LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

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-BG102315.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 | 3.208 | 56 | 63 | 72 | rBV2 | 31848 | 63853 | 6.15% | 0.291% |
| 2 | 3.290 | 72 | 77 | 93 | rVB | 105136 | 150087 | 14.46% | 0.684% |
| 3 | 7.373 | 766 | 772 | 778 | rVV2 | 21819 | 39323 | 3.79% | 0.179% |
| 4 | 7.550 | 796 | 802 | 810 | rBV | 61589 | 103171 | 9.94% | 0.470% |
| 5 | 7.632 | 810 | 816 | 823 | rVV3 | 34693 | 59201 | 5.70% | 0.270% |
| 6 | 7.726 | 823 | 832 | 833 | rVV4 | 24901 | 44578 | 4.30% | 0.203% |
| 7 | 7.761 | 834 | 838 | 846 | rVB | 67648 | 126971 | 12.23% | 0.579% |
| 8 | 7.879 | 854 | 858 | 863 | rVB3 | 19193 | 30816 | 2.97% | 0.140% |
| 9 | 7.967 | 866 | 873 | 878 | rBV4 | 13432 | 26409 | 2.54% | 0.120% |
| 10 | 8.055 | 882 | 888 | 894 | rVB4 | 29138 | 54993 | 5.30% | 0.251% |
| 11 | 8.237 | 913 | 919 | 926 | rVV | 140500 | 237616 | 22.89% | 1.083% |
| 12 | 8.507 | 955 | 965 | 969 | rVV | 116104 | 218261 | 21.03% | 0.995% |
| 13 | 8.549 | 969 | 972 | 980 | rVB2 | 63089 | 97116 | 9.36% | 0.443% |
| 14 | 8.625 | 980 | 985 | 995 | rBV8 | 20041 | 52866 | 5.09% | 0.241% |
| 15 | 8.784 | 1007 | 1012 | 1019 | rVB6 | 17161 | 35300 | 3.40% | 0.161% |
| 16 | 8.883 | 1022 | 1029 | 1033 | rBV | 91899 | 162771 | 15.68% | 0.742% |
| 17 | 8.930 | 1034 | 1037 | 1044 | rVB2 | 59255 | 95876 | 9.24% | 0.437% |
| 18 | 9.212 | 1076 | 1085 | 1091 | rBV3 | 39739 | 69418 | 6.69% | 0.316% |
| 19 | 9.271 | 1091 | 1095 | 1098 | rVV4 | 18807 | 28704 | 2.77% | 0.131% |
| 20 | 9.324 | 1098 | 1104 | 1106 | rVV4 | 59022 | 112156 | 10.81% | 0.511% |
| 21 | 9.353 | 1106 | 1109 | 1113 | rVV2 | 79311 | 129495 | 12.48% | 0.590% |
| 22 | 9.406 | 1113 | 1118 | 1124 | rVB | 84308 | 153585 | 14.80% | 0.700% |
| 23 | 9.518 | 1131 | 1137 | 1142 | rBV5 | 62943 | 121864 | 11.74% | 0.555% |
| 24 | 9.571 | 1143 | 1146 | 1149 | rVV3 | 24022 | 42747 | 4.12% | 0.195% |
| 25 | 9.606 | 1149 | 1152 | 1157 | rVV4 | 35771 | 65643 | 6.32% | 0.299% |
| 26 | 9.665 | 1157 | 1162 | 1169 | rVV | 282258 | 495270 | 47.72% | 2.257% |
| 27 | 9.724 | 1169 | 1172 | 1178 | rVV5 | 31497 | 71814 | 6.92% | 0.327% |
| 28 | 9.794 | 1179 | 1184 | 1194 | rVB2 | 91016 | 172383 | 16.61% | 0.786% |
| 29 | 10.012 | 1215 | 1221 | 1228 | rVB2 | 87360 | 158055 | 15.23% | 0.720% |
| 30 | 10.135 | 1236 | 1242 | 1247 | rBV2 | 114731 | 226816 | 21.85% | 1.034% |
| 31 | 10.217 | 1250 | 1256 | 1261 | rVB | 386788 | 657444 | 63.34% | 2.996% |
| 32 | 10.294 | 1266 | 1269 | 1273 | rVV3 | 40394 | 70647 | 6.81% | 0.322% |
| 33 | 10.341 | 1273 | 1277 | 1284 | rVB2 | 67954 | 121524 | 11.71% | 0.554% |
| 34 | 10.517 | 1301 | 1307 | 1313 | rBV | 226742 | 369410 | 35.59% | 1.683% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

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-BG102315.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.670 | 1327 | 1333 | 1342 | rBV2 | 142491 | 293124 | 28.24% | 1.336% |
| 36 | 10.752 | 1342 | 1347 | 1352 | rVB8 | 20208 | 37425 | 3.61% | 0.171% |
| 37 | 10.875 | 1363 | 1368 | 1375 | rBV | 105042 | 207297 | 19.97% | 0.945% |
| 38 | 11.069 | 1395 | 1401 | 1406 | rVB | 169168 | 293327 | 28.26% | 1.337% |
| 39 | 11.198 | 1417 | 1423 | 1431 | rVB | 227454 | 415433 | 40.03% | 1.893% |
| 40 | 11.316 | 1437 | 1443 | 1452 | rVB6 | 46630 | 104393 | 10.06% | 0.476% |
| 41 | 11.410 | 1452 | 1459 | 1466 | rBV3 | 150927 | 262706 | 25.31% | 1.197% |
| 42 | 11.475 | 1466 | 1470 | 1476 | rVB5 | 27056 | 53934 | 5.20% | 0.246% |
| 43 | 11.586 | 1483 | 1489 | 1494 | rVV | 290264 | 494547 | 47.65% | 2.254% |
| 44 | 11.645 | 1494 | 1499 | 1507 | rVB | 224141 | 402293 | 38.76% | 1.833% |
| 45 | 11.733 | 1507 | 1514 | 1520 | rBV10 | 13201 | 35802 | 3.45% | 0.163% |
| 46 | 11.815 | 1524 | 1528 | 1532 | rVV4 | 28058 | 46950 | 4.52% | 0.214% |
| 47 | 11.874 | 1532 | 1538 | 1543 | rVV | 567889 | 916200 | 88.28% | 4.175% |
| 48 | 11.921 | 1543 | 1546 | 1552 | rVV | 79943 | 135950 | 13.10% | 0.620% |
| 49 | 11.980 | 1552 | 1556 | 1562 | rVB3 | 25685 | 42436 | 4.09% | 0.193% |
| 50 | 12.115 | 1573 | 1579 | 1582 | rBV4 | 60188 | 111254 | 10.72% | 0.507% |
| 51 | 12.150 | 1582 | 1585 | 1590 | rVB | 88417 | 126039 | 12.14% | 0.574% |
| 52 | 12.238 | 1596 | 1600 | 1605 | rBV | 50249 | 73287 | 7.06% | 0.334% |
| 53 | 12.444 | 1630 | 1635 | 1641 | rVB | 54574 | 78864 | 7.60% | 0.359% |
| 54 | 12.544 | 1648 | 1652 | 1655 | rBV3 | 28861 | 52709 | 5.08% | 0.240% |
| 55 | 12.591 | 1657 | 1660 | 1663 | rVV2 | 25670 | 35320 | 3.40% | 0.161% |
| 56 | 12.732 | 1678 | 1684 | 1691 | rBV4 | 249361 | 533453 | 51.40% | 2.431% |
| 57 | 12.867 | 1703 | 1707 | 1711 | rVB | 45127 | 61035 | 5.88% | 0.278% |
| 58 | 12.914 | 1711 | 1715 | 1726 | rVB7 | 85740 | 157945 | 15.22% | 0.720% |
| 59 | 13.002 | 1726 | 1730 | 1734 | rBV2 | 95631 | 157585 | 15.18% | 0.718% |
| 60 | 13.049 | 1734 | 1738 | 1746 | rVV2 | 174407 | 363552 | 35.03% | 1.657% |
| 61 | 13.120 | 1747 | 1750 | 1758 | rVB3 | 120822 | 205253 | 19.78% | 0.935% |
| 62 | 13.225 | 1761 | 1768 | 1772 | rBV6 | 220275 | 431447 | 41.57% | 1.966% |
| 63 | 13.272 | 1772 | 1776 | 1781 | rVB3 | 239745 | 397385 | 38.29% | 1.811% |
| 64 | 13.331 | 1781 | 1786 | 1789 | rBV4 | 69972 | 117671 | 11.34% | 0.536% |
| 65 | 13.455 | 1801 | 1807 | 1812 | rBV8 | 20644 | 46662 | 4.50% | 0.213% |
| 66 | 13.537 | 1816 | 1821 | 1824 | rBV3 | 29388 | 59335 | 5.72% | 0.270% |
| 67 | 13.719 | 1848 | 1852 | 1858 | rVV6 | 57466 | 131766 | 12.70% | 0.600% |
| 68 | 13.772 | 1858 | 1861 | 1865 | rVV5 | 42233 | 79621 | 7.67% | 0.363% |
| 69 | 13.825 | 1865 | 1870 | 1876 | rVB | 174182 | 307740 | 29.65% | 1.402% |
| 70 | 13.989 | 1894 | 1898 | 1901 | rBV2 | 121424 | 170879 | 16.46% | 0.779% |
| 71 | 14.030 | 1901 | 1905 | 1912 | rVB4 | 126116 | 228970 | 22.06% | 1.043% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

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-BG102315.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.113 | 1917 | 1919 | 1924 | rVB4 | 75986 | 99282 | 9.57% | 0.452% |
| 73 | 14.183 | 1927 | 1931 | 1935 | rBV5 | 64742 | 128083 | 12.34% | 0.584% |
| 74 | 14.254 | 1940 | 1943 | 1948 | rVB | 252579 | 365882 | 35.25% | 1.667% |
| 75 | 14.342 | 1953 | 1958 | 1968 | rBV5 | 168457 | 351176 | 33.84% | 1.600% |
| 76 | 14.430 | 1968 | 1973 | 1977 | rBV4 | 92434 | 181857 | 17.52% | 0.829% |
| 77 | 14.553 | 1989 | 1994 | 2001 | rVB | 253129 | 399409 | 38.48% | 1.820% |
| 78 | 14.671 | 2011 | 2014 | 2017 | rBV5 | 30003 | 34362 | 3.31% | 0.157% |
| 79 | 14.712 | 2017 | 2021 | 2025 | rBV3 | 54594 | 99219 | 9.56% | 0.452% |
| 80 | 14.859 | 2040 | 2046 | 2052 | rBV2 | 386267 | 705187 | 67.94% | 3.214% |
| 81 | 14.912 | 2052 | 2055 | 2060 | rVB2 | 142442 | 207370 | 19.98% | 0.945% |
| 82 | 15.029 | 2068 | 2075 | 2083 | rVB3 | 208553 | 454687 | 43.81% | 2.072% |
| 83 | 15.135 | 2090 | 2093 | 2096 | rBV2 | 37873 | 53247 | 5.13% | 0.243% |
| 84 | 15.223 | 2106 | 2108 | 2112 | rVB | 49502 | 59650 | 5.75% | 0.272% |
| 85 | 15.623 | 2172 | 2176 | 2181 | rBV6 | 46821 | 81101 | 7.81% | 0.370% |
| 86 | 15.769 | 2198 | 2201 | 2204 | rBV2 | 38897 | 51916 | 5.00% | 0.237% |
| 87 | 15.840 | 2209 | 2213 | 2219 | rVB | 318906 | 492119 | 47.42% | 2.243% |
| 88 | 15.940 | 2226 | 2230 | 2237 | rVB4 | 163136 | 298894 | 28.80% | 1.362% |
| 89 | 16.081 | 2252 | 2254 | 2263 | rVB4 | 58065 | 117300 | 11.30% | 0.535% |
| 90 | 16.263 | 2281 | 2285 | 2289 | rVB | 62416 | 83465 | 8.04% | 0.380% |
| 91 | 16.880 | 2386 | 2390 | 2394 | rBV6 | 40613 | 66604 | 6.42% | 0.304% |
| 92 | 17.597 | 2506 | 2512 | 2522 | rBV | 504965 | 778925 | 75.05% | 3.550% |
| 93 | 17.691 | 2524 | 2528 | 2534 | rBV | 385406 | 577076 | 55.60% | 2.630% |
| 94 | 18.460 | 2655 | 2659 | 2665 | rBV2 | 69829 | 101706 | 9.80% | 0.464% |
| 95 | 19.307 | 2799 | 2803 | 2809 | rBV | 233896 | 292186 | 28.15% | 1.332% |
| 96 | 19.718 | 2870 | 2873 | 2877 | rVB2 | 57238 | 72282 | 6.96% | 0.329% |
| 97 | 19.965 | 2909 | 2915 | 2920 | rVB | 517328 | 761057 | 73.33% | 3.468% |
| 98 | 21.880 | 3235 | 3241 | 3249 | rVB | 606779 | 1037883 | 100.00% | 4.730% |
| 99 | 25.029 | 3770 | 3777 | 3790 | rVB | 262510 | 755897 | 72.83% | 3.445% |
| 100 | 25.270 | 3809 | 3818 | 3831 | rVB2 | 314613 | 899429 | 86.66% | 4.099% |

Sum of corrected areas: 21943023

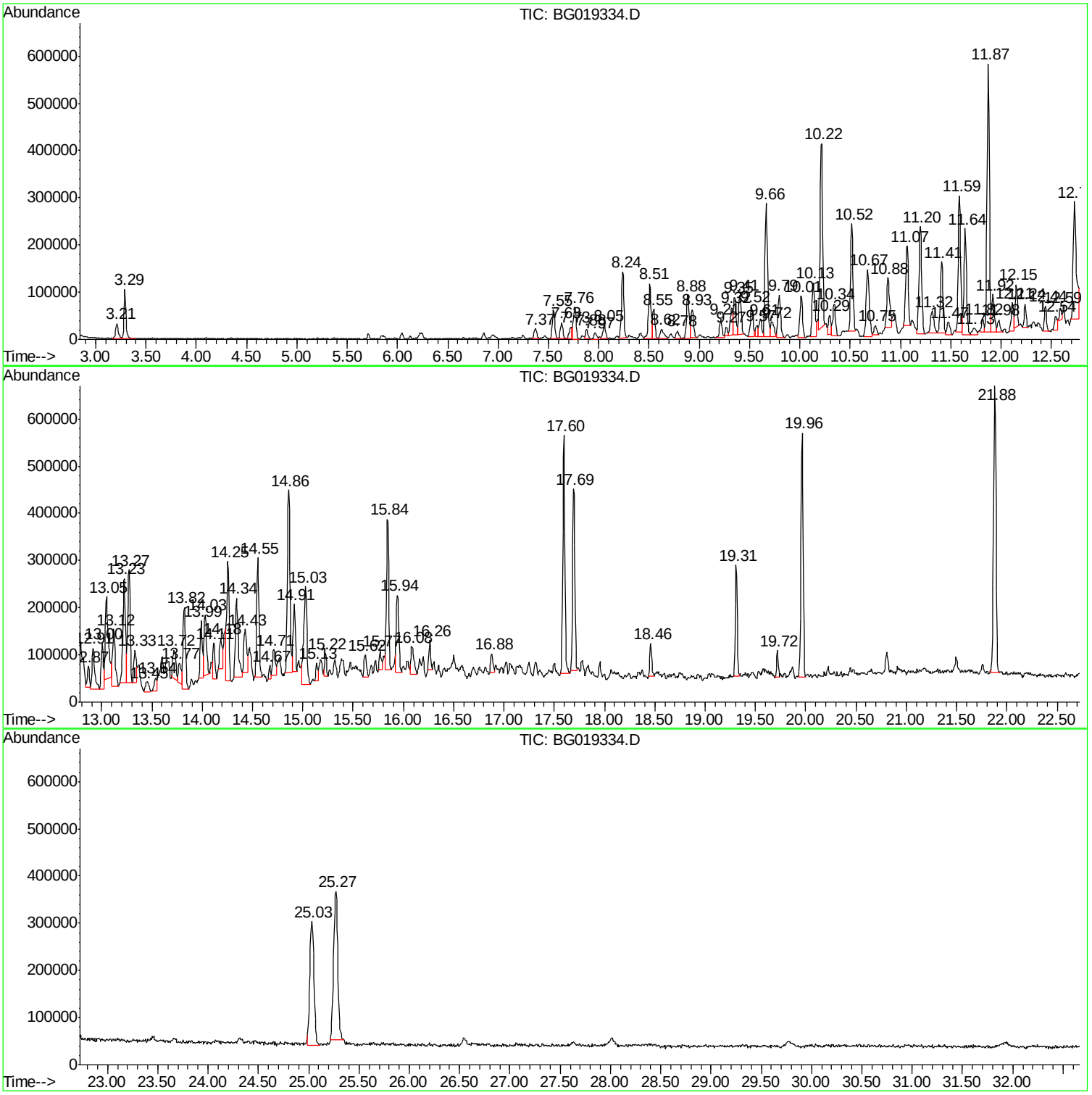
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

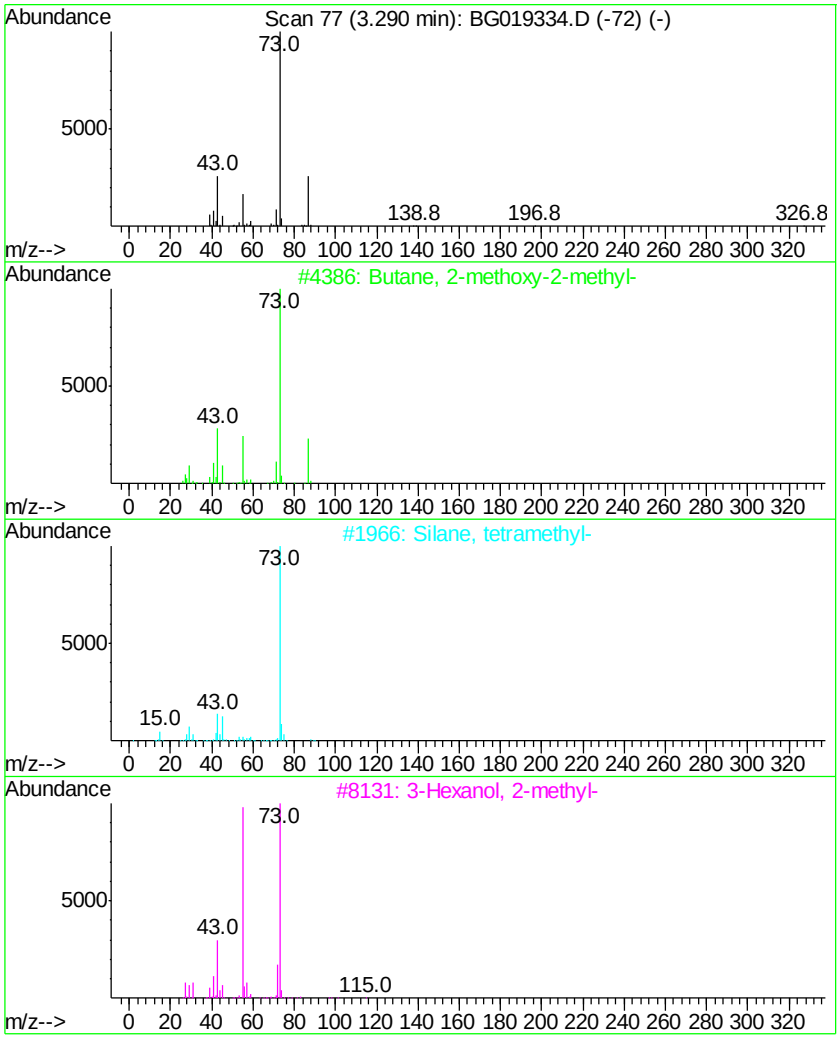
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

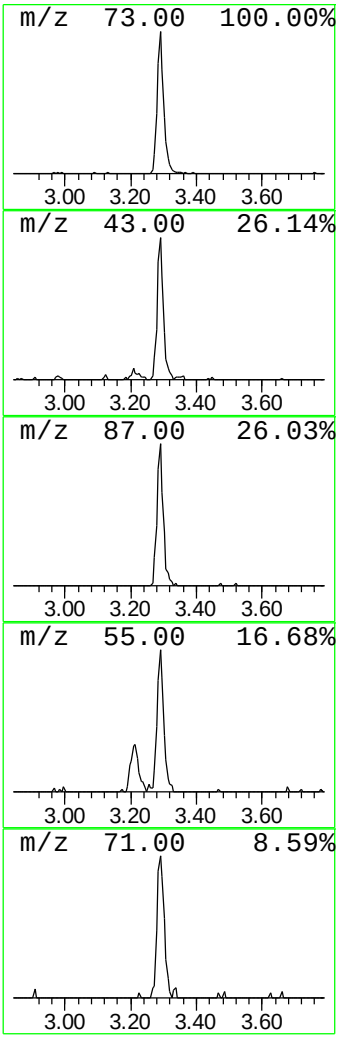
**********

Peak Number 2 unknown-01 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.29 | 12.63 ng/ul | 150087 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 43 |
| 2 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 27 |
| 3 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 23 |
| 4 | 1-Cyclohexyl-3-ethoxy-butan-2-one | 198 | C12H22O2 | 074897-69-1 | 10 |
| 5 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

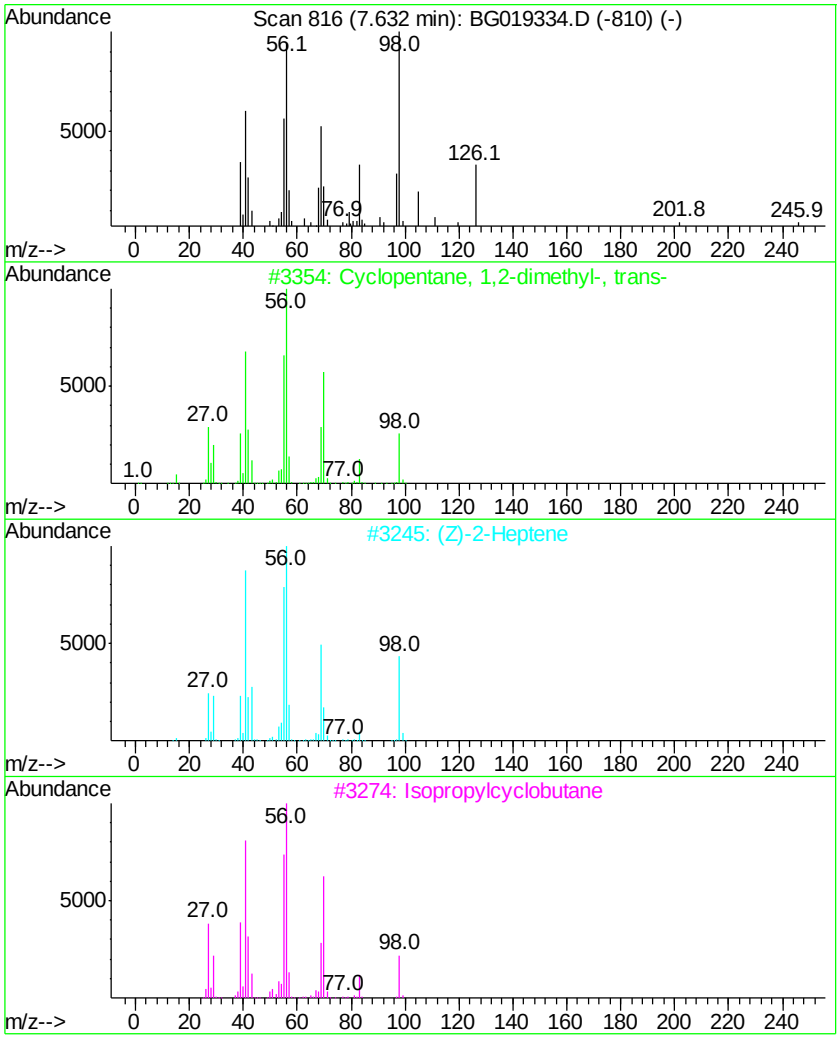
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

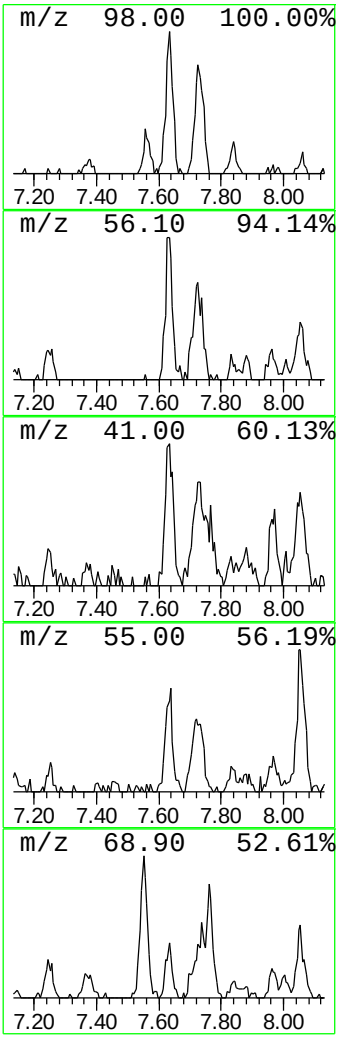
**********

Peak Number 3 Cyclopentane, 1,2-dimethyl-... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.63 | 4.98 ng/ul | 59201 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 58 |
| 2 | (Z)-2-Heptene | 98 | C7H14 | 006443-92-1 | 52 |
| 3 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 52 |
| 4 | (Z)-Hex-2-ene, 5-methyl- | 98 | C7H14 | 013151-17-2 | 47 |
| 5 | Cyclopentanone, 3-methyl- | 98 | C6H10O | 001757-42-2 | 47 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

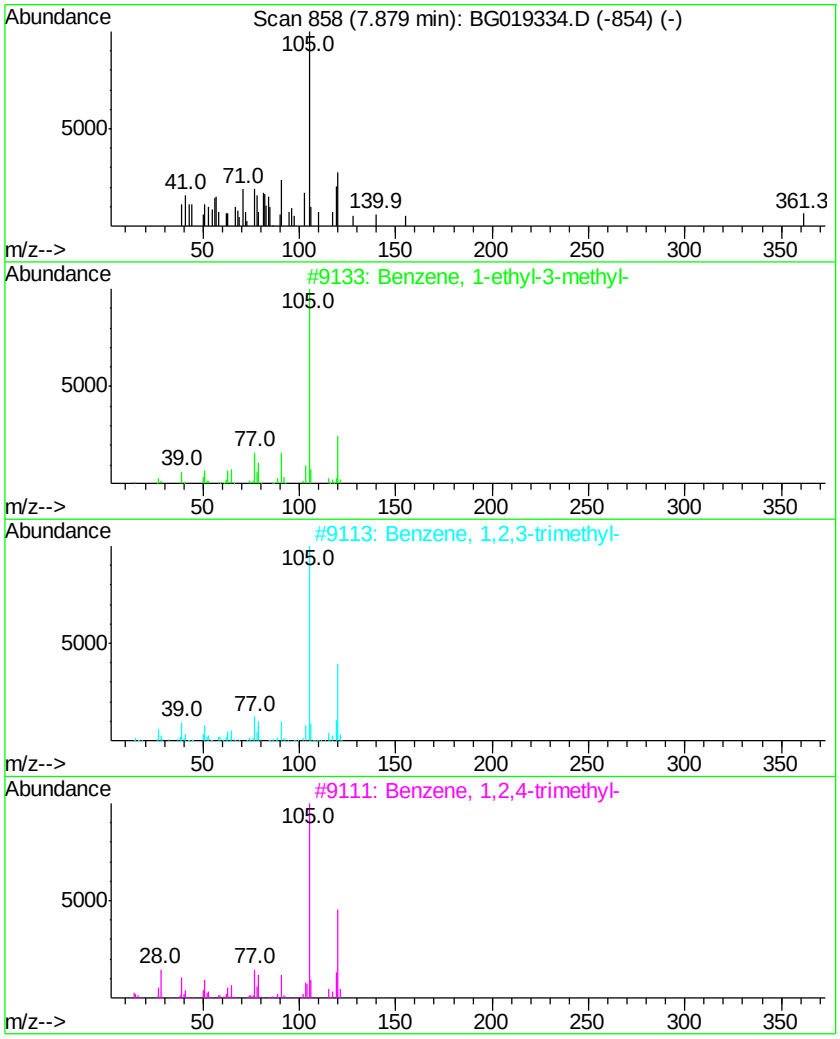
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

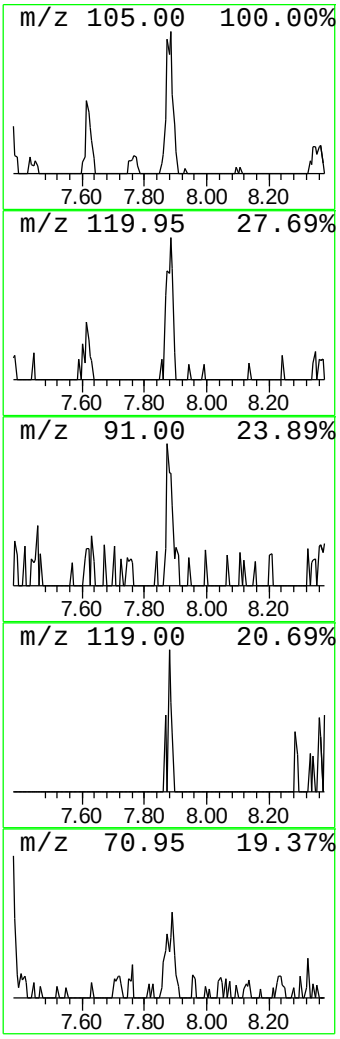
**********

Peak Number 4 unknown-02 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.88 | 2.59 ng/ul | 30816 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 35 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 35 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 35 |
| 4 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 27 |
| 5 | Benzene, (1-methylethyl)- | 120 | C9H12 | 000098-82-8 | 27 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

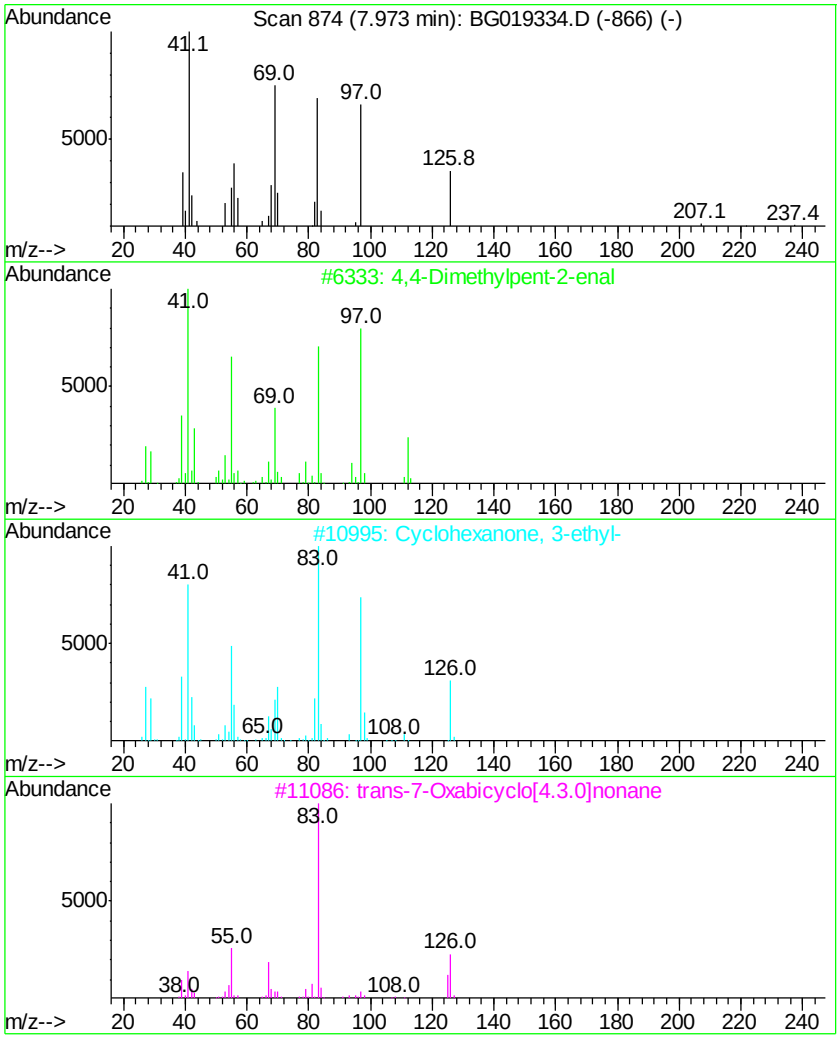
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

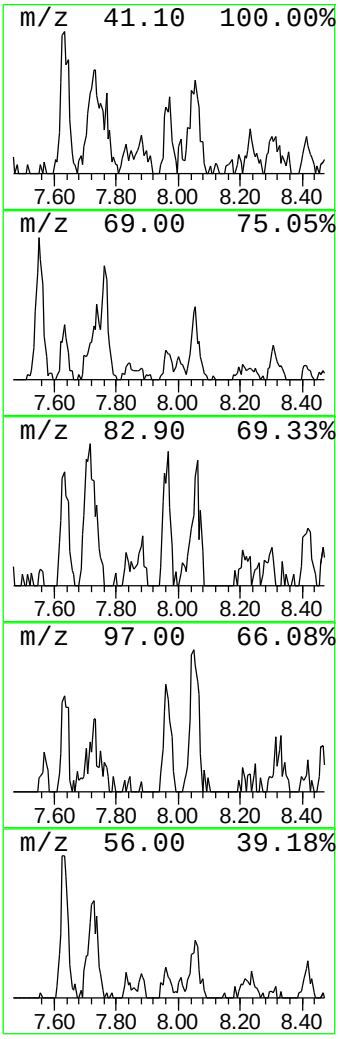
**********

Peak Number 5 unknown-03 Concentration Rank 67

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.97 | 2.22 ng/ul | 26409 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,4-Dimethylpent-2-enal | 112 | C7H12O | 1000195-01-6 | 47 |
| 2 | Cyclohexanone, 3-ethyl- | 126 | C8H14O | 022461-89-8 | 45 |
| 3 | trans-7-Oxabicyclo[4.3.0]nonane | 126 | C8H14O | 027345-70-6 | 43 |
| 4 | 4-Dodecylcyclohexanone | 266 | C18H34O | 161194-40-7 | 38 |
| 5 | Cyclopentanone, 2,4,4-trimethyl- | 126 | C8H14O | 004694-12-6 | 37 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

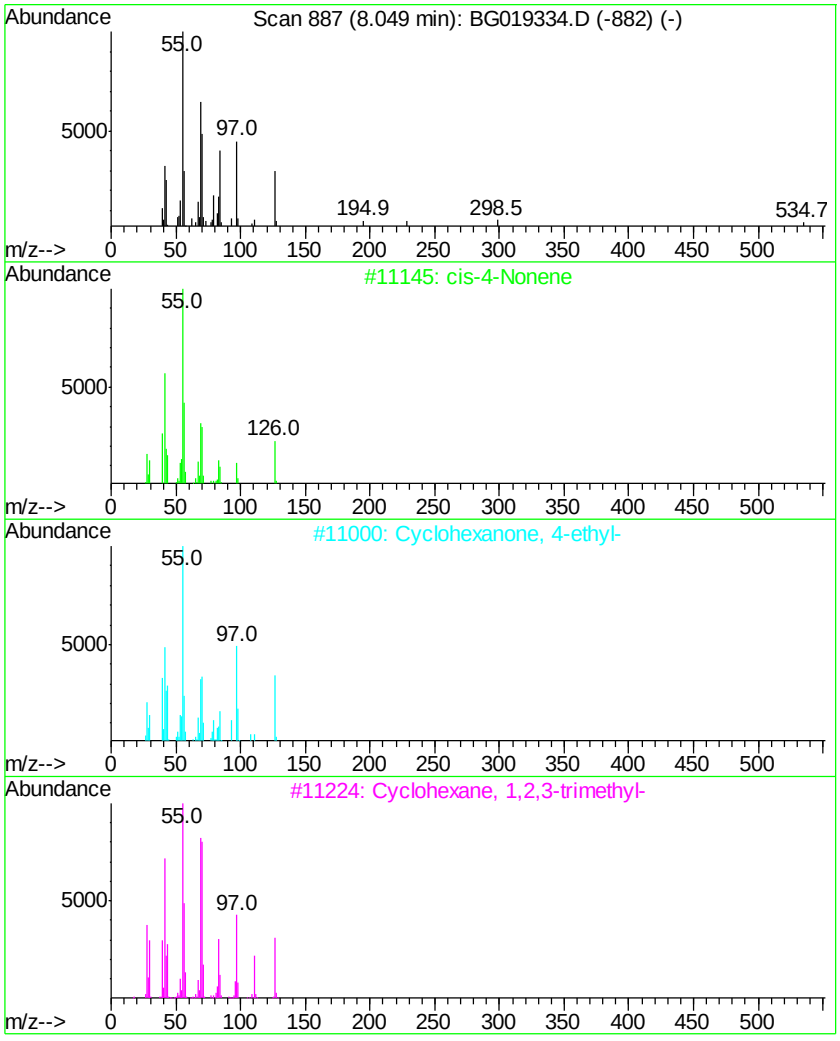
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

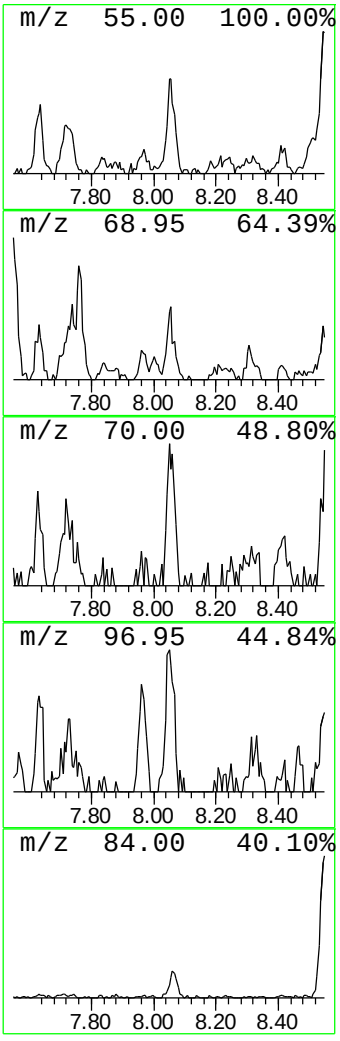
**********

Peak Number 6 cis-4-Nonene Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.05 | 4.63 ng/ul | 54993 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-4-Nonene | 126 | C9H18 | 010405-84-2 | 52 |
| 2 | Cyclohexanone, 4-ethyl- | 126 | C8H14O | 005441-51-0 | 52 |
| 3 | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18 | 001678-97-3 | 52 |
| 4 | Cyclobutane, 1-butyl-2-ethyl- | 140 | C10H20 | 1000150-67-3 | 50 |
| 5 | 4-Tetradecene, (Z)- | 196 | C14H28 | 041446-65-5 | 50 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

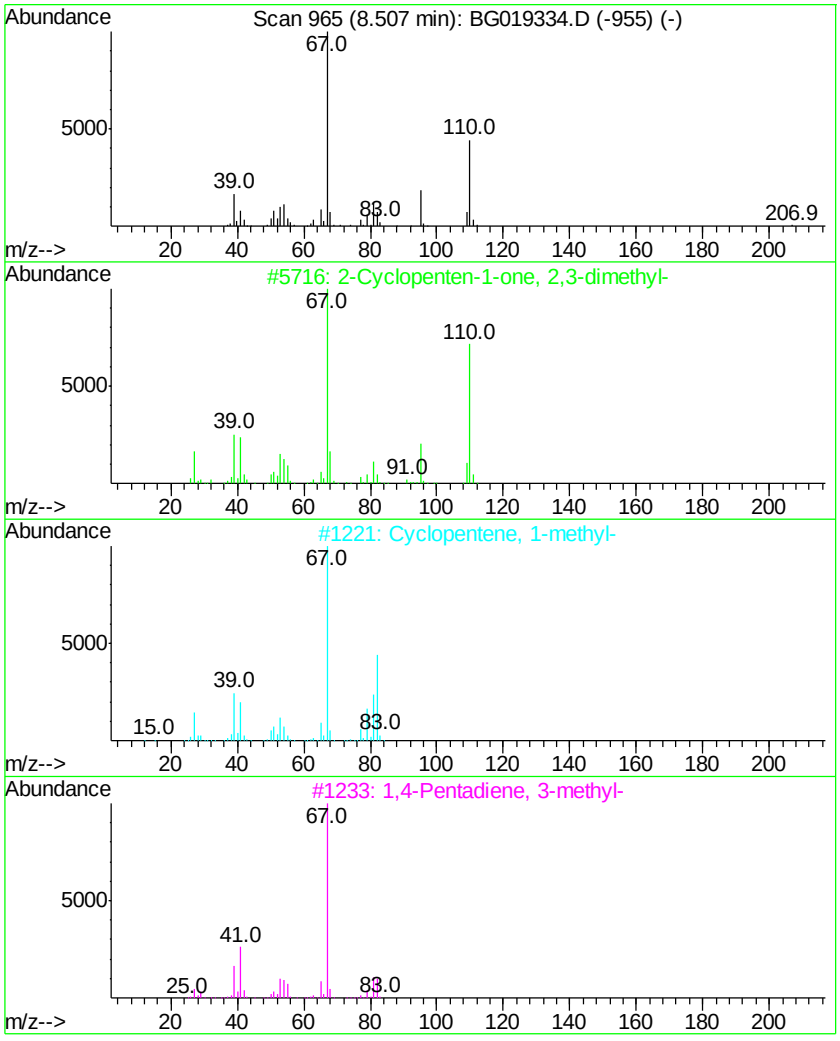
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

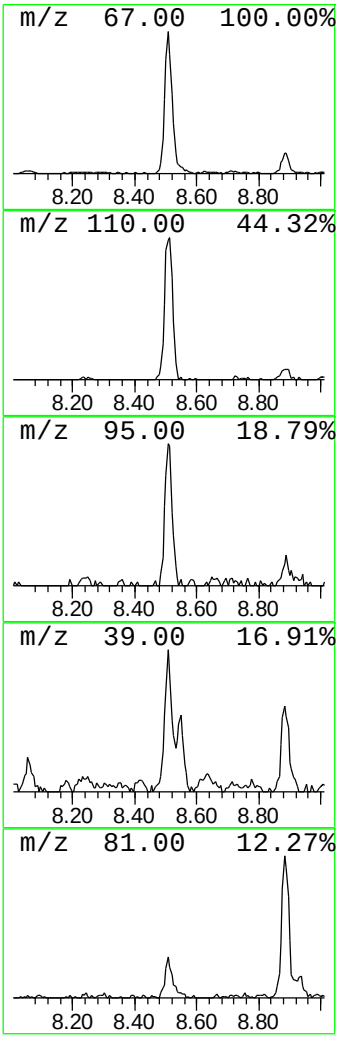
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 2-Cyclopenten-1-one, 2,3-di... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.51 | 18.37 ng/ul | 218261 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclopenten-1-one, 2,3-dimethyl- | 110 | C7H10O | 001121-05-7 | 91 |
| 2 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 60 |
| 3 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 52 |
| 4 | 1,4-Pentadiene, 2-methyl- | 82 | C6H10 | 000763-30-4 | 52 |
| 5 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 49 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

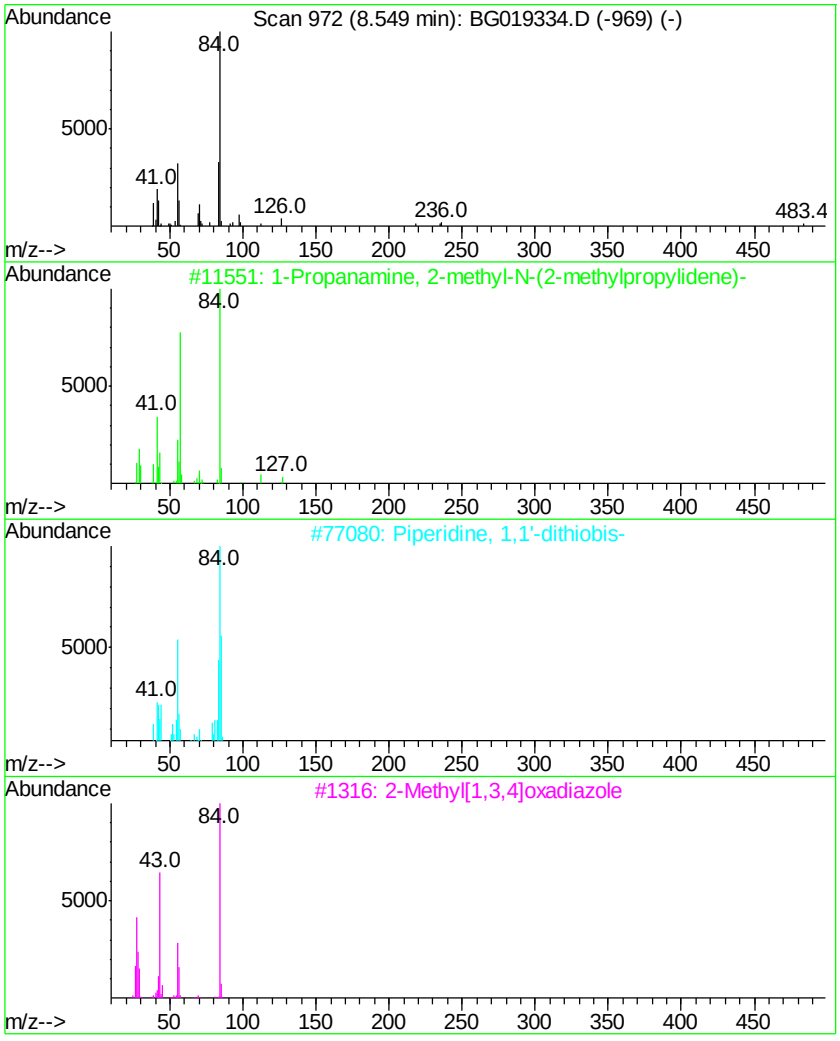
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

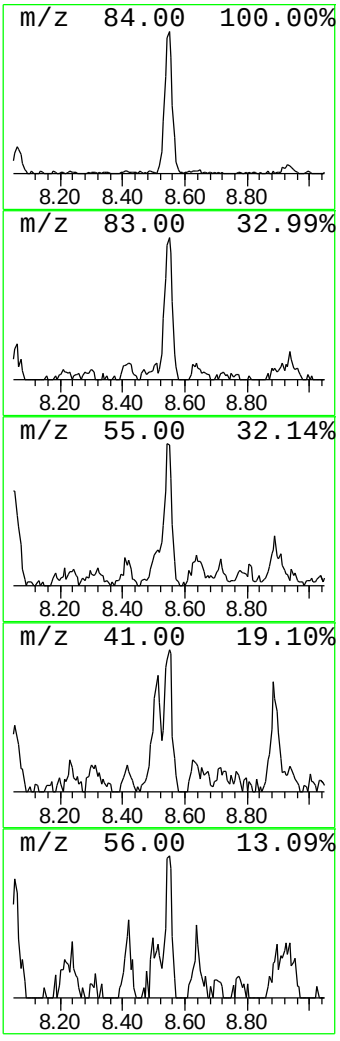
**********

Peak Number 8 unknown-04 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.55 | 8.17 ng/ul | 97116 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propanamine, 2-methyl-N-(2-met... | 127 | C8H17N | 006898-82-4 | 36 |
| 2 | Piperidine, 1,1'-dithiobis- | 232 | C10H20N2S2 | 010220-20-9 | 25 |
| 3 | 2-Methyl[1,3,4]oxadiazole | 84 | C3H4N2O | 003451-51-2 | 9 |
| 4 | Cyclobutaneethanol, .beta.-methy... | 112 | C7H12O | 116203-80-6 | 9 |
| 5 | 2-Butenal, 3-methyl- | 84 | C5H8O | 000107-86-8 | 9 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

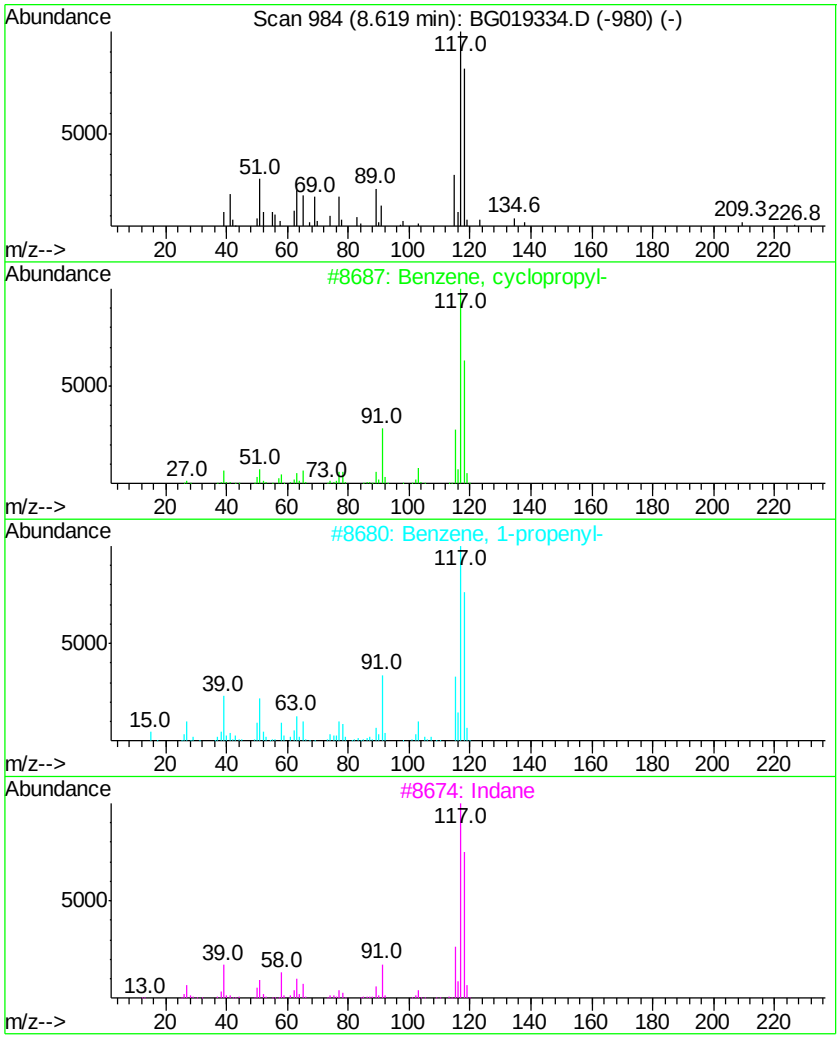
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

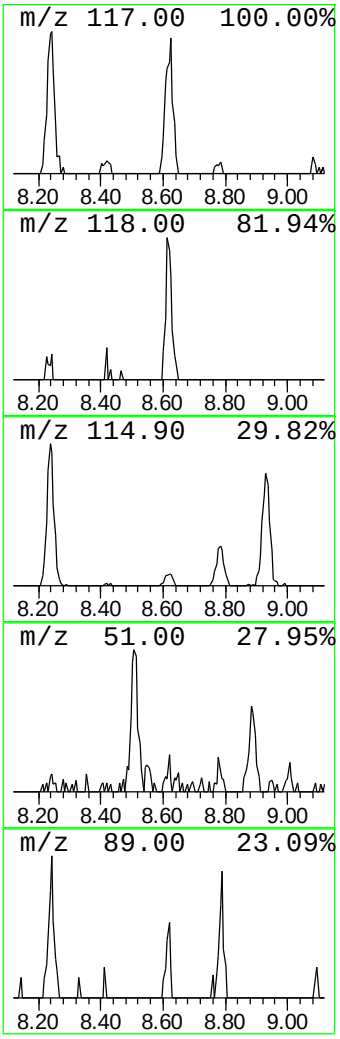
**********

Peak Number 9 unknown-05 Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.62 | 4.45 ng/ul | 52866 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 49 |
| 2 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 49 |
| 3 | Indane | 118 | C9H10 | 000496-11-7 | 49 |
| 4 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 46 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 46 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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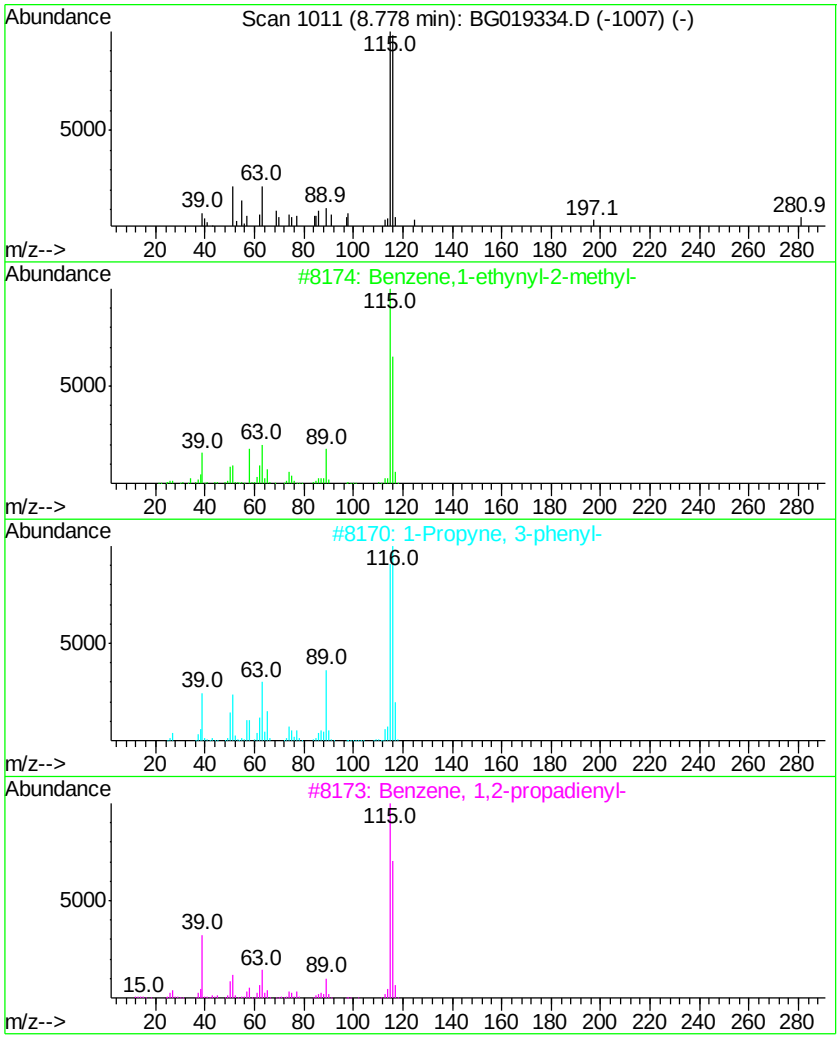
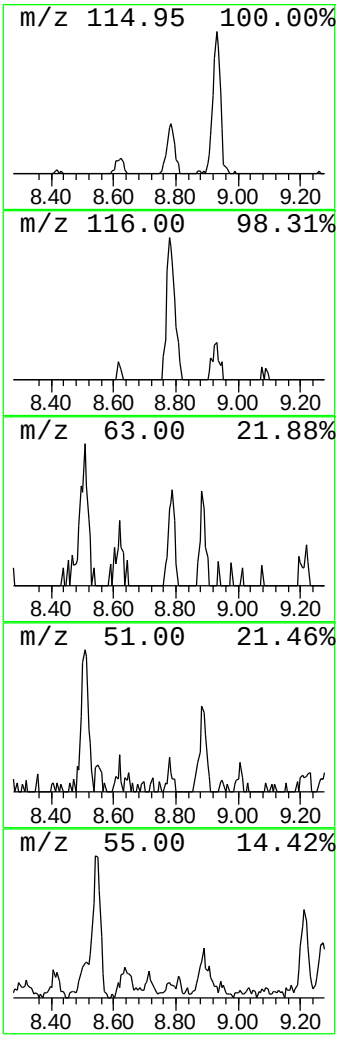
Peak Number 10 Benzene,1-ethynyl-2-methyl- Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.78 | 2.97 ng/ul | 35300 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene,1-ethynyl-2-methyl- | 116 | C9H8 | 000766-47-2 | 83 |
| 2 | 1-Propyne, 3-phenyl- | 116 | C9H8 | 010147-11-2 | 72 |
| 3 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 64 |
| 4 | Indene | 116 | C9H8 | 000095-13-6 | 53 |
| 5 | Indene | 116 | C9H8 | 000095-13-6 | 53 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

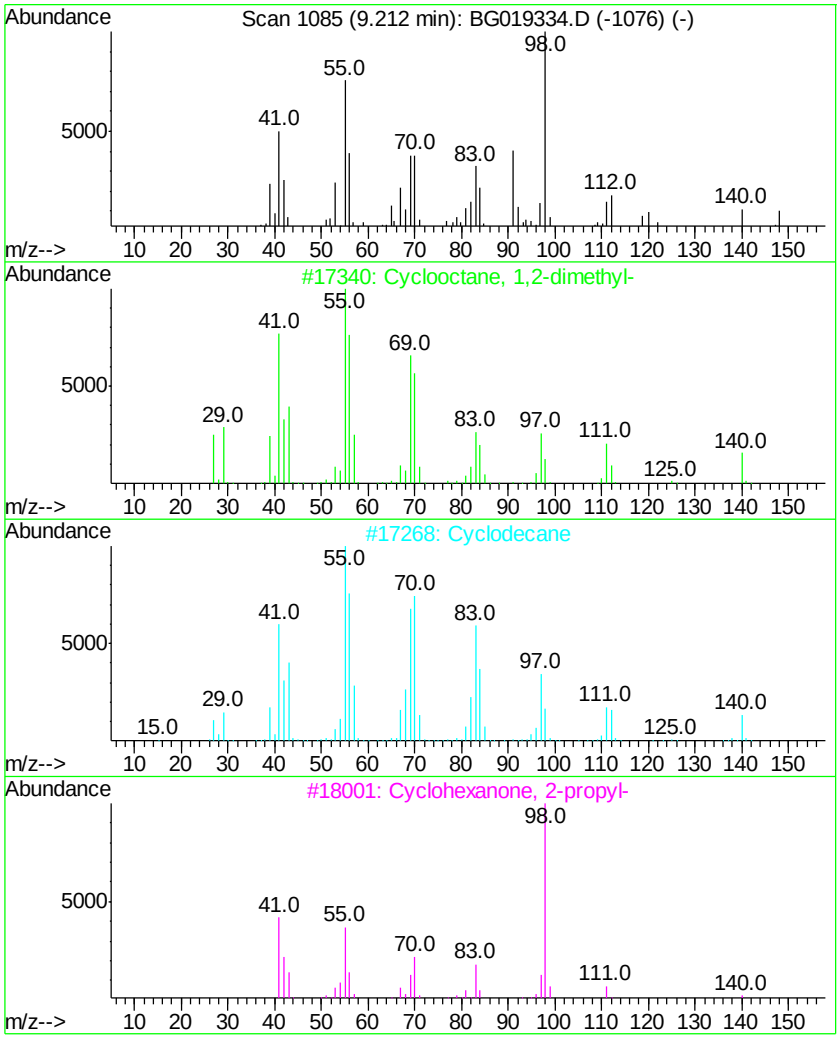
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

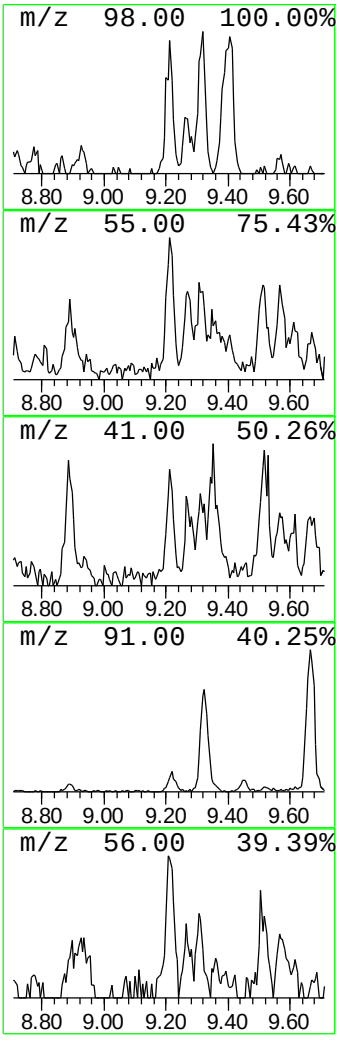
**********

Peak Number 11 Cyclooctane, 1,2-dimethyl- Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.21 | 5.84 ng/ul | 69418 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclooctane, 1,2-dimethyl- | 140 | C10H20 | 013151-94-5 | 55 |
| 2 | Cyclodecane | 140 | C10H20 | 000293-96-9 | 55 |
| 3 | Cyclohexanone, 2-propyl- | 140 | C9H16O | 000094-65-5 | 52 |
| 4 | 1,3-Cyclopentanedione | 98 | C5H6O2 | 003859-41-4 | 49 |
| 5 | Cyclodecane | 140 | C10H20 | 000293-96-9 | 46 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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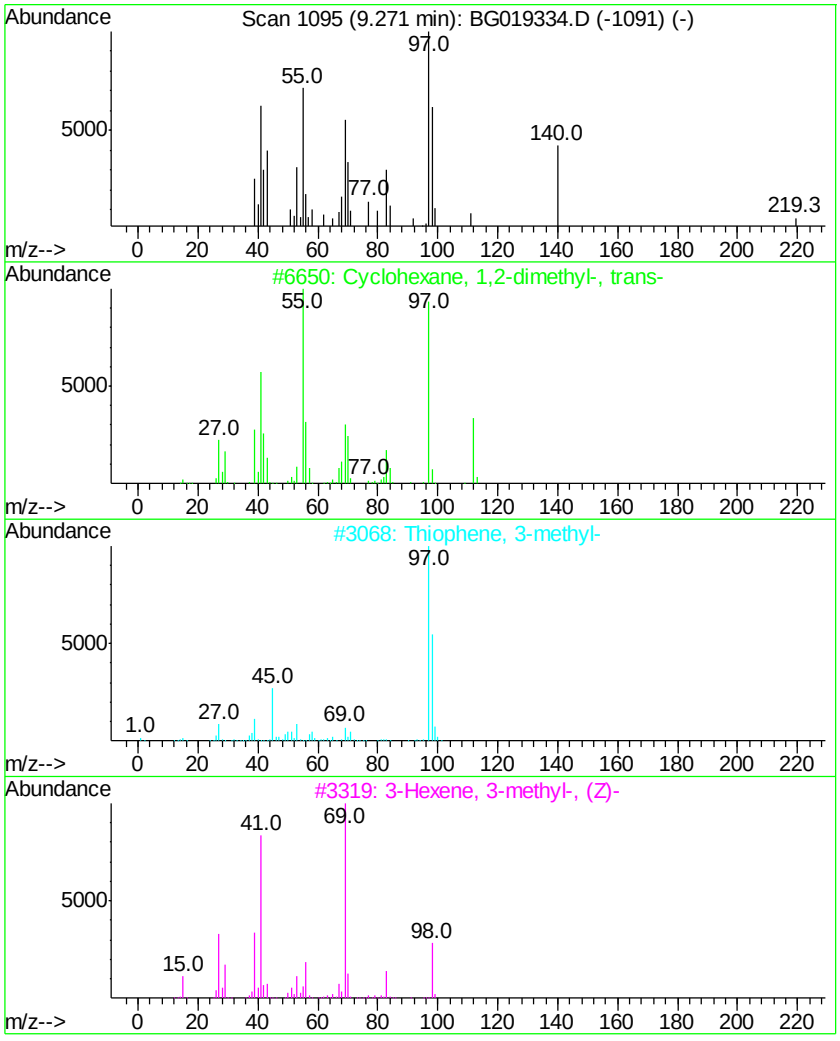
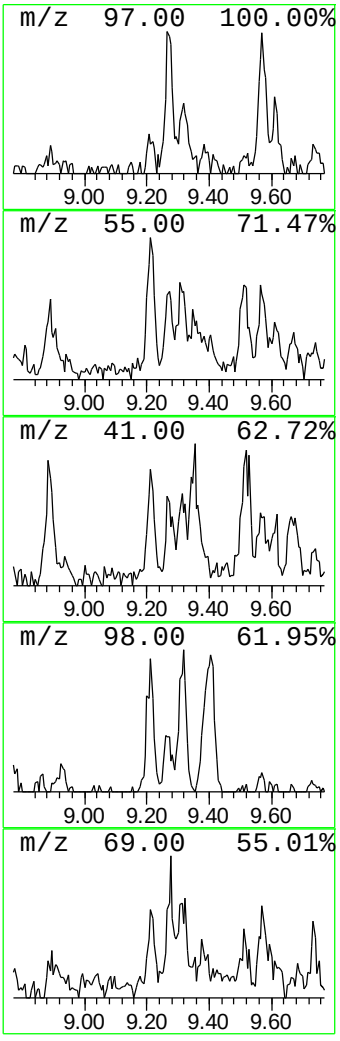
Peak Number 12 unknown-06 Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.27 | 2.42 ng/ul | 28704 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 43 |
| 2 | Thiophene, 3-methyl- | 98 | C5H6S | 000616-44-4 | 35 |
| 3 | 3-Hexene, 3-methyl-, (Z)- | 98 | C7H14 | 004914-89-0 | 27 |
| 4 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 27 |
| 5 | Cyclohexanone | 98 | C6H10O | 000108-94-1 | 27 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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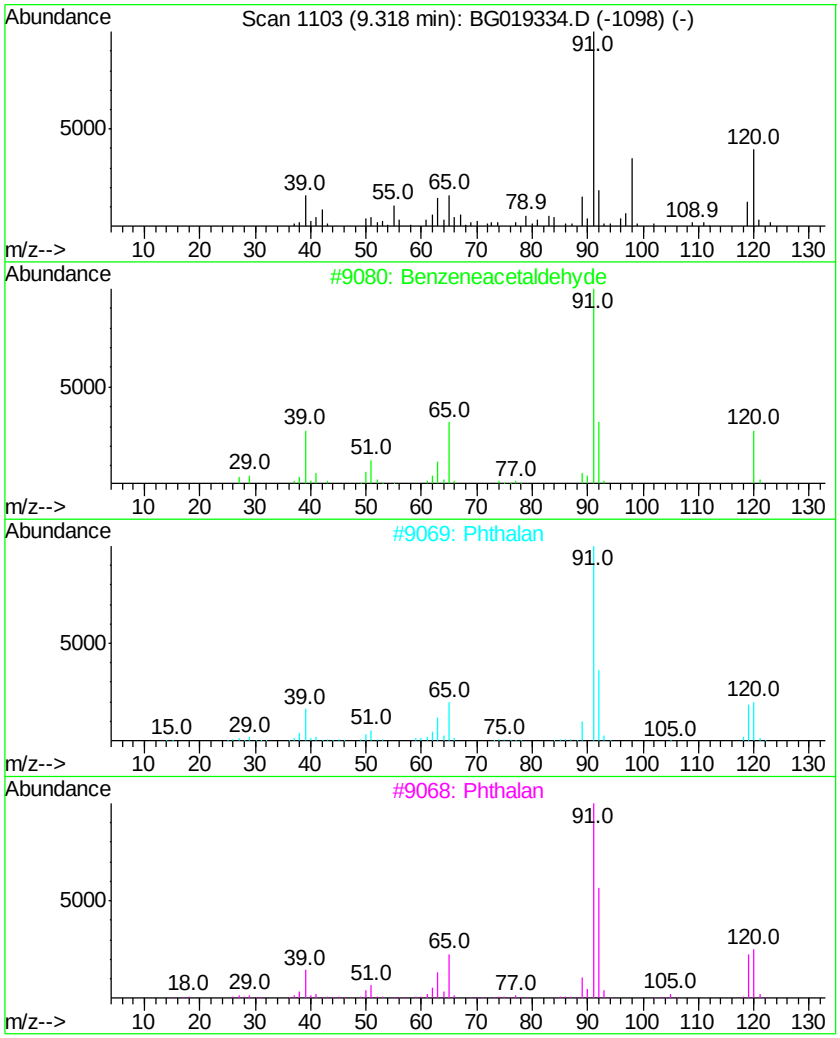
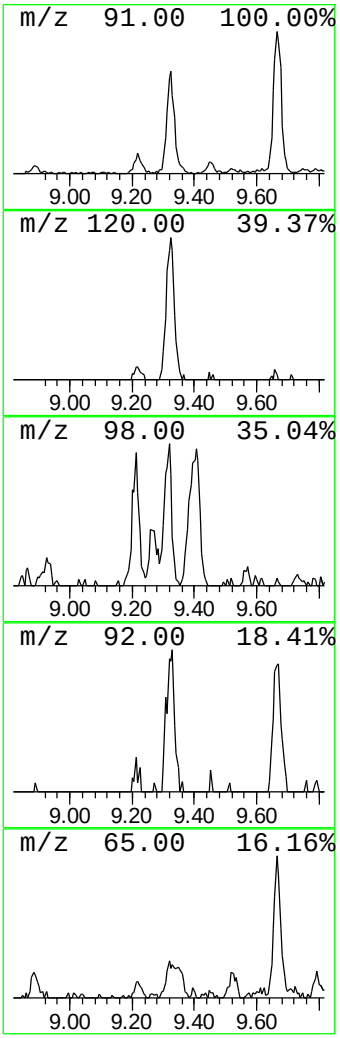
Peak Number 13 unknown-07 Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.32 | 9.44 ng/ul | 112156 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetaldehyde | 120 | C8H8O | 000122-78-1 | 46 |
| 2 | Phthalan | 120 | C8H8O | 000496-14-0 | 43 |
| 3 | Phthalan | 120 | C8H8O | 000496-14-0 | 43 |
| 4 | Benzaldehyde, 2-methyl- | 120 | C8H8O | 000529-20-4 | 38 |
| 5 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

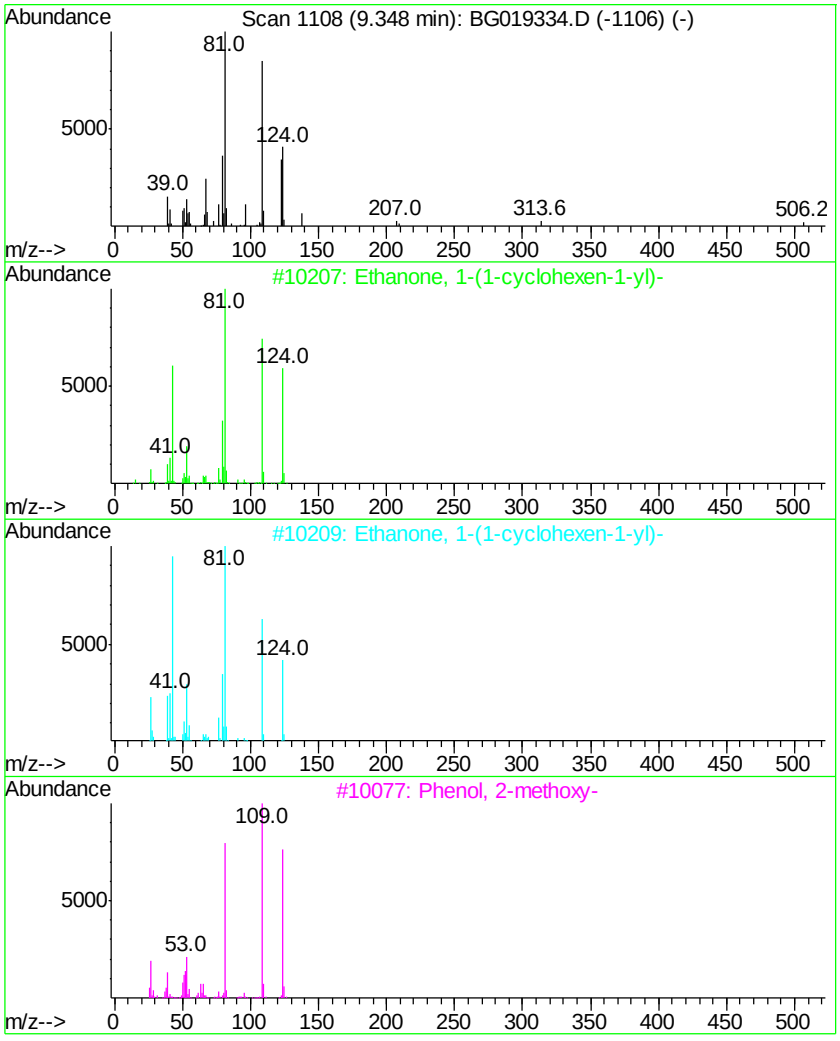
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

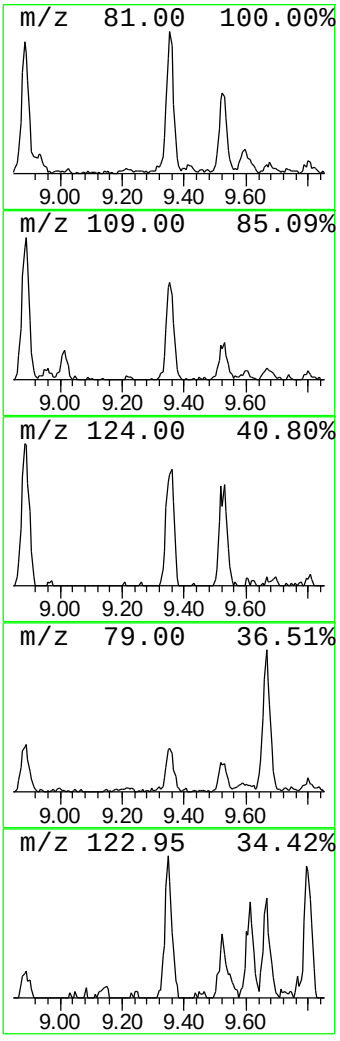
**********

Peak Number 14 Ethanone, 1-(1-cyclohexen-1... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.35 | 10.90 ng/ul | 129495 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 72 |
| 2 | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O | 000932-66-1 | 72 |
| 3 | Phenol, 2-methoxy- | 124 | C7H8O2 | 000090-05-1 | 59 |
| 4 | Cyclohexane, (1-methylethylidene)- | 124 | C9H16 | 005749-72-4 | 59 |
| 5 | Ethanone, 1-(2-methyl-2-cyclopen... | 124 | C8H12O | 001767-84-6 | 52 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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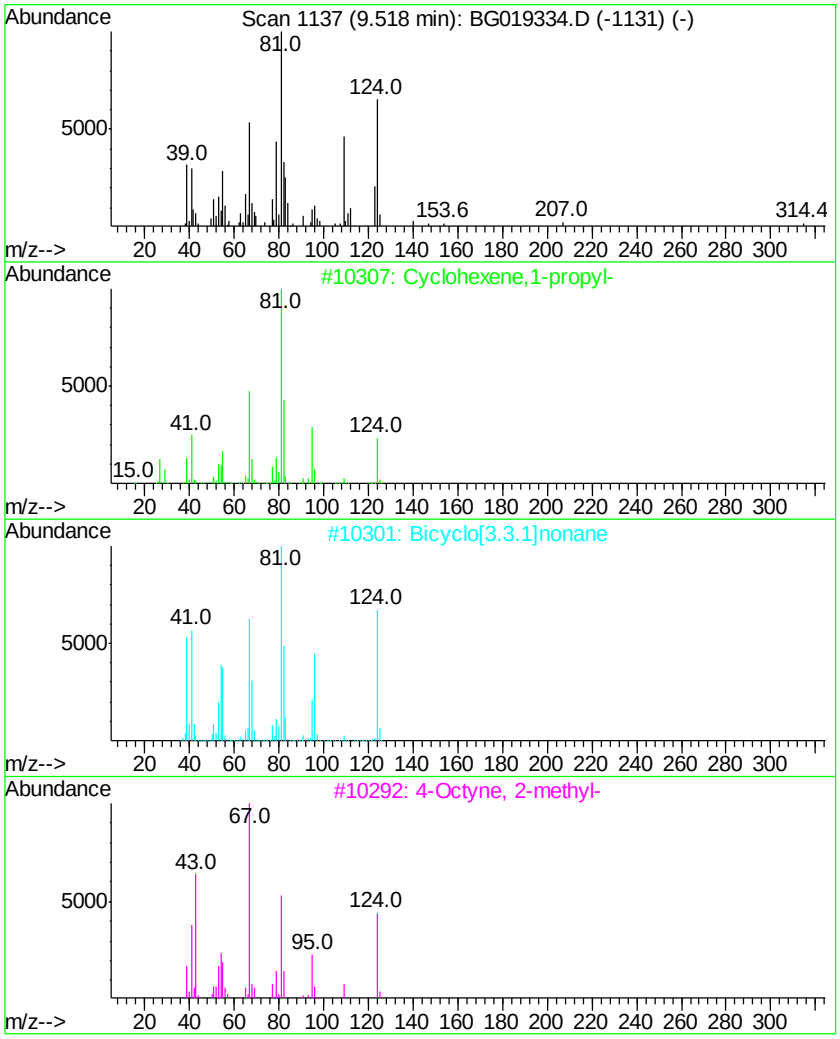
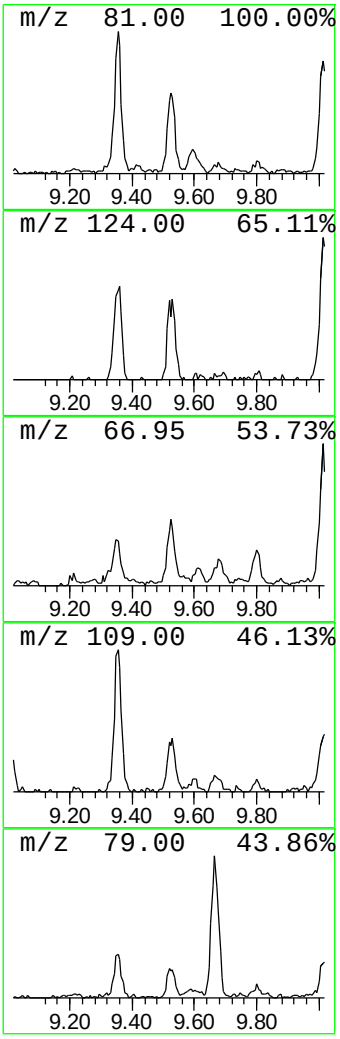
Peak Number 15 unknown-08 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.52 | 10.26 ng/ul | 121864 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene,1-propyl- | 124 | C9H16 | 002539-75-5 | 49 |
| 2 | Bicyclo[3.3.1]nonane | 124 | C9H16 | 000280-65-9 | 43 |
| 3 | 4-Octyne, 2-methyl- | 124 | C9H16 | 010306-94-2 | 38 |
| 4 | 2,4-Hexadiene, 2-methyl- | 96 | C7H12 | 028823-41-8 | 38 |
| 5 | 3,cis-5-Heptadien-1-ol | 112 | C7H12O | 1000155-55-6 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

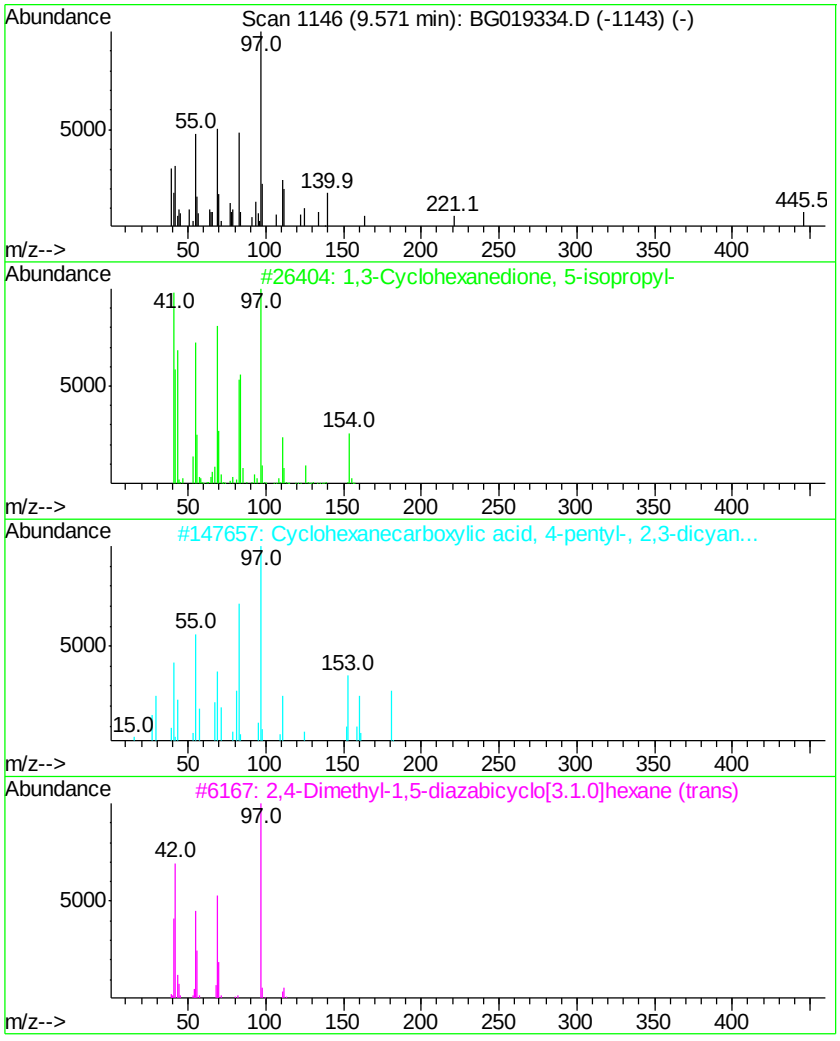
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

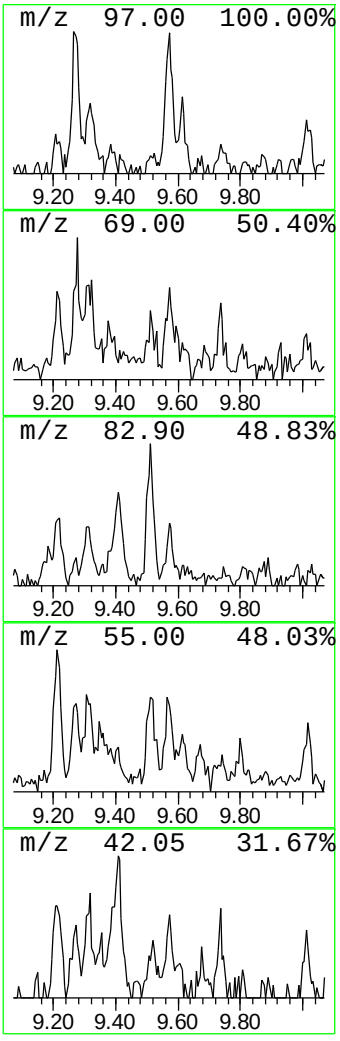
**********

Peak Number 16 unknown-09 Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.57 | 3.60 ng/ul | 42747 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclohexanedione, 5-isopropyl- | 154 | C9H14O2 | 018456-87-6 | 38 |
| 2 | Cyclohexanecarboxylic acid, 4-pe... | 368 | C22H28N2O3 | 133856-87-8 | 32 |
| 3 | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 1000283-20-9 | 27 |
| 4 | 5-Amino-3-methylpyrazole | 97 | C4H7N3 | 031230-17-8 | 25 |
| 5 | Cyclopentanecarboxylic acid, 4-p... | 324 | C21H40O2 | 1000280-59-2 | 25 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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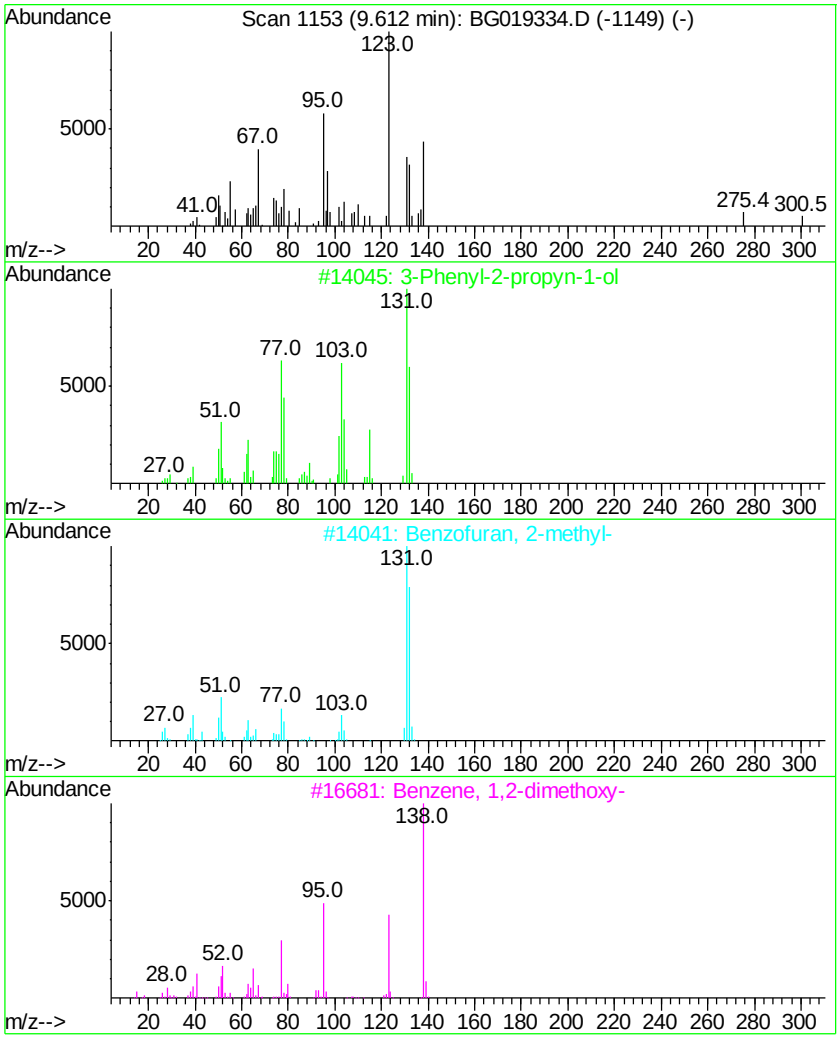
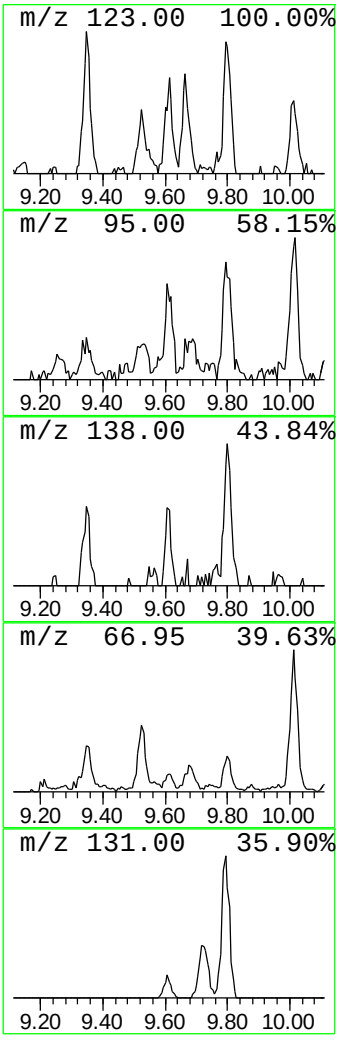
Peak Number 17 unknown-10 Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.61 | 5.53 ng/ul | 65643 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 42 |
| 2 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 38 |
| 3 | Benzene, 1,2-dimethoxy- | 138 | C8H10O2 | 000091-16-7 | 38 |
| 4 | 4-Methoxy-o-phenylenediamine | 138 | C7H10N2O | 000102-51-2 | 38 |
| 5 | Cinnamaldehyde, (E)- | 132 | C9H8O | 014371-10-9 | 35 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

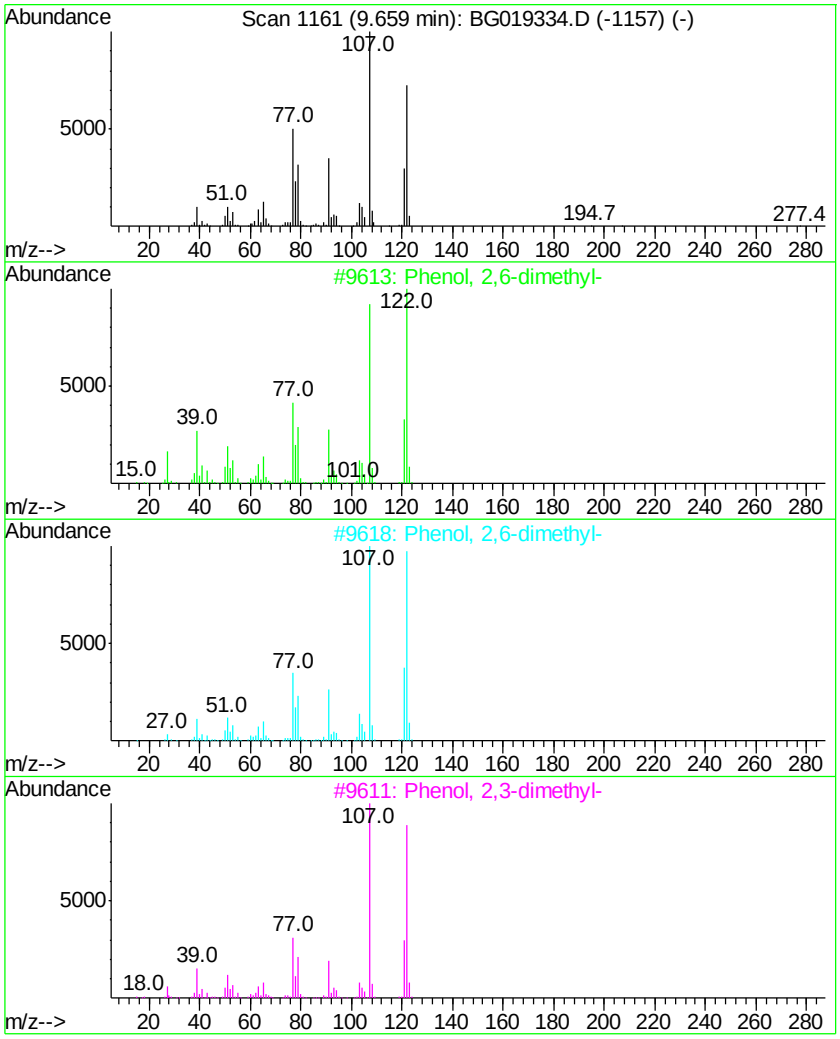
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

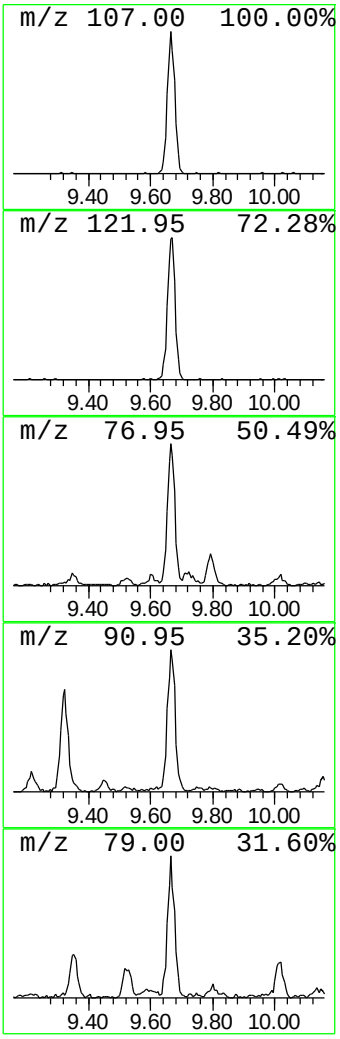
**********

Peak Number 18 Phenol, 2,6-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 33.77 ng/ul | 495270 | Naphthalene-d8 | 11.06 |

| 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 | 96 |
| 3 | Phenol, 2,3-dimethyl- | 122 | C8H10O | 000526-75-0 | 94 |
| 4 | Phenol, 2,5-dimethyl- | 122 | C8H10O | 000095-87-4 | 94 |
| 5 | Phenol, 2,3-dimethyl- | 122 | C8H10O | 000526-75-0 | 94 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

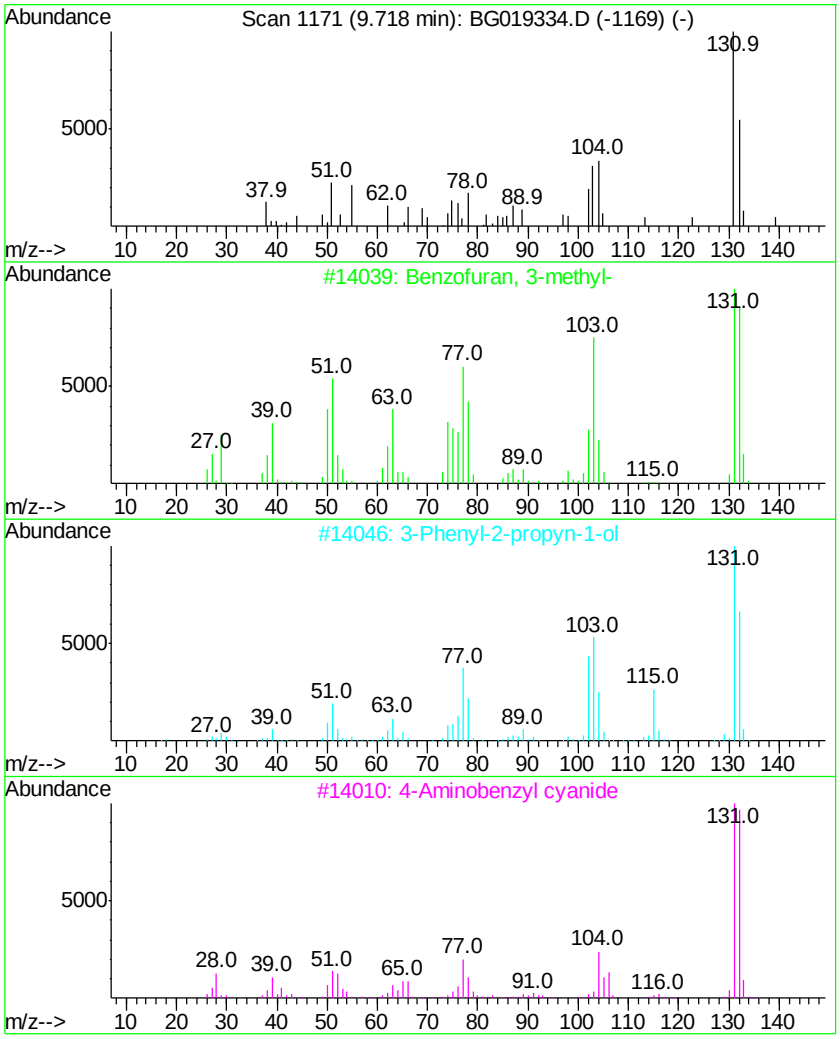
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

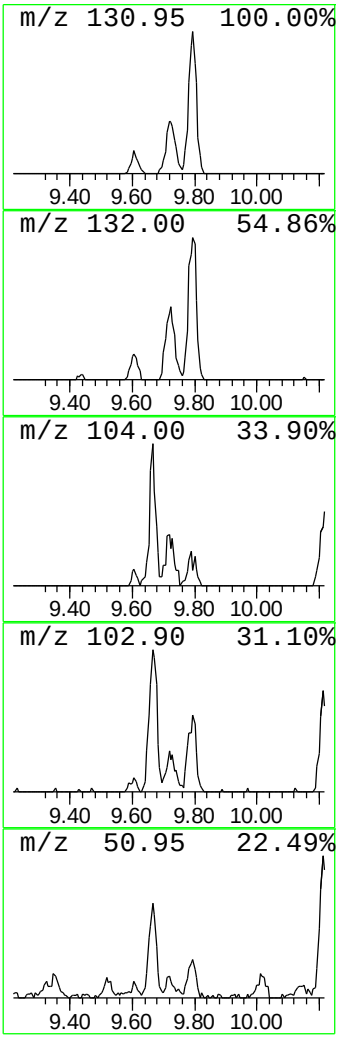
**********

Peak Number 19 Benzofuran, 3-methyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.72 | 4.90 ng/ul | 71814 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 3-methyl- | 132 | C9H8O | 021535-97-7 | 53 |
| 2 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 47 |
| 3 | 4-Aminobenzyl cyanide | 132 | C8H8N2 | 003544-25-0 | 46 |
| 4 | Cinnamaldehyde, (E)- | 132 | C9H8O | 014371-10-9 | 46 |
| 5 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 43 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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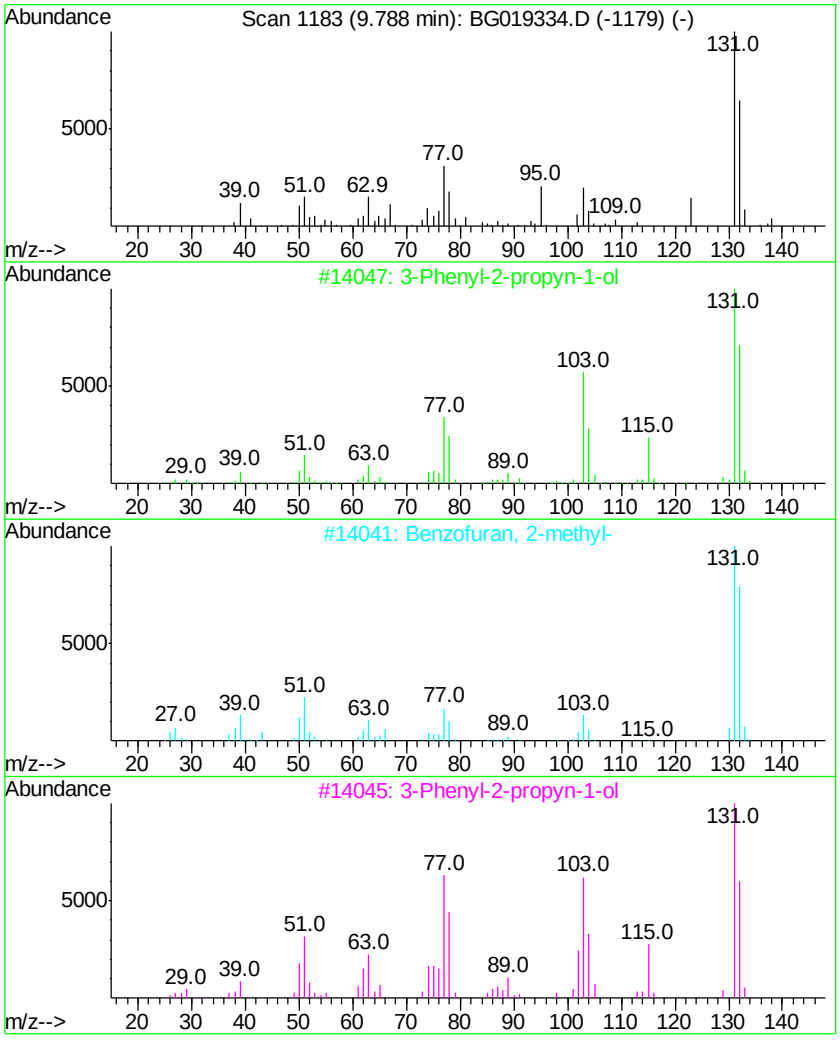
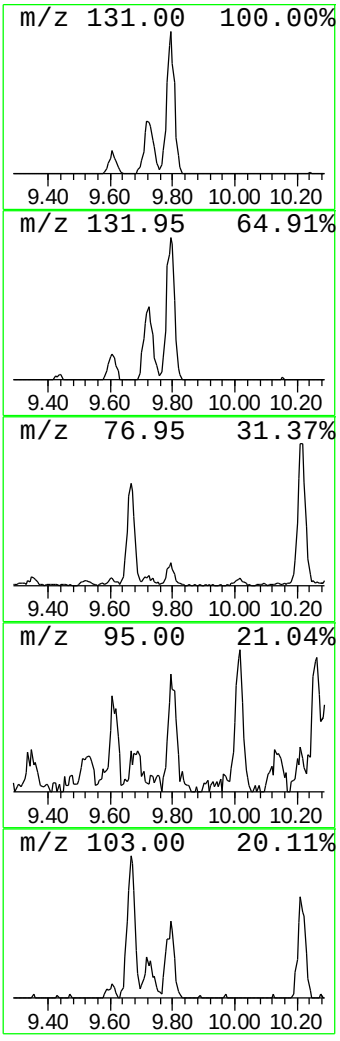
Peak Number 20 3-Phenyl-2-propyn-1-ol Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.79 | 11.75 ng/ul | 172383 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 64 |
| 2 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 60 |
| 3 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 59 |
| 4 | Benzopyrimidine, 3,4-dihydro- | 132 | C8H8N2 | 001904-64-9 | 58 |
| 5 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 58 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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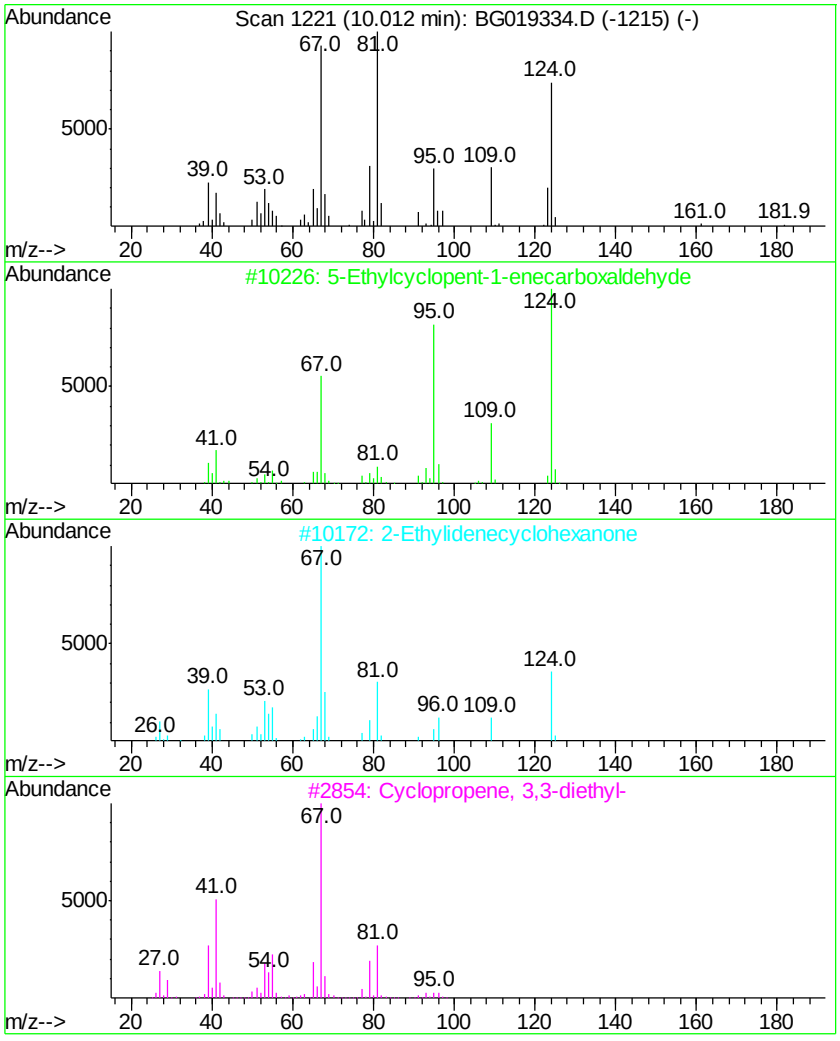
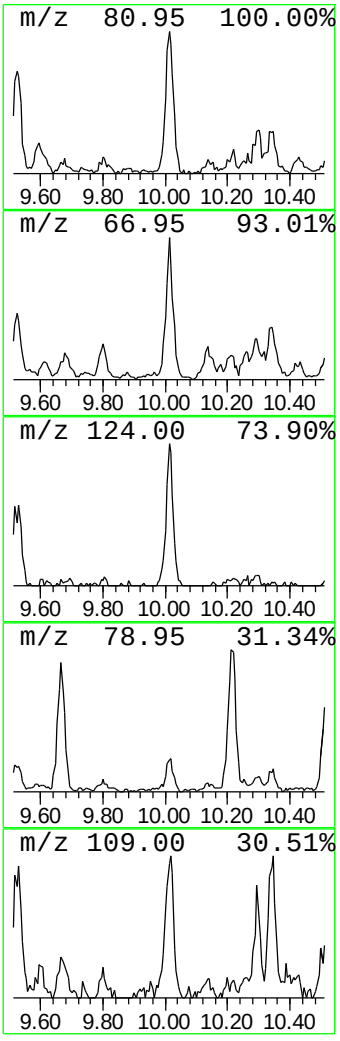
Peak Number 21 unknown-11 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.01 | 10.78 ng/ul | 158055 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Ethylcyclopent-1-enecarboxalde... | 124 | C8H12O | 036431-60-4 | 43 |
| 2 | 2-Ethylidenecyclohexanone | 124 | C8H12O | 001122-24-3 | 27 |
| 3 | Cyclopropene, 3,3-diethyl- | 96 | C7H12 | 078578-86-6 | 27 |
| 4 | Phenol, 3-methoxy- | 124 | C7H8O2 | 000150-19-6 | 25 |
| 5 | Phenol, 3-methoxy- | 124 | C7H8O2 | 000150-19-6 | 25 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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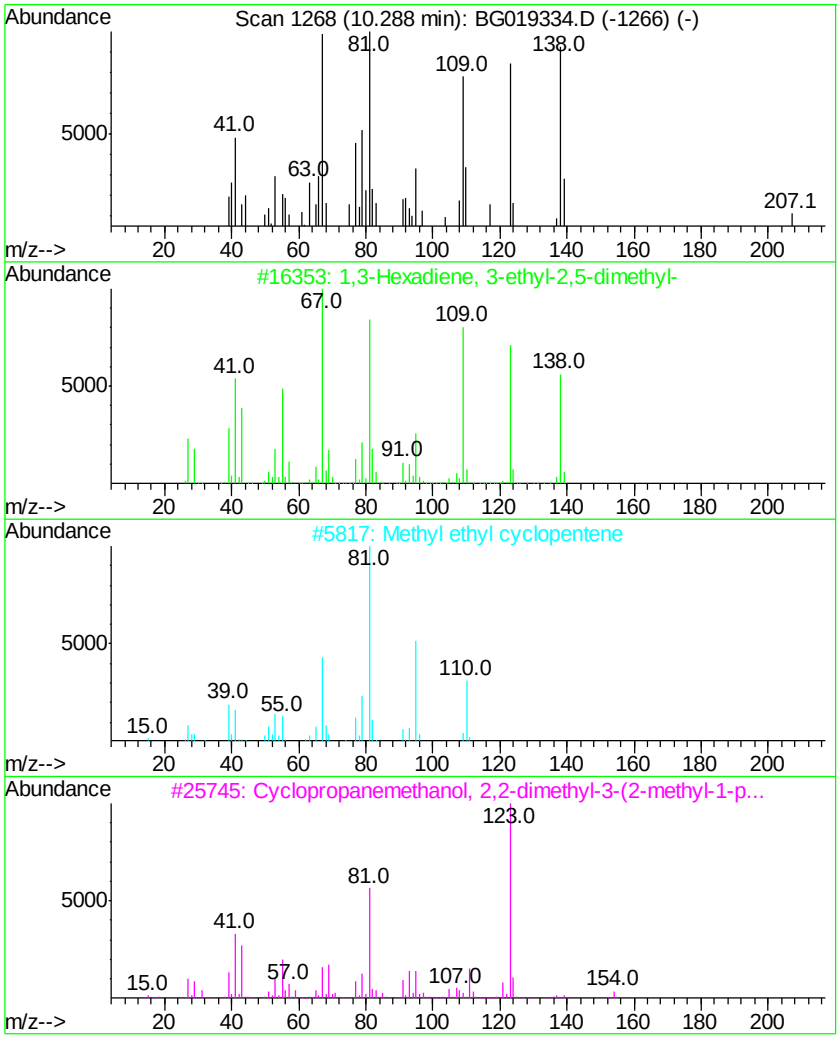
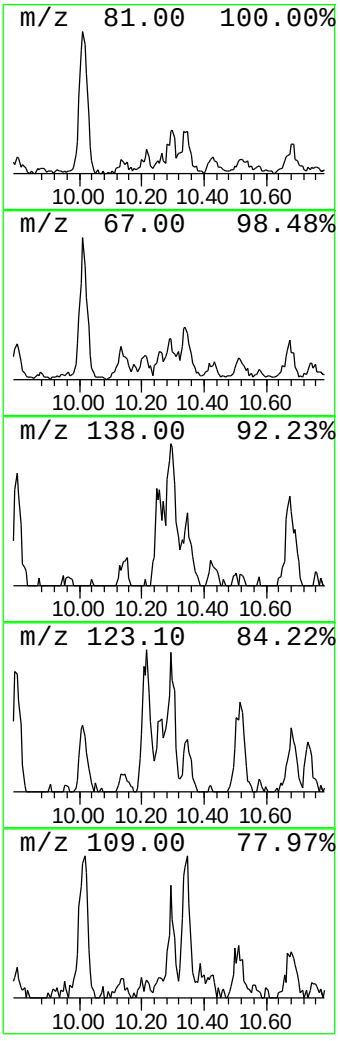
Peak Number 22 1,3-Hexadiene, 3-ethyl-2,5-... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.29 | 4.82 ng/ul | 70647 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Hexadiene, 3-ethyl-2,5-dimet... | 138 | C10H18 | 062338-07-2 | 58 |
| 2 | Methyl ethyl cyclopentene | 110 | C8H14 | 019780-56-4 | 41 |
| 3 | Cyclopropanemethanol, 2,2-dimeth... | 154 | C10H18O | 005617-92-5 | 35 |
| 4 | Imidazole-2-hydrazide-1-carboxyl... | 154 | C5H6N4O2 | 1000126-42-2 | 35 |
| 5 | Mequinol | 124 | C7H8O2 | 000150-76-5 | 30 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

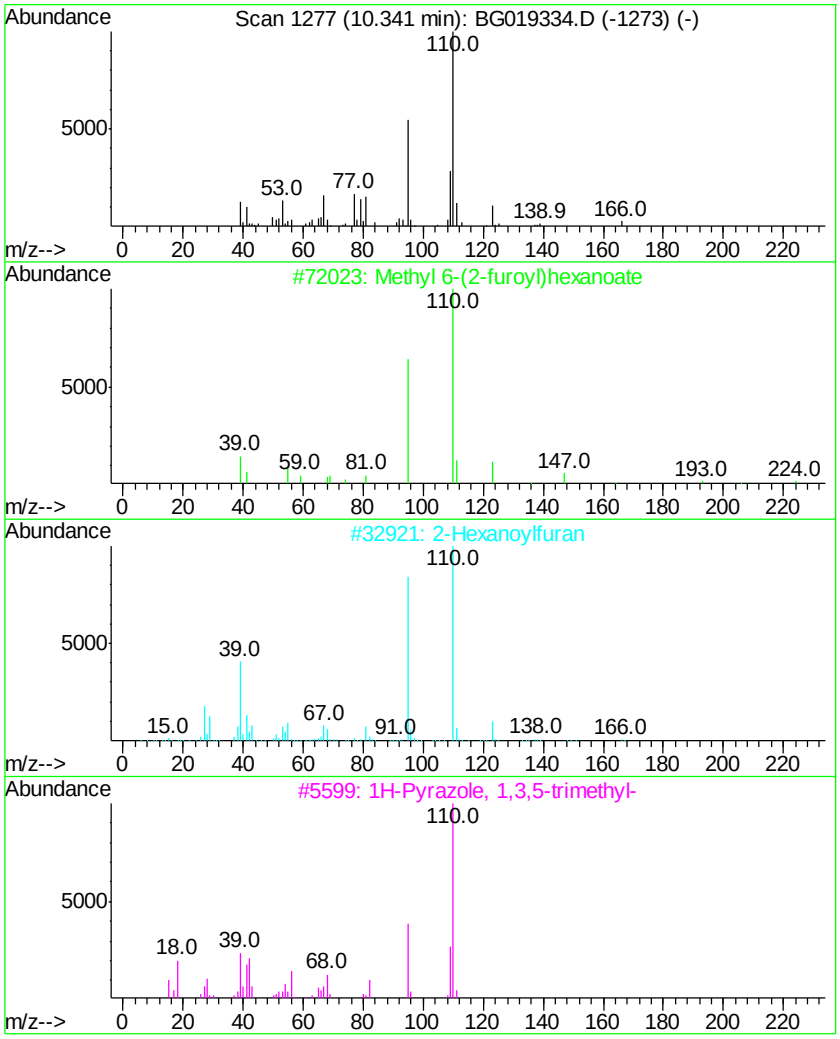
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

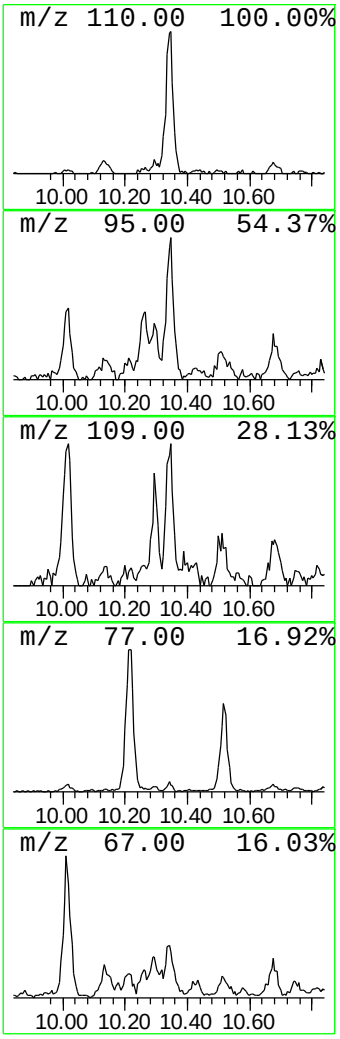
**********

Peak Number 23 Methyl 6-(2-furoyl)hexanoate Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.34 | 8.29 ng/ul | 121524 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl 6-(2-furoyl)hexanoate | 224 | C12H16O4 | 004219-21-0 | 53 |
| 2 | 2-Hexanoylfuran | 166 | C10H14O2 | 014360-50-0 | 53 |
| 3 | 1H-Pyrazole, 1,3,5-trimethyl- | 110 | C6H10N2 | 001072-91-9 | 50 |
| 4 | 2-Cyclopenten-1-one, 2,3-dimethyl- | 110 | C7H10O | 001121-05-7 | 50 |
| 5 | Benzenethiol | 110 | C6H6S | 000108-98-5 | 47 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

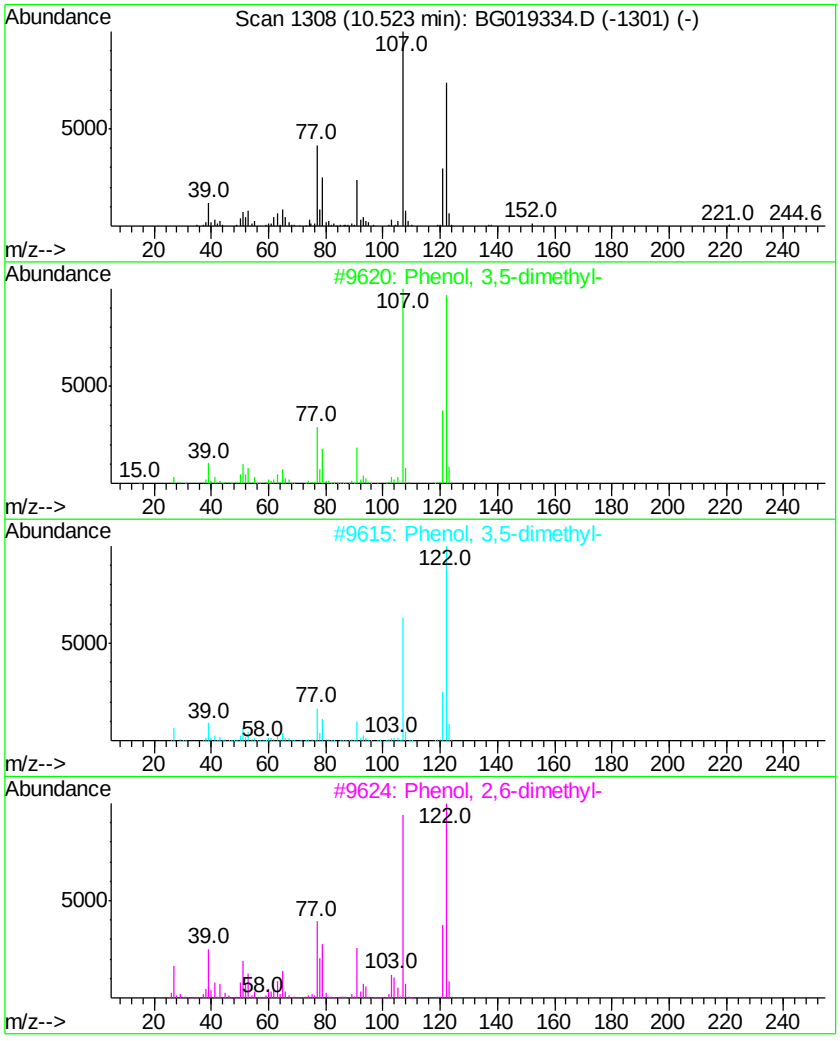
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

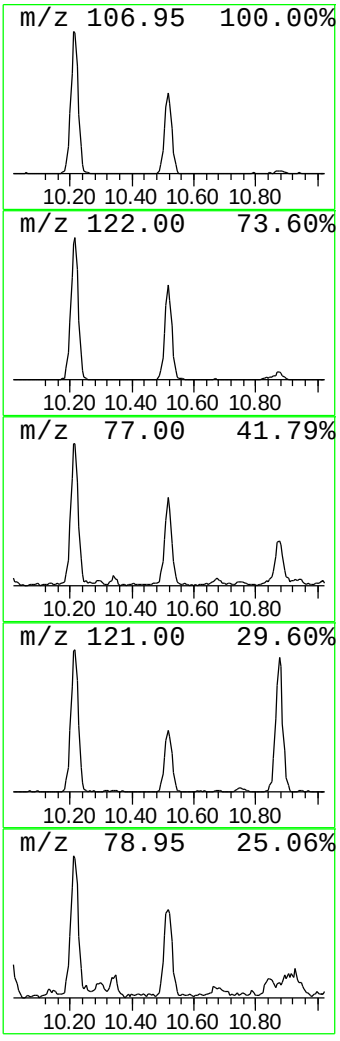
**********

Peak Number 24 Phenol, 3,5-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.52 | 25.19 ng/ul | 369410 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 94 |
| 2 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 91 |
| 3 | Phenol, 2,6-dimethyl- | 122 | C8H10O | 000576-26-1 | 91 |
| 4 | Phenol, 2-ethyl- | 122 | C8H10O | 000090-00-6 | 91 |
| 5 | Phenol, 3,5-dimethyl- | 122 | C8H10O | 000108-68-9 | 91 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

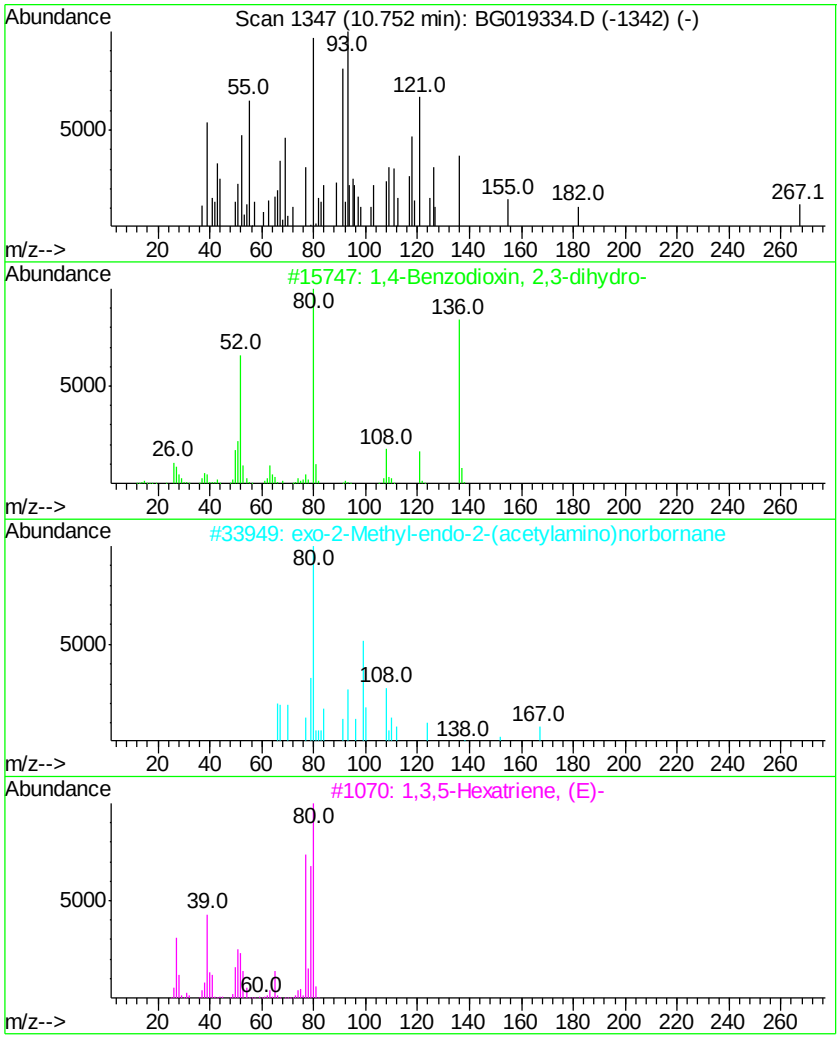
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

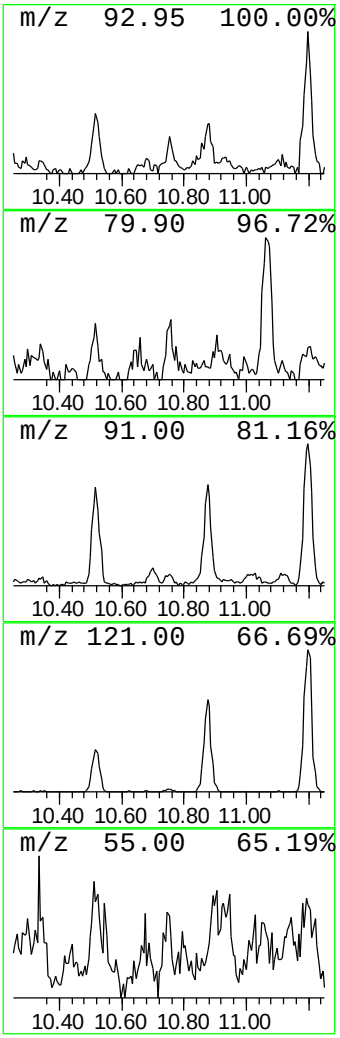
**********

Peak Number 25 unknown-12 Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.75 | 2.55 ng/ul | 37425 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Benzodioxin, 2,3-dihydro- | 136 | C8H8O2 | 000493-09-4 | 47 |
| 2 | exo-2-Methyl-endo-2-(acetylamino... | 167 | C10H17NO | 108811-69-4 | 42 |
| 3 | 1,3,5-Hexatriene, (E)- | 80 | C6H8 | 000821-07-8 | 38 |
| 4 | 2-Pyridinemethanamine | 108 | C6H8N2 | 003731-51-9 | 38 |
| 5 | Tricyclo[5.3.0.0(3,9)]decane | 136 | C10H16 | 053130-27-1 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

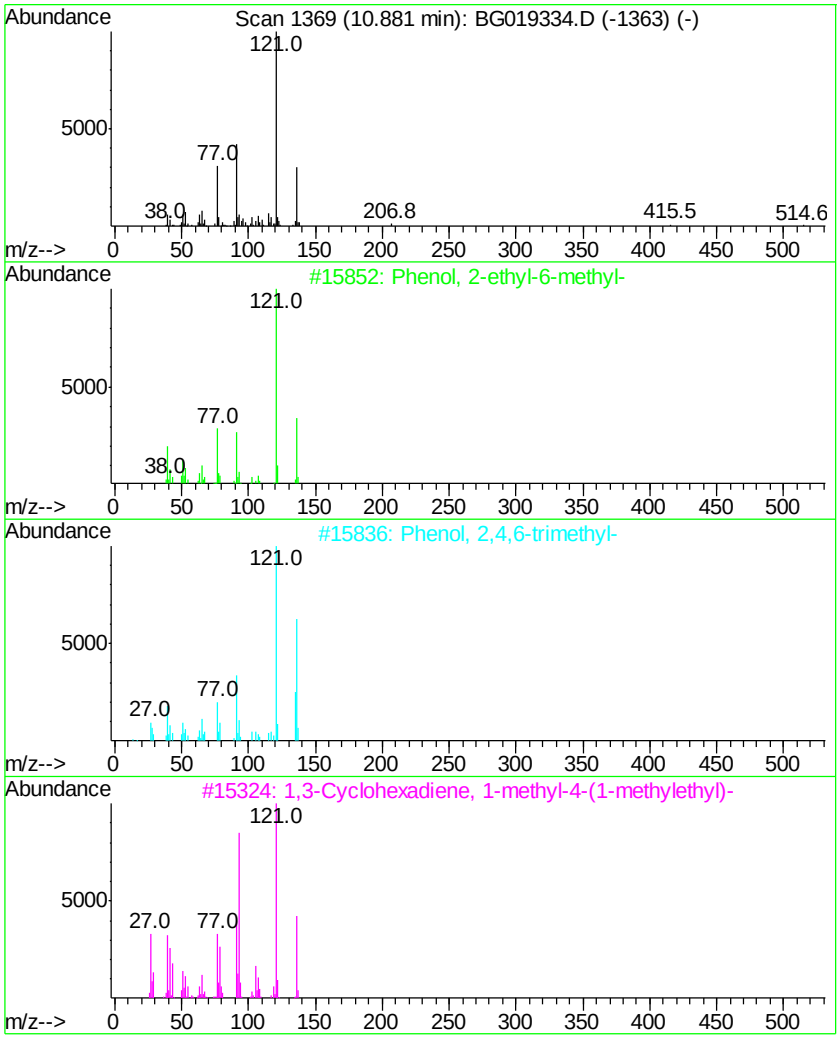
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

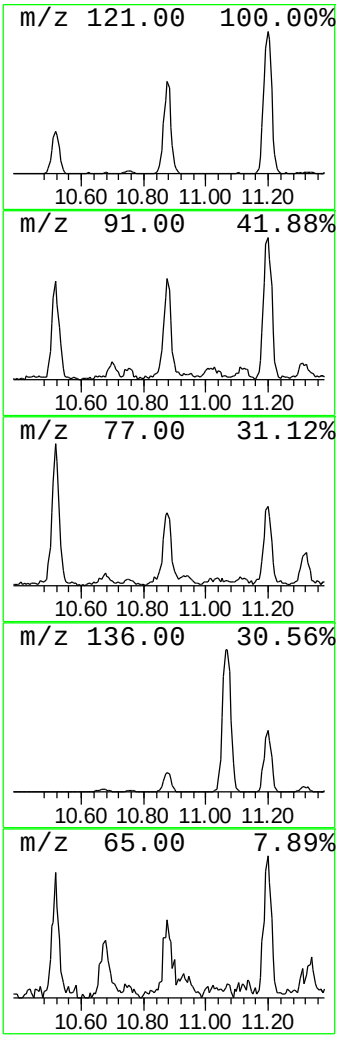
**********

Peak Number 26 Phenol, 2-ethyl-6-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.88 | 14.13 ng/ul | 207297 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-ethyl-6-methyl- | 136 | C9H12O | 001687-64-5 | 91 |
| 2 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 86 |
| 3 | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16 | 000099-86-5 | 86 |
| 4 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 80 |
| 5 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 80 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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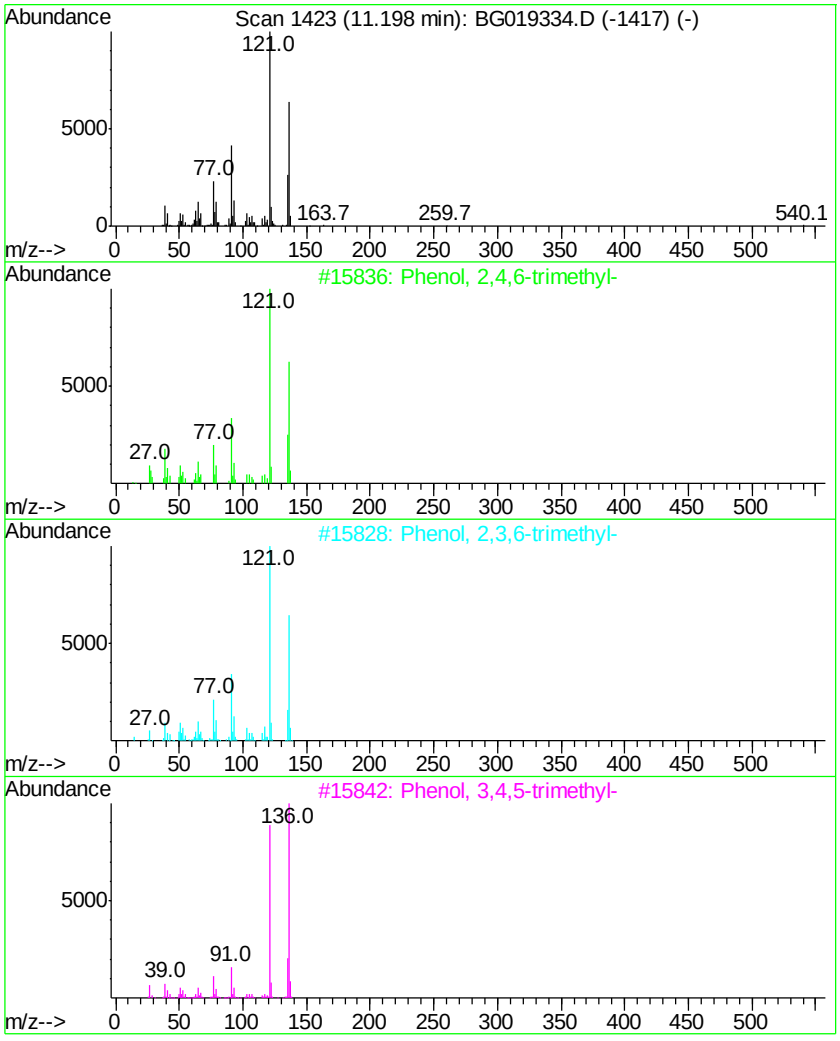
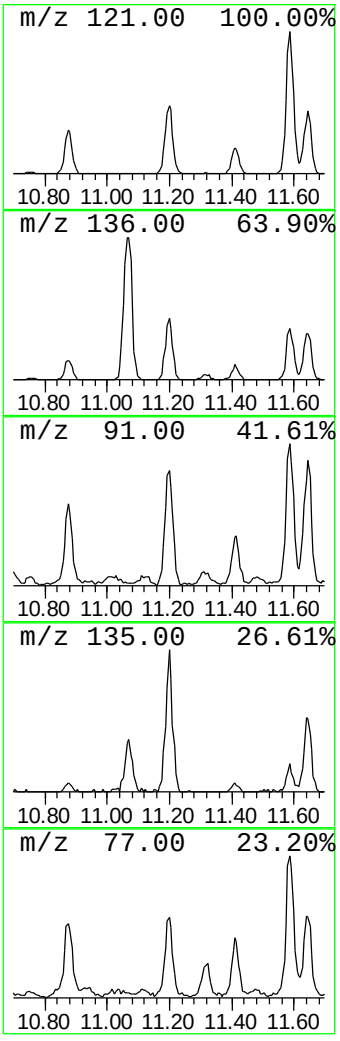
Peak Number 27 Phenol, 2,4,6-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 28.33 ng/ul | 415433 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 96 |
| 2 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 93 |
| 3 | Phenol, 3,4,5-trimethyl- | 136 | C9H12O | 000527-54-8 | 93 |
| 4 | Phenol, 2,4,6-trimethyl- | 136 | C9H12O | 000527-60-6 | 93 |
| 5 | Phenol, 2,3,6-trimethyl- | 136 | C9H12O | 002416-94-6 | 93 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

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

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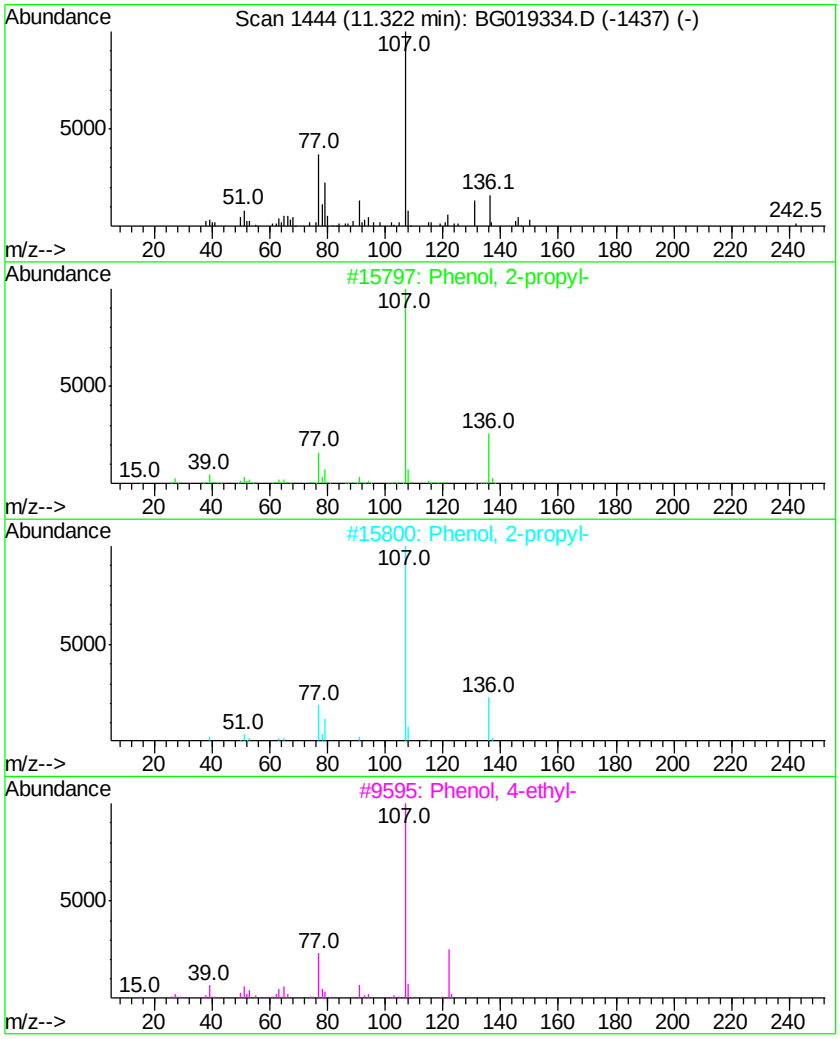
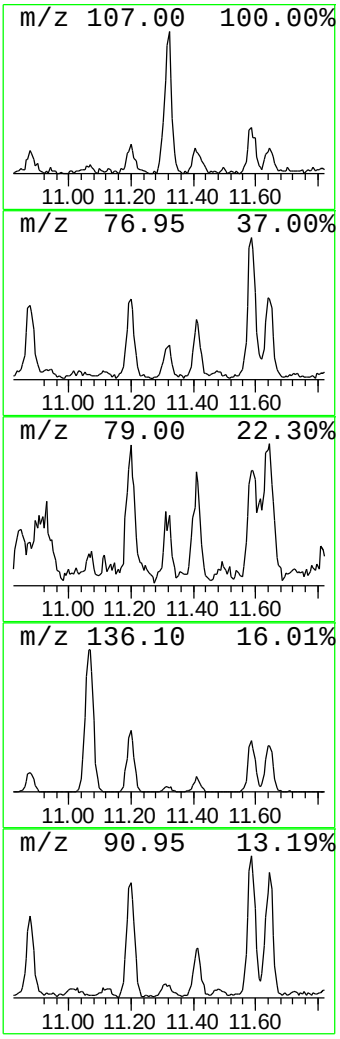
Peak Number 28 Phenol, 2-propyl- Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.32 | 7.12 ng/ul | 104393 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-propyl- | 136 | C9H12O | 000644-35-9 | 50 |
| 2 | Phenol, 2-propyl- | 136 | C9H12O | 000644-35-9 | 50 |
| 3 | Phenol, 4-ethyl- | 122 | C8H10O | 000123-07-9 | 49 |
| 4 | Furan, 2-(1-pentenyl)-, (Z)- | 136 | C9H12O | 020992-60-3 | 45 |
| 5 | 1-(4-Ethoxyphenyl)-2-propanol | 180 | C11H16O2 | 1000123-12-7 | 45 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

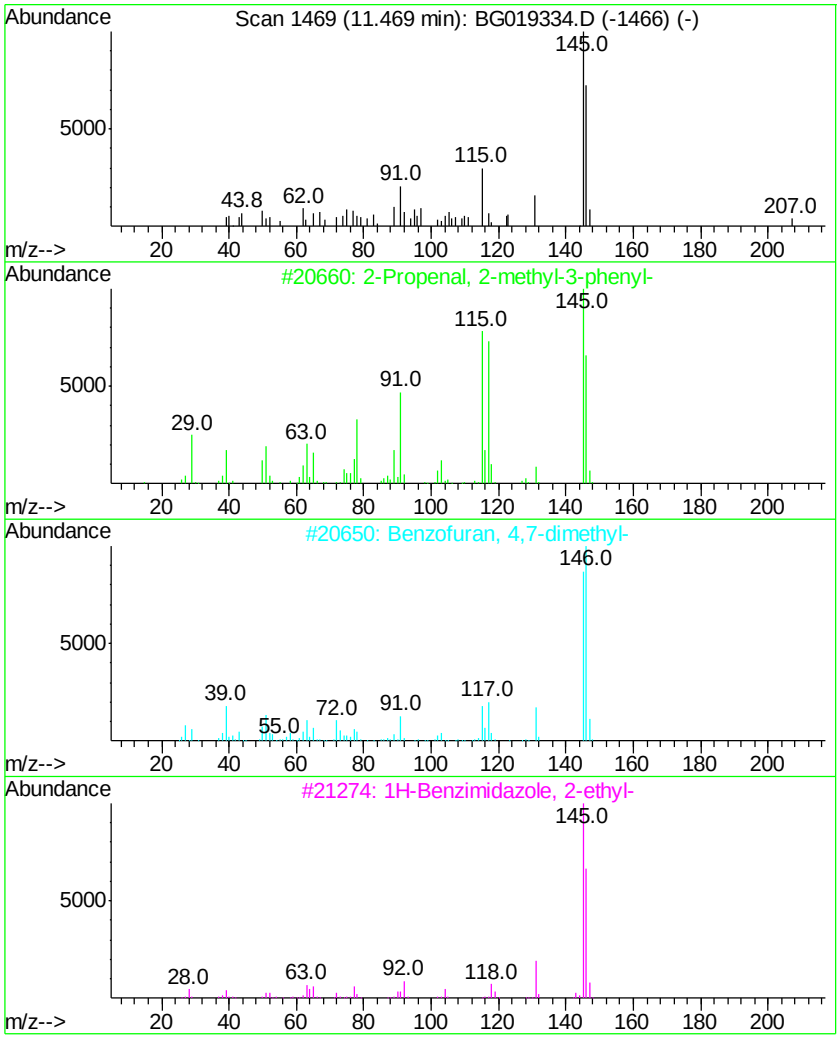
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

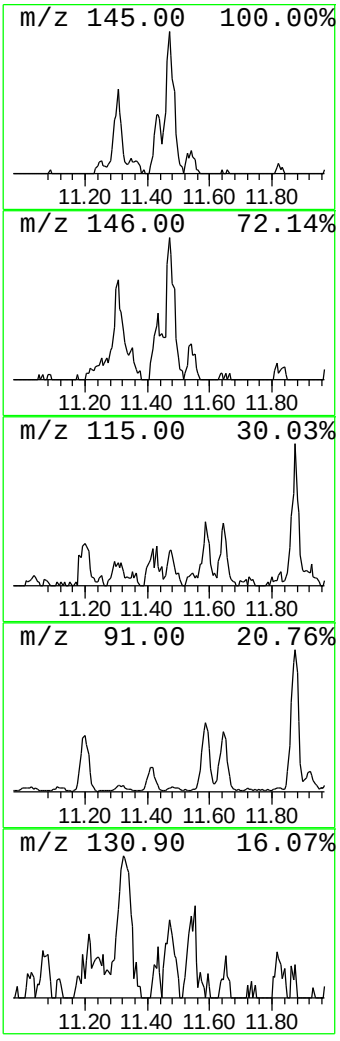
**********

Peak Number 30 2-Propenal, 2-methyl-3-phenyl- Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.47 | 3.68 ng/ul | 53934 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenal, 2-methyl-3-phenyl- | 146 | C10H10O | 000101-39-3 | 64 |
| 2 | Benzofuran, 4,7-dimethyl- | 146 | C10H10O | 028715-26-6 | 64 |
| 3 | 1H-Benzimidazole, 2-ethyl- | 146 | C9H10N2 | 001848-84-6 | 50 |
| 4 | 1H-Benzimidazole, 2-ethyl- | 146 | C9H10N2 | 001848-84-6 | 47 |
| 5 | p-Propargyloxytoluene | 146 | C10H10O | 005651-90-1 | 43 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.M
Quant Title : SVOA CALIBRATION

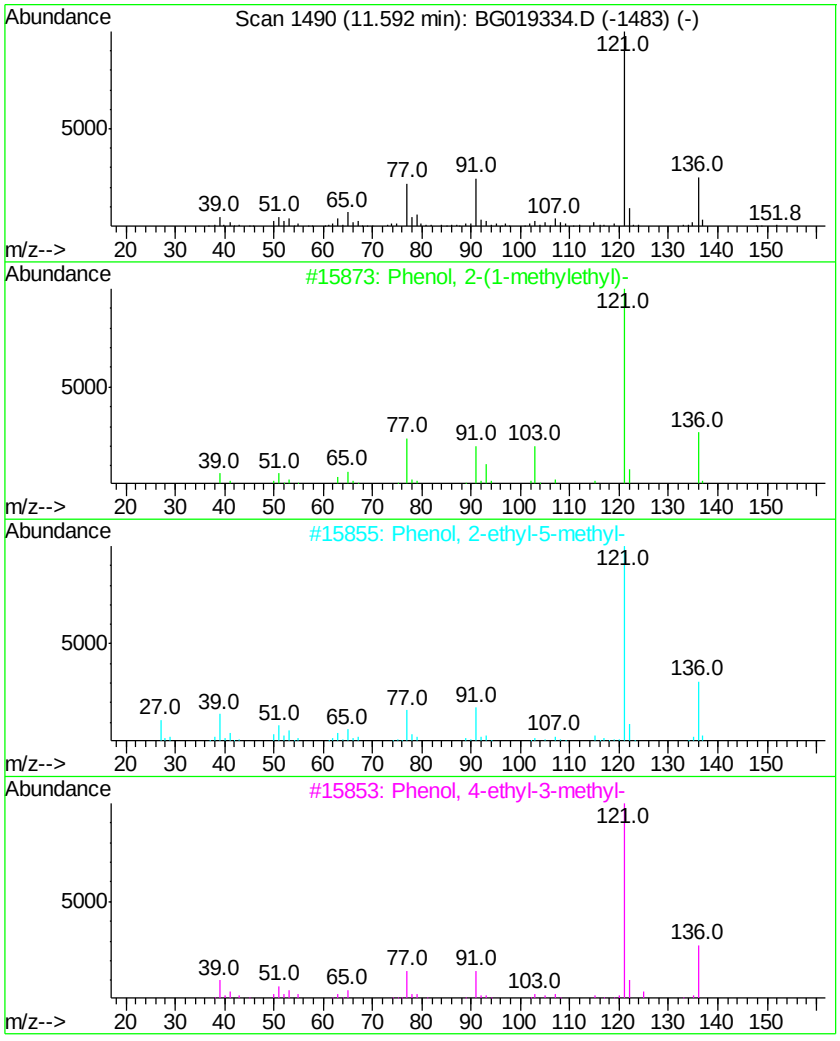
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

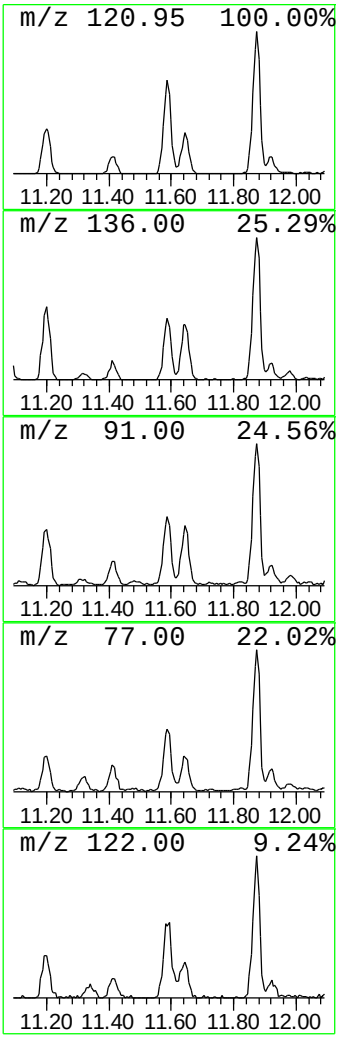
**********

Peak Number 31 Phenol, 2-(1-methylethyl)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.59 | 33.72 ng/ul | 494547 | Naphthalene-d8 | 11.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-(1-methylethyl)- | 136 | C9H12O | 000088-69-7 | 90 |
| 2 | Phenol, 2-ethyl-5-methyl- | 136 | C9H12O | 001687-61-2 | 90 |
| 3 | Phenol, 4-ethyl-3-methyl- | 136 | C9H12O | 001123-94-0 | 87 |
| 4 | 1,3-Cyclohexadiene, 1,3,5,5-tetr... | 136 | C10H16 | 004724-89-4 | 86 |
| 5 | Phenol, 2,4,5-trimethyl- | 136 | C9H12O | 000496-78-6 | 83 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG102315\
Data File : BG019334.D
Acq On : 24 Oct 2015 13:36
Operator : UM/NP
Sample : G4057-18DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** E5LQ0DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG102315.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 |
| unknown-01 | 3.29 | 12.6 | ng/ul | 150087 | 1 | 8.24 | 237616 | 20.0 |
| Cyclopentane, 1,2... | 7.63 | 5.0 | ng/ul | 59201 | 1 | 8.24 | 237616 | 20.0 |
| unknown-02 | 7.88 | 2.6 | ng/ul | 30816 | 1 | 8.24 | 237616 | 20.0 |
| unknown-03 | 7.97 | 2.2 | ng/ul | 26409 | 1 | 8.24 | 237616 | 20.0 |
| cis-4-Nonene | 8.05 | 4.6 | ng/ul | 54993 | 1 | 8.24 | 237616 | 20.0 |
| 2-Cyclopenten-1-o... | 8.51 | 18.4 | ng/ul | 218261 | 1 | 8.24 | 237616 | 20.0 |
| unknown-04 | 8.55 | 8.2 | ng/ul | 97116 | 1 | 8.24 | 237616 | 20.0 |
| unknown-05 | 8.62 | 4.5 | ng/ul | 52866 | 1 | 8.24 | 237616 | 20.0 |
| Benzene,1-ethynyl... | 8.78 | 3.0 | ng/ul | 35300 | 1 | 8.24 | 237616 | 20.0 |
| Cyclooctane, 1,2-... | 9.21 | 5.8 | ng/ul | 69418 | 1 | 8.24 | 237616 | 20.0 |
| unknown-06 | 9.27 | 2.4 | ng/ul | 28704 | 1 | 8.24 | 237616 | 20.0 |
| unknown-07 | 9.32 | 9.4 | ng/ul | 112156 | 1 | 8.24 | 237616 | 20.0 |
| Ethanone, 1-(1-cy... | 9.35 | 10.9 | ng/ul | 129495 | 1 | 8.24 | 237616 | 20.0 |
| unknown-08 | 9.52 | 10.3 | ng/ul | 121864 | 1 | 8.24 | 237616 | 20.0 |
| unknown-09 | 9.57 | 3.6 | ng/ul | 42747 | 1 | 8.24 | 237616 | 20.0 |
| unknown-10 | 9.61 | 5.5 | ng/ul | 65643 | 1 | 8.24 | 237616 | 20.0 |
| Phenol, 2,6-dimet... | 9.66 | 33.8 | ng/ul | 495270 | 2 | 11.06 | 293327 | 20.0 |
| Benzofuran, 3-met... | 9.72 | 4.9 | ng/ul | 71814 | 2 | 11.06 | 293327 | 20.0 |
| 3-Phenyl-2-propyn... | 9.79 | 11.8 | ng/ul | 172383 | 2 | 11.06 | 293327 | 20.0 |
| unknown-11 | 10.01 | 10.8 | ng/ul | 158055 | 2 | 11.06 | 293327 | 20.0 |
| 1,3-Hexadiene, 3-... | 10.29 | 4.8 | ng/ul | 70647 | 2 | 11.06 | 293327 | 20.0 |
| Methyl 6-(2-furoy... | 10.34 | 8.3 | ng/ul | 121524 | 2 | 11.06 | 293327 | 20.0 |
| Phenol, 3,5-dimet... | 10.52 | 25.2 | ng/ul | 369410 | 2 | 11.06 | 293327 | 20.0 |
| unknown-12 | 10.75 | 2.5 | ng/ul | 37425 | 2 | 11.06 | 293327 | 20.0 |
| Phenol, 2-ethyl-6... | 10.88 | 14.1 | ng/ul | 207297 | 2 | 11.06 | 293327 | 20.0 |
| Phenol, 2,4,6-tri... | 11.20 | 28.3 | ng/ul | 415433 | 2 | 11.06 | 293327 | 20.0 |
| Phenol, 2-propyl- | 11.32 | 7.1 | ng/ul | 104393 | 2 | 11.06 | 293327 | 20.0 |
| 2-Propenal, 2-met... | 11.47 | 3.7 | ng/ul | 53934 | 2 | 11.06 | 293327 | 20.0 |
| Phenol, 2-(1-meth... | 11.59 | 33.7 | ng/ul | 494547 | 2 | 11.06 | 293327 | 20.0 |