 | 38 |
| 3 | Dimethyl sulfone | 94 | C2H6O2S | 000067-71-0 | 9 |
| 4 | Bromomethyl methyl ether | 124 | C2H5BrO | 013057-17-5 | 9 |
| 5 | Fampridine | 94 | C5H6N2 | 000504-24-5 | 7 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

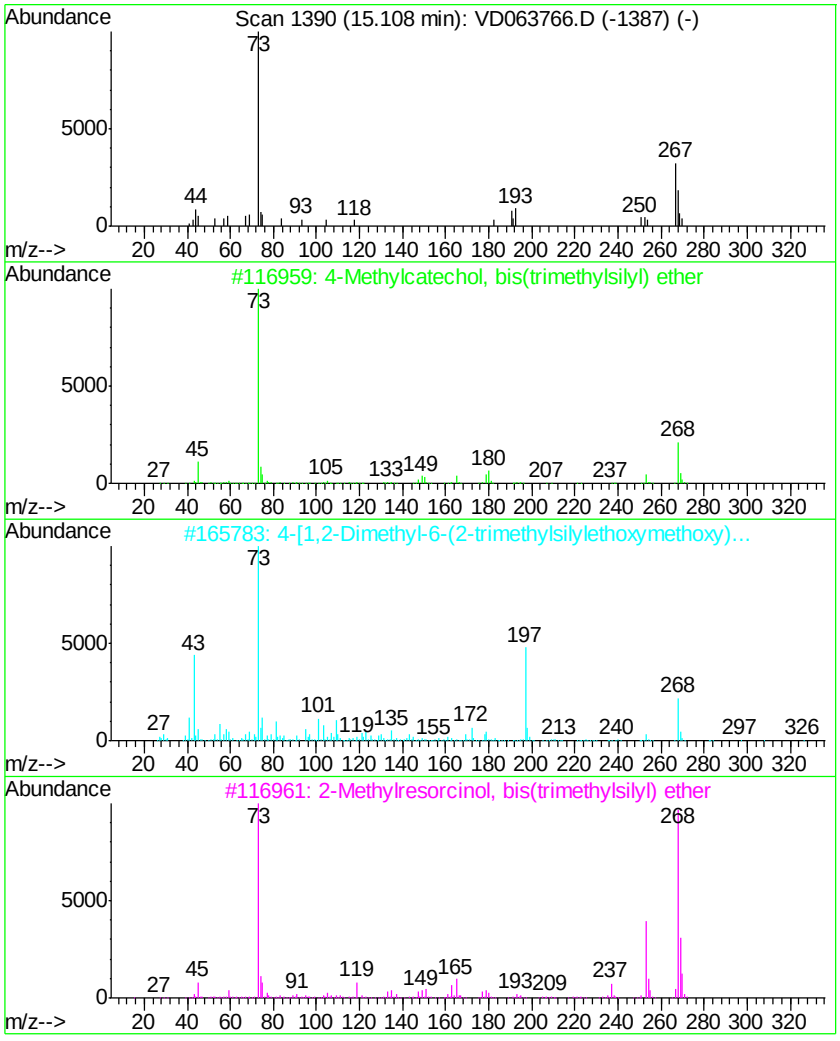
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

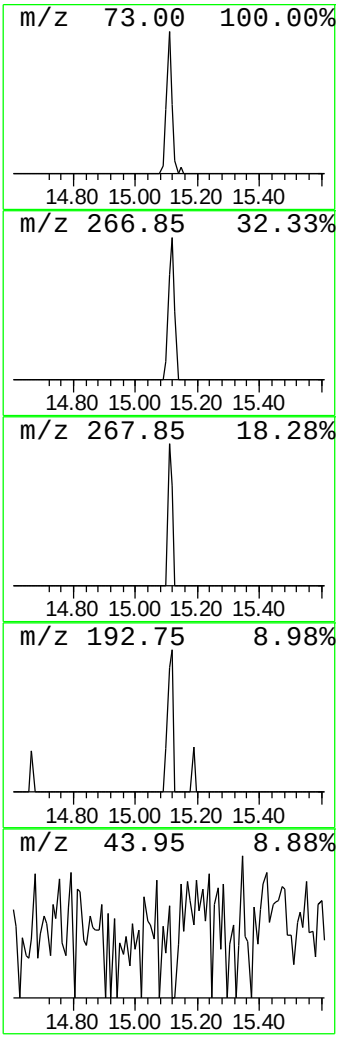
**********

Peak Number 3 unknown15.11 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.11 | 6.14 ug/l | 42832 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Methylcatechol, bis(trimethyls... | 268 | C13H24O2Si2 | 1000332-79-9 | 32 |
| 2 | 4-[1,2-Dimethyl-6-(2-trimethylsi... | 326 | C18H34O3Si | 119018-20-1 | 17 |
| 3 | 2-Methylresorcinol, bis(trimethy... | 268 | C13H24O2Si2 | 1000352-78-6 | 9 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 7 |
| 5 | 1-Propene-1-thiol | 74 | C3H6S | 000925-89-3 | 7 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

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

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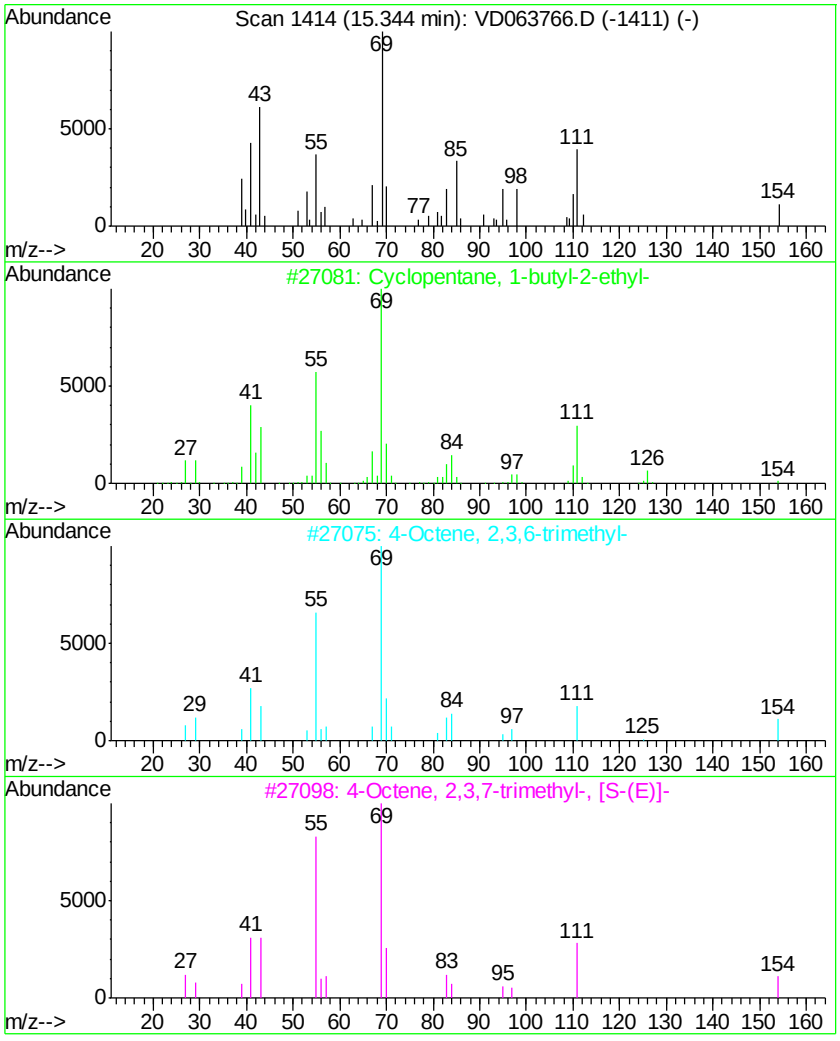
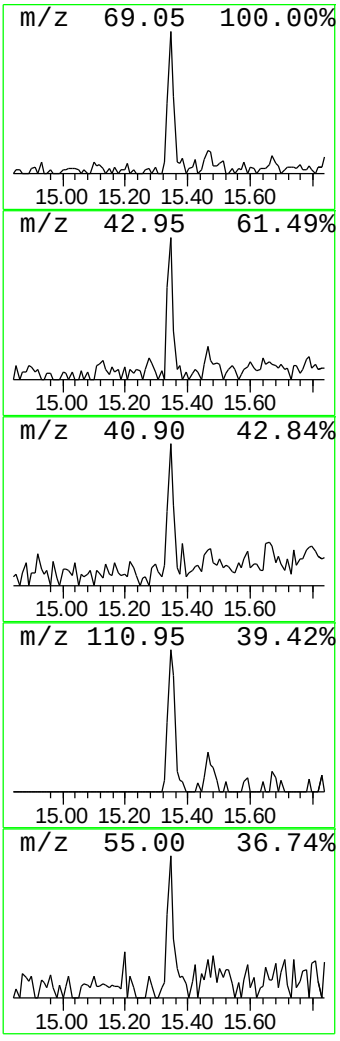
Peak Number 4 Cyclopentane, 1-butyl-2-ethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.34 | 12.51 ug/l | 87331 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1-butyl-2-ethyl- | 154 | C11H22 | 072993-32-9 | 50 |
| 2 | 4-Octene, 2,3,6-trimethyl- | 154 | C11H22 | 063830-65-9 | 49 |
| 3 | 4-Octene, 2,3,7-trimethyl-, [S-(... | 154 | C11H22 | 052763-13-0 | 43 |
| 4 | 4-Methyl-2-hexene,c&t | 98 | C7H14 | 003404-55-5 | 38 |
| 5 | Cyclohexane, 1-ethyl-1,4-dimethy... | 140 | C10H20 | 062238-32-8 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

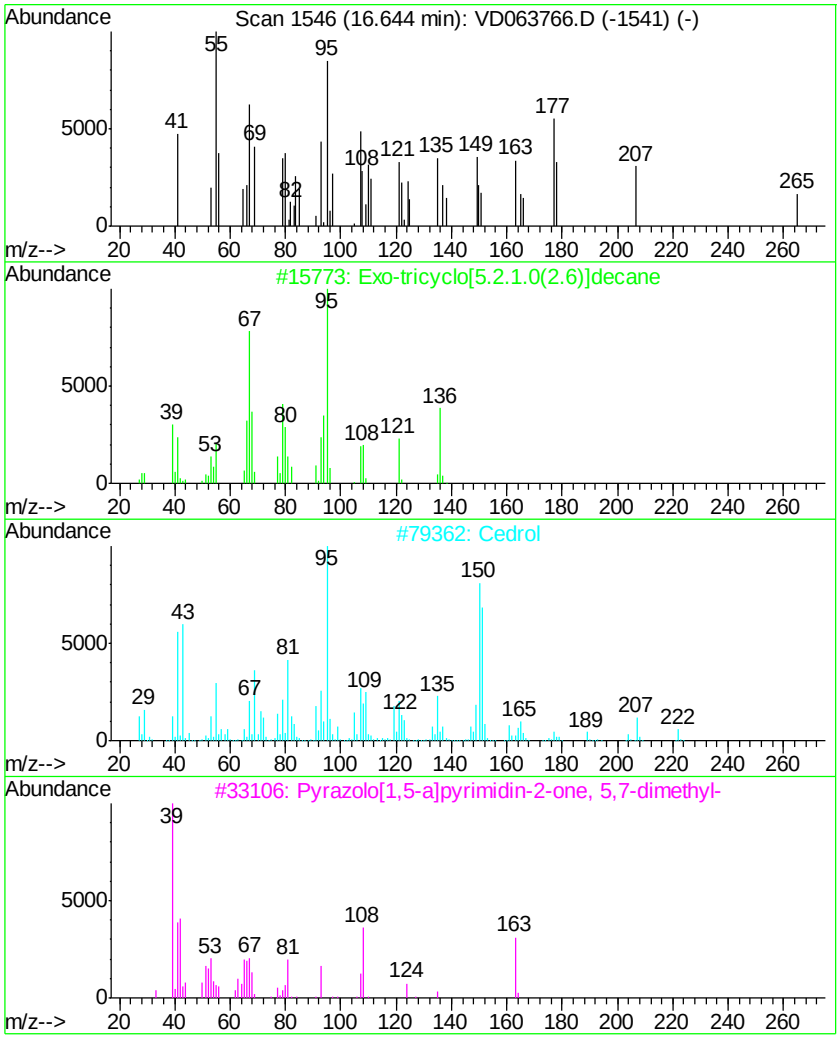
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

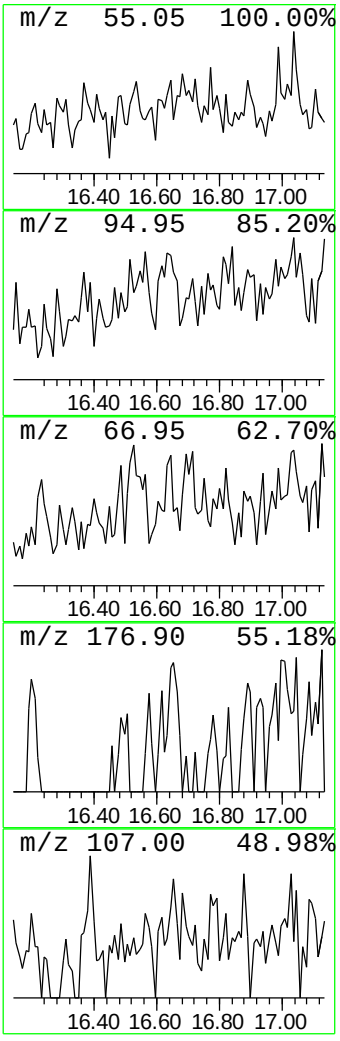
**********

Peak Number 5 unknown16.64 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.64 | 8.97 ug/l | 62607 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Exo-tricyclo[5.2.1.0(2.6)]decane | 136 | C10H16 | 1000215-28-7 | 35 |
| 2 | Cedrol | 222 | C15H26O | 000077-53-2 | 22 |
| 3 | Pyrazolo[1,5-a]pyrimidin-2-one, ... | 163 | C8H9N3O | 1000302-65-6 | 14 |
| 4 | [3-(2-Bromo-ethyl)-bicyclo[2.2.1... | 232 | C10H17BrO | 1000188-73-1 | 14 |
| 5 | 5,5-Dimethyl-1,3-hexadiene | 110 | C8H14 | 001515-79-3 | 11 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

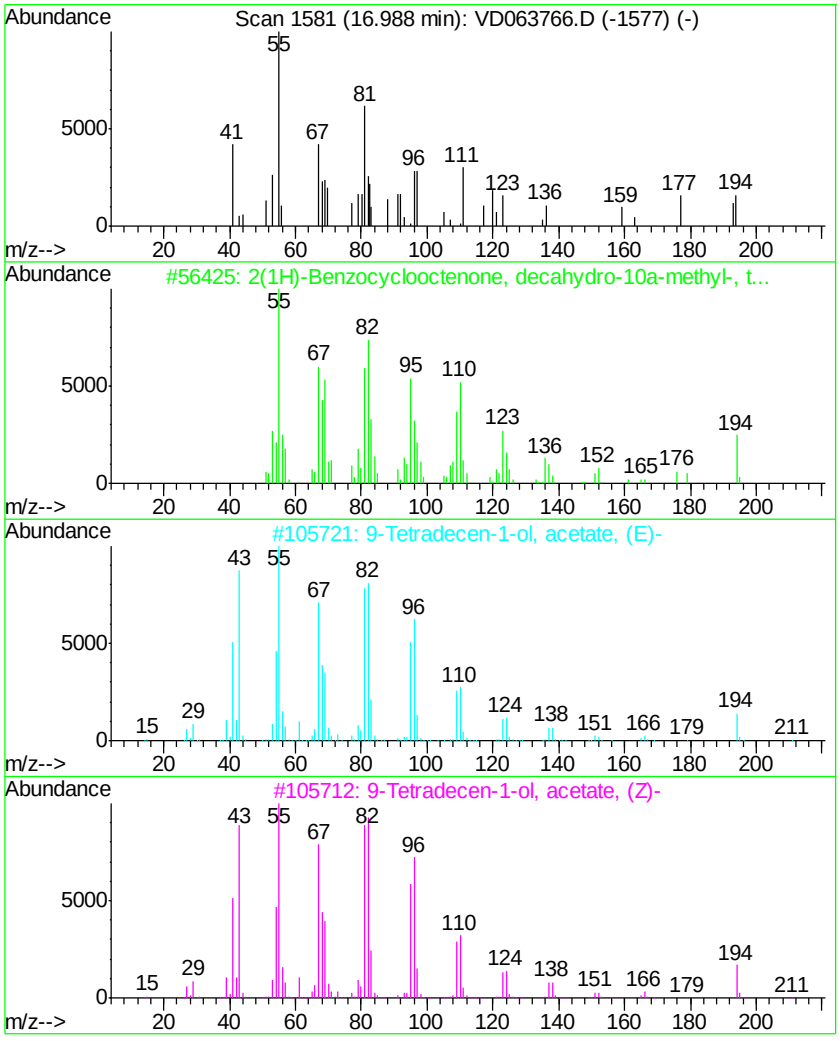
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

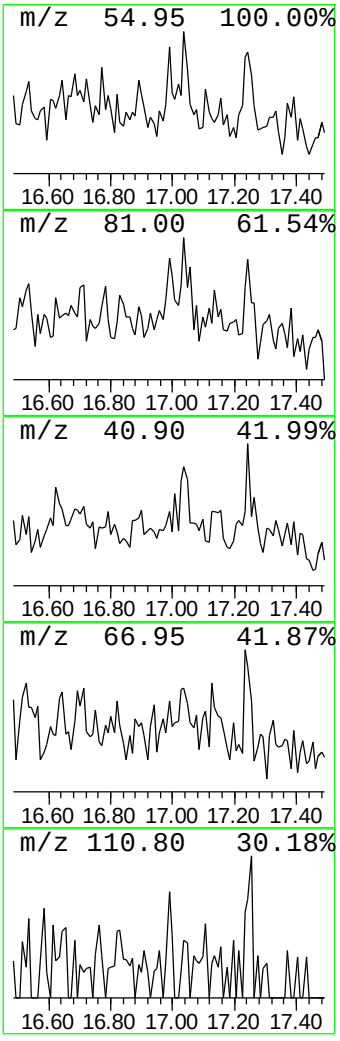
**********

Peak Number 6 2(1H)-Benzocyclooctenone, d... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.99 | 6.63 ug/l | 46269 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(1H)-Benzocyclooctenone, decahy... | 194 | C13H22O | 055103-68-9 | 52 |
| 2 | 9-Tetradecen-1-ol, acetate, (E)- | 254 | C16H30O2 | 023192-82-7 | 47 |
| 3 | 9-Tetradecen-1-ol, acetate, (Z)- | 254 | C16H30O2 | 016725-53-4 | 47 |
| 4 | 13-Oxabicyclo[10.1.0]tridecane | 182 | C12H22O | 000286-99-7 | 43 |
| 5 | 1-Hexadecyne | 222 | C16H30 | 000629-74-3 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

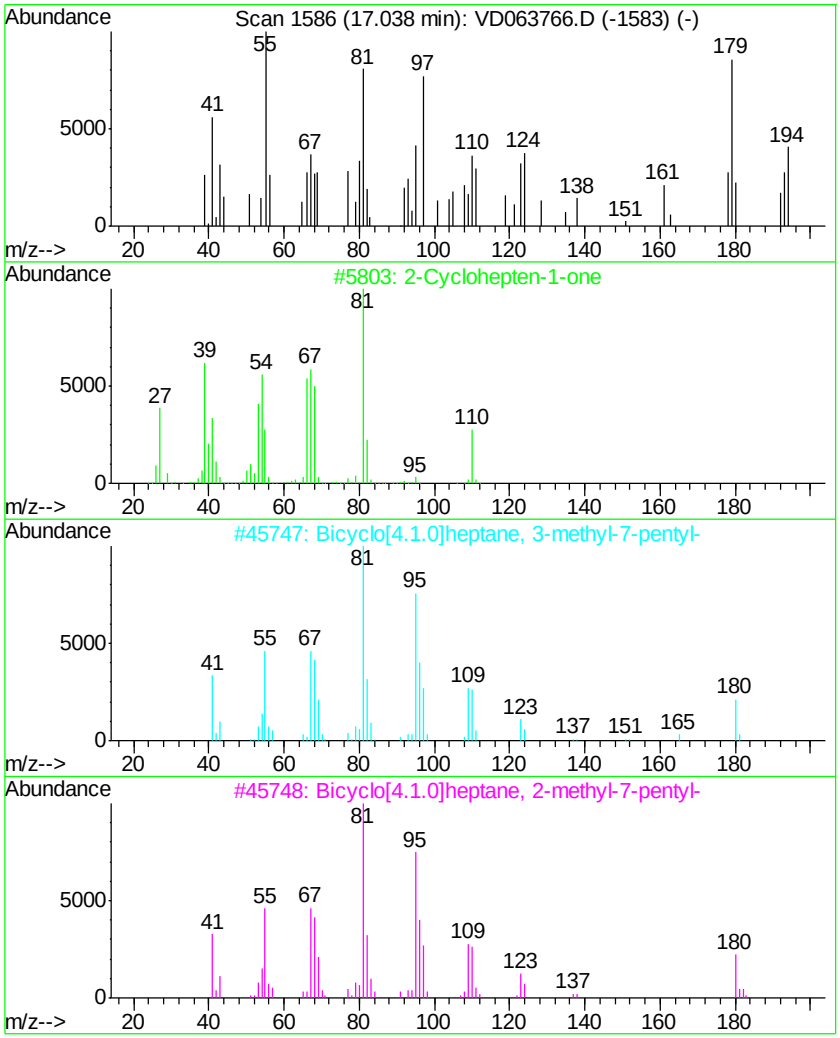
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

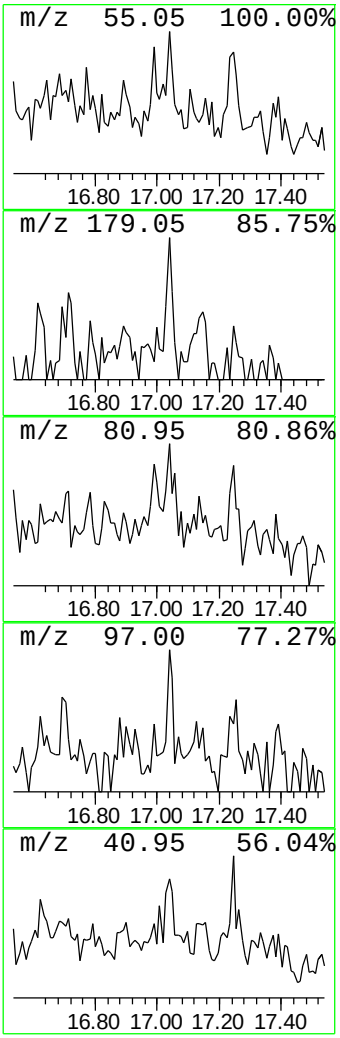
**********

Peak Number 7 unknown17.04 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.04 | 9.22 ug/l | 64334 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclohepten-1-one | 110 | C7H10O | 001121-66-0 | 22 |
| 2 | Bicyclo[4.1.0]heptane, 3-methyl-... | 180 | C13H24 | 041977-48-4 | 14 |
| 3 | Bicyclo[4.1.0]heptane, 2-methyl-... | 180 | C13H24 | 055937-92-3 | 14 |
| 4 | Dichloroacetic acid, 1-cyclopent... | 224 | C9H14Cl2O2 | 1000282-56-3 | 12 |
| 5 | Cyclopentane, 1-isobutylidene-3-... | 138 | C10H18 | 1000150-62-1 | 11 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

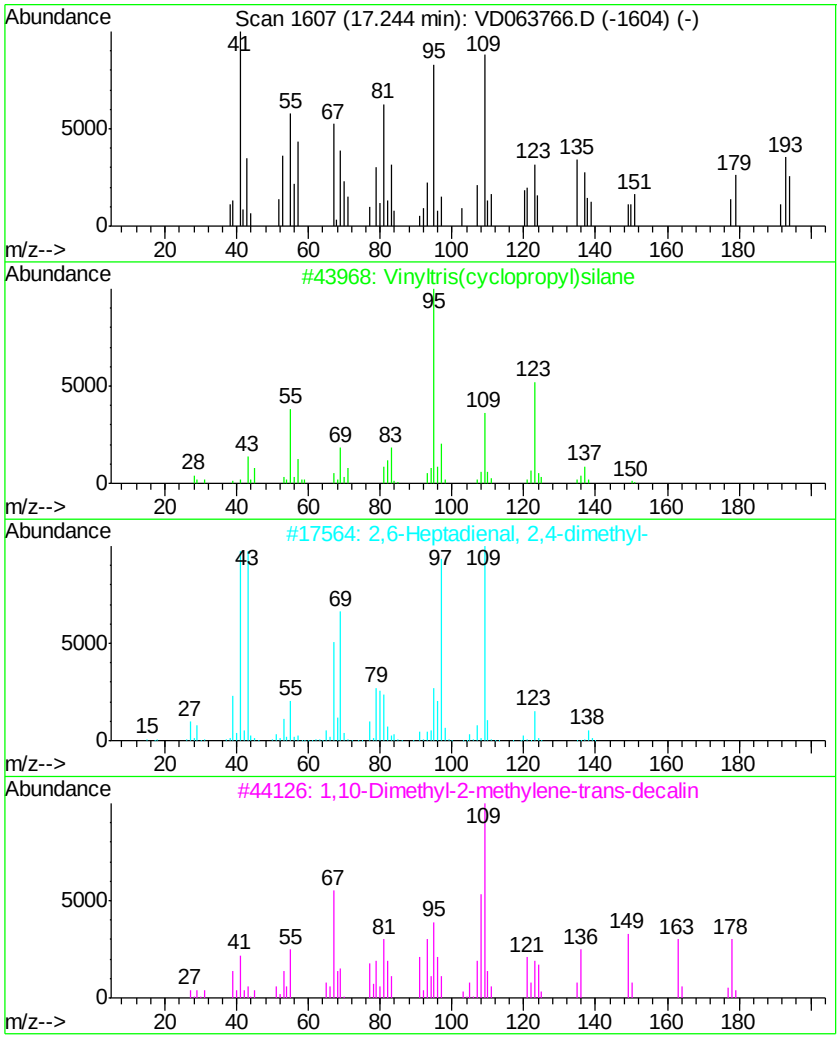
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

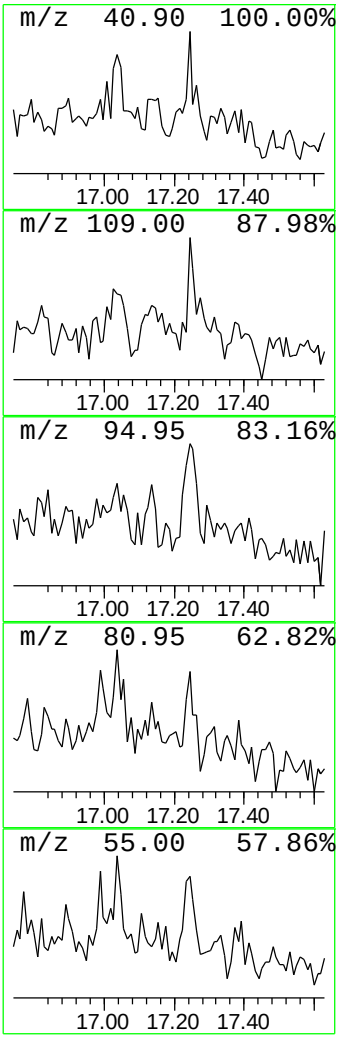
**********

Peak Number 8 unknown17.24 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.24 | 13.69 ug/l | 95551 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Vinyltris(cyclopropyl)silane | 178 | C11H18Si | 1000109-97-3 | 22 |
| 2 | 2,6-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 085136-08-9 | 22 |
| 3 | 1,10-Dimethyl-2-methylene-trans-... | 178 | C13H22 | 1000103-97-8 | 22 |
| 4 | Cyclopentene, 1-isopropyl-4,5-di... | 138 | C10H18 | 007712-74-5 | 14 |
| 5 | Cyclodecene, 3-bromo- | 216 | C10H17Br | 056325-56-5 | 14 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

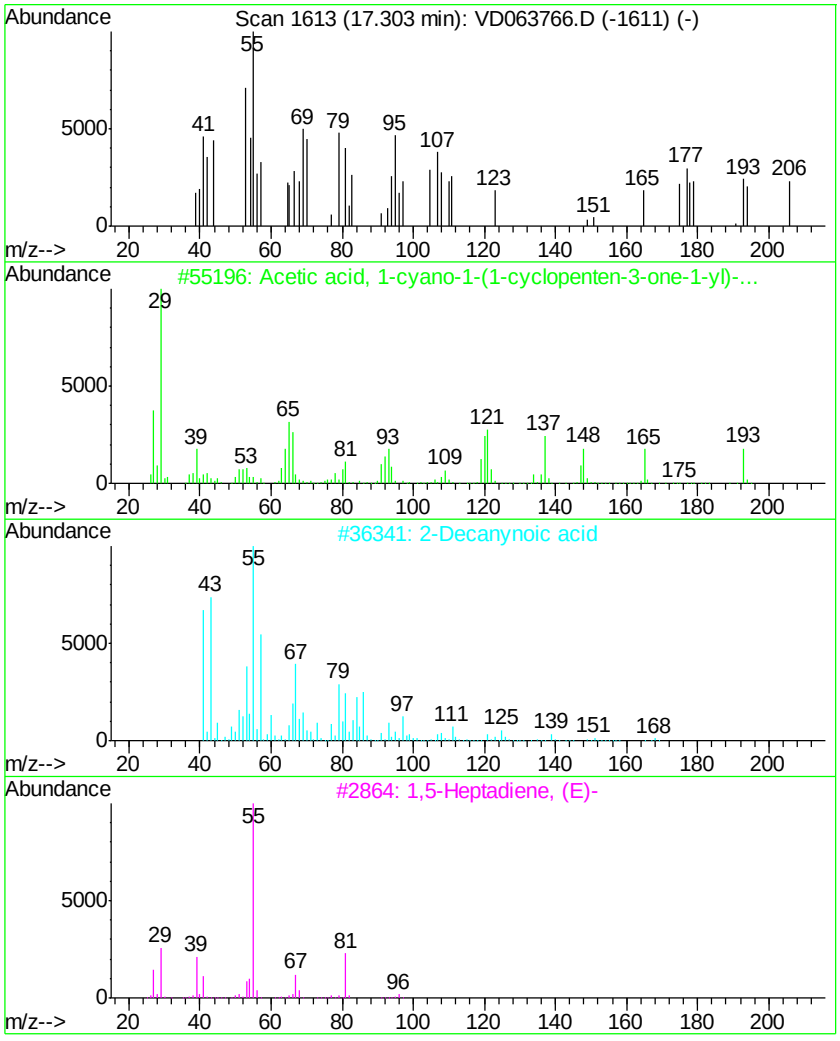
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

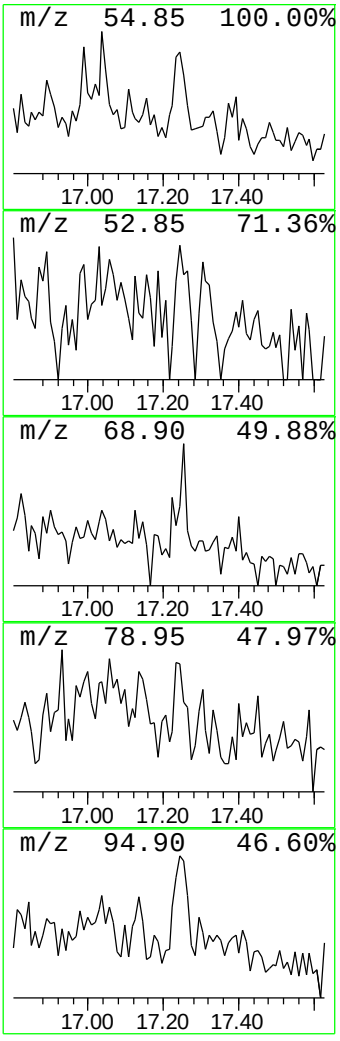
**********

Peak Number 9 unknown17.30 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.30 | 6.69 ug/l | 46663 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, 1-cyano-1-(1-cyclop... | 193 | C10H11NO3 | 1000156-29-2 | 25 |
| 2 | 2-Decanynoic acid | 168 | C10H16O2 | 001851-90-7 | 12 |
| 3 | 1,5-Heptadiene, (E)- | 96 | C7H12 | 007736-22-3 | 10 |
| 4 | 5-Hexynenitrile | 93 | C6H7N | 014918-21-9 | 9 |
| 5 | 5-Cyano-1-pentene | 95 | C6H9N | 005048-19-1 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260

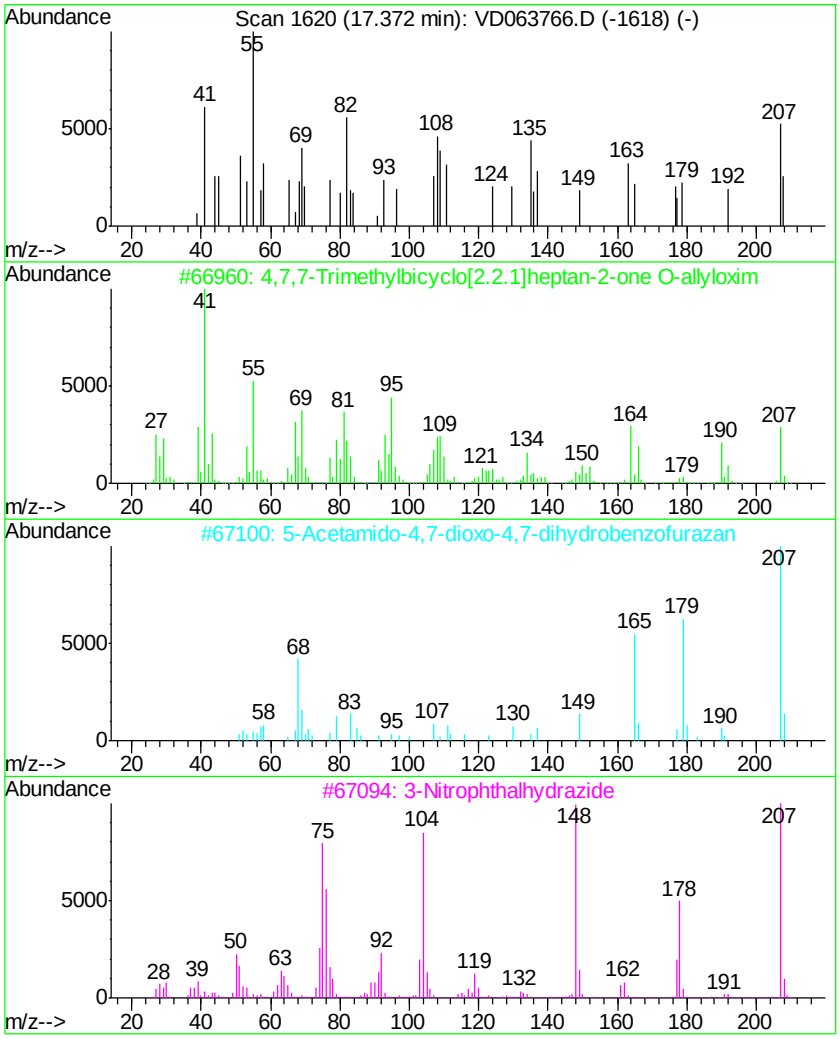
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

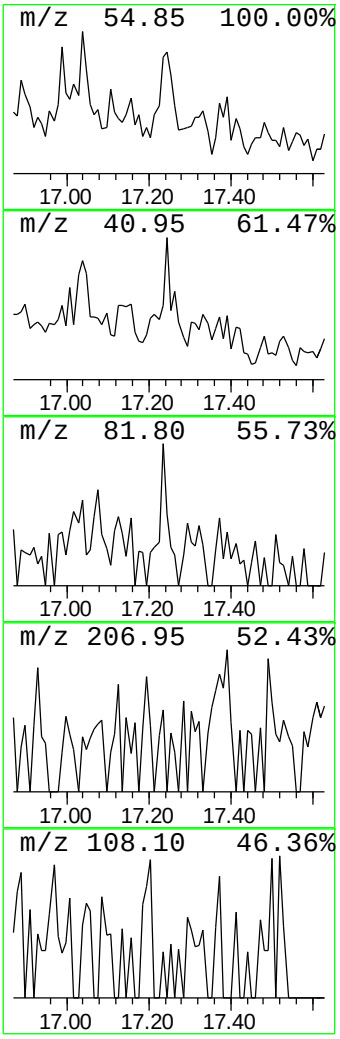
**********

Peak Number 10 unknown17.37 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.37 | 8.48 ug/l | 59156 | 1,4-Dichlorobenzene-d4 | 14.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,7,7-Trimethylbicyclo[2.2.1]hep... | 207 | C13H21NO | 1000210-89-8 | 32 |
| 2 | 5-Acetamido-4,7-dioxo-4,7-dihydr... | 207 | C8H5N3O4 | 153136-27-7 | 9 |
| 3 | 3-Nitrophthalhydrazide | 207 | C8H5N3O4 | 003682-15-3 | 9 |
| 4 | 2-(1-Piperidino)-5-nitropyridine | 207 | C10H13N3O2 | 026820-61-1 | 9 |
| 5 | N-(2-Propenyl)-N-(2-propynyl)-N-... | 109 | C7H11N | 220700-02-7 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082319\
Data File : VD063766.D
Acq On : 23 Aug 2019 15:11
Operator : JC/SY
Sample : K4450-04
Misc : 5.10g/5ml/MSVOA_D/SOIL
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WC-(A-C)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.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 |
| Disulfide, dimethyl | 10.08 | 20.4 | ug/l | 531526 | 2 | 8.21 | 1300530 | 50.0 |
| unknown15.11 | 15.11 | 6.1 | ug/l | 42832 | 4 | 14.52 | 348981 | 50.0 |
| Cyclopentane, 1-b... | 15.34 | 12.5 | ug/l | 87331 | 4 | 14.52 | 348981 | 50.0 |
| unknown16.64 | 16.64 | 9.0 | ug/l | 62607 | 4 | 14.52 | 348981 | 50.0 |
| 2(1H)-Benzocycloo... | 16.99 | 6.6 | ug/l | 46269 | 4 | 14.52 | 348981 | 50.0 |
| unknown17.04 | 17.04 | 9.2 | ug/l | 64334 | 4 | 14.52 | 348981 | 50.0 |
| unknown17.24 | 17.24 | 13.7 | ug/l | 95551 | 4 | 14.52 | 348981 | 50.0 |
| unknown17.30 | 17.30 | 6.7 | ug/l | 46663 | 4 | 14.52 | 348981 | 50.0 |
| unknown17.37 | 17.37 | 8.5 | ug/l | 59156 | 4 | 14.52 | 348981 | 50.0 |