LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_V\METHOD\SOM2VLM050719S.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.544 | 136 | 141 | 146 | rBV | 22312 | 23791 | 17.06% | 1.659% |
| 2 | 2.122 | 313 | 321 | 330 | rBV | 17436 | 24335 | 17.45% | 1.697% |
| 3 | 2.531 | 441 | 448 | 457 | rVB4 | 2385 | 3569 | 2.56% | 0.249% |
| 4 | 2.659 | 485 | 488 | 493 | rVB4 | 321 | 276 | 0.20% | 0.019% |
| 5 | 2.884 | 555 | 558 | 559 | rBV | 161 | 102 | 0.07% | 0.007% |
| 6 | 3.065 | 610 | 614 | 618 | rBV3 | 851 | 809 | 0.58% | 0.056% |
| 7 | 3.360 | 699 | 706 | 710 | rBV2 | 274 | 404 | 0.29% | 0.028% |
| 8 | 3.470 | 738 | 740 | 743 | rBV | 252 | 193 | 0.14% | 0.013% |
| 9 | 3.708 | 811 | 814 | 817 | rBV | 296 | 229 | 0.16% | 0.016% |
| 10 | 3.852 | 851 | 859 | 862 | rBV2 | 204 | 280 | 0.20% | 0.020% |
| 11 | 3.868 | 862 | 864 | 865 | rBV2 | 111 | 61 | 0.04% | 0.004% |
| 12 | 3.939 | 876 | 886 | 907 | rBV2 | 9459 | 23896 | 17.14% | 1.667% |
| 13 | 4.064 | 924 | 925 | 928 | rBV2 | 233 | 128 | 0.09% | 0.009% |
| 14 | 4.103 | 934 | 937 | 943 | rVB2 | 359 | 298 | 0.21% | 0.021% |
| 15 | 4.235 | 974 | 978 | 981 | rBV2 | 262 | 237 | 0.17% | 0.017% |
| 16 | 4.286 | 991 | 994 | 999 | rVB2 | 433 | 359 | 0.26% | 0.025% |
| 17 | 4.312 | 999 | 1002 | 1004 | rBV | 284 | 229 | 0.16% | 0.016% |
| 18 | 4.344 | 1010 | 1012 | 1014 | rBV | 251 | 138 | 0.10% | 0.010% |
| 19 | 4.402 | 1014 | 1030 | 1050 | rVV2 | 23882 | 57382 | 41.15% | 4.002% |
| 20 | 4.502 | 1060 | 1061 | 1063 | rBV2 | 136 | 77 | 0.06% | 0.005% |
| 21 | 4.627 | 1097 | 1100 | 1104 | rVB2 | 283 | 237 | 0.17% | 0.017% |
| 22 | 4.650 | 1104 | 1107 | 1110 | rBV | 249 | 183 | 0.13% | 0.013% |
| 23 | 4.746 | 1134 | 1137 | 1144 | rVB | 283 | 280 | 0.20% | 0.020% |
| 24 | 4.781 | 1145 | 1148 | 1153 | rBV2 | 232 | 182 | 0.13% | 0.013% |
| 25 | 4.859 | 1170 | 1172 | 1173 | rBV | 101 | 56 | 0.04% | 0.004% |
| 26 | 4.884 | 1178 | 1180 | 1183 | rBV | 151 | 116 | 0.08% | 0.008% |
| 27 | 4.942 | 1195 | 1198 | 1199 | rBV2 | 126 | 74 | 0.05% | 0.005% |
| 28 | 5.093 | 1229 | 1245 | 1262 | rBV3 | 53132 | 135158 | 96.92% | 9.427% |
| 29 | 5.408 | 1339 | 1343 | 1345 | rBV | 253 | 173 | 0.12% | 0.012% |
| 30 | 5.666 | 1409 | 1423 | 1441 | rBV2 | 44643 | 87620 | 62.83% | 6.111% |
| 31 | 5.852 | 1477 | 1481 | 1485 | rVB | 379 | 338 | 0.24% | 0.024% |
| 32 | 5.894 | 1492 | 1494 | 1502 | rVB2 | 331 | 406 | 0.29% | 0.028% |
| 33 | 5.945 | 1502 | 1510 | 1512 | rBV2 | 983 | 1111 | 0.80% | 0.077% |
| 34 | 6.013 | 1526 | 1531 | 1540 | rVB2 | 292 | 421 | 0.30% | 0.029% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_V\METHOD\SOM2VLM050719S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.048 | 1540 | 1542 | 1545 | rBV | 160 | 69 | 0.05% | 0.005% |
| 36 | 6.119 | 1551 | 1564 | 1584 | rBV | 33915 | 68858 | 49.38% | 4.803% |
| 37 | 6.267 | 1607 | 1610 | 1613 | rVB | 361 | 222 | 0.16% | 0.015% |
| 38 | 6.286 | 1613 | 1616 | 1619 | rBV2 | 282 | 256 | 0.18% | 0.018% |
| 39 | 6.325 | 1625 | 1628 | 1630 | rBV | 265 | 161 | 0.12% | 0.011% |
| 40 | 6.428 | 1657 | 1660 | 1662 | rBV2 | 156 | 125 | 0.09% | 0.009% |
| 41 | 6.524 | 1686 | 1690 | 1691 | rBV2 | 222 | 175 | 0.13% | 0.012% |
| 42 | 6.556 | 1697 | 1700 | 1701 | rBV | 205 | 100 | 0.07% | 0.007% |
| 43 | 6.662 | 1730 | 1733 | 1734 | rBV | 173 | 122 | 0.09% | 0.009% |
| 44 | 6.778 | 1766 | 1769 | 1771 | rBV | 182 | 133 | 0.10% | 0.009% |
| 45 | 6.958 | 1823 | 1825 | 1827 | rBV2 | 107 | 56 | 0.04% | 0.004% |
| 46 | 6.974 | 1827 | 1830 | 1833 | rVV | 328 | 244 | 0.17% | 0.017% |
| 47 | 7.029 | 1836 | 1847 | 1865 | rVV2 | 17606 | 30716 | 22.03% | 2.142% |
| 48 | 7.215 | 1902 | 1905 | 1907 | rBV2 | 237 | 156 | 0.11% | 0.011% |
| 49 | 7.241 | 1911 | 1913 | 1915 | rBV | 182 | 126 | 0.09% | 0.009% |
| 50 | 7.360 | 1937 | 1950 | 1969 | rBV | 55069 | 99641 | 71.45% | 6.950% |
| 51 | 7.666 | 2036 | 2045 | 2056 | rBV3 | 12731 | 20236 | 14.51% | 1.411% |
| 52 | 7.929 | 2122 | 2127 | 2128 | rBV2 | 177 | 189 | 0.14% | 0.013% |
| 53 | 7.997 | 2147 | 2148 | 2149 | rBV2 | 198 | 39 | 0.03% | 0.003% |
| 54 | 8.084 | 2173 | 2175 | 2178 | rVB | 127 | 63 | 0.05% | 0.004% |
| 55 | 8.132 | 2180 | 2190 | 2210 | rBV | 34278 | 58518 | 41.96% | 4.082% |
| 56 | 8.293 | 2237 | 2240 | 2244 | rBV2 | 492 | 334 | 0.24% | 0.023% |
| 57 | 8.399 | 2268 | 2273 | 2275 | rBV2 | 230 | 181 | 0.13% | 0.013% |
| 58 | 8.508 | 2304 | 2307 | 2308 | rBV | 224 | 128 | 0.09% | 0.009% |
| 59 | 8.566 | 2319 | 2325 | 2327 | rBV | 332 | 324 | 0.23% | 0.023% |
| 60 | 8.685 | 2359 | 2362 | 2365 | rBV | 287 | 250 | 0.18% | 0.017% |
| 61 | 8.897 | 2415 | 2428 | 2444 | rBV | 82421 | 138532 | 99.34% | 9.662% |
| 62 | 9.180 | 2512 | 2516 | 2518 | rBV | 557 | 433 | 0.31% | 0.030% |
| 63 | 9.521 | 2618 | 2622 | 2624 | rBV2 | 292 | 216 | 0.15% | 0.015% |
| 64 | 9.727 | 2683 | 2686 | 2689 | rBV | 236 | 151 | 0.11% | 0.011% |
| 65 | 10.045 | 2782 | 2785 | 2788 | rBV | 246 | 166 | 0.12% | 0.012% |
| 66 | 10.260 | 2841 | 2852 | 2869 | rVB | 45836 | 71790 | 51.48% | 5.007% |
| 67 | 10.376 | 2884 | 2888 | 2891 | rBV2 | 257 | 260 | 0.19% | 0.018% |
| 68 | 10.418 | 2898 | 2901 | 2913 | rVB4 | 1164 | 1457 | 1.04% | 0.102% |
| 69 | 10.958 | 3065 | 3069 | 3078 | rVB3 | 687 | 840 | 0.60% | 0.059% |
| 70 | 11.112 | 3114 | 3117 | 3119 | rBV | 210 | 148 | 0.11% | 0.010% |
| 71 | 11.296 | 3163 | 3174 | 3192 | rBV2 | 87996 | 139446 | 100.00% | 9.726% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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_V\METHOD\SOM2VLM050719S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.373 | 3192 | 3198 | 3202 | rBV3 | 525 | 576 | 0.41% | 0.040% |
| 73 | 11.579 | 3259 | 3262 | 3267 | rBV4 | 569 | 636 | 0.46% | 0.044% |
| 74 | 11.672 | 3281 | 3291 | 3307 | rVB | 77833 | 120057 | 86.10% | 8.374% |
| 75 | 11.820 | 3334 | 3337 | 3339 | rBV | 230 | 151 | 0.11% | 0.011% |
| 76 | 11.891 | 3357 | 3359 | 3361 | rBV | 281 | 146 | 0.10% | 0.010% |
| 77 | 11.907 | 3361 | 3364 | 3367 | rBV | 245 | 187 | 0.13% | 0.013% |
| 78 | 12.241 | 3461 | 3468 | 3471 | rBV3 | 544 | 616 | 0.44% | 0.043% |
| 79 | 12.640 | 3589 | 3592 | 3598 | rBV2 | 681 | 602 | 0.43% | 0.042% |
| 80 | 12.997 | 3696 | 3703 | 3710 | rBV4 | 1562 | 2262 | 1.62% | 0.158% |
| 81 | 13.099 | 3728 | 3735 | 3747 | rBV4 | 2884 | 4474 | 3.21% | 0.312% |
| 82 | 13.550 | 3865 | 3875 | 3891 | rBV | 55468 | 84718 | 60.75% | 5.909% |
| 83 | 14.228 | 4082 | 4086 | 4088 | rBV3 | 721 | 602 | 0.43% | 0.042% |
| 84 | 14.469 | 4158 | 4161 | 4165 | rBV2 | 471 | 290 | 0.21% | 0.020% |
| 85 | 14.681 | 4218 | 4227 | 4246 | rVB | 41577 | 62210 | 44.61% | 4.339% |
| 86 | 14.865 | 4274 | 4284 | 4297 | rBV | 42320 | 65262 | 46.80% | 4.552% |
| 87 | 15.415 | 4449 | 4455 | 4463 | rVB2 | 5069 | 6411 | 4.60% | 0.447% |
| 88 | 15.717 | 4542 | 4549 | 4564 | rVB5 | 14189 | 23513 | 16.86% | 1.640% |
| 89 | 15.861 | 4586 | 4594 | 4601 | rBV2 | 24507 | 38090 | 27.32% | 2.657% |
| 90 | 16.328 | 4731 | 4739 | 4756 | rVB4 | 10420 | 20435 | 14.65% | 1.425% |
| 91 | 16.540 | 4798 | 4805 | 4811 | rBV6 | 2664 | 4477 | 3.21% | 0.312% |

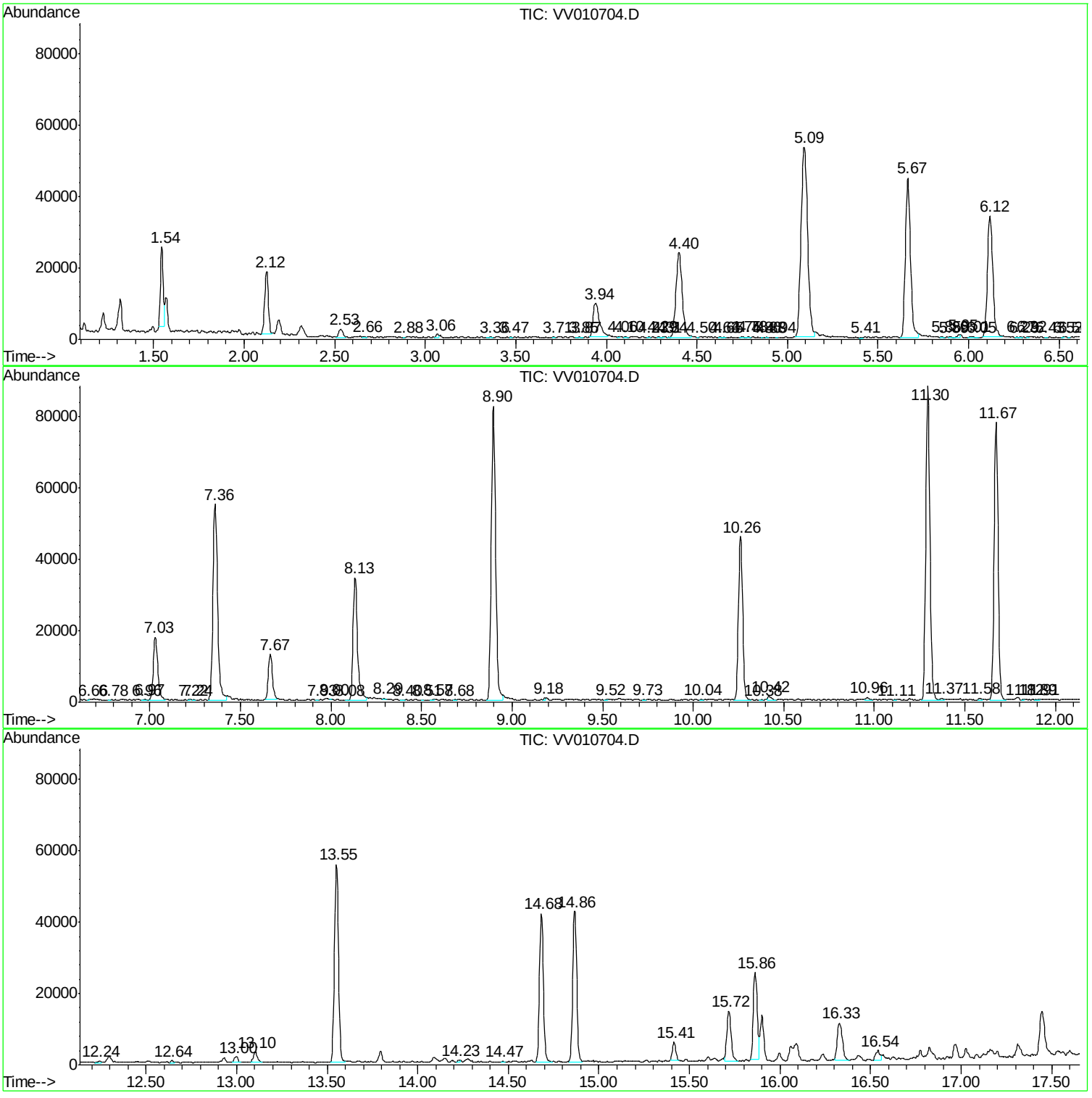
Sum of corrected areas: 1433724

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

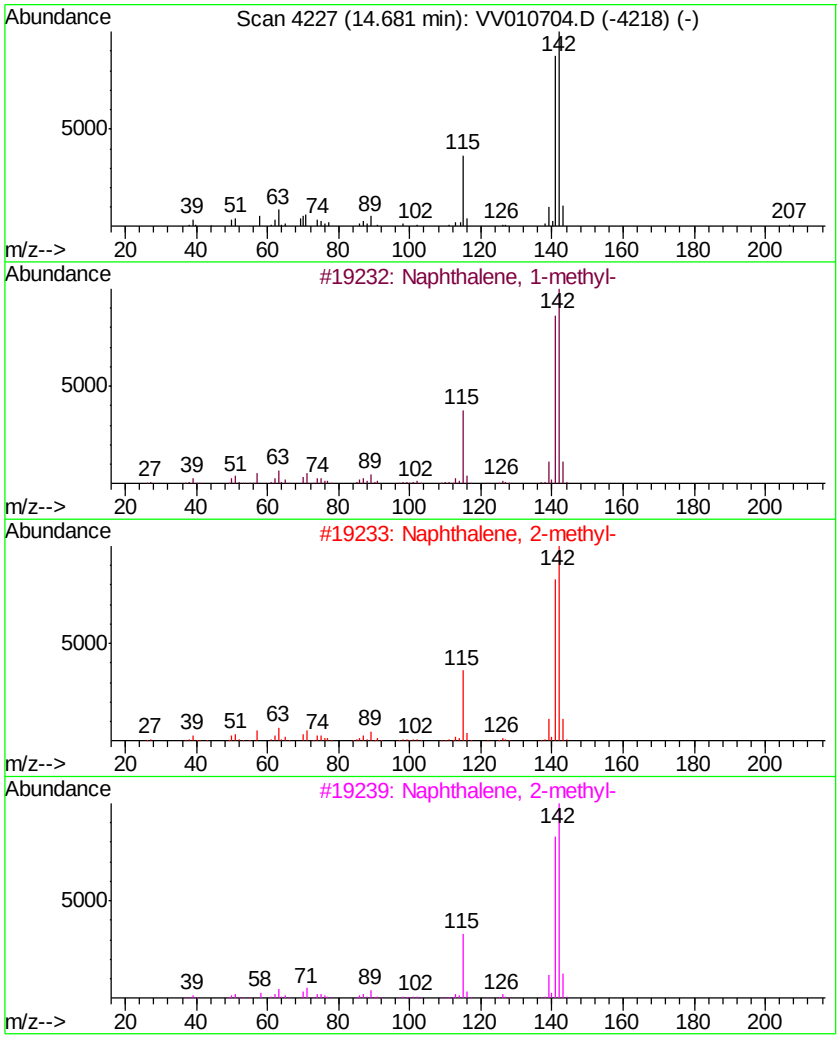
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

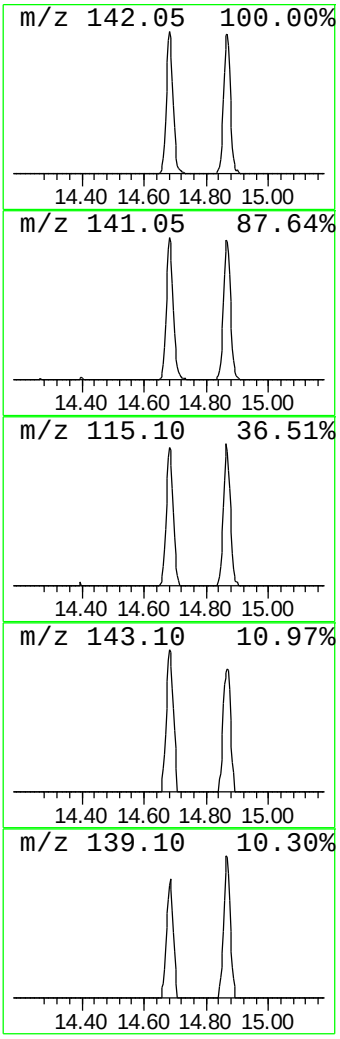
**********

Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.68 | 11.15 ug/L | 62210 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 94 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

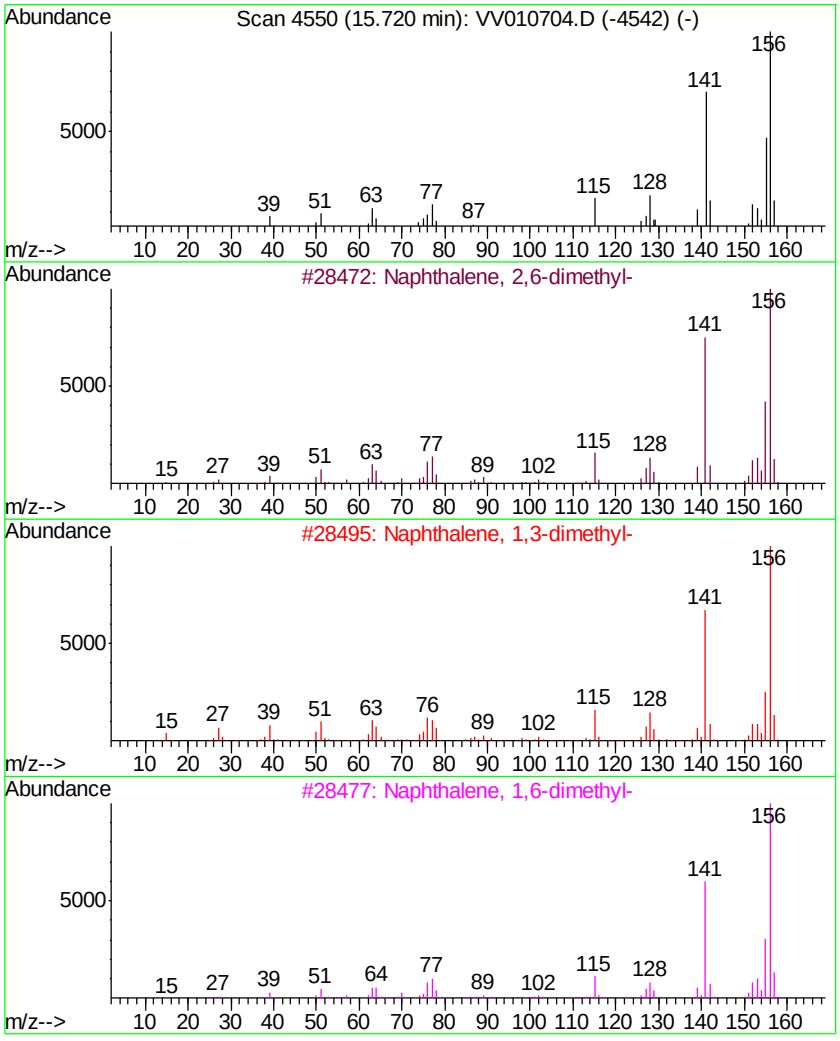
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

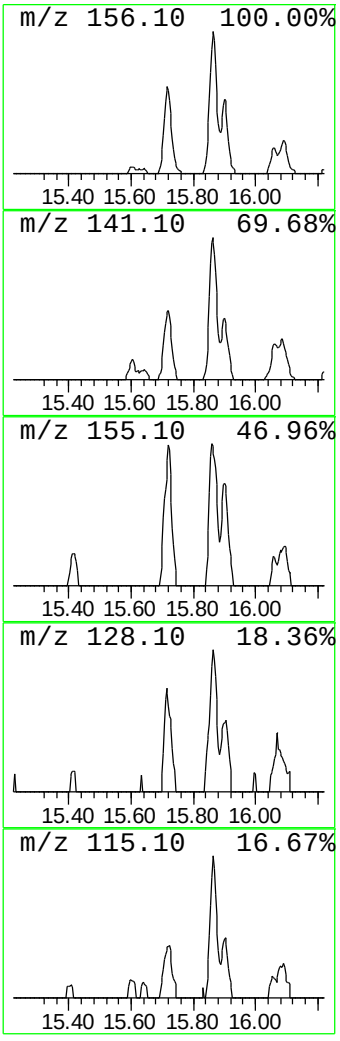
**********

Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.72 | 4.22 ug/L | 23513 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

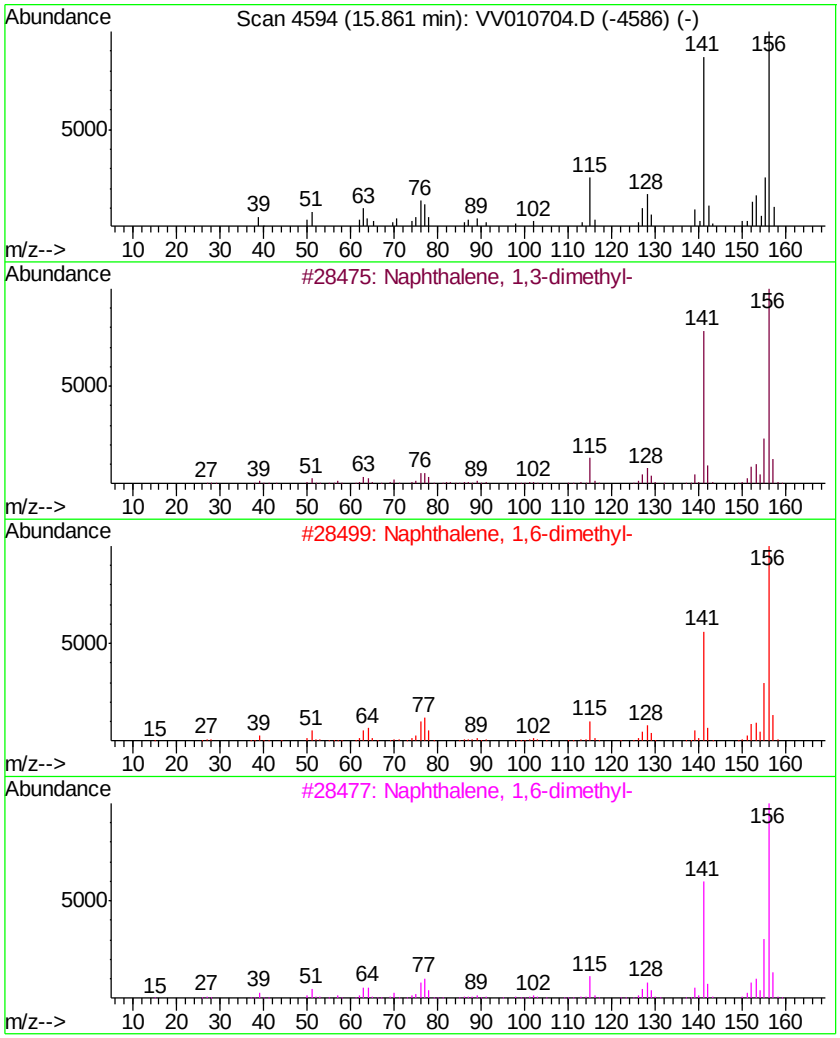
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

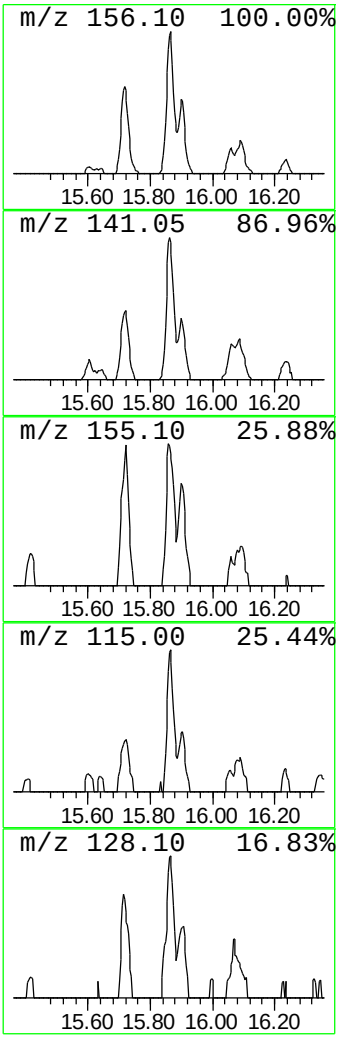
**********

Peak Number 6 Naphthalene, 1,3-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.86 | 6.83 ug/L | 38090 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 96 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

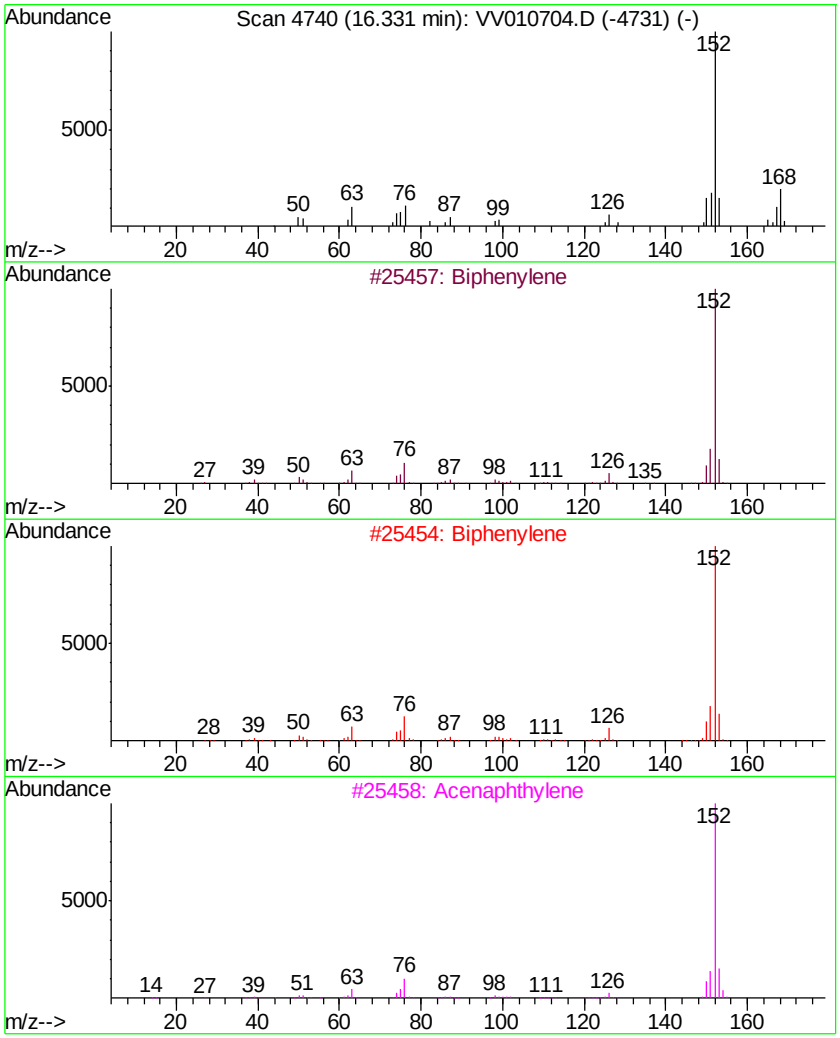
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

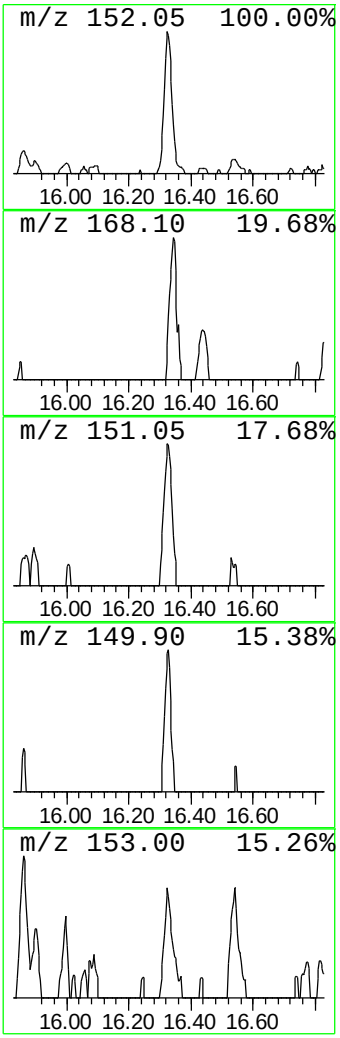
**********

Peak Number 7 Biphenylene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.33 | 3.66 ug/L | 20435 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Biphenylene | 152 | C12H8 | 000259-79-0 | 83 |
| 2 | Biphenylene | 152 | C12H8 | 000259-79-0 | 80 |
| 3 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 72 |
| 4 | Biphenylene | 152 | C12H8 | 000259-79-0 | 64 |
| 5 | 1-acenaphthenol, trifluoroacetat... | 266 | C14H9F3O2 | 1000376-45-2 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV050719\
Data File : VV010704.D
Acq On : 07 May 2019 21:13
Operator : SY/MD
Sample : K2633-12
Misc : 5.09G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** GAJA4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Naphthalene, 1-me... | 14.68 | 11.2 | ug/L | 62210 | 3 | 11.30 | 139446 | 25.0 |
| Naphthalene, 2,6-... | 15.72 | 4.2 | ug/L | 23513 | 3 | 11.30 | 139446 | 25.0 |
| Naphthalene, 1,3-... | 15.86 | 6.8 | ug/L | 38090 | 3 | 11.30 | 139446 | 25.0 |
| Biphenylene | 16.33 | 3.7 | ug/L | 20435 | 3 | 11.30 | 139446 | 25.0 |