LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.073 | 35 | 40 | 49 | rBV | 31484 | 55709 | 9.25% | 0.560% |
| 2 | 3.150 | 49 | 53 | 65 | rVB | 79208 | 111886 | 18.59% | 1.125% |
| 3 | 5.817 | 502 | 507 | 512 | rBV2 | 5555 | 7745 | 1.29% | 0.078% |
| 4 | 5.993 | 533 | 537 | 539 | rBV | 3846 | 5701 | 0.95% | 0.057% |
| 5 | 6.622 | 639 | 644 | 649 | rBV2 | 6237 | 9794 | 1.63% | 0.098% |
| 6 | 6.704 | 651 | 658 | 661 | rBV3 | 4411 | 8889 | 1.48% | 0.089% |
| 7 | 7.162 | 726 | 736 | 742 | rBV3 | 12577 | 24075 | 4.00% | 0.242% |
| 8 | 7.309 | 755 | 761 | 768 | rVB | 43574 | 71940 | 11.95% | 0.723% |
| 9 | 7.386 | 768 | 774 | 779 | rBV3 | 16189 | 26538 | 4.41% | 0.267% |
| 10 | 7.480 | 781 | 790 | 793 | rBV3 | 11689 | 27477 | 4.56% | 0.276% |
| 11 | 7.521 | 793 | 797 | 803 | rVB | 54493 | 85585 | 14.22% | 0.861% |
| 12 | 7.633 | 812 | 816 | 821 | rVB3 | 6215 | 9189 | 1.53% | 0.092% |
| 13 | 7.721 | 825 | 831 | 834 | rBV3 | 6467 | 11248 | 1.87% | 0.113% |
| 14 | 7.803 | 839 | 845 | 853 | rVB3 | 13128 | 23708 | 3.94% | 0.238% |
| 15 | 7.985 | 869 | 876 | 884 | rVV | 54507 | 91976 | 15.28% | 0.925% |
| 16 | 8.161 | 899 | 906 | 911 | rVV3 | 4060 | 6746 | 1.12% | 0.068% |
| 17 | 8.255 | 914 | 922 | 924 | rVV4 | 11035 | 18633 | 3.10% | 0.187% |
| 18 | 8.291 | 924 | 928 | 934 | rVV2 | 28188 | 45233 | 7.51% | 0.455% |
| 19 | 8.373 | 935 | 942 | 952 | rVV6 | 8287 | 23316 | 3.87% | 0.234% |
| 20 | 8.461 | 952 | 957 | 962 | rVV4 | 3936 | 6860 | 1.14% | 0.069% |
| 21 | 8.520 | 962 | 967 | 973 | rVB3 | 6014 | 9569 | 1.59% | 0.096% |
| 22 | 8.631 | 979 | 986 | 992 | rBV | 42003 | 70789 | 11.76% | 0.712% |
| 23 | 8.702 | 992 | 998 | 1004 | rBV | 44748 | 76259 | 12.67% | 0.767% |
| 24 | 8.954 | 1031 | 1041 | 1046 | rBV2 | 18425 | 32151 | 5.34% | 0.323% |
| 25 | 9.007 | 1046 | 1050 | 1054 | rVV5 | 9652 | 16489 | 2.74% | 0.166% |
| 26 | 9.054 | 1054 | 1058 | 1061 | rVV2 | 28058 | 47204 | 7.84% | 0.475% |
| 27 | 9.090 | 1061 | 1064 | 1069 | rVV | 40133 | 70199 | 11.66% | 0.706% |
| 28 | 9.148 | 1069 | 1074 | 1081 | rVB | 69545 | 121700 | 20.22% | 1.224% |
| 29 | 9.260 | 1087 | 1093 | 1098 | rBV5 | 25660 | 50050 | 8.31% | 0.503% |
| 30 | 9.313 | 1098 | 1102 | 1105 | rVV3 | 9354 | 14760 | 2.45% | 0.148% |
| 31 | 9.348 | 1105 | 1108 | 1113 | rVB3 | 18905 | 28080 | 4.66% | 0.282% |
| 32 | 9.413 | 1113 | 1119 | 1125 | rBV2 | 135059 | 234060 | 38.88% | 2.354% |
| 33 | 9.530 | 1133 | 1139 | 1149 | rVB3 | 43781 | 80119 | 13.31% | 0.806% |
| 34 | 9.748 | 1165 | 1176 | 1182 | rVB3 | 24893 | 48602 | 8.07% | 0.489% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.871 | 1190 | 1197 | 1202 | rBV | 78046 | 144271 | 23.97% | 1.451% |
| 36 | 9.977 | 1209 | 1215 | 1219 | rBV3 | 16534 | 34029 | 5.65% | 0.342% |
| 37 | 10.024 | 1220 | 1223 | 1227 | rVV3 | 19025 | 30171 | 5.01% | 0.303% |
| 38 | 10.071 | 1227 | 1231 | 1240 | rVB2 | 31804 | 57239 | 9.51% | 0.576% |
| 39 | 10.153 | 1242 | 1245 | 1249 | rBV3 | 3844 | 6193 | 1.03% | 0.062% |
| 40 | 10.282 | 1263 | 1267 | 1276 | rVB7 | 7647 | 19519 | 3.24% | 0.196% |
| 41 | 10.418 | 1280 | 1290 | 1297 | rBV | 111997 | 217080 | 36.06% | 2.183% |
| 42 | 10.488 | 1297 | 1302 | 1306 | rVB7 | 8659 | 15500 | 2.57% | 0.156% |
| 43 | 10.617 | 1319 | 1324 | 1329 | rBV | 54282 | 100698 | 16.73% | 1.013% |
| 44 | 10.788 | 1340 | 1353 | 1359 | rBV | 89567 | 190379 | 31.63% | 1.915% |
| 45 | 10.841 | 1359 | 1362 | 1367 | rVB4 | 14131 | 22458 | 3.73% | 0.226% |
| 46 | 10.935 | 1372 | 1378 | 1386 | rVB | 109878 | 193593 | 32.16% | 1.947% |
| 47 | 11.040 | 1391 | 1396 | 1400 | rBV5 | 6761 | 13389 | 2.22% | 0.135% |
| 48 | 11.140 | 1406 | 1413 | 1420 | rBV6 | 25194 | 55159 | 9.16% | 0.555% |
| 49 | 11.205 | 1420 | 1424 | 1431 | rVB5 | 12914 | 27143 | 4.51% | 0.273% |
| 50 | 11.269 | 1431 | 1435 | 1438 | rBV5 | 5794 | 7868 | 1.31% | 0.079% |
| 51 | 11.340 | 1439 | 1447 | 1449 | rBV | 30866 | 59351 | 9.86% | 0.597% |
| 52 | 11.381 | 1449 | 1454 | 1460 | rVB2 | 103006 | 176965 | 29.40% | 1.780% |
| 53 | 11.551 | 1479 | 1483 | 1489 | rVB3 | 17640 | 26499 | 4.40% | 0.266% |
| 54 | 11.628 | 1489 | 1496 | 1500 | rBV | 69787 | 122276 | 20.31% | 1.230% |
| 55 | 11.669 | 1500 | 1503 | 1508 | rVB3 | 31410 | 47478 | 7.89% | 0.477% |
| 56 | 11.769 | 1516 | 1520 | 1524 | rVB5 | 5251 | 7806 | 1.30% | 0.079% |
| 57 | 11.910 | 1538 | 1544 | 1552 | rBV | 44378 | 89085 | 14.80% | 0.896% |
| 58 | 11.986 | 1552 | 1557 | 1563 | rBV | 24506 | 42615 | 7.08% | 0.429% |
| 59 | 12.192 | 1587 | 1592 | 1599 | rVB | 26026 | 39534 | 6.57% | 0.398% |
| 60 | 12.398 | 1624 | 1627 | 1630 | rVB3 | 15733 | 18770 | 3.12% | 0.189% |
| 61 | 12.486 | 1637 | 1642 | 1649 | rBV3 | 104436 | 193018 | 32.07% | 1.941% |
| 62 | 12.550 | 1649 | 1653 | 1660 | rVB5 | 46916 | 80399 | 13.36% | 0.809% |
| 63 | 12.662 | 1669 | 1672 | 1677 | rVB3 | 34643 | 48318 | 8.03% | 0.486% |
| 64 | 12.779 | 1687 | 1692 | 1695 | rBV | 52112 | 78352 | 13.02% | 0.788% |
| 65 | 12.821 | 1695 | 1699 | 1703 | rVV2 | 55333 | 77631 | 12.90% | 0.781% |
| 66 | 12.885 | 1707 | 1710 | 1719 | rVB2 | 55203 | 101018 | 16.78% | 1.016% |
| 67 | 12.973 | 1719 | 1725 | 1728 | rBV2 | 88425 | 167919 | 27.90% | 1.689% |
| 68 | 13.208 | 1761 | 1765 | 1772 | rVB9 | 16796 | 34608 | 5.75% | 0.348% |
| 69 | 13.302 | 1775 | 1781 | 1783 | rBV2 | 18439 | 33530 | 5.57% | 0.337% |
| 70 | 13.367 | 1788 | 1792 | 1796 | rVB2 | 28892 | 43880 | 7.29% | 0.441% |
| 71 | 13.420 | 1796 | 1801 | 1806 | rBV2 | 41459 | 65408 | 10.87% | 0.658% |

LSC Area Percent Report

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Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.490 | 1807 | 1813 | 1817 | rBV6 | 29038 | 64613 | 10.73% | 0.650% |
| 73 | 13.602 | 1826 | 1832 | 1838 | rVB2 | 46148 | 109780 | 18.24% | 1.104% |
| 74 | 13.755 | 1852 | 1858 | 1861 | rBV3 | 58585 | 115632 | 19.21% | 1.163% |
| 75 | 13.790 | 1861 | 1864 | 1872 | rVB5 | 56492 | 118247 | 19.64% | 1.189% |
| 76 | 13.884 | 1878 | 1880 | 1887 | rVB4 | 39625 | 55561 | 9.23% | 0.559% |
| 77 | 13.955 | 1888 | 1892 | 1895 | rBV4 | 36571 | 65611 | 10.90% | 0.660% |
| 78 | 14.025 | 1900 | 1904 | 1911 | rVB | 226281 | 328673 | 54.60% | 3.305% |
| 79 | 14.119 | 1913 | 1920 | 1928 | rBV5 | 96818 | 187008 | 31.07% | 1.881% |
| 80 | 14.201 | 1930 | 1934 | 1938 | rBV3 | 27433 | 52907 | 8.79% | 0.532% |
| 81 | 14.313 | 1947 | 1953 | 1959 | rVB | 212527 | 351248 | 58.35% | 3.532% |
| 82 | 14.489 | 1978 | 1983 | 1987 | rBV4 | 28653 | 58747 | 9.76% | 0.591% |
| 83 | 14.618 | 2000 | 2005 | 2014 | rBV2 | 173184 | 320588 | 53.26% | 3.224% |
| 84 | 14.701 | 2015 | 2019 | 2029 | rVB2 | 71912 | 124760 | 20.73% | 1.255% |
| 85 | 14.783 | 2029 | 2033 | 2036 | rBV3 | 40500 | 63290 | 10.51% | 0.636% |
| 86 | 14.818 | 2036 | 2039 | 2043 | rVB | 56117 | 70968 | 11.79% | 0.714% |
| 87 | 14.930 | 2054 | 2058 | 2061 | rBV4 | 20135 | 33377 | 5.54% | 0.336% |
| 88 | 15.000 | 2067 | 2070 | 2074 | rVB3 | 22103 | 28019 | 4.65% | 0.282% |
| 89 | 15.406 | 2135 | 2139 | 2144 | rBV3 | 28146 | 45591 | 7.57% | 0.458% |
| 90 | 15.611 | 2169 | 2174 | 2179 | rVB | 302070 | 447069 | 74.27% | 4.496% |
| 91 | 15.735 | 2189 | 2195 | 2202 | rVB2 | 135811 | 215926 | 35.87% | 2.172% |
| 92 | 16.669 | 2351 | 2354 | 2357 | rBV4 | 18326 | 26134 | 4.34% | 0.263% |
| 93 | 17.362 | 2467 | 2472 | 2478 | rBV | 209565 | 319856 | 53.14% | 3.217% |
| 94 | 17.462 | 2484 | 2489 | 2496 | rVB2 | 335845 | 489576 | 81.33% | 4.924% |
| 95 | 18.249 | 2620 | 2623 | 2630 | rBV8 | 18747 | 26098 | 4.34% | 0.262% |
| 96 | 19.519 | 2837 | 2839 | 2846 | rVB8 | 12671 | 15341 | 2.55% | 0.154% |
| 97 | 19.748 | 2872 | 2878 | 2886 | rVB | 398419 | 596708 | 99.13% | 6.001% |
| 98 | 21.628 | 3192 | 3198 | 3206 | rVB | 239785 | 389546 | 64.71% | 3.918% |
| 99 | 24.601 | 3694 | 3704 | 3715 | rVB | 227434 | 601952 | 100.00% | 6.054% |
| 100 | 24.812 | 3732 | 3740 | 3749 | rVB | 133749 | 359305 | 59.69% | 3.613% |

Sum of corrected areas: 9943559

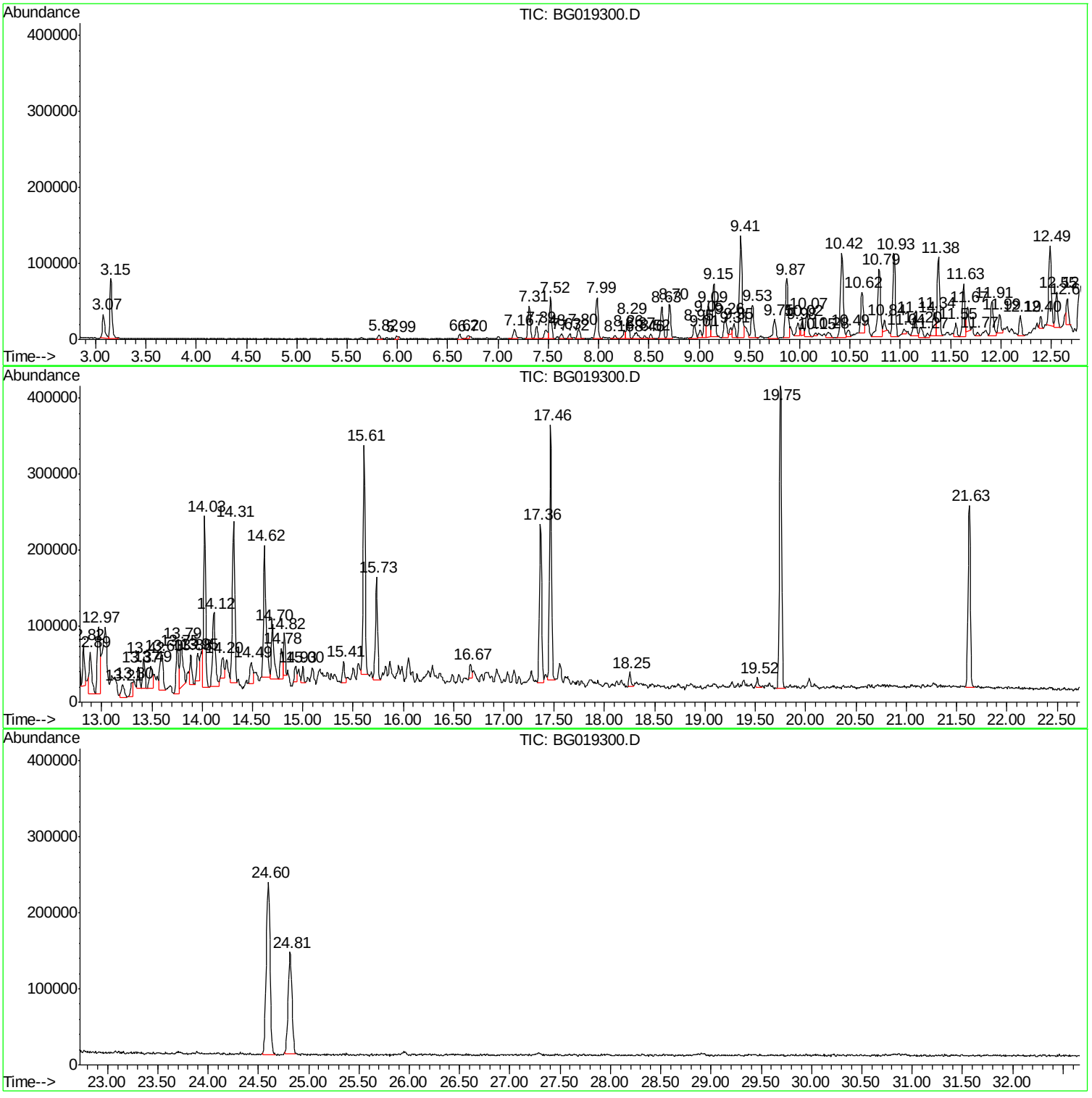
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

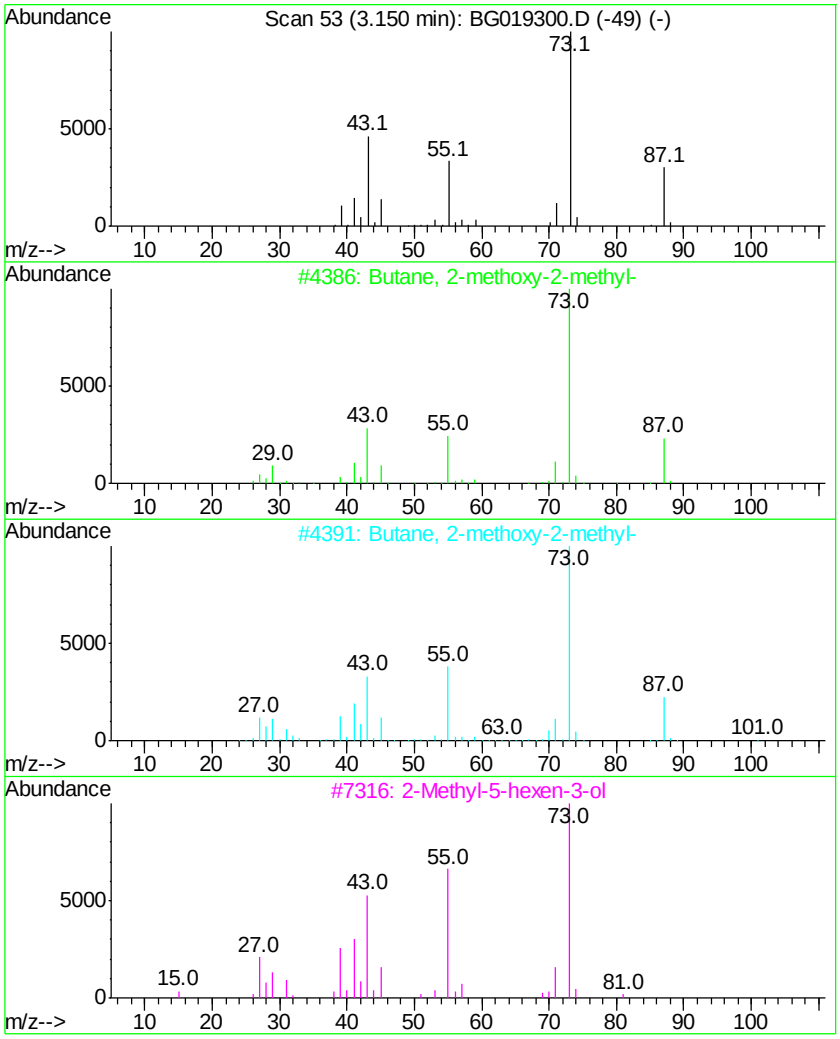
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

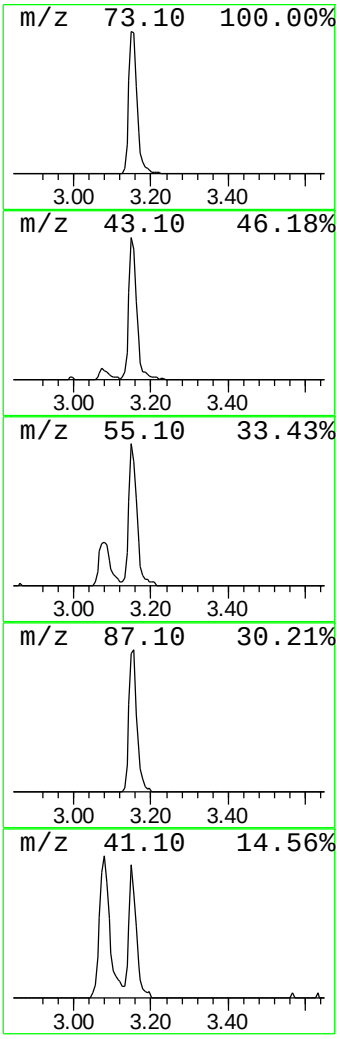
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.15 | 24.33 ng/ul | 111886 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 3 | 2-Methyl-5-hexen-3-ol | 114 | C7H14O | 032815-70-6 | 43 |
| 4 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 5 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 10 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

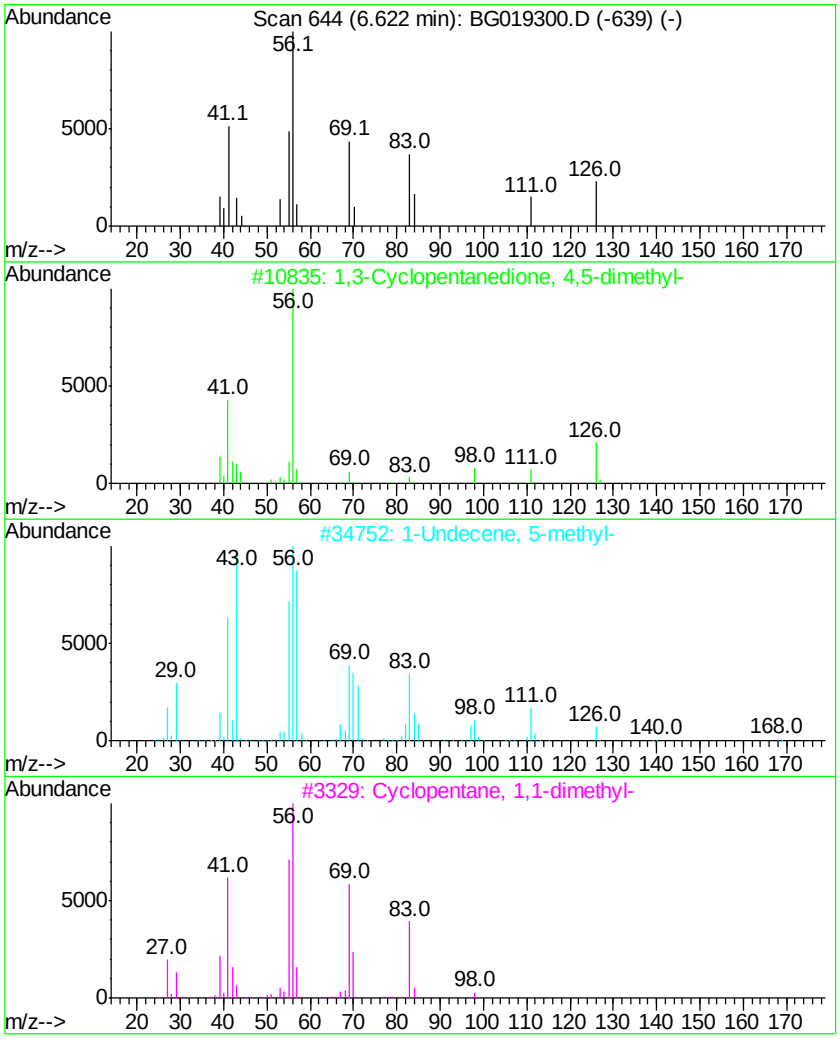
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

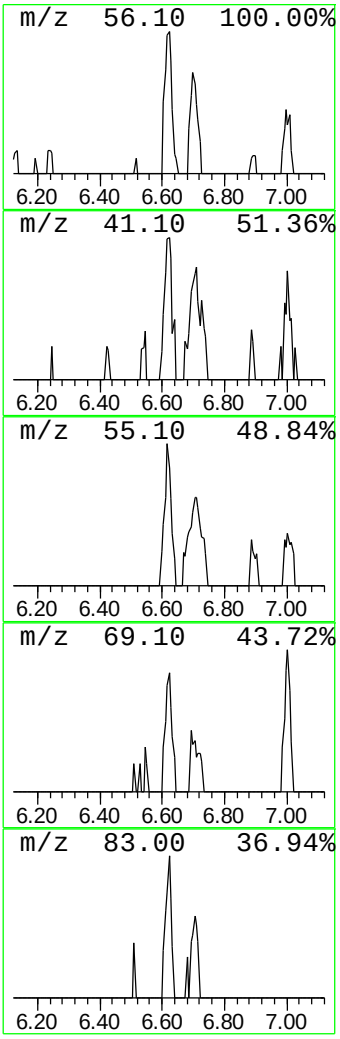
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 1,3-Cyclopentanedione, 4,5-... Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.62 | 2.13 ng/ul | 9794 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentanedione, 4,5-dimet... | 126 | C7H10O2 | 035029-05-1 | 53 |
| 2 | 1-Undecene, 5-methyl- | 168 | C12H24 | 074630-38-9 | 42 |
| 3 | Cyclopentane, 1,1-dimethyl- | 98 | C7H14 | 001638-26-2 | 42 |
| 4 | trans-7-Methyl-3-octene | 126 | C9H18 | 1000113-52-8 | 40 |
| 5 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 38 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

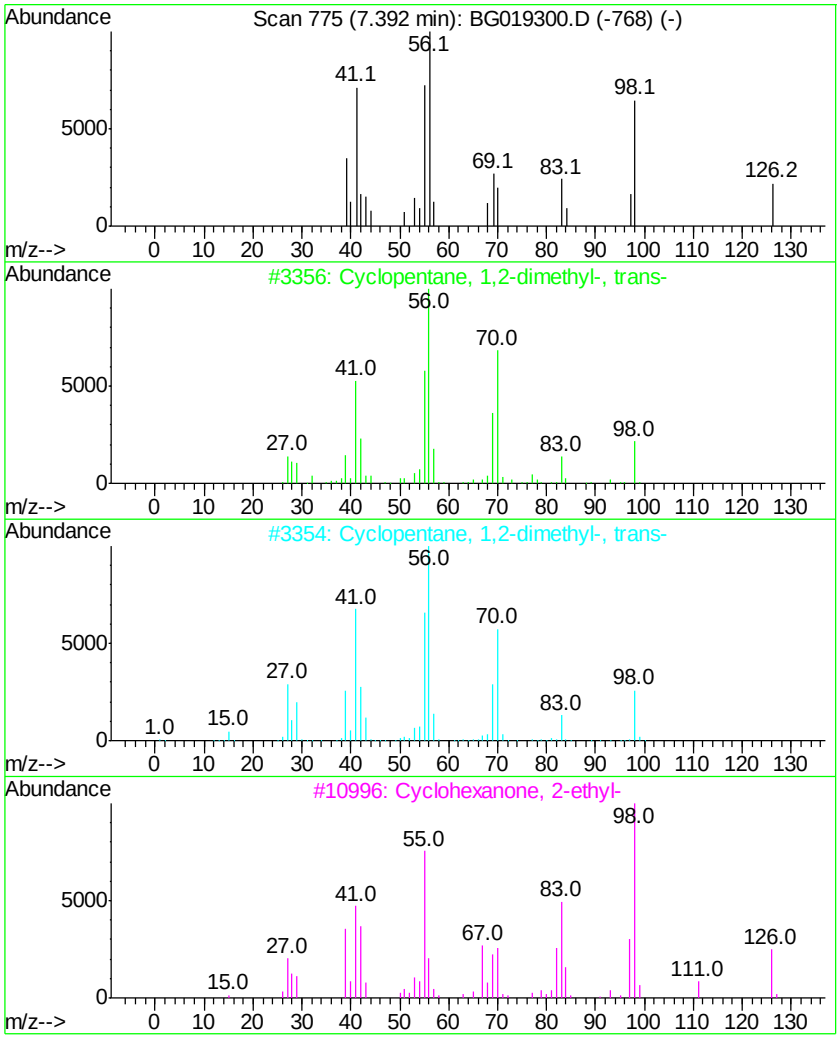
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

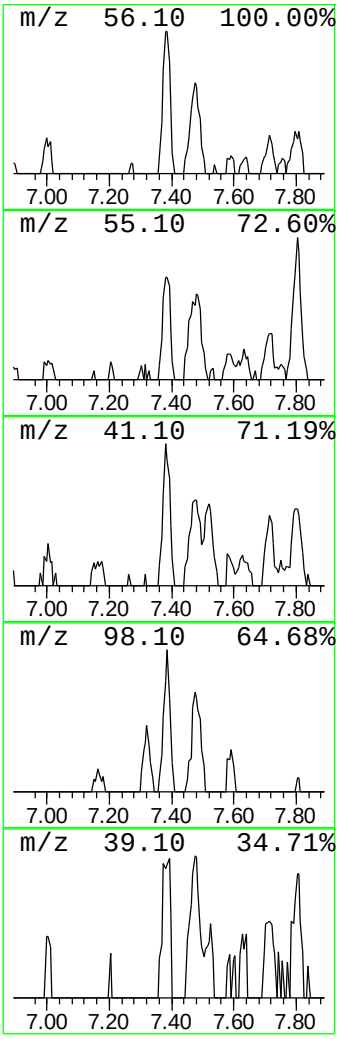
**********

Peak Number 4 Cyclopentane, 1,2-dimethyl-... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.39 | 5.77 ng/ul | 26538 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 62 |
| 2 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 62 |
| 3 | Cyclohexanone, 2-ethyl- | 126 | C8H14O | 004423-94-3 | 50 |
| 4 | Benzen-d5-amine | 98 | C6H2D5N | 004165-61-1 | 38 |
| 5 | Diethylcyanamide | 98 | C5H10N2 | 000617-83-4 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

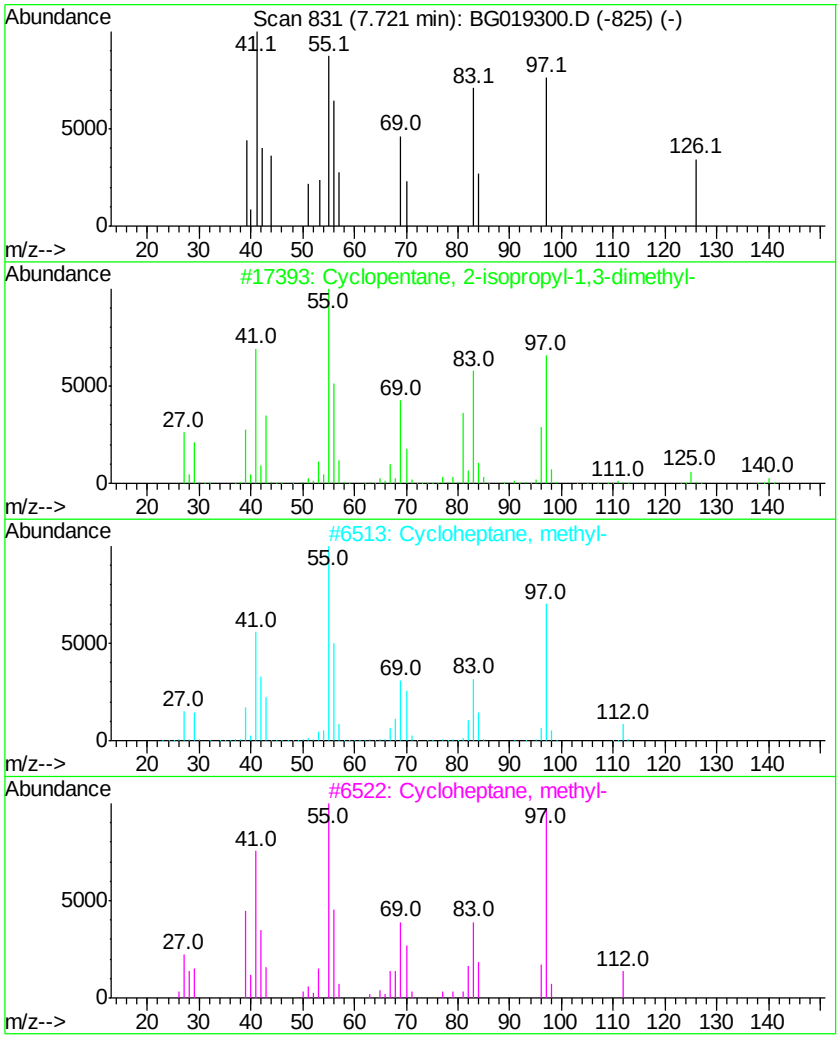
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

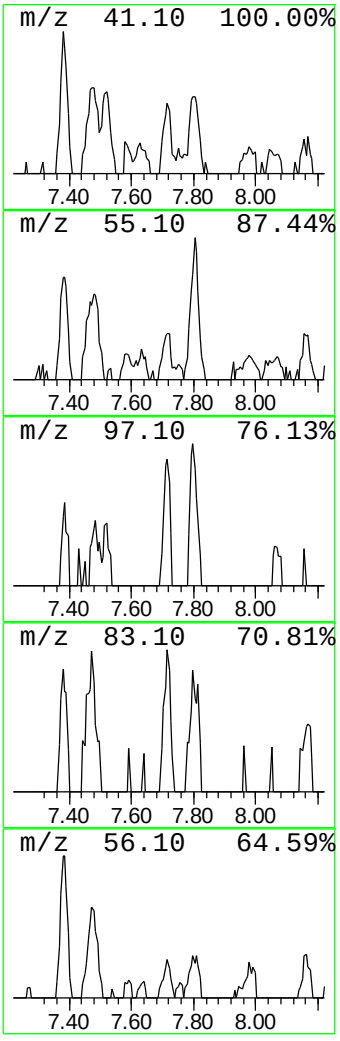
**********

Peak Number 5 Cyclopentane, 2-isopropyl-1... Concentration Rank 54

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 2.45 ng/ul | 11248 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 2-isopropyl-1,3-di... | 140 | C10H20 | 032281-85-9 | 50 |
| 2 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 42 |
| 3 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 40 |
| 4 | Allyl methallyl ether | 112 | C7H12O | 014289-96-4 | 38 |
| 5 | 1-Hexadecene | 224 | C16H32 | 000629-73-2 | 37 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

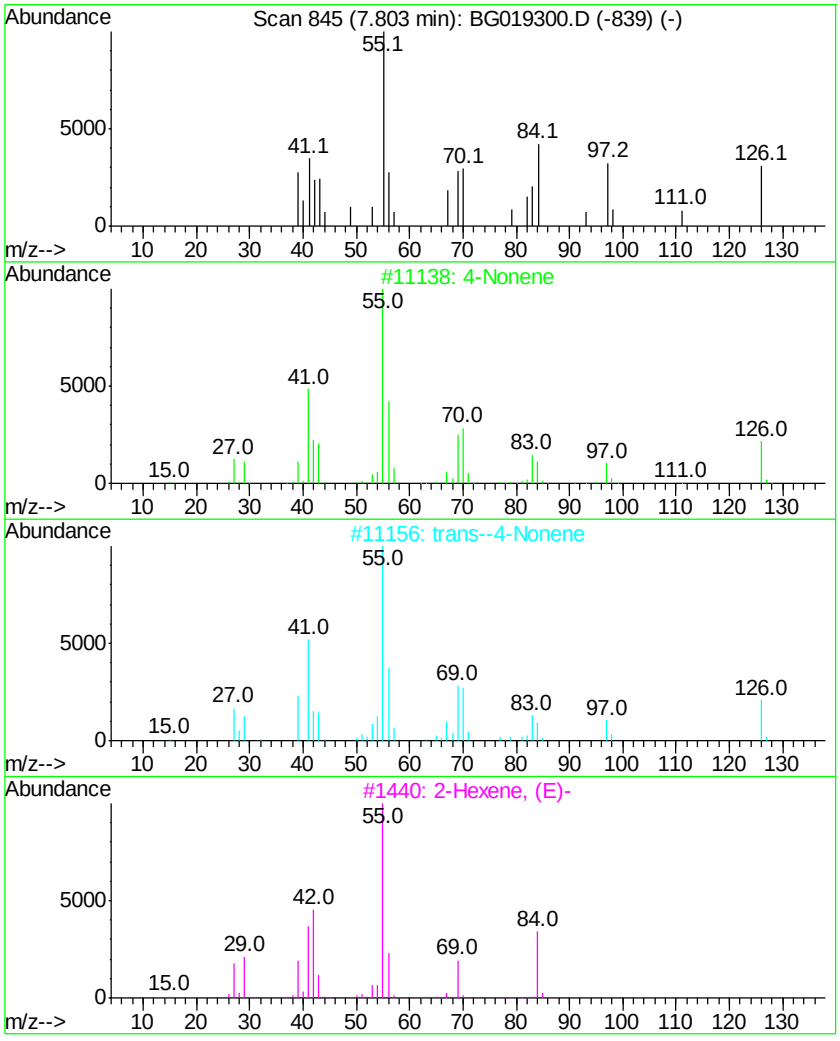
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

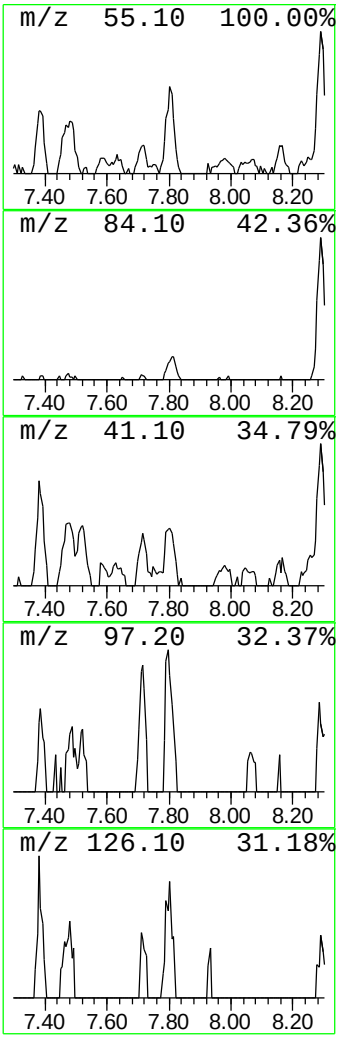
**********

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.80 | 5.16 ng/ul | 23708 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Nonene | 126 | C9H18 | 002198-23-4 | 47 |
| 2 | trans--4-Nonene | 126 | C9H18 | 010405-85-3 | 46 |
| 3 | 2-Hexene, (E)- | 84 | C6H12 | 004050-45-7 | 43 |
| 4 | cis-4-Nonene | 126 | C9H18 | 010405-84-2 | 43 |
| 5 | 2-Nonene, (E)- | 126 | C9H18 | 006434-78-2 | 43 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

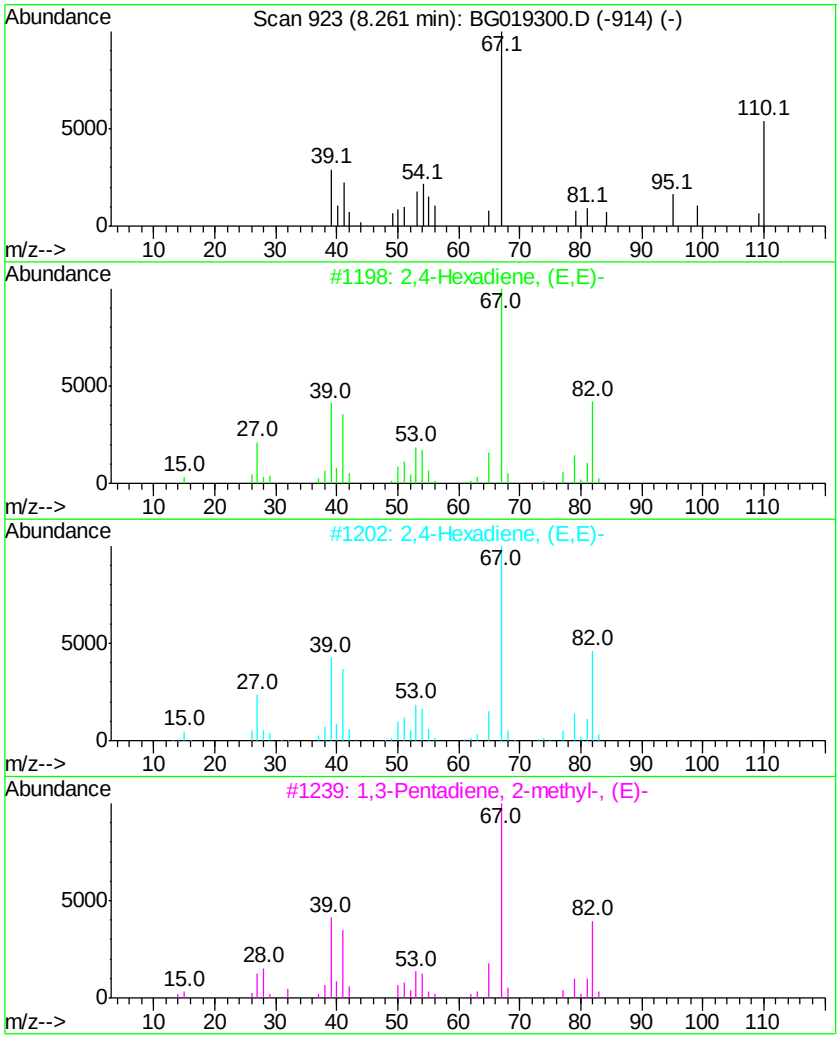
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

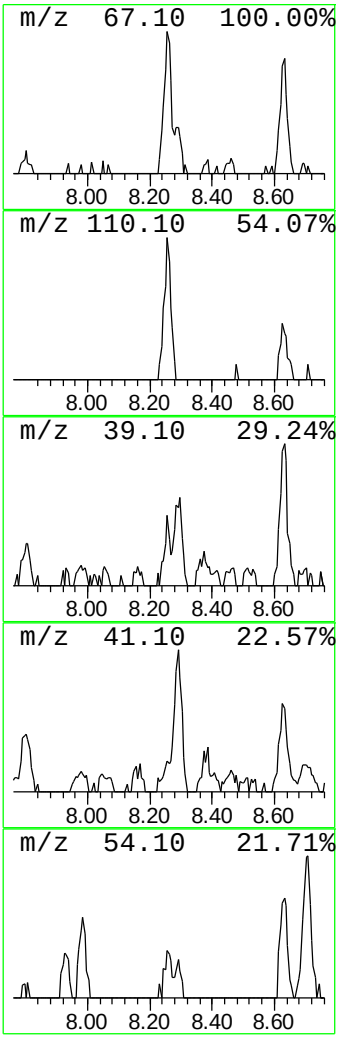
**********

Peak Number 7 2,4-Hexadiene, (E,E)- Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.26 | 4.05 ng/ul | 18633 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Hexadiene, (E,E)- | 82 | C6H10 | 005194-51-4 | 53 |
| 2 | 2,4-Hexadiene, (E,E)- | 82 | C6H10 | 005194-51-4 | 53 |
| 3 | 1,3-Pentadiene, 2-methyl-, (E)- | 82 | C6H10 | 000926-54-5 | 53 |
| 4 | 1,4-Hexadiene, (Z)- | 82 | C6H10 | 007318-67-4 | 53 |
| 5 | 1,4-Hexadiene | 82 | C6H10 | 000592-45-0 | 53 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

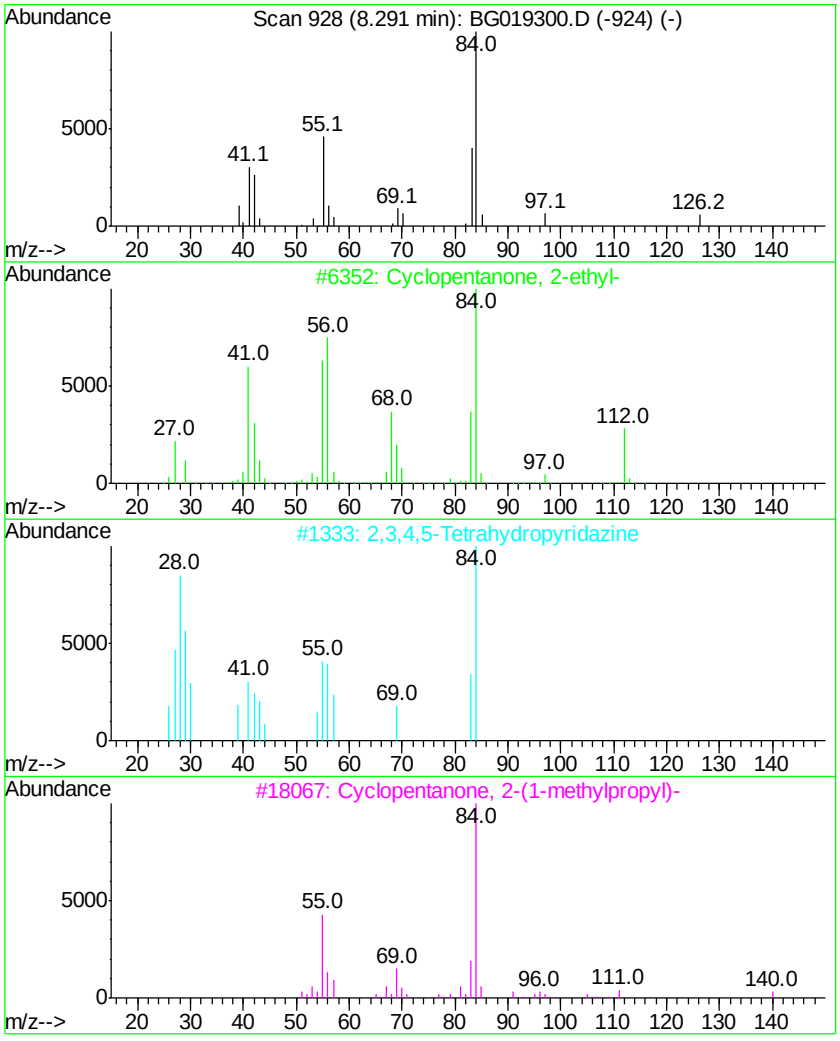
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

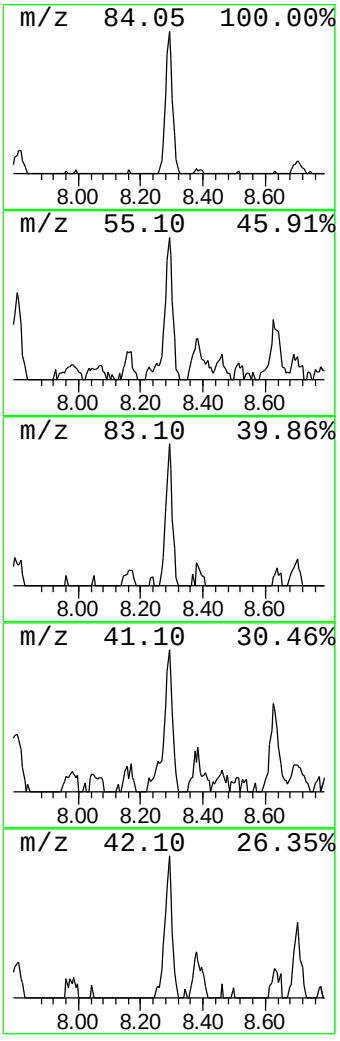
**********

Peak Number 8 Cyclopentanone, 2-ethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.29 | 9.84 ng/ul | 45233 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentanone, 2-ethyl- | 112 | C7H12O | 004971-18-0 | 72 |
| 2 | 2,3,4,5-Tetrahydropyridazine | 84 | C4H8N2 | 000694-06-4 | 59 |
| 3 | Cyclopentanone, 2-(1-methylpropyl)- | 140 | C9H16O | 006376-92-7 | 36 |
| 4 | N-Ethylidene t-butylamine | 99 | C6H13N | 007020-80-6 | 33 |
| 5 | 2H-1,2-Oxazine, 3,6-dihydro-3-me... | 99 | C5H9NO | 107468-64-4 | 33 |



# Library Search Compound Report

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Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

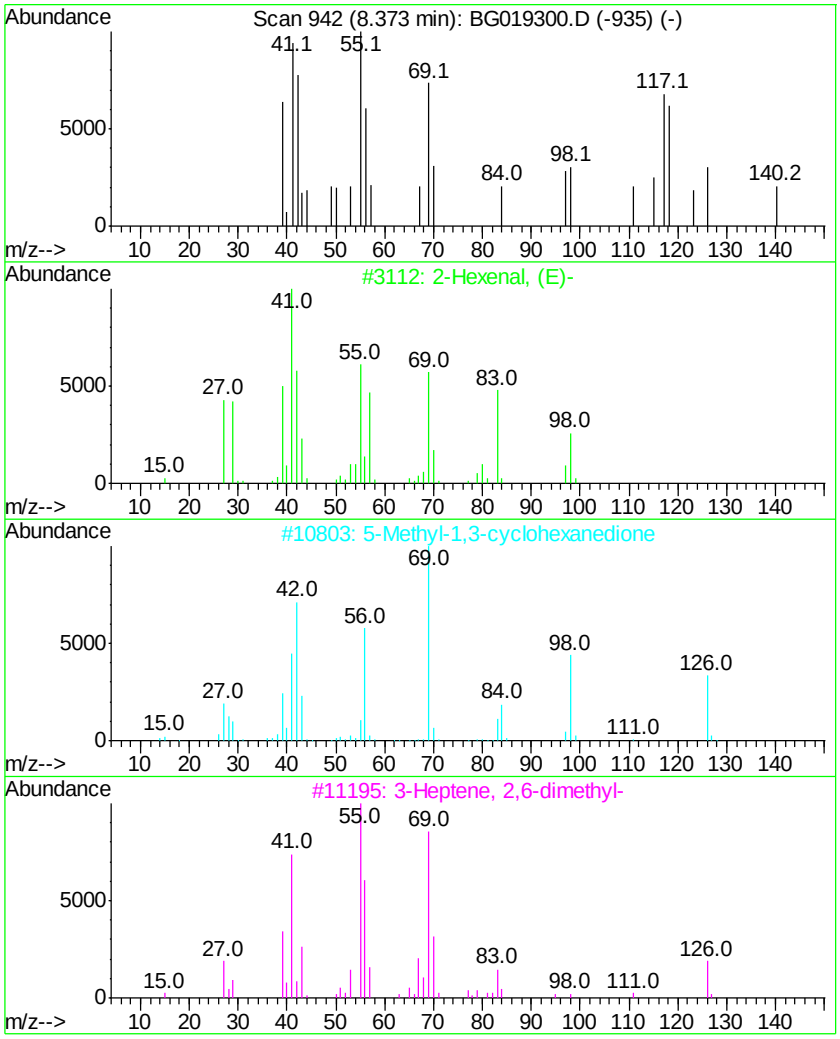
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

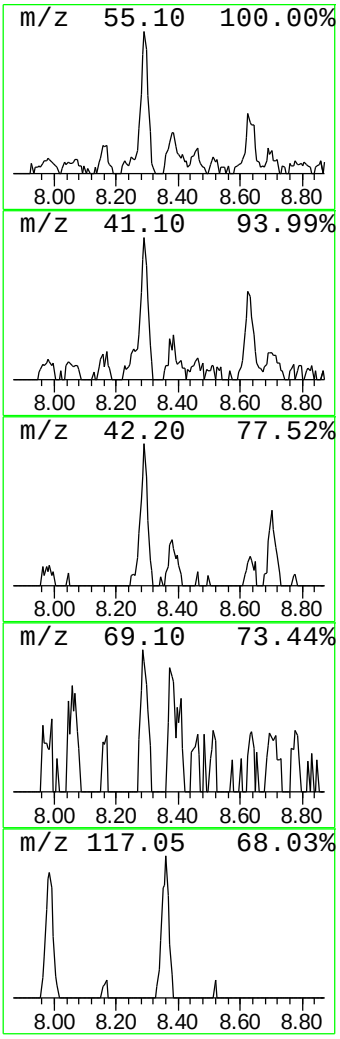
**********

Peak Number 9 unknown-01 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.37 | 5.07 ng/ul | 23316 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hexenal, (E)- | 98 | C6H10O | 006728-26-3 | 35 |
| 2 | 5-Methyl-1,3-cyclohexanedione | 126 | C7H10O2 | 004341-24-6 | 35 |
| 3 | 3-Heptene, 2,6-dimethyl- | 126 | C9H18 | 002738-18-3 | 25 |
| 4 | trans-3-Decene | 140 | C10H20 | 019150-21-1 | 18 |
| 5 | Cycloheptanone, 2-methyl- | 126 | C8H14O | 000932-56-9 | 18 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

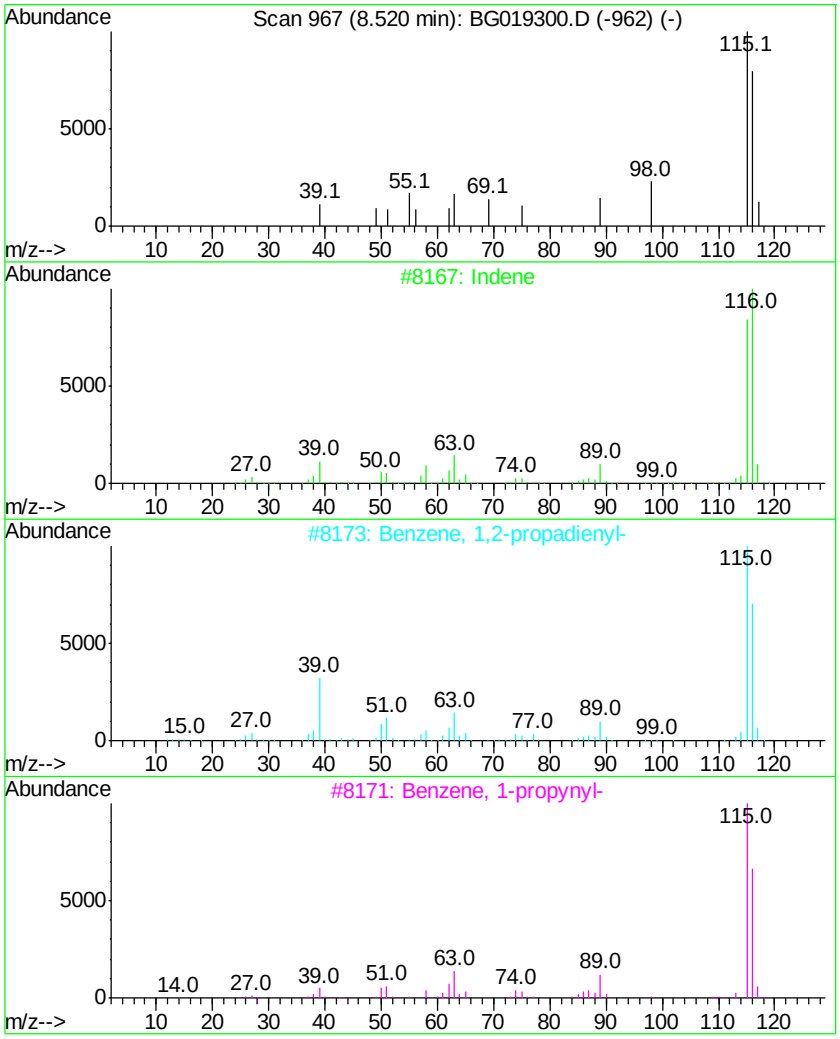
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

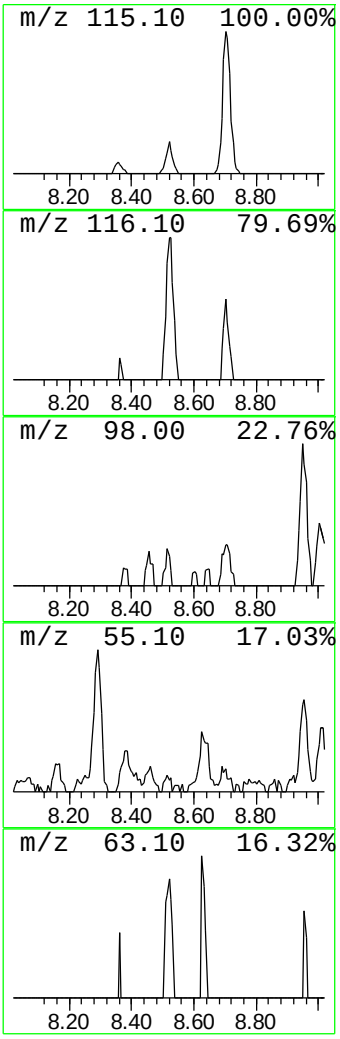
**********

Peak Number 10 Indene Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.52 | 2.08 ng/ul | 9569 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 72 |
| 2 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 72 |
| 3 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 64 |
| 4 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 64 |
| 5 | Benzene,1-ethynyl-2-methyl- | 116 | C9H8 | 000766-47-2 | 64 |



# Library Search Compound Report

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Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

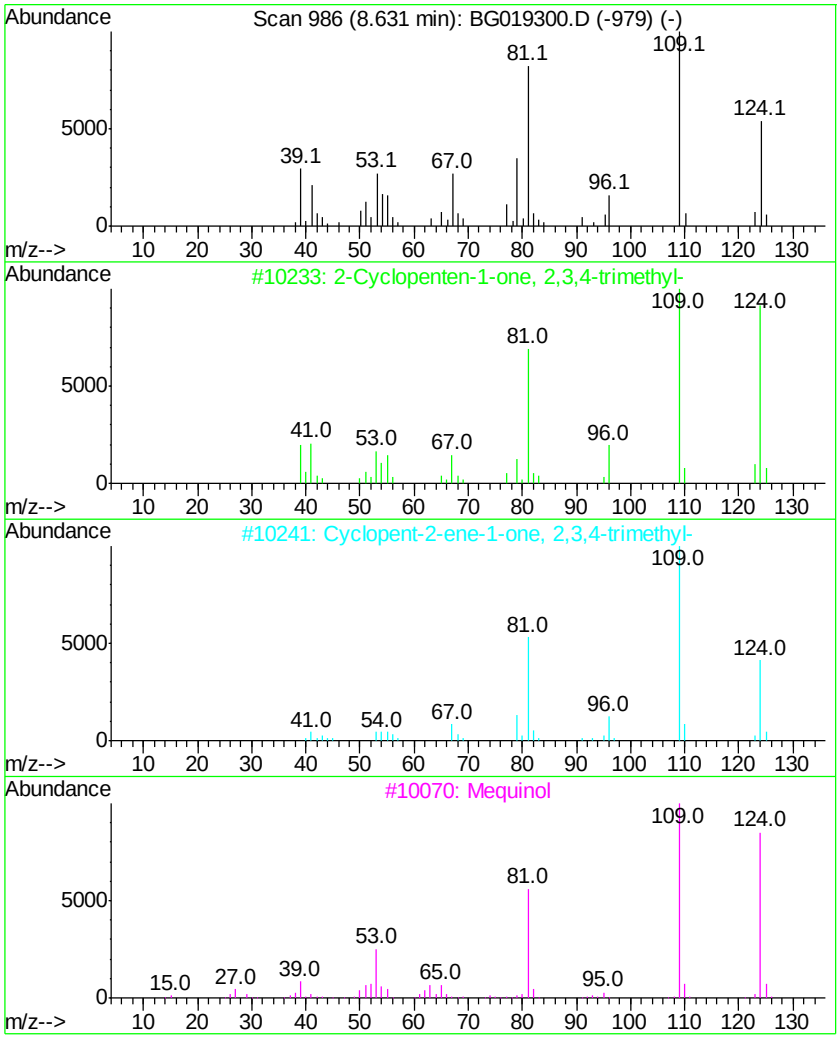
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

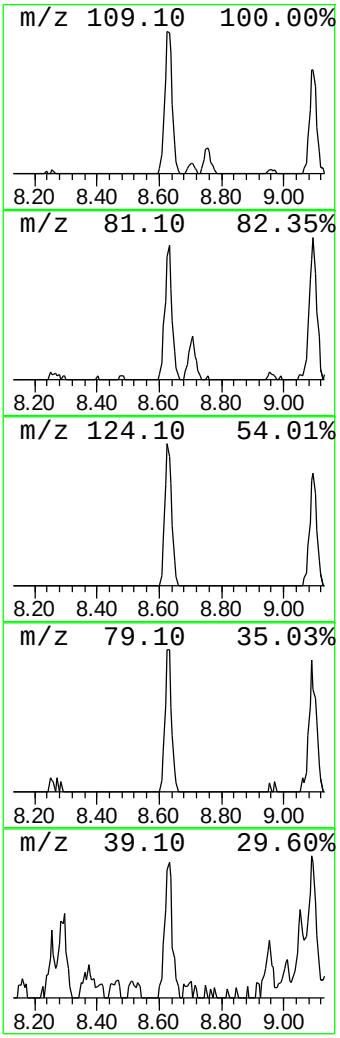
**********

Peak Number 11 2-Cyclopenten-1-one, 2,3,4-... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.63 | 15.39 ng/ul | 70789 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclopenten-1-one, 2,3,4-trime... | 124 | C8H12O | 028790-86-5 | 90 |
| 2 | Cyclopent-2-ene-1-one, 2,3,4-tri... | 124 | C8H12O | 083321-16-8 | 87 |
| 3 | Mequinol | 124 | C7H8O2 | 000150-76-5 | 81 |
| 4 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 81 |
| 5 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 74 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

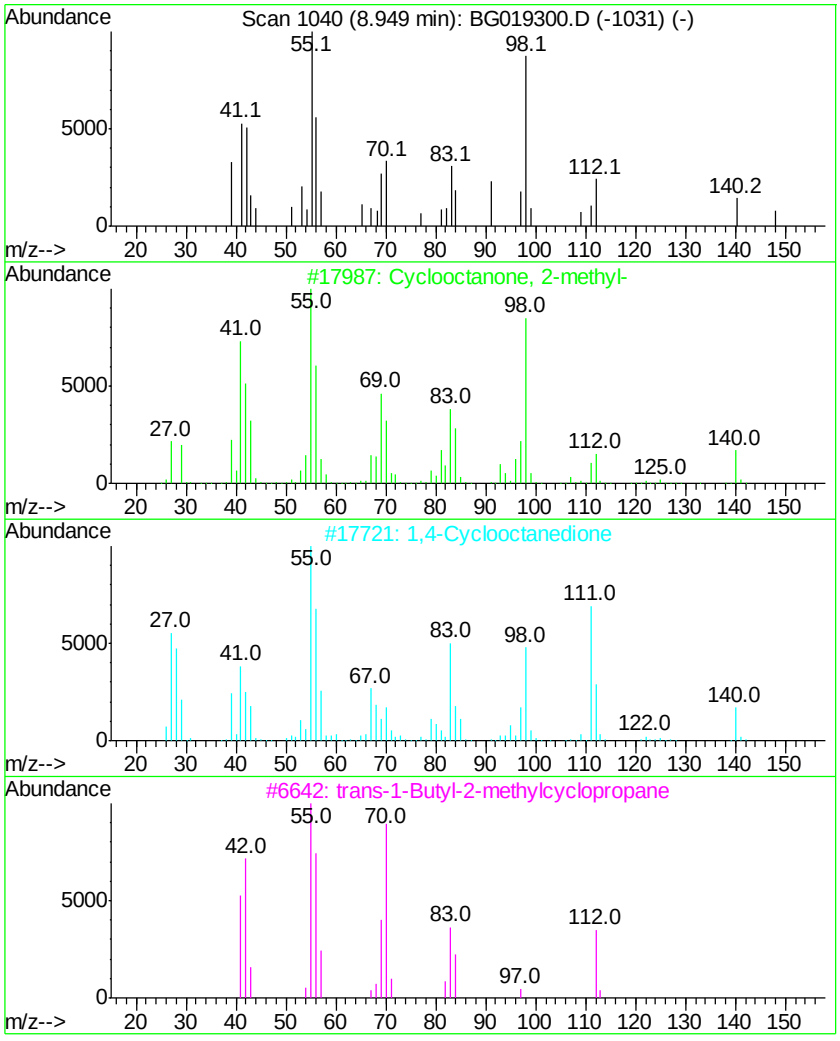
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

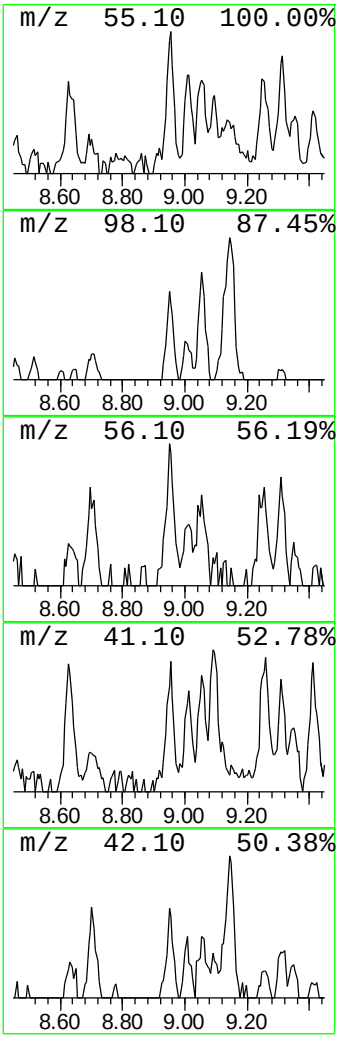
**********

Peak Number 12 Cyclooctanone, 2-methyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.95 | 6.99 ng/ul | 32151 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclooctanone, 2-methyl- | 140 | C9H16O | 010363-27-6 | 87 |
| 2 | 1,4-Cyclooctanedione | 140 | C8H12O2 | 055794-45-1 | 49 |
| 3 | trans-1-Butyl-2-methylcyclopropane | 112 | C8H16 | 038851-70-6 | 46 |
| 4 | Cyclooctane | 112 | C8H16 | 000292-64-8 | 46 |
| 5 | cis-1-Butyl-2-methylcyclopropane | 112 | C8H16 | 038851-69-3 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

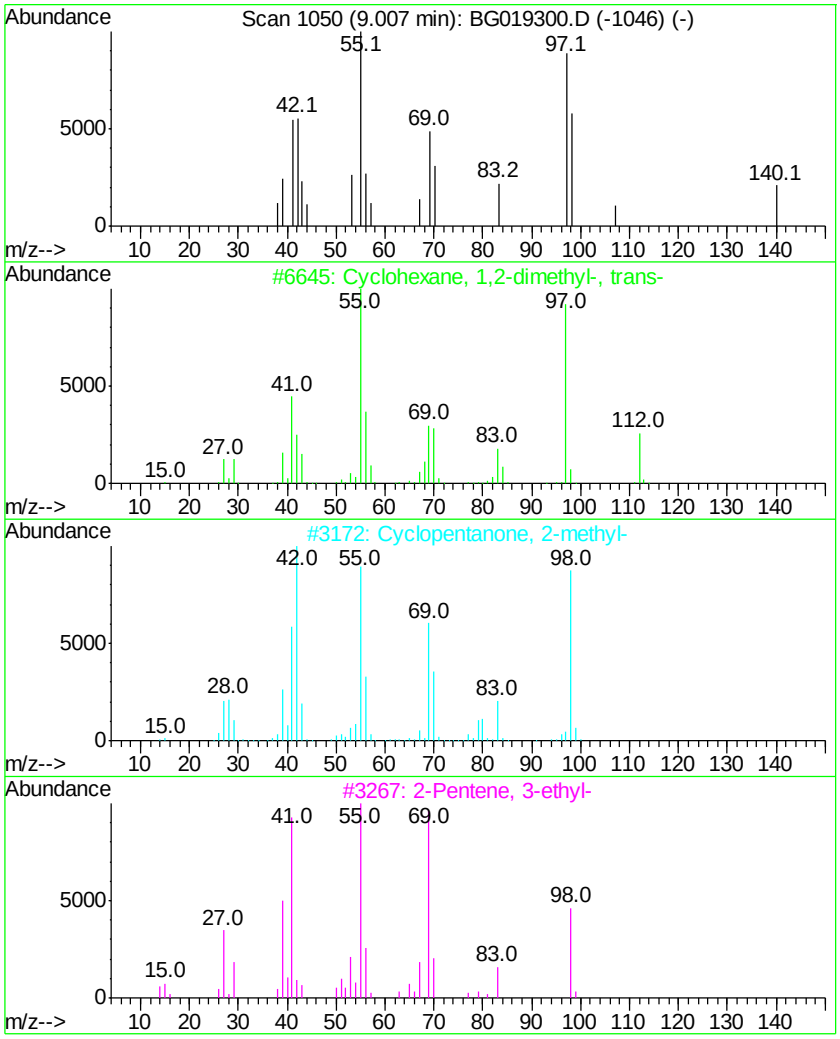
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

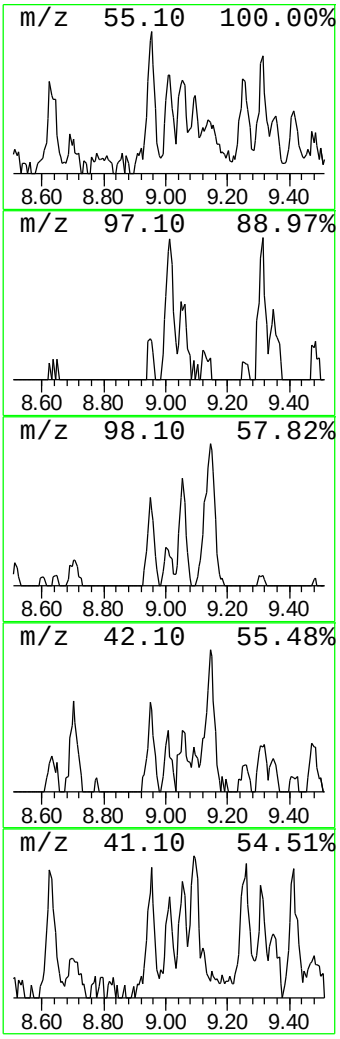
**********

Peak Number 13 unknown-02 Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.01 | 3.59 ng/ul | 16489 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 43 |
| 2 | Cyclopentanone, 2-methyl- | 98 | C6H10O | 001120-72-5 | 38 |
| 3 | 2-Pentene, 3-ethyl- | 98 | C7H14 | 000816-79-5 | 38 |
| 4 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 38 |
| 5 | Cyclooctanone | 126 | C8H14O | 000502-49-8 | 38 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

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

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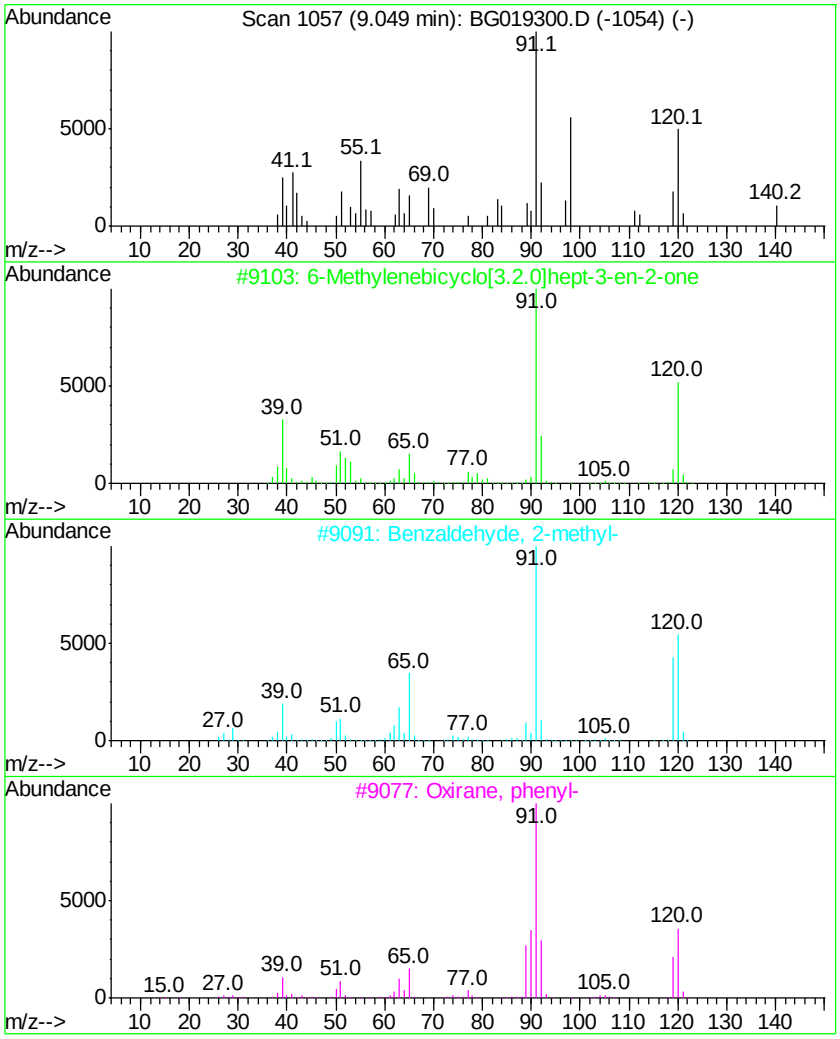
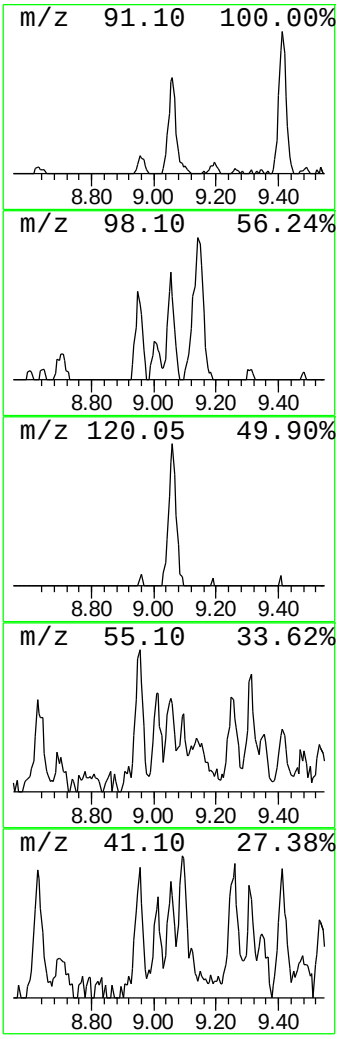
Peak Number 14 unknown-03 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.05 | 10.26 ng/ul | 47204 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Methylenebicyclo[3.2.0]hept-3-... | 120 | C8H8O | 1000211-11-9 | 45 |
| 2 | Benzaldehyde, 2-methyl- | 120 | C8H8O | 000529-20-4 | 43 |
| 3 | Oxirane, phenyl- | 120 | C8H8O | 000096-09-3 | 43 |
| 4 | Phthalan | 120 | C8H8O | 000496-14-0 | 38 |
| 5 | Benzaldehyde, 2-methyl- | 120 | C8H8O | 000529-20-4 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

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

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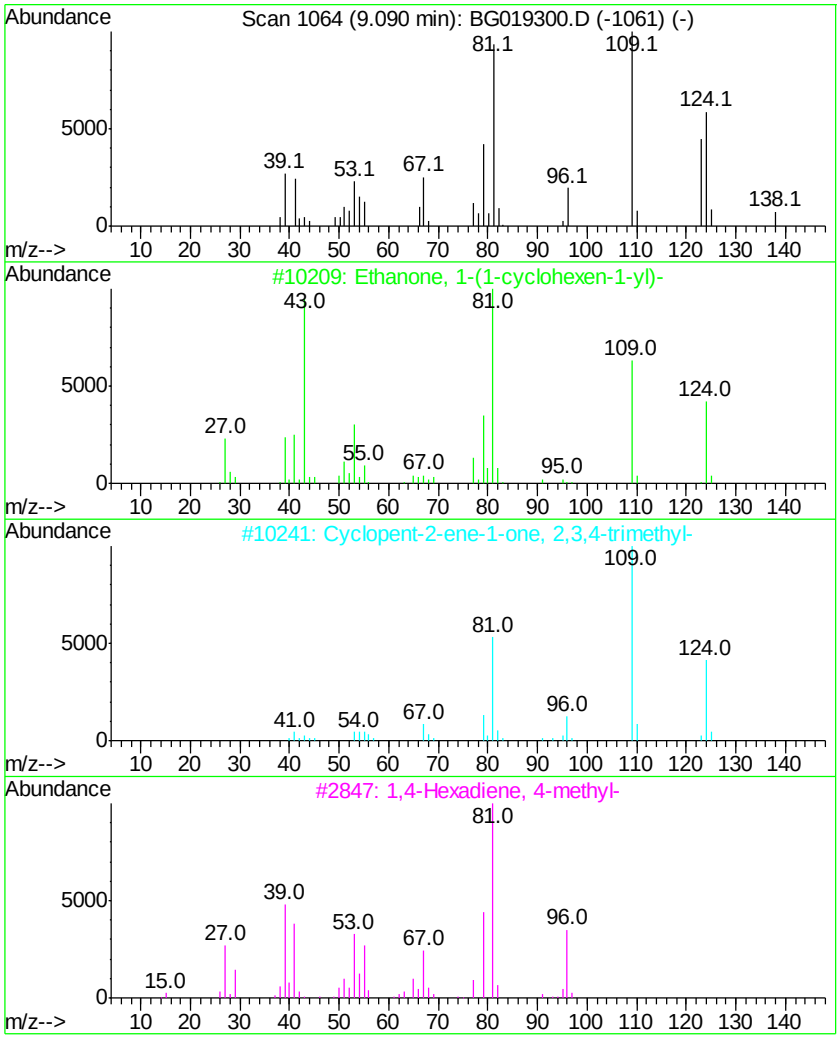
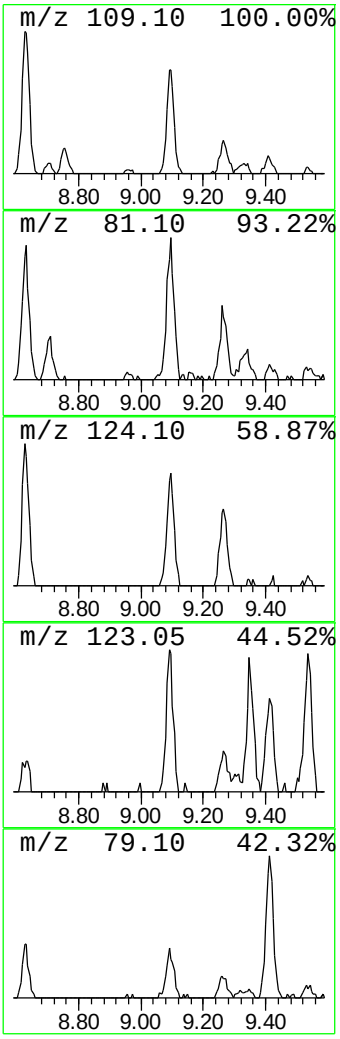
Peak Number 15 Ethanone, 1-(1-cyclohexen-1... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.09 | 15.26 ng/ul | 70199 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 62 |
| 2 | Cyclopent-2-ene-1-one, 2,3,4-tri... | 124 | C8H12O | 083321-16-8 | 62 |
| 3 | 1,4-Hexadiene, 4-methyl- | 96 | C7H12 | 001116-90-1 | 50 |
| 4 | 1,4-Hexadiene, 2-methyl- | 96 | C7H12 | 001119-14-8 | 46 |
| 5 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

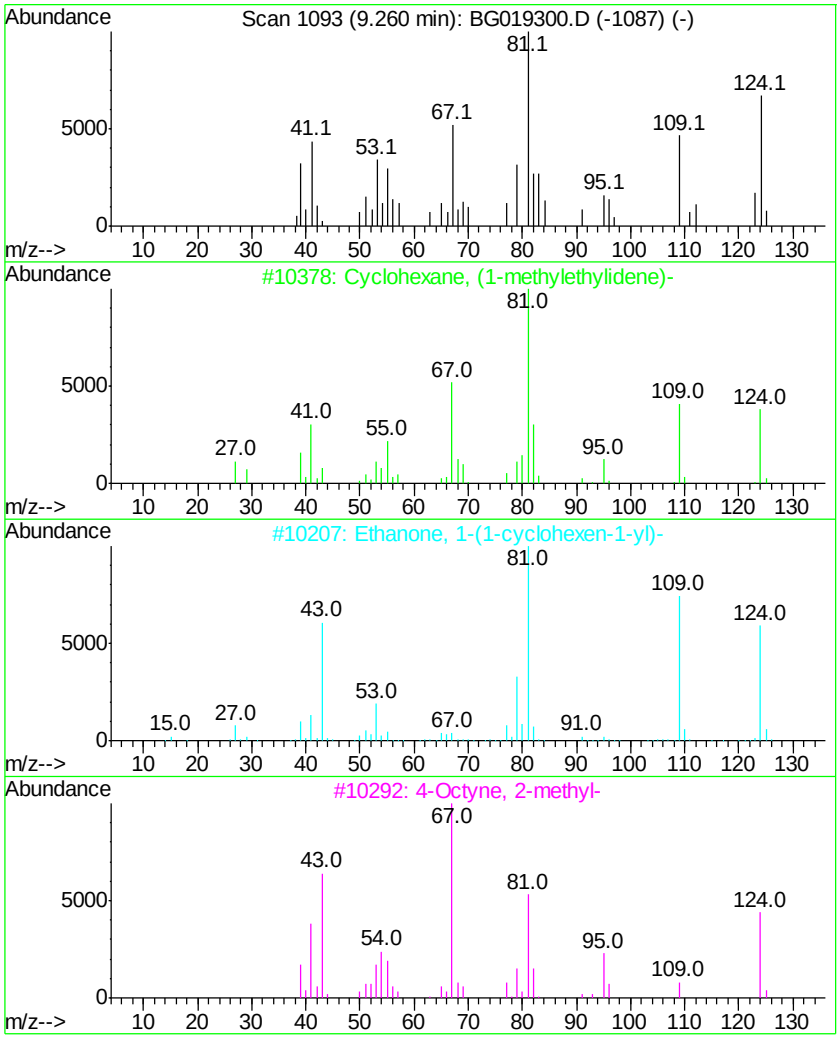
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

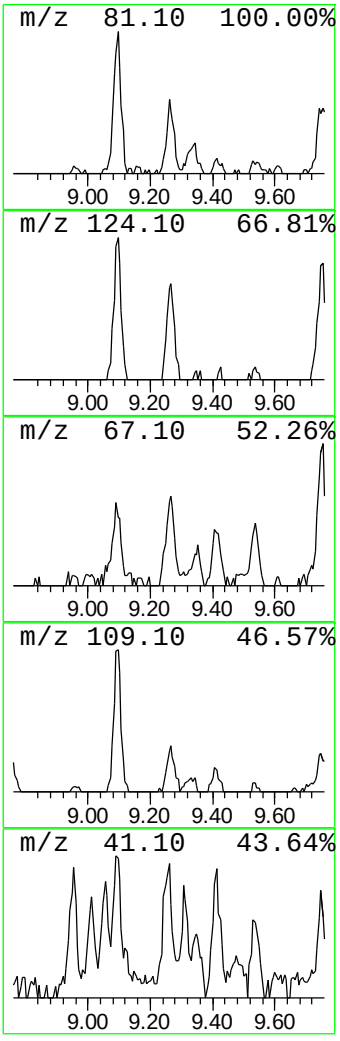
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Cyclohexane, (1-methylethyl... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.26 | 10.88 ng/ul | 50050 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethylidene)- | 124 | C9H16 | 005749-72-4 | 64 |
| 2 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 49 |
| 3 | 4-Octyne, 2-methyl- | 124 | C9H16 | 010306-94-2 | 45 |
| 4 | 1,3-Pentadiene, 2,4-dimethyl- | 96 | C7H12 | 001000-86-8 | 38 |
| 5 | 1,4-Hexadiene, 4-methyl- | 96 | C7H12 | 001116-90-1 | 38 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

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

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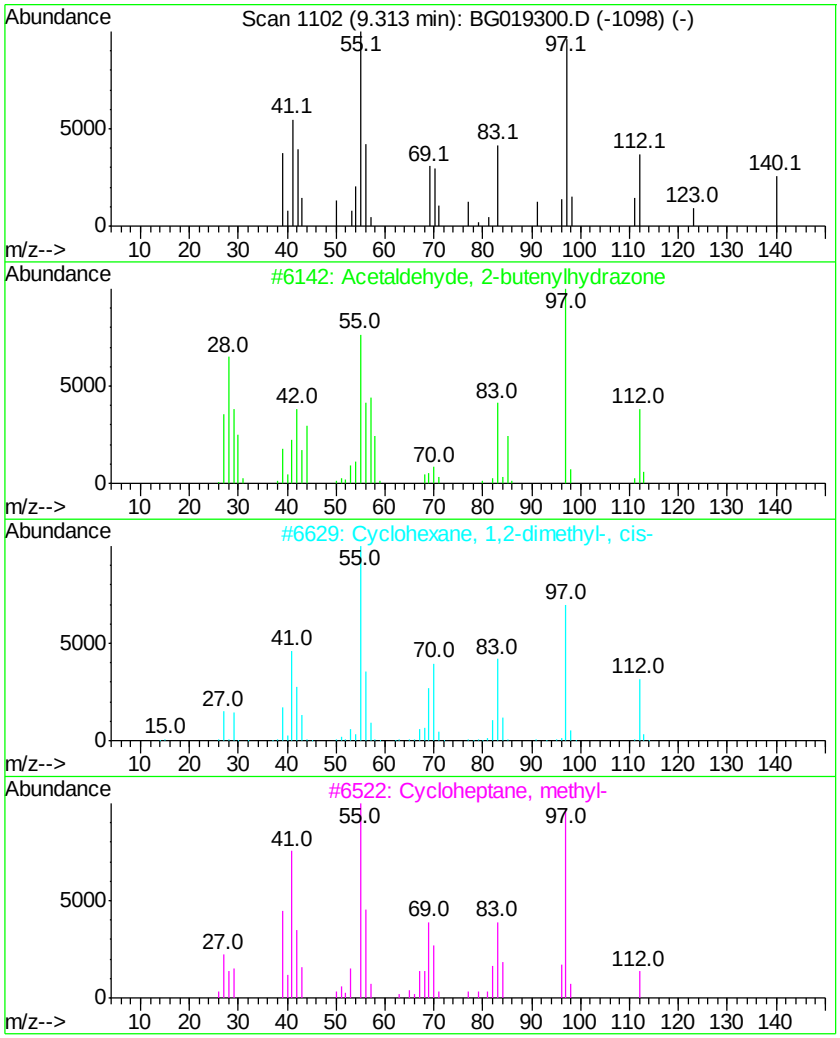
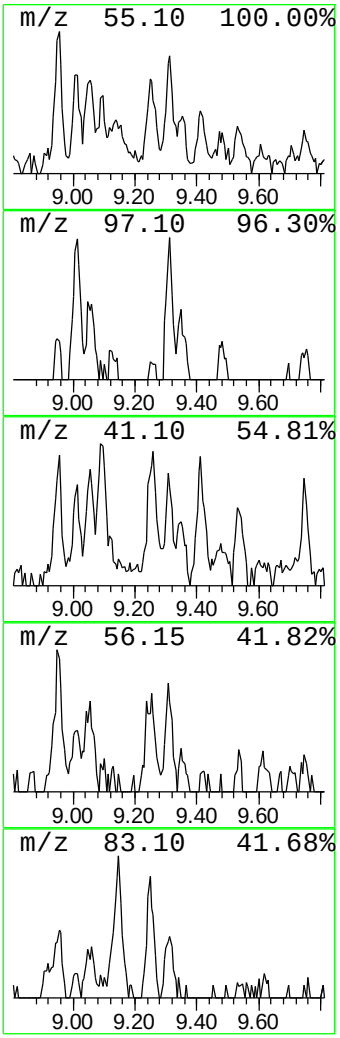
Peak Number 17 Acetaldehyde, 2-butenylhydr... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.31 | 3.21 ng/ul | 14760 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde, 2-butenylhydrazone | 112 | C6H12N2 | 075268-07-4 | 74 |
| 2 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 72 |
| 3 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 72 |
| 4 | Cyclohexane, 1,2-dimethyl- | 112 | C8H16 | 000583-57-3 | 64 |
| 5 | Cycloheptanone, 2-ethyl- | 140 | C9H16O | 003183-41-3 | 58 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

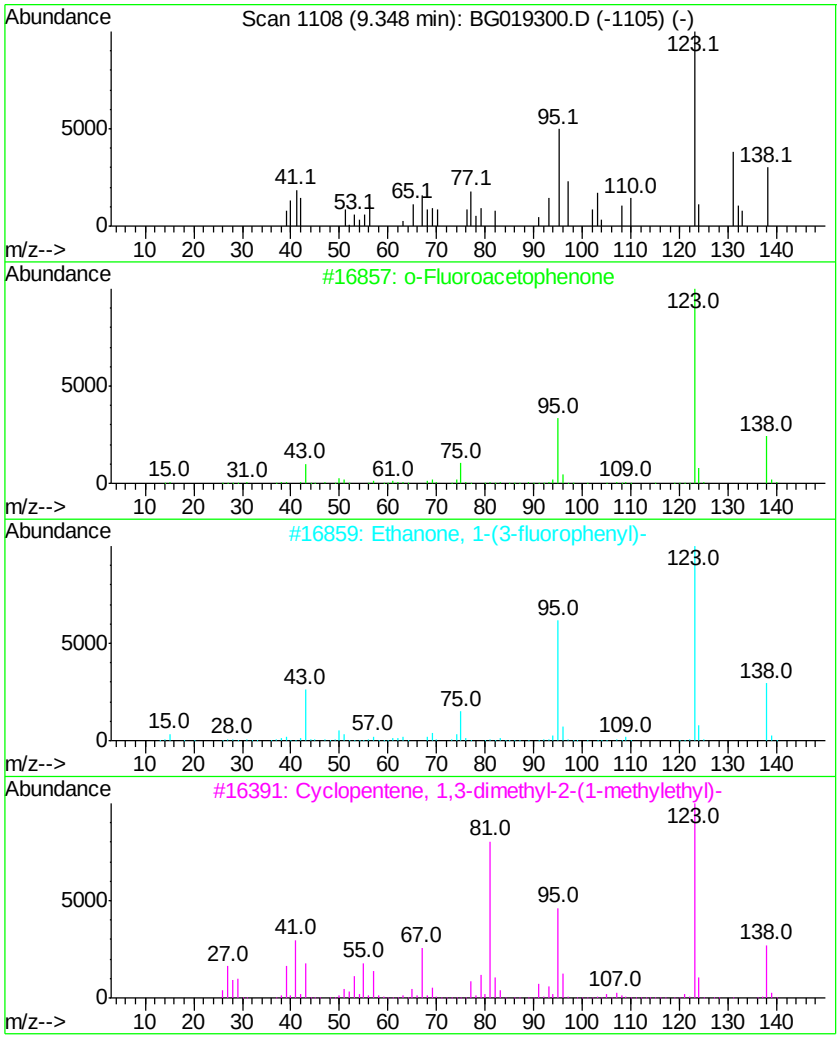
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

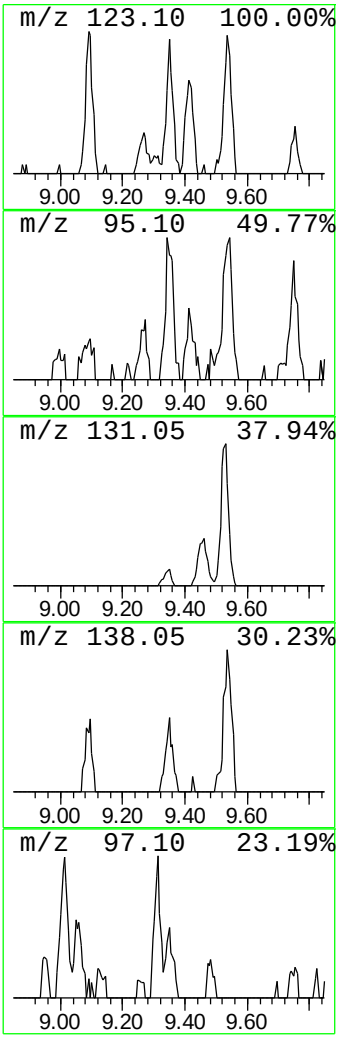
**********

Peak Number 18 o-Fluoroacetophenone Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.35 | 6.11 ng/ul | 28080 | 1,4-Dichlorobenzene-d4 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Fluoroacetophenone | 138 | C8H7FO | 000445-27-2 | 52 |
| 2 | Ethanone, 1-(3-fluorophenyl)- | 138 | C8H7FO | 000455-36-7 | 50 |
| 3 | Cyclopentene, 1,3-dimethyl-2-(1-... | 138 | C10H18 | 061142-32-3 | 50 |
| 4 | o-Fluoroacetophenone | 138 | C8H7FO | 000445-27-2 | 50 |
| 5 | Hexahydroindole | 123 | C8H13N | 018159-32-5 | 47 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

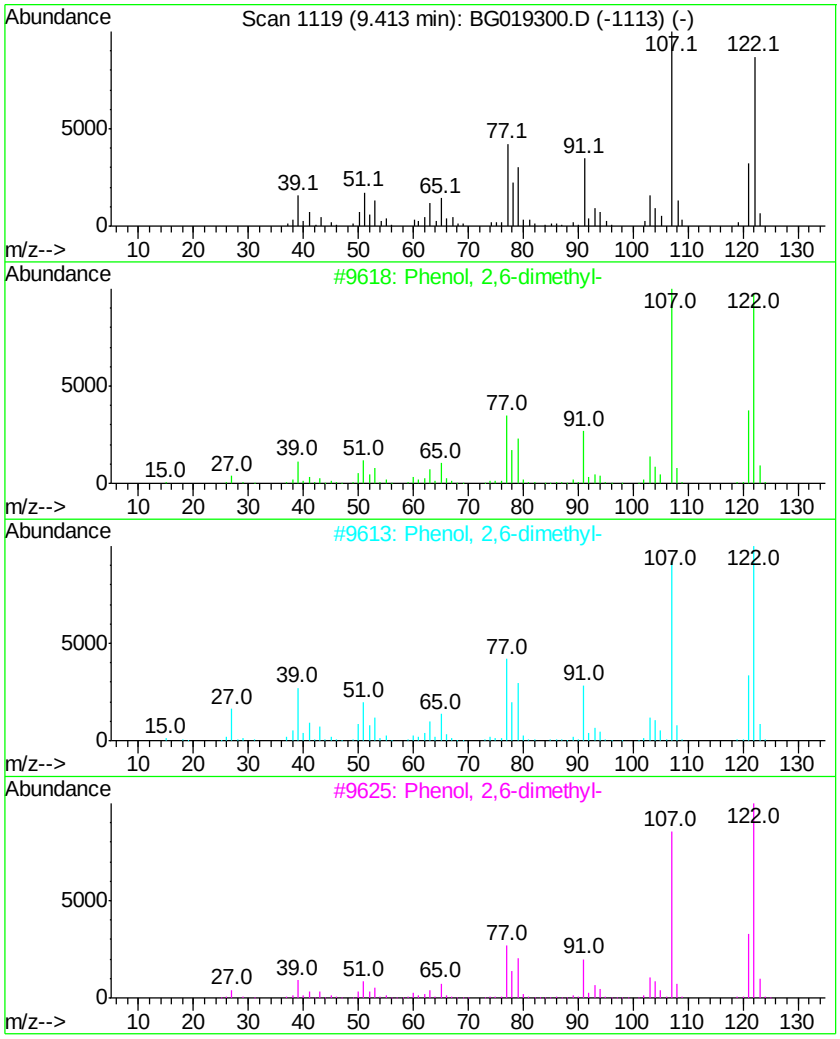
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

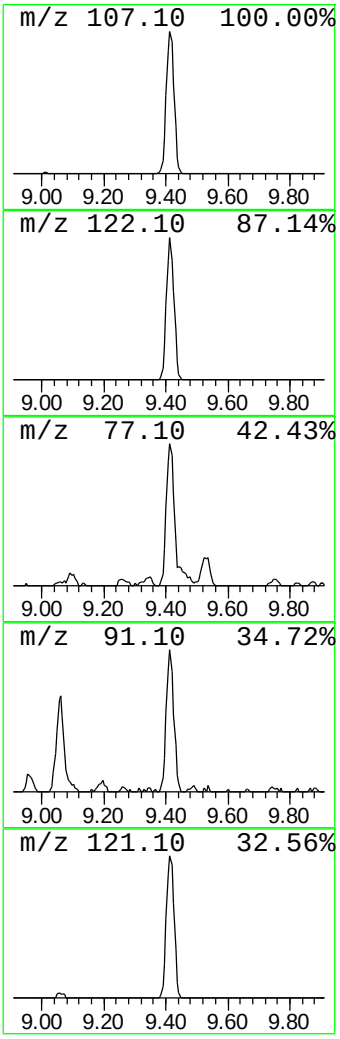
**********

Peak Number 19 Phenol, 2,6-dimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.41 | 24.59 ng/ul | 234060 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 97 |
| 2 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 97 |
| 3 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 96 |
| 4 | Phenol, 2,5-dimethyl- | 122 | C8H10O | 000095-87-4 | 95 |
| 5 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 95 |



# Library Search Compound Report

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Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

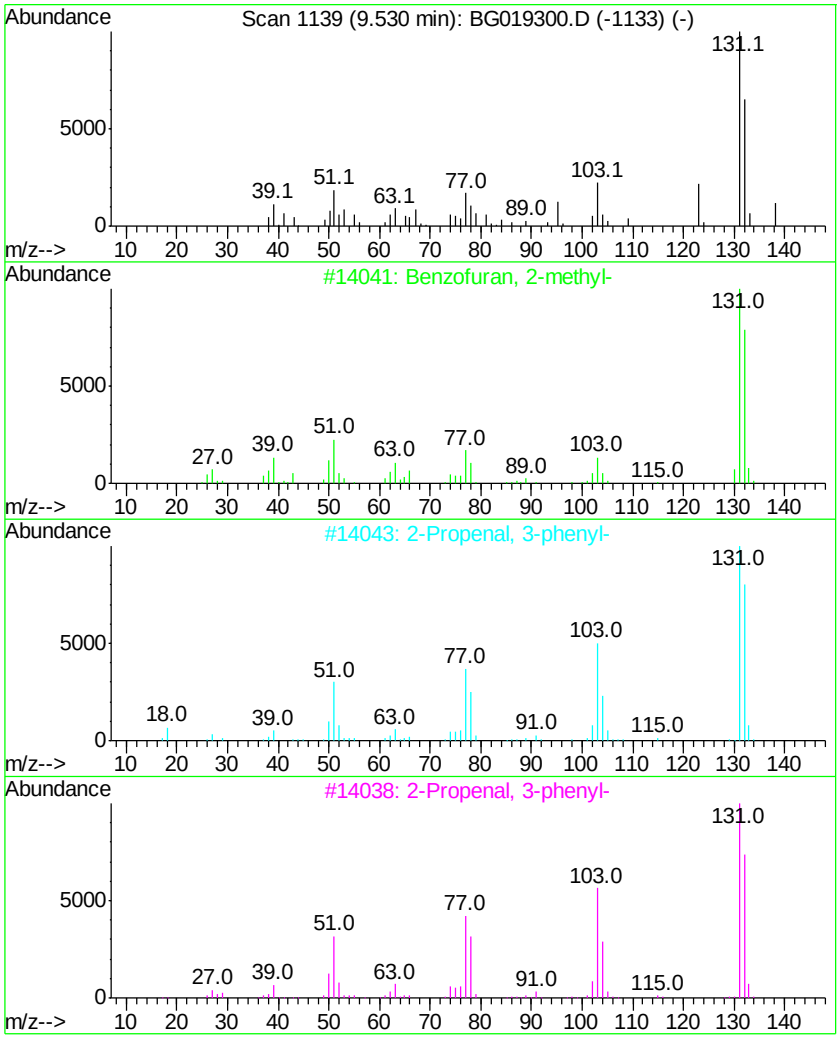
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

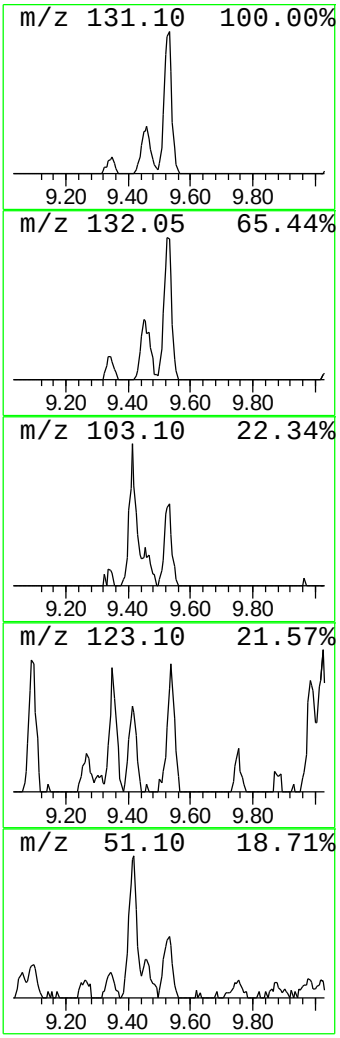
**********

Peak Number 20 Benzofuran, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.53 | 8.42 ng/ul | 80119 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 95 |
| 2 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 76 |
| 3 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 76 |
| 4 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 76 |
| 5 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 76 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

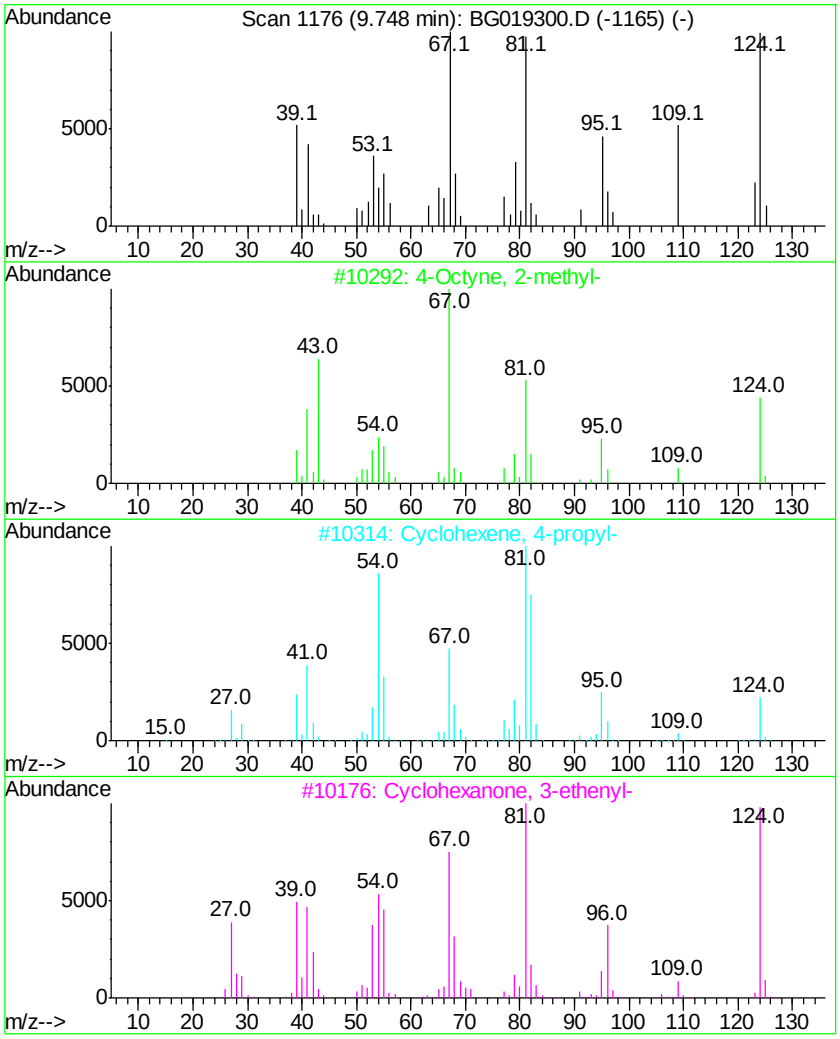
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

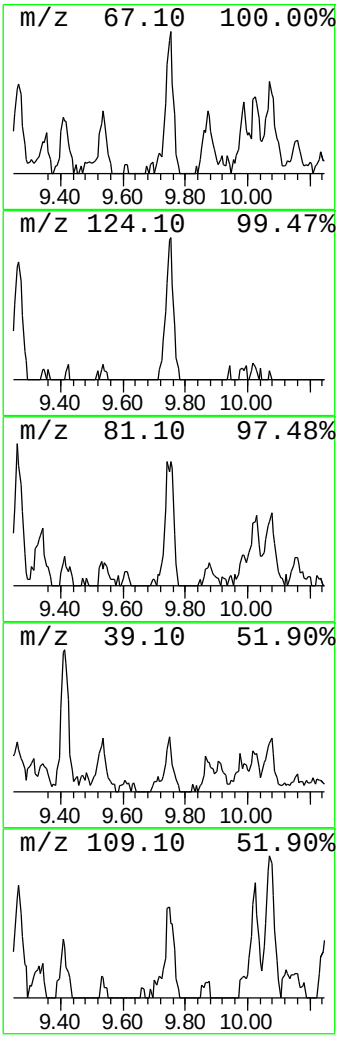
**********

Peak Number 21 4-Octyne, 2-methyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.75 | 5.11 ng/ul | 48602 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Octyne, 2-methyl- | 124 | C9H16 | 010306-94-2 | 58 |
| 2 | Cyclohexene, 4-propyl- | 124 | C9H16 | 013487-64-4 | 50 |
| 3 | Cyclohexanone, 3-ethenyl- | 124 | C8H12O | 001740-63-2 | 49 |
| 4 | 2-Cyclopenten-1-one, 3,4,4-trime... | 124 | C8H12O | 030434-65-2 | 47 |
| 5 | Cyclohexane, (1-methylethylidene)- | 124 | C9H16 | 005749-72-4 | 43 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

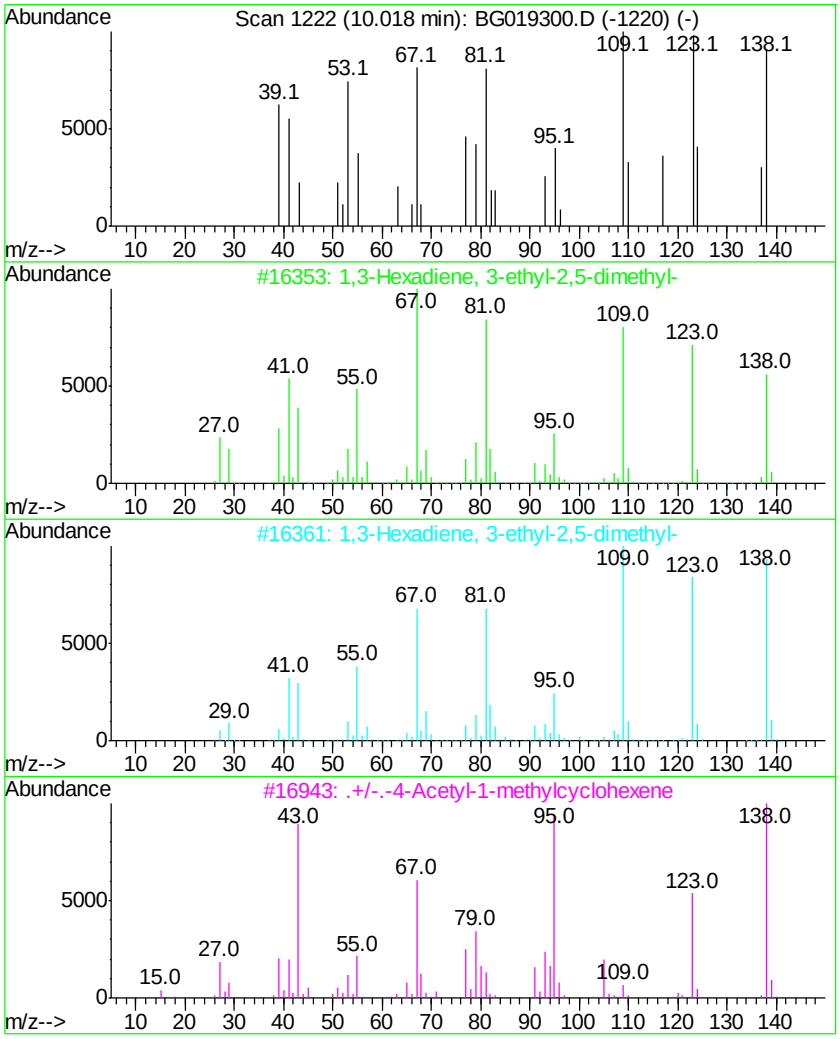
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

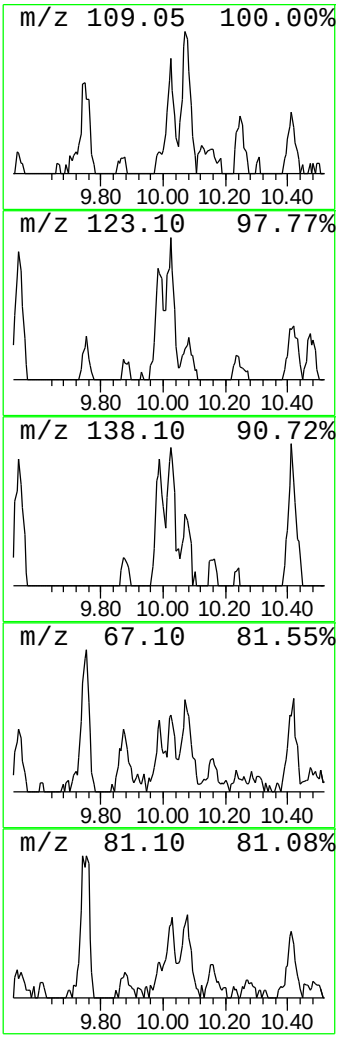
**********

Peak Number 22 1,3-Hexadiene, 3-ethyl-2,5-... Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.02 | 3.17 ng/ul | 30171 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Hexadiene, 3-ethyl-2,5-dimet... | 138 | C10H18 | 062338-07-2 | 74 |
| 2 | 1,3-Hexadiene, 3-ethyl-2,5-dimet... | 138 | C10H18 | 062338-07-2 | 52 |
| 3 | .+/-.-4-Acetyl-1-methylcyclohexene | 138 | C9H14O | 070286-20-3 | 46 |
| 4 | Benzene, 1,4-dimethoxy- | 138 | C8H10O2 | 000150-78-7 | 43 |
| 5 | Benzene, 1,4-dimethoxy- | 138 | C8H10O2 | 000150-78-7 | 43 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

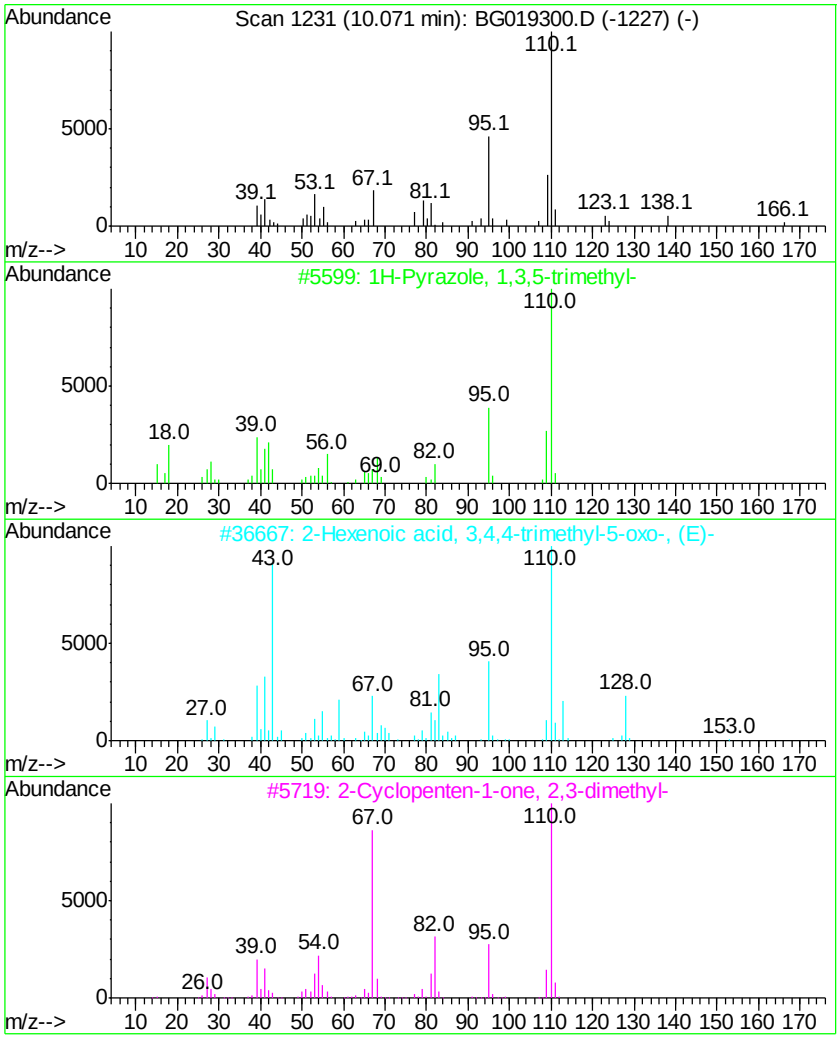
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

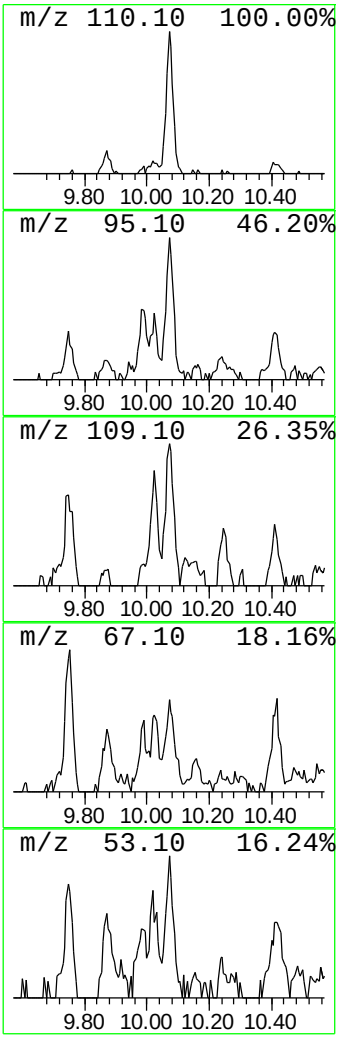
**********

Peak Number 23 1H-Pyrazole, 1,3,5-trimethyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.07 | 6.01 ng/ul | 57239 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Pyrazole, 1,3,5-trimethyl- | 110 | C6H10N2 | 001072-91-9 | 72 |
| 2 | 2-Hexenoic acid, 3,4,4-trimethyl... | 170 | C9H14O3 | 006994-95-2 | 59 |
| 3 | 2-Cyclopenten-1-one, 2,3-dimethyl- | 110 | C7H10O | 001121-05-7 | 53 |
| 4 | 11-Oxatricyclo[6.2.1.0(1,6)]unde... | 164 | C10H12O2 | 106247-65-8 | 45 |
| 5 | 2-Cyclohexen-1-one, 6-methyl-3-(... | 152 | C10H16O | 000499-74-1 | 45 |



# Library Search Compound Report

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Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

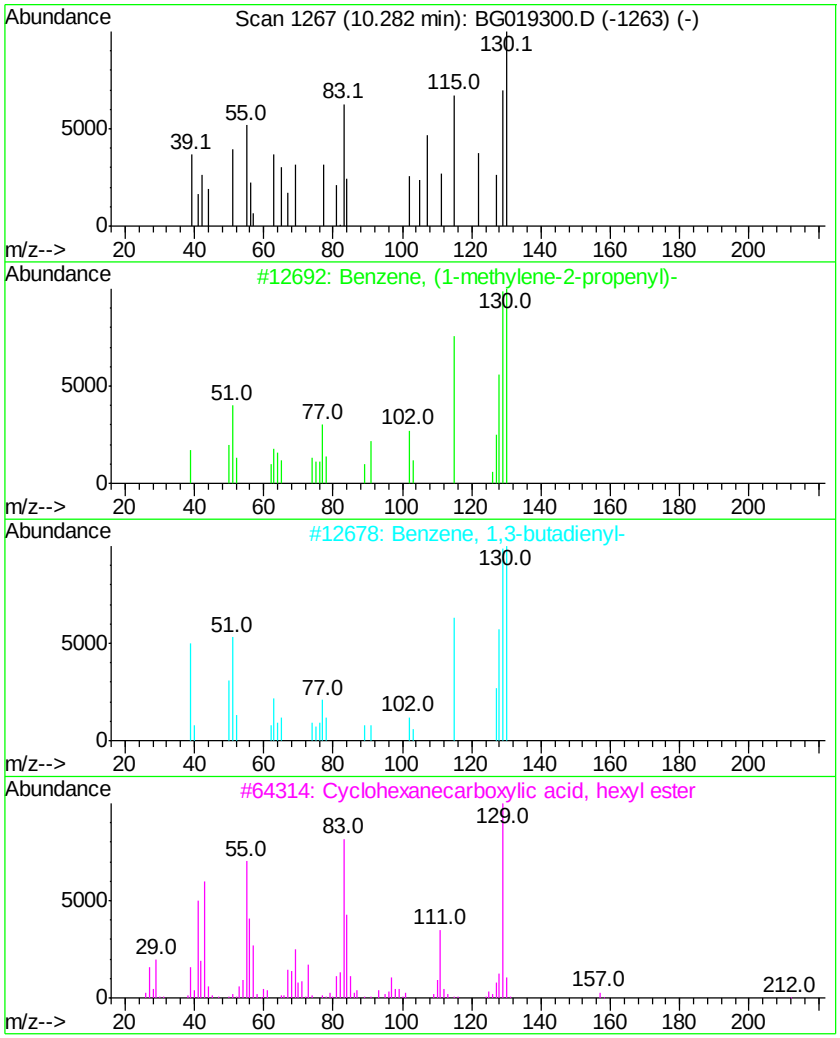
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

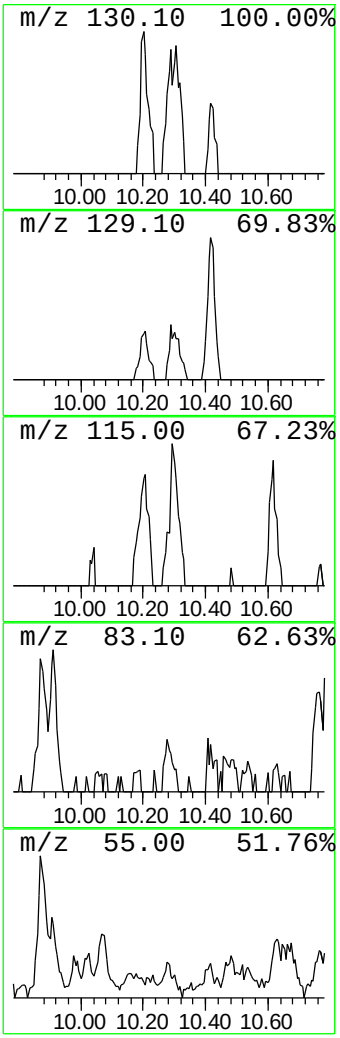
**********

Peak Number 24 unknown-04 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.28 | 2.05 ng/ul | 19519 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methylene-2-propenyl)- | 130 | C10H10 | 002288-18-8 | 43 |
| 2 | Benzene, 1,3-butadienyl- | 130 | C10H10 | 001515-78-2 | 35 |
| 3 | Cyclohexanecarboxylic acid, hexy... | 212 | C13H24O2 | 027948-10-3 | 22 |
| 4 | Benzene, (cyclopropylidenemethyl)- | 130 | C10H10 | 007555-67-1 | 16 |
| 5 | Benzene, 1-cyclobuten-1-yl- | 130 | C10H10 | 003365-26-2 | 12 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

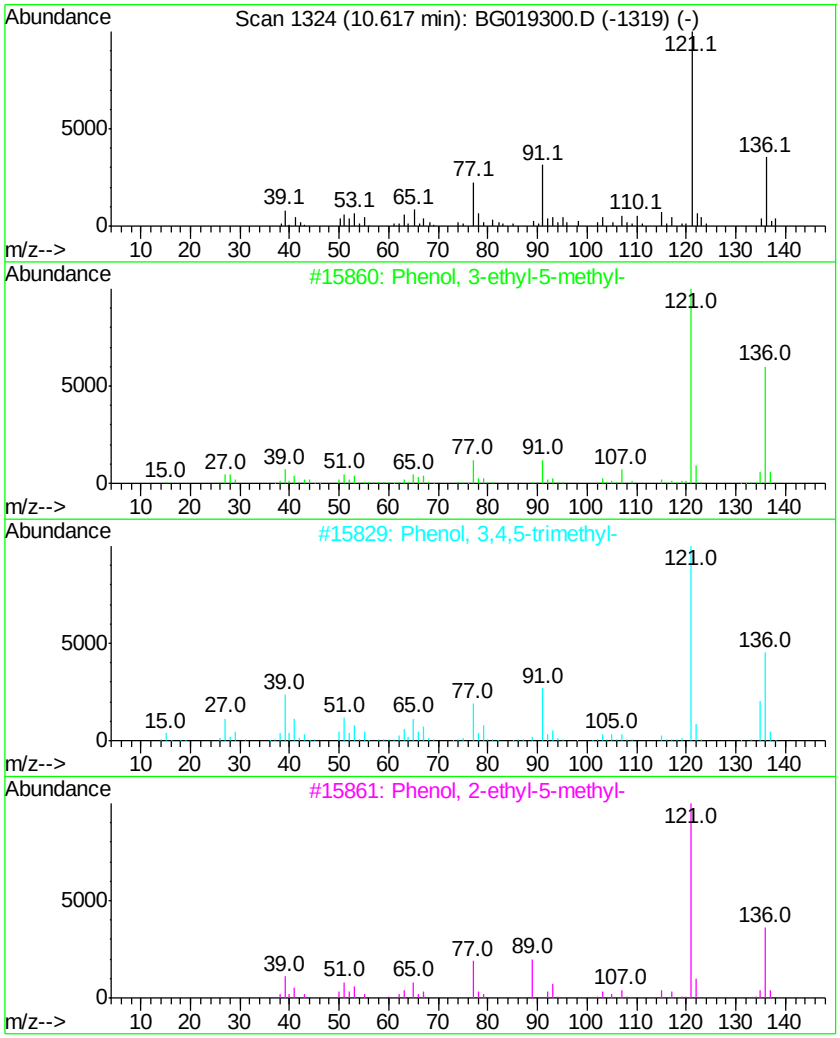
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

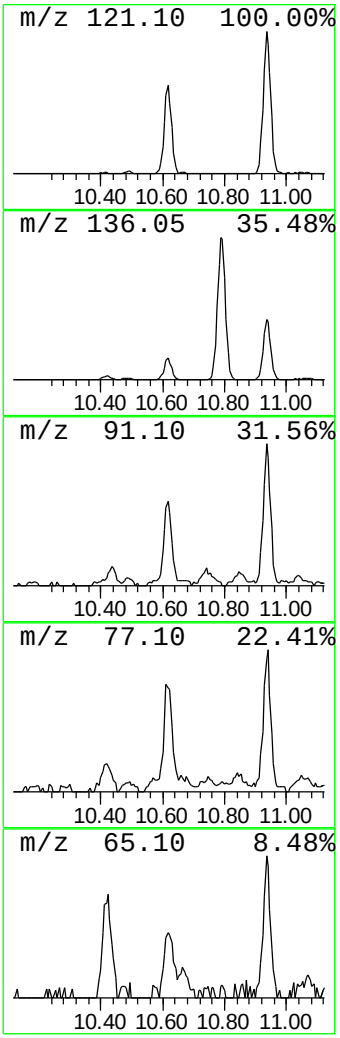
**********

Peak Number 25 Phenol, 3-ethyl-5-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.62 | 10.58 ng/ul | 100698 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3-ethyl-5-methyl- | 136 | C9H12O | 000698-71-5 | 83 |
| 2 | Phenol, 3,4,5-trimethyl- | 136 | C9H12O | 000527-54-8 | 74 |
| 3 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 74 |
| 4 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 74 |
| 5 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 72 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

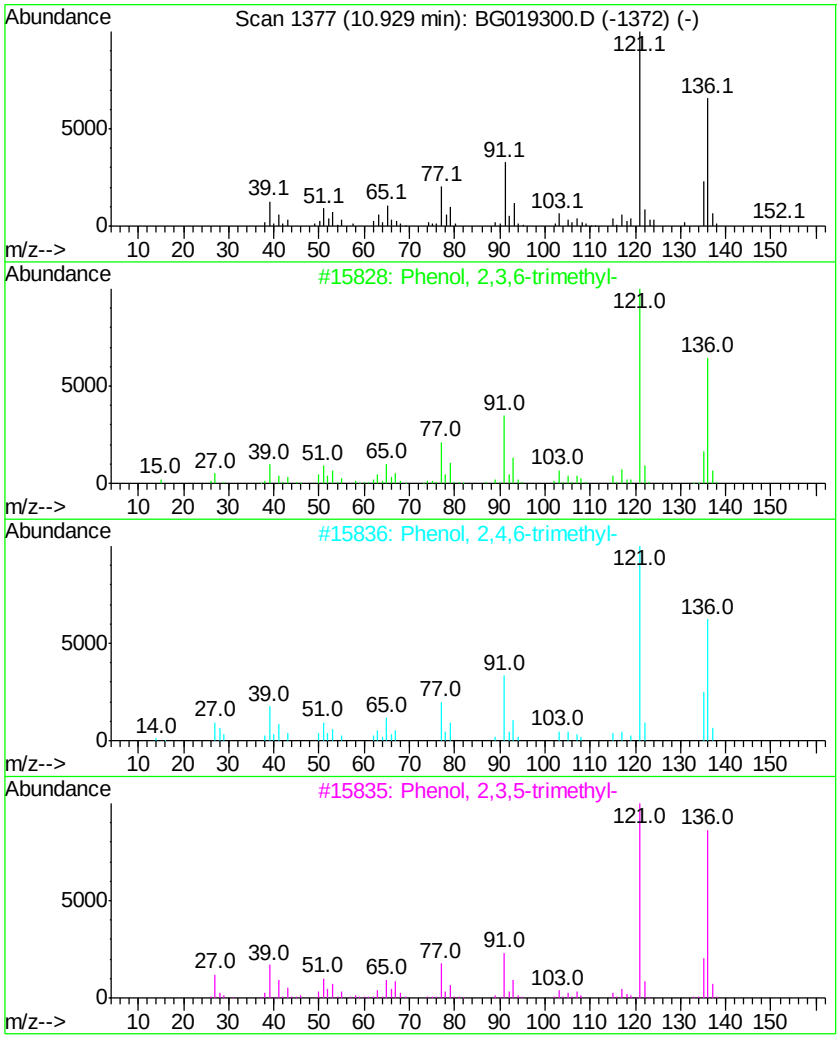
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

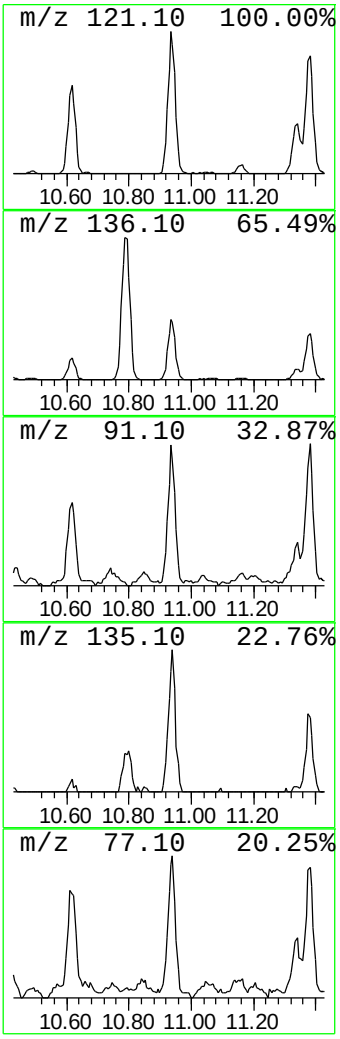
**********

Peak Number 26 Phenol, 2,3,6-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.93 | 20.34 ng/ul | 193593 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 97 |
| 2 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 96 |
| 3 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 95 |
| 4 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 91 |
| 5 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 91 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

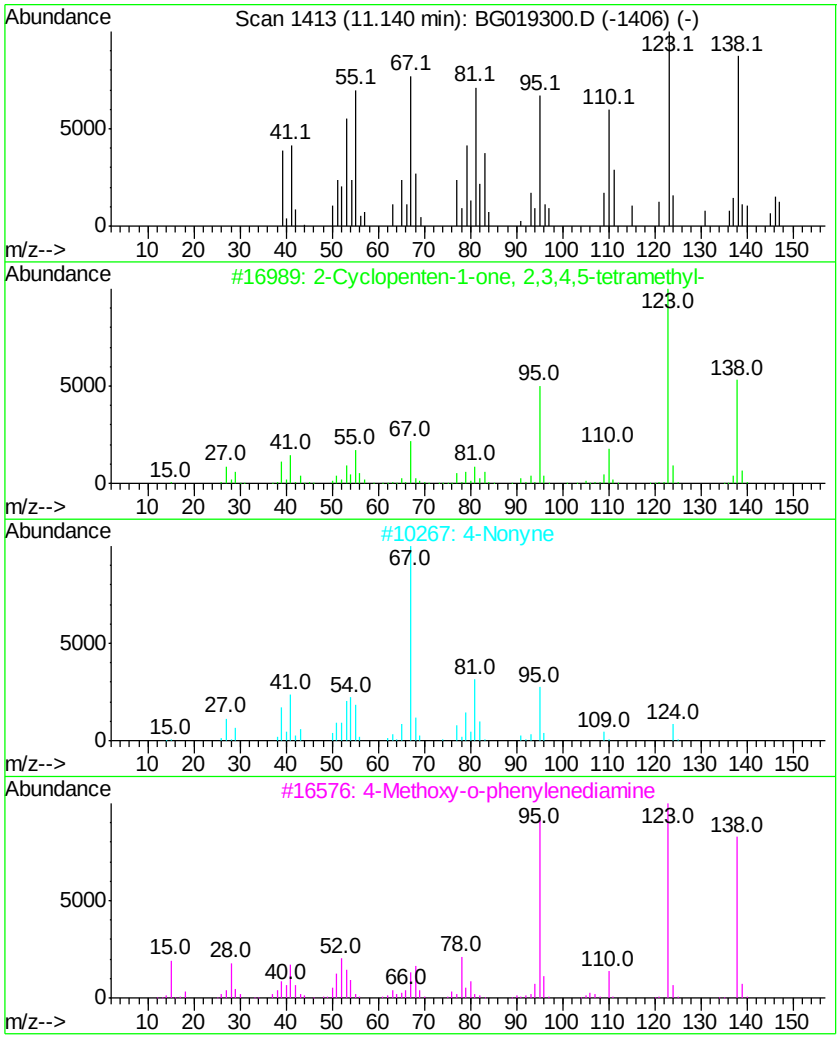
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

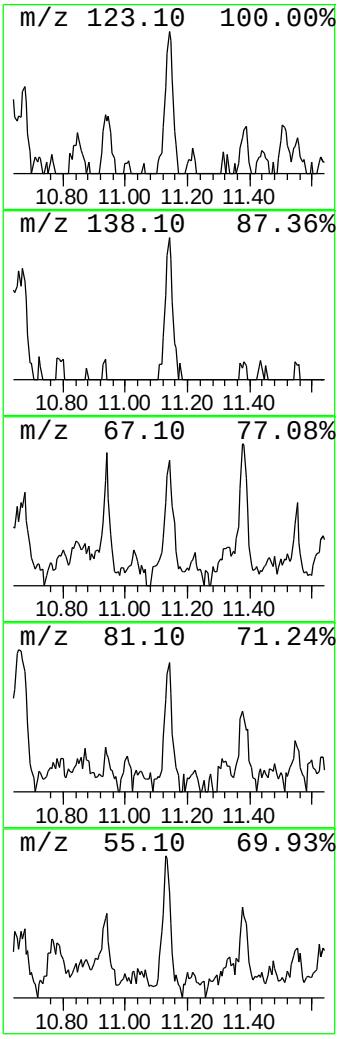
**********

Peak Number 27 2-Cyclopenten-1-one, 2,3,4,... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.14 | 5.79 ng/ul | 55159 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclopenten-1-one, 2,3,4,5-tet... | 138 | C9H14O | 054458-61-6 | 70 |
| 2 | 4-Nonyne | 124 | C9H16 | 020184-91-2 | 50 |
| 3 | 4-Methoxy-o-phenylenediamine | 138 | C7H10N2O | 000102-51-2 | 46 |
| 4 | 2-Methyl-2,3-divinyloxirane | 110 | C7H10O | 070597-50-1 | 45 |
| 5 | Cyclohexanone, 3-vinyl-3-methyl- | 138 | C9H14O | 068269-56-7 | 42 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

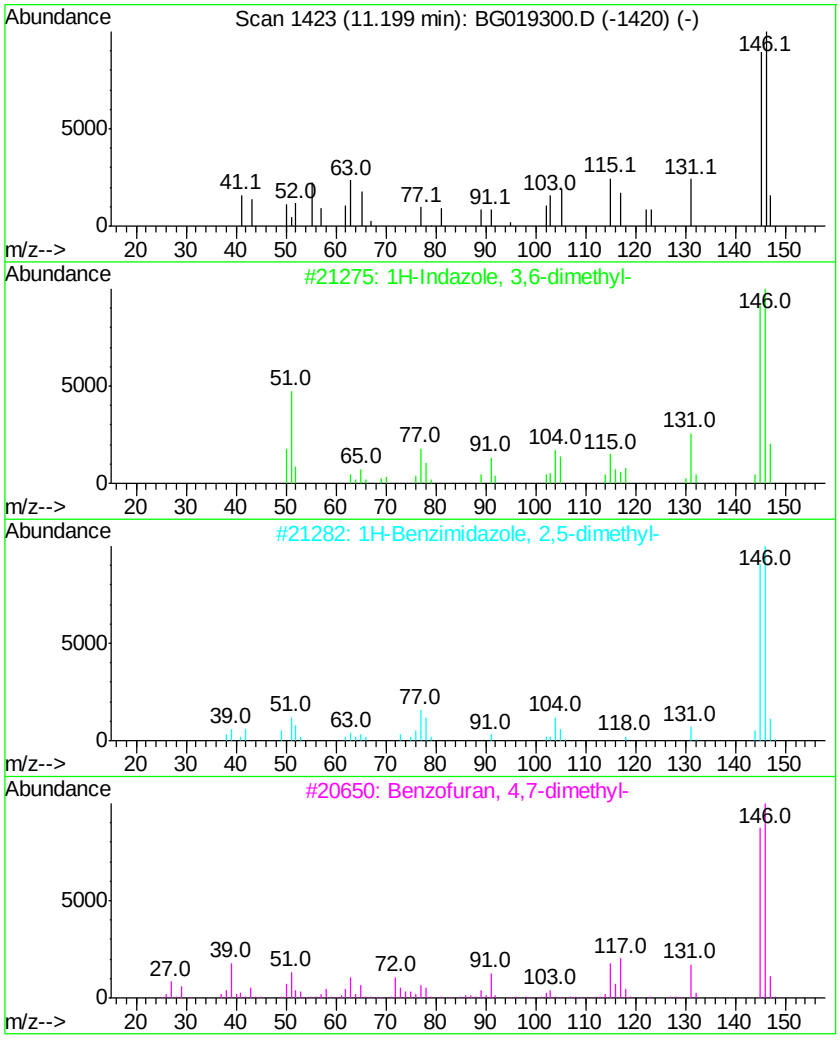
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

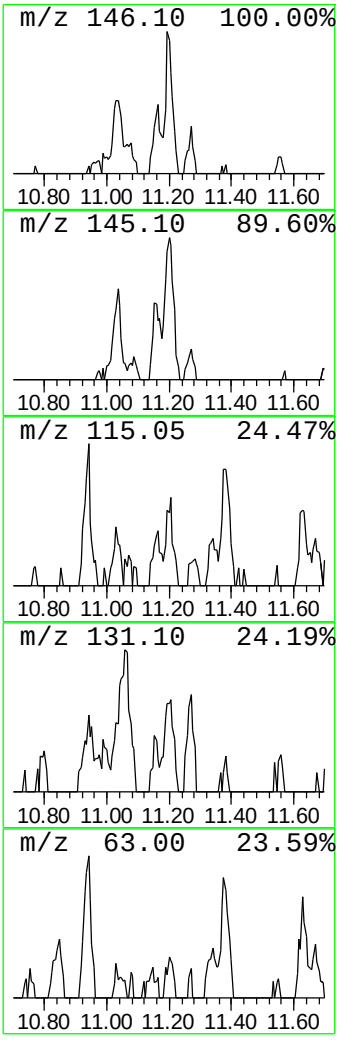
**********

Peak Number 28 1H-Indazole, 3,6-dimethyl- Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 2.85 ng/ul | 27143 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indazole, 3,6-dimethyl- | 146 | C9H10N2 | 007746-28-3 | 59 |
| 2 | 1H-Benzimidazole, 2,5-dimethyl- | 146 | C9H10N2 | 001792-41-2 | 47 |
| 3 | Benzofuran, 4,7-dimethyl- | 146 | C10H10O | 028715-26-6 | 40 |
| 4 | Cinnoline, 1,2-dihydro-2-methyl- | 146 | C9H10N2 | 054063-10-4 | 40 |
| 5 | 2H-Isoindole, 4,7-dimethyl- | 145 | C10H11N | 070187-62-1 | 16 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

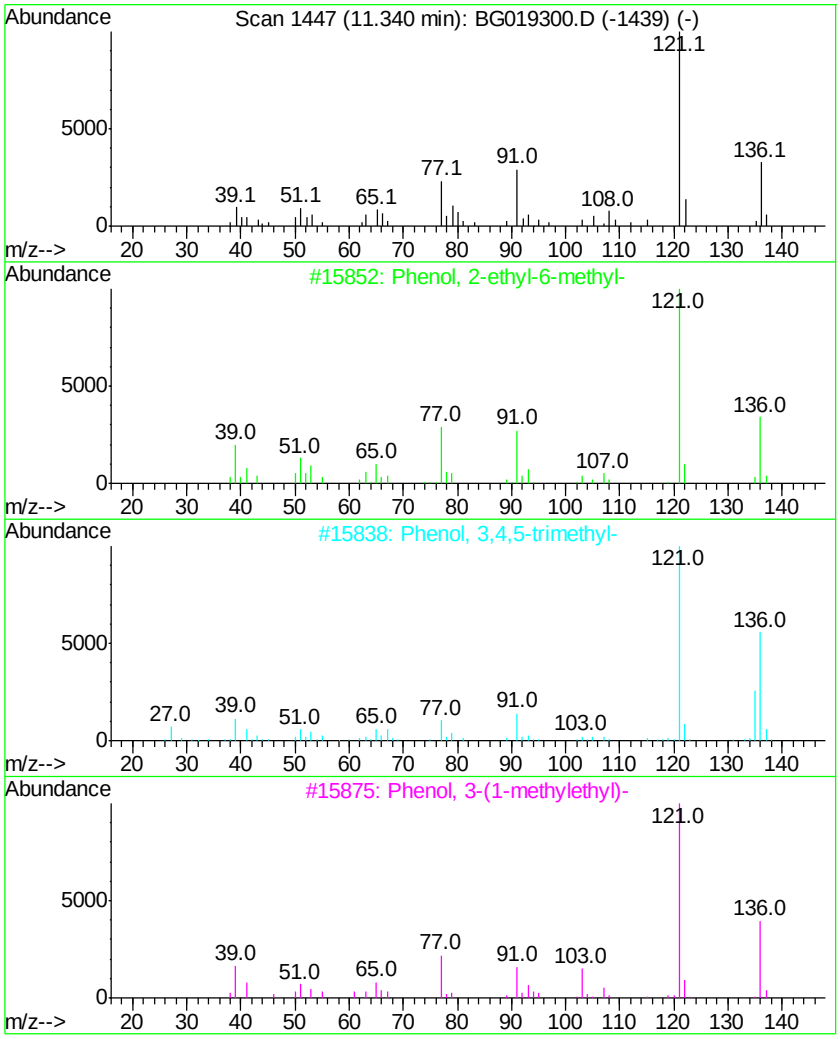
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

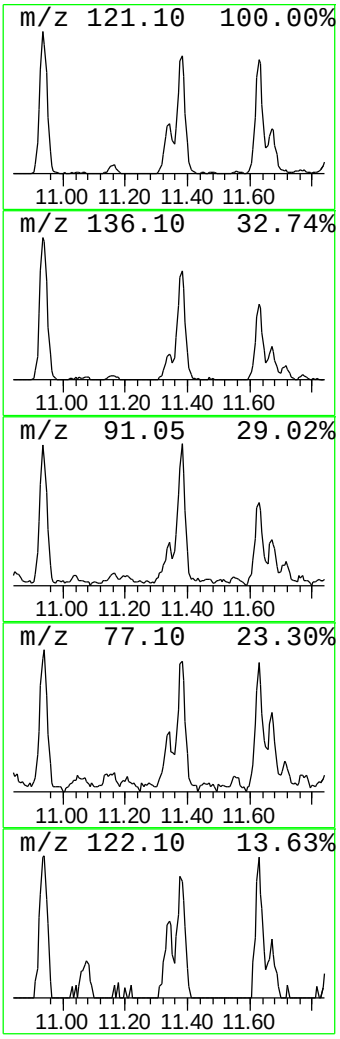
**********

Peak Number 29 Phenol, 2-ethyl-6-methyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.34 | 6.24 ng/ul | 59351 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-ethyl-6-methyl- | 136 | C9H12O | 001687-64-5 | 93 |
| 2 | Phenol, 3,4,5-trimethyl- | 136 | C9H12O | 000527-54-8 | 86 |
| 3 | Phenol, 3-(1-methylethyl)- | 136 | C9H12O | 000618-45-1 | 86 |
| 4 | Phenol, 3-(1-methylethyl)- | 136 | C9H12O | 000618-45-1 | 86 |
| 5 | Bicyclo[3.1.0]hex-2-ene, 4,4,6,6... | 136 | C10H16 | 019487-09-3 | 86 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

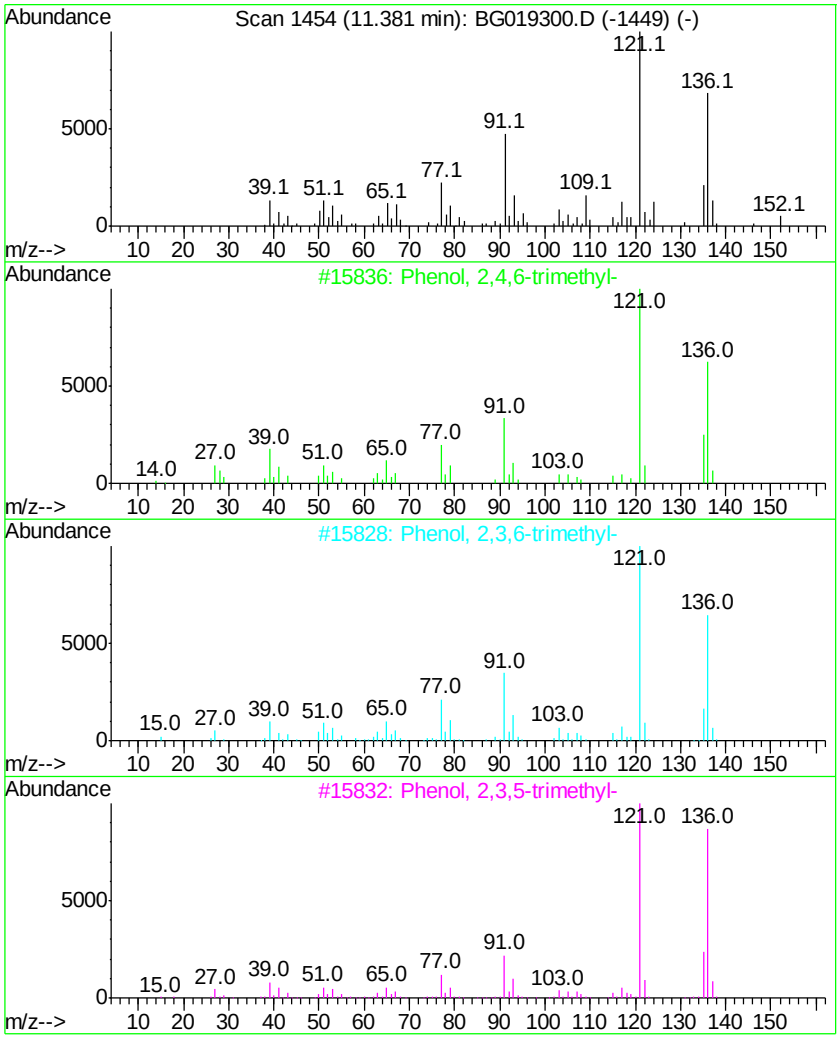
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

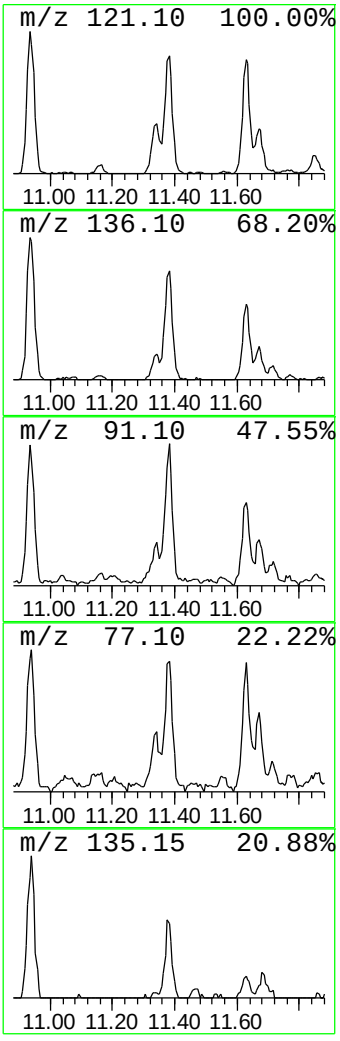
**********

Peak Number 30 Phenol, 2,4,6-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.38 | 18.59 ng/ul | 176965 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 94 |
| 2 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 91 |
| 3 | Phenol, 2,3,5-trimethyl- | 136 | C9H12O | 000697-82-5 | 81 |
| 4 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 81 |
| 5 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 81 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

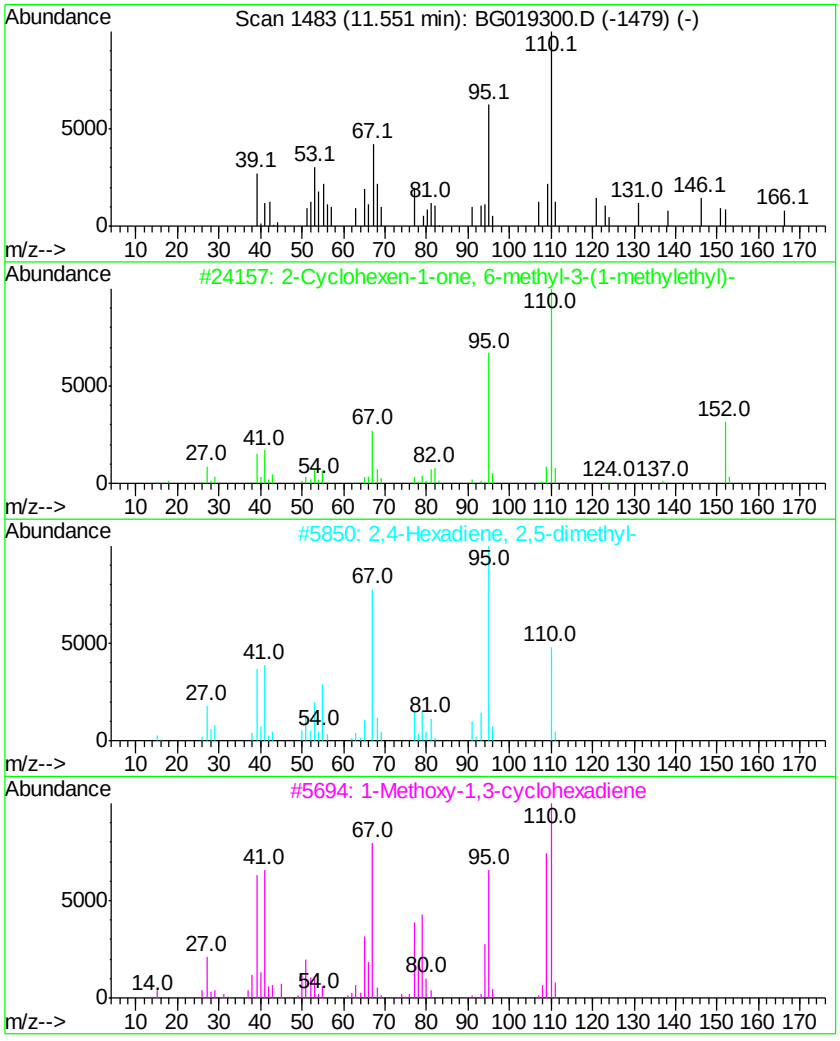
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

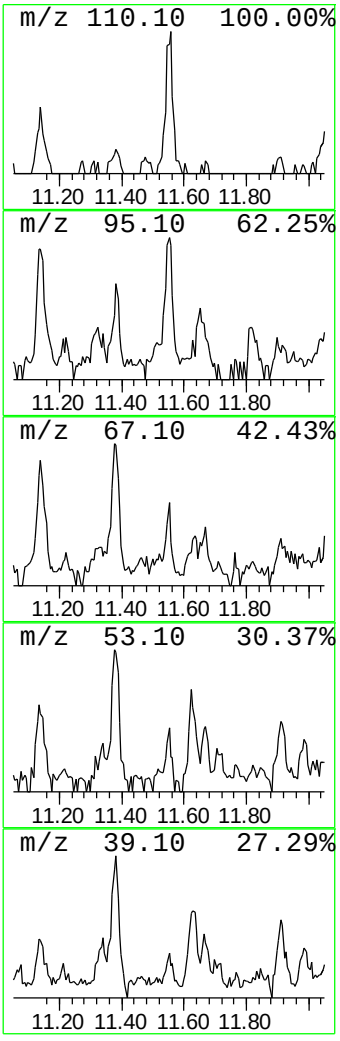
**********

Peak Number 31 2-Cyclohexen-1-one, 6-methy... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.55 | 2.78 ng/ul | 26499 | Naphthalene-d8 | 10.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclohexen-1-one, 6-methyl-3-(... | 152 | C10H16O | 000499-74-1 | 58 |
| 2 | 2,4-Hexadiene, 2,5-dimethyl- | 110 | C8H14 | 000764-13-6 | 53 |
| 3 | 1-Methoxy-1,3-cyclohexadiene | 110 | C7H10O | 002161-90-2 | 53 |
| 4 | Cyclobutene, 1,2,3,4-tetramethyl- | 110 | C8H14 | 090346-45-5 | 43 |
| 5 | 11-Oxatricyclo[6.2.1.0(1,6)]unde... | 164 | C10H12O2 | 106247-65-8 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG102115\
Data File : BG019300.D
Acq On : 22 Oct 2015 3:41
Operator : UM/NP
Sample : G4057-22
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ4

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 3.15 | 24.3 | ng/ul | 111886 | 1 | 7.99 | 91976 | 20.0 |
| 1,3-Cyclopentaned... | 6.62 | 2.1 | ng/ul | 9794 | 1 | 7.99 | 91976 | 20.0 |
| Cyclopentane, 1,2... | 7.39 | 5.8 | ng/ul | 26538 | 1 | 7.99 | 91976 | 20.0 |
| Cyclopentane, 2-i... | 7.72 | 2.5 | ng/ul | 11248 | 1 | 7.99 | 91976 | 20.0 |
| (DEL) Alkane: Str... | 7.80 | 5.2 | ng/ul | 23708 | 1 | 7.99 | 91976 | 20.0 |
| 2,4-Hexadiene, (E... | 8.26 | 4.0 | ng/ul | 18633 | 1 | 7.99 | 91976 | 20.0 |
| Cyclopentanone, 2... | 8.29 | 9.8 | ng/ul | 45233 | 1 | 7.99 | 91976 | 20.0 |
| unknown-01 | 8.37 | 5.1 | ng/ul | 23316 | 1 | 7.99 | 91976 | 20.0 |
| Indene | 8.52 | 2.1 | ng/ul | 9569 | 1 | 7.99 | 91976 | 20.0 |
| 2-Cyclopenten-1-o... | 8.63 | 15.4 | ng/ul | 70789 | 1 | 7.99 | 91976 | 20.0 |
| Cyclooctanone, 2-... | 8.95 | 7.0 | ng/ul | 32151 | 1 | 7.99 | 91976 | 20.0 |
| unknown-02 | 9.01 | 3.6 | ng/ul | 16489 | 1 | 7.99 | 91976 | 20.0 |
| unknown-03 | 9.05 | 10.3 | ng/ul | 47204 | 1 | 7.99 | 91976 | 20.0 |
| Ethanone, 1-(1-cy... | 9.09 | 15.3 | ng/ul | 70199 | 1 | 7.99 | 91976 | 20.0 |
| Cyclohexane, (1-m... | 9.26 | 10.9 | ng/ul | 50050 | 1 | 7.99 | 91976 | 20.0 |
| Acetaldehyde, 2-b... | 9.31 | 3.2 | ng/ul | 14760 | 1 | 7.99 | 91976 | 20.0 |
| o-Fluoroacetophenone | 9.35 | 6.1 | ng/ul | 28080 | 1 | 7.99 | 91976 | 20.0 |
| Phenol, 2,6-dimet... | 9.41 | 24.6 | ng/ul | 234060 | 2 | 10.79 | 190379 | 20.0 |
| Benzofuran, 2-met... | 9.53 | 8.4 | ng/ul | 80119 | 2 | 10.79 | 190379 | 20.0 |
| 4-Octyne, 2-methyl- | 9.75 | 5.1 | ng/ul | 48602 | 2 | 10.79 | 190379 | 20.0 |
| 1,3-Hexadiene, 3-... | 10.02 | 3.2 | ng/ul | 30171 | 2 | 10.79 | 190379 | 20.0 |
| 1H-Pyrazole, 1,3,... | 10.07 | 6.0 | ng/ul | 57239 | 2 | 10.79 | 190379 | 20.0 |
| unknown-04 | 10.28 | 2.0 | ng/ul | 19519 | 2 | 10.79 | 190379 | 20.0 |
| Phenol, 3-ethyl-5... | 10.62 | 10.6 | ng/ul | 100698 | 2 | 10.79 | 190379 | 20.0 |
| Phenol, 2,3,6-tri... | 10.93 | 20.3 | ng/ul | 193593 | 2 | 10.79 | 190379 | 20.0 |
| 2-Cyclopenten-1-o... | 11.14 | 5.8 | ng/ul | 55159 | 2 | 10.79 | 190379 | 20.0 |
| 1H-Indazole, 3,6-... | 11.20 | 2.9 | ng/ul | 27143 | 2 | 10.79 | 190379 | 20.0 |
| Phenol, 2-ethyl-6... | 11.34 | 6.2 | ng/ul | 59351 | 2 | 10.79 | 190379 | 20.0 |
| Phenol, 2,4,6-tri... | 11.38 | 18.6 | ng/ul | 176965 | 2 | 10.79 | 190379 | 20.0 |
| 2-Cyclohexen-1-on... | 11.55 | 2.8 | ng/ul | 26499 | 2 | 10.79 | 190379 | 20.0 |