LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

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\82D061918S.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 | 1.213 | 93 | 100 | 102 | rBV | 1458725 | 2929873 | 4.81% | 0.378% |
| 2 | 1.272 | 102 | 106 | 127 | rVB | 1974649 | 6294244 | 10.34% | 0.813% |
| 3 | 5.544 | 529 | 540 | 545 | rBV | 423495 | 1267406 | 2.08% | 0.164% |
| 4 | 5.643 | 545 | 550 | 553 | rVV | 634335 | 2001991 | 3.29% | 0.259% |
| 5 | 5.692 | 553 | 555 | 567 | rVB | 382757 | 1187193 | 1.95% | 0.153% |
| 6 | 6.017 | 580 | 588 | 595 | rBV2 | 360951 | 1000401 | 1.64% | 0.129% |
| 7 | 6.214 | 595 | 608 | 633 | rVB | 3953778 | 18496144 | 30.39% | 2.388% |
| 8 | 6.686 | 650 | 656 | 667 | rBV | 844086 | 2273616 | 3.74% | 0.294% |
| 9 | 6.962 | 677 | 684 | 692 | rBV | 616320 | 2121385 | 3.49% | 0.274% |
| 10 | 7.336 | 705 | 722 | 726 | rBV5 | 1493557 | 8078045 | 13.27% | 1.043% |
| 11 | 7.405 | 726 | 729 | 734 | rVV2 | 1279506 | 3891269 | 6.39% | 0.502% |
| 12 | 7.484 | 734 | 737 | 748 | rVB | 564274 | 1945858 | 3.20% | 0.251% |
| 13 | 7.671 | 748 | 756 | 771 | rVB3 | 597043 | 2698976 | 4.43% | 0.349% |
| 14 | 7.907 | 771 | 780 | 790 | rBV | 3447240 | 13001067 | 21.36% | 1.679% |
| 15 | 8.084 | 790 | 798 | 818 | rVB | 3987307 | 17817319 | 29.27% | 2.301% |
| 16 | 8.380 | 818 | 828 | 835 | rBV2 | 679181 | 2969265 | 4.88% | 0.383% |
| 17 | 8.576 | 842 | 848 | 850 | rBV3 | 178166 | 617784 | 1.02% | 0.080% |
| 18 | 8.665 | 850 | 857 | 865 | rBV2 | 2907174 | 14613784 | 24.01% | 1.887% |
| 19 | 8.941 | 876 | 885 | 898 | rVB3 | 1407742 | 6529047 | 10.73% | 0.843% |
| 20 | 9.216 | 906 | 913 | 923 | rBV | 3448509 | 12090022 | 19.86% | 1.561% |
| 21 | 9.374 | 923 | 929 | 934 | rBV | 1552833 | 4761751 | 7.82% | 0.615% |
| 22 | 9.462 | 934 | 938 | 940 | rBV | 928947 | 2268599 | 3.73% | 0.293% |
| 23 | 9.521 | 940 | 944 | 949 | rVV | 1737416 | 5528688 | 9.08% | 0.714% |
| 24 | 9.600 | 949 | 952 | 958 | rVB | 1248947 | 3750430 | 6.16% | 0.484% |
| 25 | 9.758 | 958 | 968 | 978 | rVB | 5696635 | 23495636 | 38.60% | 3.034% |
| 26 | 9.925 | 978 | 985 | 1001 | rBV2 | 6701969 | 39475363 | 64.86% | 5.097% |
| 27 | 10.132 | 1001 | 1006 | 1010 | rBV | 3891911 | 12084511 | 19.85% | 1.560% |
| 28 | 10.211 | 1010 | 1014 | 1020 | rVB3 | 2817421 | 8863316 | 14.56% | 1.145% |
| 29 | 10.309 | 1021 | 1024 | 1027 | rBV | 416053 | 937892 | 1.54% | 0.121% |
| 30 | 10.447 | 1032 | 1038 | 1049 | rVB | 7642900 | 27066236 | 44.47% | 3.495% |
| 31 | 10.693 | 1054 | 1063 | 1068 | rBV4 | 2380973 | 10351272 | 17.01% | 1.337% |
| 32 | 10.791 | 1068 | 1073 | 1079 | rVB3 | 2818451 | 10964502 | 18.01% | 1.416% |
| 33 | 10.900 | 1079 | 1084 | 1089 | rBV | 4242723 | 14133433 | 23.22% | 1.825% |
| 34 | 11.008 | 1089 | 1095 | 1097 | rBV2 | 3872643 | 12028613 | 19.76% | 1.553% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

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\82D061918S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.067 | 1097 | 1101 | 1104 | rBV2 | 6899067 | 18616855 | 30.59% | 2.404% |
| 36 | 11.116 | 1104 | 1106 | 1113 | rVB | 9613433 | 28564953 | 46.93% | 3.689% |
| 37 | 11.225 | 1113 | 1117 | 1122 | rBV | 3411503 | 8245771 | 13.55% | 1.065% |
| 38 | 11.313 | 1122 | 1126 | 1128 | rBV2 | 3632908 | 9806874 | 16.11% | 1.266% |
| 39 | 11.402 | 1128 | 1135 | 1140 | rBV6 | 11530786 | 57509418 | 94.49% | 7.426% |
| 40 | 11.589 | 1147 | 1154 | 1159 | rBV6 | 9784403 | 51202616 | 84.13% | 6.612% |
| 41 | 11.707 | 1163 | 1166 | 1180 | rVB6 | 11250054 | 60864197 | 100.00% | 7.859% |
| 42 | 11.874 | 1180 | 1183 | 1184 | rBV2 | 6506635 | 12696293 | 20.86% | 1.639% |
| 43 | 12.012 | 1194 | 1197 | 1200 | rBV3 | 4446566 | 12255128 | 20.14% | 1.583% |
| 44 | 12.248 | 1216 | 1221 | 1224 | rBV6 | 5806459 | 19645800 | 32.28% | 2.537% |
| 45 | 12.563 | 1248 | 1253 | 1256 | rBV5 | 5346648 | 18433560 | 30.29% | 2.380% |
| 46 | 12.790 | 1271 | 1276 | 1279 | rBV3 | 8310380 | 23556681 | 38.70% | 3.042% |
| 47 | 12.839 | 1279 | 1281 | 1283 | rVB | 4463942 | 6018207 | 9.89% | 0.777% |
| 48 | 13.253 | 1317 | 1323 | 1327 | rBV6 | 9009933 | 25750924 | 42.31% | 3.325% |
| 49 | 13.508 | 1348 | 1349 | 1352 | rVB | 4313367 | 5227030 | 8.59% | 0.675% |
| 50 | 13.568 | 1352 | 1355 | 1358 | rVV4 | 11663002 | 25742318 | 42.29% | 3.324% |
| 51 | 13.617 | 1358 | 1360 | 1361 | rVV | 3706202 | 5034892 | 8.27% | 0.650% |
| 52 | 13.646 | 1361 | 1363 | 1364 | rVV | 4772380 | 6933083 | 11.39% | 0.895% |
| 53 | 13.676 | 1364 | 1366 | 1367 | rVV | 8523660 | 12399944 | 20.37% | 1.601% |
| 54 | 13.715 | 1367 | 1370 | 1377 | rVV5 | 12763311 | 41658525 | 68.45% | 5.379% |
| 55 | 13.804 | 1377 | 1379 | 1381 | rVV | 5604412 | 7793771 | 12.81% | 1.006% |
| 56 | 13.833 | 1381 | 1382 | 1385 | rVV2 | 6140186 | 7919842 | 13.01% | 1.023% |
| 57 | 13.873 | 1385 | 1386 | 1390 | rVB3 | 2729556 | 4248804 | 6.98% | 0.549% |
| 58 | 13.932 | 1390 | 1392 | 1394 | rVB2 | 1069655 | 1494264 | 2.46% | 0.193% |
| 59 | 13.981 | 1394 | 1397 | 1399 | rVB3 | 366634 | 609865 | 1.00% | 0.079% |
| 60 | 14.070 | 1404 | 1406 | 1408 | rVB2 | 1210625 | 1447661 | 2.38% | 0.187% |
| 61 | 14.217 | 1418 | 1421 | 1423 | rVB | 1849631 | 2550101 | 4.19% | 0.329% |
| 62 | 14.276 | 1425 | 1427 | 1430 | rVB | 482463 | 645350 | 1.06% | 0.083% |

Sum of corrected areas: 774407658

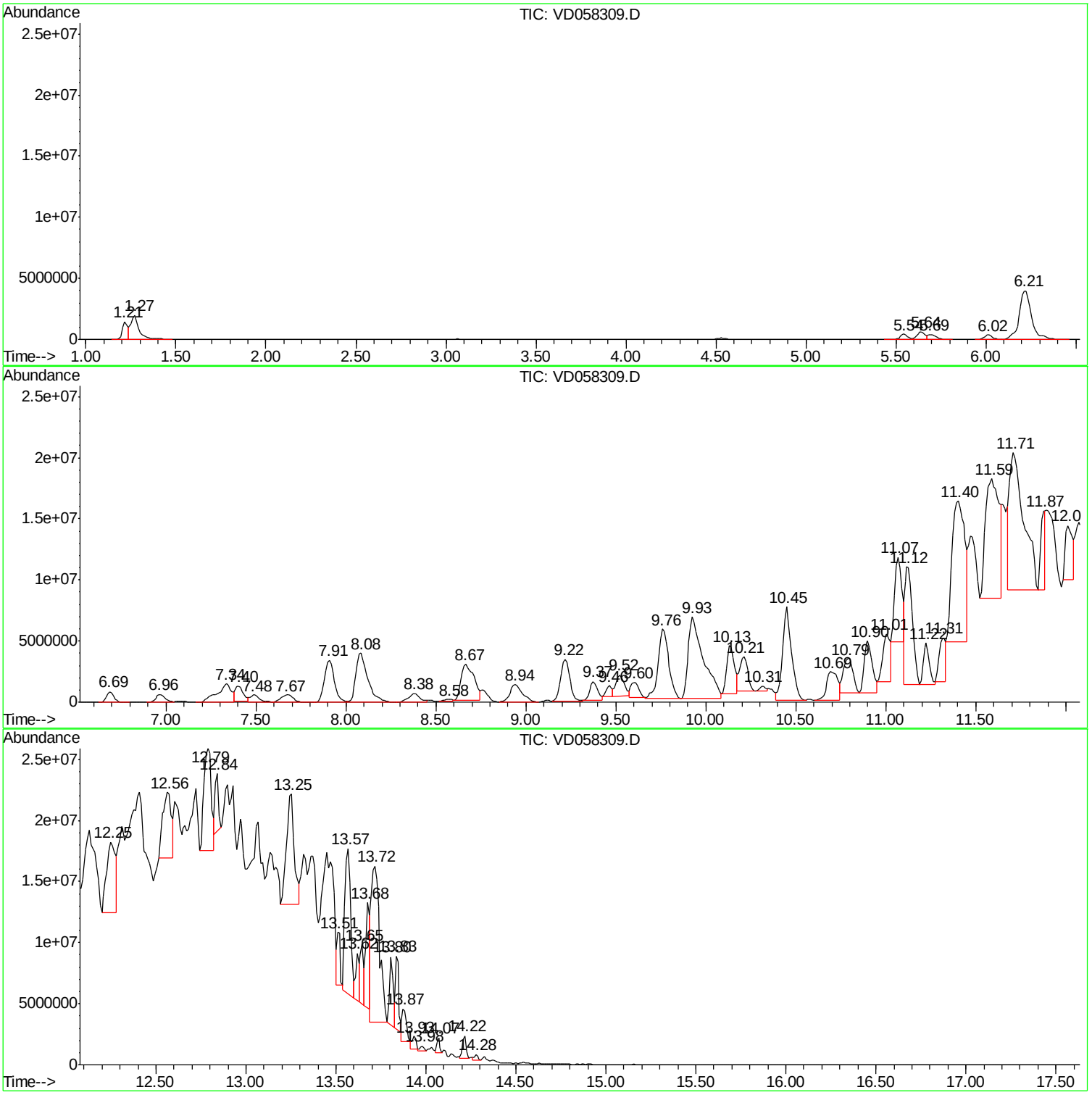
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.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 D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

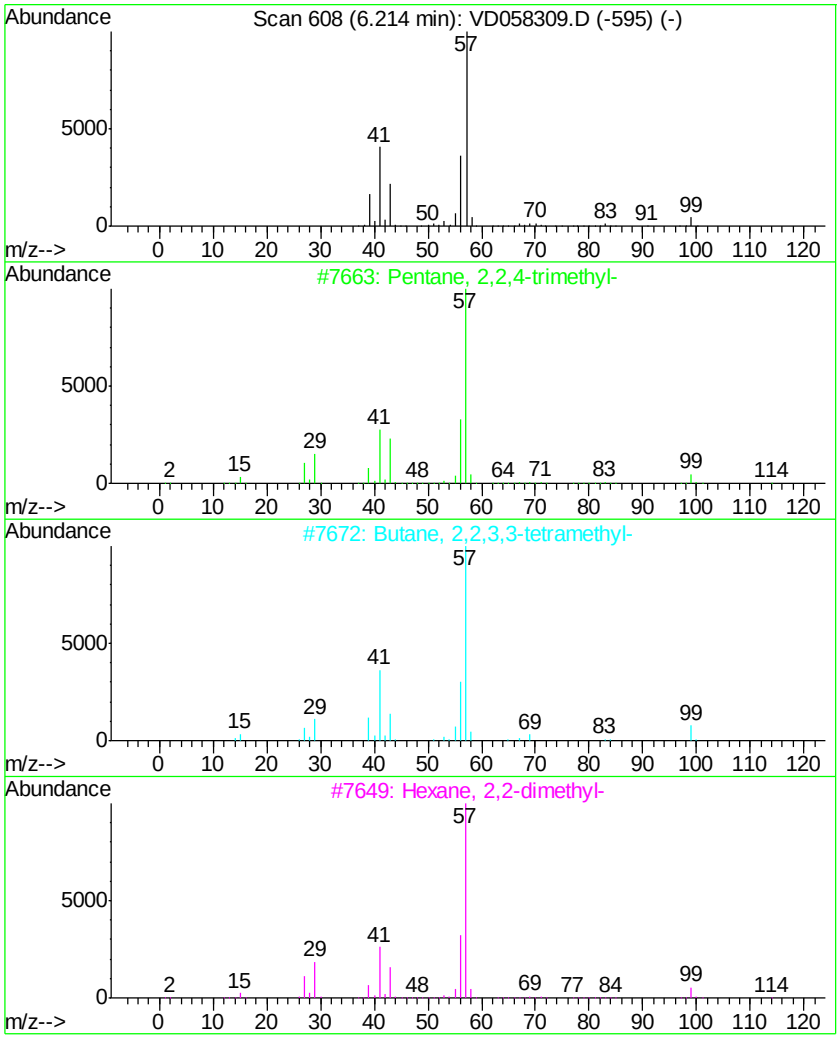
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

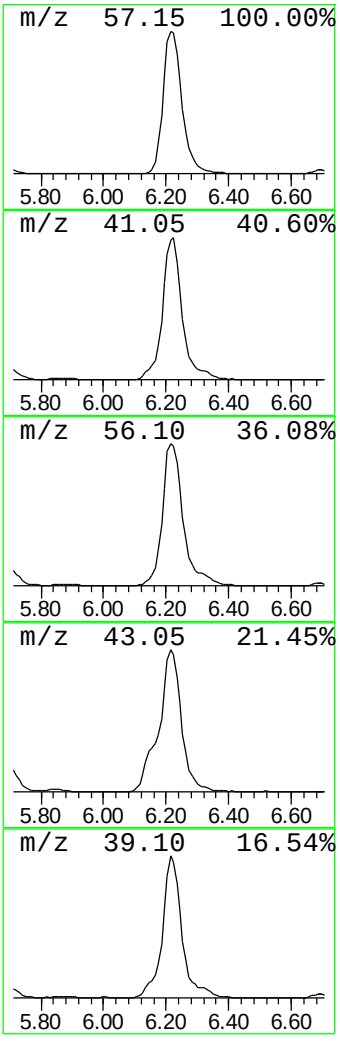
**********

Peak Number 1 Pentane, 2,2,4-trimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.21 | 406.76 ug/l | 18496100 | 1,4-Difluorobenzene | 6.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 64 |
| 2 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 64 |
| 3 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 64 |
| 4 | Pentane, 2,2,3-trimethyl- | 114 | C8H18 | 000564-02-3 | 42 |
| 5 | Decane, 2,2,6-trimethyl- | 184 | C13H28 | 062237-97-2 | 42 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

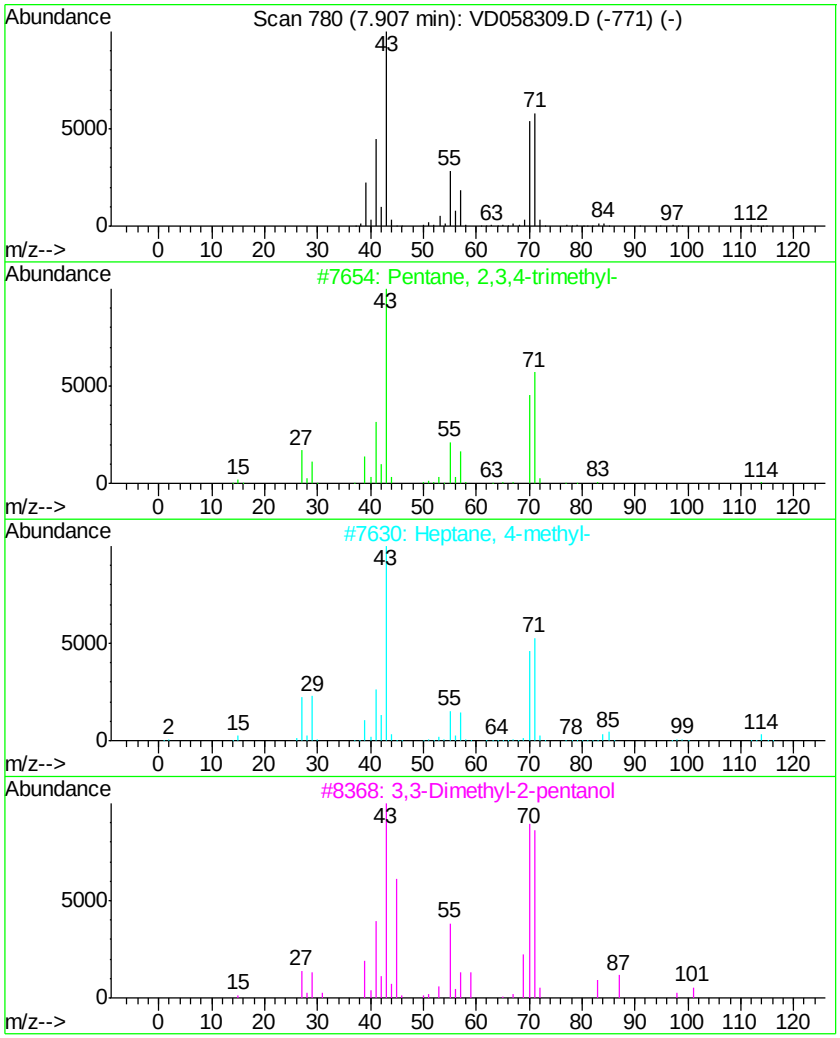
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

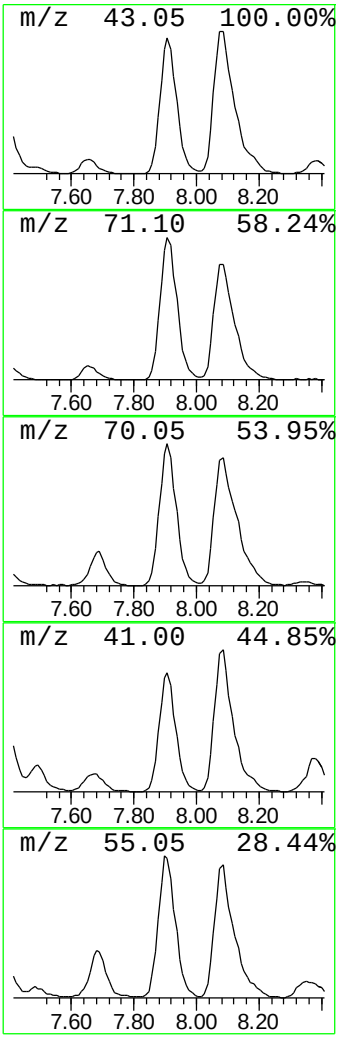
**********

Peak Number 2 Pentane, 2,3,4-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.91 | 285.91 ug/l | 13001100 | 1,4-Difluorobenzene | 6.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 83 |
| 3 | 3,3-Dimethyl-2-pentanol | 116 | C7H16O | 019781-24-9 | 64 |
| 4 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 64 |
| 5 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

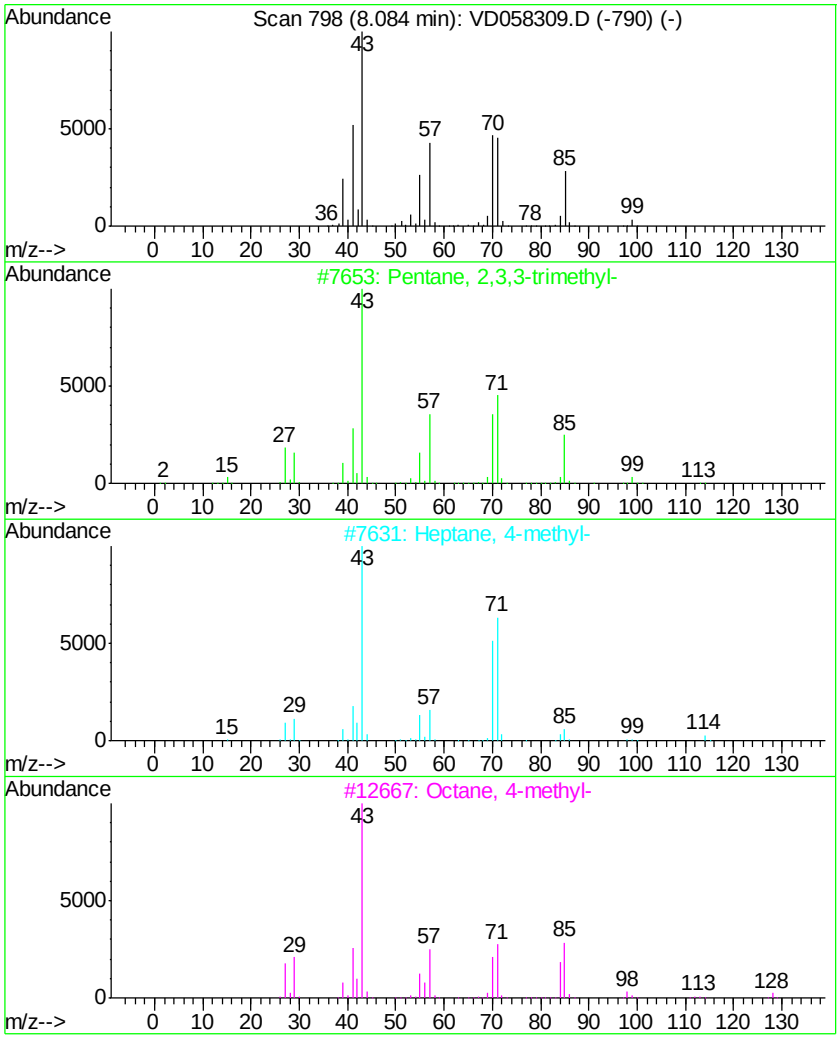
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

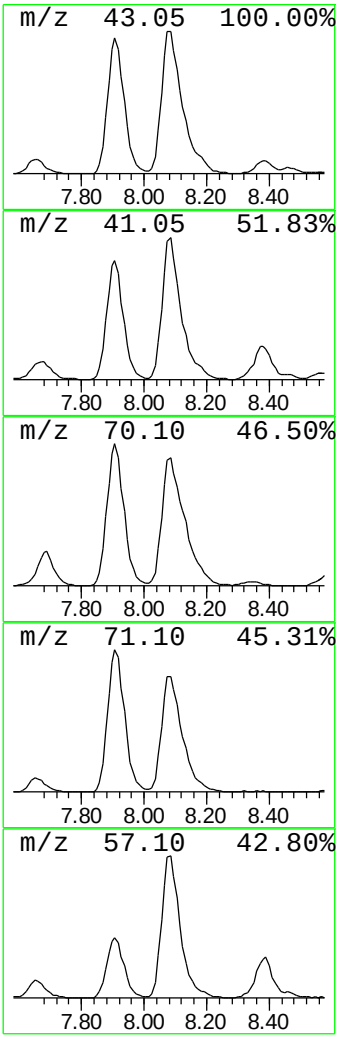
**********

Peak Number 3 Pentane, 2,3,3-trimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.08 | 391.83 ug/l | 17817300 | 1,4-Difluorobenzene | 6.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 90 |
| 2 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 64 |
| 3 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 64 |
| 4 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 64 |
| 5 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

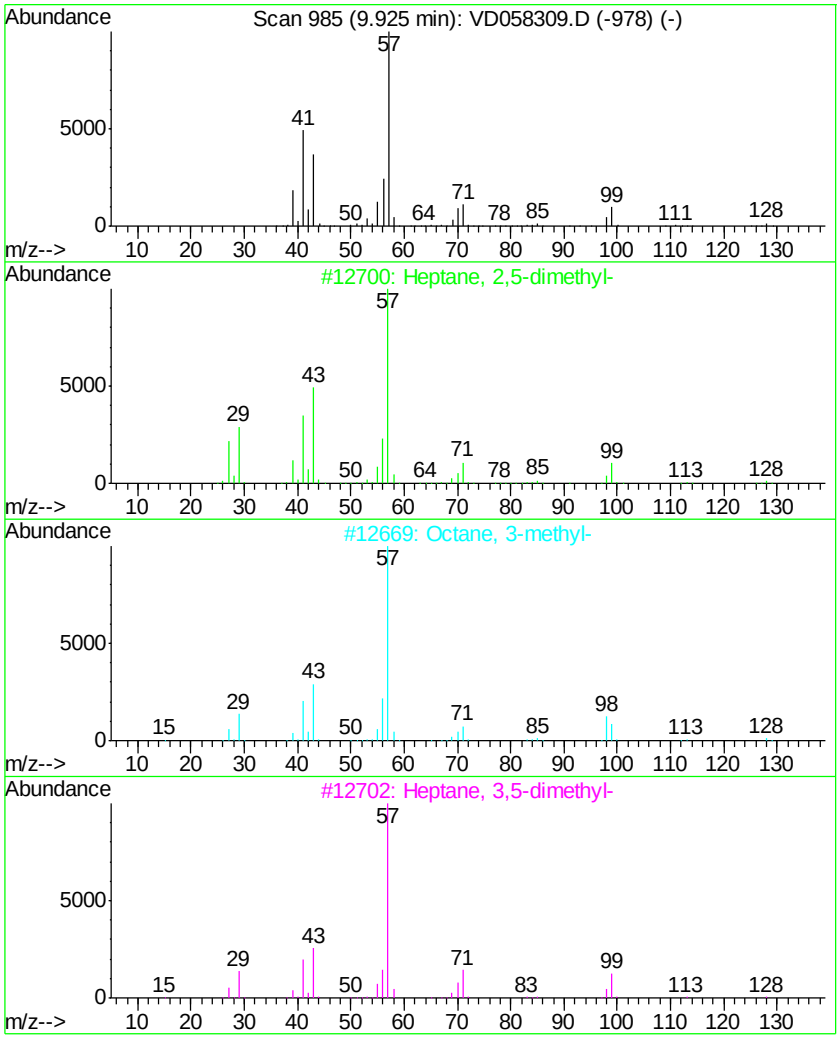
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

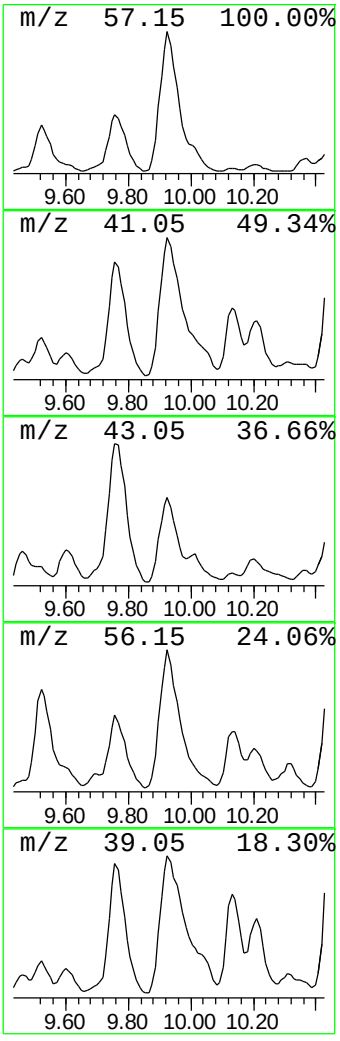
**********

Peak Number 4 Heptane, 2,5-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.93 | 190.68 ug/l | 39475400 | Chlorobenzene-d5 | 10.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 91 |
| 2 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 80 |
| 3 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 64 |
| 4 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 53 |
| 5 | 2,2,4,4-Tetramethyloctane | 170 | C12H26 | 062183-79-3 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

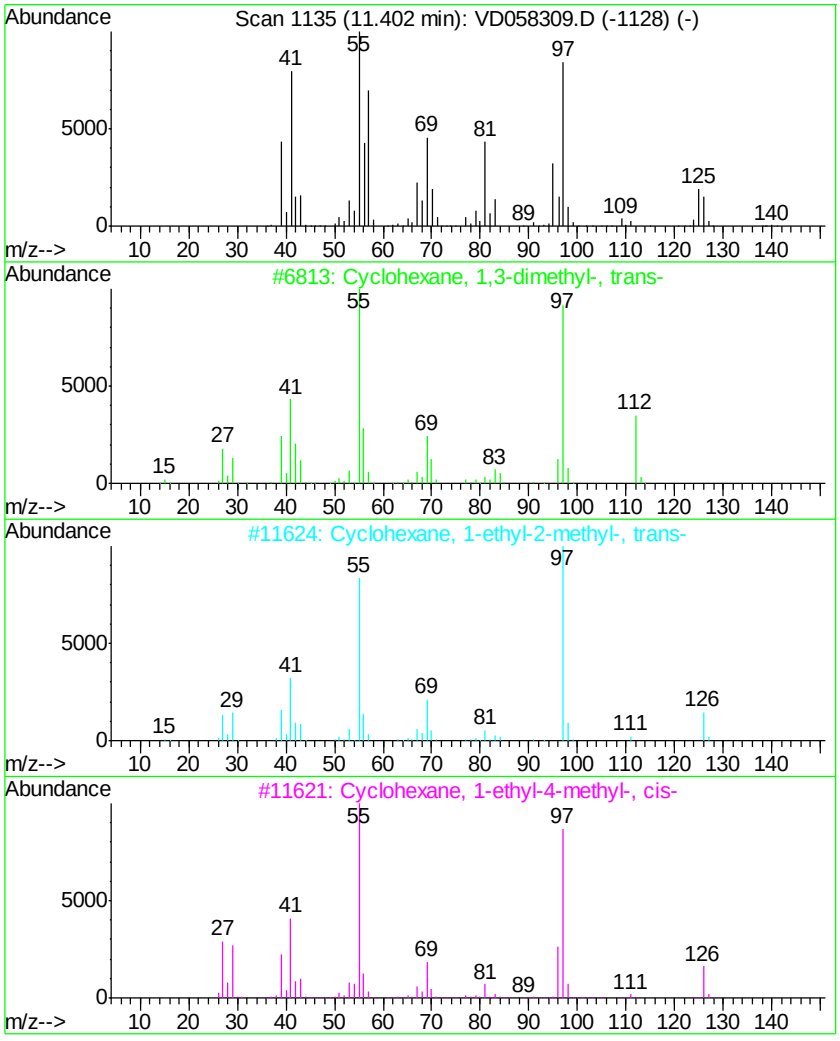
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

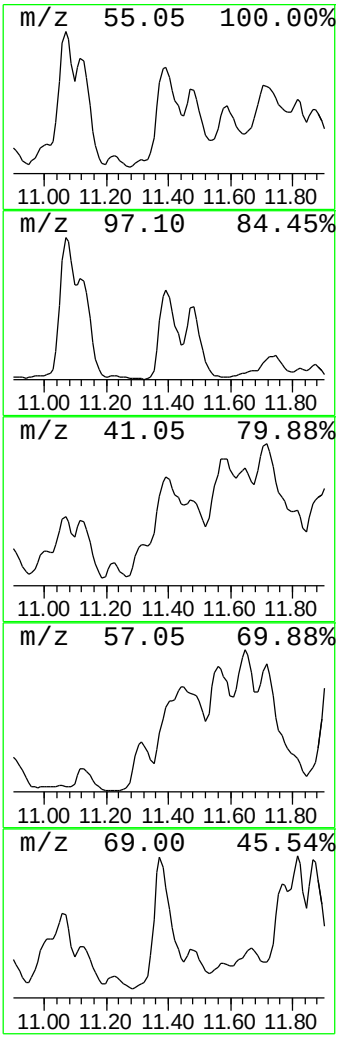
**********

Peak Number 5 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.40 | 277.79 ug/l | 57509400 | Chlorobenzene-d5 | 10.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 58 |
| 2 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 46 |
| 3 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 46 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 46 |
| 5 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 46 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

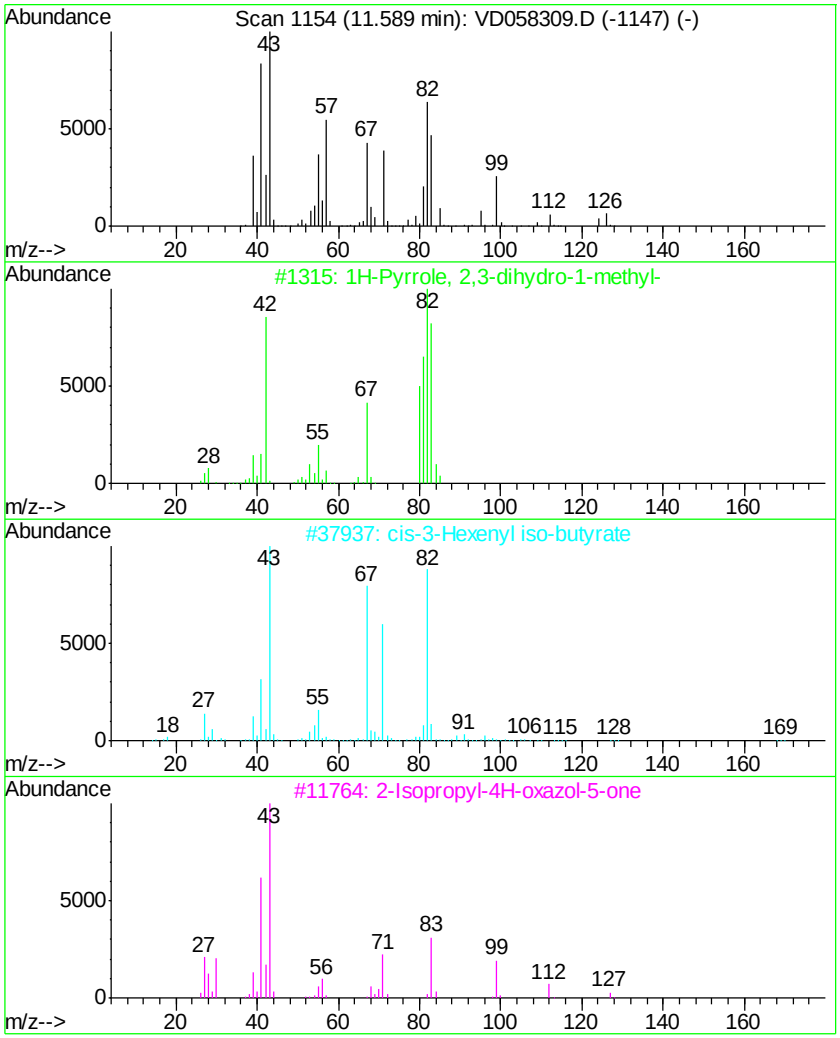
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

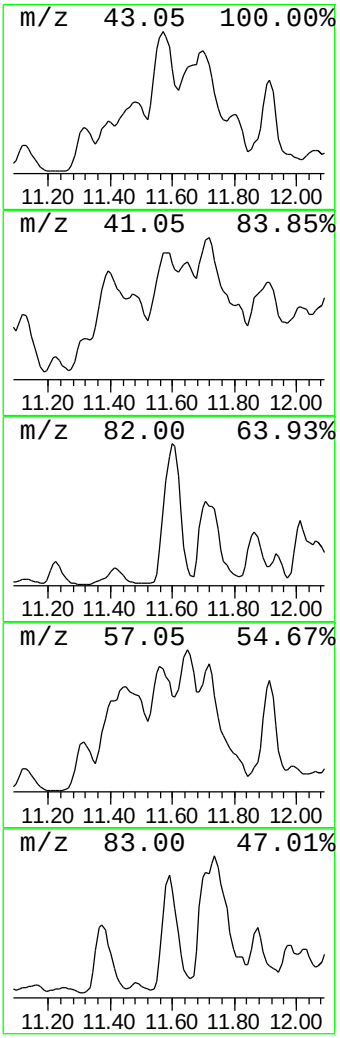
**********

Peak Number 6 unknown11.59 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.59 | 247.33 ug/l | 51202600 | Chlorobenzene-d5 | 10.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Pyrrole, 2,3-dihydro-1-methyl- | 83 | C5H9N | 033838-11-8 | 47 |
| 2 | cis-3-Hexenyl iso-butyrate | 170 | C10H18O2 | 041519-23-7 | 43 |
| 3 | 2-Isopropyl-4H-oxazol-5-one | 127 | C6H9NO2 | 1000190-01-9 | 38 |
| 4 | 3-Hexen-1-ol, (E)- | 100 | C6H12O | 000928-97-2 | 22 |
| 5 | Azeleonitrile | 150 | C9H14N2 | 001675-69-0 | 22 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

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

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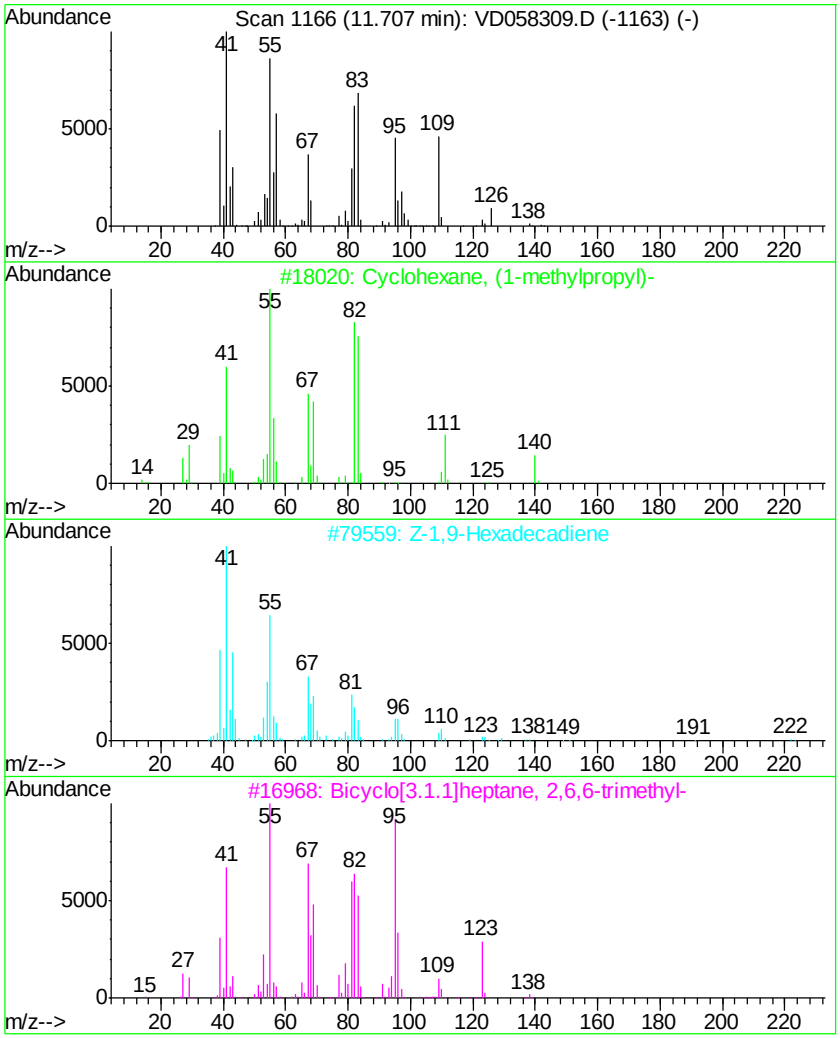
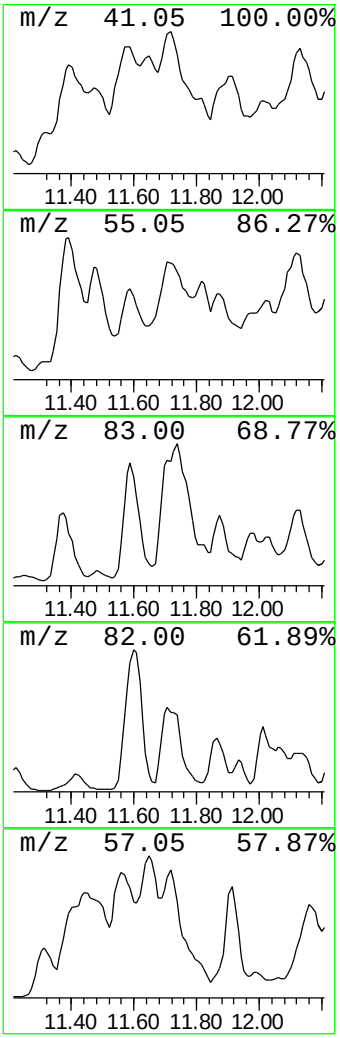
Peak Number 7 unknown11.71 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.71 | 293.99 ug/l | 60864200 | Chlorobenzene-d5 | 10.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylpropyl)- | 140 | C10H20 | 007058-01-7 | 46 |
| 2 | Z-1,9-Hexadecadiene | 222 | C16H30 | 1000245-71-3 | 43 |
| 3 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 000473-55-2 | 38 |
| 4 | 4-t-Butyl-2-(1-methyl-2-nitroeth... | 241 | C13H23NO3 | 1000192-74-8 | 38 |
| 5 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

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

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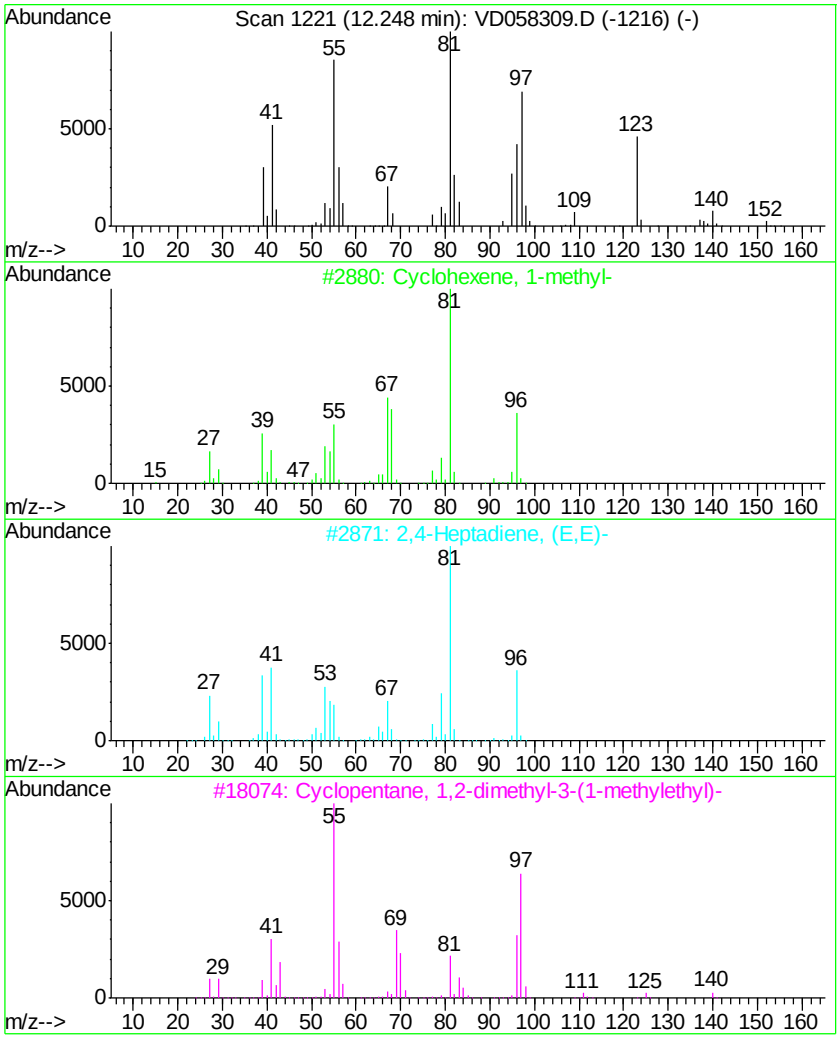
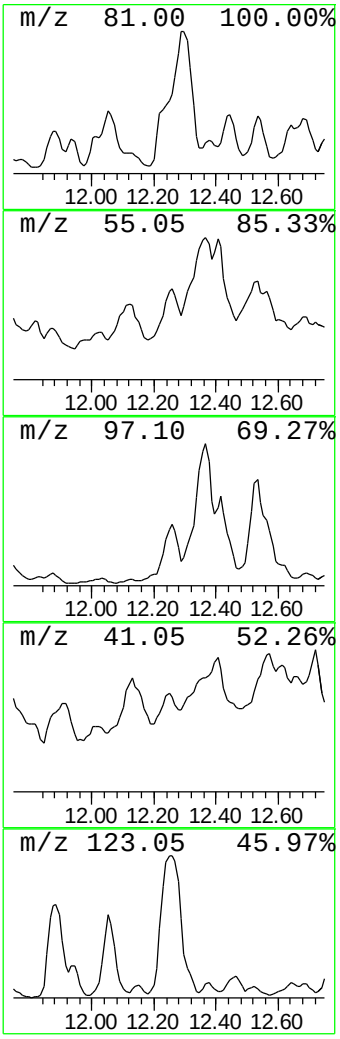
Peak Number 8 unknown12.25 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.25 | 163.22 ug/l | 19645800 | 1,4-Dichlorobenzene-d4 | 12.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1-methyl- | 96 | C7H12 | 000591-49-1 | 38 |
| 2 | 2,4-Heptadiene, (E,E)- | 96 | C7H12 | 002384-94-3 | 35 |
| 3 | Cyclopentane, 1,2-dimethyl-3-(1-... | 140 | C10H20 | 000489-20-3 | 35 |
| 4 | Cyclopentane, 1-methyl-3-(2-meth... | 140 | C10H20 | 029053-04-1 | 35 |
| 5 | 1-Nonylcycloheptane | 224 | C16H32 | 1000371-47-7 | 35 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

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

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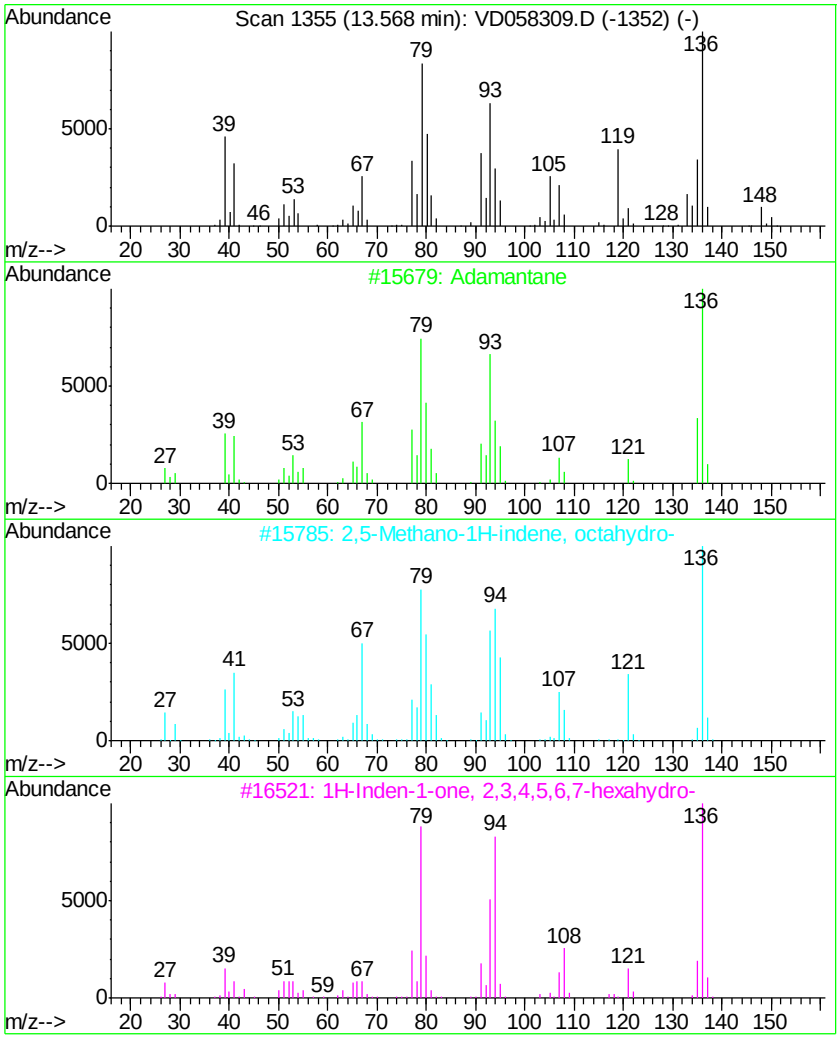
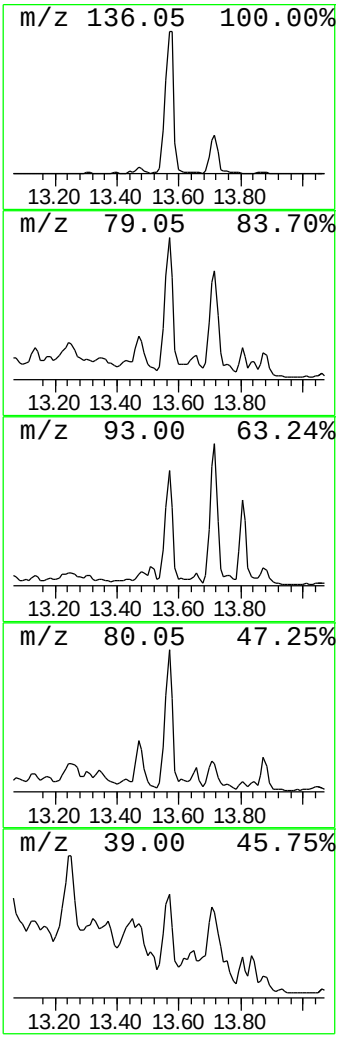
Peak Number 9 Adamantane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.57 | 213.87 ug/l | 25742300 | 1,4-Dichlorobenzene-d4 | 12.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Adamantane | 136 | C10H16 | 000281-23-2 | 91 |
| 2 | 2,5-Methano-1H-indene, octahydro- | 136 | C10H16 | 019026-94-9 | 64 |
| 3 | 1H-Inden-1-one, 2,3,4,5,6,7-hexa... | 136 | C9H12O | 022118-00-9 | 58 |
| 4 | Bicyclo[3.3.1]non-2-en-9-one | 136 | C9H12O | 004844-11-5 | 58 |
| 5 | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16 | 000497-32-5 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260

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

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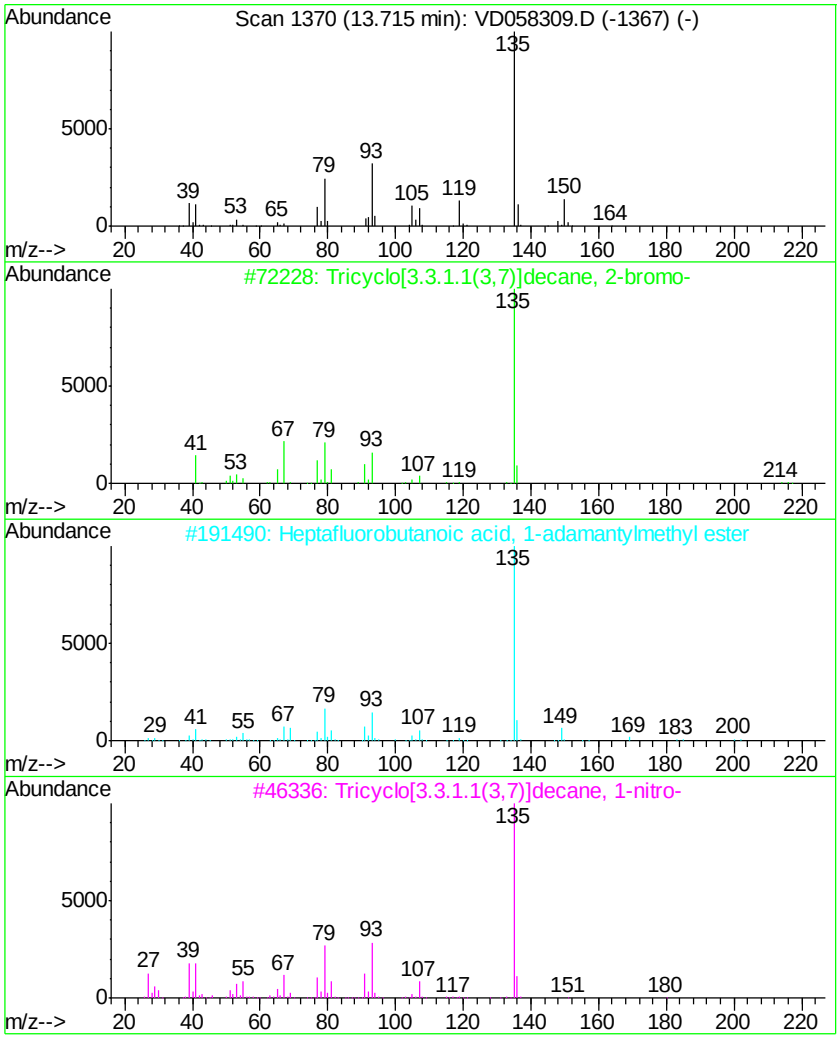
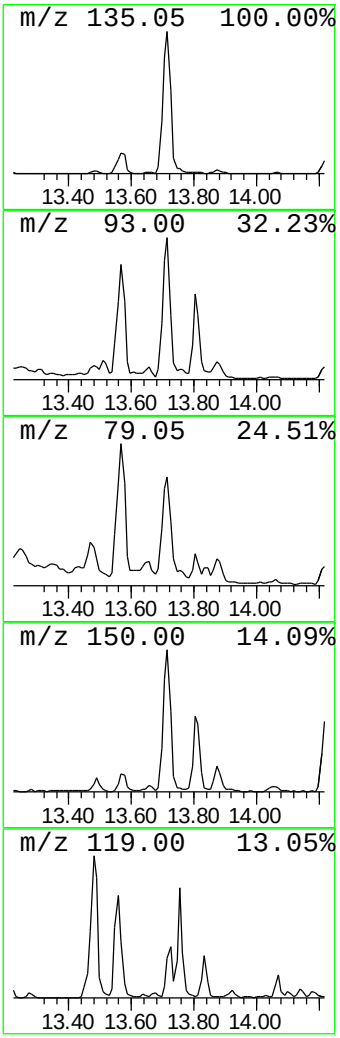
Peak Number 10 Tricyclo[3.3.1.1(3,7)]decan... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.72 | 346.10 ug/l | 41658500 | 1,4-Dichlorobenzene-d4 | 12.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tricyclo[3.3.1.1(3,7)]decane, 2-... | 214 | C10H15Br | 007314-85-4 | 64 |
| 2 | Heptafluorobutanoic acid, 1-adam... | 362 | C15H17F7O2 | 1000282-96-9 | 64 |
| 3 | Tricyclo[3.3.1.1(3,7)]decane, 1-... | 181 | C10H15NO2 | 007575-82-8 | 64 |
| 4 | 1-Adamantanecarboxylic acid chlo... | 198 | C11H15ClO | 002094-72-6 | 64 |
| 5 | 1-Adamantan-1-yl-6-chloro-7-fluo... | 389 | C21H21ClFNO3 | 1000210-85-2 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD062218\
Data File : VD058309.D
Acq On : 22 Jun 2018 21:12
Operator : VA/AP
Sample : J3663-12
Misc : 8.94g/5ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** WP021SB470-27-29-180618

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.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 |
| Pentane, 2,2,4-tr... | 6.21 | 406.8 | ug/l | 18496100 | 2 | 6.69 | 2273620 | 50.0 |
| Pentane, 2,3,4-tr... | 7.91 | 285.9 | ug/l | 13001100 | 2 | 6.69 | 2273620 | 50.0 |
| Pentane, 2,3,3-tr... | 8.08 | 391.8 | ug/l | 17817300 | 2 | 6.69 | 2273620 | 50.0 |
| Heptane, 2,5-dime... | 9.93 | 190.7 | ug/l | 39475400 | 3 | 10.69 | 10351300 | 50.0 |
| Cyclohexane, 1,3-... | 11.40 | 277.8 | ug/l | 57509400 | 3 | 10.69 | 10351300 | 50.0 |
| unknown11.59 | 11.59 | 247.3 | ug/l | 51202600 | 3 | 10.69 | 10351300 | 50.0 |
| unknown11.71 | 11.71 | 294.0 | ug/l | 60864200 | 3 | 10.69 | 10351300 | 50.0 |
| unknown12.25 | 12.25 | 163.2 | ug/l | 19645800 | 4 | 12.92 | 6018210 | 50.0 |
| Adamantane | 13.57 | 213.9 | ug/l | 25742300 | 4 | 12.92 | 6018210 | 50.0 |
| Tricyclo[3.3.1.1(... | 13.72 | 346.1 | ug/l | 41658500 | 4 | 12.92 | 6018210 | 50.0 |