LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

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-BF011415.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 | 1.452 | 31 | 32 | 39 | rBV | 29849 | 61415 | 5.19% | 0.672% |
| 2 | 4.104 | 262 | 264 | 272 | rBV | 18520 | 42898 | 3.62% | 0.469% |
| 3 | 5.041 | 342 | 346 | 360 | rVB | 181090 | 354577 | 29.94% | 3.879% |
| 4 | 7.373 | 547 | 550 | 555 | rBV | 103672 | 198665 | 16.78% | 2.173% |
| 5 | 7.465 | 555 | 558 | 565 | rVB | 414006 | 759685 | 64.15% | 8.311% |
| 6 | 7.979 | 599 | 603 | 611 | rBV | 112067 | 181631 | 15.34% | 1.987% |
| 7 | 8.299 | 627 | 631 | 634 | rBV | 480801 | 746646 | 63.05% | 8.168% |
| 8 | 9.270 | 712 | 716 | 718 | rBV | 397604 | 595375 | 50.28% | 6.513% |
| 9 | 9.316 | 718 | 720 | 725 | rVB | 45031 | 72799 | 6.15% | 0.796% |
| 10 | 10.882 | 854 | 857 | 861 | rBV | 178015 | 255581 | 21.58% | 2.796% |
| 11 | 13.534 | 1085 | 1089 | 1092 | rBV | 783405 | 1179740 | 99.62% | 12.906% |
| 12 | 15.008 | 1215 | 1218 | 1222 | rVB | 165987 | 282171 | 23.83% | 3.087% |
| 13 | 16.551 | 1350 | 1353 | 1357 | rBV | 45992 | 55326 | 4.67% | 0.605% |
| 14 | 16.631 | 1357 | 1360 | 1361 | rBV | 11383 | 15795 | 1.33% | 0.173% |
| 15 | 16.677 | 1361 | 1364 | 1367 | rBV | 496204 | 716615 | 60.51% | 7.839% |
| 16 | 16.825 | 1375 | 1377 | 1381 | rBV3 | 9790 | 12802 | 1.08% | 0.140% |
| 17 | 16.905 | 1381 | 1384 | 1387 | rBV | 143904 | 187135 | 15.80% | 2.047% |
| 18 | 17.134 | 1401 | 1404 | 1407 | rBV | 40427 | 60674 | 5.12% | 0.664% |
| 19 | 17.774 | 1457 | 1460 | 1463 | rBV | 236395 | 306113 | 25.85% | 3.349% |
| 20 | 18.757 | 1543 | 1546 | 1549 | rBV | 83413 | 112375 | 9.49% | 1.229% |
| 21 | 19.386 | 1598 | 1601 | 1604 | rVB | 62490 | 63239 | 5.34% | 0.692% |
| 22 | 19.466 | 1605 | 1608 | 1611 | rVB | 74192 | 106474 | 8.99% | 1.165% |
| 23 | 19.900 | 1643 | 1646 | 1649 | rBV | 63595 | 68552 | 5.79% | 0.750% |
| 24 | 20.003 | 1653 | 1655 | 1658 | rVV | 1021126 | 1184224 | 100.00% | 12.955% |
| 25 | 20.792 | 1720 | 1724 | 1726 | rBV | 45312 | 50219 | 4.24% | 0.549% |
| 26 | 20.849 | 1726 | 1729 | 1731 | rVV | 13984 | 19182 | 1.62% | 0.210% |
| 27 | 20.929 | 1734 | 1736 | 1739 | rVB | 7100 | 12582 | 1.06% | 0.138% |
| 28 | 21.146 | 1753 | 1755 | 1757 | rBV | 21768 | 29086 | 2.46% | 0.318% |
| 29 | 21.180 | 1757 | 1758 | 1760 | rVB | 51745 | 50259 | 4.24% | 0.550% |
| 30 | 21.272 | 1761 | 1766 | 1769 | rBV | 322722 | 397880 | 33.60% | 4.353% |
| 31 | 21.477 | 1781 | 1784 | 1786 | rBV | 110338 | 156834 | 13.24% | 1.716% |
| 32 | 21.660 | 1798 | 1800 | 1804 | rVB2 | 19593 | 24377 | 2.06% | 0.267% |
| 33 | 22.037 | 1830 | 1833 | 1838 | rBV | 19301 | 33473 | 2.83% | 0.366% |
| 34 | 22.255 | 1849 | 1852 | 1855 | rBV5 | 3845 | 11852 | 1.00% | 0.130% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

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-BF011415.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 22.403 | 1863 | 1865 | 1868 | rVB2 | 16953 | 22204 | 1.87% | 0.243% |
| 36 | 22.472 | 1868 | 1871 | 1873 | rBV | 14771 | 25241 | 2.13% | 0.276% |
| 37 | 22.769 | 1894 | 1897 | 1900 | rBV2 | 11420 | 23523 | 1.99% | 0.257% |
| 38 | 22.906 | 1906 | 1909 | 1912 | rBV | 257001 | 307995 | 26.01% | 3.369% |
| 39 | 23.112 | 1925 | 1927 | 1931 | rBV5 | 12159 | 20490 | 1.73% | 0.224% |
| 40 | 23.192 | 1931 | 1934 | 1936 | rVV | 125075 | 188317 | 15.90% | 2.060% |
| 41 | 23.466 | 1955 | 1958 | 1959 | rBV2 | 15610 | 21821 | 1.84% | 0.239% |
| 42 | 23.500 | 1959 | 1961 | 1963 | rVB3 | 8837 | 13402 | 1.13% | 0.147% |
| 43 | 24.186 | 2017 | 2021 | 2022 | rBV4 | 7194 | 15123 | 1.28% | 0.165% |
| 44 | 24.449 | 2042 | 2044 | 2048 | rVB5 | 15045 | 25939 | 2.19% | 0.284% |
| 45 | 24.803 | 2074 | 2075 | 2078 | rBV3 | 8516 | 18161 | 1.53% | 0.199% |
| 46 | 25.089 | 2096 | 2100 | 2104 | rBV2 | 19843 | 52664 | 4.45% | 0.576% |

Sum of corrected areas: 9141131

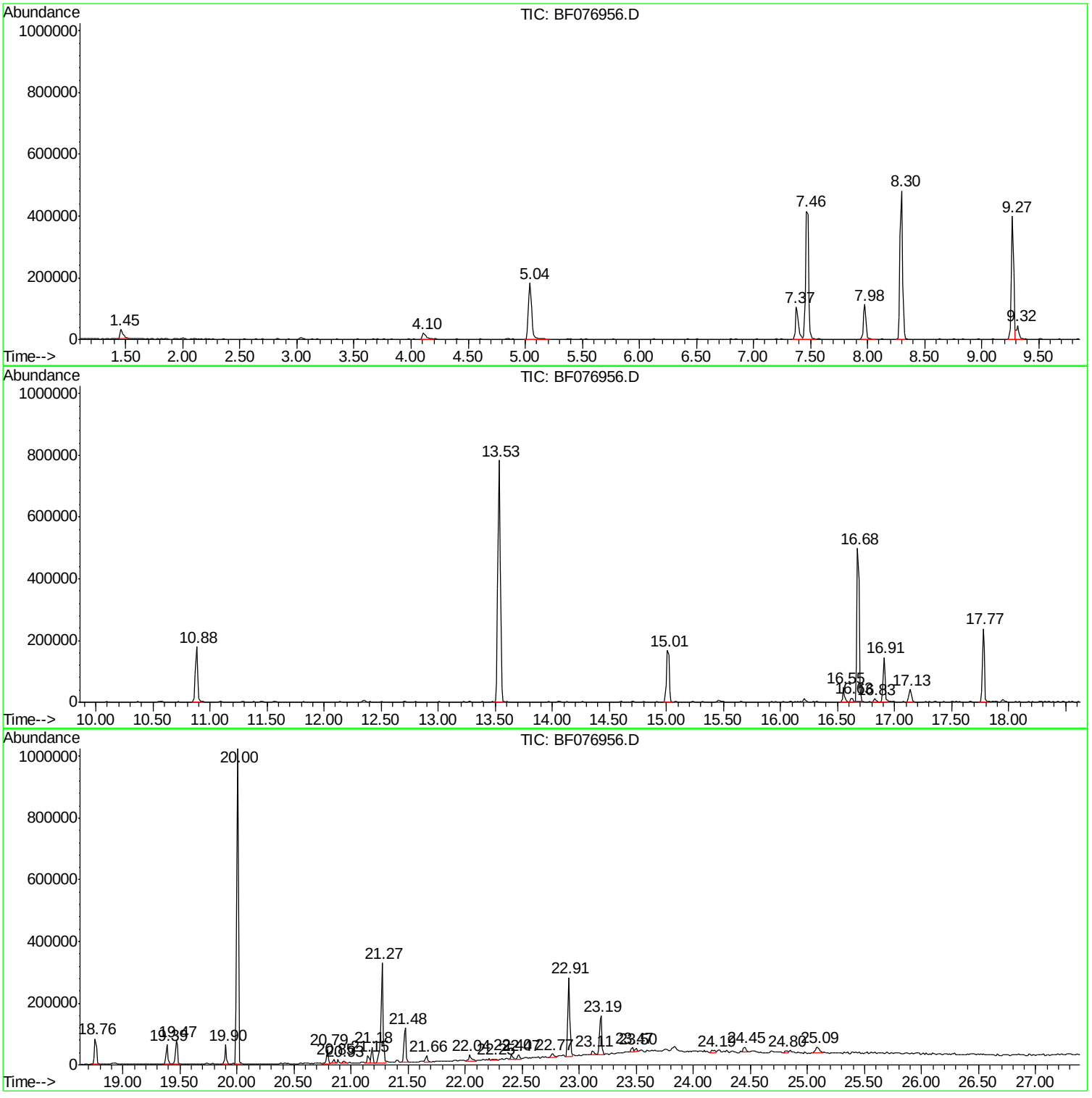
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

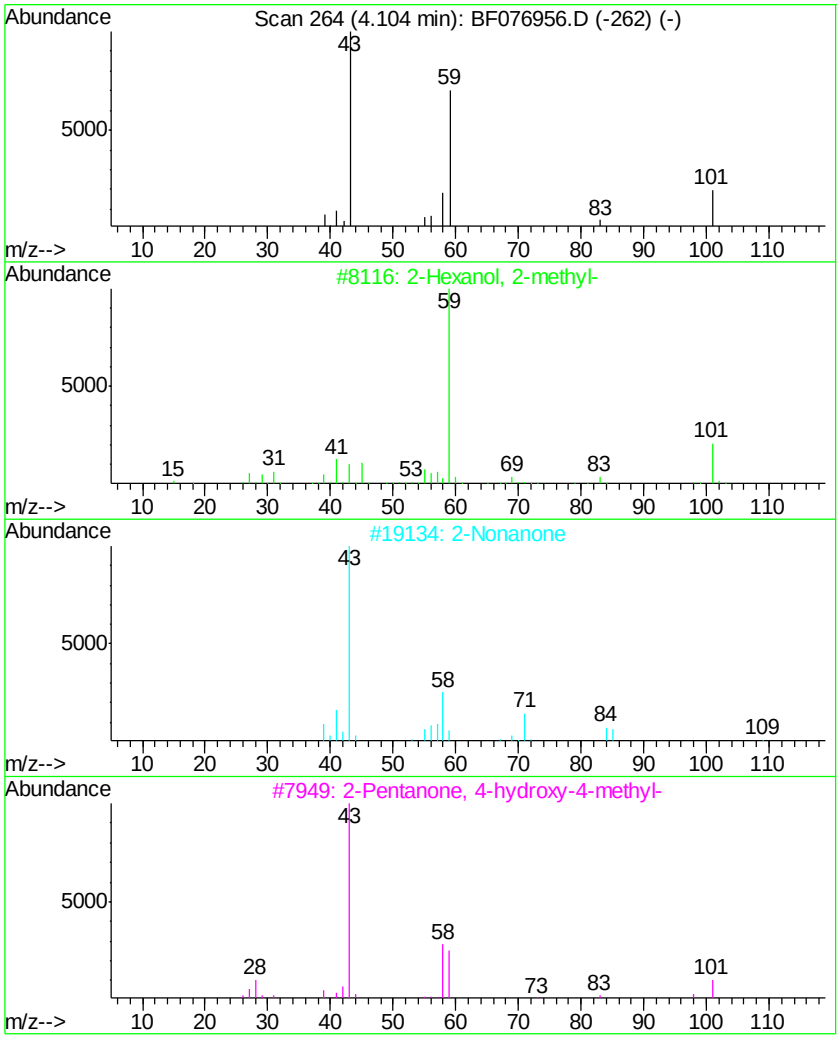
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

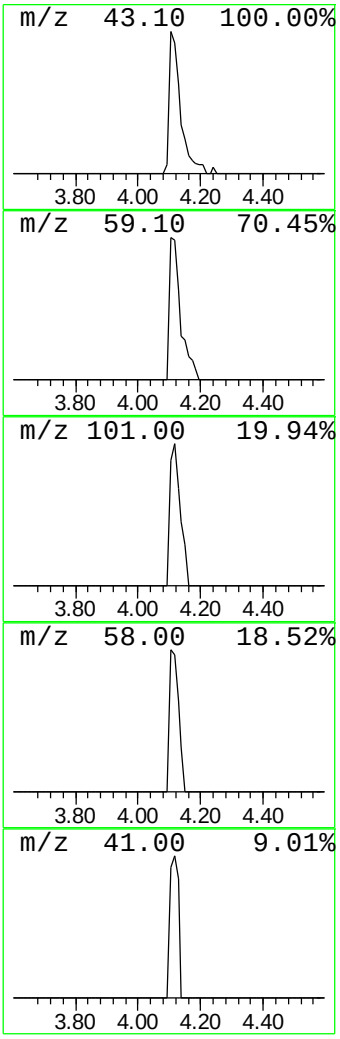
**********

Peak Number 2 unknown4.10 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.10 | 4.72 ng | 42898 | 1,4-Dichlorobenzene-d4 | 7.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 36 |
| 2 | 2-Nonanone | 142 | C9H18O | 000821-55-6 | 9 |
| 3 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 9 |
| 4 | Guanidine | 59 | CH5N3 | 000113-00-8 | 5 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 5 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

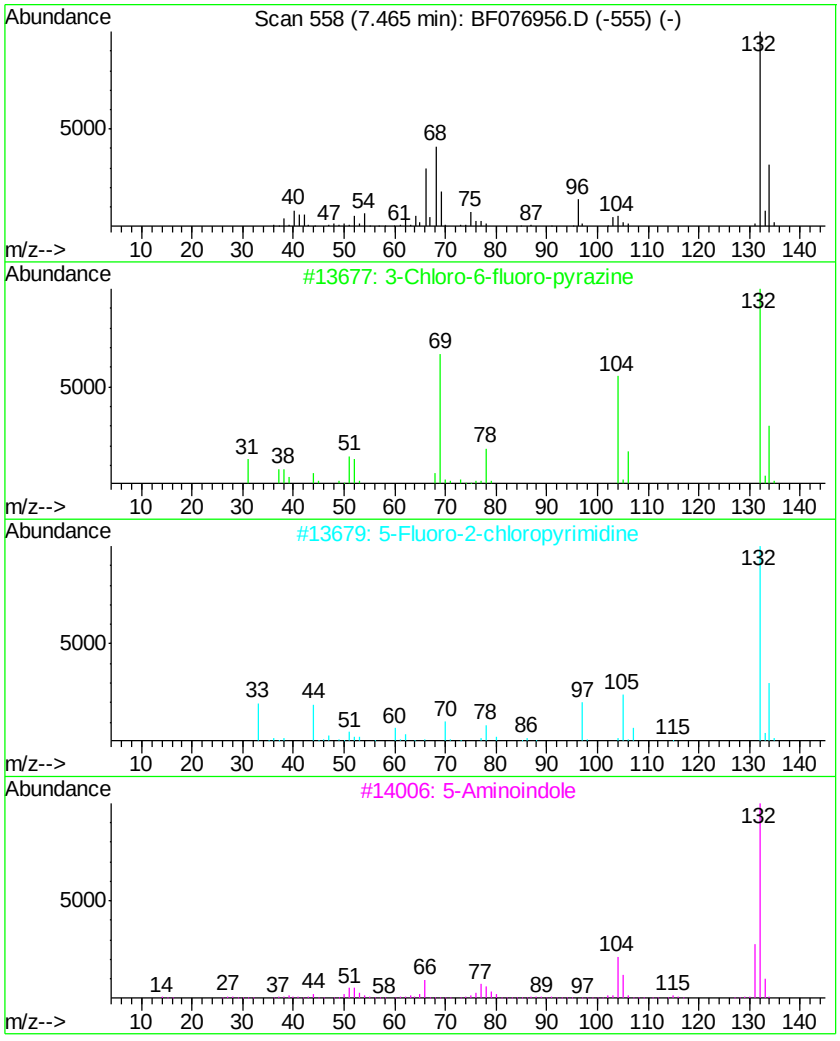
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

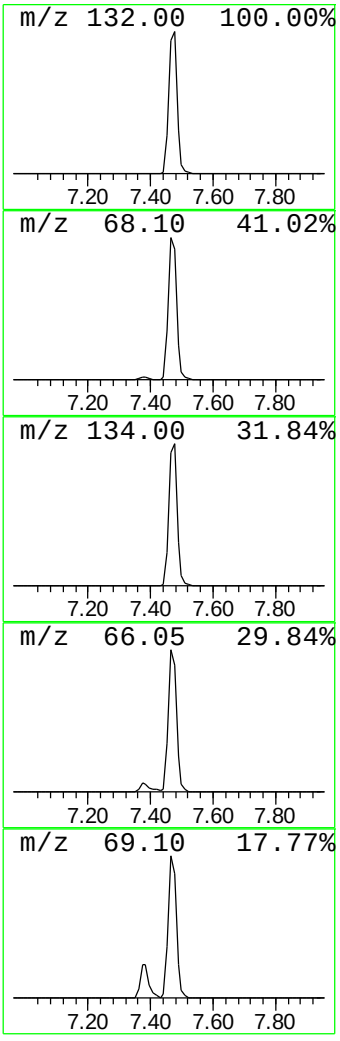
**********

Peak Number 3 unknown7.46 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.46 | 83.65 ng | 759685 | 1,4-Dichlorobenzene-d4 | 7.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 5 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

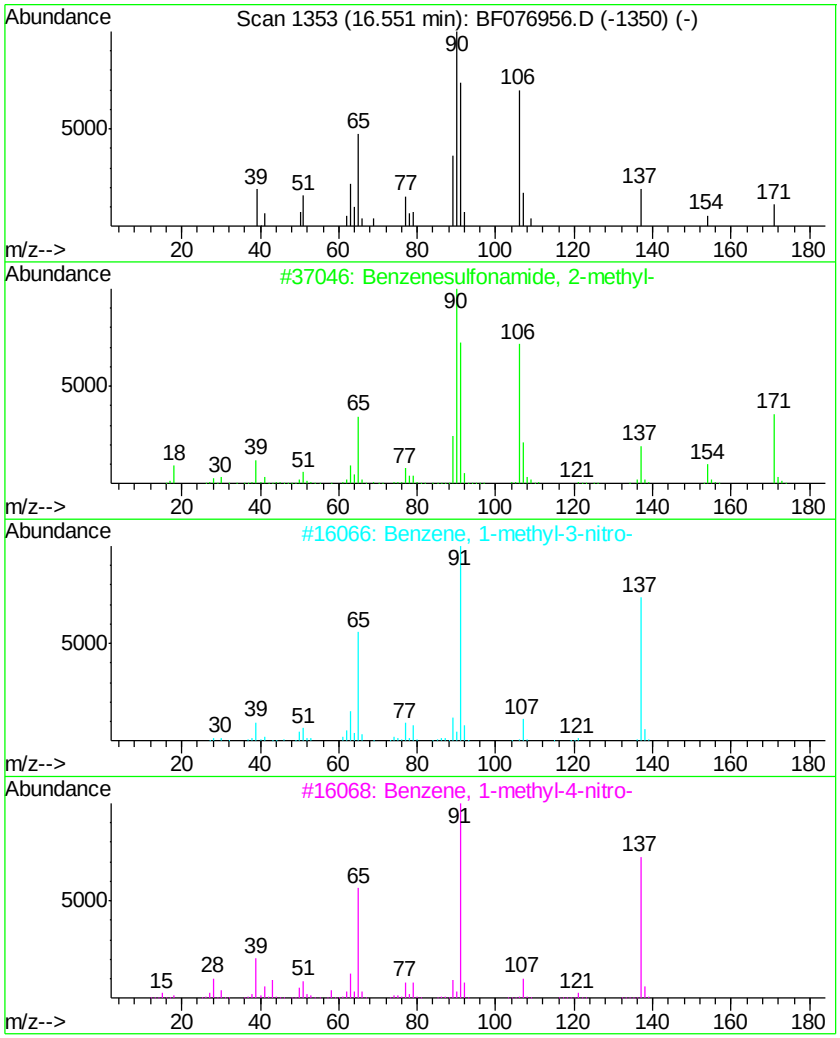
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

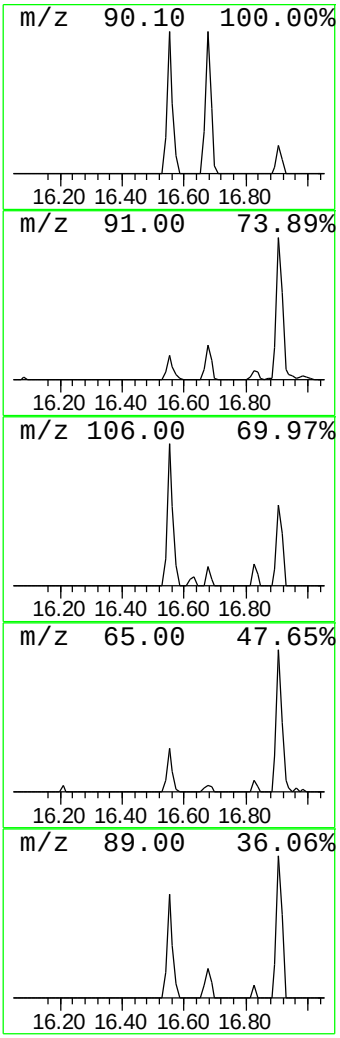
**********

Peak Number 5 Benzenesulfonamide, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.55 | 3.61 ng | 55326 | Phenanthrene-d10 | 17.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 2-methyl- | 171 | C7H9NO2S | 000088-19-7 | 91 |
| 2 | Benzene, 1-methyl-3-nitro- | 137 | C7H7NO2 | 000099-08-1 | 22 |
| 3 | Benzene, 1-methyl-4-nitro- | 137 | C7H7NO2 | 000099-99-0 | 22 |
| 4 | 2,4-Octadiyne | 106 | C8H10 | 002809-71-4 | 22 |
| 5 | Cycloheptatrienylium, iodide | 218 | C7H7I | 001316-80-9 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

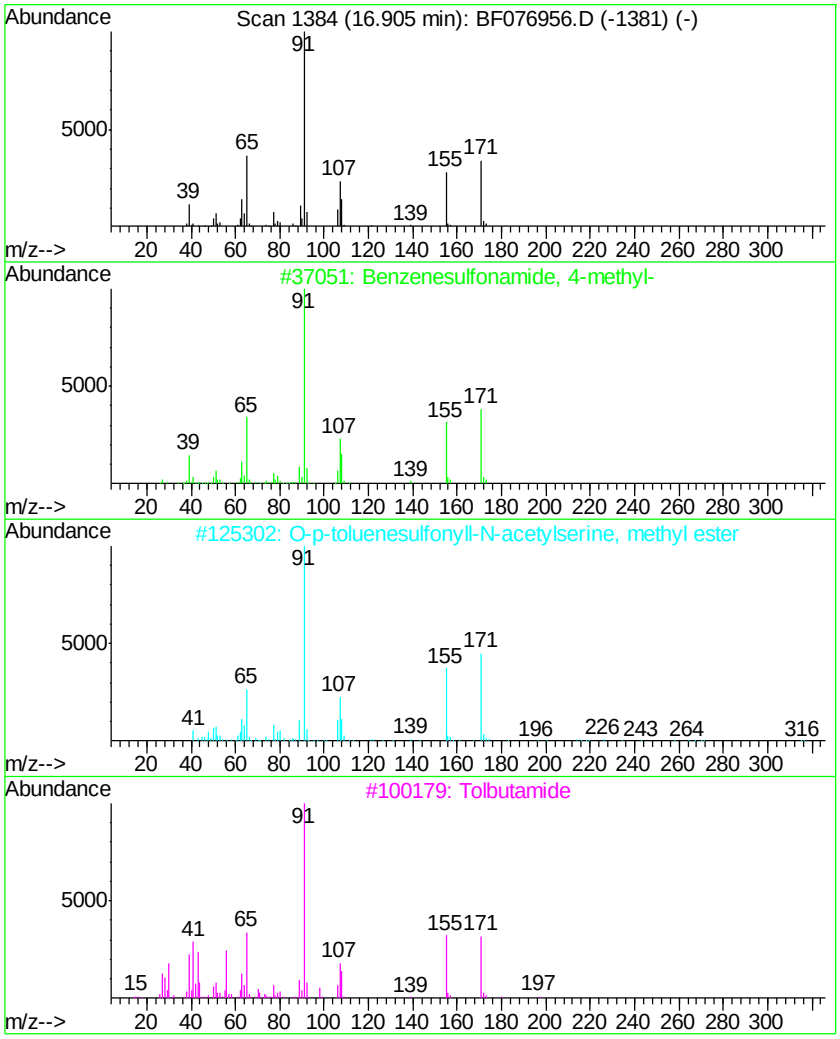
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

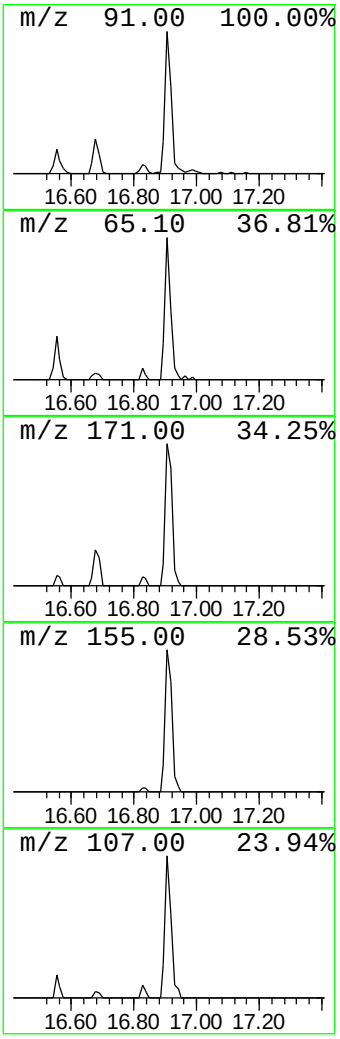
**********

Peak Number 6 Benzenesulfonamide, 4-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.91 | 12.23 ng | 187135 | Phenanthrene-d10 | 17.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 4-methyl- | 171 | C7H9NO2S | 000070-55-3 | 96 |
| 2 | O-p-toluenesulfonyll-N-acetylser... | 315 | C13H17NO6S | 1000126-44-8 | 90 |
| 3 | Tolbutamide | 270 | C12H18N2O3S | 000064-77-7 | 87 |
| 4 | Thiosulfuric acid, S-[2-[3-(4-me... | 381 | C12H19N3O5S3 | 1000255-60-3 | 86 |
| 5 | N-p-toluenesulfonyl-l-threonine,... | 363 | C18H21NO5S | 1000130-34-4 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

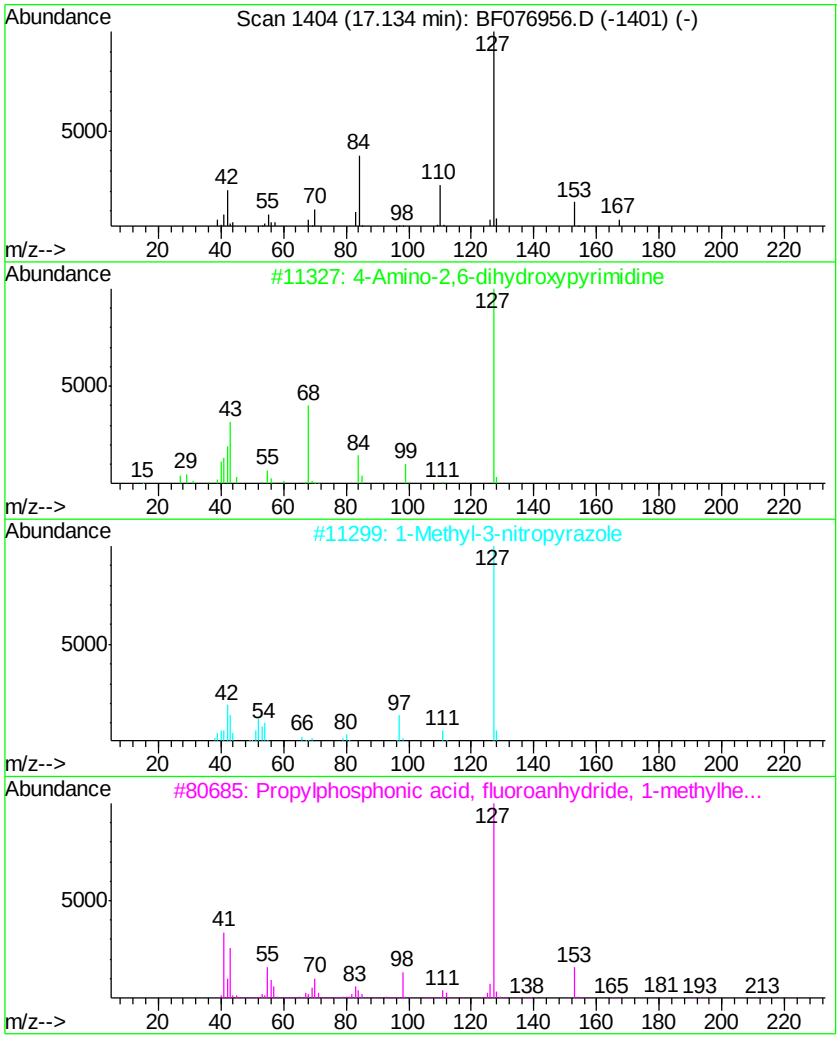
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

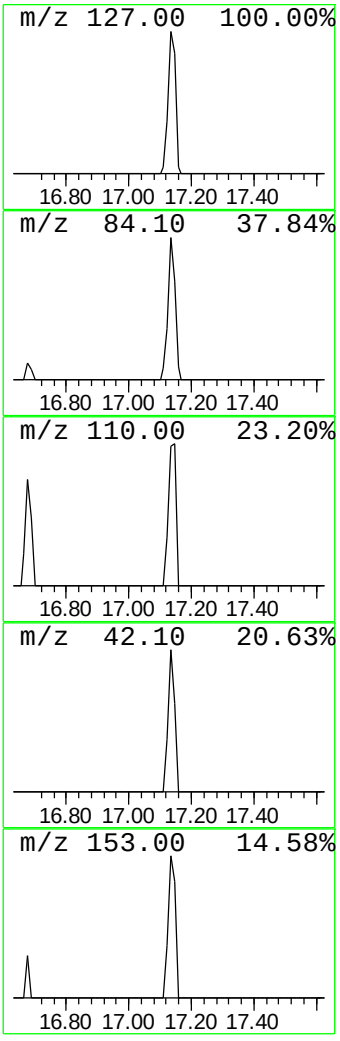
**********

Peak Number 7 unknown17.13 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.13 | 3.96 ng | 60674 | Phenanthrene-d10 | 17.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Amino-2,6-dihydroxypyrimidine | 127 | C4H5N3O2 | 000873-83-6 | 47 |
| 2 | 1-Methyl-3-nitropyrazole | 127 | C4H5N3O2 | 054210-32-1 | 46 |
| 3 | Propylphosphonic acid, fluoroanh... | 238 | C11H24FO2P | 1000273-50-7 | 42 |
| 4 | 6-Azathymine | 127 | C4H5N3O2 | 000932-53-6 | 40 |
| 5 | 2,5-Pyrrolidinedione, 1-ethyl- | 127 | C6H9NO2 | 002314-78-5 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

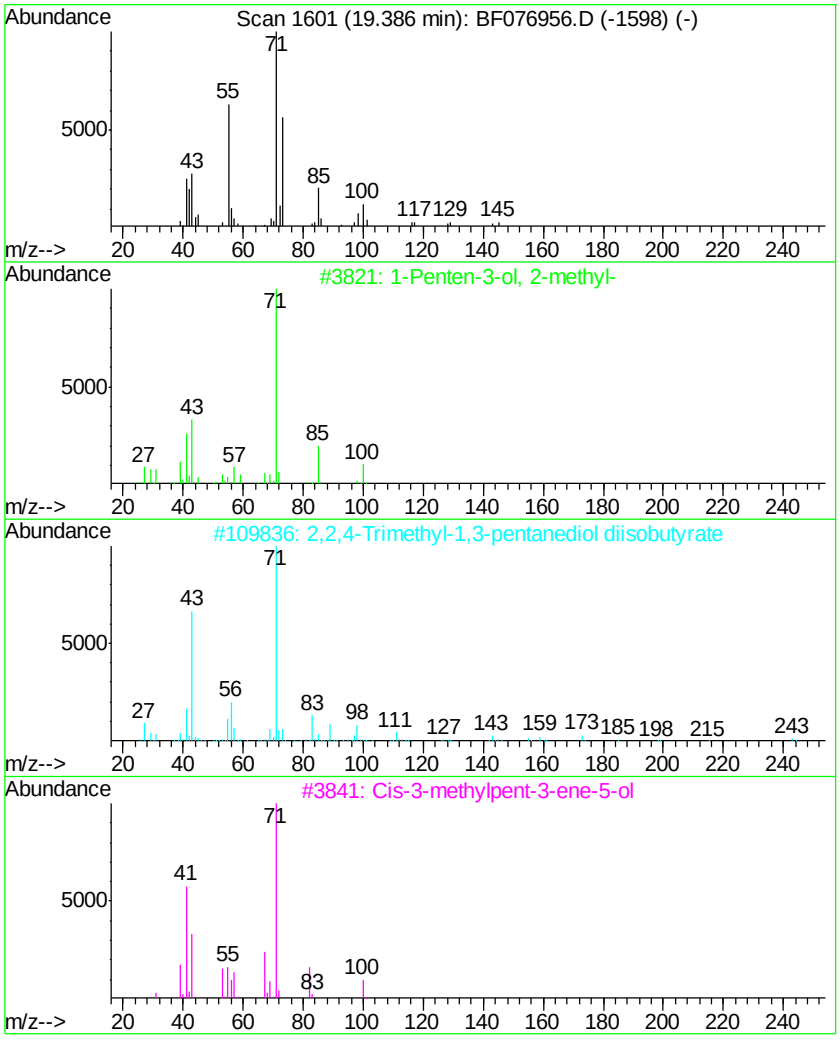
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

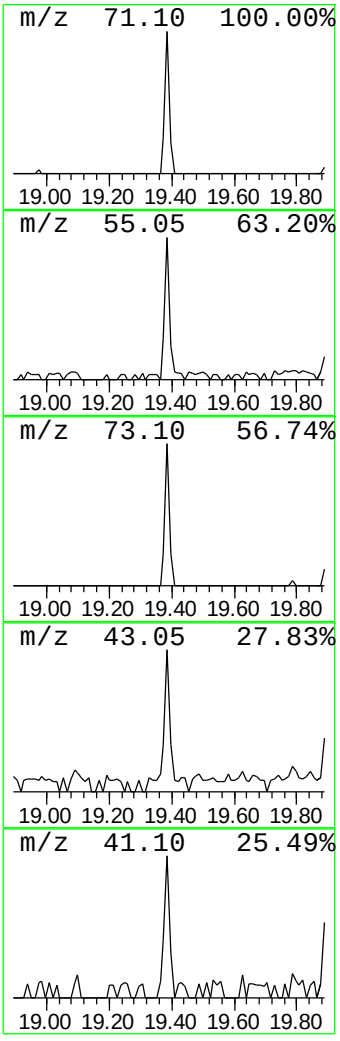
**********

Peak Number 9 1-Penten-3-ol, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.39 | 4.13 ng | 63239 | Phenanthrene-d10 | 17.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Penten-3-ol, 2-methyl- | 100 | C6H12O | 002088-07-5 | 59 |
| 2 | 2,2,4-Trimethyl-1,3-pentanediol ... | 286 | C16H30O4 | 006846-50-0 | 43 |
| 3 | Cis-3-methylpent-3-ene-5-ol | 100 | C6H12O | 030804-75-2 | 37 |
| 4 | Acetaldehyde, propylhydrazone | 100 | C5H12N2 | 007422-88-0 | 36 |
| 5 | (+-)-3-Methyl-1-penten-3-ol | 100 | C6H12O | 086361-10-6 | 36 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

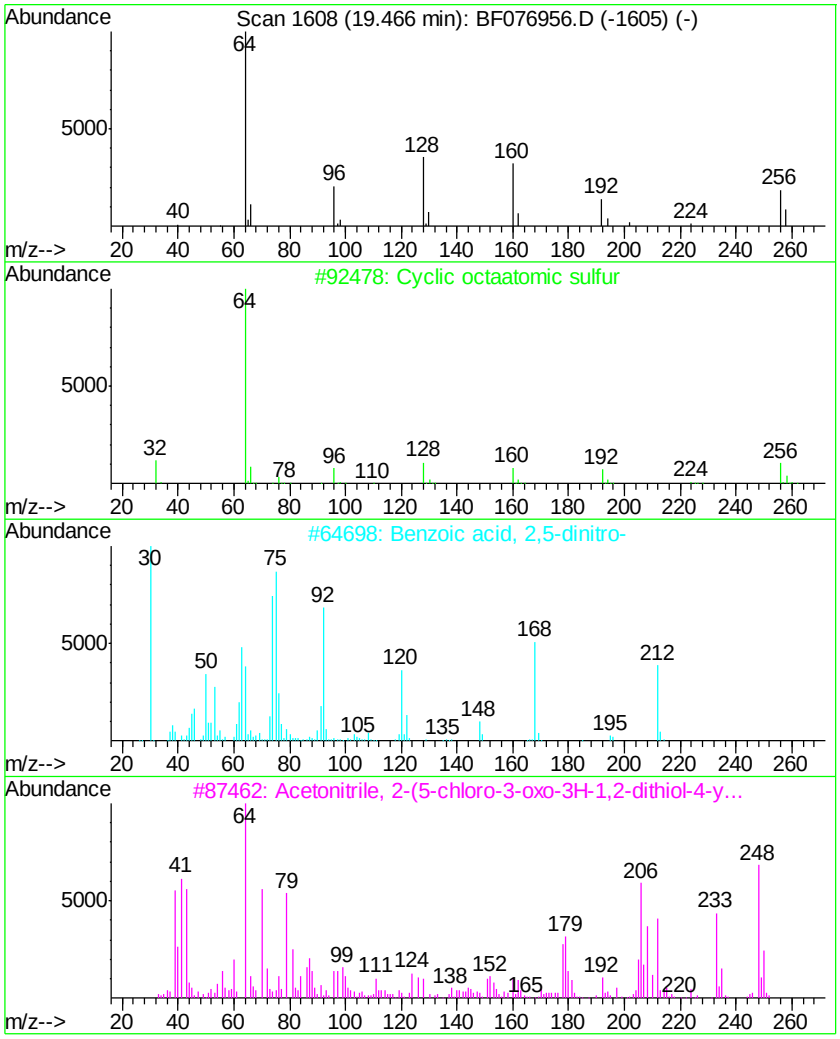
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

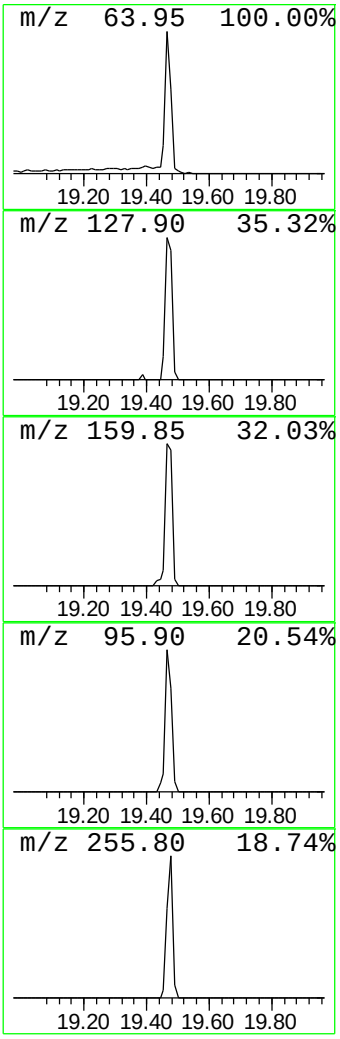
**********

Peak Number 10 Cyclic octaatomic sulfur Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.47 | 6.96 ng | 106474 | Phenanthrene-d10 | 17.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclic octaatomic sulfur | 256 | S8 | 010544-50-0 | 90 |
| 2 | Benzoic acid, 2,5-dinitro- | 212 | C7H4N2O6 | 000610-28-6 | 59 |
| 3 | Acetonitrile, 2-(5-chloro-3-oxo-... | 248 | C8H9ClN2OS2 | 1000269-94-4 | 9 |
| 4 | 2,3-Diazabicyclo[3.2.0]hept-2-en... | 176 | C7H7F3N2 | 1000258-92-2 | 9 |
| 5 | 7-Amino-7H-S-triazolo[5,1-c]-S-t... | 156 | C3H4N6S | 013728-28-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

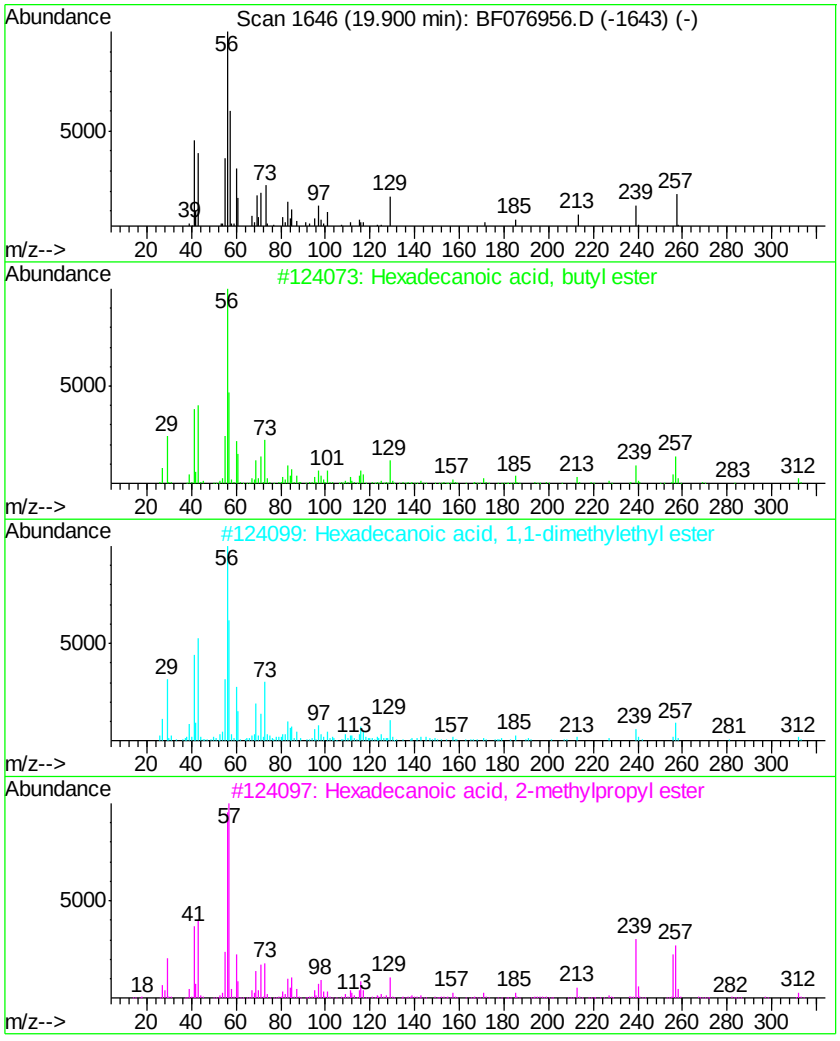
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

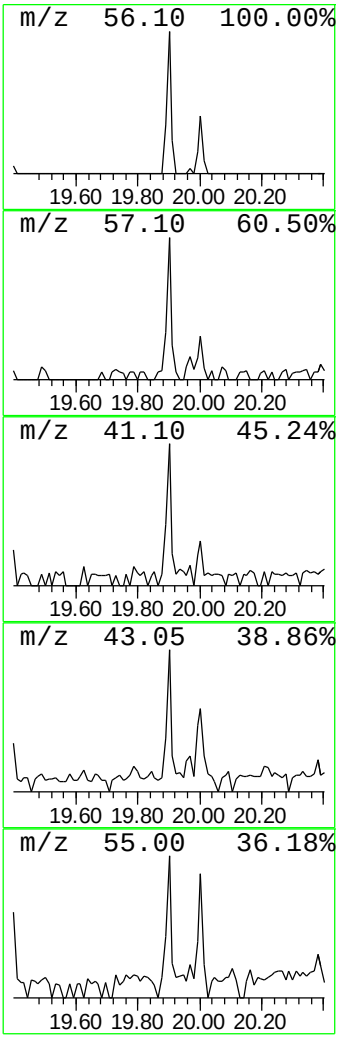
**********

Peak Number 11 Hexadecanoic acid, butyl ester Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.90 | 3.45 ng | 68552 | Chrysene-d12 | 21.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 91 |
| 2 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 80 |
| 3 | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 45 |
| 4 | Pentadecane, 8-methylene- | 224 | C16H32 | 055668-09-2 | 37 |
| 5 | 1-Pentene, 2,4-dimethyl- | 98 | C7H14 | 002213-32-3 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

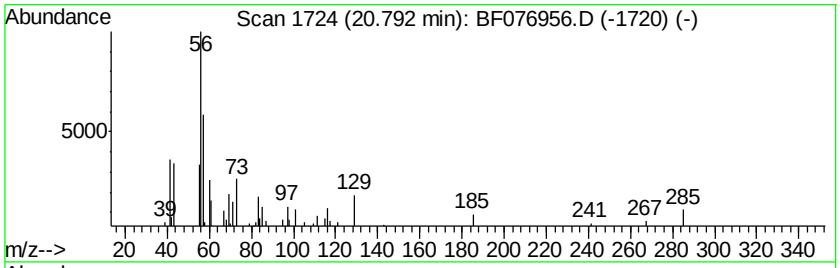
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

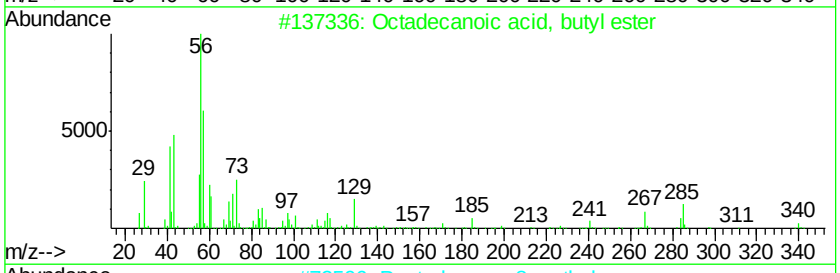
**********

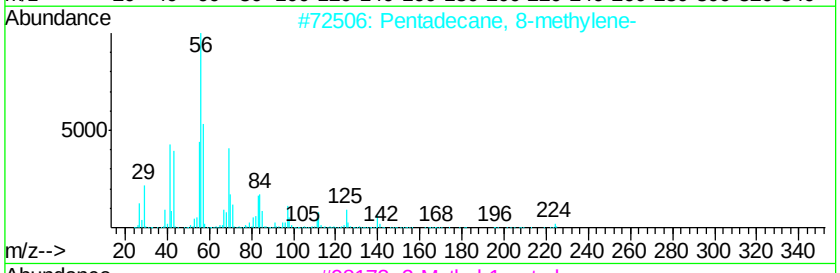
Peak Number 12 Octadecanoic acid, butyl ester Concentration Rank 16

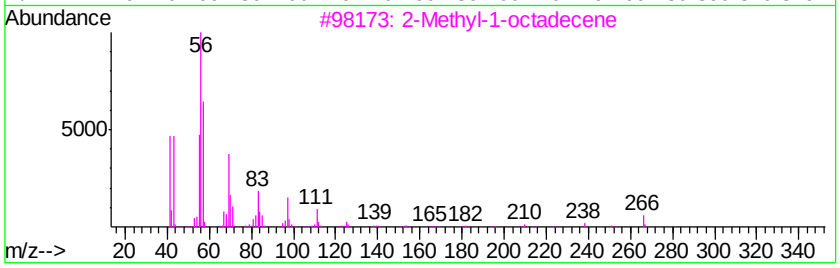
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.79 | 2.52 ng | 50219 | Chrysene-d12 | 21.27 |

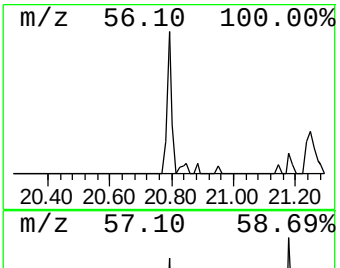
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid, butyl ester | 340 | C22H44O2 | 000123-95-5 | 91 |
| 2 | Pentadecane, 8-methylene- | 224 | C16H32 | 055668-09-2 | 38 |
| 3 | 2-Methyl-1-octadecene | 266 | C19H38 | 061868-20-0 | 38 |
| 4 | 2-Methylhexadec-1-ene | 238 | C17H34 | 061868-19-7 | 32 |
| 5 | 2-Methyl-1-tetradecene | 210 | C15H30 | 052254-38-3 | 32 |

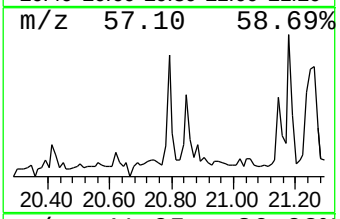


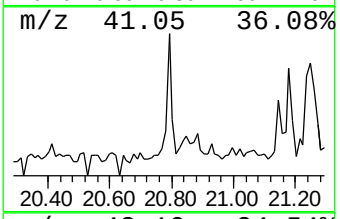



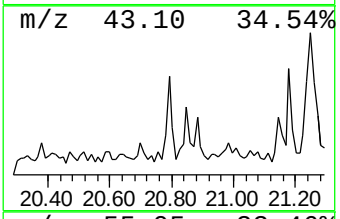



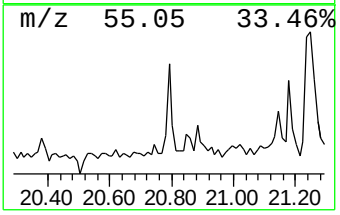



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

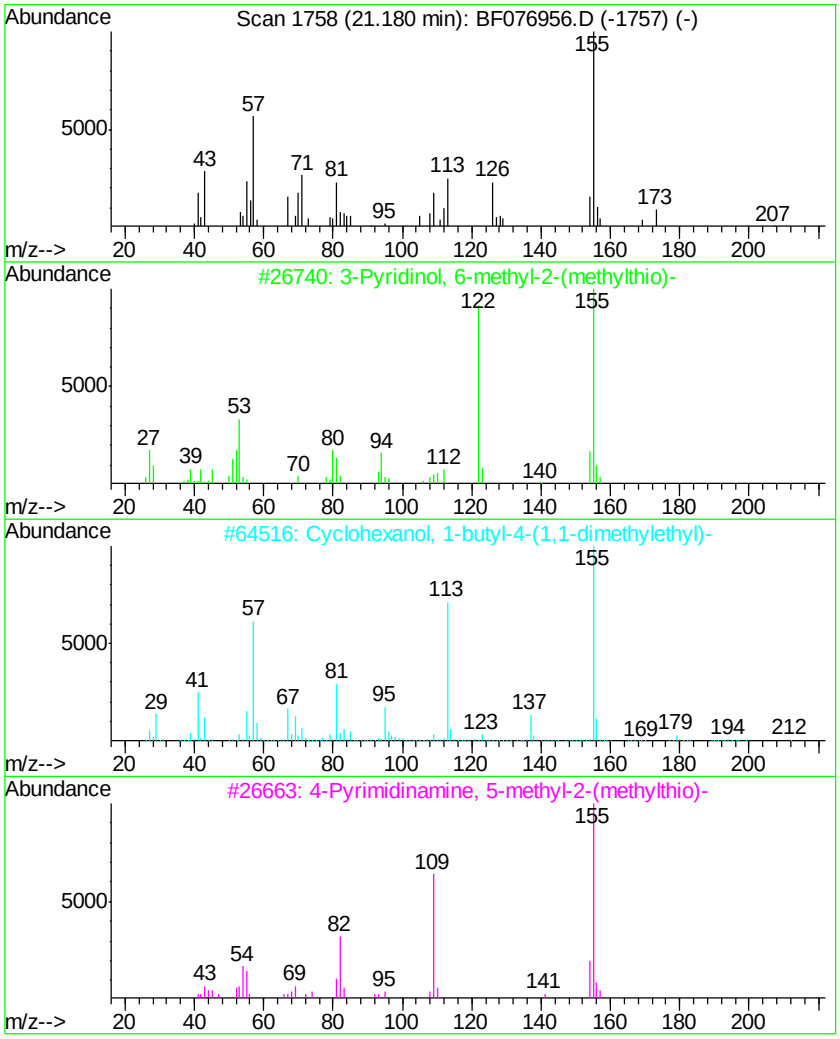
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

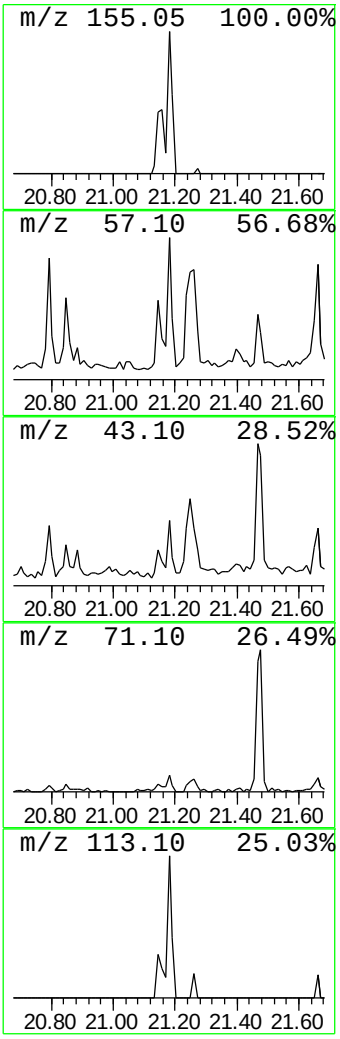
**********

Peak Number 13 unknown21.18 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.18 | 2.53 ng | 50259 | Chrysene-d12 | 21.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Pyridinol, 6-methyl-2-(methylt... | 155 | C7H9NOS | 023003-25-0 | 43 |
| 2 | Cyclohexanol, 1-butyl-4-(1,1-dim... | 212 | C14H28O | 053188-79-7 | 43 |
| 3 | 4-Pyrimidinamine, 5-methyl-2-(me... | 155 | C6H9N3S | 054308-64-4 | 38 |
| 4 | Benzaldehyde, 4-chloro-, oxime, ... | 155 | C7H6ClNO | 003717-23-5 | 38 |
| 5 | Hexadecanoic acid, 9,10,16-trihy... | 304 | C16H32O5 | 006949-98-0 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

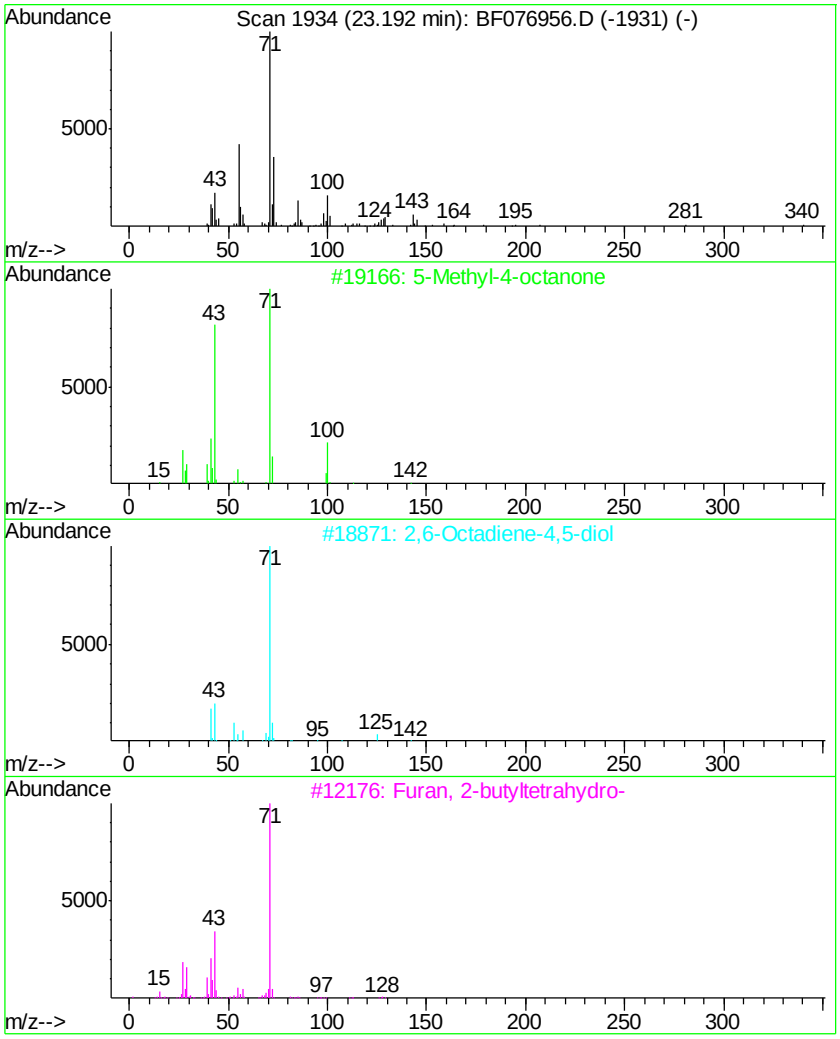
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

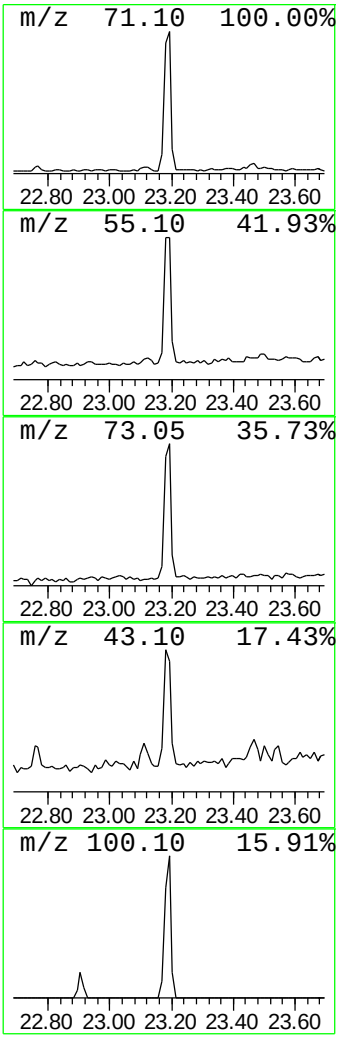
**********

Peak Number 15 unknown23.19 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.19 | 12.23 ng | 188317 | Perylene-d12 | 22.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Methyl-4-octanone | 142 | C9H18O | 006175-51-5 | 40 |
| 2 | 2,6-Octadiene-4,5-diol | 142 | C8H14O2 | 004486-59-3 | 38 |
| 3 | Furan, 2-butyltetrahydro- | 128 | C8H16O | 001004-29-1 | 37 |
| 4 | 2,2-Dimethylperhydro-1,3-oxazine | 115 | C6H13NO | 073155-29-0 | 36 |
| 5 | Octane, 3,3-dimethyl- | 142 | C10H22 | 004110-44-5 | 33 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

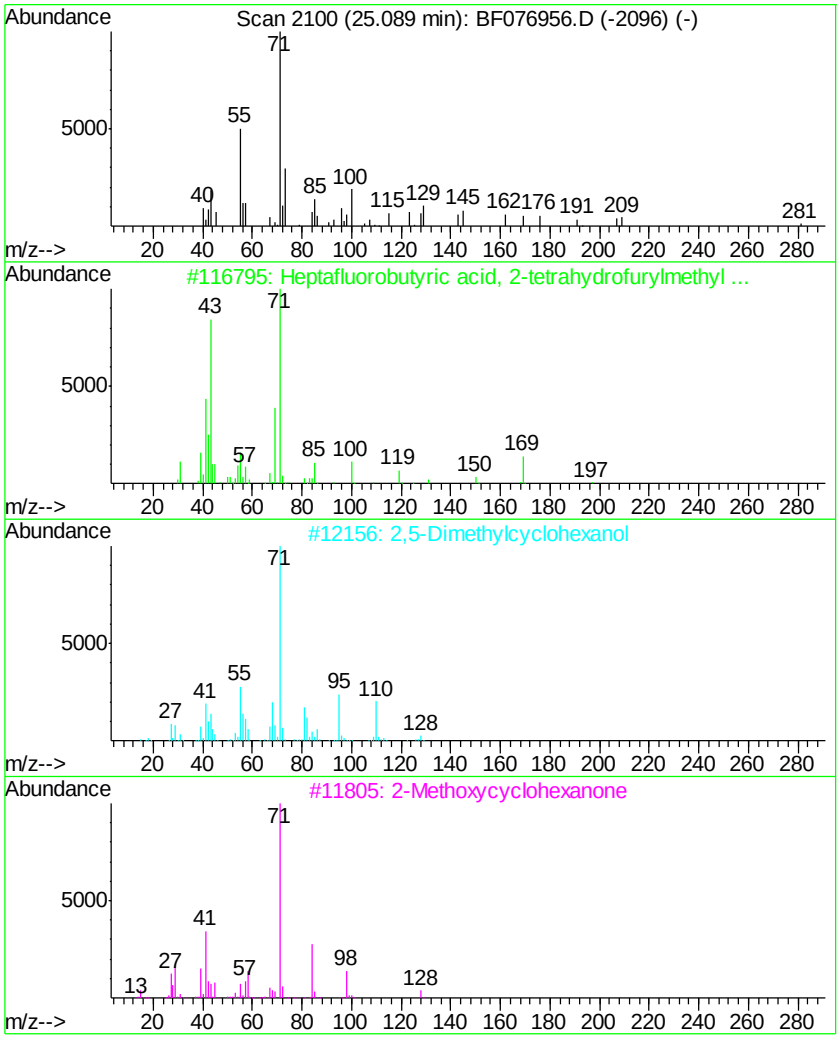
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

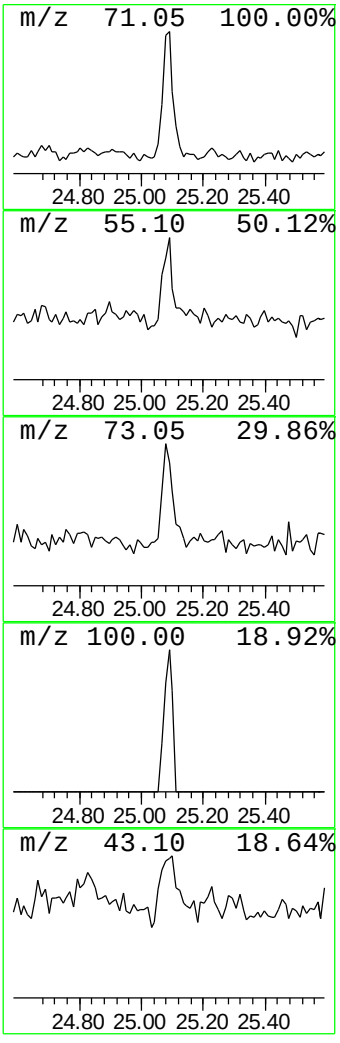
**********

Peak Number 16 Heptafluorobutyric acid, 2-... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.09 | 3.42 ng | 52664 | Perylene-d12 | 22.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutyric acid, 2-tetra... | 298 | C9H9F7O3 | 1000216-78-5 | 50 |
| 2 | 2,5-Dimethylcyclohexanol | 128 | C8H16O | 003809-32-3 | 43 |
| 3 | 2-Methoxycyclohexanone | 128 | C7H12O2 | 007429-44-9 | 43 |
| 4 | 2,2-Dimethylperhydro-1,3-oxazine | 115 | C6H13NO | 073155-29-0 | 40 |
| 5 | Butane, 2,2'-[methylenebis(oxy)]... | 188 | C11H24O2 | 054699-28-4 | 36 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011915\
Data File : BF076956.D
Acq On : 20 Jan 2015 8:36
Operator : IZ / TP
Sample : G1101-02
Misc : W
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PO-004

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF011415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| unknown4.10 | 4.10 | 4.7 | ng | 42898 | 1 | 7.98 | 181631 | 20.0 |
| unknown7.46 | 7.46 | 83.7 | ng | 759685 | 1 | 7.98 | 181631 | 20.0 |
| Benzenesulfonamid... | 16.55 | 3.6 | ng | 55326 | 4 | 17.77 | 306113 | 20.0 |
| Benzenesulfonamid... | 16.91 | 12.2 | ng | 187135 | 4 | 17.77 | 306113 | 20.0 |
| unknown17.13 | 17.13 | 4.0 | ng | 60674 | 4 | 17.77 | 306113 | 20.0 |
| 1-Penten-3-ol, 2-... | 19.39 | 4.1 | ng | 63239 | 4 | 17.77 | 306113 | 20.0 |
| Cyclic octaatomic... | 19.47 | 7.0 | ng | 106474 | 4 | 17.77 | 306113 | 20.0 |
| Hexadecanoic acid... | 19.90 | 3.5 | ng | 68552 | 5 | 21.27 | 397880 | 20.0 |
| Octadecanoic acid... | 20.79 | 2.5 | ng | 50219 | 5 | 21.27 | 397880 | 20.0 |
| unknown21.18 | 21.18 | 2.5 | ng | 50259 | 5 | 21.27 | 397880 | 20.0 |
| unknown23.19 | 23.19 | 12.2 | ng | 188317 | 6 | 22.91 | 307995 | 20.0 |
| Heptafluorobutyri... | 25.09 | 3.4 | ng | 52664 | 6 | 22.91 | 307995 | 20.0 |