LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

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_U\METHOD\82U090619W.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 | 2.431 | 405 | 417 | 437 | rBV | 28048 | 54190 | 2.75% | 0.436% |
| 2 | 2.694 | 488 | 499 | 516 | rVB5 | 9752 | 20701 | 1.05% | 0.166% |
| 3 | 3.974 | 881 | 897 | 915 | rVB4 | 10651 | 29764 | 1.51% | 0.239% |
| 4 | 4.196 | 950 | 966 | 984 | rVB4 | 8013 | 23583 | 1.20% | 0.190% |
| 5 | 4.862 | 1156 | 1173 | 1191 | rBV2 | 276835 | 642439 | 32.64% | 5.164% |
| 6 | 4.961 | 1191 | 1204 | 1222 | rVV | 352098 | 796315 | 40.46% | 6.401% |
| 7 | 5.061 | 1222 | 1235 | 1257 | rVB3 | 69101 | 178907 | 9.09% | 1.438% |
| 8 | 5.289 | 1291 | 1306 | 1329 | rBV | 289765 | 633150 | 32.17% | 5.089% |
| 9 | 5.517 | 1350 | 1377 | 1397 | rVB | 107326 | 269922 | 13.71% | 2.170% |
| 10 | 5.868 | 1470 | 1486 | 1509 | rBV | 481452 | 984352 | 50.01% | 7.912% |
| 11 | 6.373 | 1629 | 1643 | 1660 | rVB2 | 39074 | 79990 | 4.06% | 0.643% |
| 12 | 6.566 | 1693 | 1703 | 1717 | rVB | 11390 | 23388 | 1.19% | 0.188% |
| 13 | 6.720 | 1736 | 1751 | 1764 | rBV2 | 43416 | 89606 | 4.55% | 0.720% |
| 14 | 6.907 | 1790 | 1809 | 1829 | rBV2 | 90925 | 181744 | 9.23% | 1.461% |
| 15 | 7.029 | 1832 | 1847 | 1865 | rVV | 148967 | 303613 | 15.43% | 2.440% |
| 16 | 7.546 | 1984 | 2008 | 2039 | rVV | 1081217 | 1968131 | 100.00% | 15.820% |
| 17 | 7.691 | 2042 | 2053 | 2070 | rVB | 56460 | 112566 | 5.72% | 0.905% |
| 18 | 7.897 | 2105 | 2117 | 2136 | rVB2 | 151255 | 275587 | 14.00% | 2.215% |
| 19 | 8.025 | 2146 | 2157 | 2167 | rVB3 | 14078 | 25761 | 1.31% | 0.207% |
| 20 | 8.469 | 2283 | 2295 | 2314 | rVB3 | 29889 | 56139 | 2.85% | 0.451% |
| 21 | 8.633 | 2324 | 2346 | 2353 | rBV5 | 13514 | 36986 | 1.88% | 0.297% |
| 22 | 8.829 | 2395 | 2407 | 2421 | rBV2 | 21888 | 39379 | 2.00% | 0.317% |
| 23 | 9.070 | 2467 | 2482 | 2508 | rBV | 714642 | 1241781 | 63.09% | 9.982% |
| 24 | 9.225 | 2521 | 2530 | 2542 | rVB6 | 15423 | 27892 | 1.42% | 0.224% |
| 25 | 9.363 | 2557 | 2573 | 2588 | rVB6 | 36577 | 91496 | 4.65% | 0.735% |
| 26 | 9.717 | 2661 | 2683 | 2696 | rBV8 | 25962 | 82654 | 4.20% | 0.664% |
| 27 | 9.900 | 2725 | 2740 | 2746 | rBV7 | 10715 | 25344 | 1.29% | 0.204% |
| 28 | 10.032 | 2770 | 2781 | 2795 | rBV9 | 11979 | 27293 | 1.39% | 0.219% |
| 29 | 10.289 | 2849 | 2861 | 2877 | rBV | 796232 | 1320656 | 67.10% | 10.616% |
| 30 | 10.472 | 2910 | 2918 | 2927 | rVB5 | 21972 | 36819 | 1.87% | 0.296% |
| 31 | 10.588 | 2943 | 2954 | 2966 | rBV5 | 10229 | 23256 | 1.18% | 0.187% |
| 32 | 10.955 | 3055 | 3068 | 3085 | rBV5 | 17907 | 34772 | 1.77% | 0.280% |
| 33 | 11.128 | 3113 | 3122 | 3136 | rBV | 28557 | 47548 | 2.42% | 0.382% |
| 34 | 11.270 | 3148 | 3166 | 3193 | rVB3 | 25970 | 58892 | 2.99% | 0.473% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

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_U\METHOD\82U090619W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.463 | 3214 | 3226 | 3248 | rBV | 931242 | 1547013 | 78.60% | 12.435% |
| 36 | 11.665 | 3280 | 3289 | 3304 | rVB3 | 10806 | 21182 | 1.08% | 0.170% |
| 37 | 11.842 | 3333 | 3344 | 3366 | rVB9 | 17151 | 46335 | 2.35% | 0.372% |
| 38 | 12.209 | 3450 | 3458 | 3468 | rBV5 | 10607 | 20160 | 1.02% | 0.162% |
| 39 | 12.270 | 3469 | 3477 | 3491 | rVB3 | 37190 | 66585 | 3.38% | 0.535% |
| 40 | 12.469 | 3530 | 3539 | 3547 | rBV4 | 14694 | 26620 | 1.35% | 0.214% |
| 41 | 12.520 | 3547 | 3555 | 3571 | rVB5 | 24241 | 46031 | 2.34% | 0.370% |
| 42 | 12.601 | 3572 | 3580 | 3588 | rBV4 | 11131 | 21926 | 1.11% | 0.176% |
| 43 | 12.694 | 3600 | 3609 | 3622 | rVB6 | 9378 | 20254 | 1.03% | 0.163% |
| 44 | 12.771 | 3624 | 3633 | 3644 | rBV2 | 21170 | 32282 | 1.64% | 0.259% |
| 45 | 12.903 | 3663 | 3674 | 3683 | rBV3 | 19676 | 33748 | 1.71% | 0.271% |
| 46 | 12.980 | 3690 | 3698 | 3706 | rVB3 | 17045 | 25143 | 1.28% | 0.202% |
| 47 | 13.102 | 3728 | 3736 | 3746 | rBV3 | 13043 | 21376 | 1.09% | 0.172% |
| 48 | 13.395 | 3817 | 3827 | 3835 | rBV7 | 10199 | 21861 | 1.11% | 0.176% |
| 49 | 13.491 | 3847 | 3857 | 3863 | rBV6 | 14204 | 27598 | 1.40% | 0.222% |
| 50 | 13.536 | 3863 | 3871 | 3872 | rBV2 | 17831 | 19742 | 1.00% | 0.159% |
| 51 | 13.591 | 3884 | 3888 | 3898 | rVB2 | 29501 | 41148 | 2.09% | 0.331% |
| 52 | 13.726 | 3918 | 3930 | 3940 | rBV | 71366 | 146720 | 7.45% | 1.179% |
| 53 | 13.835 | 3958 | 3964 | 3977 | rVB8 | 9539 | 19797 | 1.01% | 0.159% |
| 54 | 13.999 | 4007 | 4015 | 4025 | rBV3 | 16624 | 29997 | 1.52% | 0.241% |
| 55 | 14.321 | 4106 | 4115 | 4130 | rBV9 | 7854 | 20102 | 1.02% | 0.162% |
| 56 | 14.530 | 4170 | 4180 | 4191 | rVB5 | 21353 | 39422 | 2.00% | 0.317% |
| 57 | 14.671 | 4214 | 4224 | 4236 | rBV3 | 18726 | 41034 | 2.08% | 0.330% |
| 58 | 14.864 | 4274 | 4284 | 4292 | rBV | 39556 | 76166 | 3.87% | 0.612% |
| 59 | 15.048 | 4330 | 4341 | 4356 | rBV2 | 87688 | 183823 | 9.34% | 1.478% |

Sum of corrected areas: 12440681

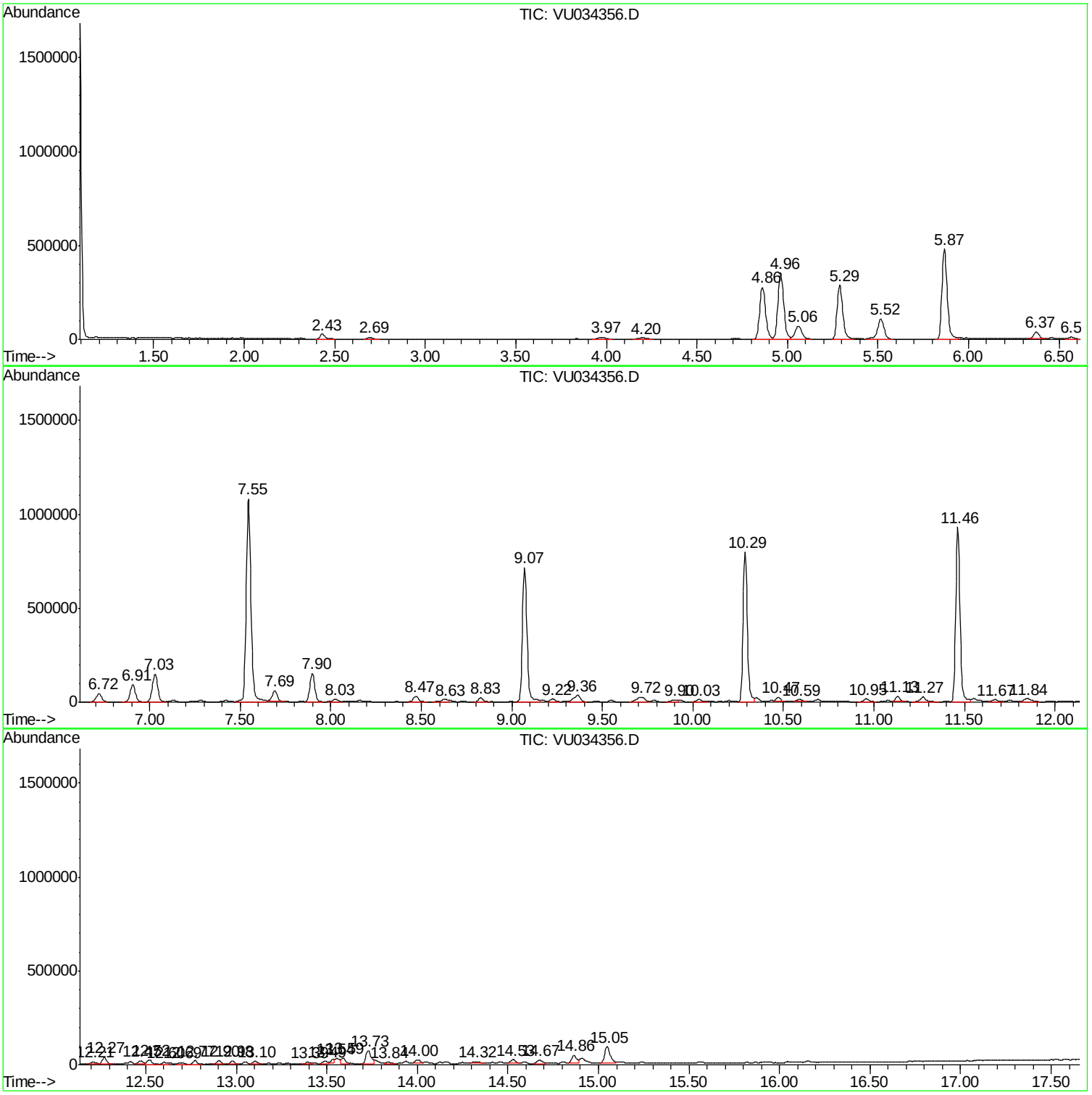
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.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_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

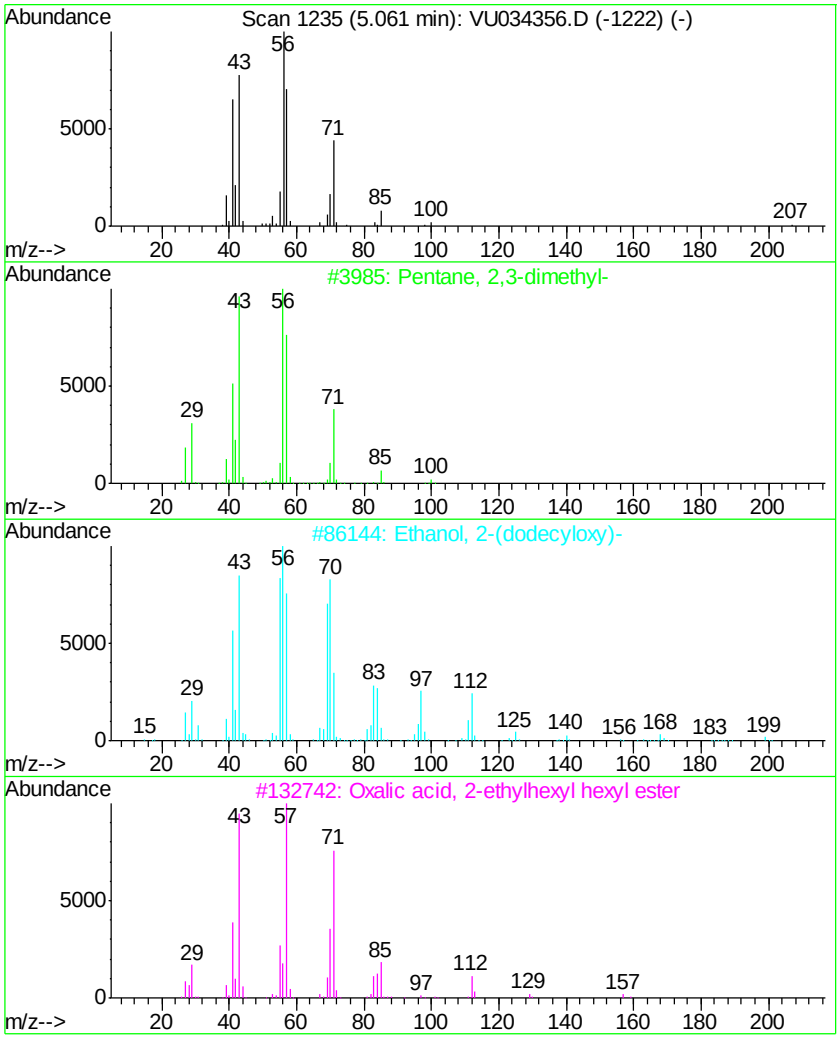
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

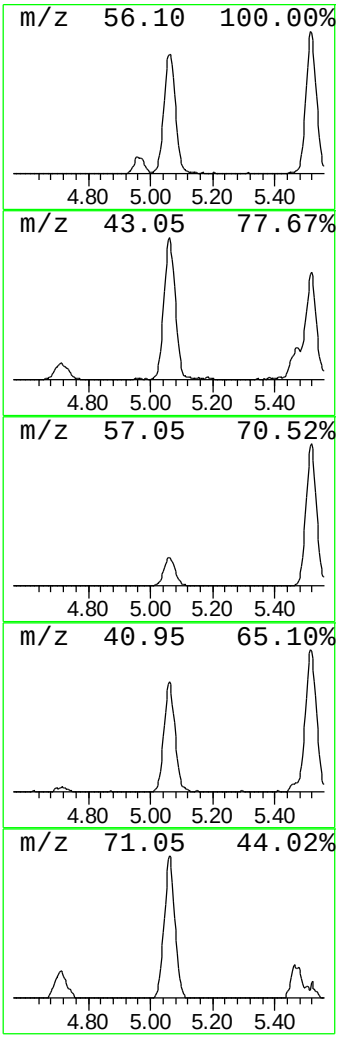
**********

Peak Number 1 Pentane, 2,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.06 | 11.23 ug/l | 178907 | Pentafluorobenzene | 4.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 2 | Ethanol, 2-(dodecyloxy)- | 230 | C14H30O2 | 004536-30-5 | 64 |
| 3 | Oxalic acid, 2-ethylhexyl hexyl ... | 286 | C16H30O4 | 1000309-38-9 | 43 |
| 4 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 42 |
| 5 | Pentane, 3-ethyl-2,2-dimethyl- | 128 | C9H20 | 016747-32-3 | 40 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

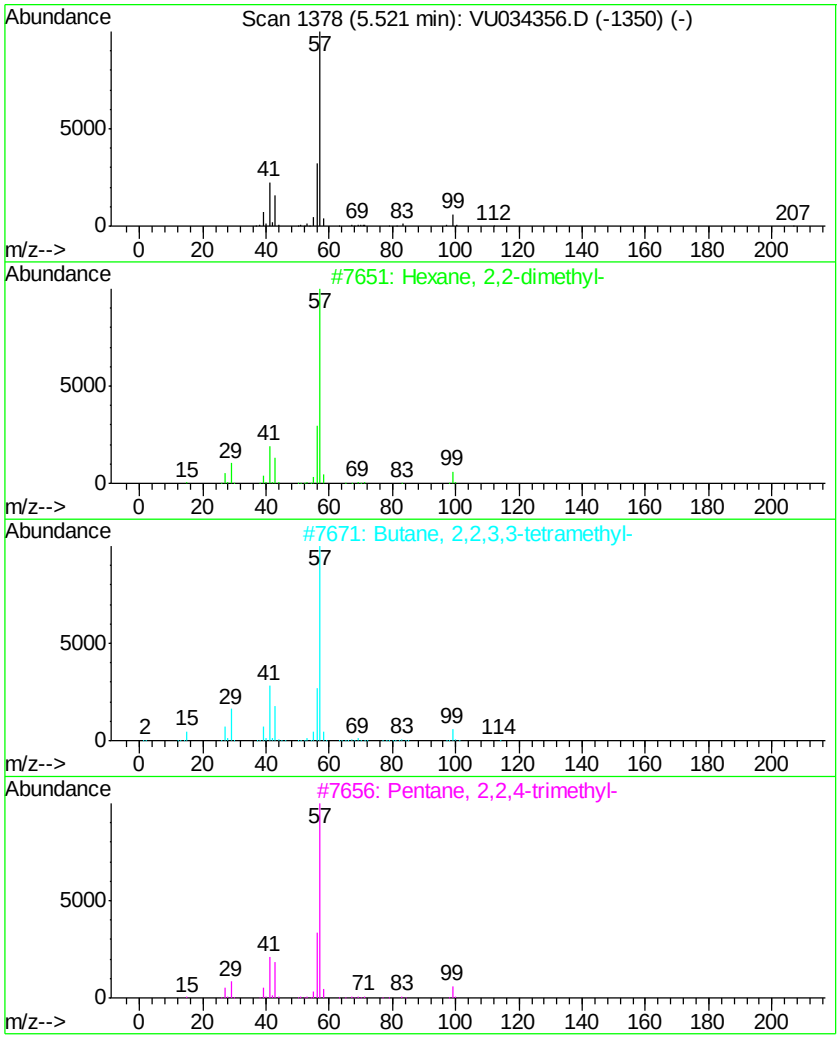
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

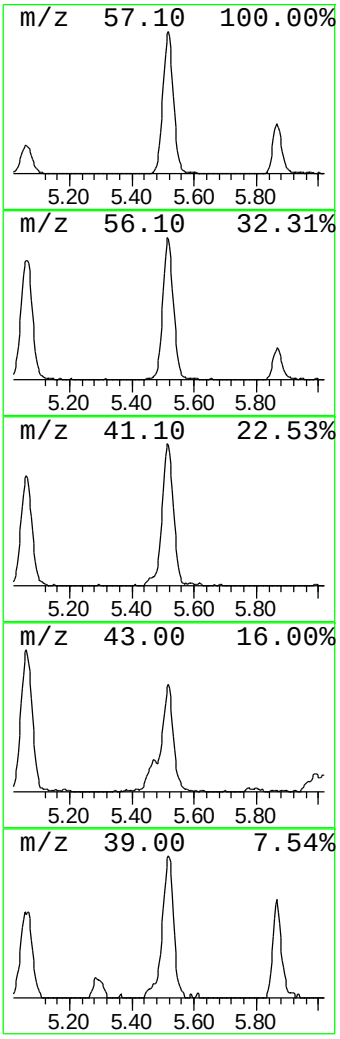
**********

Peak Number 2 Hexane, 2,2-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.52 | 13.71 ug/l | 269922 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 72 |
| 2 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 72 |
| 3 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 72 |
| 4 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 59 |
| 5 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

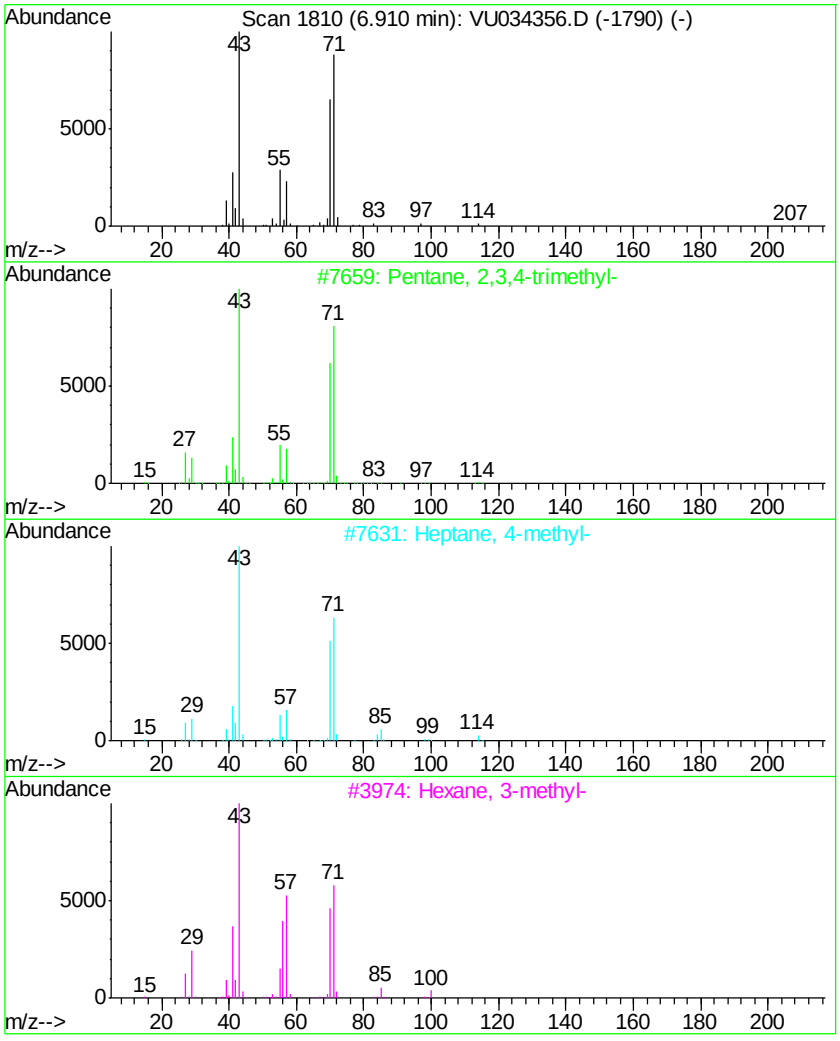
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

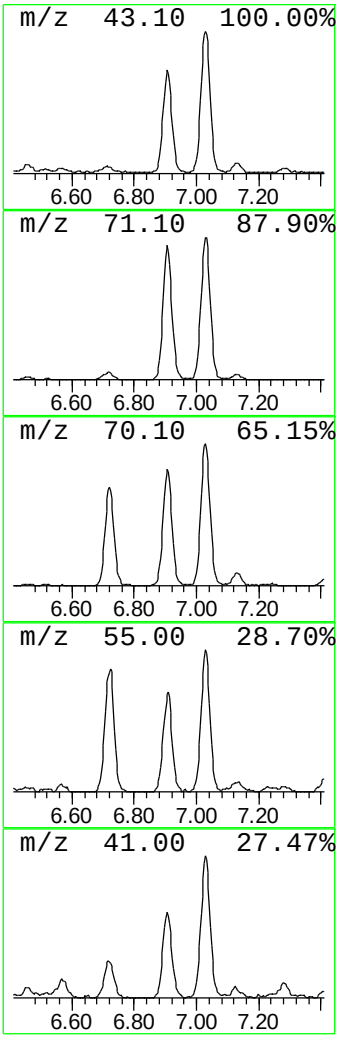
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.91 | 9.23 ug/l | 181744 | 1,4-Difluorobenzene | 5.87 |

| 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 | 78 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 78 |
| 4 | 3,3-Dimethyl-2-pentanol | 116 | C7H16O | 019781-24-9 | 74 |
| 5 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

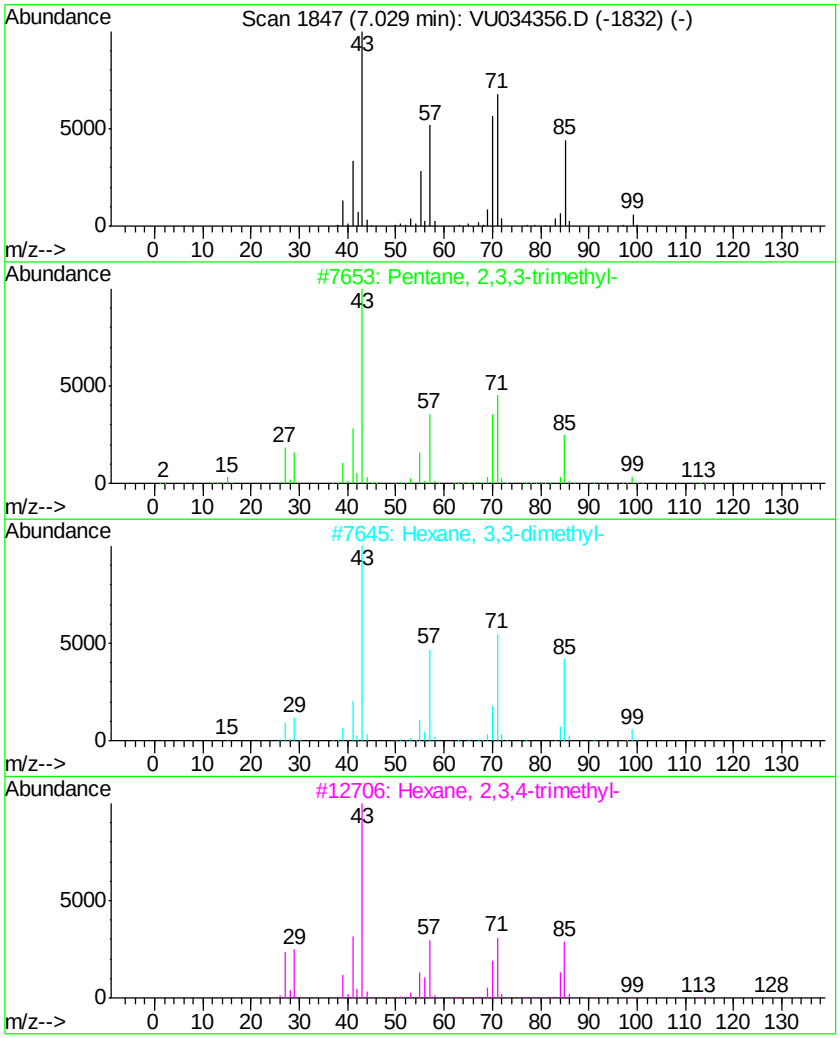
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

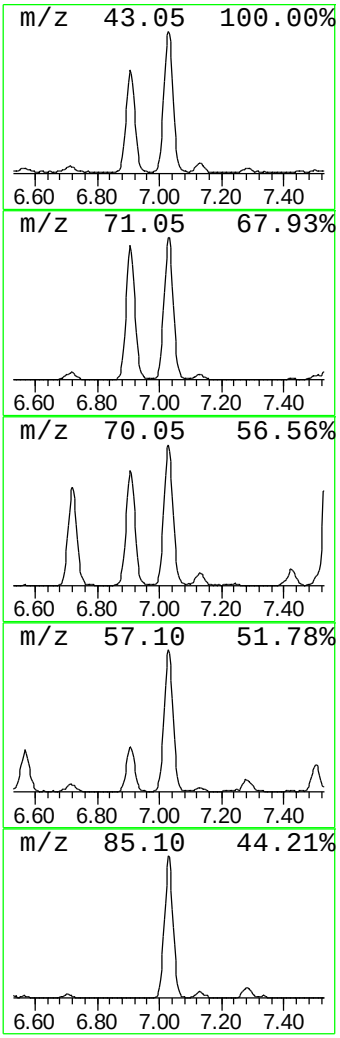
**********

Peak Number 4 Pentane, 2,3,3-trimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.03 | 15.42 ug/l | 303613 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 90 |
| 2 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 64 |
| 3 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 50 |
| 4 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 47 |
| 5 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 42 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

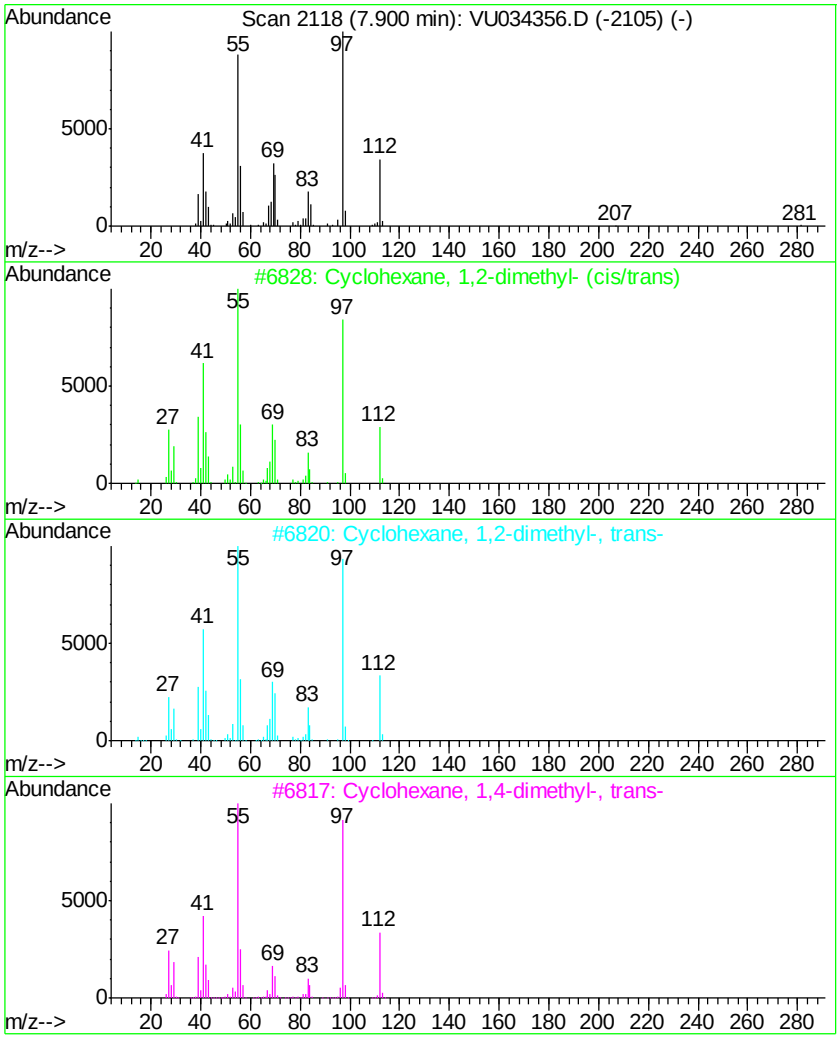
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

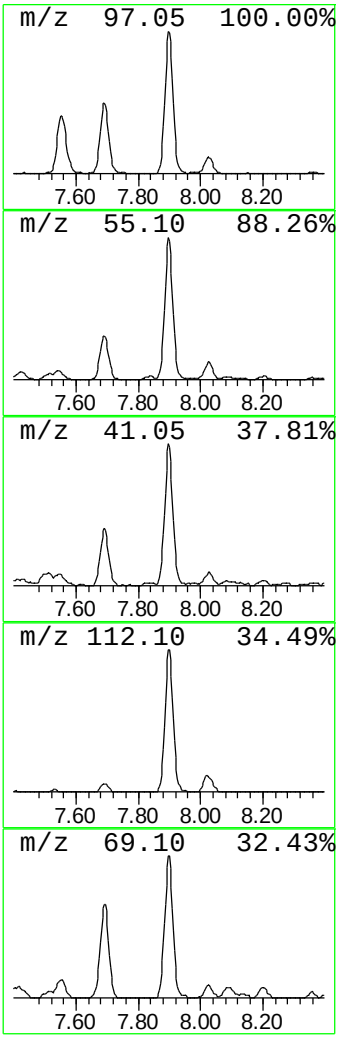
**********

Peak Number 5 Cyclohexane, 1,2-dimethyl- ... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.90 | 11.10 ug/l | 275587 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16 | 000583-57-3 | 96 |
| 2 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 96 |
| 3 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 87 |
| 4 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 87 |
| 5 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 83 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260

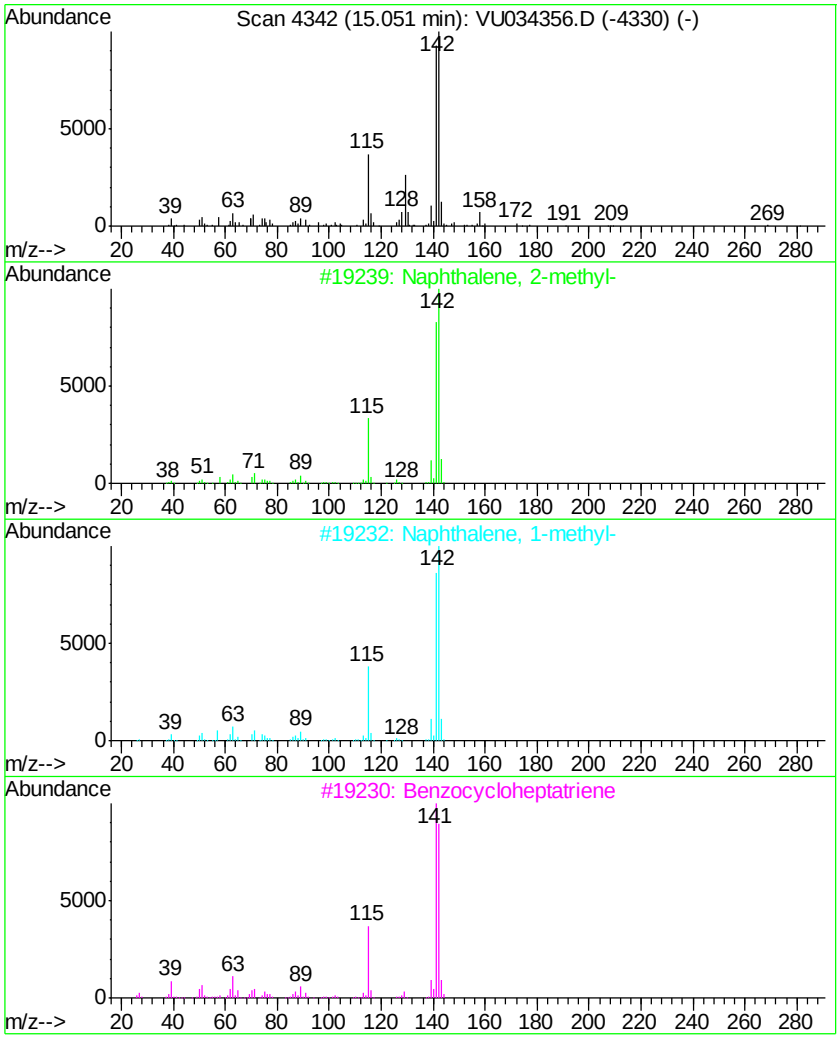
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

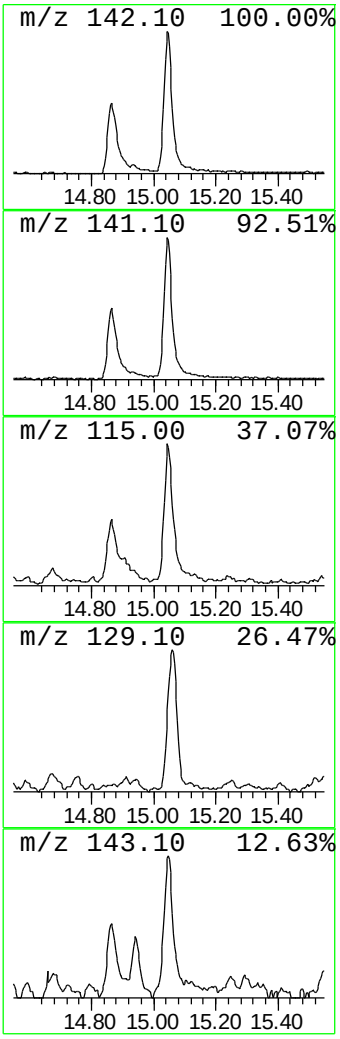
**********

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.05 | 5.94 ug/l | 183823 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 83 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 81 |
| 5 | 1-Naphthaleneacetamide | 185 | C12H11NO | 000086-86-2 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
Data File : VU034356.D
Acq On : 07 Sep 2019 01:50
Operator : JC/SP
Sample : K4725-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** S13-0271

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.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, 2,3-dime... | 5.06 | 11.2 | ug/l | 178907 | 1 | 4.96 | 796315 | 50.0 |
| Hexane, 2,2-dimet... | 5.52 | 13.7 | ug/l | 269922 | 2 | 5.87 | 984352 | 50.0 |
| Pentane, 2,3,4-tr... | 6.91 | 9.2 | ug/l | 181744 | 2 | 5.87 | 984352 | 50.0 |
| Pentane, 2,3,3-tr... | 7.03 | 15.4 | ug/l | 303613 | 2 | 5.87 | 984352 | 50.0 |
| Cyclohexane, 1,2-... | 7.90 | 11.1 | ug/l | 275587 | 3 | 9.07 | 1241780 | 50.0 |
| Naphthalene, 1-me... | 15.05 | 5.9 | ug/l | 183823 | 4 | 11.46 | 1547010 | 50.0 |