LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.681 | 264 | 271 | 279 | rBV3 | 27889 | 54579 | 4.60% | 0.252% |
| 2 | 4.328 | 374 | 381 | 388 | rBV4 | 29780 | 55131 | 4.65% | 0.254% |
| 3 | 4.892 | 474 | 477 | 485 | rVV | 147320 | 188595 | 15.89% | 0.870% |
| 4 | 5.292 | 542 | 545 | 547 | rBV | 68835 | 68077 | 5.74% | 0.314% |
| 5 | 5.328 | 547 | 551 | 555 | rVB | 1316121 | 1186569 | 100.00% | 5.474% |
| 6 | 5.557 | 584 | 590 | 599 | rVB3 | 75940 | 113923 | 9.60% | 0.526% |
| 7 | 5.639 | 599 | 604 | 607 | rBV | 47245 | 55860 | 4.71% | 0.258% |
| 8 | 5.881 | 642 | 645 | 650 | rVB3 | 47094 | 52446 | 4.42% | 0.242% |
| 9 | 5.981 | 659 | 662 | 668 | rVB2 | 56223 | 60672 | 5.11% | 0.280% |
| 10 | 6.181 | 689 | 696 | 699 | rBV3 | 29810 | 51242 | 4.32% | 0.236% |
| 11 | 6.263 | 703 | 710 | 716 | rVB3 | 45027 | 92599 | 7.80% | 0.427% |
| 12 | 6.328 | 716 | 721 | 722 | rBV3 | 40539 | 42073 | 3.55% | 0.194% |
| 13 | 6.357 | 722 | 726 | 731 | rVV | 1145943 | 1058121 | 89.17% | 4.881% |
| 14 | 6.492 | 745 | 749 | 752 | rBV | 1146516 | 1062027 | 89.50% | 4.899% |
| 15 | 6.551 | 756 | 759 | 761 | rBV | 77178 | 60388 | 5.09% | 0.279% |
| 16 | 6.575 | 761 | 763 | 765 | rVB | 73603 | 50643 | 4.27% | 0.234% |
| 17 | 6.722 | 784 | 788 | 791 | rVV | 929328 | 746604 | 62.92% | 3.444% |
| 18 | 6.751 | 791 | 793 | 796 | rVB2 | 51949 | 46711 | 3.94% | 0.215% |
| 19 | 6.786 | 796 | 799 | 804 | rBV3 | 43630 | 45778 | 3.86% | 0.211% |
| 20 | 6.881 | 811 | 815 | 819 | rVB | 924336 | 823045 | 69.36% | 3.797% |
| 21 | 7.051 | 840 | 844 | 846 | rBV2 | 49387 | 48589 | 4.09% | 0.224% |
| 22 | 7.122 | 853 | 856 | 860 | rBV | 56315 | 59404 | 5.01% | 0.274% |
| 23 | 7.281 | 876 | 883 | 886 | rBV | 784128 | 738405 | 62.23% | 3.406% |
| 24 | 7.333 | 889 | 892 | 895 | rVB | 134953 | 112328 | 9.47% | 0.518% |
| 25 | 7.375 | 895 | 899 | 903 | rBV4 | 48296 | 57949 | 4.88% | 0.267% |
| 26 | 7.533 | 922 | 926 | 932 | rVB4 | 29428 | 50331 | 4.24% | 0.232% |
| 27 | 8.004 | 1002 | 1006 | 1008 | rBV | 1279276 | 1056636 | 89.05% | 4.874% |
| 28 | 8.028 | 1008 | 1010 | 1012 | rVB | 209430 | 150026 | 12.64% | 0.692% |
| 29 | 8.086 | 1017 | 1020 | 1022 | rVB | 53193 | 44209 | 3.73% | 0.204% |
| 30 | 8.398 | 1070 | 1073 | 1075 | rVV2 | 39081 | 41899 | 3.53% | 0.193% |
| 31 | 8.445 | 1078 | 1081 | 1084 | rVV | 120472 | 107784 | 9.08% | 0.497% |
| 32 | 8.610 | 1107 | 1109 | 1112 | rVV | 165363 | 124626 | 10.50% | 0.575% |
| 33 | 8.716 | 1121 | 1127 | 1130 | rVB | 279064 | 251824 | 21.22% | 1.162% |
| 34 | 8.816 | 1141 | 1144 | 1147 | rVV | 198267 | 156802 | 13.21% | 0.723% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.039 | 1180 | 1182 | 1185 | rVB | 76879 | 69421 | 5.85% | 0.320% |
| 36 | 9.080 | 1185 | 1189 | 1192 | rBV | 1486002 | 1152228 | 97.11% | 5.315% |
| 37 | 9.175 | 1202 | 1205 | 1210 | rBV2 | 238287 | 208359 | 17.56% | 0.961% |
| 38 | 9.275 | 1219 | 1222 | 1227 | rVB | 42759 | 56568 | 4.77% | 0.261% |
| 39 | 9.339 | 1227 | 1233 | 1238 | rBV2 | 101480 | 150628 | 12.69% | 0.695% |
| 40 | 9.416 | 1243 | 1246 | 1248 | rBV | 141800 | 118319 | 9.97% | 0.546% |
| 41 | 9.445 | 1248 | 1251 | 1253 | rVB | 105785 | 86773 | 7.31% | 0.400% |
| 42 | 9.475 | 1253 | 1256 | 1258 | rBV | 175914 | 146251 | 12.33% | 0.675% |
| 43 | 9.498 | 1258 | 1260 | 1262 | rVB | 99767 | 69308 | 5.84% | 0.320% |
| 44 | 9.533 | 1264 | 1266 | 1268 | rBV | 64920 | 46646 | 3.93% | 0.215% |
| 45 | 9.616 | 1276 | 1280 | 1284 | rBV | 208447 | 195918 | 16.51% | 0.904% |
| 46 | 9.663 | 1286 | 1288 | 1292 | rVB4 | 42644 | 63431 | 5.35% | 0.293% |
| 47 | 9.704 | 1292 | 1295 | 1298 | rVB | 203326 | 158601 | 13.37% | 0.732% |
| 48 | 9.757 | 1298 | 1304 | 1307 | rBV | 1127930 | 988033 | 83.27% | 4.558% |
| 49 | 9.863 | 1318 | 1322 | 1326 | rBV2 | 35591 | 58213 | 4.91% | 0.269% |
| 50 | 9.957 | 1335 | 1338 | 1342 | rVB | 161513 | 163309 | 13.76% | 0.753% |
| 51 | 9.998 | 1342 | 1345 | 1347 | rBV | 56565 | 49599 | 4.18% | 0.229% |
| 52 | 10.027 | 1347 | 1350 | 1354 | rVB4 | 55286 | 60700 | 5.12% | 0.280% |
| 53 | 10.074 | 1354 | 1358 | 1360 | rBV2 | 56592 | 67388 | 5.68% | 0.311% |
| 54 | 10.169 | 1370 | 1374 | 1377 | rBV3 | 67107 | 88280 | 7.44% | 0.407% |
| 55 | 10.204 | 1377 | 1380 | 1383 | rVB | 192728 | 153059 | 12.90% | 0.706% |
| 56 | 10.298 | 1393 | 1396 | 1398 | rVV2 | 78219 | 60670 | 5.11% | 0.280% |
| 57 | 10.422 | 1413 | 1417 | 1420 | rBV3 | 87390 | 96341 | 8.12% | 0.444% |
| 58 | 10.457 | 1420 | 1423 | 1425 | rVV2 | 64928 | 73730 | 6.21% | 0.340% |
| 59 | 10.539 | 1433 | 1437 | 1441 | rVV | 642409 | 578176 | 48.73% | 2.667% |
| 60 | 10.586 | 1441 | 1445 | 1449 | rVB5 | 35962 | 47071 | 3.97% | 0.217% |
| 61 | 10.674 | 1456 | 1460 | 1461 | rBV | 251057 | 228531 | 19.26% | 1.054% |
| 62 | 10.686 | 1461 | 1462 | 1466 | rVB | 217755 | 178327 | 15.03% | 0.823% |
| 63 | 10.980 | 1510 | 1512 | 1513 | rVV | 46549 | 41495 | 3.50% | 0.191% |
| 64 | 11.016 | 1517 | 1518 | 1520 | rVV | 61491 | 42011 | 3.54% | 0.194% |
| 65 | 11.039 | 1520 | 1522 | 1526 | rVV | 96153 | 86086 | 7.26% | 0.397% |
| 66 | 11.086 | 1527 | 1530 | 1533 | rVV3 | 44014 | 59837 | 5.04% | 0.276% |
| 67 | 11.121 | 1533 | 1536 | 1539 | rVV2 | 208263 | 187269 | 15.78% | 0.864% |
| 68 | 11.151 | 1539 | 1541 | 1546 | rVB | 73944 | 72139 | 6.08% | 0.333% |
| 69 | 11.233 | 1552 | 1555 | 1557 | rBV | 812717 | 685696 | 57.79% | 3.163% |
| 70 | 11.257 | 1557 | 1559 | 1562 | rVB | 325472 | 250373 | 21.10% | 1.155% |
| 71 | 11.310 | 1565 | 1568 | 1571 | rVB | 235547 | 179979 | 15.17% | 0.830% |

LSC Area Percent Report

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Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.463 | 1591 | 1594 | 1597 | rBV | 59811 | 60441 | 5.09% | 0.279% |
| 73 | 11.545 | 1605 | 1608 | 1611 | rBV | 137815 | 119122 | 10.04% | 0.550% |
| 74 | 11.739 | 1638 | 1641 | 1643 | rBV | 61301 | 59572 | 5.02% | 0.275% |
| 75 | 11.768 | 1643 | 1646 | 1650 | rVB2 | 181081 | 216023 | 18.21% | 0.997% |
| 76 | 11.810 | 1650 | 1653 | 1656 | rVB2 | 71446 | 62636 | 5.28% | 0.289% |
| 77 | 11.845 | 1656 | 1659 | 1661 | rBV | 116991 | 117874 | 9.93% | 0.544% |
| 78 | 11.868 | 1661 | 1663 | 1669 | rVB | 74414 | 65744 | 5.54% | 0.303% |
| 79 | 11.951 | 1675 | 1677 | 1683 | rVB | 133514 | 140068 | 11.80% | 0.646% |
| 80 | 12.033 | 1688 | 1691 | 1692 | rVV | 67789 | 60382 | 5.09% | 0.279% |
| 81 | 12.051 | 1692 | 1694 | 1699 | rVB2 | 79314 | 70580 | 5.95% | 0.326% |
| 82 | 12.286 | 1731 | 1734 | 1737 | rBV2 | 108832 | 106176 | 8.95% | 0.490% |
| 83 | 12.339 | 1741 | 1743 | 1746 | rVV | 126933 | 113060 | 9.53% | 0.522% |
| 84 | 12.368 | 1746 | 1748 | 1752 | rVB2 | 79455 | 81886 | 6.90% | 0.378% |
| 85 | 12.445 | 1758 | 1761 | 1764 | rBV | 523662 | 430833 | 36.31% | 1.987% |
| 86 | 12.557 | 1778 | 1780 | 1786 | rBV5 | 50410 | 64186 | 5.41% | 0.296% |
| 87 | 12.668 | 1796 | 1799 | 1802 | rVB | 365331 | 323479 | 27.26% | 1.492% |
| 88 | 12.710 | 1805 | 1806 | 1809 | rVB2 | 56237 | 43019 | 3.63% | 0.198% |
| 89 | 12.815 | 1821 | 1824 | 1828 | rVB | 763145 | 739435 | 62.32% | 3.411% |
| 90 | 13.104 | 1870 | 1873 | 1875 | rBV | 105045 | 99867 | 8.42% | 0.461% |
| 91 | 13.410 | 1923 | 1925 | 1930 | rVB2 | 103051 | 100244 | 8.45% | 0.462% |
| 92 | 13.504 | 1939 | 1941 | 1944 | rBV | 108295 | 83784 | 7.06% | 0.386% |
| 93 | 13.680 | 1969 | 1971 | 1974 | rVB | 118254 | 100906 | 8.50% | 0.465% |
| 94 | 13.868 | 1998 | 2003 | 2006 | rBV2 | 822546 | 1128476 | 95.10% | 5.206% |
| 95 | 13.892 | 2006 | 2007 | 2009 | rVB | 295765 | 162683 | 13.71% | 0.750% |
| 96 | 14.009 | 2025 | 2027 | 2031 | rVB | 107590 | 80920 | 6.82% | 0.373% |
| 97 | 14.051 | 2031 | 2034 | 2036 | rBV2 | 226195 | 195096 | 16.44% | 0.900% |
| 98 | 14.886 | 2173 | 2176 | 2178 | rBV | 241548 | 290541 | 24.49% | 1.340% |
| 99 | 15.162 | 2221 | 2223 | 2229 | rVB | 245650 | 306326 | 25.82% | 1.413% |
| 100 | 15.286 | 2241 | 2244 | 2247 | rVB | 312787 | 319620 | 26.94% | 1.474% |

Sum of corrected areas: 21677637

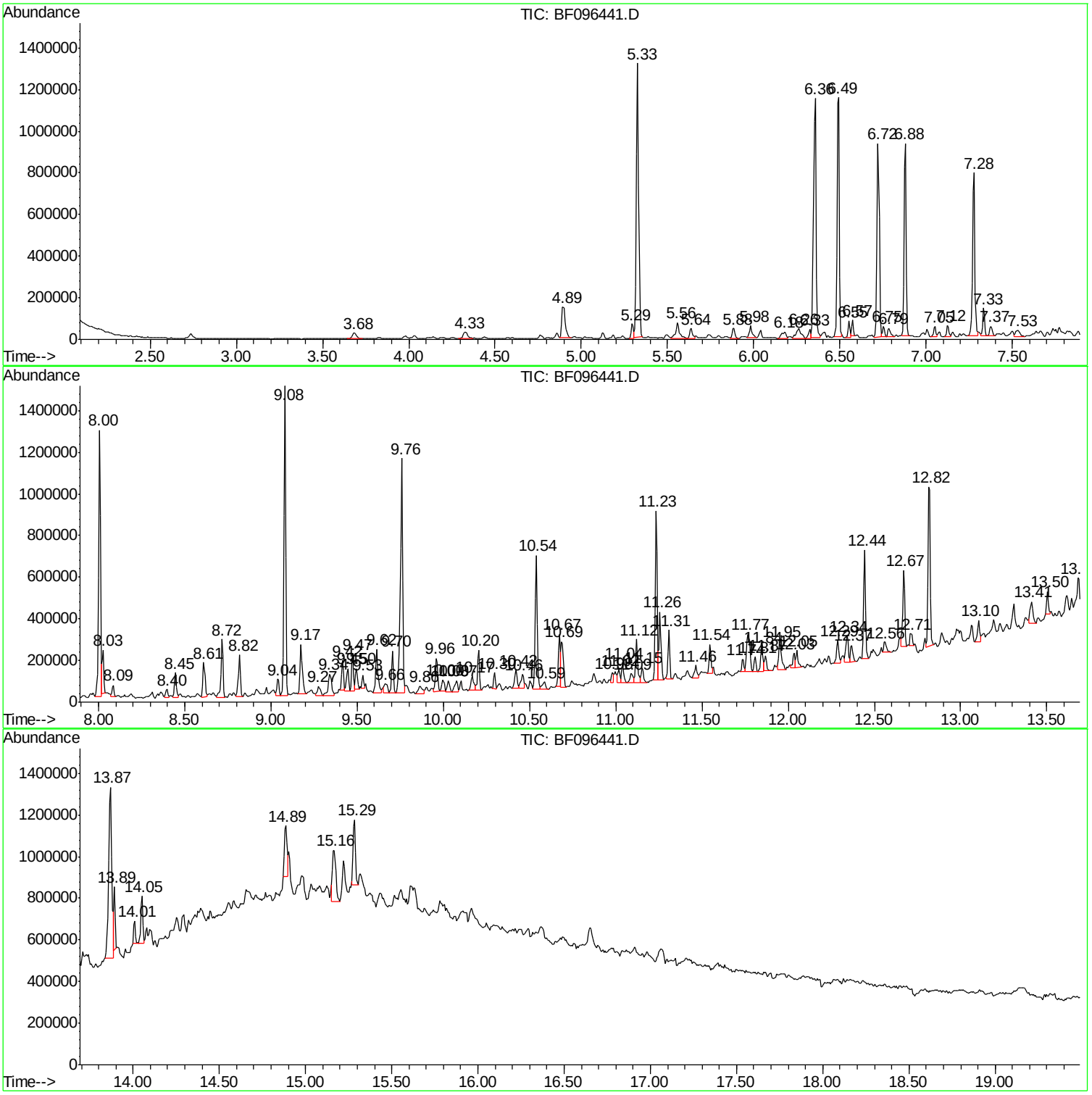
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

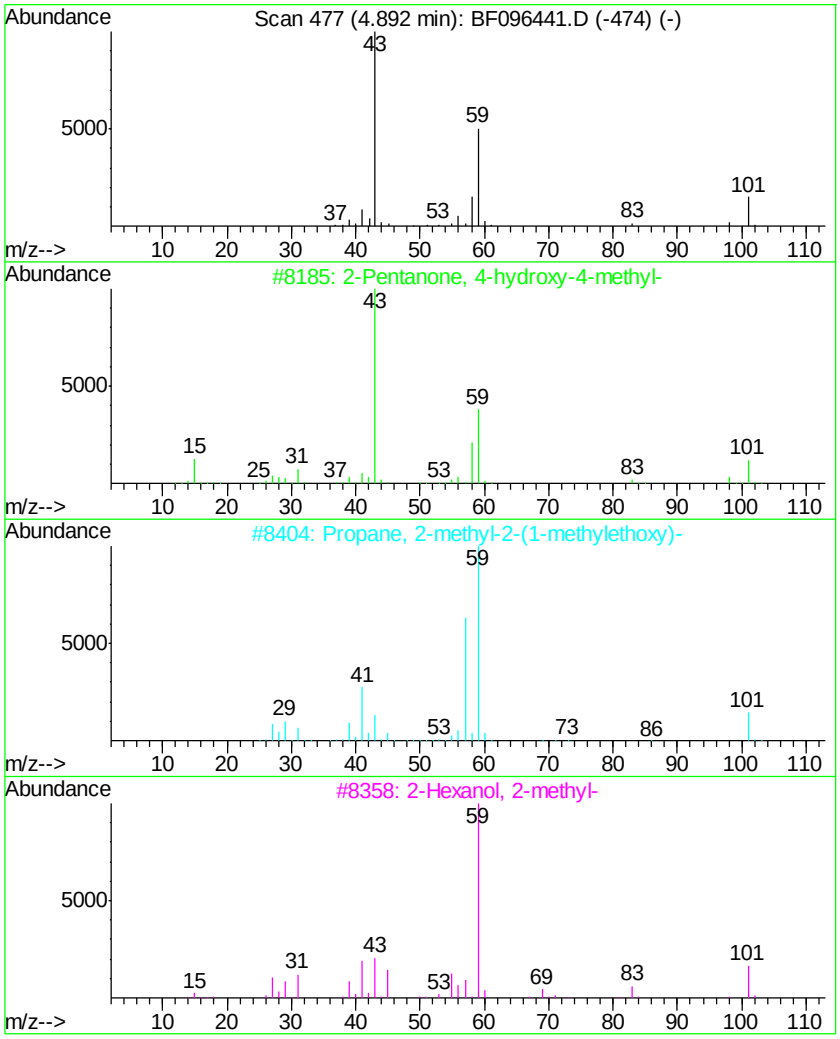
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

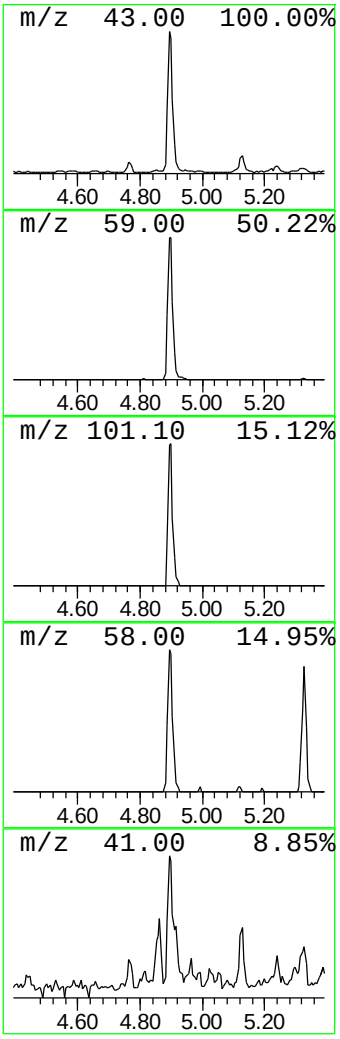
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.89 | 5.05 ng | 188595 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 36 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 4 | 1,2-Butanediol | 90 | C4H10O2 | 000584-03-2 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

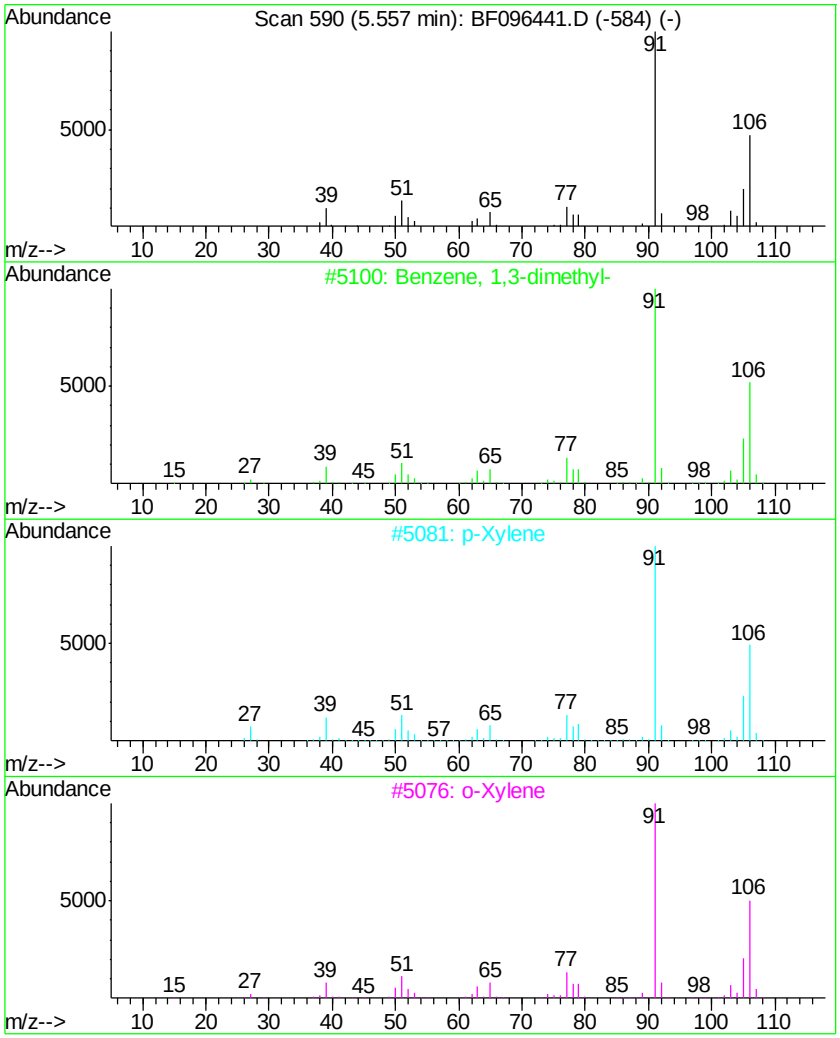
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

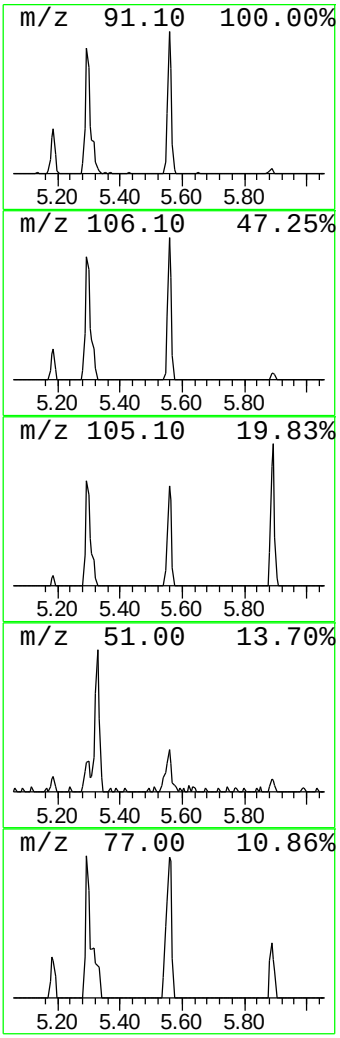
**********

Peak Number 2 Benzene, 1,3-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.56 | 3.05 ng | 113923 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl- | 106 | C8H10 | 000108-38-3 | 94 |
| 2 | p-Xylene | 106 | C8H10 | 000106-42-3 | 94 |
| 3 | o-Xylene | 106 | C8H10 | 000095-47-6 | 94 |
| 4 | 1,3-Cyclopentadiene, 5-(1-methyl... | 106 | C8H10 | 002175-91-9 | 83 |
| 5 | Ethylbenzene | 106 | C8H10 | 000100-41-4 | 76 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

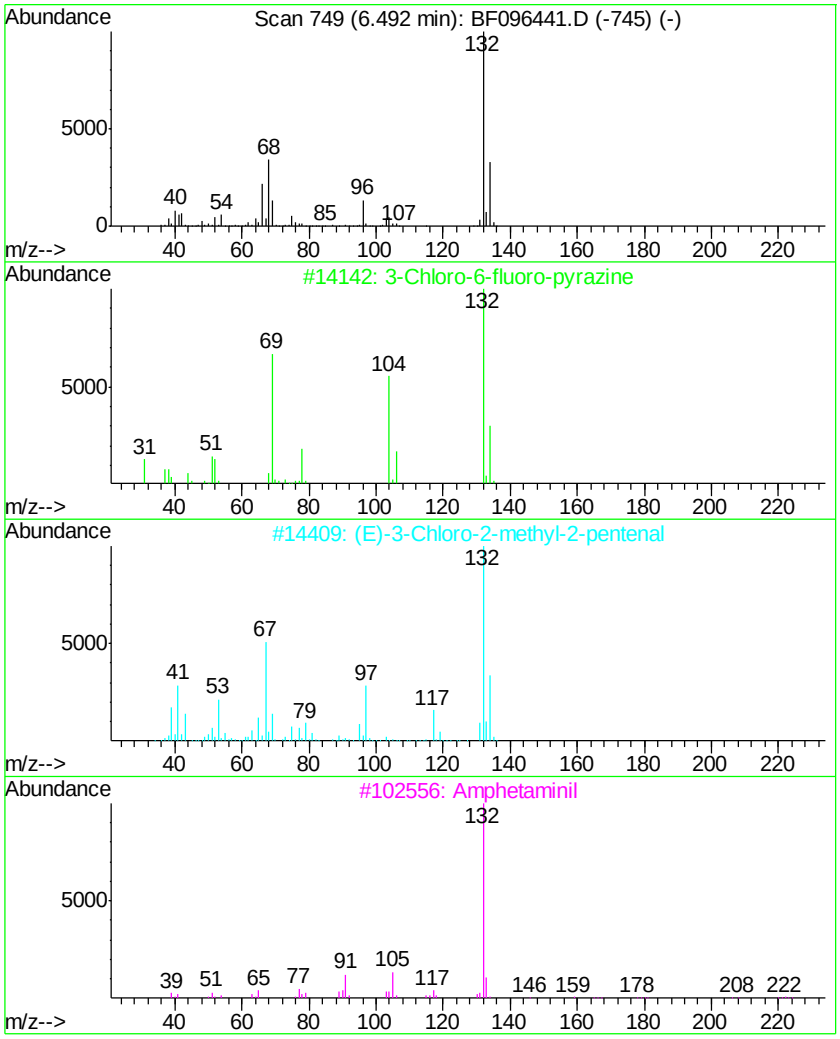
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

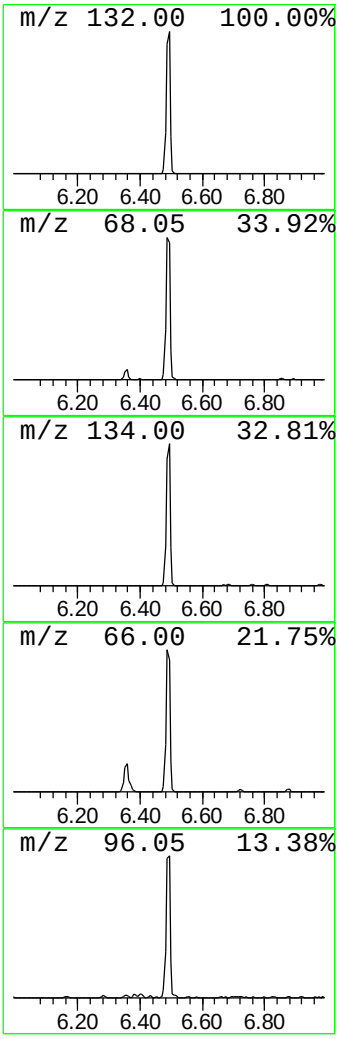
**********

Peak Number 3 unknown6.49 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 28.45 ng | 1062030 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

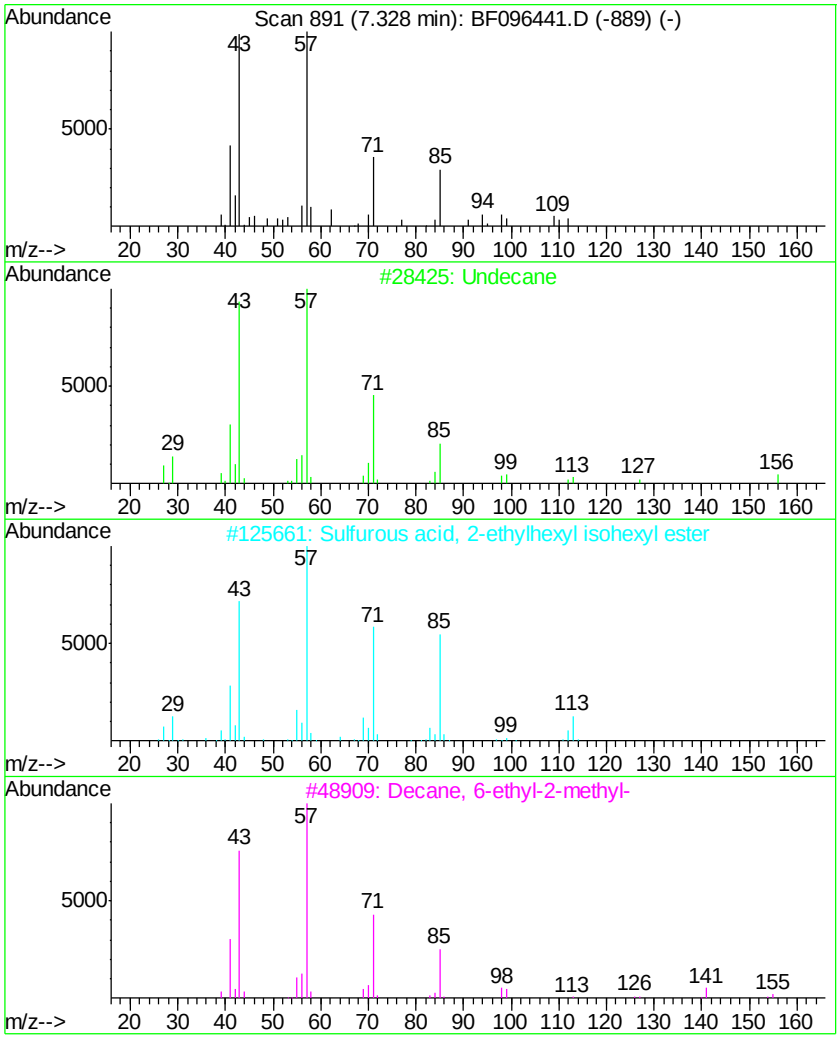
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

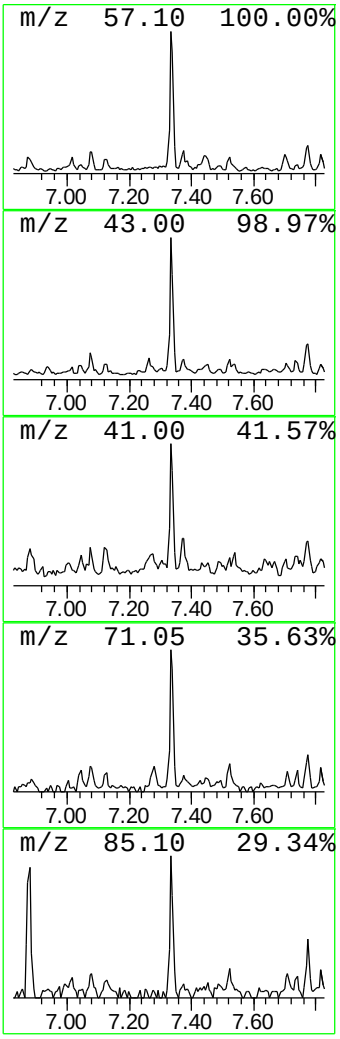
**********

Peak Number 5 Undecane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.33 | 3.01 ng | 112328 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 87 |
| 2 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 78 |
| 3 | Decane, 6-ethyl-2-methyl- | 184 | C13H28 | 062108-21-8 | 78 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 78 |
| 5 | Sulfurous acid, hexyl octyl ester | 278 | C14H30O3S | 1000309-13-0 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

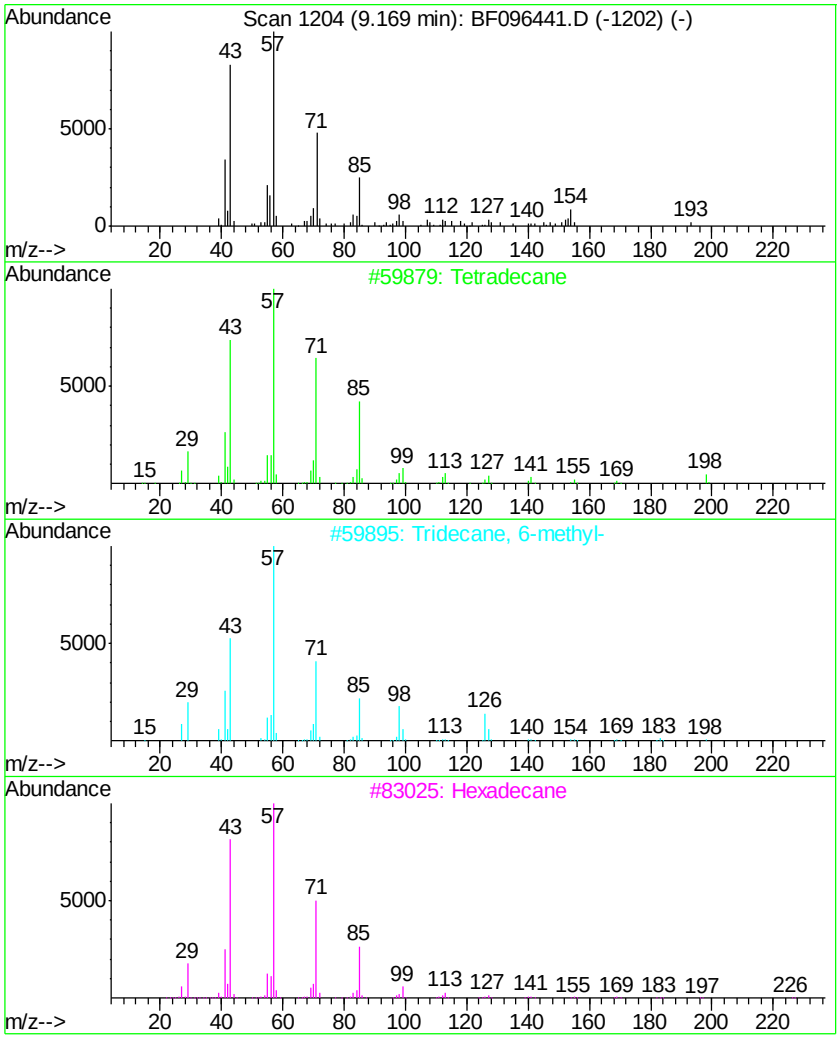
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

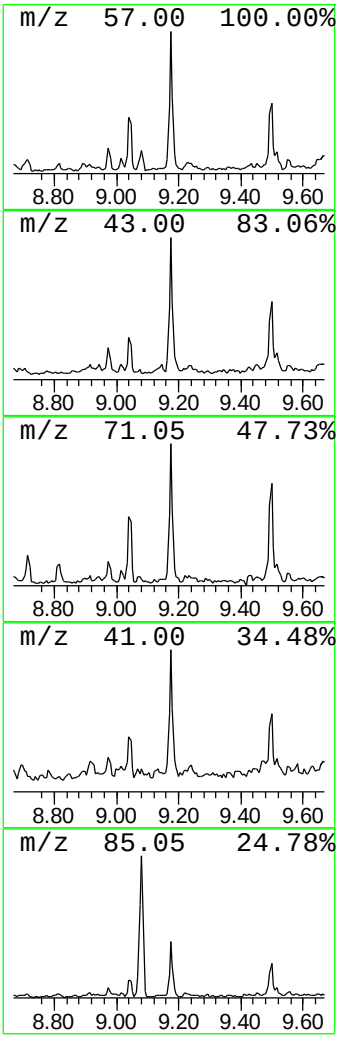
**********

Peak Number 6 Tetradecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.17 | 4.22 ng | 208359 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 70 |
| 2 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 64 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 62 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 58 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 58 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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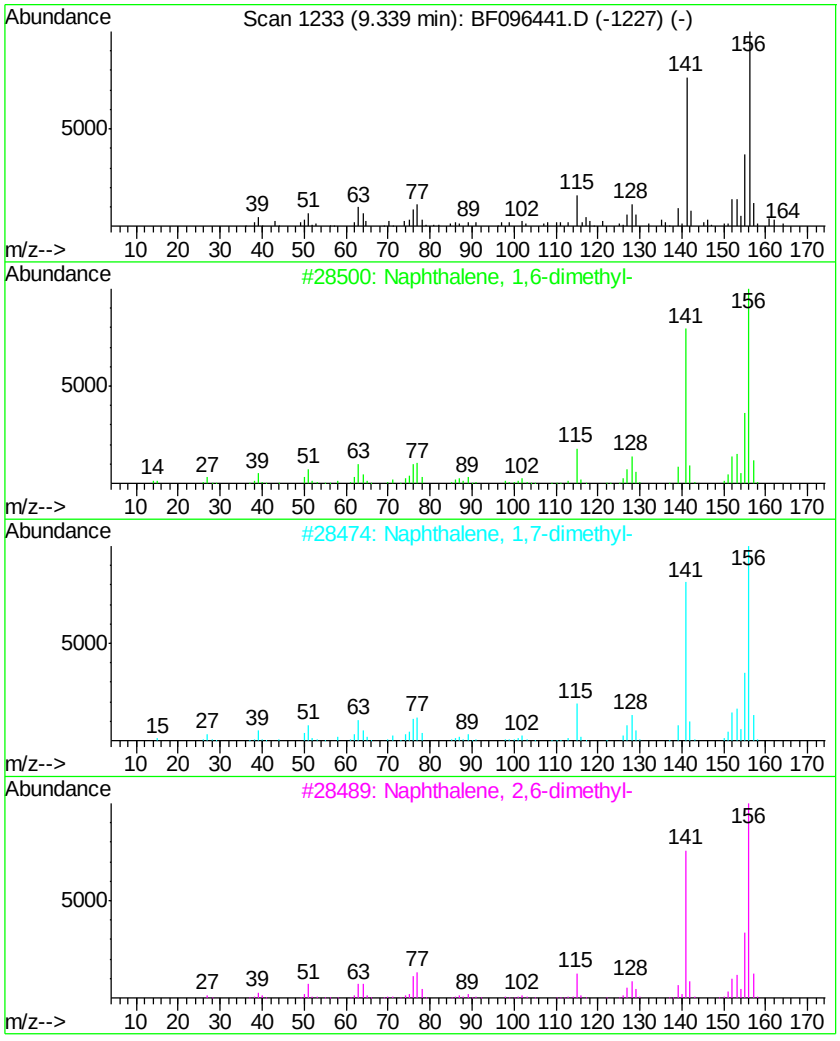
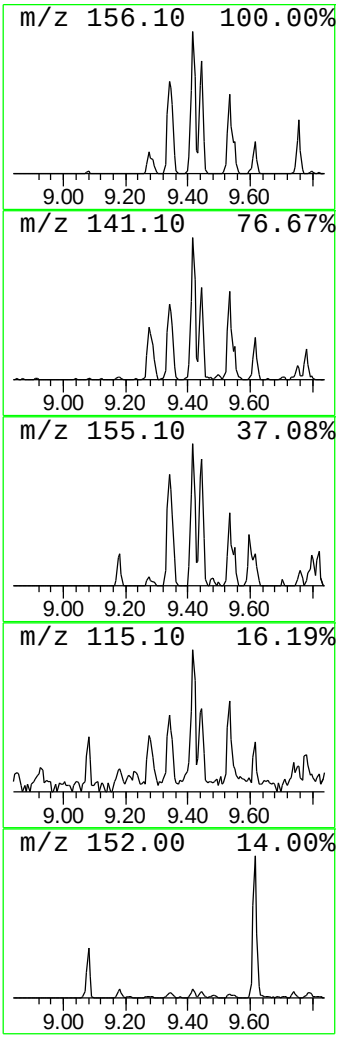
Peak Number 7 Naphthalene, 1,6-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.34 | 3.05 ng | 150628 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 4 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 96 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



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Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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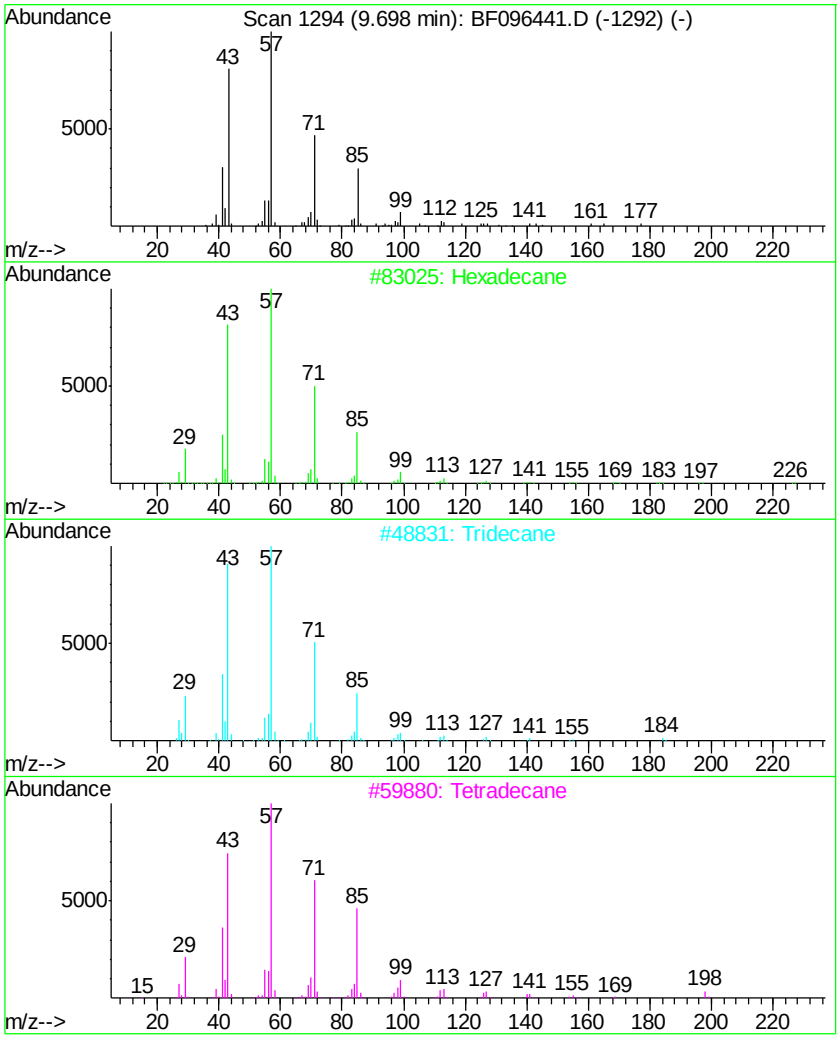
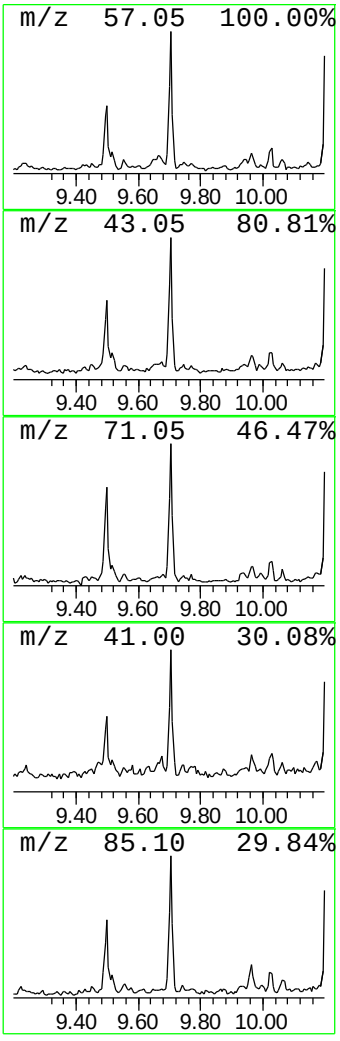
Peak Number 8 Hexadecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.70 | 3.21 ng | 158601 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 80 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 80 |
| 5 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 72 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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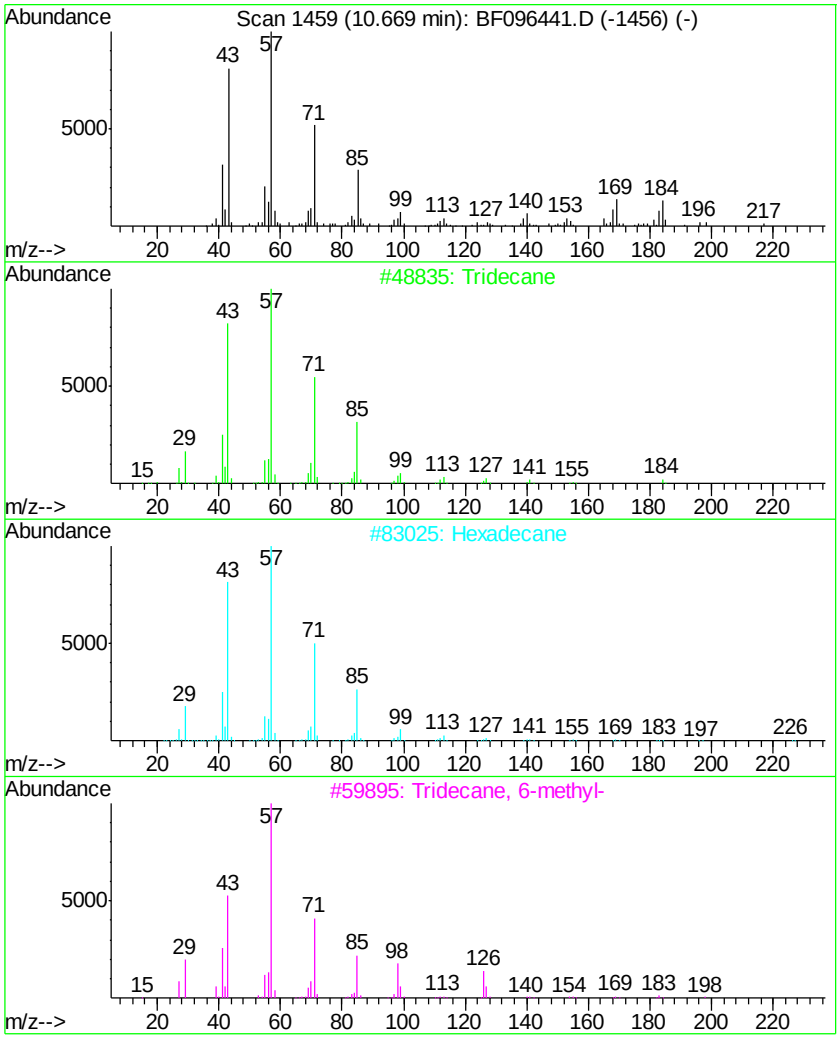
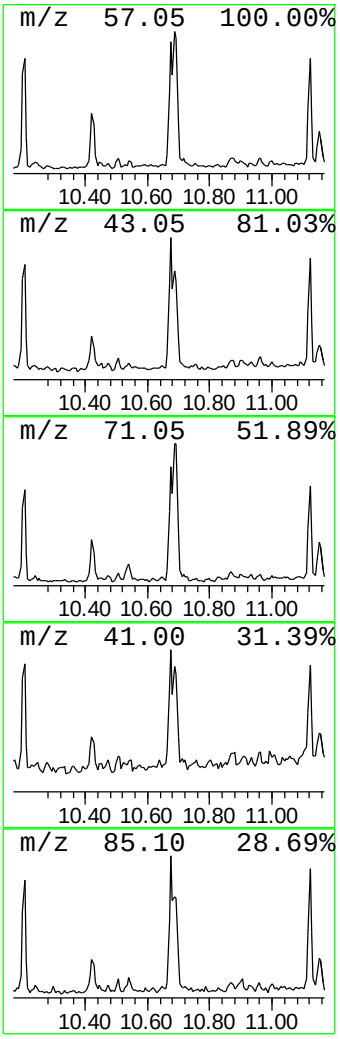
Peak Number 10 Tridecane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 6.67 ng | 228531 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 3 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 72 |
| 4 | Undecane, 3-methyl- | 170 | C12H26 | 001002-43-3 | 64 |
| 5 | Tetradecane | 198 | C14H30 | 000629-59-4 | 64 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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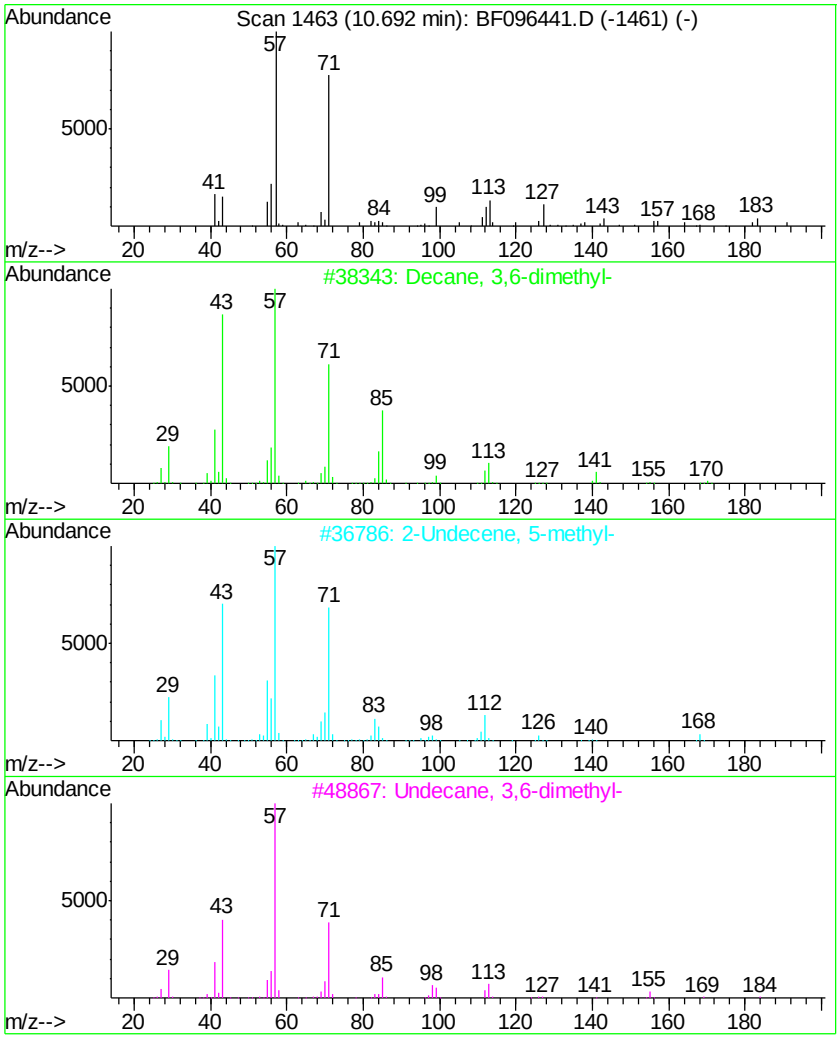
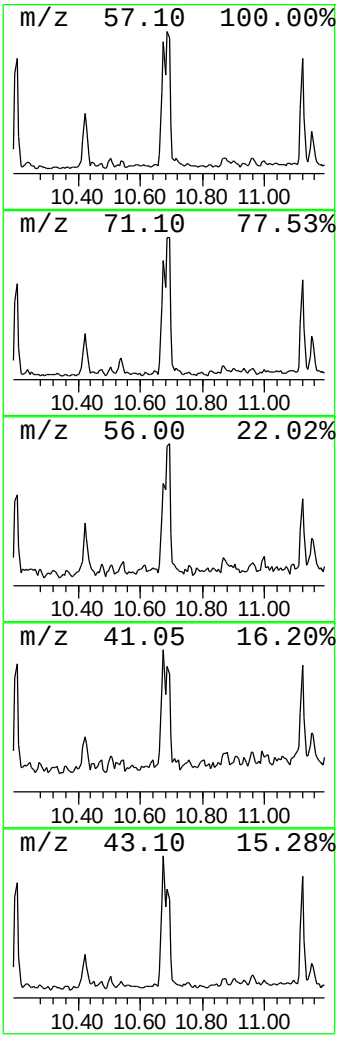
Peak Number 11 Decane, 3,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.69 | 5.20 ng | 178327 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,6-dimethyl- | 170 | C12H26 | 017312-53-7 | 64 |
| 2 | 2-Undecene, 5-methyl- | 168 | C12H24 | 056851-34-4 | 53 |
| 3 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 53 |
| 4 | Undecane, 6-ethyl- | 184 | C13H28 | 017312-60-6 | 53 |
| 5 | Undecane, 4,6-dimethyl- | 184 | C13H28 | 017312-82-2 | 50 |



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Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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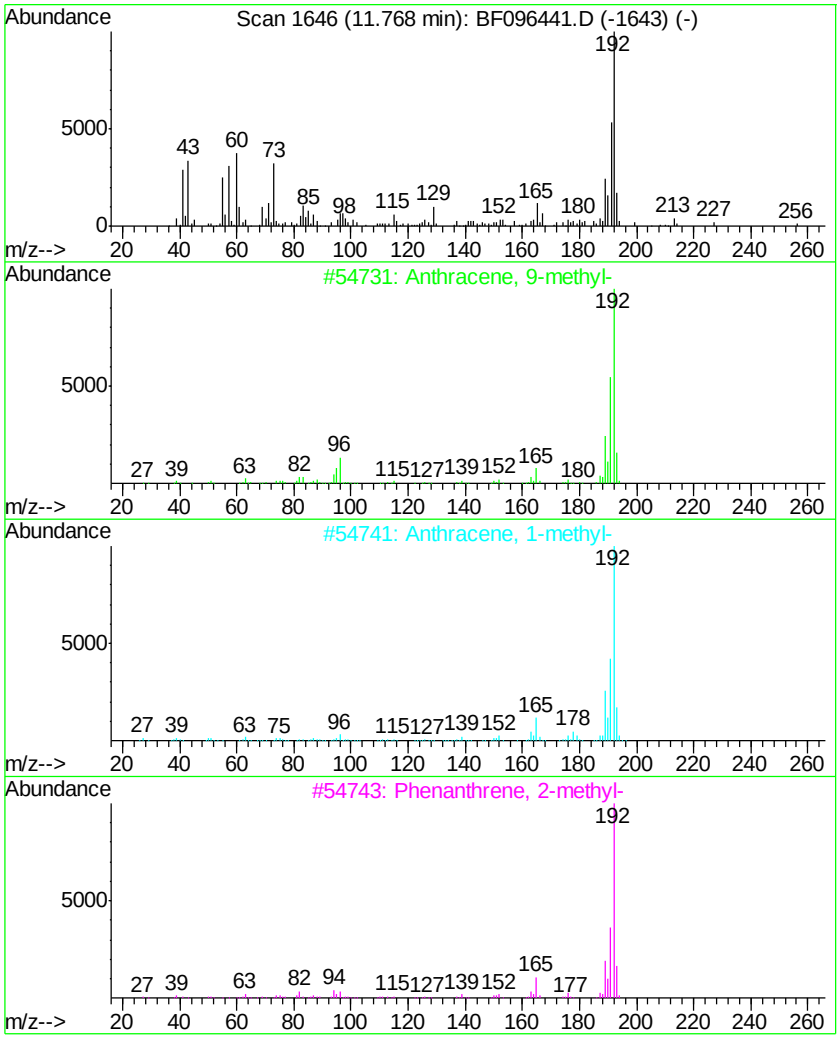
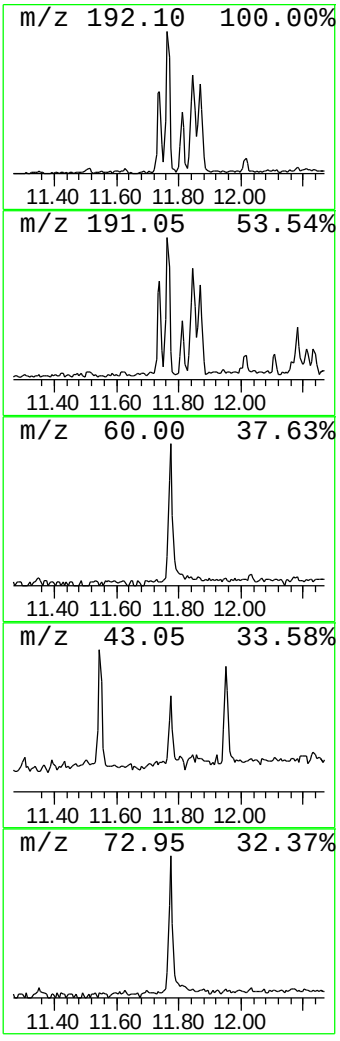
Peak Number 14 Anthracene, 9-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 6.30 ng | 216023 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 83 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 83 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 83 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 83 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 78 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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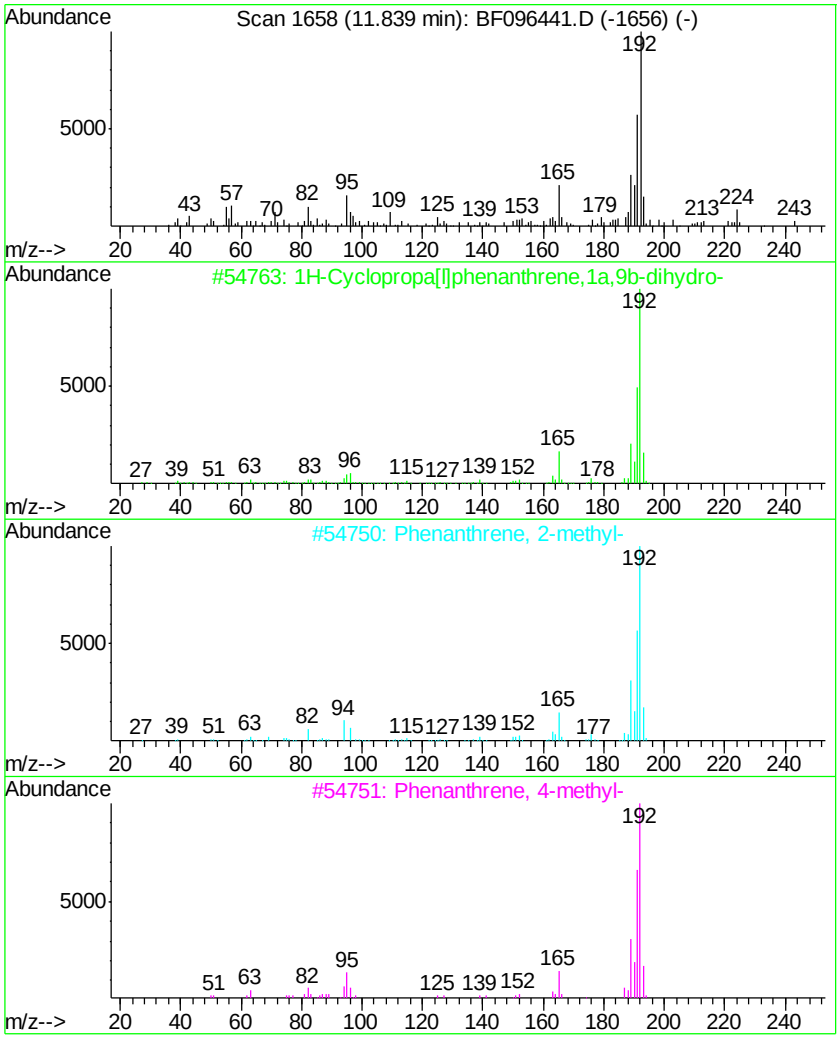
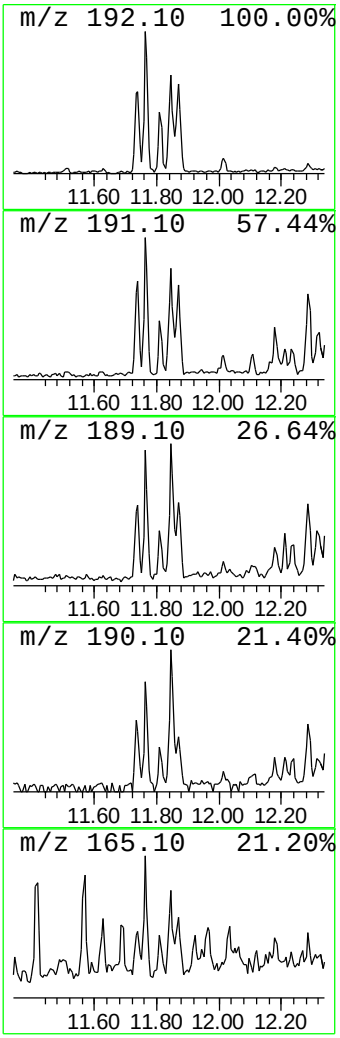
Peak Number 15 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.84 | 3.44 ng | 117874 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 92 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 91 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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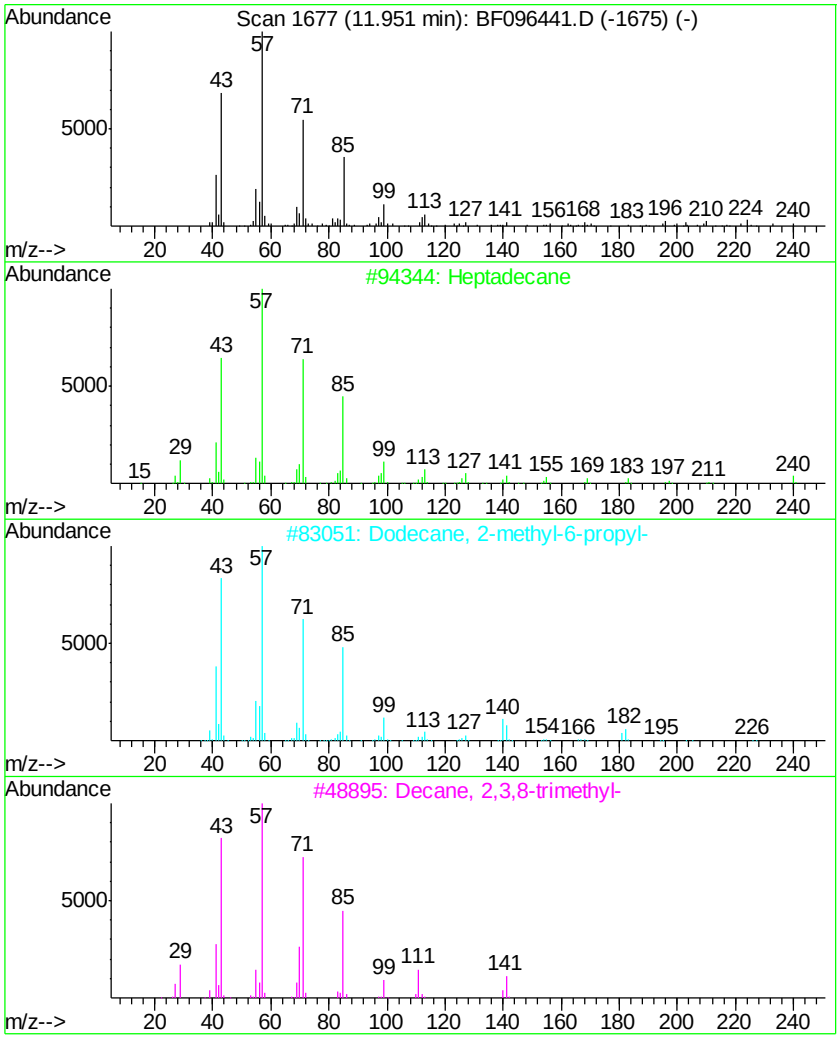
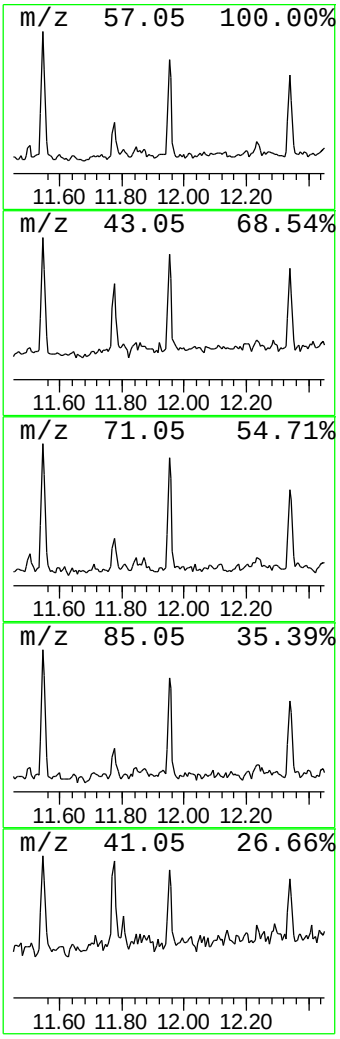
Peak Number 16 Heptadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.95 | 4.09 ng | 140068 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 80 |
| 2 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 80 |
| 3 | Decane, 2,3,8-trimethyl- | 184 | C13H28 | 062238-14-6 | 72 |
| 4 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 72 |
| 5 | Octane, 5-ethyl-2-methyl- | 156 | C11H24 | 062016-18-6 | 64 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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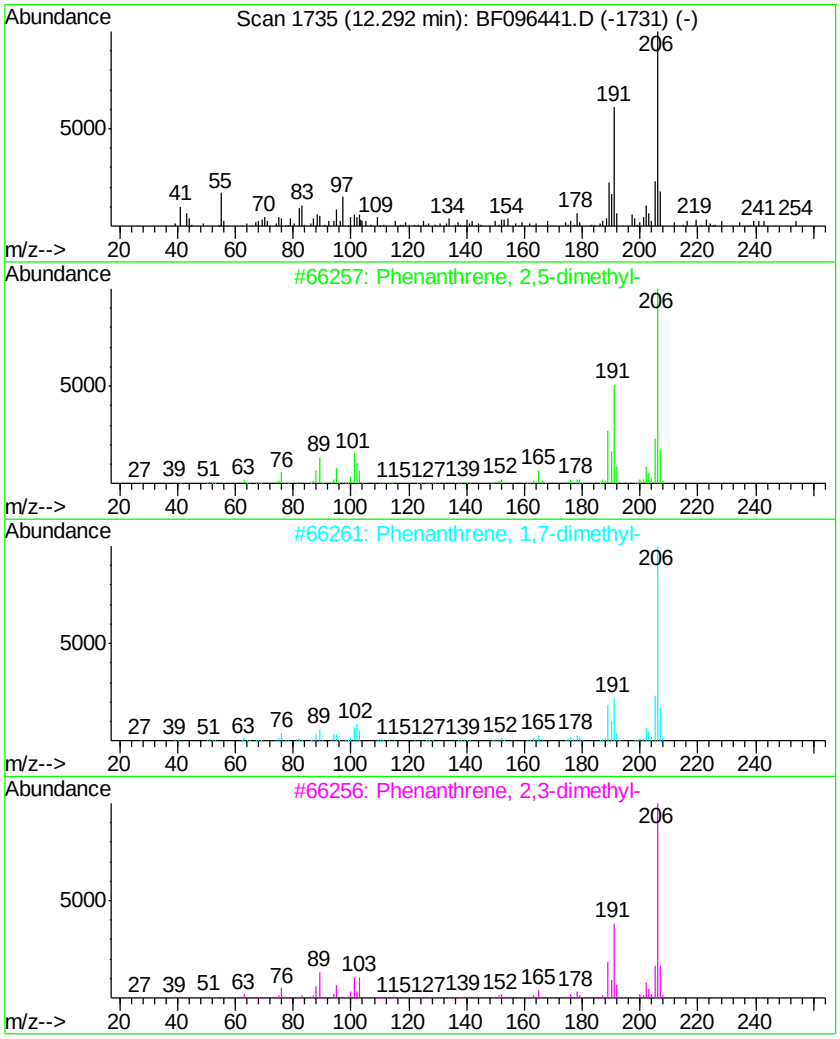
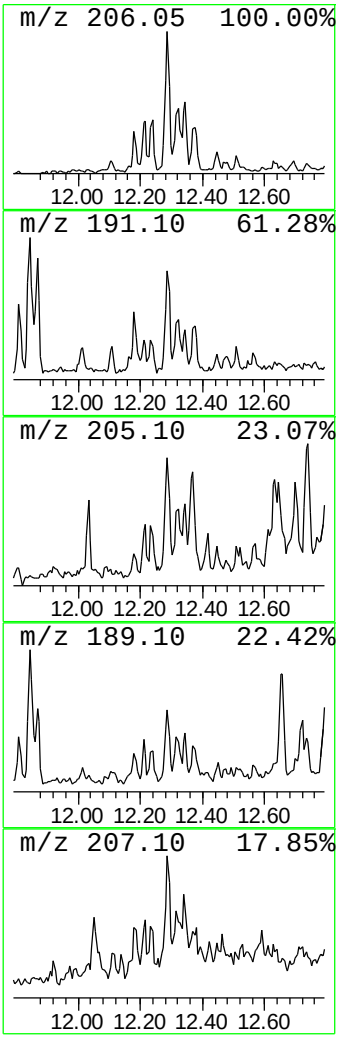
Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.29 | 3.10 ng | 106176 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 89 |
| 5 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 89 |



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Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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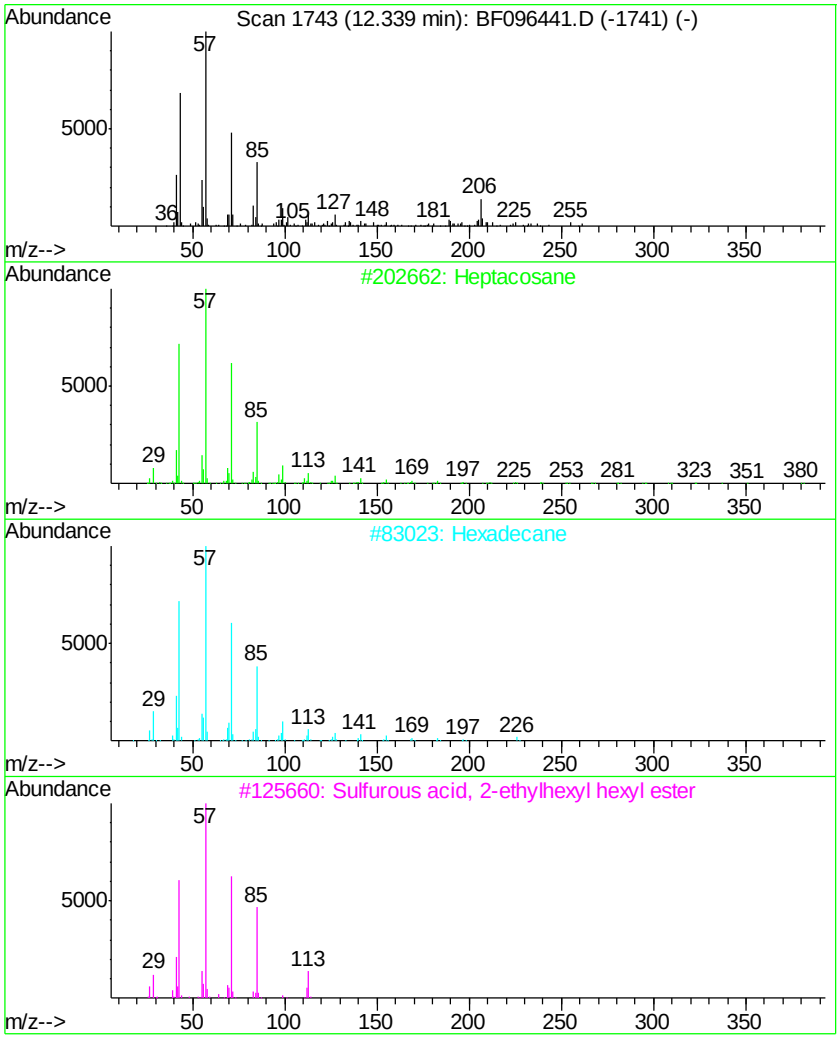
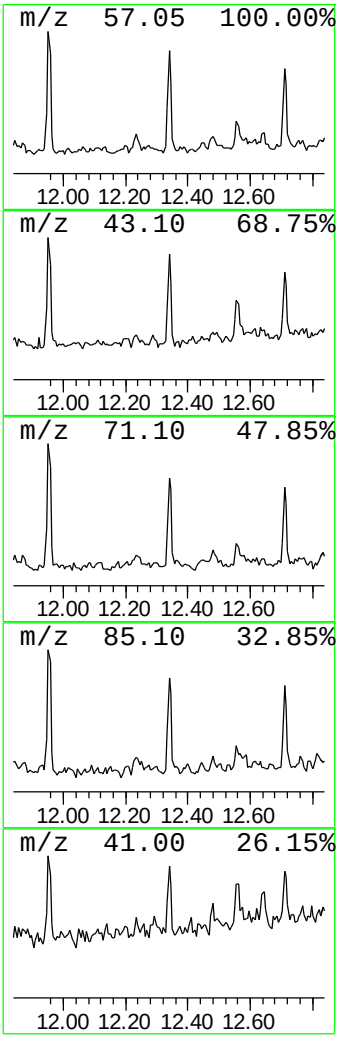
Peak Number 18 Heptacosane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.34 | 3.30 ng | 113060 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 68 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 3 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 59 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 52 |
| 5 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 52 |



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Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

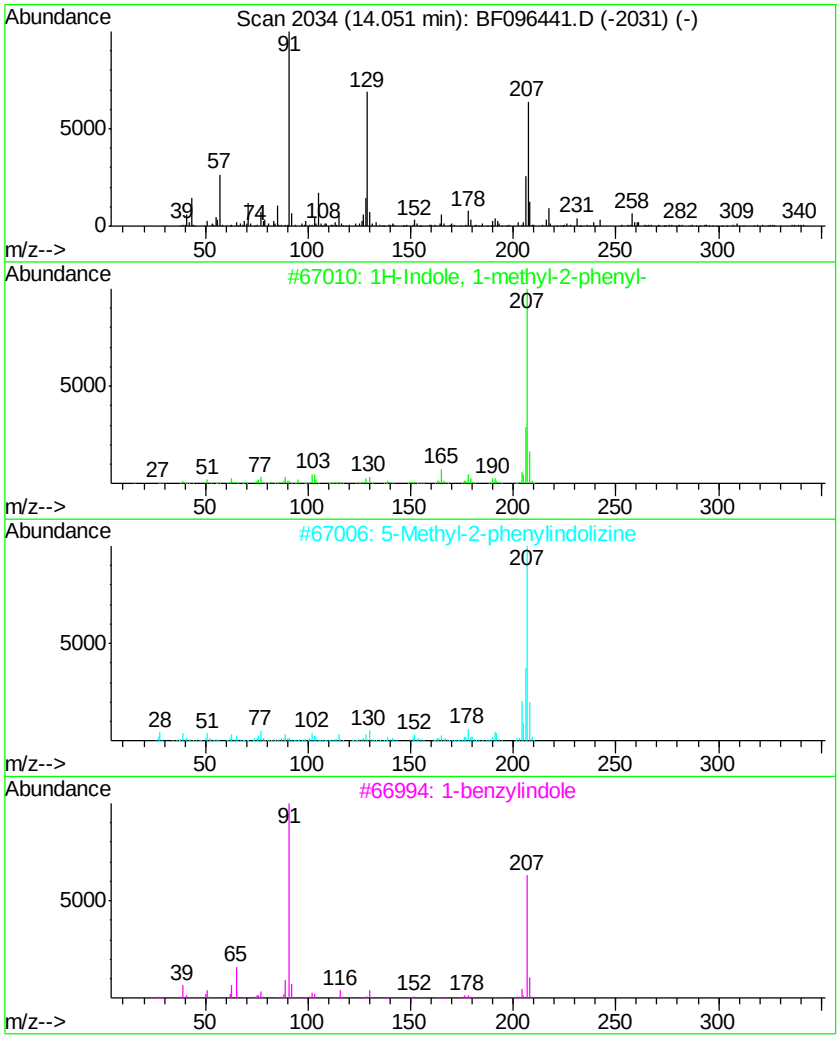
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

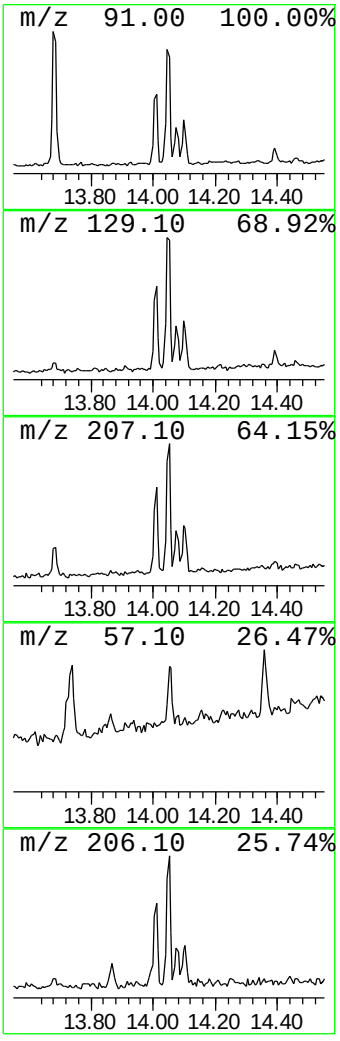
**********

Peak Number 19 unknown14.05 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.05 | 3.46 ng | 195096 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 38 |
| 2 | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 30 |
| 3 | 1-benzylindole | 207 | C15H13N | 1000334-31-3 | 27 |
| 4 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 27 |
| 5 | (2,3-Diphenylcyclopropyl)methyl ... | 332 | C22H20OS | 131758-71-9 | 25 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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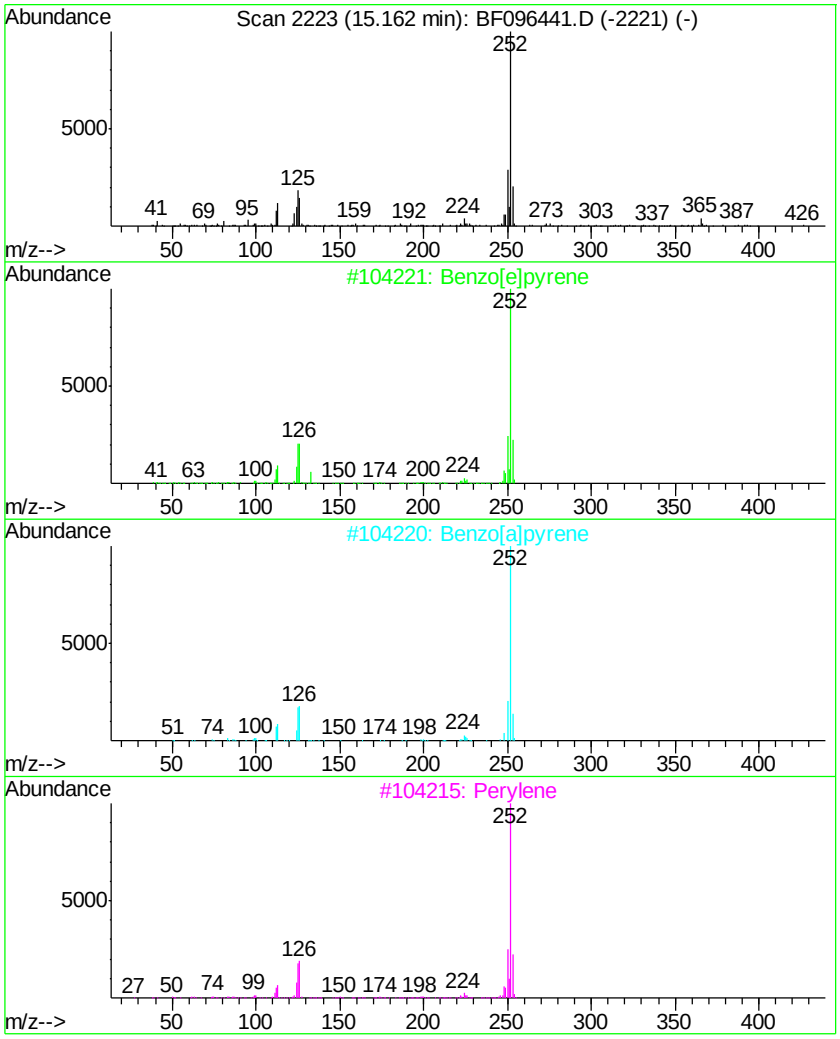
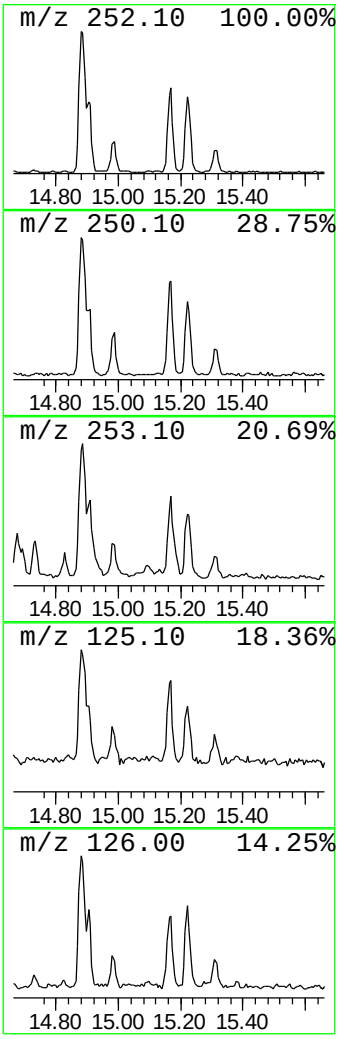
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.16 | 19.17 ng | 306326 | Perylene-d12 | 15.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 86 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 76 |
| 4 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 76 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 74 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070317\
Data File : BF096441.D
Acq On : 3 Jul 2017 15:14
Operator : SJ/MA
Sample : I3930-08 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** B3-0-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.89 | 5.0 | ng | 188595 | 1 | 6.72 | 746604 | 20.0 |
| Benzene, 1,3-dime... | 5.56 | 3.0 | ng | 113923 | 1 | 6.72 | 746604 | 20.0 |
| unknown6.49 | 6.49 | 28.4 | ng | 1062030 | 1 | 6.72 | 746604 | 20.0 |
| Undecane | 7.33 | 3.0 | ng | 112328 | 1 | 6.72 | 746604 | 20.0 |
| Tetradecane | 9.17 | 4.2 | ng | 208359 | 3 | 9.76 | 988033 | 20.0 |
| Naphthalene, 1,6-... | 9.34 | 3.0 | ng | 150628 | 3 | 9.76 | 988033 | 20.0 |
| Hexadecane | 9.70 | 3.2 | ng | 158601 | 3 | 9.76 | 988033 | 20.0 |
| Tridecane | 10.67 | 6.7 | ng | 228531 | 4 | 11.23 | 685696 | 20.0 |
| Decane, 3,6-dimet... | 10.69 | 5.2 | ng | 178327 | 4 | 11.23 | 685696 | 20.0 |
| Anthracene, 9-met... | 11.77 | 6.3 | ng | 216023 | 4 | 11.23 | 685696 | 20.0 |
| 1H-Cyclopropa[l]p... | 11.84 | 3.4 | ng | 117874 | 4 | 11.23 | 685696 | 20.0 |
| Heptadecane | 11.95 | 4.1 | ng | 140068 | 4 | 11.23 | 685696 | 20.0 |
| Phenanthrene, 2,5... | 12.29 | 3.1 | ng | 106176 | 4 | 11.23 | 685696 | 20.0 |
| Heptacosane | 12.34 | 3.3 | ng | 113060 | 4 | 11.23 | 685696 | 20.0 |
| unknown14.05 | 14.05 | 3.5 | ng | 195096 | 5 | 13.87 | 1128480 | 20.0 |
| Benzo[e]pyrene | 15.16 | 19.2 | ng | 306326 | 6 | 15.29 | 319620 | 20.0 |