LSC Area Percent Report

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091715\
Data File : VF045413.D
Acq On : 17 Sep 2015 18:23
Operator : FY/SY
Sample : G3708-02
Misc : 12.20g/5mL/MSVOA F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

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 : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.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 | 1.036 | 49 | 51 | 59 | rVB2 | 100699 | 192738 | 4.52% | 0.659% |
| 2 | 1.400 | 83 | 88 | 93 | rBV2 | 130480 | 294263 | 6.90% | 1.006% |
| 3 | 1.971 | 143 | 146 | 157 | rVB5 | 43800 | 121622 | 2.85% | 0.416% |
| 4 | 2.139 | 159 | 163 | 166 | rBV3 | 54381 | 118245 | 2.77% | 0.404% |
| 5 | 2.188 | 166 | 168 | 173 | rVB2 | 39804 | 83914 | 1.97% | 0.287% |
| 6 | 2.346 | 178 | 184 | 191 | rVB | 158001 | 385734 | 9.05% | 1.319% |
| 7 | 4.050 | 350 | 357 | 371 | rVB2 | 569477 | 1781423 | 41.80% | 6.093% |
| 8 | 4.582 | 404 | 411 | 412 | rBV5 | 21198 | 43949 | 1.03% | 0.150% |
| 9 | 4.631 | 412 | 416 | 423 | rVB4 | 65111 | 201200 | 4.72% | 0.688% |
| 10 | 4.818 | 423 | 435 | 451 | rBV3 | 1128810 | 4261789 | 100.00% | 14.576% |
| 11 | 5.547 | 503 | 509 | 519 | rBV | 1304896 | 3613950 | 84.80% | 12.361% |
| 12 | 6.818 | 630 | 638 | 642 | rBV3 | 28250 | 92210 | 2.16% | 0.315% |
| 13 | 7.340 | 688 | 691 | 695 | rBV2 | 52272 | 100900 | 2.37% | 0.345% |
| 14 | 7.448 | 695 | 702 | 703 | rBV | 97576 | 180746 | 4.24% | 0.618% |
| 15 | 7.507 | 703 | 708 | 715 | rVV | 1728595 | 3932881 | 92.28% | 13.451% |
| 16 | 7.704 | 725 | 728 | 732 | rVV4 | 23053 | 50655 | 1.19% | 0.173% |
| 17 | 7.813 | 735 | 739 | 743 | rVB3 | 33290 | 71551 | 1.68% | 0.245% |
| 18 | 7.980 | 753 | 756 | 761 | rVB2 | 30569 | 65293 | 1.53% | 0.223% |
| 19 | 9.428 | 897 | 903 | 915 | rBV | 164555 | 427282 | 10.03% | 1.461% |
| 20 | 9.714 | 927 | 932 | 941 | rBV | 1751886 | 4013300 | 94.17% | 13.727% |
| 21 | 9.852 | 941 | 946 | 949 | rVB2 | 72744 | 172508 | 4.05% | 0.590% |
| 22 | 10.078 | 965 | 969 | 972 | rBV3 | 23774 | 47351 | 1.11% | 0.162% |
| 23 | 10.738 | 1031 | 1036 | 1039 | rBV4 | 18926 | 46778 | 1.10% | 0.160% |
| 24 | 11.241 | 1084 | 1087 | 1092 | rBV | 31678 | 62331 | 1.46% | 0.213% |
| 25 | 11.359 | 1095 | 1099 | 1104 | rVV | 1584245 | 2951306 | 69.25% | 10.094% |
| 26 | 11.438 | 1104 | 1107 | 1114 | rVV | 267793 | 563474 | 13.22% | 1.927% |
| 27 | 11.526 | 1114 | 1116 | 1121 | rVV4 | 18482 | 47133 | 1.11% | 0.161% |
| 28 | 11.615 | 1121 | 1125 | 1128 | rVV | 40946 | 71375 | 1.67% | 0.244% |
| 29 | 12.107 | 1171 | 1175 | 1178 | rBV | 246806 | 379257 | 8.90% | 1.297% |
| 30 | 12.501 | 1211 | 1215 | 1225 | rVB | 2106110 | 3613207 | 84.78% | 12.358% |
| 31 | 12.679 | 1229 | 1233 | 1235 | rBV | 150868 | 251505 | 5.90% | 0.860% |
| 32 | 12.895 | 1250 | 1255 | 1259 | rBV | 371541 | 692470 | 16.25% | 2.368% |
| 33 | 12.954 | 1259 | 1261 | 1266 | rVB | 40338 | 64670 | 1.52% | 0.221% |
| 34 | 13.664 | 1330 | 1333 | 1339 | rVB2 | 68270 | 110866 | 2.60% | 0.379% |

LSC Area Percent Report

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Sample : G3708-02
Misc : 12.20g/5mL/MSVOA F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

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 : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.393 | 1403 | 1407 | 1412 | rBV | 67306 | 129695 | 3.04% | 0.444% |

Sum of corrected areas: 29237571

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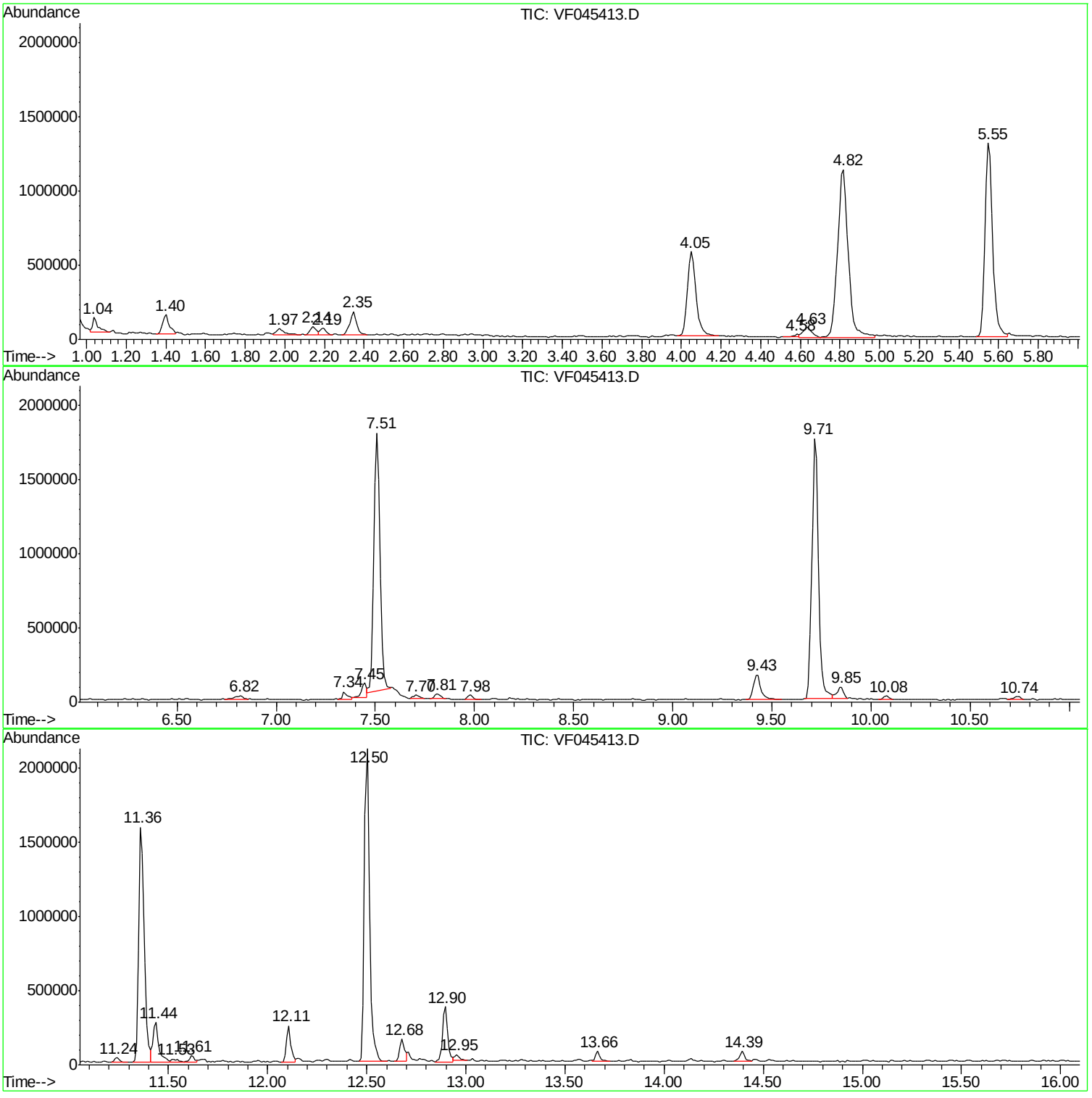
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**
MGP2090BR-15-17

Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF091715\
Data File : VF045413.D
Acq On : 17 Sep 2015 18:23
Operator : FY/SY
Sample : G3708-02
Misc : 12.20g/5mL/MSVOA F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Quant Title : SW846 8260

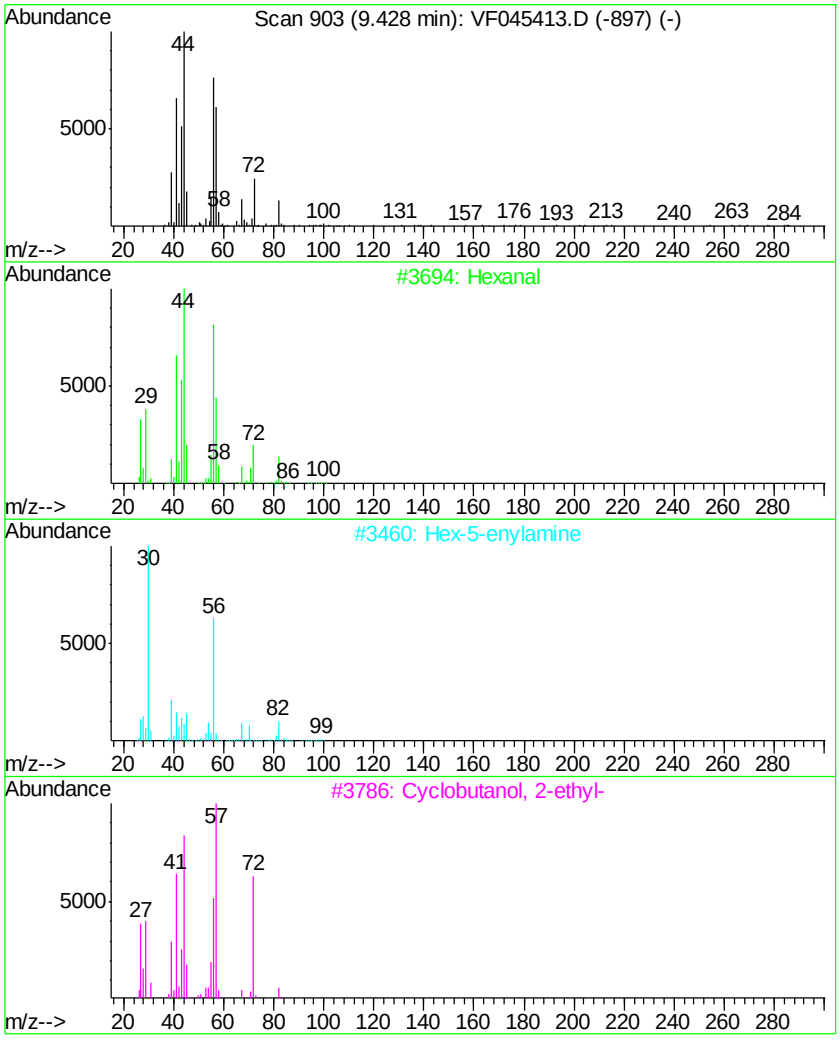
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

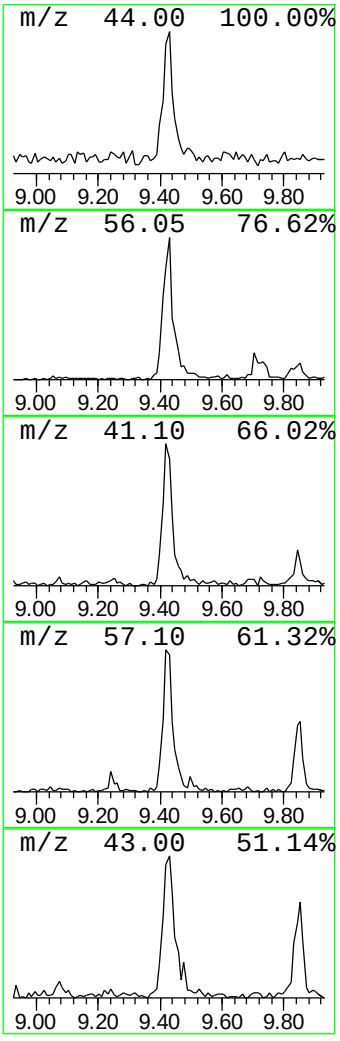
**********

Peak Number 1 Hexanal Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.43 | 5.32 ug/l | 427282 | Chlorobenzene-d5 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 2 | Hex-5-enylamine | 99 | C6H13N | 034825-70-2 | 43 |
| 3 | Cyclobutanol, 2-ethyl- | 100 | C6H12O | 035301-43-0 | 42 |
| 4 | 2,2-Dimethyl-3-hydroxypropionald... | 102 | C5H10O2 | 000597-31-9 | 25 |
| 5 | Pentanal, 3-methyl- | 100 | C6H12O | 015877-57-3 | 23 |



Data Path : W:\HPCHEM1\MSVOA_F\DATA\VF091715\
Data File : VF045413.D
Acq On : 17 Sep 2015 18:23
Operator : FY/SY
Sample : G3708-02
Misc : 12.20g/5mL/MSVOA_F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Quant Title : SW846 8260

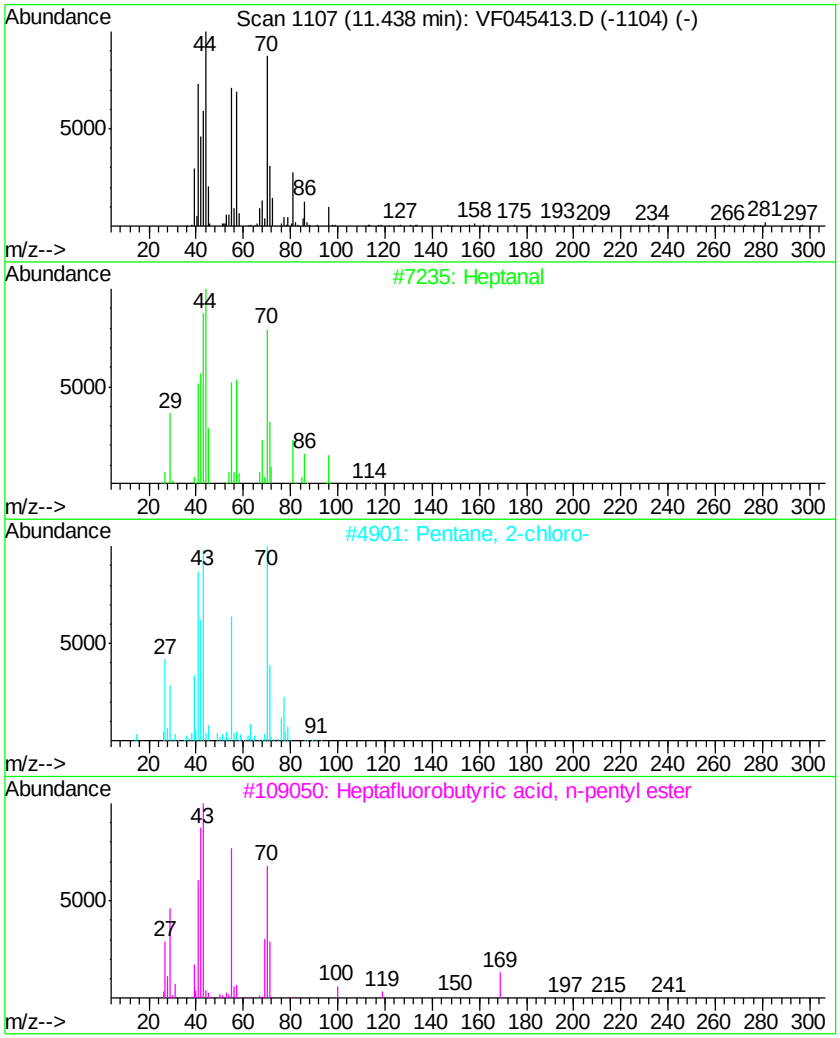
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

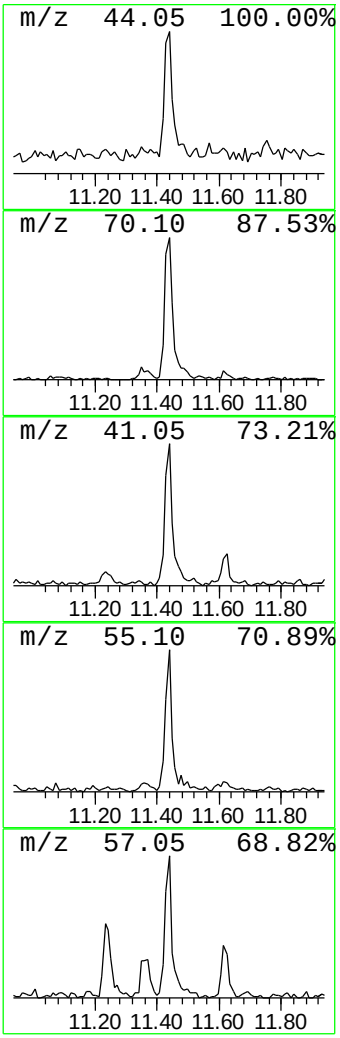
**********

Peak Number 2 Heptanal Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.44 | 7.80 ug/l | 563474 | 1,4-Dichlorobenzene-d4 | 12.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 83 |
| 2 | Pentane, 2-chloro- | 106 | C5H11Cl | 000625-29-6 | 38 |
| 3 | Heptafluorobutyric acid, n-pentyl... | 284 | C9H11F7O2 | 000425-26-3 | 38 |
| 4 | 1-Butanol, 2-methyl-, (.+/-.)- | 88 | C5H12O | 034713-94-5 | 32 |
| 5 | 1-(2-Methylallyl)azetidine | 111 | C7H13N | 1000194-99-1 | 25 |



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Acq On : 17 Sep 2015 18:23
Operator : FY/SY
Sample : G3708-02
Misc : 12.20g/5mL/MSVOA_F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Quant Title : SW846 8260

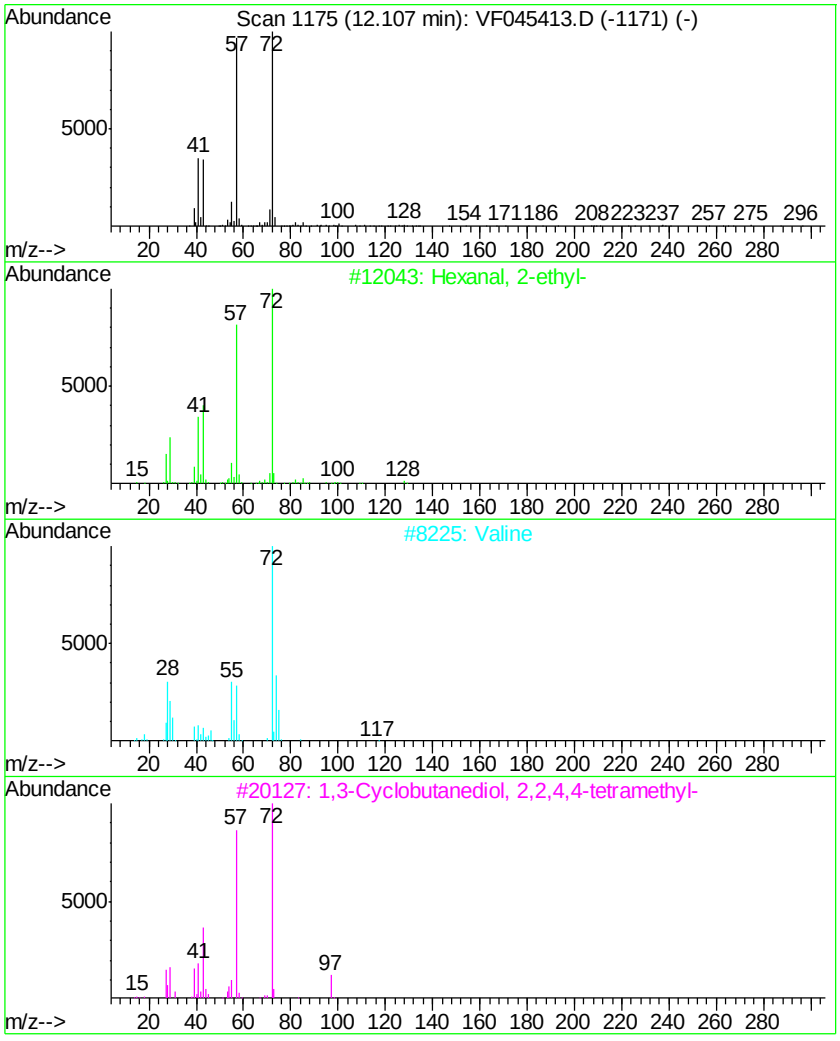
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

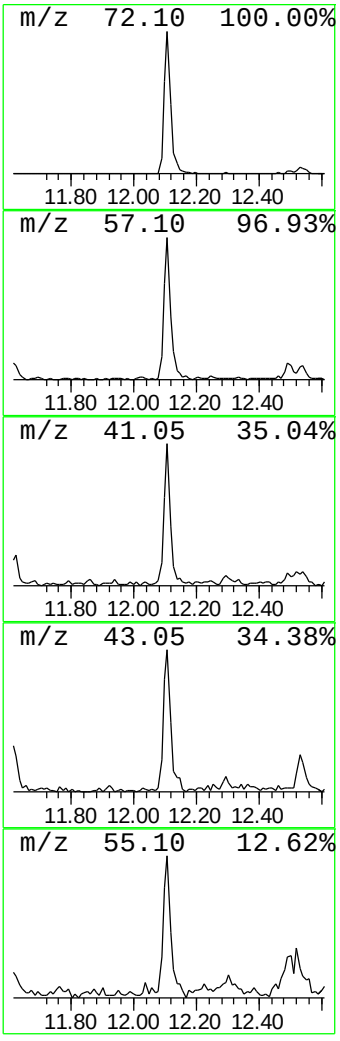
**********

Peak Number 3 Hexanal, 2-ethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.11 | 5.25 ug/l | 379257 | 1,4-Dichlorobenzene-d4 | 12.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal, 2-ethyl- | 128 | C8H16O | 000123-05-7 | 74 |
| 2 | Valine | 117 | C5H11NO2 | 000072-18-4 | 53 |
| 3 | 1,3-Cyclobutanediol, 2,2,4,4-tet... | 144 | C8H16O2 | 003010-96-6 | 50 |
| 4 | 2-Propenoic acid | 72 | C3H4O2 | 000079-10-7 | 42 |
| 5 | 6-Chloro-4-methyl-2-oxo-2H-chrom... | 281 | C13H12ClNO4 | 283170-70-7 | 40 |



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Acq On : 17 Sep 2015 18:23
Operator : FY/SY
Sample : G3708-02
Misc : 12.20g/5mL/MSVOA_F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** MGP2090BR-15-17

Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
Quant Title : SW846 8260

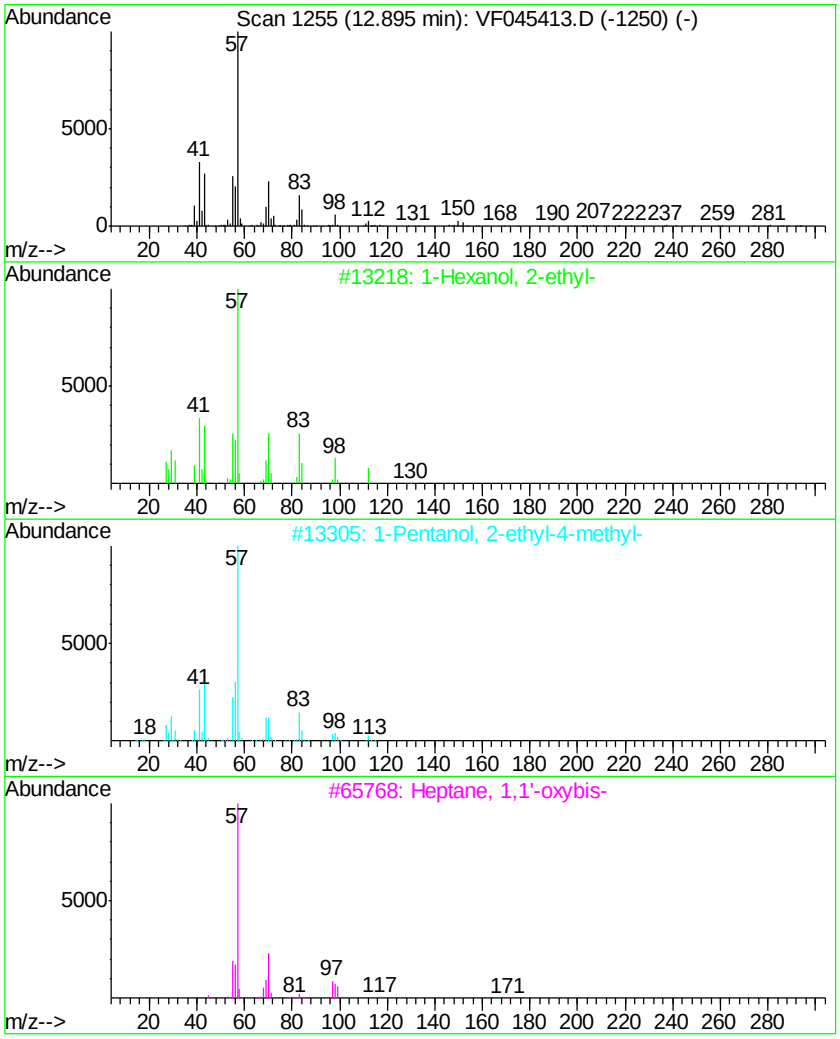
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

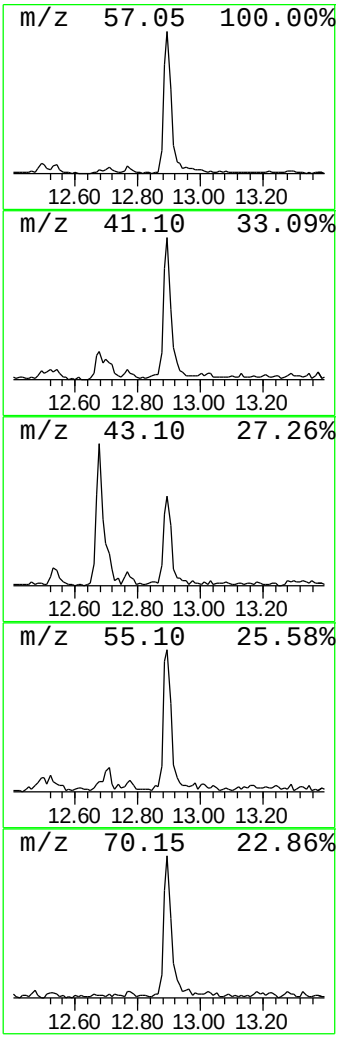
**********

Peak Number 4 1-Hexanol, 2-ethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.90 | 9.58 ug/l | 692470 | 1,4-Dichlorobenzene-d4 | 12.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 78 |
| 2 | 1-Pentanol, 2-ethyl-4-methyl- | 130 | C8H18O | 000106-67-2 | 59 |
| 3 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 59 |
| 4 | 1-Decene, 3,4-dimethyl- | 168 | C12H24 | 050871-03-9 | 56 |
| 5 | 1-Isobutoxy-2-ethylhexane | 186 | C12H26O | 1000139-90-3 | 56 |



Tentatively Identified Compound (LSC) summary

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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Hexanal | 9.43 | 5.3 | ug/l | 427282 | 3 | 9.71 | 4013300 | 50.0 |
| Heptanal | 11.44 | 7.8 | ug/l | 563474 | 4 | 12.50 | 3613210 | 50.0 |
| Hexanal, 2-ethyl- | 12.11 | 5.3 | ug/l | 379257 | 4 | 12.50 | 3613210 | 50.0 |
| 1-Hexanol, 2-ethyl- | 12.90 | 9.6 | ug/l | 692470 | 4 | 12.50 | 3613210 | 50.0 |