LSC Area Percent Report

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
Operator : FY/SY
Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

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_D\METHOD\82D091815S.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 | 1.236 | 69 | 72 | 73 | rBV | 14870 | 15675 | 2.05% | 0.192% |
| 2 | 1.275 | 73 | 76 | 85 | rVV | 372576 | 691325 | 90.32% | 8.467% |
| 3 | 1.384 | 85 | 87 | 94 | rVB6 | 5386 | 14455 | 1.89% | 0.177% |
| 4 | 1.581 | 104 | 107 | 109 | rBV3 | 3774 | 7706 | 1.01% | 0.094% |
| 5 | 1.650 | 111 | 114 | 118 | rVV2 | 16400 | 26058 | 3.40% | 0.319% |
| 6 | 1.778 | 122 | 127 | 131 | rVV | 3270 | 9898 | 1.29% | 0.121% |
| 7 | 1.867 | 134 | 136 | 142 | rBV6 | 5289 | 14699 | 1.92% | 0.180% |
| 8 | 2.941 | 240 | 245 | 249 | rBV | 5148 | 9274 | 1.21% | 0.114% |
| 9 | 3.493 | 297 | 301 | 308 | rVB | 15423 | 34493 | 4.51% | 0.422% |
| 10 | 5.386 | 489 | 493 | 500 | rBV2 | 7213 | 22757 | 2.97% | 0.279% |
| 11 | 6.194 | 568 | 575 | 580 | rBV | 132224 | 332943 | 43.50% | 4.078% |
| 12 | 6.292 | 580 | 585 | 595 | rVB | 225084 | 526069 | 68.73% | 6.443% |
| 13 | 6.697 | 614 | 626 | 634 | rBV2 | 103903 | 301356 | 39.37% | 3.691% |
| 14 | 7.416 | 693 | 699 | 707 | rBV | 287798 | 633525 | 82.77% | 7.759% |
| 15 | 8.678 | 826 | 827 | 829 | rBV | 14854 | 9834 | 1.28% | 0.120% |
| 16 | 9.605 | 915 | 921 | 927 | rBV | 356848 | 765448 | 100.00% | 9.375% |
| 17 | 11.566 | 1115 | 1120 | 1132 | rVV | 414564 | 754098 | 98.52% | 9.236% |
| 18 | 11.714 | 1132 | 1135 | 1140 | rVB2 | 5340 | 10193 | 1.33% | 0.125% |
| 19 | 11.882 | 1147 | 1152 | 1156 | rVB2 | 8972 | 18165 | 2.37% | 0.222% |
| 20 | 12.276 | 1189 | 1192 | 1199 | rVB2 | 8931 | 16593 | 2.17% | 0.203% |
| 21 | 12.660 | 1224 | 1231 | 1235 | rBV2 | 7207 | 13645 | 1.78% | 0.167% |
| 22 | 12.838 | 1245 | 1249 | 1254 | rBV | 345003 | 535992 | 70.02% | 6.564% |
| 23 | 12.936 | 1256 | 1259 | 1263 | rVB2 | 8434 | 14208 | 1.86% | 0.174% |
| 24 | 13.064 | 1269 | 1272 | 1276 | rVB | 11199 | 19900 | 2.60% | 0.244% |
| 25 | 13.262 | 1288 | 1292 | 1297 | rVB5 | 10525 | 20063 | 2.62% | 0.246% |
| 26 | 13.409 | 1304 | 1307 | 1312 | rVB2 | 5051 | 9986 | 1.30% | 0.122% |
| 27 | 13.587 | 1321 | 1325 | 1330 | rVV | 141053 | 226244 | 29.56% | 2.771% |
| 28 | 13.725 | 1335 | 1339 | 1342 | rBV2 | 9346 | 19653 | 2.57% | 0.241% |
| 29 | 13.902 | 1353 | 1357 | 1367 | rBV | 411779 | 727877 | 95.09% | 8.915% |
| 30 | 14.021 | 1367 | 1369 | 1374 | rVB4 | 7183 | 12233 | 1.60% | 0.150% |
| 31 | 14.119 | 1374 | 1379 | 1383 | rBV2 | 31479 | 61303 | 8.01% | 0.751% |
| 32 | 14.218 | 1383 | 1389 | 1393 | rBV5 | 13956 | 51014 | 6.66% | 0.625% |
| 33 | 14.316 | 1397 | 1399 | 1402 | rBV3 | 4184 | 7934 | 1.04% | 0.097% |
| 34 | 14.405 | 1405 | 1408 | 1410 | rBV | 24701 | 43315 | 5.66% | 0.530% |

LSC Area Percent Report

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Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
Operator : FY/SY
Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

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_D\METHOD\82D091815S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.435 | 1410 | 1411 | 1415 | rVV | 33034 | 48267 | 6.31% | 0.591% |
| 36 | 14.494 | 1415 | 1417 | 1420 | rVB | 48007 | 71467 | 9.34% | 0.875% |
| 37 | 14.553 | 1420 | 1423 | 1425 | rVB2 | 11753 | 15449 | 2.02% | 0.189% |
| 38 | 14.602 | 1425 | 1428 | 1432 | rVB2 | 37914 | 66189 | 8.65% | 0.811% |
| 39 | 14.691 | 1433 | 1437 | 1439 | rBV4 | 7037 | 11841 | 1.55% | 0.145% |
| 40 | 14.740 | 1439 | 1442 | 1443 | rBV2 | 8744 | 12814 | 1.67% | 0.157% |
| 41 | 14.819 | 1448 | 1450 | 1452 | rBV | 27922 | 32758 | 4.28% | 0.401% |
| 42 | 14.858 | 1452 | 1454 | 1457 | rVB | 66578 | 97623 | 12.75% | 1.196% |
| 43 | 14.918 | 1457 | 1460 | 1465 | rVB4 | 18794 | 48131 | 6.29% | 0.589% |
| 44 | 14.987 | 1465 | 1467 | 1469 | rBV | 7839 | 10460 | 1.37% | 0.128% |
| 45 | 15.046 | 1469 | 1473 | 1475 | rVB4 | 8165 | 16212 | 2.12% | 0.199% |
| 46 | 15.095 | 1475 | 1478 | 1481 | rBV | 26191 | 54219 | 7.08% | 0.664% |
| 47 | 15.154 | 1481 | 1484 | 1486 | rVB2 | 23240 | 38205 | 4.99% | 0.468% |
| 48 | 15.213 | 1486 | 1490 | 1494 | rBV2 | 92974 | 195529 | 25.54% | 2.395% |
| 49 | 15.282 | 1494 | 1497 | 1501 | rVB3 | 50594 | 90409 | 11.81% | 1.107% |
| 50 | 15.381 | 1501 | 1507 | 1510 | rBV4 | 23495 | 58452 | 7.64% | 0.716% |
| 51 | 15.499 | 1513 | 1519 | 1521 | rBV2 | 45868 | 111611 | 14.58% | 1.367% |
| 52 | 15.617 | 1527 | 1531 | 1534 | rBV4 | 48208 | 100363 | 13.11% | 1.229% |
| 53 | 15.716 | 1539 | 1541 | 1544 | rVB4 | 19314 | 30302 | 3.96% | 0.371% |
| 54 | 15.785 | 1544 | 1548 | 1553 | rBV3 | 57716 | 124288 | 16.24% | 1.522% |
| 55 | 15.874 | 1553 | 1557 | 1560 | rBV2 | 18408 | 42266 | 5.52% | 0.518% |
| 56 | 15.933 | 1560 | 1563 | 1565 | rBV3 | 19917 | 41322 | 5.40% | 0.506% |
| 57 | 16.120 | 1578 | 1582 | 1587 | rBV5 | 43285 | 120293 | 15.72% | 1.473% |
| 58 | 16.199 | 1587 | 1590 | 1593 | rVV4 | 22822 | 47437 | 6.20% | 0.581% |
| 59 | 16.288 | 1594 | 1599 | 1602 | rVV3 | 27964 | 83221 | 10.87% | 1.019% |
| 60 | 16.337 | 1602 | 1604 | 1608 | rVV3 | 28745 | 53561 | 7.00% | 0.656% |
| 61 | 16.426 | 1609 | 1613 | 1616 | rVV5 | 14139 | 30131 | 3.94% | 0.369% |
| 62 | 16.505 | 1616 | 1621 | 1626 | rBV5 | 20854 | 66822 | 8.73% | 0.818% |
| 63 | 16.652 | 1631 | 1636 | 1640 | rBV2 | 37879 | 110079 | 14.38% | 1.348% |
| 64 | 16.771 | 1644 | 1648 | 1652 | rVB2 | 42288 | 75999 | 9.93% | 0.931% |
| 65 | 16.869 | 1653 | 1658 | 1662 | rBV3 | 28876 | 67442 | 8.81% | 0.826% |
| 66 | 16.928 | 1662 | 1664 | 1666 | rBV2 | 11251 | 21494 | 2.81% | 0.263% |
| 67 | 17.135 | 1679 | 1685 | 1694 | rBV2 | 57809 | 192446 | 25.14% | 2.357% |

Sum of corrected areas: 8165033

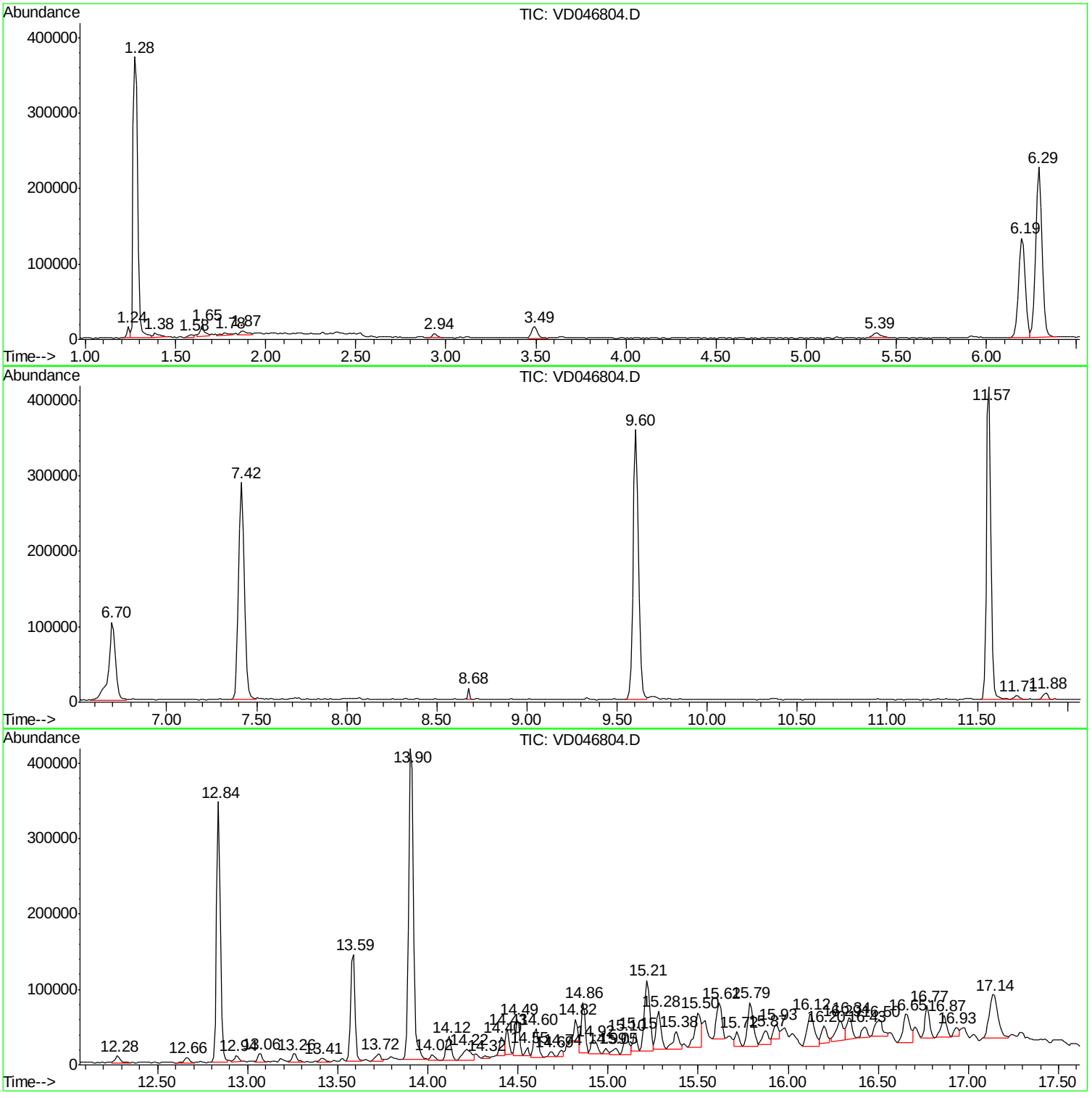
LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092115\
Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
Operator : FY/SY
Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260

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



Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092115\
Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
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Sample : G3747-01
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**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260

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

**********

Peak Number 1 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.86 | 6.71 ug/l | 97623 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 90 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 90 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 90 |
| 4 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 90 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 90 |

**********

Peak Number 2 Benzene, 1-methyl-4-(2-prop... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.21 | 13.43 ug/l | 195529 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 90 |
| 2 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 87 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 87 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 50 |
| 5 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 50 |

**********

Peak Number 3 unknown15.28 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.28 | 6.21 ug/l | 90409 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 46 |
| 2 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 43 |
| 3 | Bis[3,4-dimethylbenzyl]sulfone | 302 | C18H22O2S | 034277-83-3 | 38 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 38 |
| 5 | o-Toluylic acid, tridec-2-ynyl e... | 314 | C21H30O2 | 1000292-51-7 | 38 |

**********

Peak Number 4 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092115\
Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
Operator : FY/SY
Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260

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

| | | | | |
|---|---|---|---|---|
| 15.50 | 7.67 ug/l | 111611 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 87 |
| 2 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 55 |
| 3 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 55 |
| 4 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 55 |
| 5 | .alpha.,.beta.,.beta.-Trimethyls... | 146 | C11H14 | 000769-57-3 | 55 |

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Peak Number 5 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.62 | 6.89 ug/l | 100363 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 70 |
| 2 | 1H-Indene,2,3-dihydro-2,2-dimethyl- | 146 | C11H14 | 020836-11-7 | 64 |
| 3 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 64 |
| 4 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 62 |
| 5 | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14 | 001075-22-5 | 58 |

**********

Peak Number 6 1H-Indene, 2,3-dihydro-4,6-... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.12 | 8.26 ug/l | 120293 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,6-dimet... | 146 | C11H14 | 001685-82-1 | 93 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 93 |
| 3 | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14 | 001075-22-5 | 91 |
| 4 | .alpha.,.beta.,.beta.-Trimethyls... | 146 | C11H14 | 000769-57-3 | 91 |
| 5 | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14 | 052161-57-6 | 90 |

**********

Peak Number 7 unknown16.65 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.65 | 7.56 ug/l | 110079 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

Library Search Compound Report

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD092115\
Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
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Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260

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

| | | | | | |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3,5-trimethyl-2-(1-me... | 160 | C12H16 | 014679-13-1 | 45 |
| 2 | 2-Propenal, 3-(4-methylphenyl)- | 146 | C10H10O | 001504-75-2 | 43 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 001076-61-5 | 43 |
| 4 | Benzonitrile, 4-(dimethylamino)- | 146 | C9H10N2 | 001197-19-9 | 38 |
| 5 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 38 |

**********

Peak Number 8 1H-Indene, 1-ethylidene- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.14 | 13.22 ug/l | 192446 | 1,4-Dichlorobenzene-d4 | 13.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 95 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 93 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 89 |
| 4 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 76 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 76 |

Tentatively Identified Compound (LSC) summary

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Data File : VD046804.D
Acq On : 21 Sep 2015 13:56
Operator : FY/SY
Sample : G3747-01
Misc : 6.21gm/5mL/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** TRENCH-1-1

Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
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 |
| Benzene, 1-ethyl-... | 14.86 | 6.7 | ug/l | 97623 | 4 | 13.91 | 727877 | 50.0 |
| Benzene, 1-methyl... | 15.21 | 13.4 | ug/l | 195529 | 4 | 13.91 | 727877 | 50.0 |
| unknown15.28 | 15.28 | 6.2 | ug/l | 90409 | 4 | 13.91 | 727877 | 50.0 |
| 1H-Indene, 2,3-di... | 15.50 | 7.7 | ug/l | 111611 | 4 | 13.91 | 727877 | 50.0 |
| 1H-Indene, 2,3-di... | 15.62 | 6.9 | ug/l | 100363 | 4 | 13.91 | 727877 | 50.0 |
| 1H-Indene, 2,3-di... | 16.12 | 8.3 | ug/l | 120293 | 4 | 13.91 | 727877 | 50.0 |
| unknown16.65 | 16.65 | 7.6 | ug/l | 110079 | 4 | 13.91 | 727877 | 50.0 |
| 1H-Indene, 1-ethy... | 17.14 | 13.2 | ug/l | 192446 | 4 | 13.91 | 727877 | 50.0 |