LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

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_N\METHODS\SOM-EPA-BN031918.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 | 4.696 | 207 | 214 | 221 | rVV | 597895 | 904475 | 1.35% | 0.202% |
| 2 | 5.408 | 329 | 335 | 347 | rVV2 | 1361569 | 2210129 | 3.30% | 0.493% |
| 3 | 6.860 | 575 | 582 | 593 | rVV | 1836785 | 3162608 | 4.73% | 0.706% |
| 4 | 7.113 | 619 | 625 | 633 | rVB | 983952 | 1525645 | 2.28% | 0.340% |
| 5 | 7.472 | 682 | 686 | 691 | rVV | 767621 | 1361695 | 2.04% | 0.304% |
| 6 | 7.525 | 691 | 695 | 702 | rVB2 | 1122945 | 1769125 | 2.64% | 0.395% |
| 7 | 7.613 | 702 | 710 | 712 | rBV2 | 583908 | 1012391 | 1.51% | 0.226% |
| 8 | 7.643 | 712 | 715 | 721 | rVB | 1315214 | 1902213 | 2.84% | 0.424% |
| 9 | 7.760 | 730 | 735 | 739 | rVV | 1341587 | 2861262 | 4.28% | 0.638% |
| 10 | 7.813 | 740 | 744 | 753 | rVB | 3388211 | 5306696 | 7.93% | 1.184% |
| 11 | 8.049 | 779 | 784 | 788 | rBV | 933655 | 1452348 | 2.17% | 0.324% |
| 12 | 8.090 | 788 | 791 | 802 | rVB2 | 899166 | 1551835 | 2.32% | 0.346% |
| 13 | 8.419 | 834 | 847 | 850 | rBV | 940697 | 2187658 | 3.27% | 0.488% |
| 14 | 8.496 | 850 | 860 | 864 | rVV | 6652633 | 19143649 | 28.61% | 4.271% |
| 15 | 8.531 | 864 | 866 | 873 | rVB2 | 1071124 | 1342162 | 2.01% | 0.299% |
| 16 | 8.625 | 874 | 882 | 886 | rBV | 7398417 | 14200027 | 21.22% | 3.168% |
| 17 | 8.660 | 886 | 888 | 896 | rVB | 1632260 | 2352062 | 3.52% | 0.525% |
| 18 | 8.872 | 915 | 924 | 934 | rBV | 7899818 | 17148354 | 25.63% | 3.826% |
| 19 | 9.013 | 943 | 948 | 951 | rBV | 637439 | 1225804 | 1.83% | 0.273% |
| 20 | 9.049 | 951 | 954 | 960 | rVV2 | 1125971 | 2089933 | 3.12% | 0.466% |
| 21 | 9.113 | 960 | 965 | 967 | rVV3 | 421520 | 864099 | 1.29% | 0.193% |
| 22 | 9.149 | 967 | 971 | 976 | rVB | 1011171 | 1645269 | 2.46% | 0.367% |
| 23 | 9.219 | 976 | 983 | 994 | rVB2 | 1081712 | 2235405 | 3.34% | 0.499% |
| 24 | 9.543 | 1030 | 1038 | 1043 | rVB2 | 2075854 | 3939724 | 5.89% | 0.879% |
| 25 | 9.796 | 1067 | 1081 | 1085 | rBV3 | 1103605 | 3119009 | 4.66% | 0.696% |
| 26 | 9.854 | 1085 | 1091 | 1099 | rVV3 | 2542662 | 8589920 | 12.84% | 1.916% |
| 27 | 9.949 | 1102 | 1107 | 1112 | rVV5 | 2216389 | 7128419 | 10.65% | 1.590% |
| 28 | 10.025 | 1116 | 1120 | 1127 | rVV3 | 3296849 | 8685601 | 12.98% | 1.938% |
| 29 | 10.119 | 1132 | 1136 | 1139 | rBV | 543971 | 864746 | 1.29% | 0.193% |
| 30 | 10.172 | 1139 | 1145 | 1148 | rVV | 1784304 | 3180903 | 4.75% | 0.710% |
| 31 | 10.213 | 1148 | 1152 | 1158 | rVB | 1568344 | 2477626 | 3.70% | 0.553% |
| 32 | 10.290 | 1158 | 1165 | 1174 | rBV3 | 3550050 | 9623598 | 14.38% | 2.147% |
| 33 | 10.366 | 1174 | 1178 | 1185 | rVV3 | 1526783 | 3526769 | 5.27% | 0.787% |
| 34 | 10.496 | 1192 | 1200 | 1207 | rBV7 | 519736 | 1594977 | 2.38% | 0.356% |

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

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_N\METHODS\SOM-EPA-BN031918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.654 | 1221 | 1227 | 1237 | rBV9 | 494278 | 1609984 | 2.41% | 0.359% |
| 36 | 10.772 | 1237 | 1247 | 1253 | rBV2 | 3349398 | 7518892 | 11.24% | 1.677% |
| 37 | 10.907 | 1265 | 1270 | 1281 | rVB7 | 735916 | 2177353 | 3.25% | 0.486% |
| 38 | 11.001 | 1281 | 1286 | 1292 | rBV2 | 1439687 | 2486223 | 3.72% | 0.555% |
| 39 | 11.119 | 1301 | 1306 | 1309 | rBV4 | 742318 | 1366398 | 2.04% | 0.305% |
| 40 | 11.219 | 1318 | 1323 | 1326 | rBV | 1644534 | 2577587 | 3.85% | 0.575% |
| 41 | 11.266 | 1328 | 1331 | 1336 | rVB2 | 1616164 | 2643803 | 3.95% | 0.590% |
| 42 | 11.337 | 1340 | 1343 | 1347 | rBV2 | 562200 | 761757 | 1.14% | 0.170% |
| 43 | 11.472 | 1361 | 1366 | 1370 | rBV | 833633 | 1510447 | 2.26% | 0.337% |
| 44 | 11.525 | 1370 | 1375 | 1378 | rBV3 | 1257657 | 2280954 | 3.41% | 0.509% |
| 45 | 11.601 | 1379 | 1388 | 1392 | rVV | 3038070 | 5892885 | 8.81% | 1.315% |
| 46 | 11.731 | 1403 | 1410 | 1414 | rBV2 | 1043762 | 1897498 | 2.84% | 0.423% |
| 47 | 11.837 | 1422 | 1428 | 1436 | rVB5 | 910459 | 2552425 | 3.81% | 0.569% |
| 48 | 11.972 | 1445 | 1451 | 1457 | rBV3 | 954175 | 1785569 | 2.67% | 0.398% |
| 49 | 12.107 | 1467 | 1474 | 1479 | rBV8 | 936790 | 2698264 | 4.03% | 0.602% |
| 50 | 12.178 | 1482 | 1486 | 1490 | rVV2 | 1840963 | 3174668 | 4.74% | 0.708% |
| 51 | 12.225 | 1490 | 1494 | 1498 | rVB3 | 814844 | 1261686 | 1.89% | 0.281% |
| 52 | 12.466 | 1530 | 1535 | 1540 | rVB2 | 2803054 | 4184083 | 6.25% | 0.933% |
| 53 | 12.578 | 1549 | 1554 | 1557 | rBV2 | 727521 | 1223547 | 1.83% | 0.273% |
| 54 | 12.660 | 1559 | 1568 | 1577 | rVB4 | 2039790 | 5335062 | 7.97% | 1.190% |
| 55 | 12.766 | 1579 | 1586 | 1590 | rBV2 | 2469096 | 4678957 | 6.99% | 1.044% |
| 56 | 12.807 | 1590 | 1593 | 1598 | rVB4 | 715758 | 1135507 | 1.70% | 0.253% |
| 57 | 12.890 | 1604 | 1607 | 1612 | rVB3 | 710290 | 1011271 | 1.51% | 0.226% |
| 58 | 12.984 | 1619 | 1623 | 1627 | rVV | 801271 | 1505705 | 2.25% | 0.336% |
| 59 | 13.031 | 1627 | 1631 | 1638 | rVB5 | 1062849 | 2183323 | 3.26% | 0.487% |
| 60 | 13.219 | 1655 | 1663 | 1672 | rVB5 | 1340711 | 3604072 | 5.39% | 0.804% |
| 61 | 13.295 | 1672 | 1676 | 1679 | rVB3 | 582472 | 746801 | 1.12% | 0.167% |
| 62 | 13.337 | 1679 | 1683 | 1687 | rVB2 | 587834 | 840910 | 1.26% | 0.188% |
| 63 | 13.401 | 1688 | 1694 | 1698 | rBV3 | 875647 | 1908270 | 2.85% | 0.426% |
| 64 | 13.454 | 1699 | 1703 | 1706 | rVV2 | 701217 | 1034200 | 1.55% | 0.231% |
| 65 | 13.495 | 1707 | 1710 | 1715 | rVV6 | 558574 | 797591 | 1.19% | 0.178% |
| 66 | 13.560 | 1718 | 1721 | 1725 | rVV2 | 537321 | 863434 | 1.29% | 0.193% |
| 67 | 13.631 | 1727 | 1733 | 1738 | rVB | 2575733 | 5066478 | 7.57% | 1.130% |
| 68 | 13.690 | 1738 | 1743 | 1751 | rBV3 | 1087702 | 2431324 | 3.63% | 0.542% |
| 69 | 13.778 | 1752 | 1758 | 1763 | rBV2 | 1922851 | 3346026 | 5.00% | 0.746% |
| 70 | 13.866 | 1769 | 1773 | 1777 | rBV5 | 677344 | 1371705 | 2.05% | 0.306% |
| 71 | 14.084 | 1796 | 1810 | 1817 | rBV5 | 2490363 | 7654167 | 11.44% | 1.708% |

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

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_N\METHODS\SOM-EPA-BN031918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.225 | 1823 | 1834 | 1843 | rBV2 | 1539045 | 5683422 | 8.49% | 1.268% |
| 73 | 14.407 | 1859 | 1865 | 1869 | rBV3 | 2358946 | 4875081 | 7.29% | 1.088% |
| 74 | 14.566 | 1889 | 1892 | 1896 | rBV2 | 480869 | 813976 | 1.22% | 0.182% |
| 75 | 14.713 | 1913 | 1917 | 1918 | rBV2 | 680983 | 911312 | 1.36% | 0.203% |
| 76 | 14.742 | 1918 | 1922 | 1927 | rVB2 | 2682403 | 4192587 | 6.27% | 0.935% |
| 77 | 14.866 | 1939 | 1943 | 1947 | rBV3 | 771052 | 1492104 | 2.23% | 0.333% |
| 78 | 15.042 | 1967 | 1973 | 1980 | rBV3 | 1969656 | 4331263 | 6.47% | 0.966% |
| 79 | 15.260 | 2007 | 2010 | 2016 | rBV6 | 509110 | 1092651 | 1.63% | 0.244% |
| 80 | 15.372 | 2022 | 2029 | 2049 | rVB10 | 4122215 | 18465047 | 27.60% | 4.119% |
| 81 | 15.542 | 2052 | 2058 | 2061 | rVV2 | 1666916 | 3343696 | 5.00% | 0.746% |
| 82 | 15.589 | 2061 | 2066 | 2070 | rVV2 | 2599829 | 5609148 | 8.38% | 1.251% |
| 83 | 15.713 | 2074 | 2087 | 2092 | rVB2 | 13249167 | 49877668 | 74.54% | 11.128% |
| 84 | 15.772 | 2092 | 2097 | 2101 | rBV | 1662805 | 2407870 | 3.60% | 0.537% |
| 85 | 15.866 | 2110 | 2113 | 2118 | rVB3 | 1136725 | 1563129 | 2.34% | 0.349% |
| 86 | 16.031 | 2136 | 2141 | 2146 | rBV2 | 1437586 | 2368864 | 3.54% | 0.528% |
| 87 | 16.089 | 2147 | 2151 | 2154 | rBV4 | 583103 | 837379 | 1.25% | 0.187% |
| 88 | 16.166 | 2160 | 2164 | 2170 | rVB | 2276695 | 3489413 | 5.21% | 0.778% |
| 89 | 17.013 | 2301 | 2308 | 2324 | rVB4 | 2257183 | 9126212 | 13.64% | 2.036% |
| 90 | 17.278 | 2349 | 2353 | 2357 | rBV4 | 534684 | 1021172 | 1.53% | 0.228% |
| 91 | 17.483 | 2371 | 2388 | 2390 | rBV2 | 14641802 | 66912030 | 100.00% | 14.928% |
| 92 | 17.836 | 2444 | 2448 | 2458 | rVB2 | 2410281 | 4368642 | 6.53% | 0.975% |
| 93 | 17.930 | 2459 | 2464 | 2468 | rBV2 | 1296207 | 2146091 | 3.21% | 0.479% |
| 94 | 18.142 | 2496 | 2500 | 2504 | rBV3 | 517207 | 1073939 | 1.61% | 0.240% |
| 95 | 18.207 | 2506 | 2511 | 2518 | rVB2 | 1715045 | 3434279 | 5.13% | 0.766% |
| 96 | 18.348 | 2530 | 2535 | 2544 | rVB5 | 985955 | 1970372 | 2.94% | 0.440% |
| 97 | 20.124 | 2832 | 2837 | 2847 | rVB | 1428479 | 2379320 | 3.56% | 0.531% |
| 98 | 21.889 | 3131 | 3137 | 3141 | rBV | 1863626 | 2815611 | 4.21% | 0.628% |
| 99 | 24.207 | 3525 | 3531 | 3540 | rVB2 | 928098 | 1874021 | 2.80% | 0.418% |
| 100 | 24.365 | 3552 | 3558 | 3567 | rVB2 | 1169633 | 2454400 | 3.67% | 0.548% |

Sum of corrected areas: 448235661

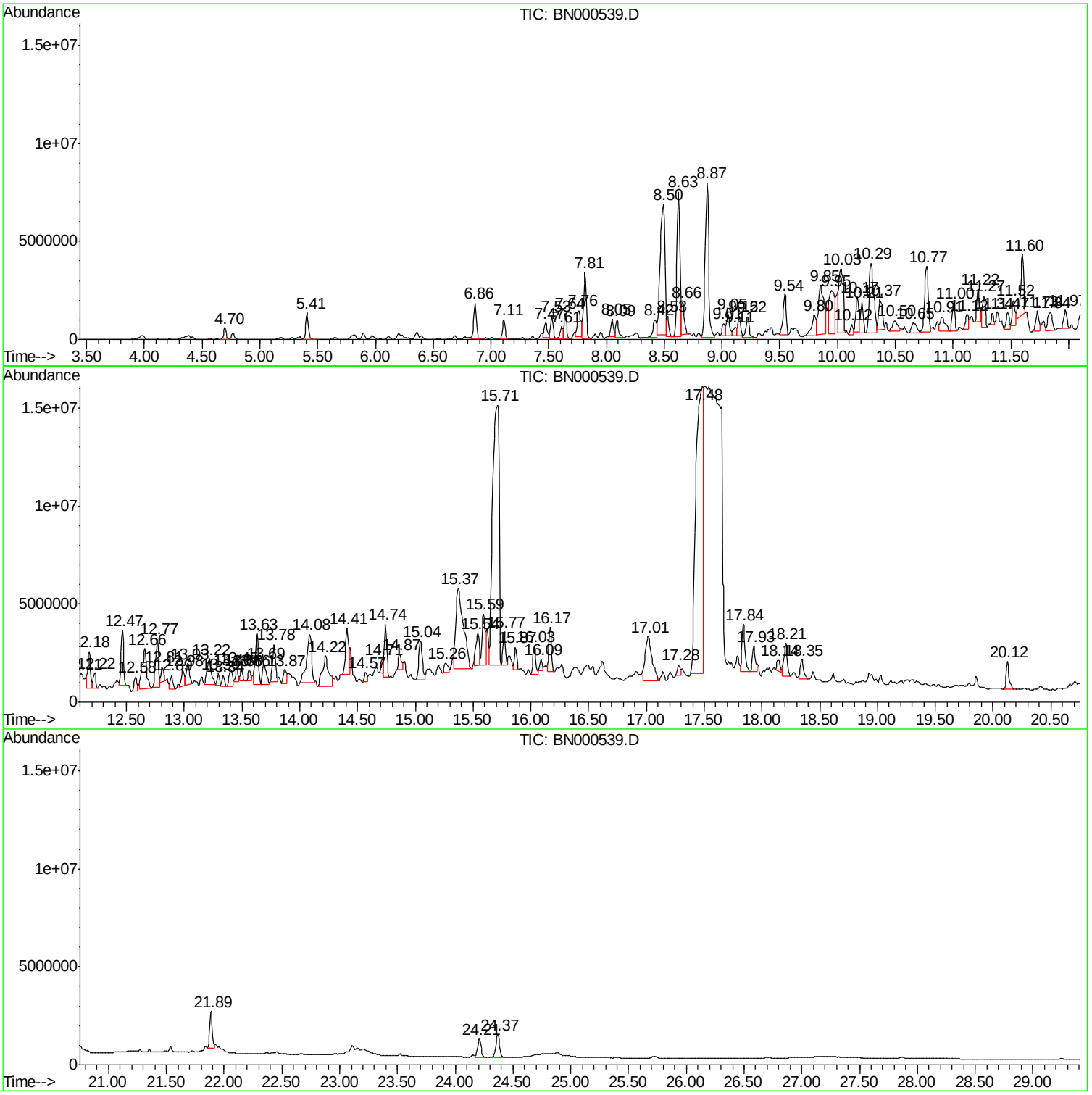
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

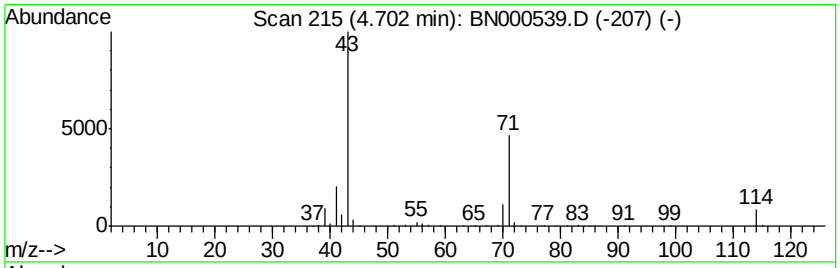
Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

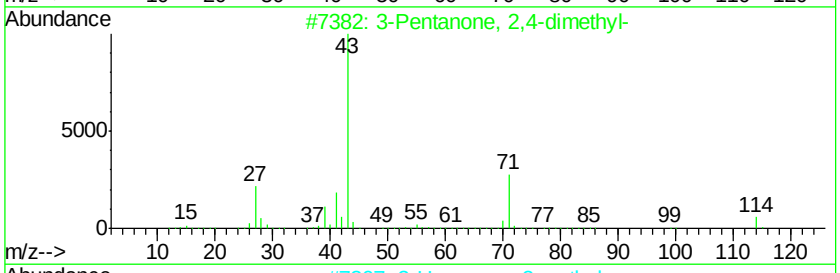
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

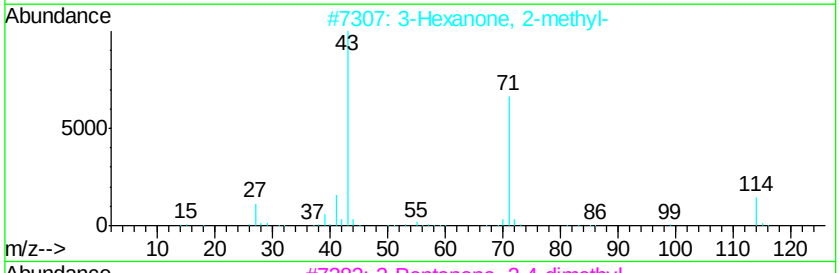
**********
Peak Number 1 3-Pentanone, 2,4-dimethyl- Concentration Rank 56

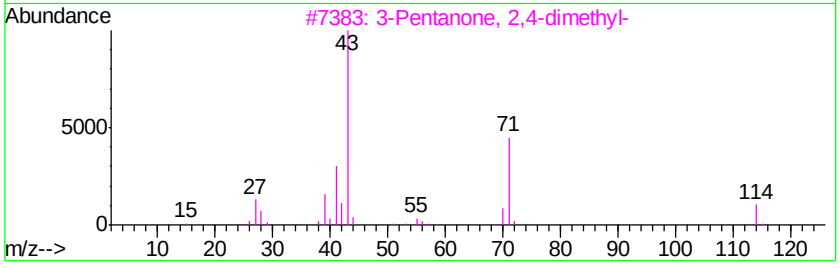
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.70 | 8.27 ng/ul | 904475 | 1,4-Dichlorobenzene-d4 | 8.42 |

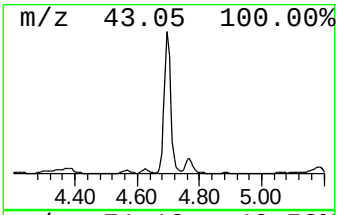
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O | 000565-80-0 | 90 |
| 2 | 3-Hexanone, 2-methyl- | 114 | C7H14O | 007379-12-6 | 78 |
| 3 | 3-Pentanone, 2,4-dimethyl- | 114 | C7H14O | 000565-80-0 | 64 |
| 4 | 3-Hexanone, 2-methyl- | 114 | C7H14O | 007379-12-6 | 59 |
| 5 | 4-Heptanone | 114 | C7H14O | 000123-19-3 | 53 |

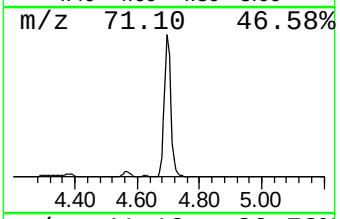


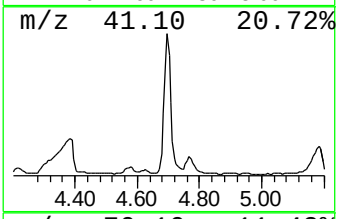



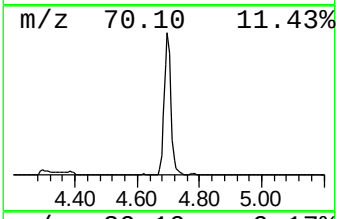



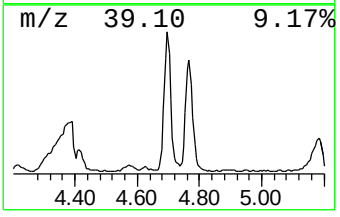



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Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

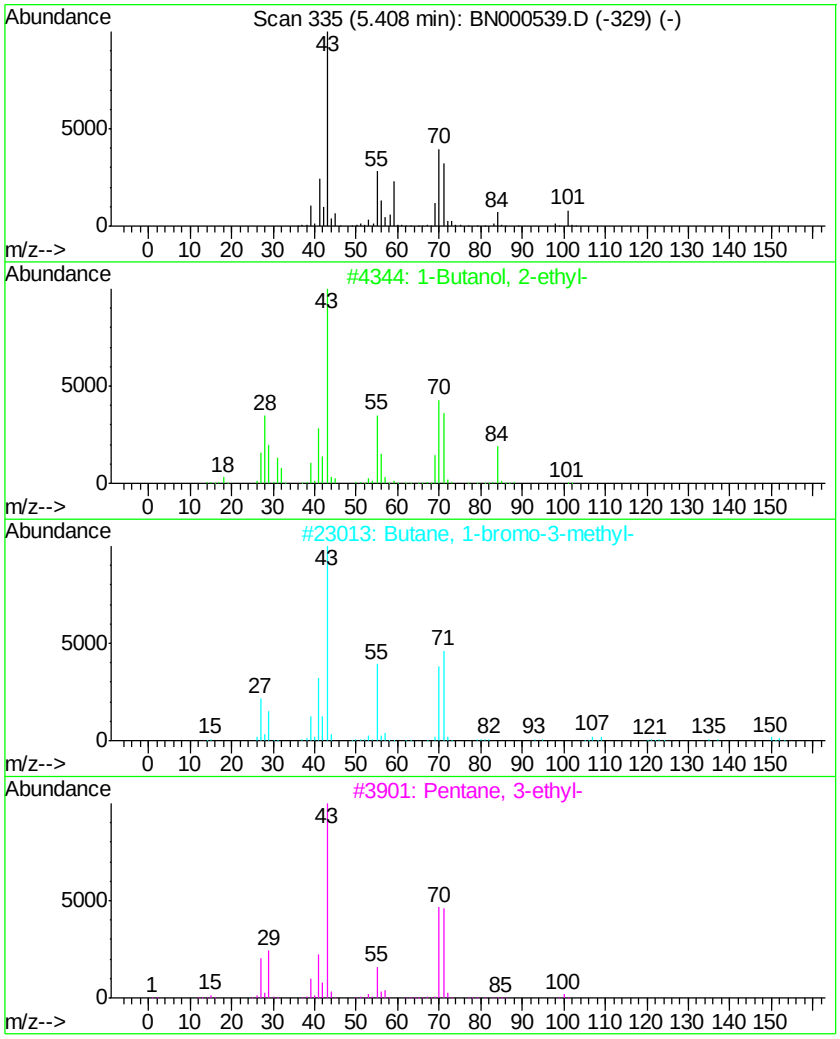
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

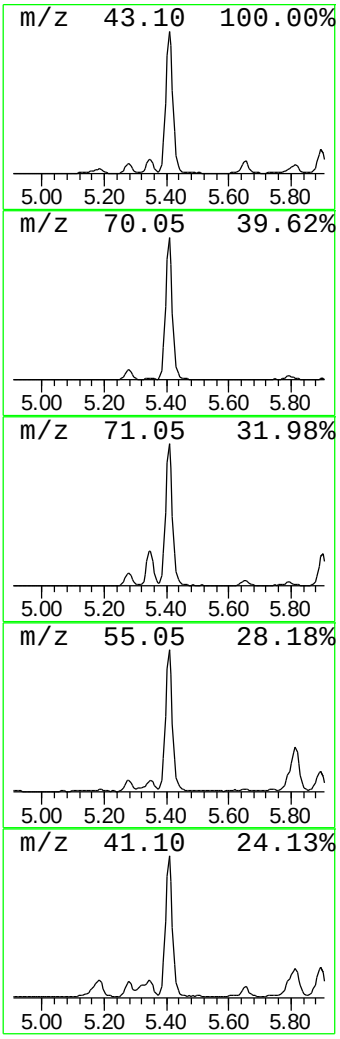
**********

Peak Number 2 1-Butanol, 2-ethyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.41 | 20.21 ng/ul | 2210130 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butanol, 2-ethyl- | 102 | C6H14O | 000097-95-0 | 64 |
| 2 | Butane, 1-bromo-3-methyl- | 150 | C5H11Br | 000107-82-4 | 50 |
| 3 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 50 |
| 4 | 3-Methylheptyl acetate | 172 | C10H20O2 | 072218-58-7 | 42 |
| 5 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 38 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

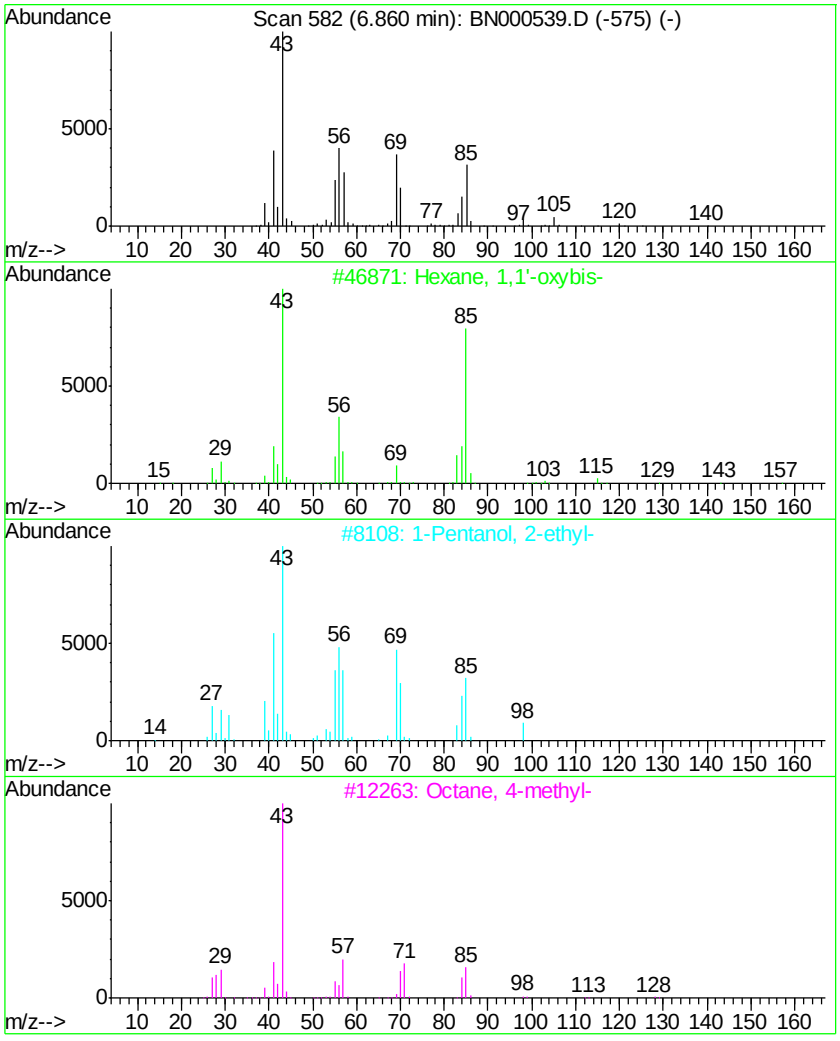
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

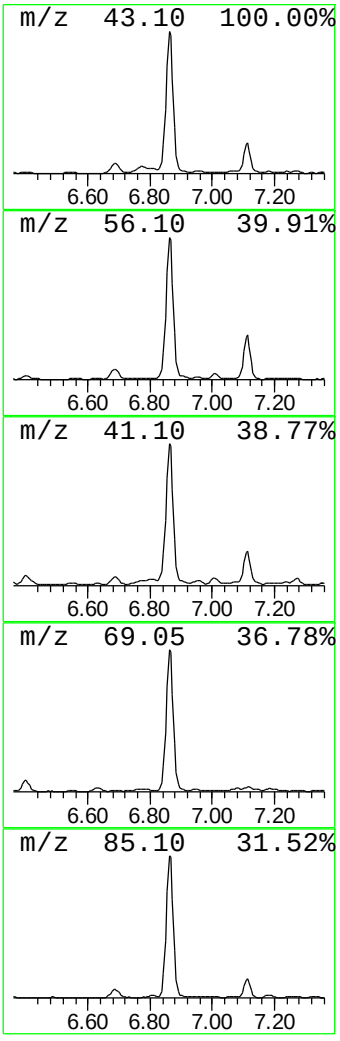
**********

Peak Number 3 Hexane, 1,1'-oxybis- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.86 | 28.91 ng/ul | 3162610 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 1,1'-oxybis- | 186 | C12H26O | 000112-58-3 | 64 |
| 2 | 1-Pentanol, 2-ethyl- | 116 | C7H16O | 027522-11-8 | 56 |
| 3 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 50 |
| 4 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 50 |
| 5 | Hexane, 1-propoxy- | 144 | C9H20O | 053685-78-2 | 47 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

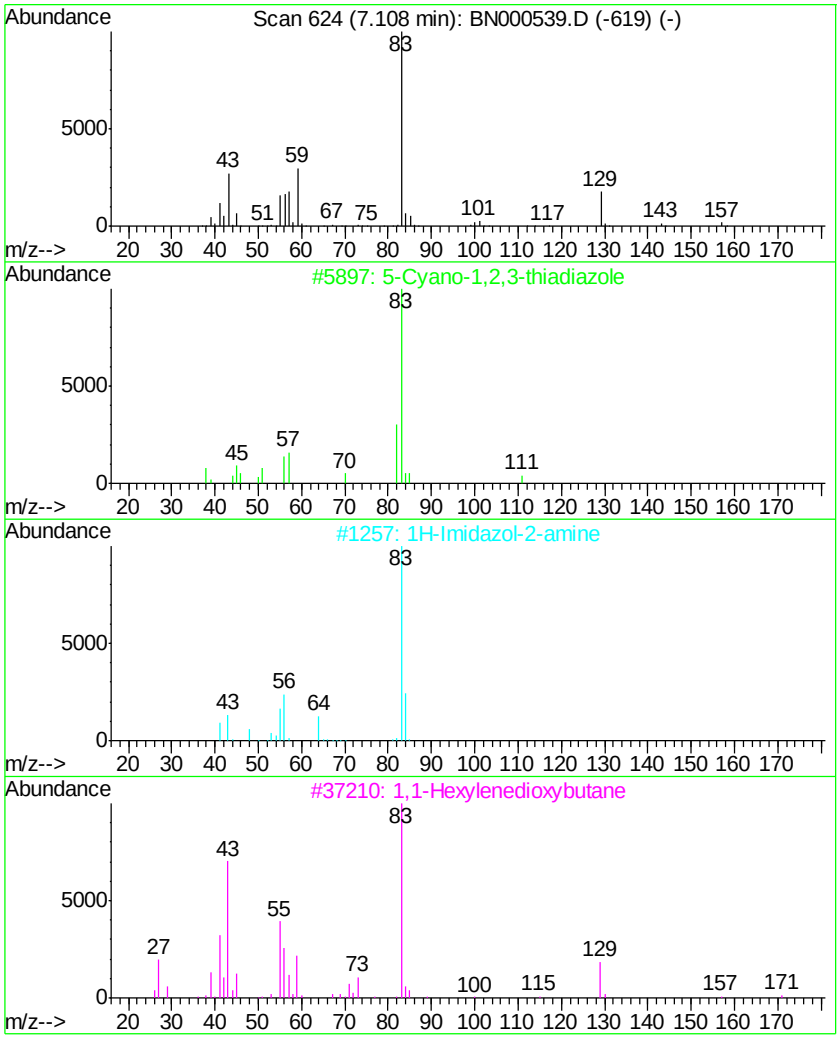
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

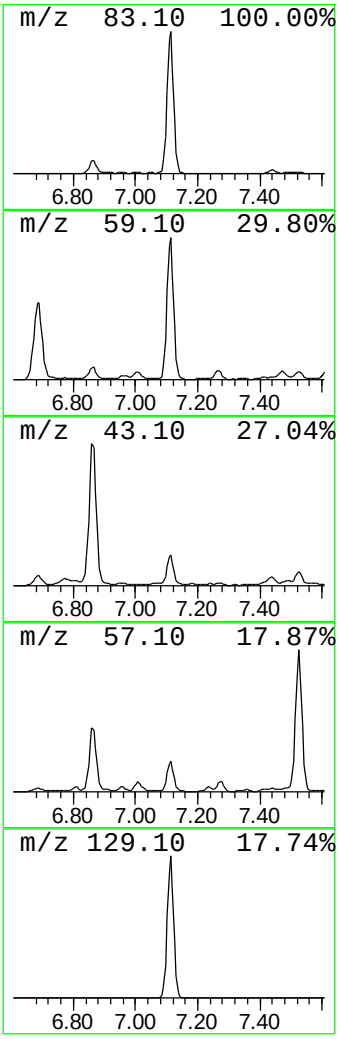
**********

Peak Number 4 unknown-01 Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.11 | 13.95 ng/ul | 1525650 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Cyano-1,2,3-thiadiazole | 111 | C3HN3S | 057352-02-0 | 45 |
| 2 | 1H-Imidazol-2-amine | 83 | C3H5N3 | 007720-39-0 | 38 |
| 3 | 1,1-Hexylenedioxybutane | 172 | C10H20O2 | 1000249-77-4 | 38 |
| 4 | .alpha.-Amino-2,5-dihydro-5-meth... | 157 | C7H11NO3 | 018455-25-9 | 36 |
| 5 | Propanenitrile, 3-ethoxy- | 99 | C5H9NO | 002141-62-0 | 10 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

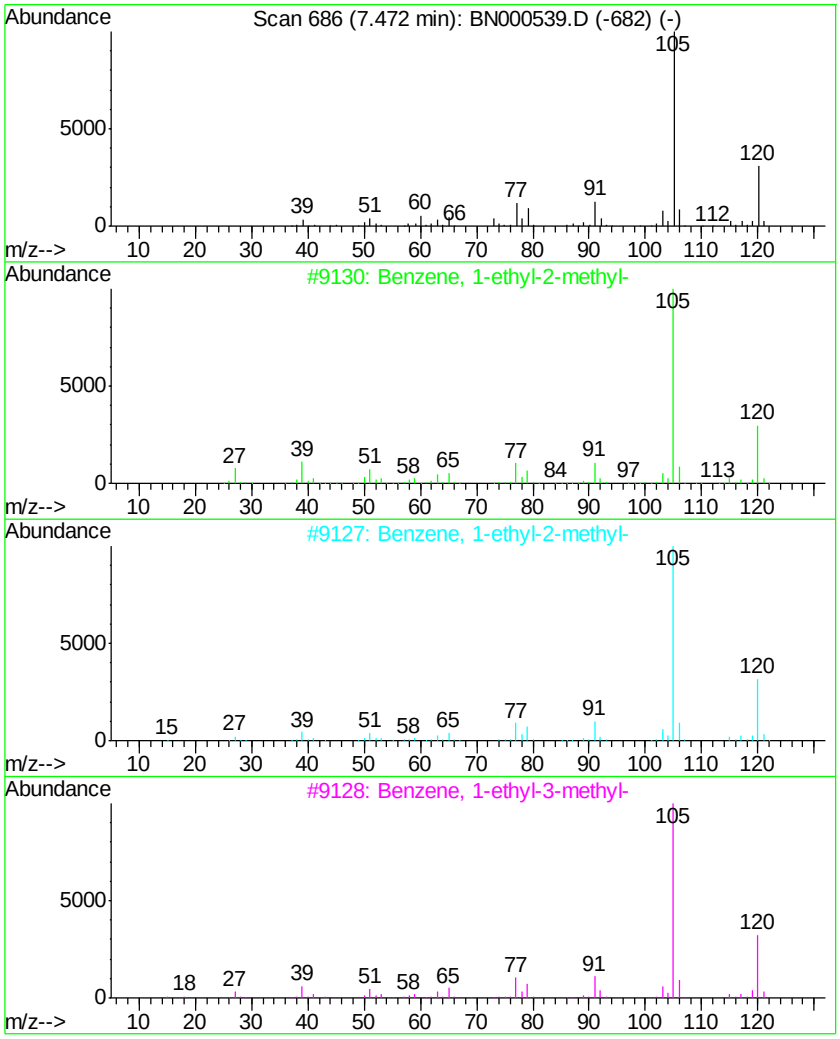
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

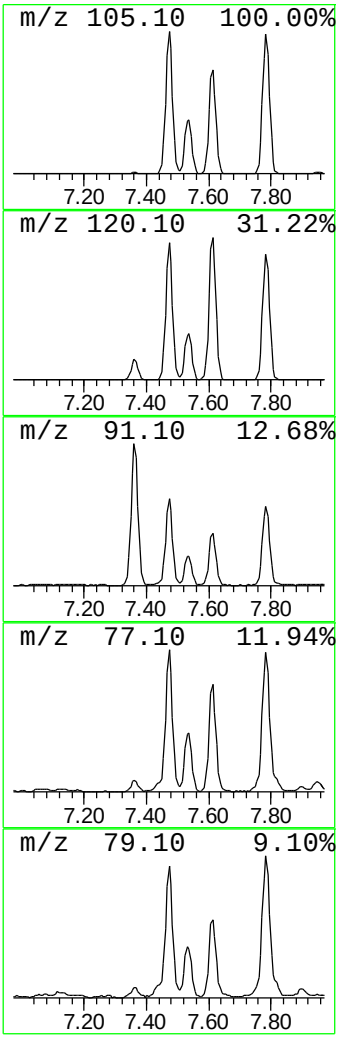
**********

Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.47 | 12.45 ng/ul | 1361700 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 93 |
| 5 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 90 |



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Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

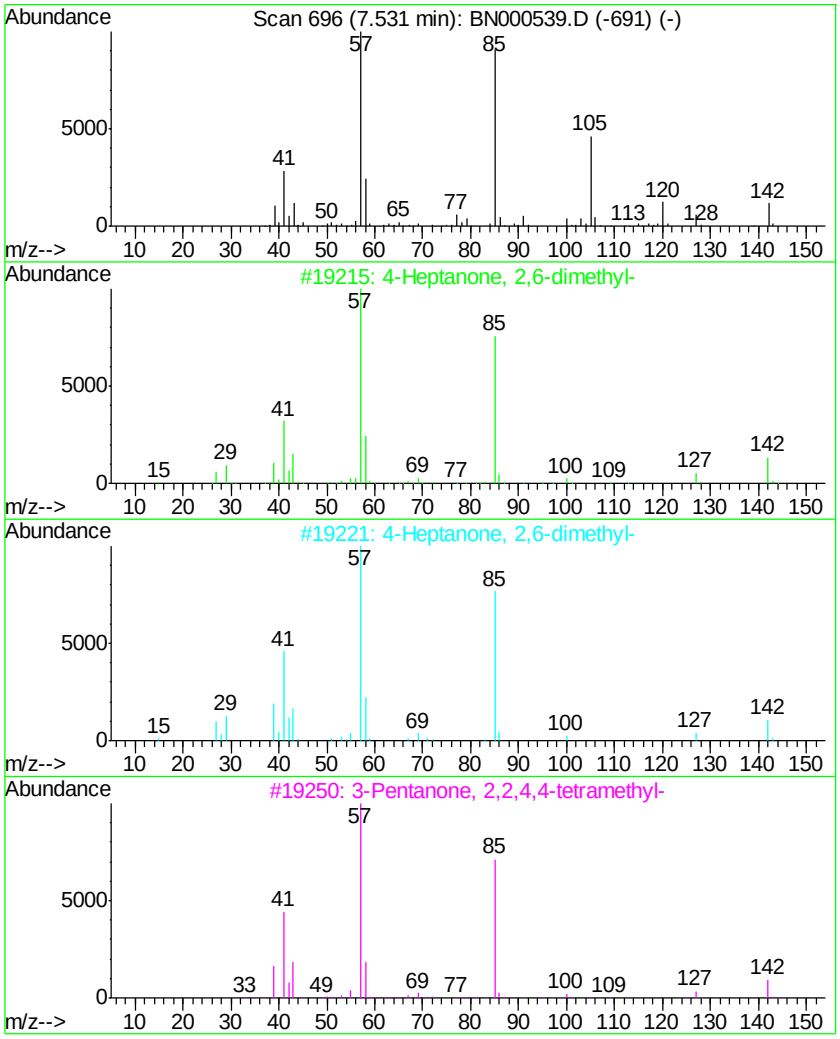
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

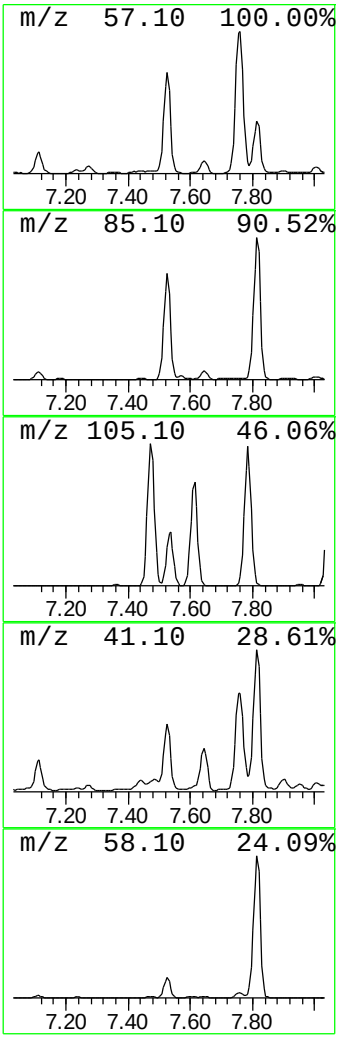
**********

Peak Number 6 4-Heptanone, 2,6-dimethyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.53 | 16.17 ng/ul | 1769130 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Heptanone, 2,6-dimethyl- | 142 | C9H18O | 000108-83-8 | 83 |
| 2 | 4-Heptanone, 2,6-dimethyl- | 142 | C9H18O | 000108-83-8 | 80 |
| 3 | 3-Pentanone, 2,2,4,4-tetramethyl- | 142 | C9H18O | 000815-24-7 | 80 |
| 4 | 4-Octanone, 2-methyl- | 142 | C9H18O | 007492-38-8 | 50 |
| 5 | 2-Methylbutanoic anhydride | 186 | C10H18O3 | 001468-39-9 | 47 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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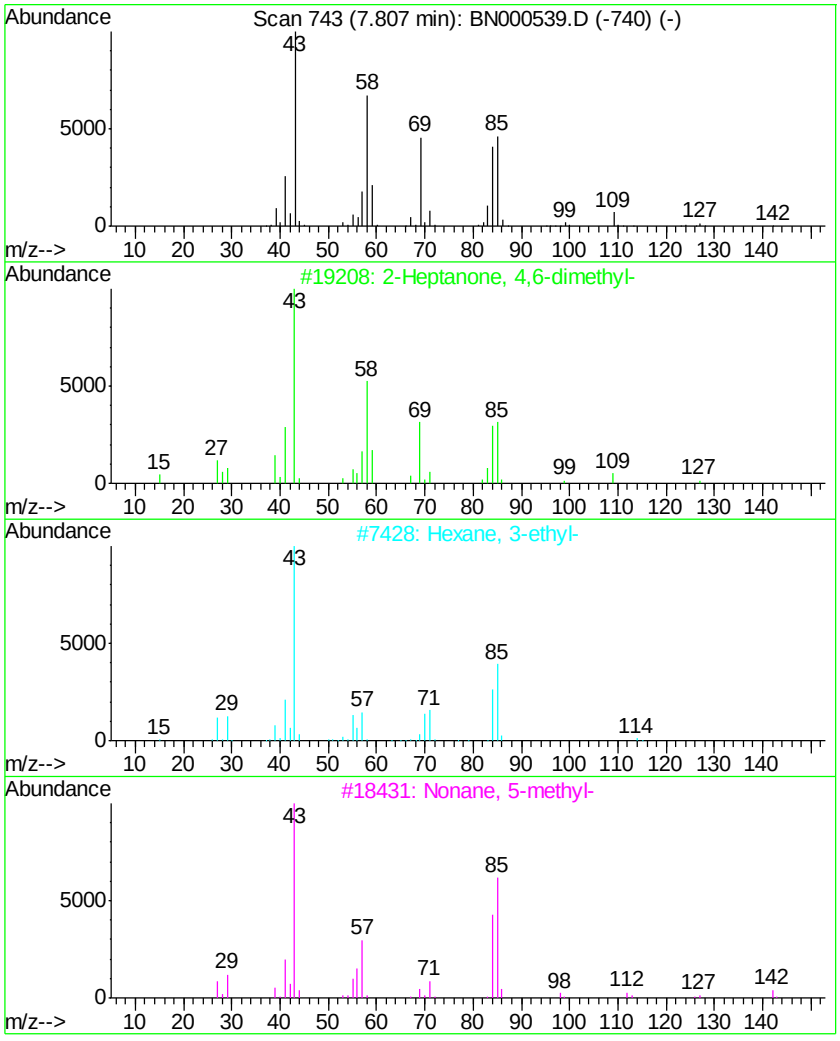
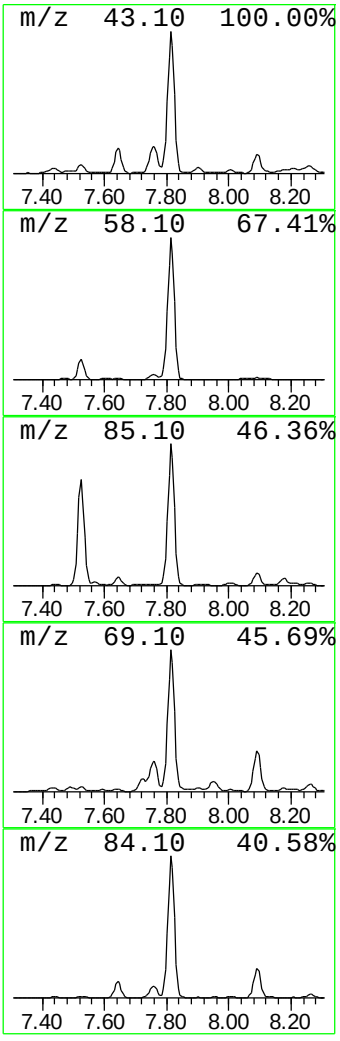
Peak Number 7 2-Heptanone, 4,6-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.81 | 48.51 ng/ul | 5306700 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 4,6-dimethyl- | 142 | C9H18O | 019549-80-5 | 90 |
| 2 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 43 |
| 3 | Nonane, 5-methyl- | 142 | C10H22 | 015869-85-9 | 37 |
| 4 | 2-Hexanone, 4-methyl- | 114 | C7H14O | 000105-42-0 | 35 |
| 5 | 2-Nonanone, 9-[(tetrahydro-2H-py... | 242 | C14H26O3 | 054699-41-1 | 32 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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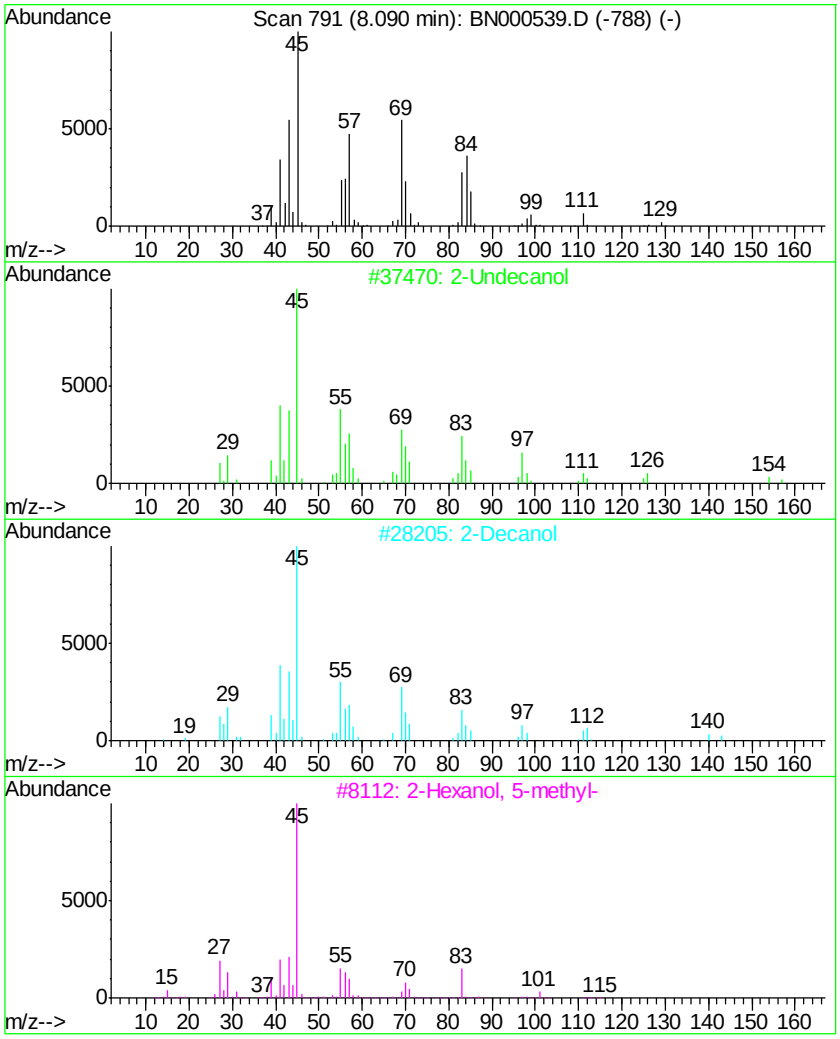
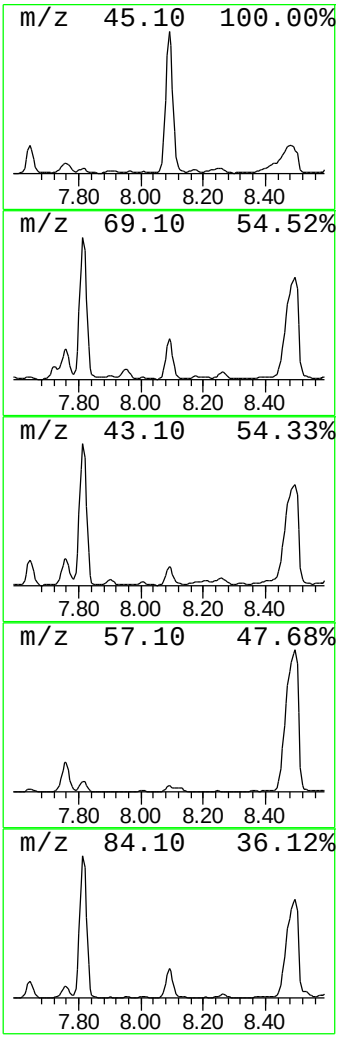
Peak Number 9 2-Undecanol Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.09 | 14.19 ng/ul | 1551840 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Undecanol | 172 | C11H24O | 001653-30-1 | 64 |
| 2 | 2-Decanol | 158 | C10H22O | 001120-06-5 | 64 |
| 3 | 2-Hexanol, 5-methyl- | 116 | C7H16O | 000627-59-8 | 53 |
| 4 | (+-)-5-Methyl-2-hexanol | 116 | C7H16O | 111768-09-3 | 45 |
| 5 | 2-Hexanol, 5-methyl- | 116 | C7H16O | 000627-59-8 | 40 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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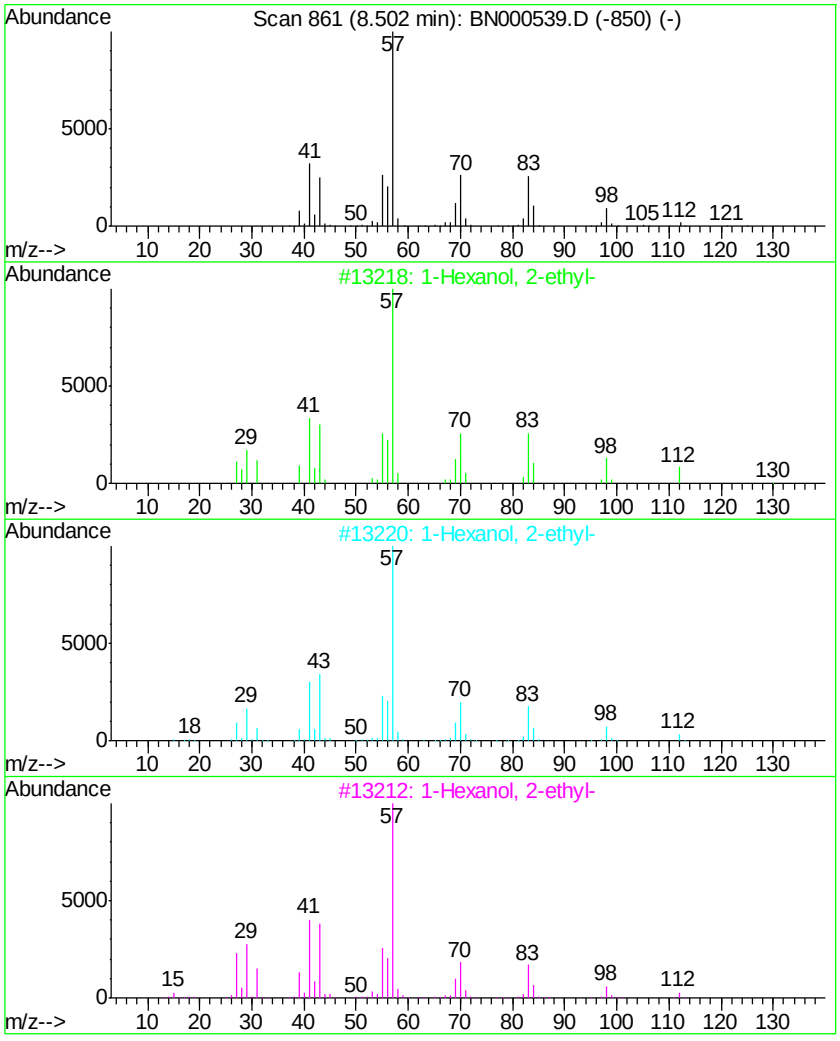
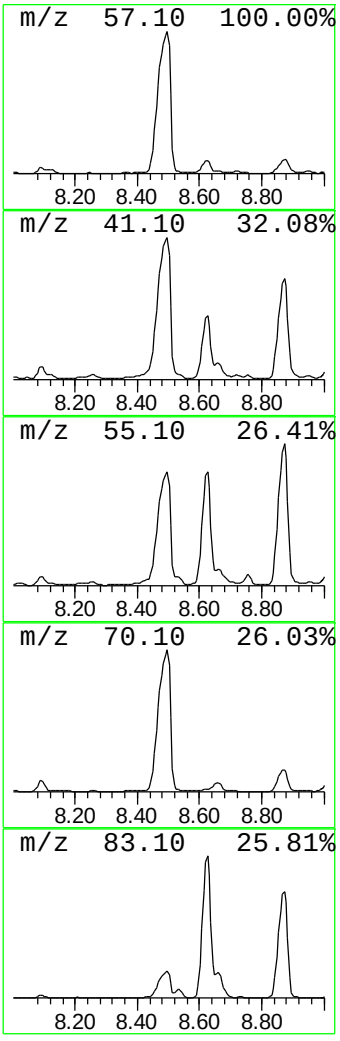
Peak Number 10 1-Hexanol, 2-ethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.50 | 175.02 ng/ul | 19143600 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 83 |
| 2 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 64 |
| 3 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 64 |
| 4 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 64 |
| 5 | Chloroacetic acid, 2-ethylhexyl ... | 206 | C10H19ClO2 | 005345-58-4 | 59 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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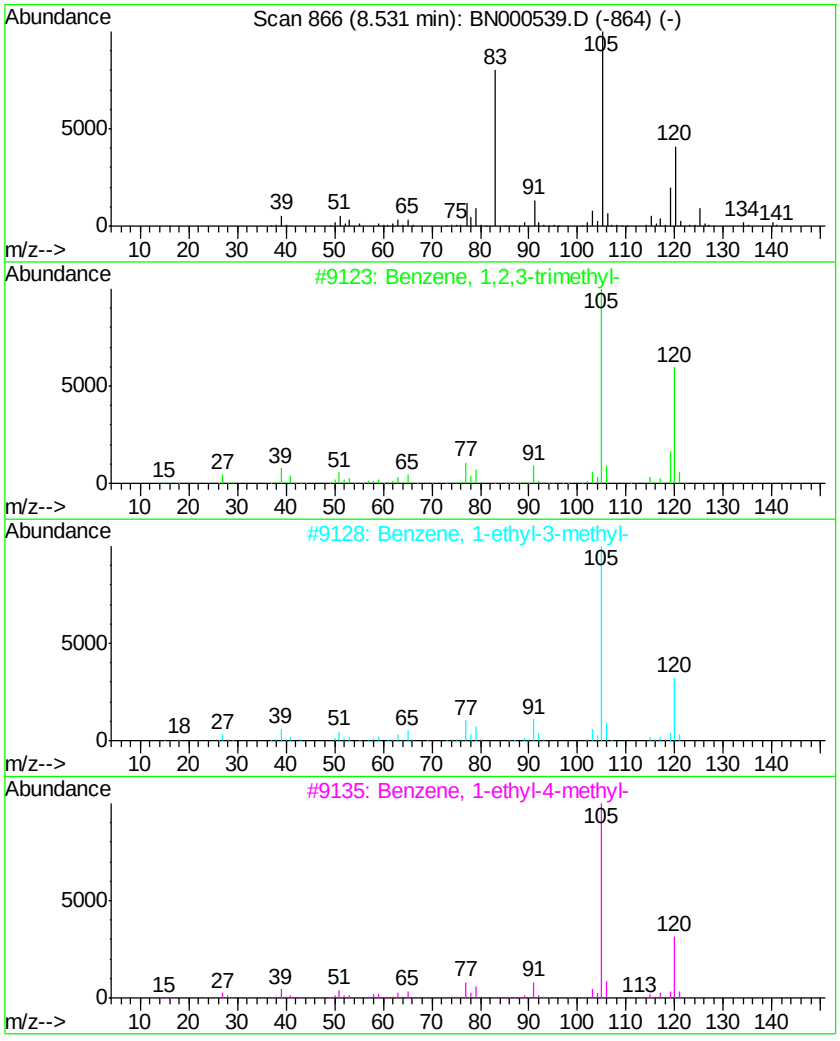
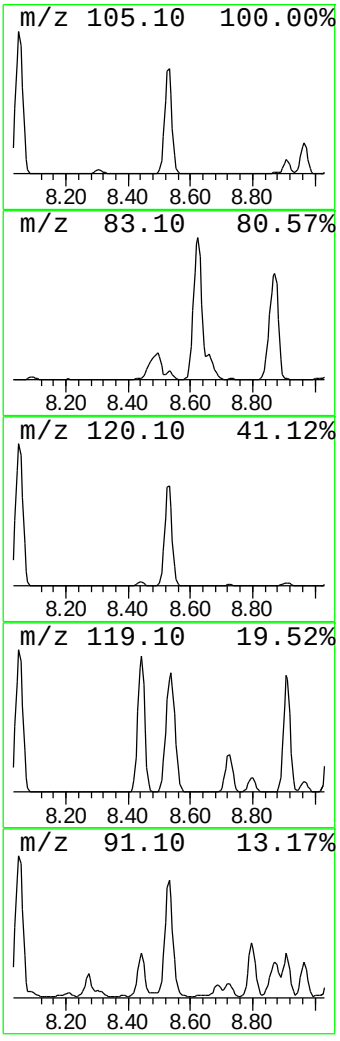
Peak Number 11 Benzene, 1,2,3-trimethyl- Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.53 | 12.27 ng/ul | 1342160 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 50 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 46 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 46 |
| 4 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 46 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 46 |



# Library Search Compound Report

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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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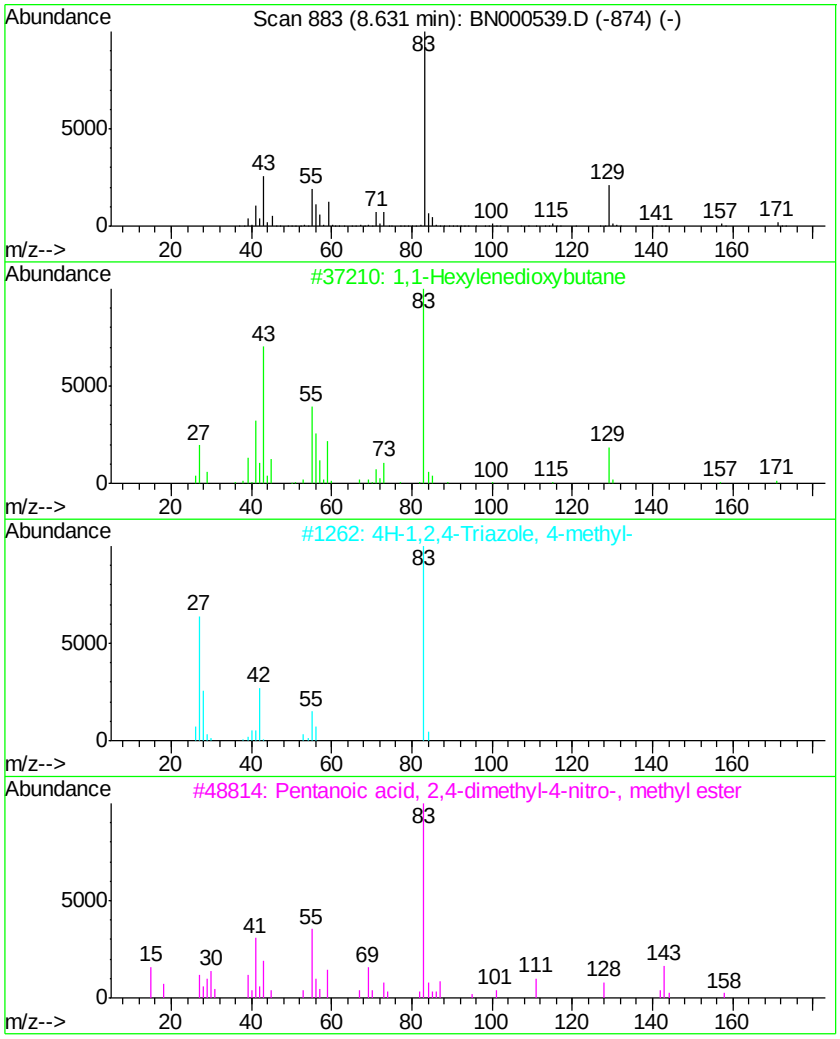
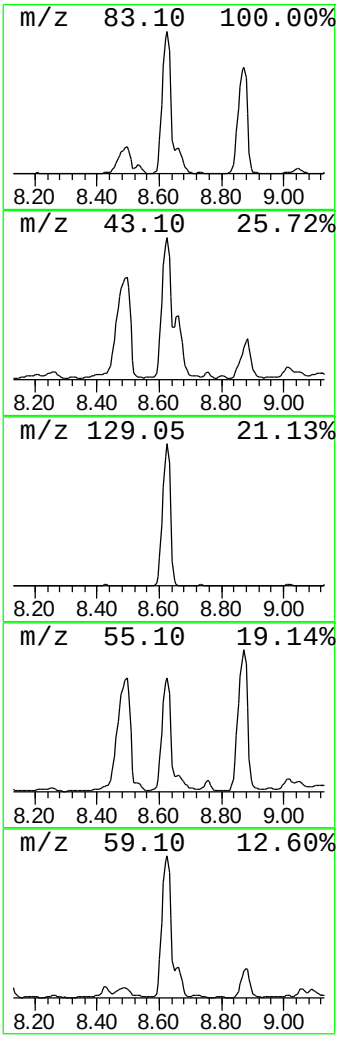
Peak Number 12 unknown-02 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.63 | 129.82 ng/ul | 14200000 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1-Hexylenedioxybutane | 172 | C10H20O2 | 1000249-77-4 | 43 |
| 2 | 4H-1,2,4-Triazole, 4-methyl- | 83 | C3H5N3 | 010570-40-8 | 40 |
| 3 | Pentanoic acid, 2,4-dimethyl-4-n... | 189 | C8H15NO4 | 005762-40-3 | 38 |
| 4 | .alpha.-Amino-2,5-dihydro-5-meth... | 157 | C7H11NO3 | 018455-25-9 | 33 |
| 5 | 1-Undecanamine | 171 | C11H25N | 007307-55-3 | 9 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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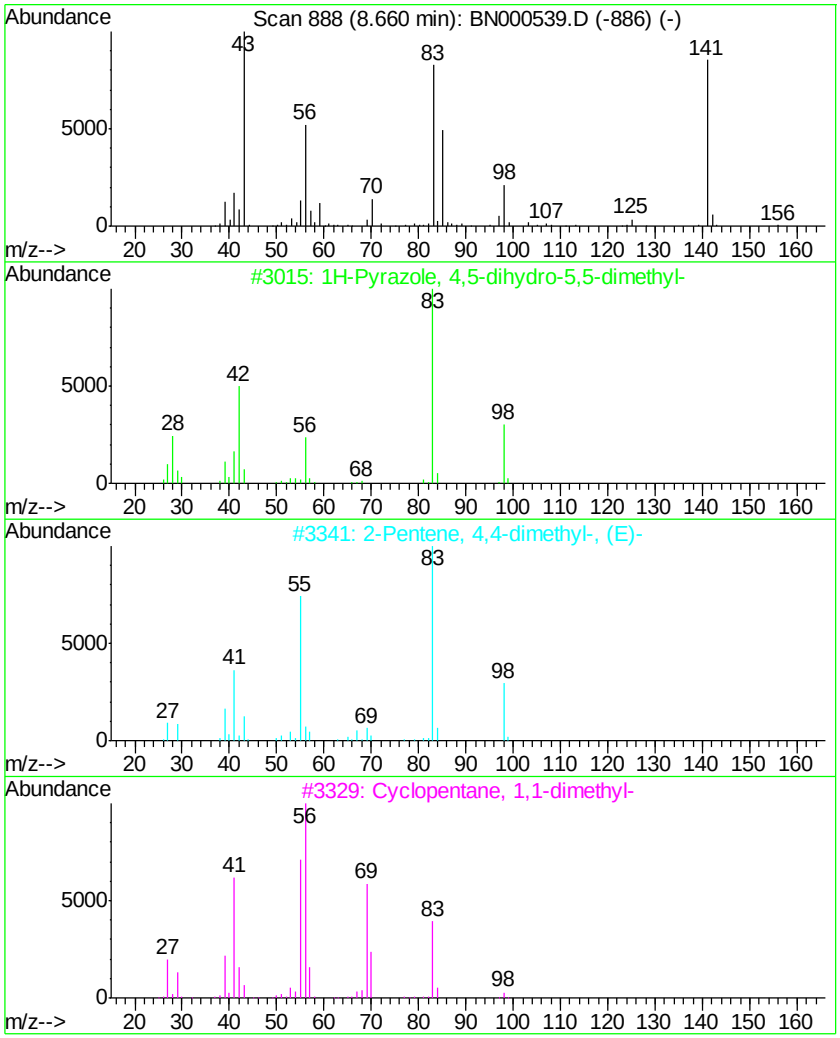
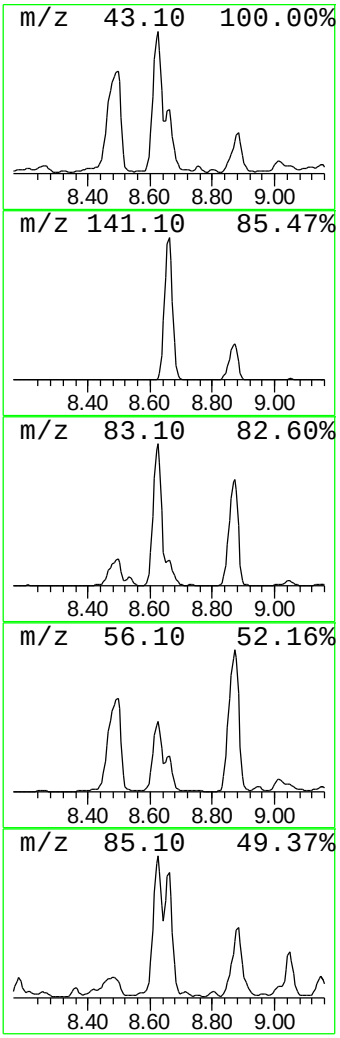
Peak Number 13 unknown-03 Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.66 | 21.50 ng/ul | 2352060 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Pyrazole, 4,5-dihydro-5,5-dim... | 98 | C5H10N2 | 004320-85-8 | 22 |
| 2 | 2-Pentene, 4,4-dimethyl-, (E)- | 98 | C7H14 | 000690-08-4 | 22 |
| 3 | Cyclopentane, 1,1-dimethyl- | 98 | C7H14 | 001638-26-2 | 17 |
| 4 | Cyclopentane, 1,1-dimethyl- | 98 | C7H14 | 001638-26-2 | 16 |
| 5 | 2,4(1H,3H)-Pyrimidinedione, 6-am... | 141 | C5H7N3O2 | 002434-53-9 | 12 |



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Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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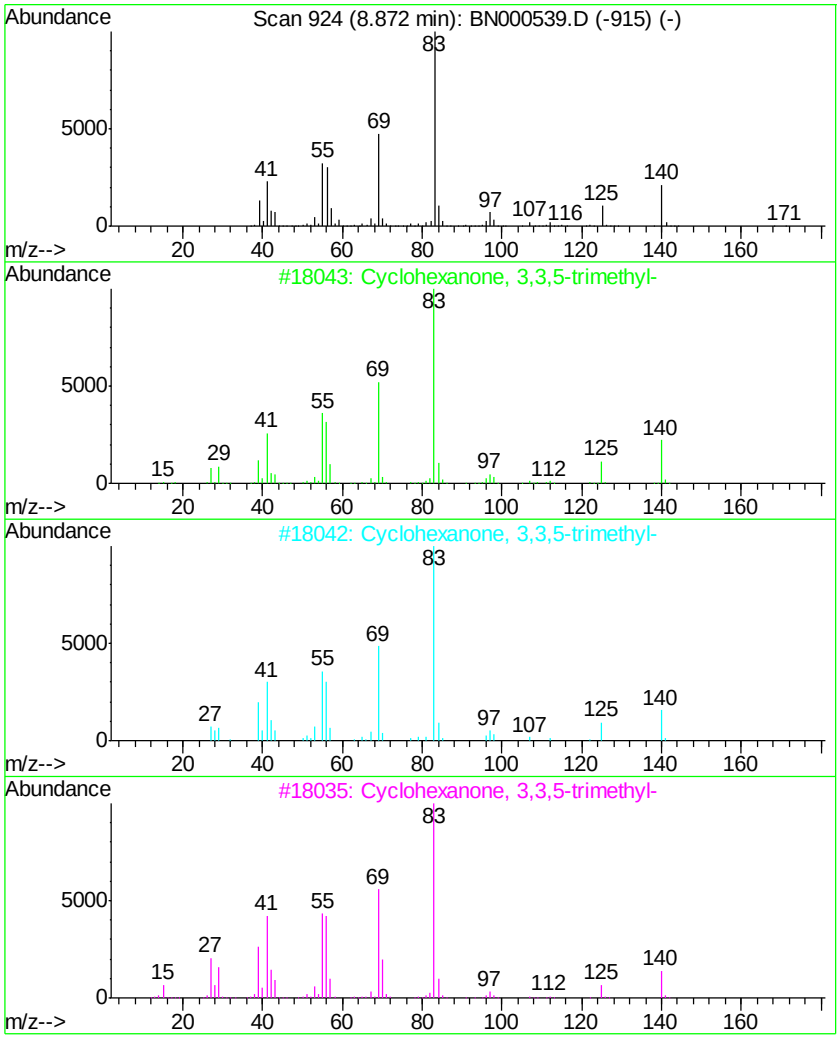
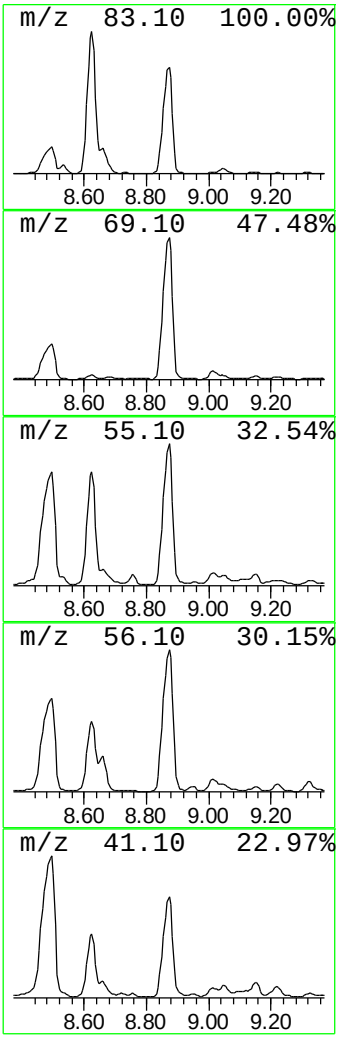
Peak Number 14 Cyclohexanone, 3,3,5-trimet... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.87 | 156.77 ng/ul | 17148400 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 96 |
| 2 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 94 |
| 3 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 91 |
| 4 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 78 |
| 5 | 1,3-Cyclohexanedione, 5,5-dimethyl- | 140 | C8H12O2 | 000126-81-8 | 47 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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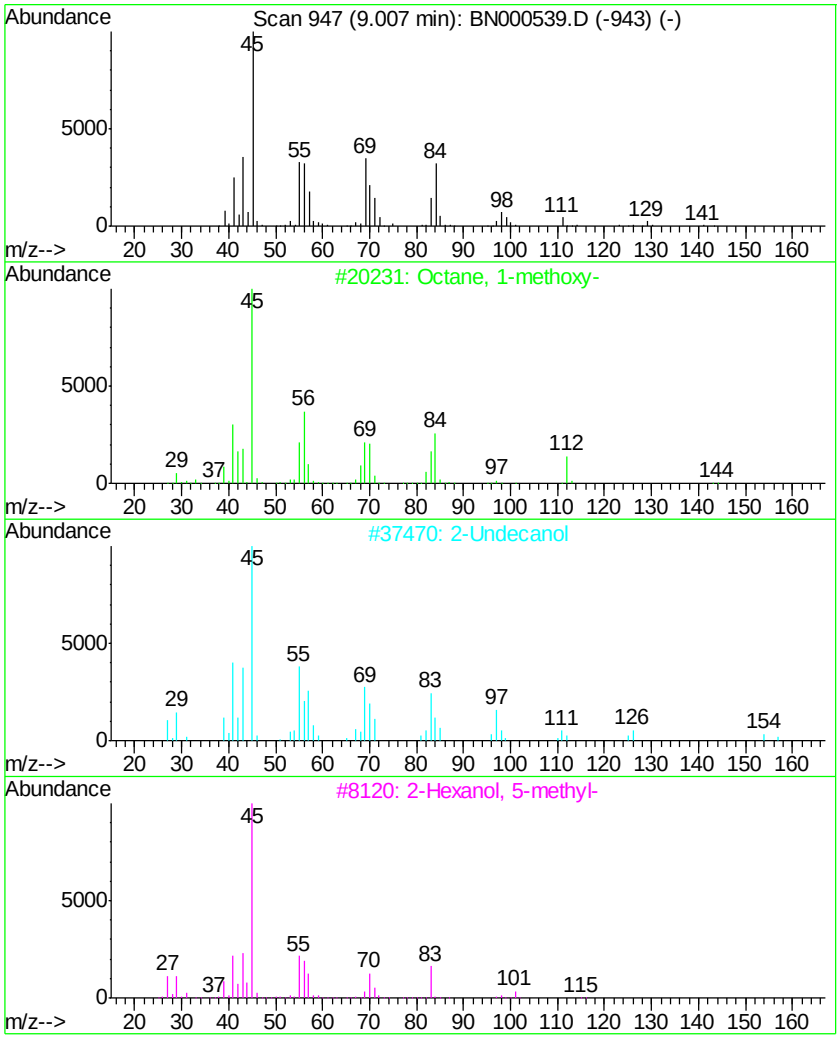
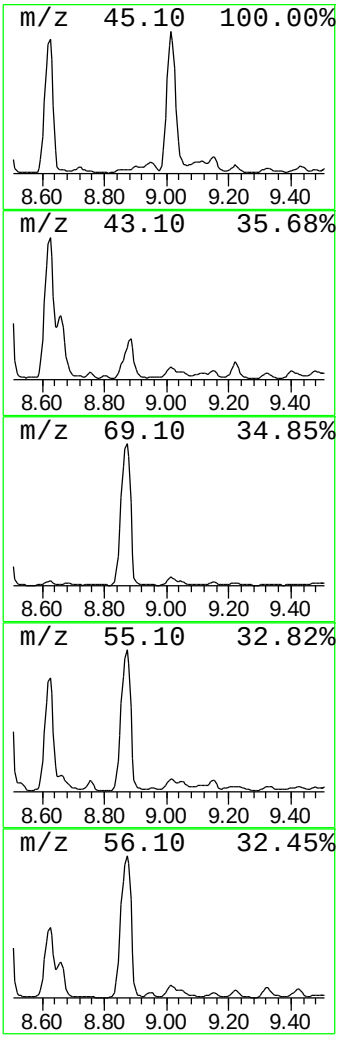
Peak Number 15 Octane, 1-methoxy- Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.01 | 11.21 ng/ul | 1225800 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 1-methoxy- | 144 | C9H20O | 000929-56-6 | 72 |
| 2 | 2-Undecanol | 172 | C11H24O | 001653-30-1 | 64 |
| 3 | 2-Hexanol, 5-methyl- | 116 | C7H16O | 000627-59-8 | 59 |
| 4 | Butane, 1-methoxy-2-methyl- | 102 | C6H14O | 062016-48-2 | 50 |
| 5 | 2-Dodecanol | 186 | C12H26O | 010203-28-8 | 50 |



# Library Search Compound Report

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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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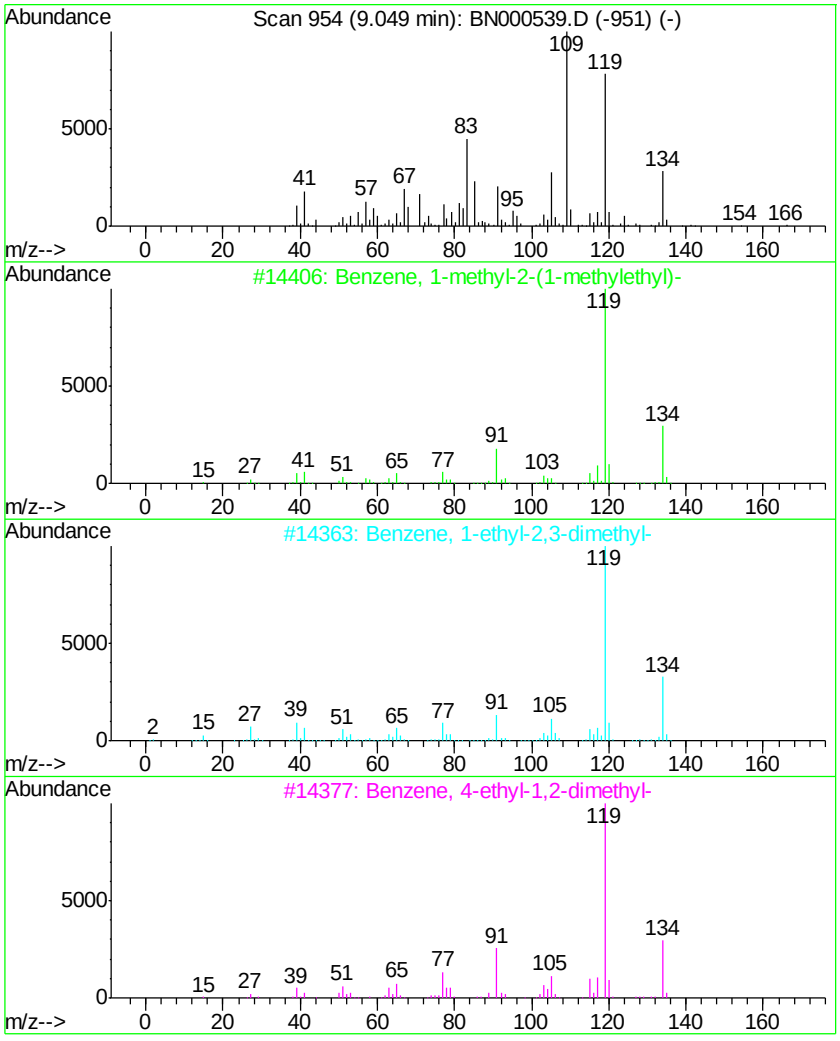
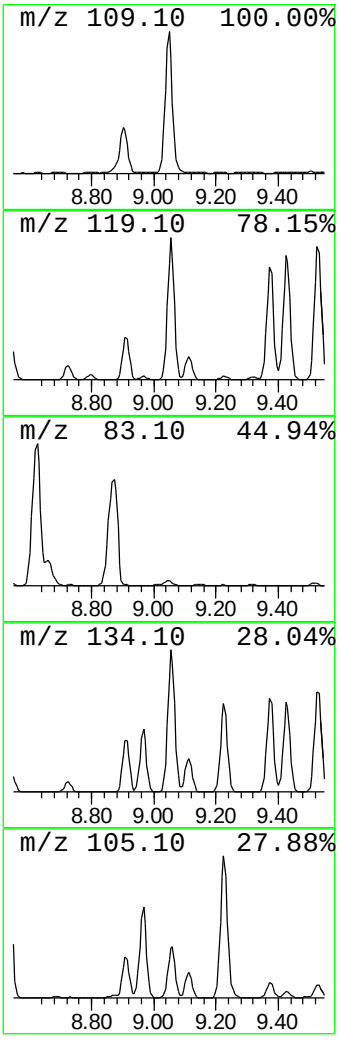
Peak Number 16 Benzene, 1-methyl-2-(1-meth... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.05 | 19.11 ng/ul | 2089930 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 74 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 74 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 70 |
| 4 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 70 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 70 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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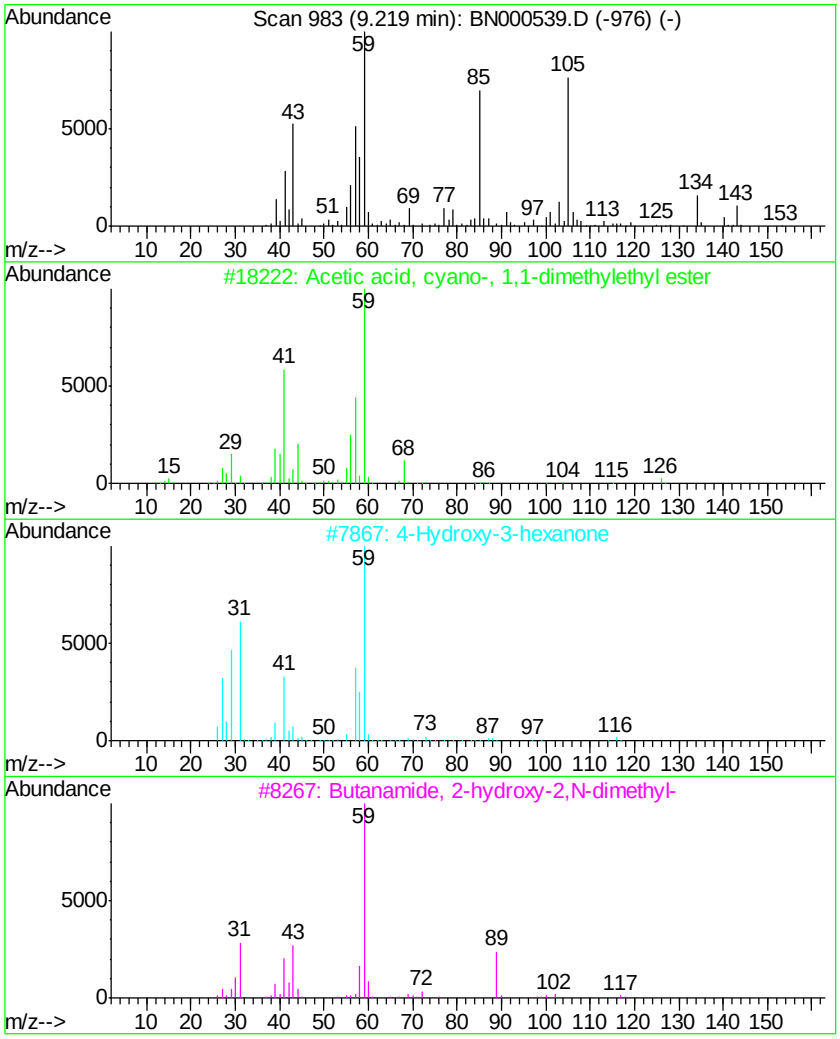
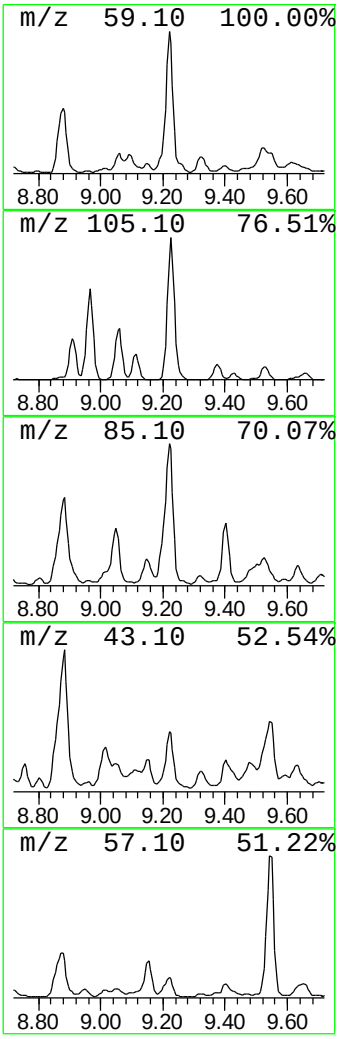
Peak Number 17 unknown-04 Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.22 | 20.44 ng/ul | 2235410 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 35 |
| 2 | 4-Hydroxy-3-hexanone | 116 | C6H12O2 | 004984-85-4 | 35 |
| 3 | Butanamide, 2-hydroxy-2,N-dimethyl- | 117 | C5H11NO2 | 039961-72-3 | 27 |
| 4 | Butanamide, 3,3-dimethyl- | 115 | C6H13NO | 000926-04-5 | 27 |
| 5 | Octanamide | 143 | C8H17NO | 000629-01-6 | 27 |



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Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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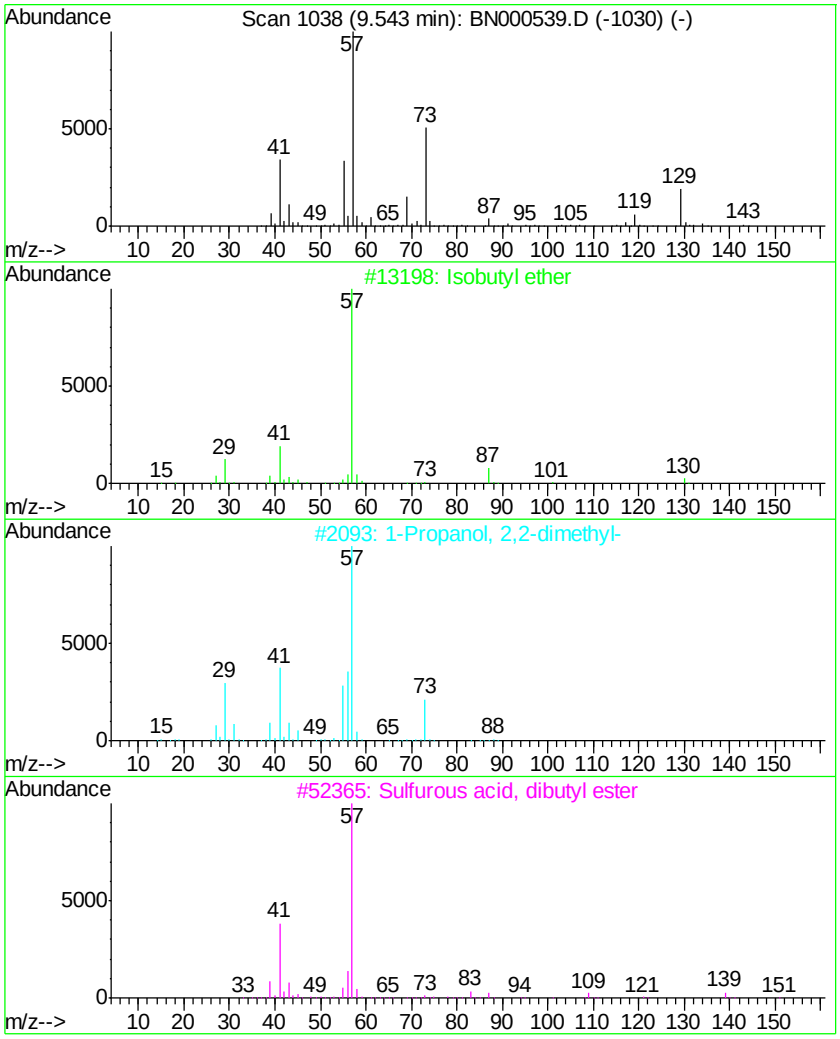
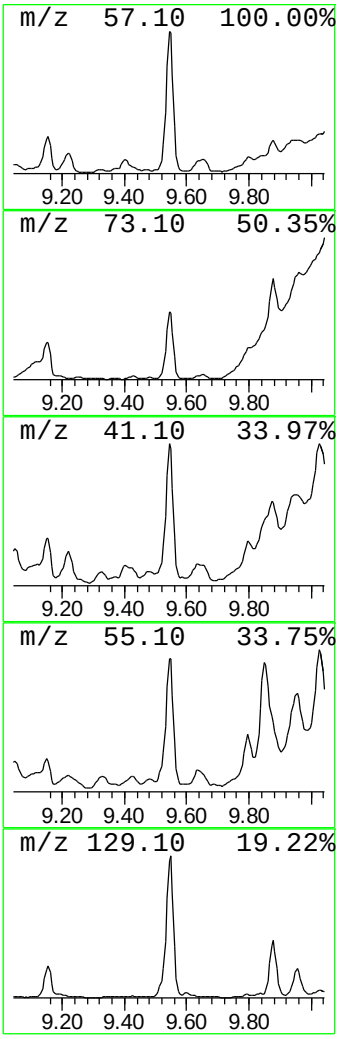
Peak Number 18 unknown-05 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.54 | 36.02 ng/ul | 3939720 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutyl ether | 130 | C8H18O | 000628-55-7 | 14 |
| 2 | 1-Propanol, 2,2-dimethyl- | 88 | C5H12O | 000075-84-3 | 10 |
| 3 | Sulfurous acid, dibutyl ester | 194 | C8H18O3S | 000626-85-7 | 10 |
| 4 | n-Butyl ether | 130 | C8H18O | 000142-96-1 | 9 |
| 5 | Ethanedioic acid, dibutyl ester | 202 | C10H18O4 | 002050-60-4 | 9 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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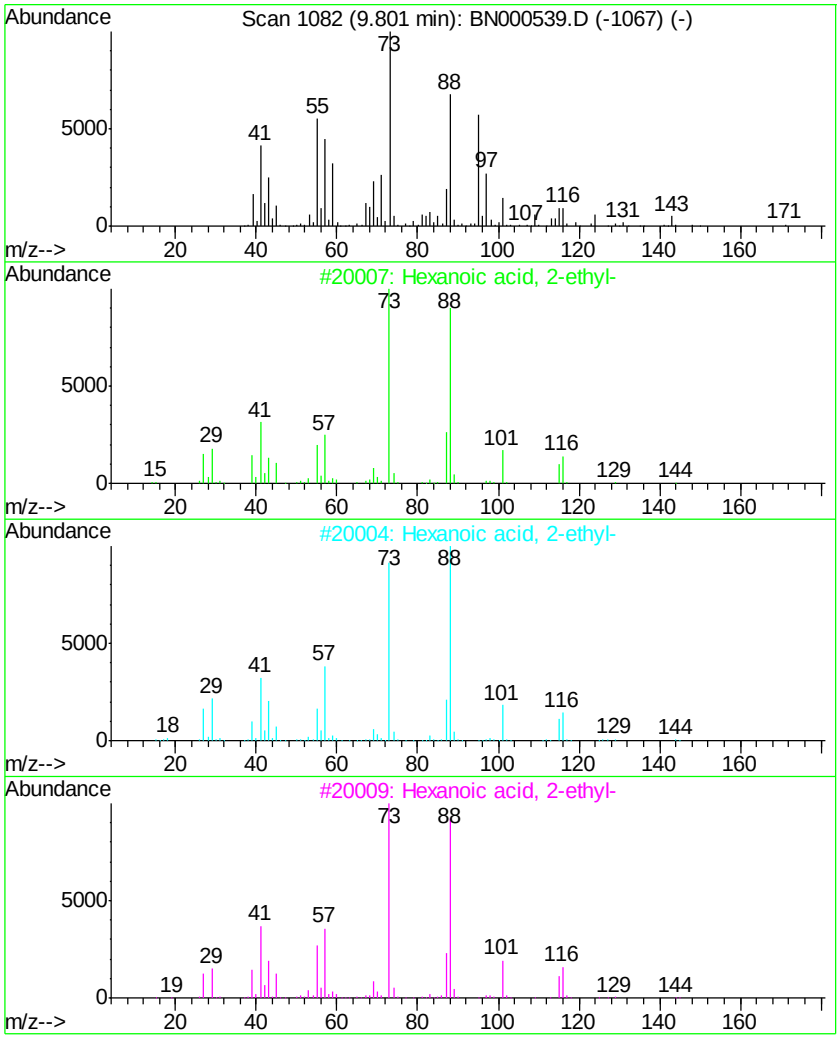
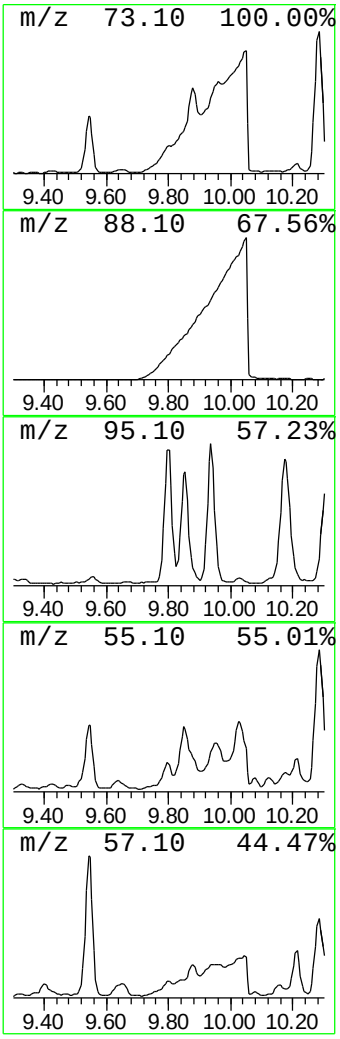
Peak Number 19 unknown-06 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.80 | 28.51 ng/ul | 3119010 | 1,4-Dichlorobenzene-d4 | 8.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 35 |
| 2 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 27 |
| 3 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 27 |
| 4 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 27 |
| 5 | Pentanoic acid, 2-methyl-, methy... | 130 | C7H14O2 | 002177-77-7 | 22 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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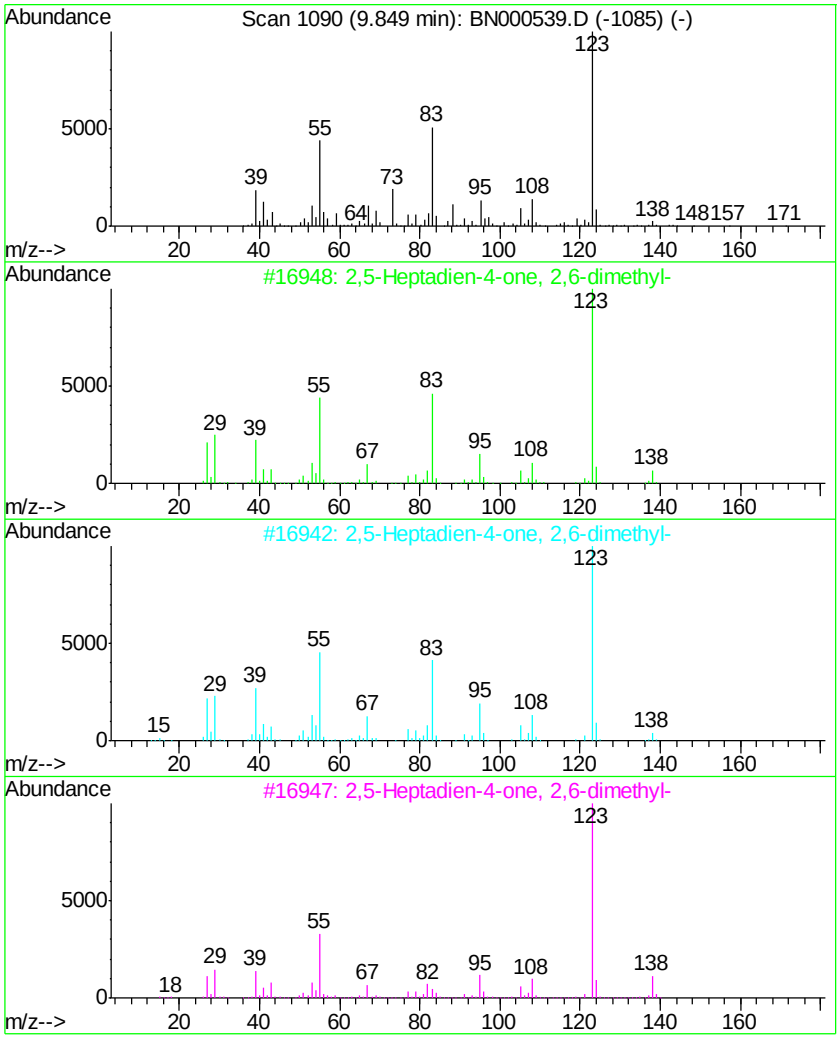
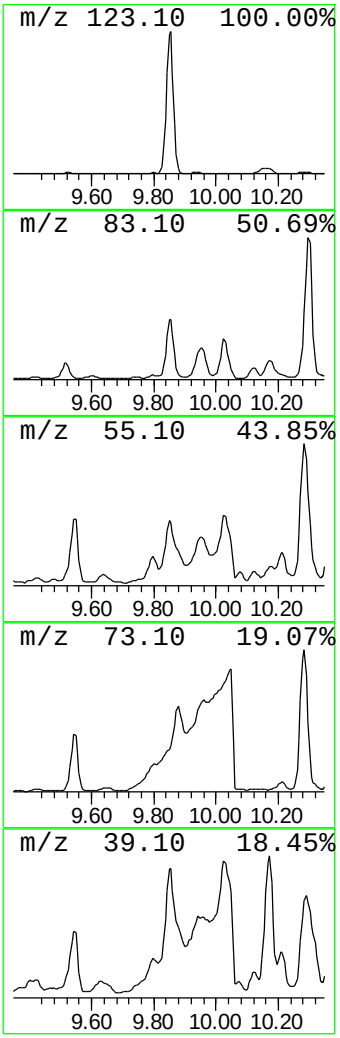
Peak Number 20 2,5-Heptadien-4-one, 2,6-di... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 64.98 ng/ul | 8589920 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 64 |
| 2 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 50 |
| 3 | 2,5-Heptadien-4-one, 2,6-dimethyl- | 138 | C9H14O | 000504-20-1 | 47 |
| 4 | 4-Pyrimidinamine, 2,6-dimethyl- | 123 | C6H9N3 | 000461-98-3 | 46 |
| 5 | 1,3-Benzenediol, 4-ethyl- | 138 | C8H10O2 | 002896-60-8 | 43 |



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Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

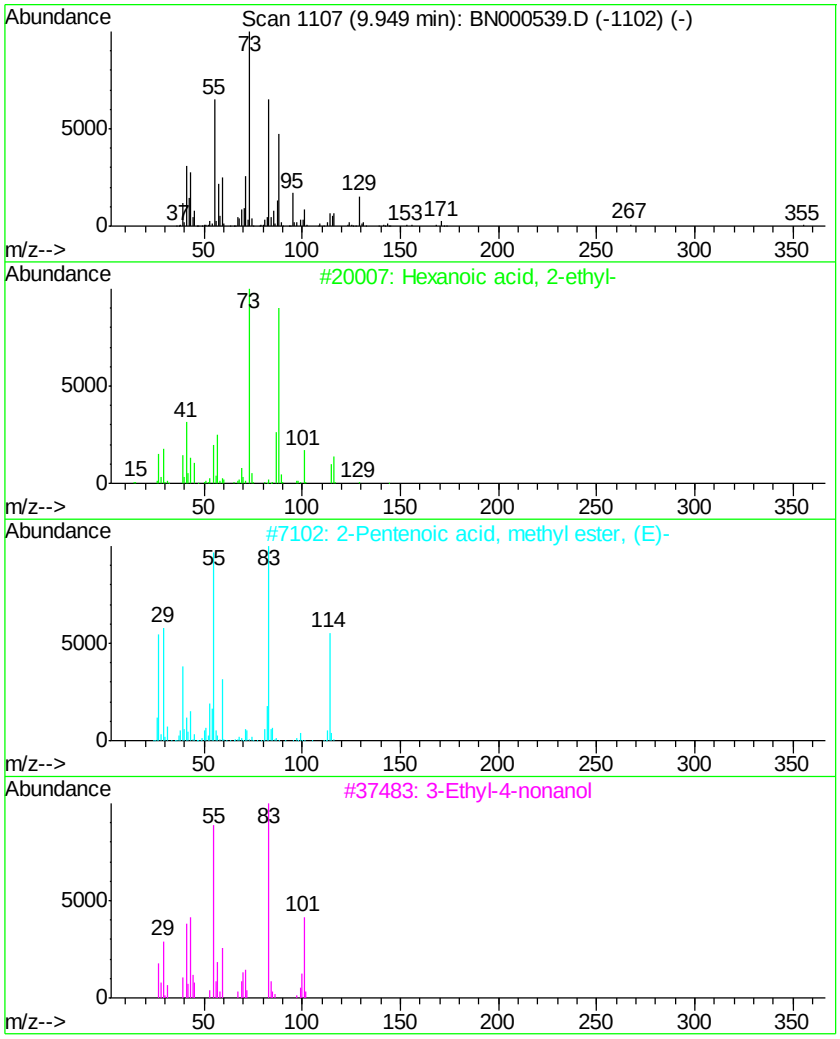
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

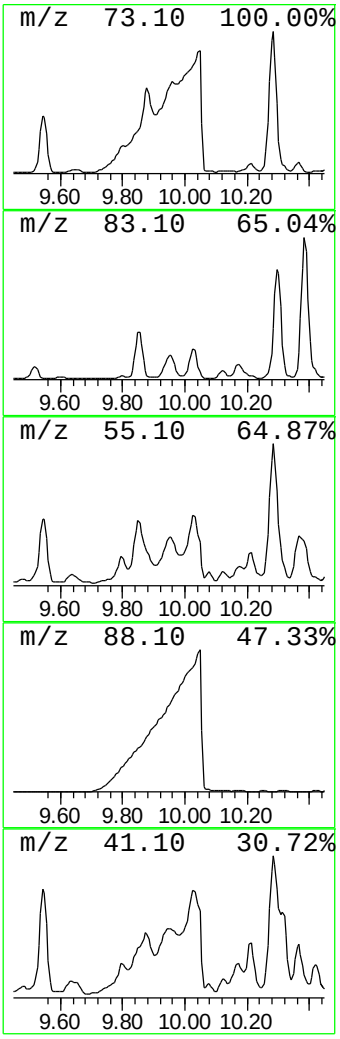
**********

Peak Number 21 unknown-07 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.95 | 53.93 ng/ul | 7128420 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 25 |
| 2 | 2-Pentenoic acid, methyl ester, ... | 114 | C6H10O2 | 015790-88-2 | 22 |
| 3 | 3-Ethyl-4-nonanol | 172 | C11H24O | 019780-72-4 | 14 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 10 |
| 5 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 10 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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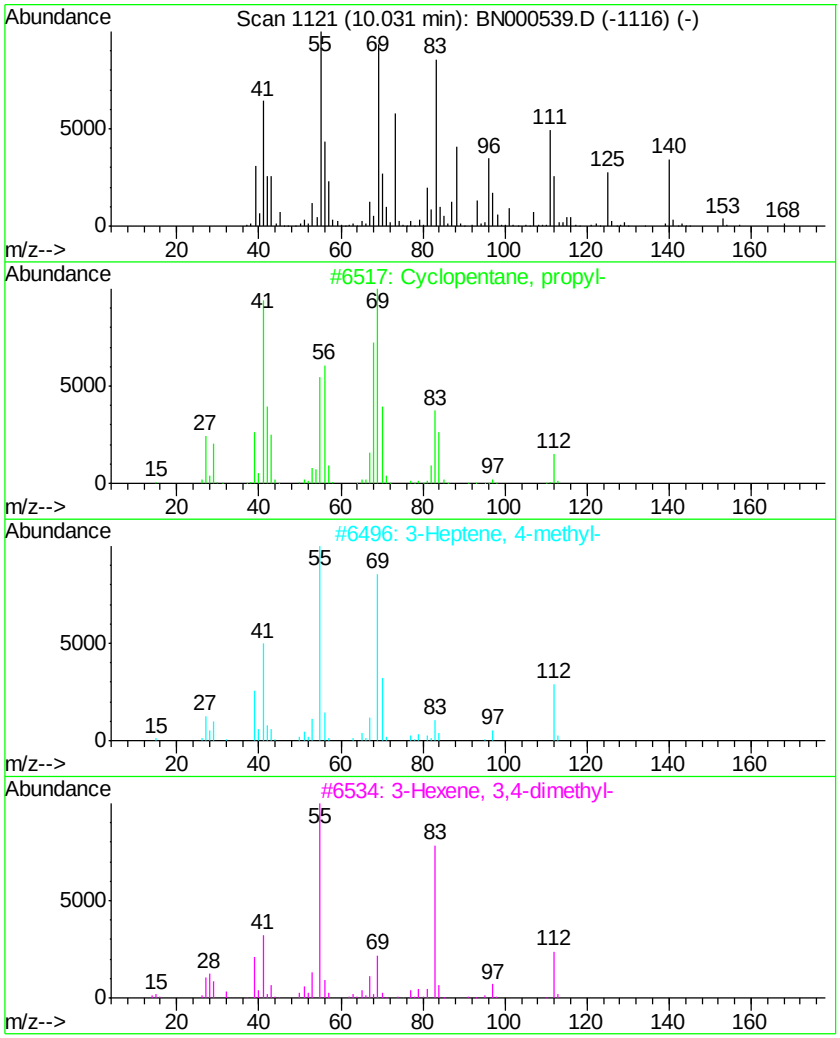
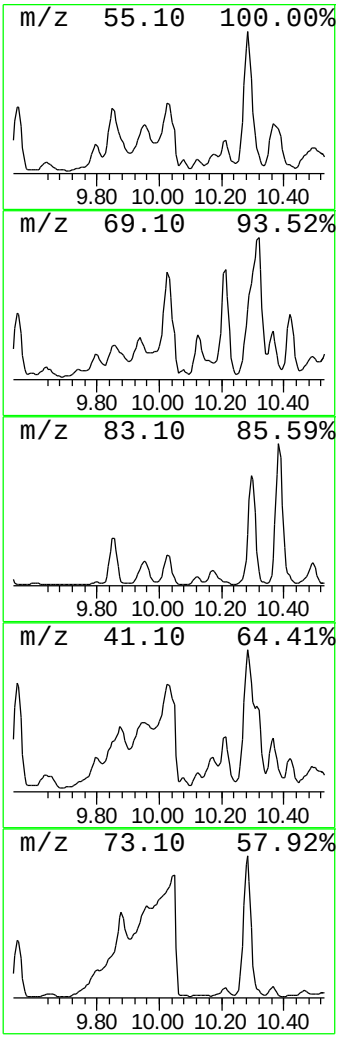
Peak Number 22 unknown-08 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.03 | 65.71 ng/ul | 8685600 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, propyl- | 112 | C8H16 | 002040-96-2 | 41 |
| 2 | 3-Heptene, 4-methyl- | 112 | C8H16 | 004485-16-9 | 38 |
| 3 | 3-Hexene, 3,4-dimethyl- | 112 | C8H16 | 030951-95-2 | 35 |
| 4 | 3-Ethyl-4-methyl-2-pentene | 112 | C8H16 | 019780-68-8 | 35 |
| 5 | 3-Heptene, 4-methyl- | 112 | C8H16 | 004485-16-9 | 30 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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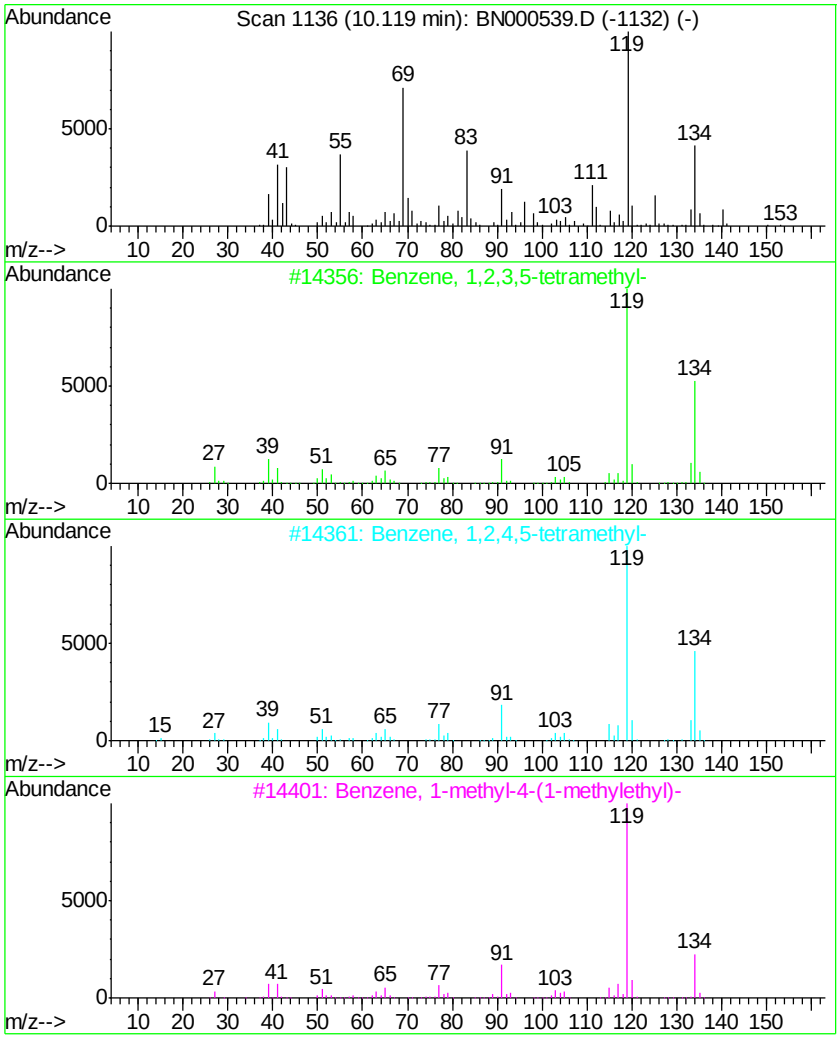
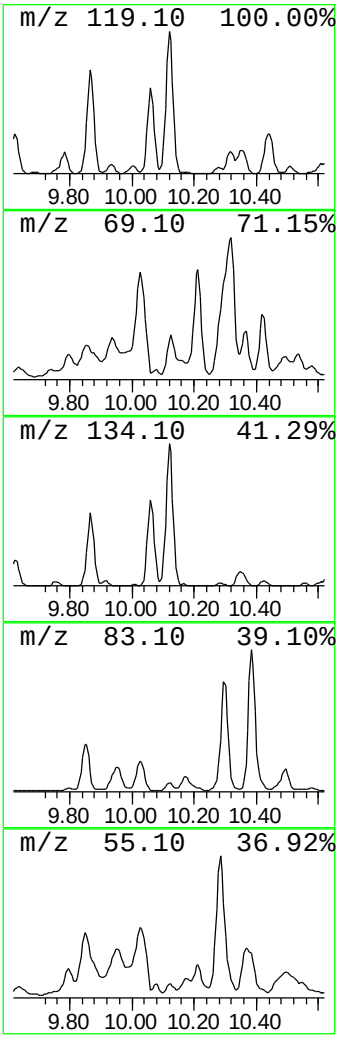
Peak Number 23 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.12 | 6.54 ng/ul | 864746 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 90 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 90 |
| 3 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 89 |
| 4 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 89 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 89 |



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Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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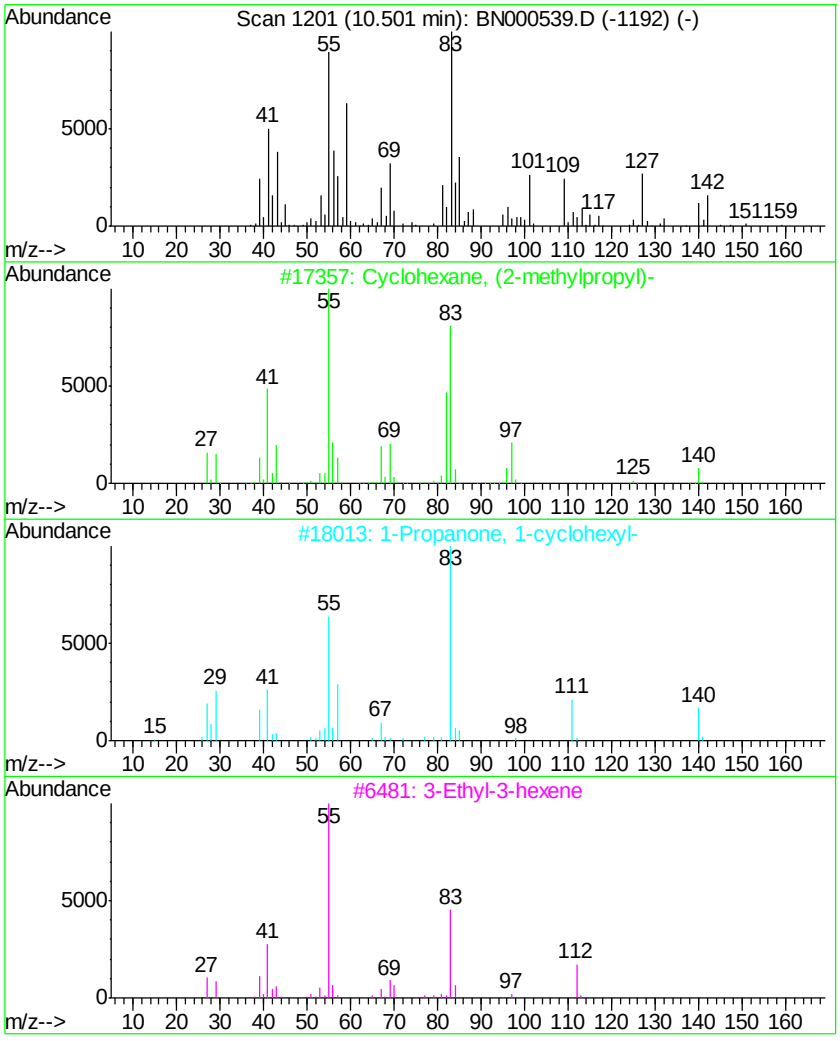
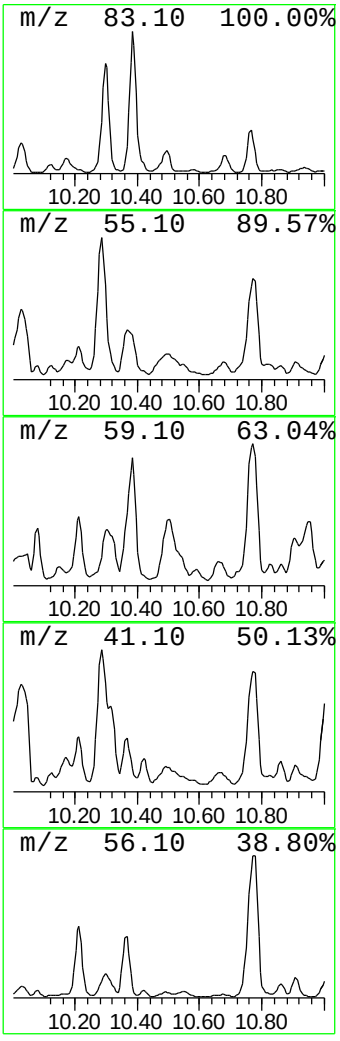
Peak Number 24 unknown-09 Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.50 | 12.07 ng/ul | 1594980 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 35 |
| 2 | 1-Propanone, 1-cyclohexyl- | 140 | C9H16O | 001123-86-0 | 35 |
| 3 | 3-Ethyl-3-hexene | 112 | C8H16 | 016789-51-8 | 35 |
| 4 | Cyclohexanone, 3,3,5-trimethyl- | 140 | C9H16O | 000873-94-9 | 35 |
| 5 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 35 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

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

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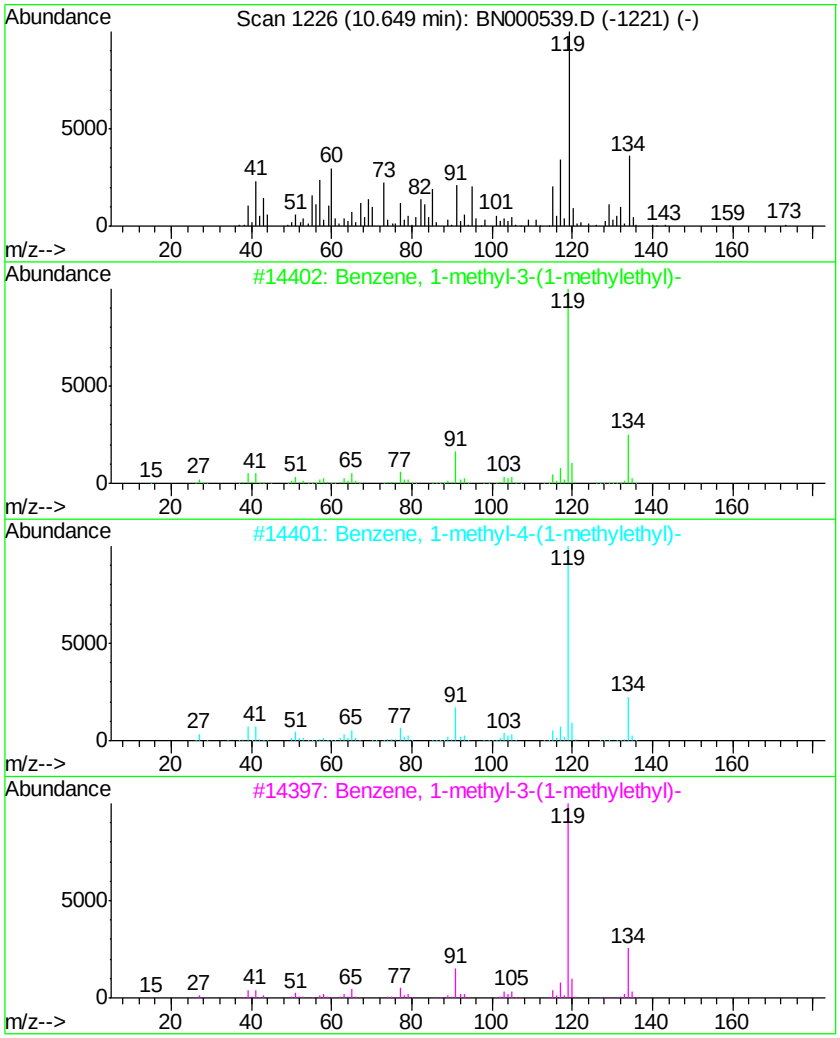
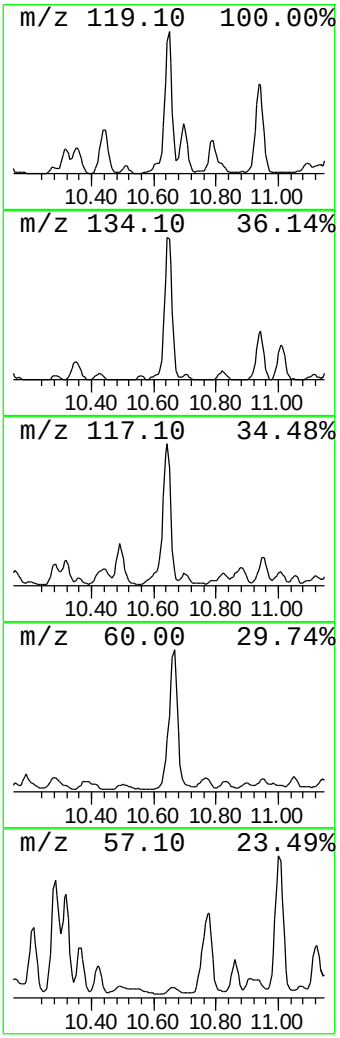
Peak Number 25 unknown-10 Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.65 | 12.18 ng/ul | 1609980 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 46 |
| 2 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 46 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 46 |
| 4 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 46 |
| 5 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 46 |



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Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

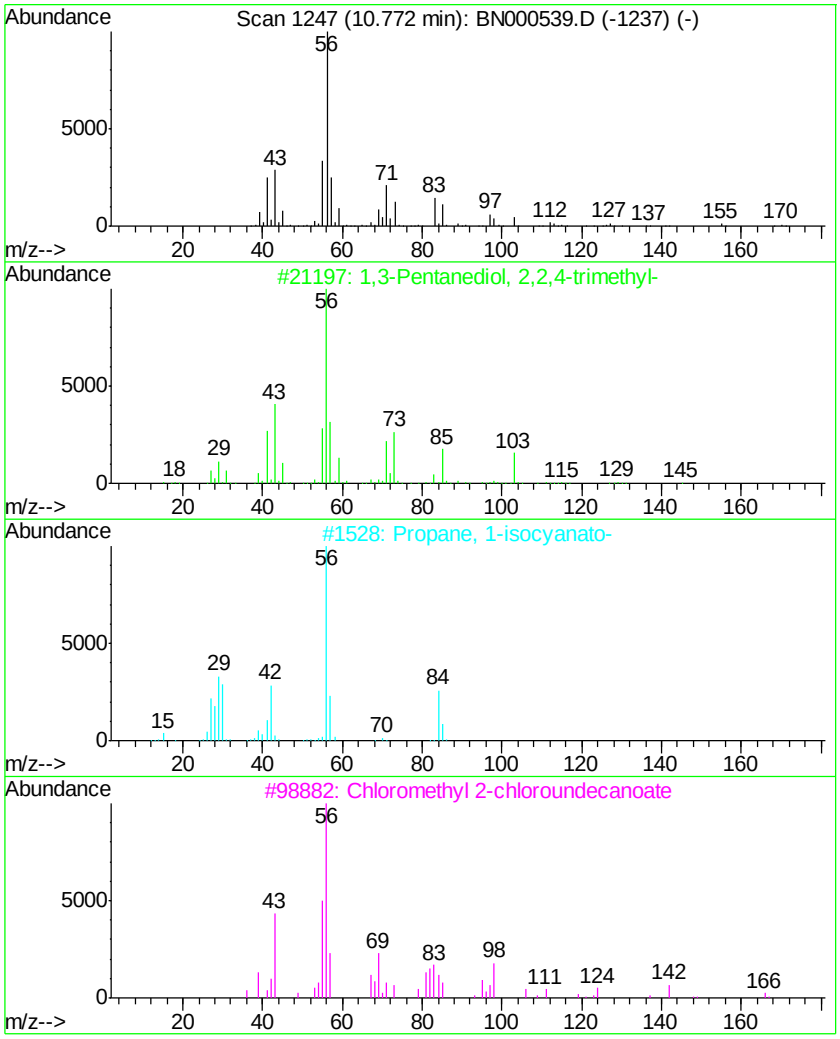
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

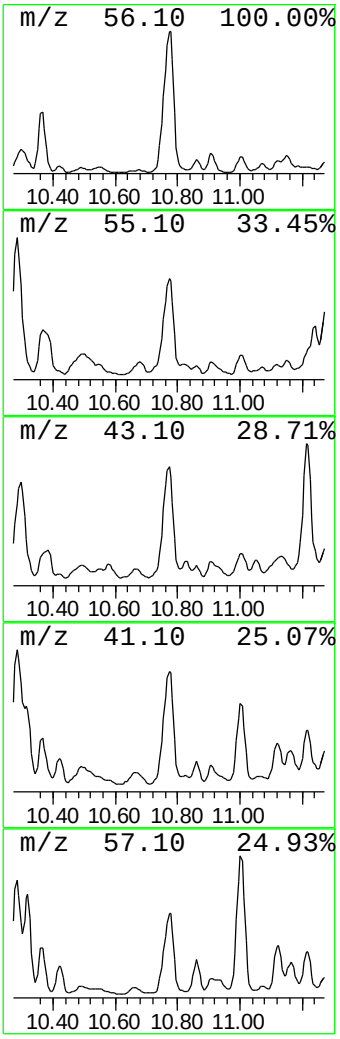
**********

Peak Number 26 unknown-11 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.77 | 56.88 ng/ul | 7518890 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Pentanediol, 2,2,4-trimethyl- | 146 | C8H18O2 | 000144-19-4 | 42 |
| 2 | Propane, 1-isocyanato- | 85 | C4H7NO | 000110-78-1 | 37 |
| 3 | Chloromethyl 2-chloroundecanoate | 268 | C12H22Cl2O2 | 080418-88-8 | 33 |
| 4 | Cyclobutane, 1-hexyl-2,3-dimethyl- | 168 | C12H24 | 055170-84-8 | 33 |
| 5 | Cyclobutane, 1,2,3,4-tetramethyl- | 112 | C8H16 | 069531-57-3 | 32 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

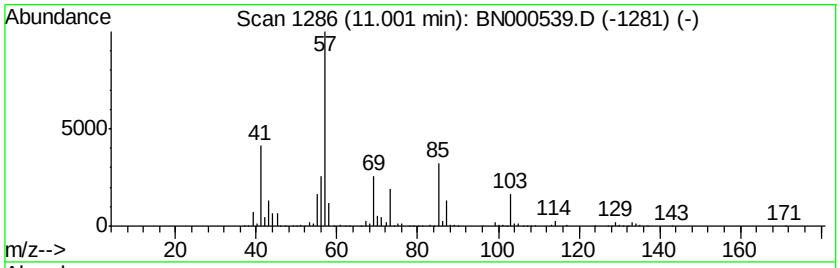
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

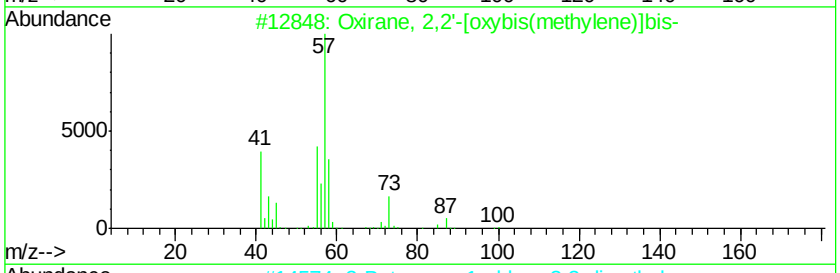
**********

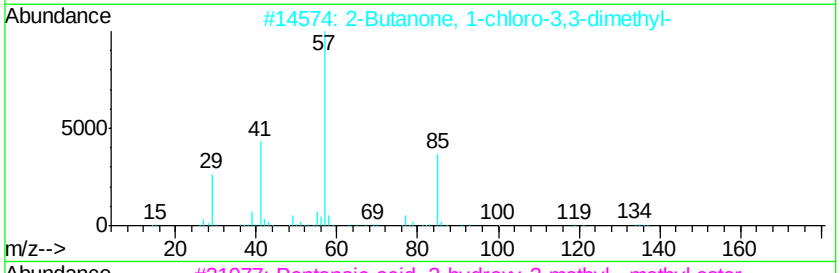
Peak Number 27 unknown-12 Concentration Rank 29

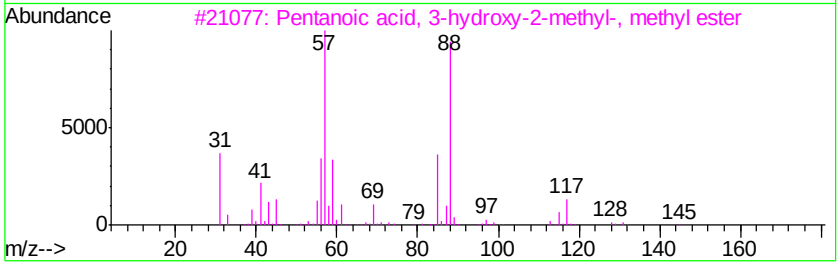
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.00 | 18.81 ng/ul | 2486220 | Naphthalene-d8 | 11.26 |

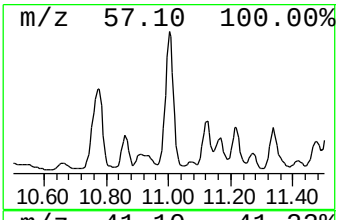
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, 2,2'-[oxybis(methylene)... | 130 | C6H10O3 | 002238-07-5 | 37 |
| 2 | 2-Butanone, 1-chloro-3,3-dimethyl- | 134 | C6H11ClO | 013547-70-1 | 35 |
| 3 | Pentanoic acid, 3-hydroxy-2-meth... | 146 | C7H14O3 | 060665-94-3 | 33 |
| 4 | Pentanoic acid, butyl ester | 158 | C9H18O2 | 000591-68-4 | 32 |
| 5 | Butanoic acid, 3-methyl-, butyl ... | 158 | C9H18O2 | 000109-19-3 | 32 |

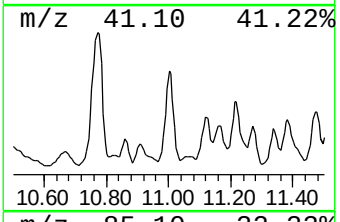


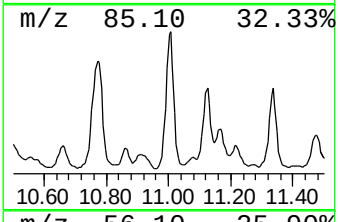



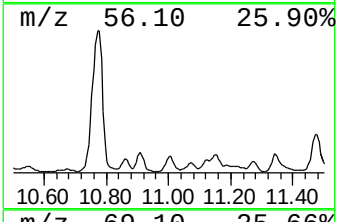



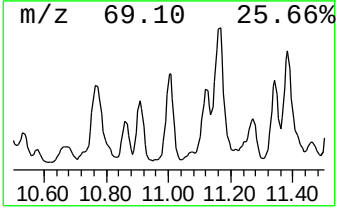



Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

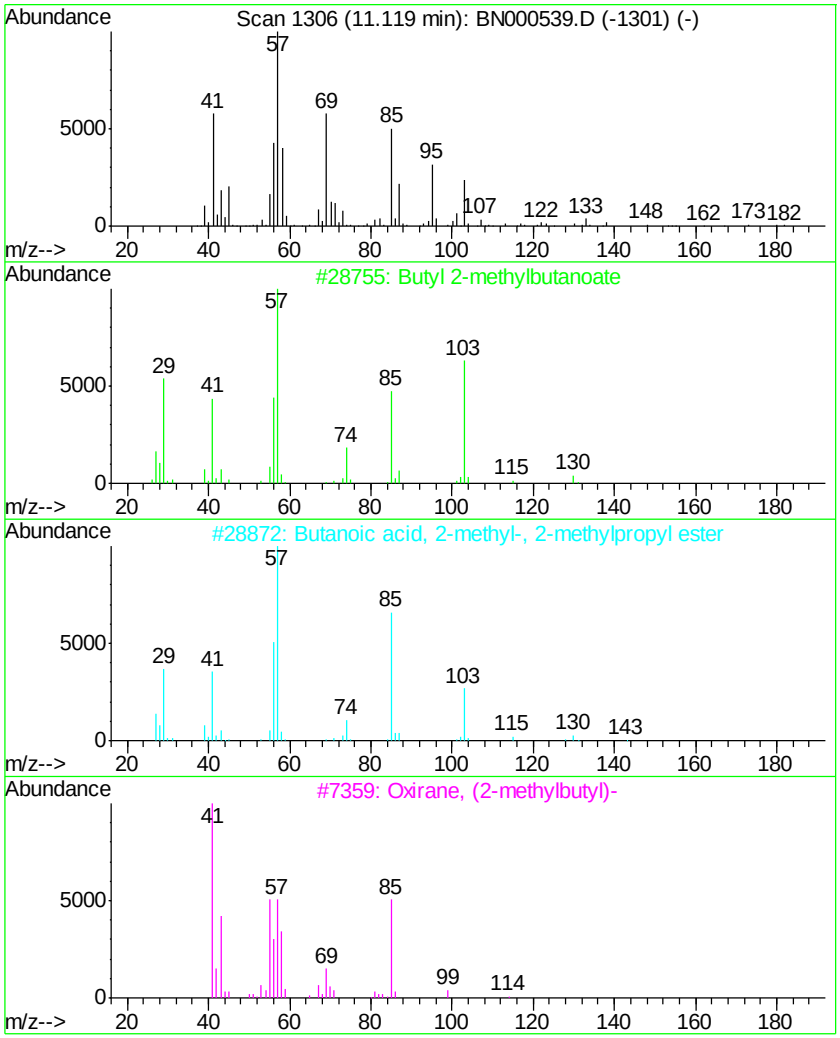
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

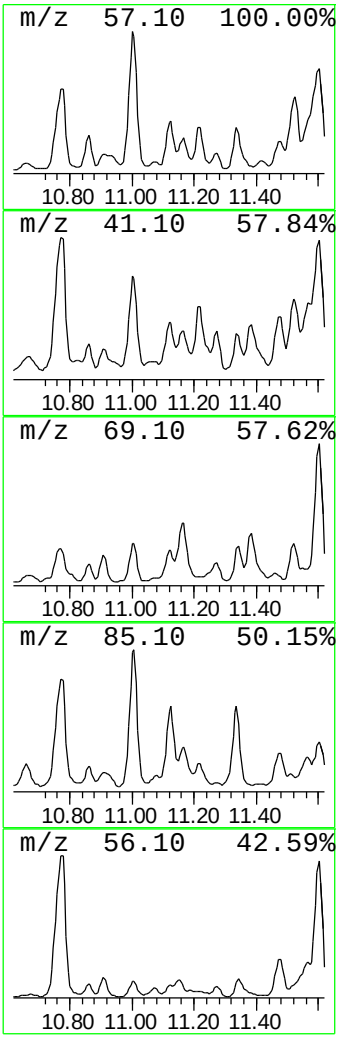
**********

Peak Number 28 unknown-13 Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.12 | 10.34 ng/ul | 1366400 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butyl 2-methylbutanoate | 158 | C9H18O2 | 015706-73-7 | 43 |
| 2 | Butanoic acid, 2-methyl-, 2-meth... | 158 | C9H18O2 | 002445-67-2 | 43 |
| 3 | Oxirane, (2-methylbutyl)- | 114 | C7H14O | 053229-42-8 | 37 |
| 4 | 4-Octanone, 2-methyl- | 142 | C9H18O | 007492-38-8 | 35 |
| 5 | Butanoic acid, 3-methyl-, butyl ... | 158 | C9H18O2 | 000109-19-3 | 35 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

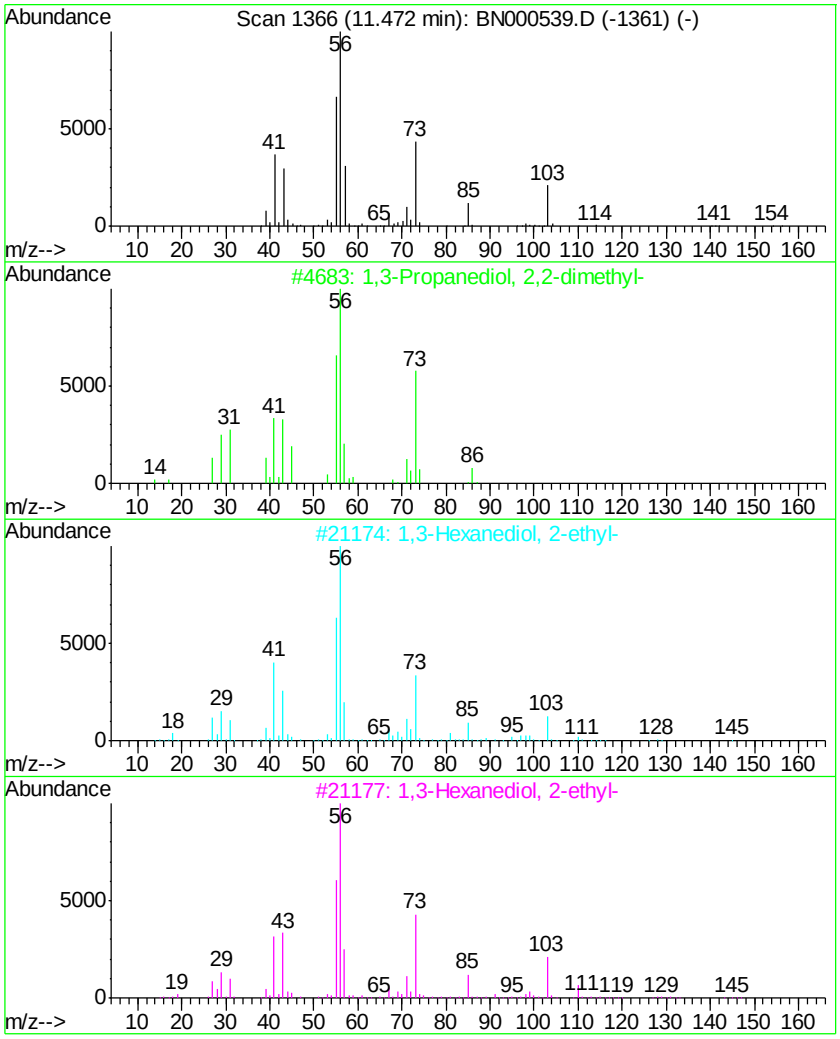
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

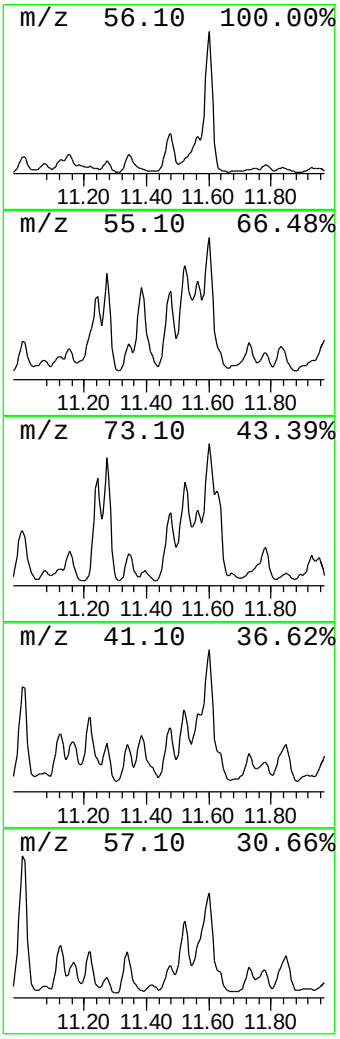
**********

Peak Number 29 1,3-Propanediol, 2,2-dimethyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.47 | 11.43 ng/ul | 1510450 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Propanediol, 2,2-dimethyl- | 104 | C5H12O2 | 000126-30-7 | 59 |
| 2 | 1,3-Hexanediol, 2-ethyl- | 146 | C8H18O2 | 000094-96-2 | 56 |
| 3 | 1,3-Hexanediol, 2-ethyl- | 146 | C8H18O2 | 000094-96-2 | 50 |
| 4 | 1,3-Pentanediol, 2,2,4-trimethyl- | 146 | C8H18O2 | 000144-19-4 | 39 |
| 5 | Propane, 1-isocyanato- | 85 | C4H7NO | 000110-78-1 | 38 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

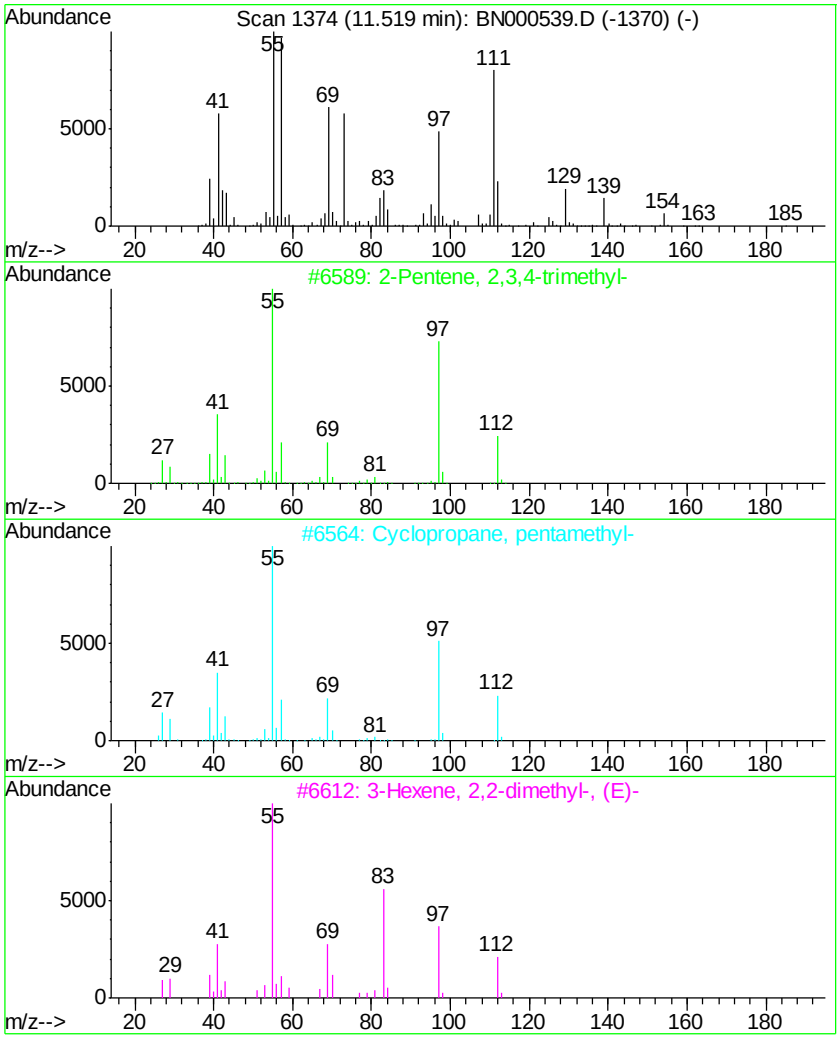
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

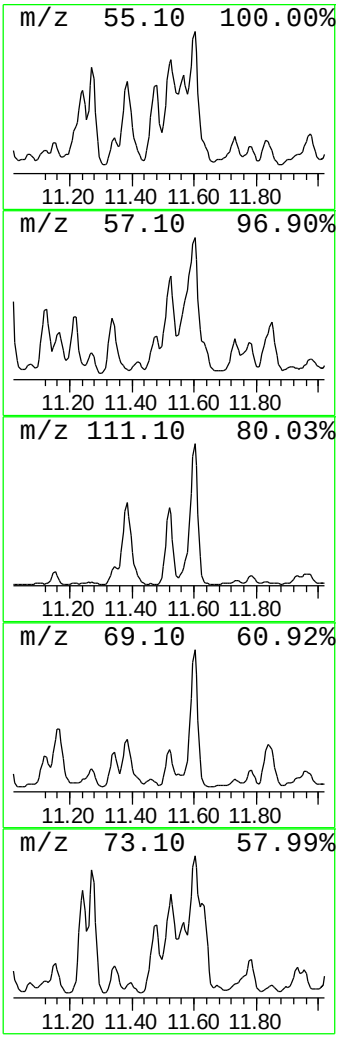
**********

Peak Number 30 unknown-14 Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.52 | 17.26 ng/ul | 2280950 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene, 2,3,4-trimethyl- | 112 | C8H16 | 000565-77-5 | 38 |
| 2 | Cyclopropane, pentamethyl- | 112 | C8H16 | 014172-83-9 | 38 |
| 3 | 3-Hexene, 2,2-dimethyl-, (E)- | 112 | C8H16 | 000690-93-7 | 38 |
| 4 | 3-Hexene, 2,2-dimethyl-, (E)- | 112 | C8H16 | 000690-93-7 | 35 |
| 5 | trans-2,2-Dimethyl-3-hexene | 112 | C8H16 | 003123-93-1 | 35 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

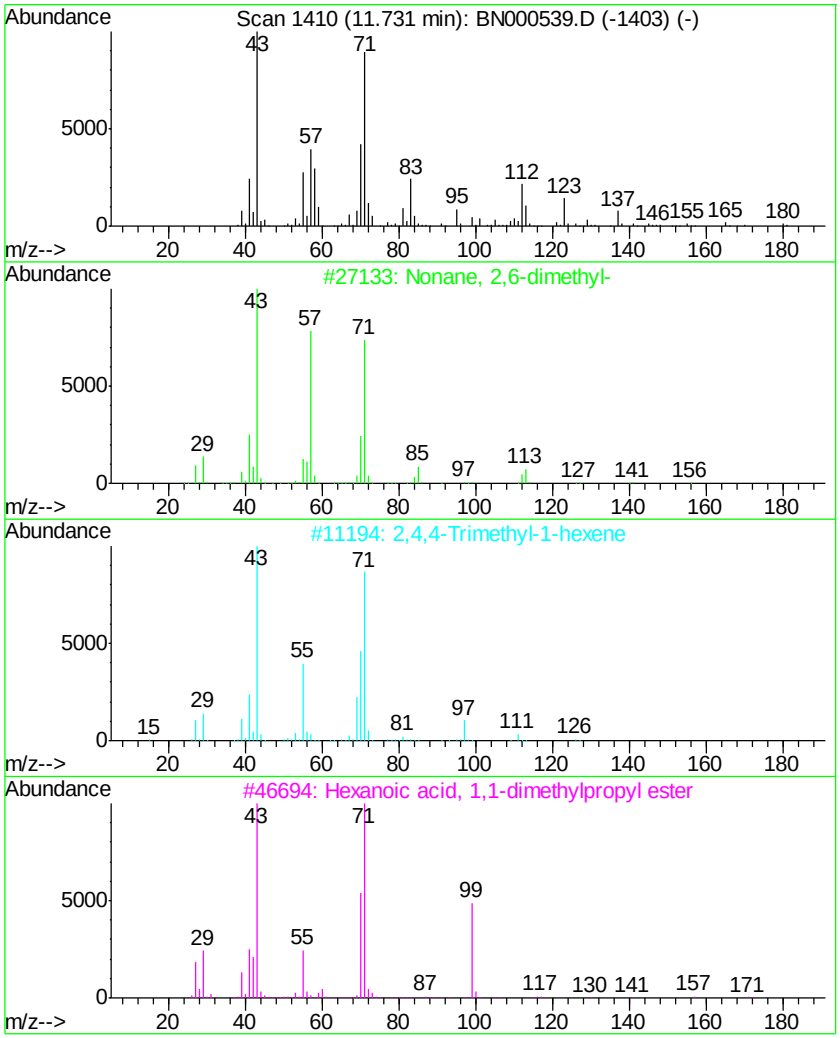
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

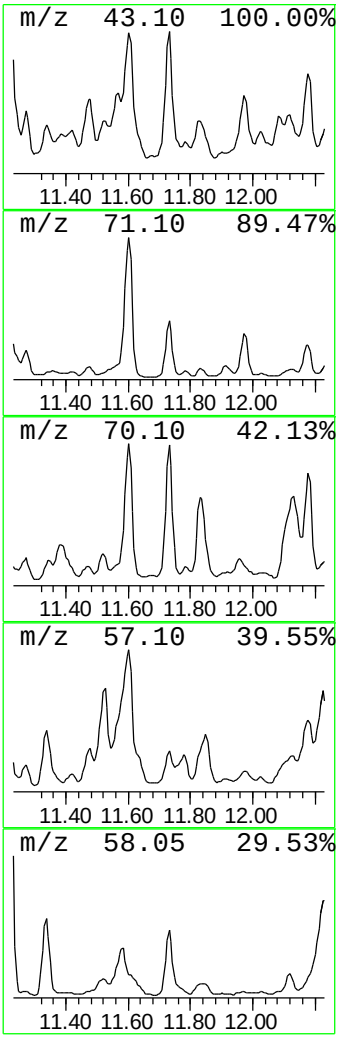
**********

Peak Number 32 (DEL) Alkane: Cyclic11.73 Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.73 | 14.35 ng/ul | 1897500 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 50 |
| 2 | 2,4,4-Trimethyl-1-hexene | 126 | C9H18 | 051174-12-0 | 43 |
| 3 | Hexanoic acid, 1,1-dimethylpropy... | 186 | C11H22O2 | 116423-69-9 | 43 |
| 4 | Octane, 3,3-dimethyl- | 142 | C10H22 | 004110-44-5 | 38 |
| 5 | 1-Methylcyclohexanol | 114 | C7H14O | 000590-67-0 | 38 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.M
Quant Title : SVOA CALIBRATION

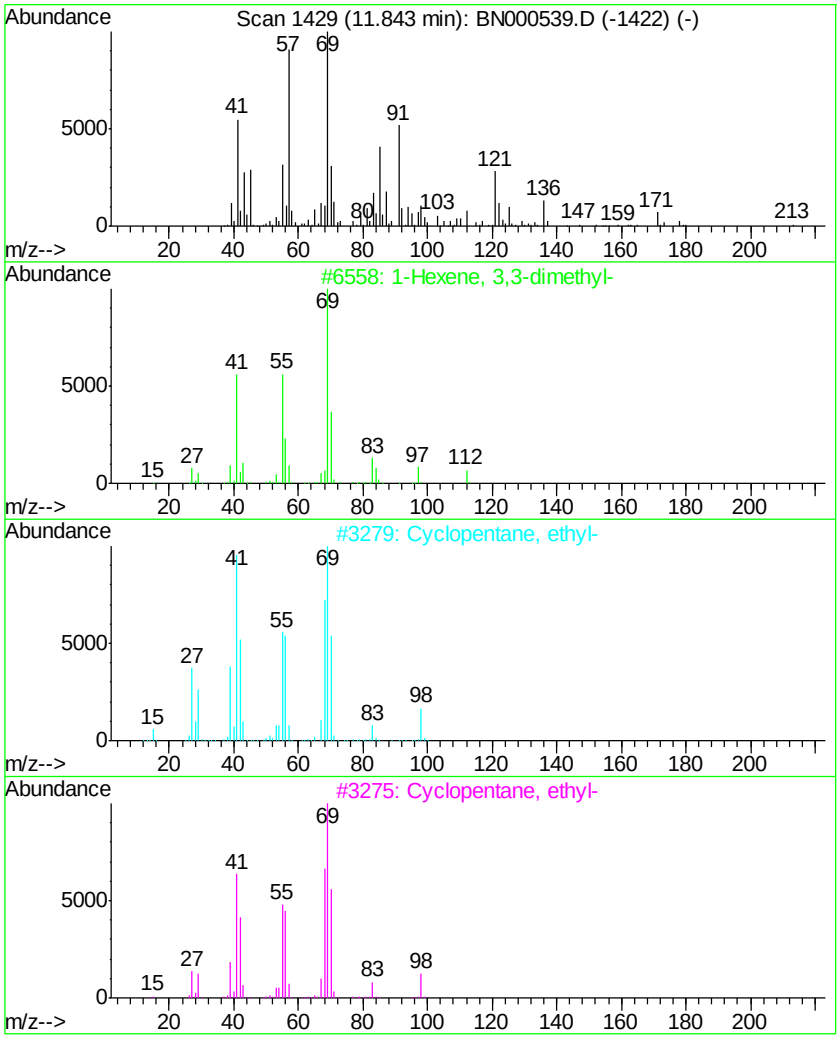
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

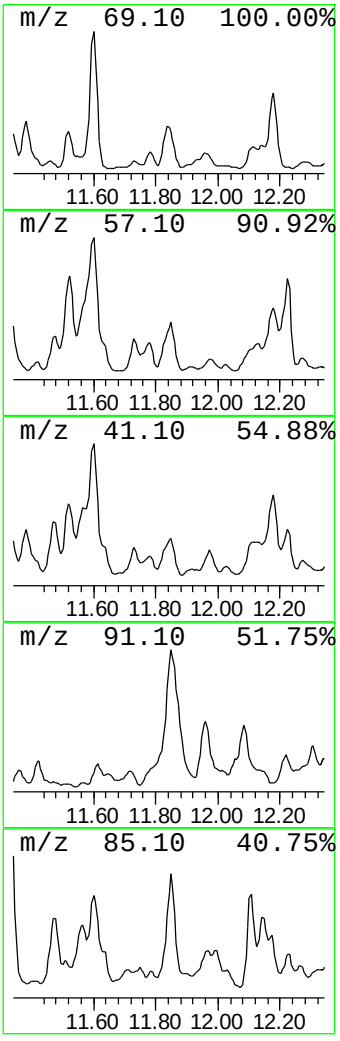
**********

Peak Number 33 (DEL) Alkane: Cyclic11.84 Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.84 | 19.31 ng/ul | 2552430 | Naphthalene-d8 | 11.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexene, 3,3-dimethyl- | 112 | C8H16 | 003404-77-1 | 47 |
| 2 | Cyclopentane, ethyl- | 98 | C7H14 | 001640-89-7 | 43 |
| 3 | Cyclopentane, ethyl- | 98 | C7H14 | 001640-89-7 | 43 |
| 4 | 1-Hexene, 3,3,5-trimethyl- | 126 | C9H18 | 013427-43-5 | 38 |
| 5 | 1-Hexene, 3,3,5-trimethyl- | 126 | C9H18 | 013427-43-5 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_N\DATA\BN032218\
Data File : BN000539.D
Acq On : 22 Mar 2018 14:28
Operator : JU/SJ
Sample : J1905-13DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DAM48DL

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN031918.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 |
| 3-Pentanone, 2,4-... | 4.70 | 8.3 | ng/ul | 904475 | 1 | 8.42 | 2187660 | 20.0 |
| 1-Butanol, 2-ethyl- | 5.41 | 20.2 | ng/ul | 2210130 | 1 | 8.42 | 2187660 | 20.0 |
| Hexane, 1,1'-oxybis- | 6.86 | 28.9 | ng/ul | 3162610 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-01 | 7.11 | 13.9 | ng/ul | 1525650 | 1 | 8.42 | 2187660 | 20.0 |
| Benzene, 1-ethyl-... | 7.47 | 12.4 | ng/ul | 1361700 | 1 | 8.42 | 2187660 | 20.0 |
| 4-Heptanone, 2,6-... | 7.53 | 16.2 | ng/ul | 1769130 | 1 | 8.42 | 2187660 | 20.0 |
| 2-Heptanone, 4,6-... | 7.81 | 48.5 | ng/ul | 5306700 | 1 | 8.42 | 2187660 | 20.0 |
| 2-Undecanol | 8.09 | 14.2 | ng/ul | 1551840 | 1 | 8.42 | 2187660 | 20.0 |
| 1-Hexanol, 2-ethyl- | 8.50 | 175.0 | ng/ul | 19143600 | 1 | 8.42 | 2187660 | 20.0 |
| Benzene, 1,2,3-tr... | 8.53 | 12.3 | ng/ul | 1342160 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-02 | 8.63 | 129.8 | ng/ul | 14200000 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-03 | 8.66 | 21.5 | ng/ul | 2352060 | 1 | 8.42 | 2187660 | 20.0 |
| Cyclohexanone, 3,... | 8.87 | 156.8 | ng/ul | 17148400 | 1 | 8.42 | 2187660 | 20.0 |
| Octane, 1-methoxy- | 9.01 | 11.2 | ng/ul | 1225800 | 1 | 8.42 | 2187660 | 20.0 |
| Benzene, 1-methyl... | 9.05 | 19.1 | ng/ul | 2089930 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-04 | 9.22 | 20.4 | ng/ul | 2235410 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-05 | 9.54 | 36.0 | ng/ul | 3939720 | 1 | 8.42 | 2187660 | 20.0 |
| unknown-06 | 9.80 | 28.5 | ng/ul | 3119010 | 1 | 8.42 | 2187660 | 20.0 |
| 2,5-Heptadien-4-o... | 9.85 | 65.0 | ng/ul | 8589920 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-07 | 9.95 | 53.9 | ng/ul | 7128420 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-08 | 10.03 | 65.7 | ng/ul | 8685600 | 2 | 11.26 | 2643800 | 20.0 |
| Benzene, 1,2,3,5-... | 10.12 | 6.5 | ng/ul | 864746 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-09 | 10.50 | 12.1 | ng/ul | 1594980 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-10 | 10.65 | 12.2 | ng/ul | 1609980 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-11 | 10.77 | 56.9 | ng/ul | 7518890 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-12 | 11.00 | 18.8 | ng/ul | 2486220 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-13 | 11.12 | 10.3 | ng/ul | 1366400 | 2 | 11.26 | 2643800 | 20.0 |
| 1,3-Propanediol, ... | 11.47 | 11.4 | ng/ul | 1510450 | 2 | 11.26 | 2643800 | 20.0 |
| unknown-14 | 11.52 | 17.3 | ng/ul | 2280950 | 2 | 11.26 | 2643800 | 20.0 |
| (DEL) Alkane: Cyc... | 11.73 | 14.4 | ng/ul | 1897500 | 2 | 11.26 | 2643800 | 20.0 |
| (DEL) Alkane: Cyc... | 11.84 | 19.3 | ng/ul | 2552430 | 2 | 11.26 | 2643800 | 20.0 |