LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

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-BF123115.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 | 2.190 | 6 | 9 | 22 | rVB3 | 50093 | 202767 | 2.62% | 0.331% |
| 2 | 3.870 | 150 | 156 | 160 | rBV | 59160 | 85556 | 1.11% | 0.140% |
| 3 | 5.081 | 259 | 262 | 268 | rVB | 804944 | 965021 | 12.47% | 1.577% |
| 4 | 5.504 | 296 | 299 | 301 | rVB | 4797370 | 4339129 | 56.05% | 7.093% |
| 5 | 6.533 | 386 | 389 | 391 | rBV | 3284897 | 3287347 | 42.47% | 5.373% |
| 6 | 6.659 | 397 | 400 | 403 | rBV | 6014852 | 6205080 | 80.16% | 10.143% |
| 7 | 6.887 | 418 | 420 | 423 | rBV | 2145080 | 1806724 | 23.34% | 2.953% |
| 8 | 7.047 | 431 | 434 | 436 | rVB | 6633468 | 5966804 | 77.08% | 9.753% |
| 9 | 7.299 | 452 | 456 | 461 | rVB2 | 67837 | 104246 | 1.35% | 0.170% |
| 10 | 7.459 | 467 | 470 | 472 | rVB | 4961988 | 5532891 | 71.47% | 9.044% |
| 11 | 7.916 | 506 | 510 | 513 | rBV3 | 62006 | 121933 | 1.58% | 0.199% |
| 12 | 8.179 | 530 | 533 | 535 | rVB | 2293008 | 2320829 | 29.98% | 3.794% |
| 13 | 9.253 | 624 | 627 | 630 | rBV | 7571437 | 7741296 | 100.00% | 12.654% |
| 14 | 9.653 | 659 | 662 | 663 | rBV | 145436 | 164217 | 2.12% | 0.268% |
| 15 | 9.859 | 679 | 680 | 684 | rBV2 | 49890 | 84464 | 1.09% | 0.138% |
| 16 | 9.928 | 684 | 686 | 689 | rVB | 2069903 | 2314646 | 29.90% | 3.783% |
| 17 | 10.076 | 697 | 699 | 702 | rBV | 138801 | 223699 | 2.89% | 0.366% |
| 18 | 10.225 | 710 | 712 | 717 | rVB | 60986 | 112616 | 1.45% | 0.184% |
| 19 | 10.362 | 722 | 724 | 726 | rVB | 134530 | 117546 | 1.52% | 0.192% |
| 20 | 10.591 | 739 | 744 | 746 | rBV | 1690221 | 1870343 | 24.16% | 3.057% |
| 21 | 10.728 | 753 | 756 | 758 | rBV2 | 3570536 | 5026526 | 64.93% | 8.216% |
| 22 | 10.785 | 758 | 761 | 763 | rVV | 1559839 | 1518296 | 19.61% | 2.482% |
| 23 | 10.842 | 763 | 766 | 770 | rVB | 106611 | 203056 | 2.62% | 0.332% |
| 24 | 11.025 | 779 | 782 | 787 | rVB5 | 28334 | 91447 | 1.18% | 0.149% |
| 25 | 11.288 | 803 | 805 | 806 | rBV2 | 91636 | 103779 | 1.34% | 0.170% |
| 26 | 11.414 | 814 | 816 | 819 | rBV | 2352997 | 2096685 | 27.08% | 3.427% |
| 27 | 11.631 | 831 | 835 | 837 | rBV2 | 76088 | 110477 | 1.43% | 0.181% |
| 28 | 12.888 | 943 | 945 | 948 | rVB | 182126 | 197283 | 2.55% | 0.322% |
| 29 | 13.002 | 952 | 955 | 958 | rBV | 5667018 | 5275590 | 68.15% | 8.623% |
| 30 | 13.905 | 1031 | 1034 | 1037 | rBV2 | 109926 | 162695 | 2.10% | 0.266% |
| 31 | 14.054 | 1044 | 1047 | 1049 | rBV | 1284996 | 1438056 | 18.58% | 2.351% |
| 32 | 15.494 | 1170 | 1173 | 1175 | rBV | 976953 | 1387023 | 17.92% | 2.267% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

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-BF123115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 61178067

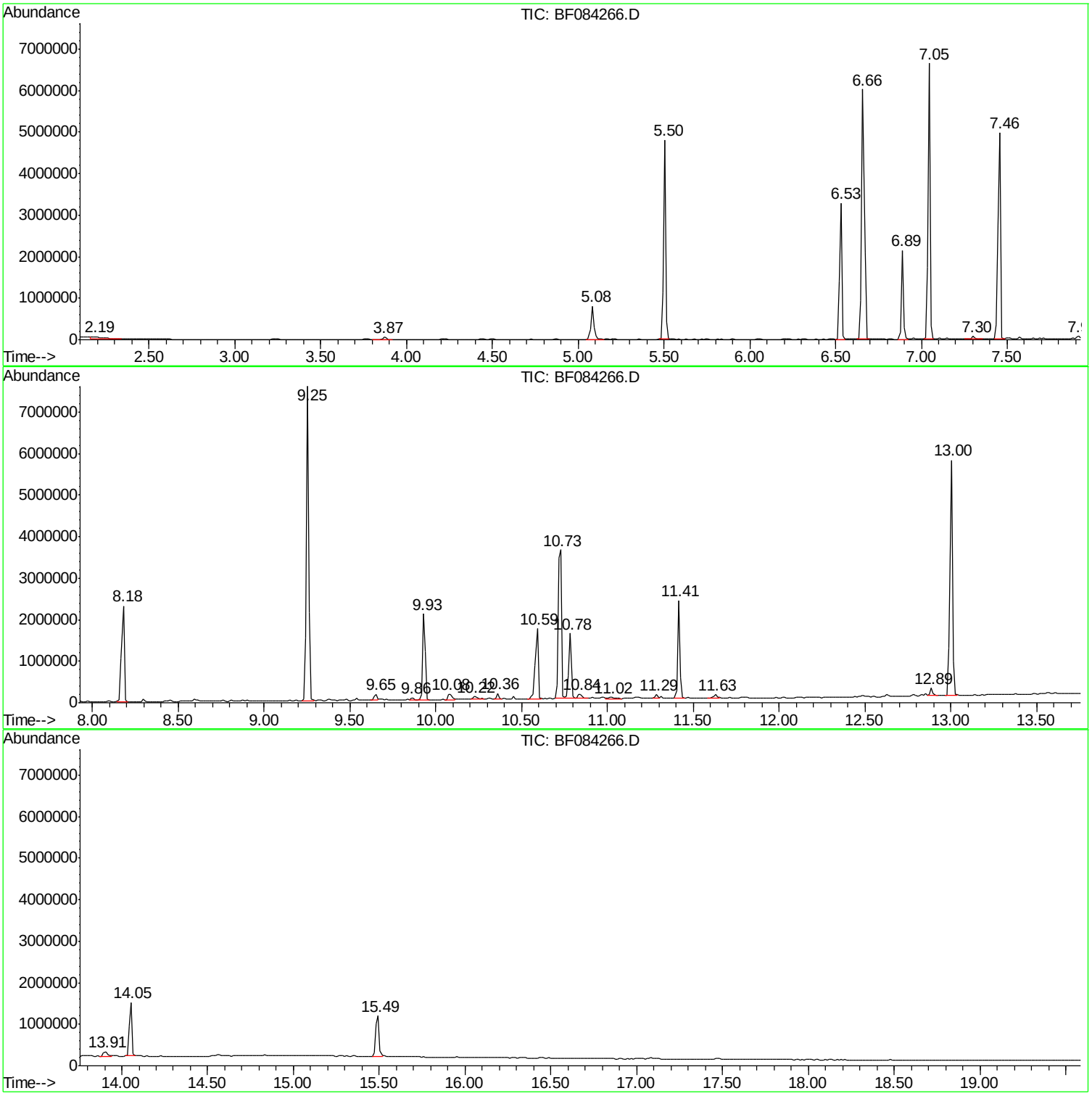
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

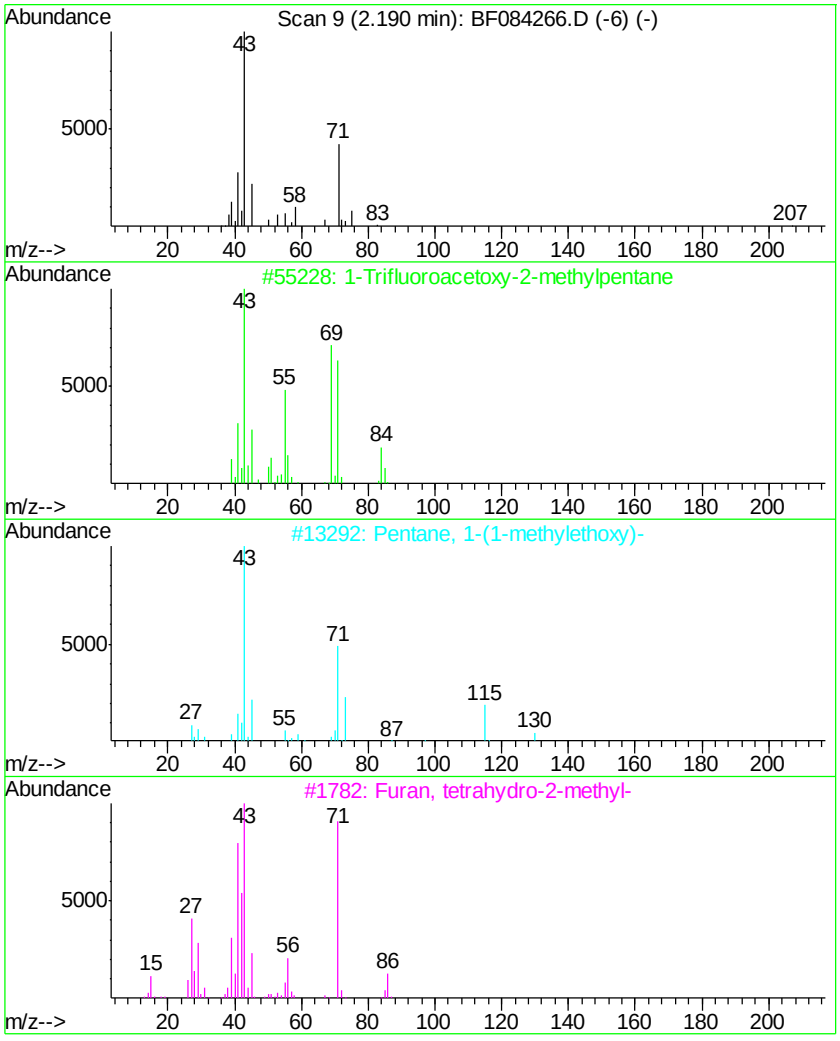
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

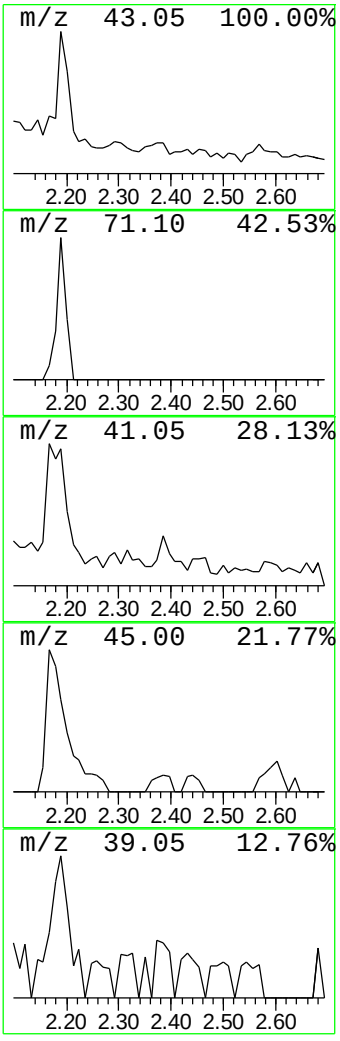
**********

Peak Number 1 unknown2.19 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.19 | 2.24 ng | 202767 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Trifluoroacetoxy-2-methylpentane | 198 | C8H13F3O2 | 155089-96-6 | 45 |
| 2 | Pentane, 1-(1-methylethoxy)- | 130 | C8H18O | 005756-37-6 | 36 |
| 3 | Furan, tetrahydro-2-methyl- | 86 | C5H10O | 000096-47-9 | 12 |
| 4 | Vinyl butyrate | 114 | C6H10O2 | 000123-20-6 | 9 |
| 5 | Butane, 1-bromo-2-methyl- | 150 | C5H11Br | 010422-35-2 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

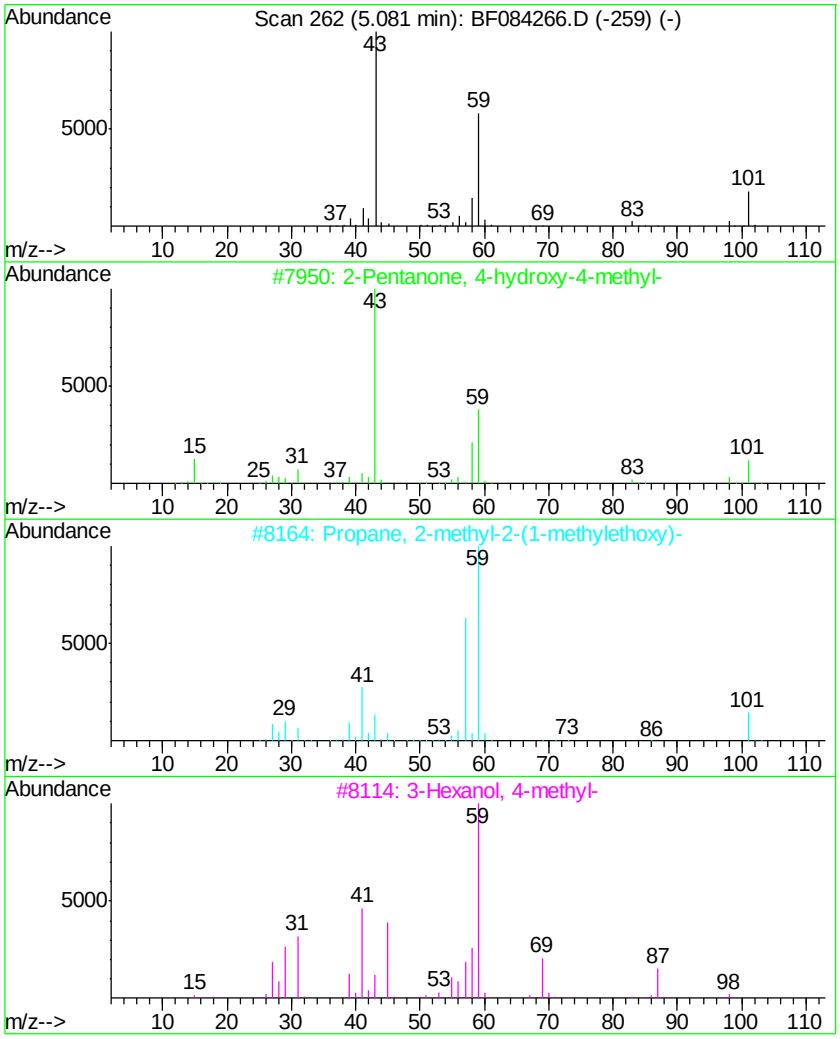
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

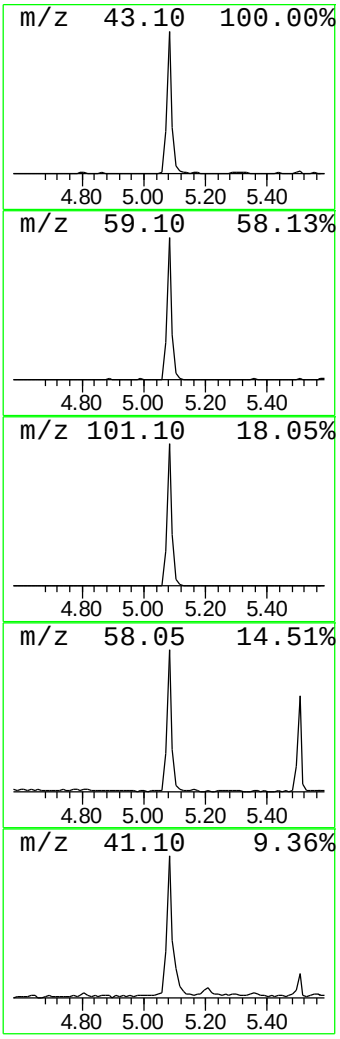
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.08 | 10.68 ng | 965021 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 42 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | 1,2-Butanediol, (.+/-.)- | 90 | C4H10O2 | 026171-83-5 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

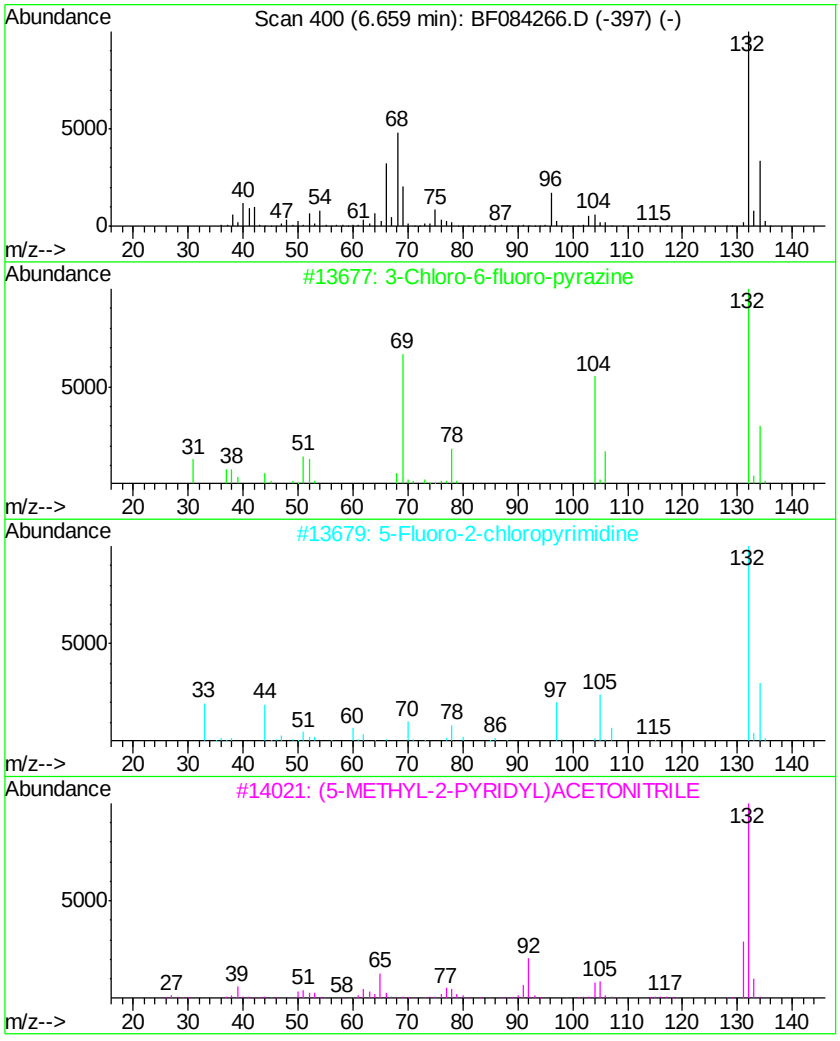
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

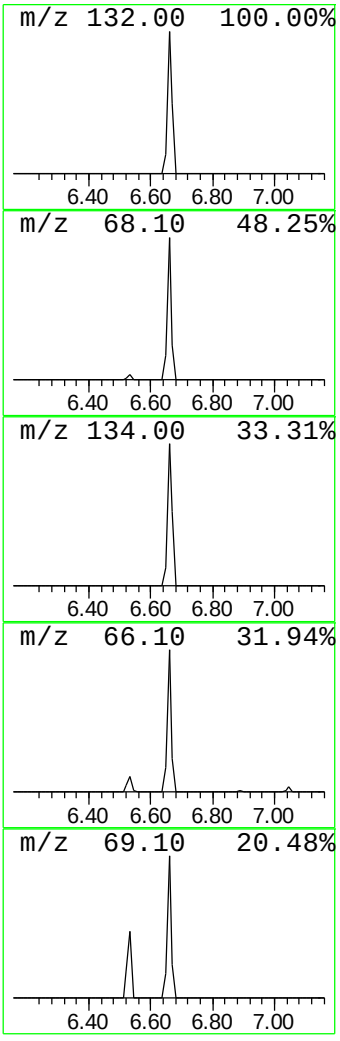
**********

Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 68.69 ng | 6205080 | 1,4-Dichlorobenzene-d4 | 6.89 |

| 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-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 4 | 1,2,3-Trifluorobenzene | 132 | C6H3F3 | 001489-53-8 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

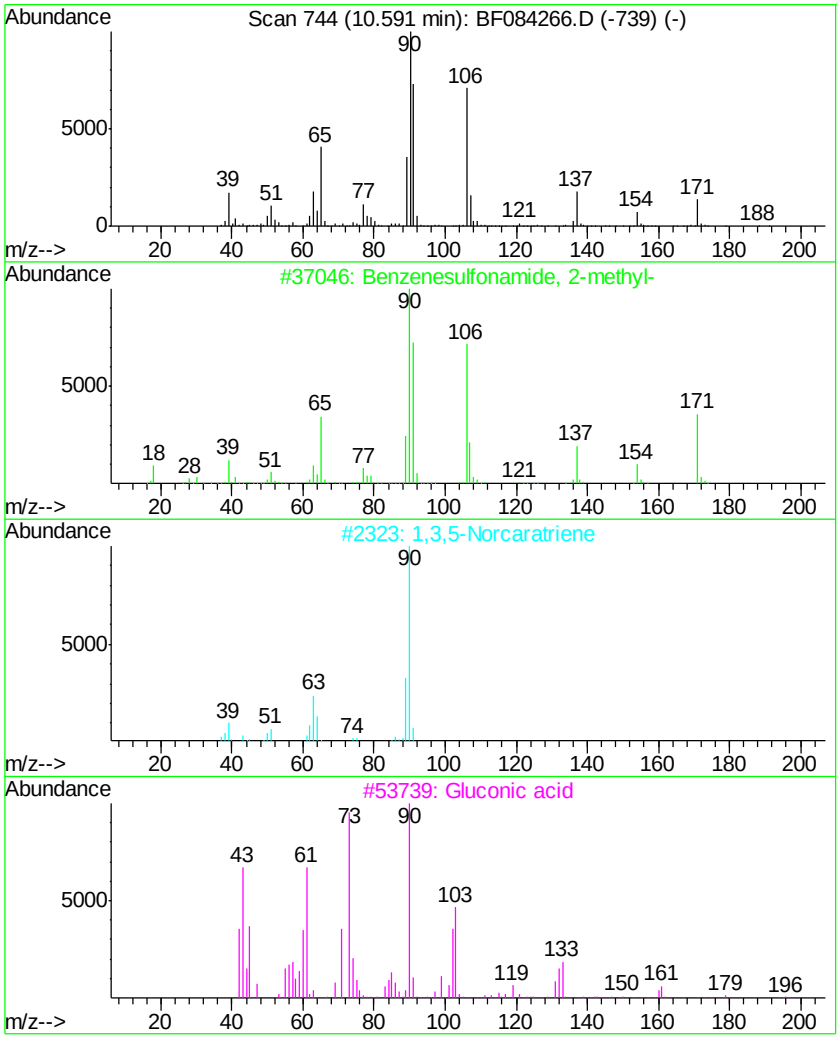
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

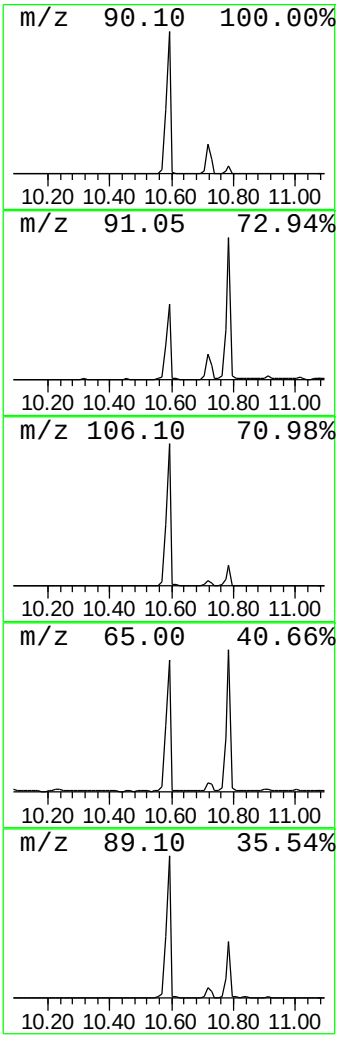
**********

Peak Number 5 Benzenesulfonamide, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.59 | 16.16 ng | 1870340 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 2-methyl- | 171 | C7H9NO2S | 000088-19-7 | 96 |
| 2 | 1,3,5-Norcaratriene | 90 | C7H6 | 004646-69-9 | 43 |
| 3 | Gluconic acid | 196 | C6H12O7 | 000526-95-4 | 43 |
| 4 | Thiourea, methyl- | 90 | C2H6N2S | 000598-52-7 | 25 |
| 5 | 3,5-Octadiyne | 106 | C8H10 | 016387-70-5 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

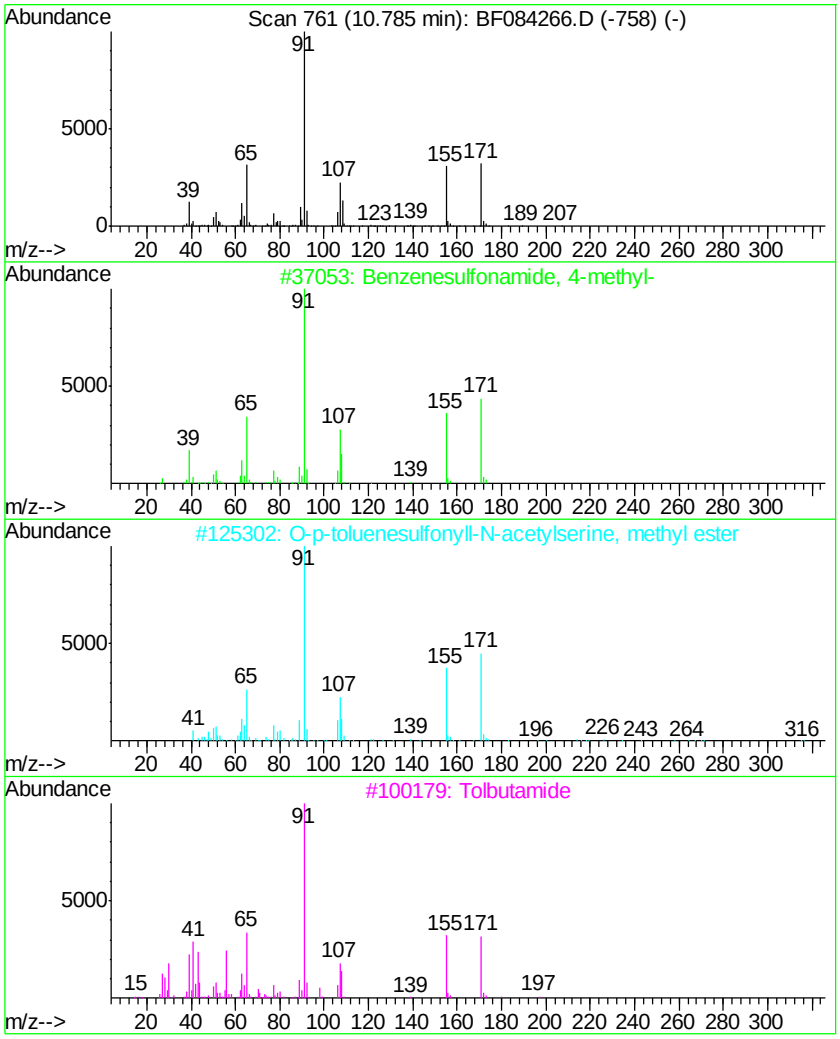
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

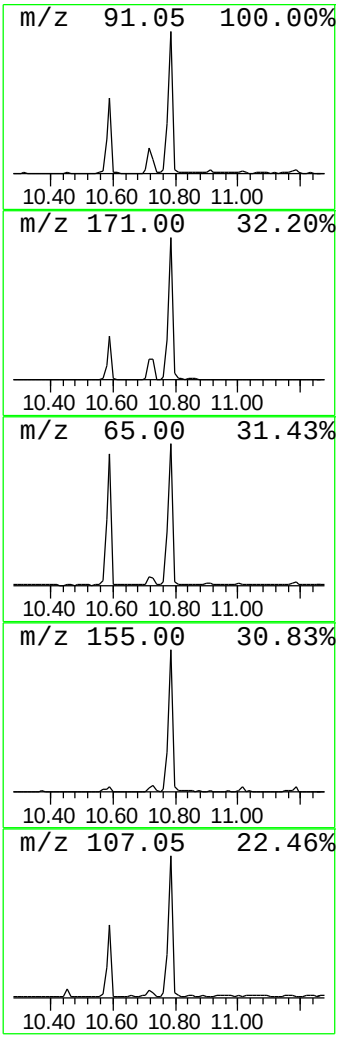
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.78 | 14.48 ng | 1518300 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 4-methyl- | 171 | C7H9NO2S | 000070-55-3 | 98 |
| 2 | O-p-toluenesulfonyll-N-acetylser... | 315 | C13H17NO6S | 1000126-44-8 | 87 |
| 3 | Tolbutamide | 270 | C12H18N2O3S | 000064-77-7 | 83 |
| 4 | N-p-toluenesulfonyl-l-threonine,... | 363 | C18H21NO5S | 1000130-34-4 | 80 |
| 5 | Thiosulfuric acid, S-[2-[3-(4-me... | 381 | C12H19N3O5S3 | 1000255-60-3 | 78 |



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Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

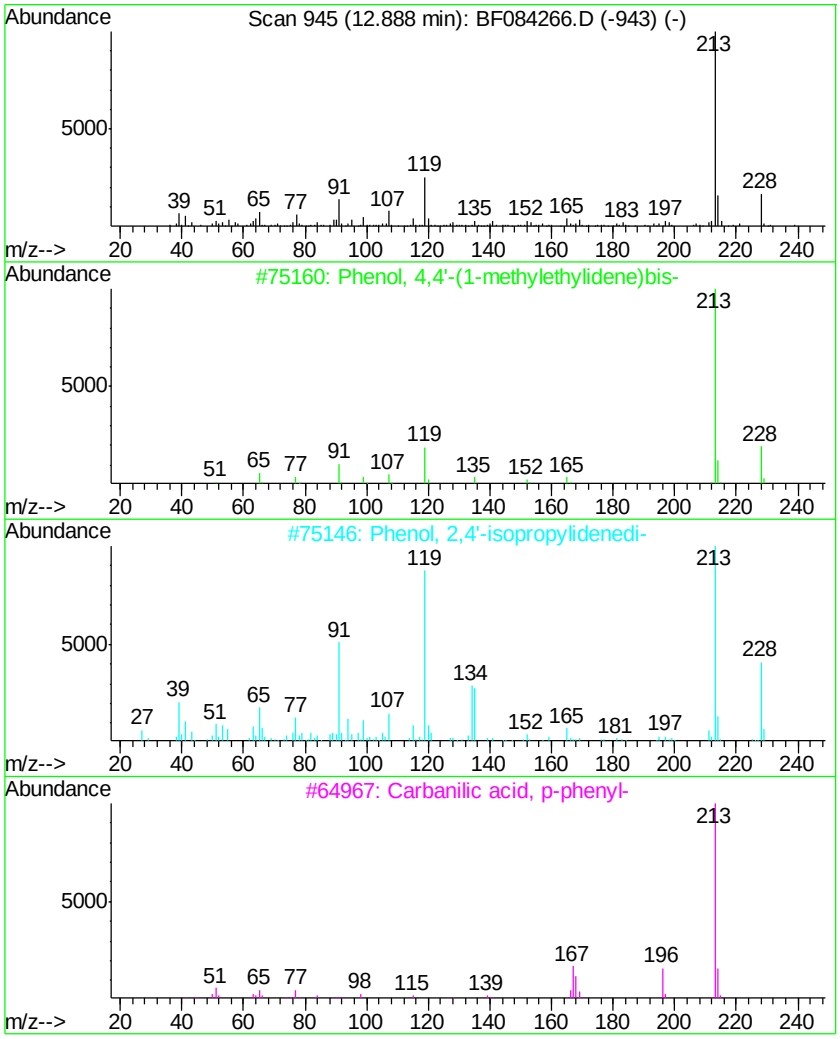
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

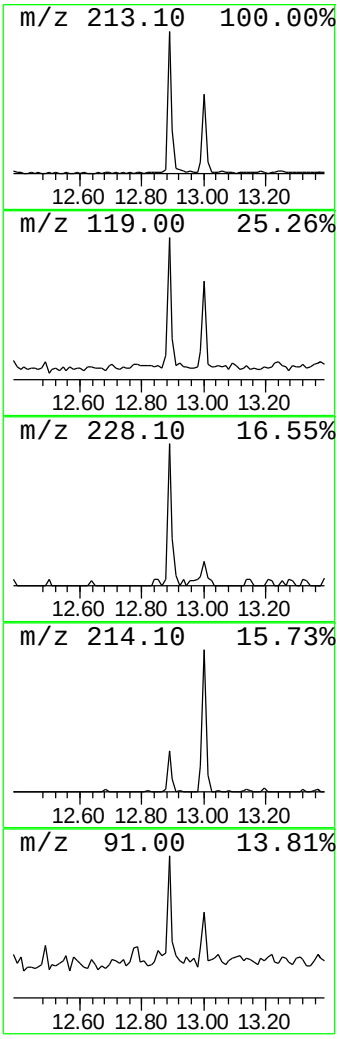
**********

Peak Number 7 Phenol, 4,4'-(1-methylethyl... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.89 | 2.74 ng | 197283 | Chrysene-d12 | 14.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-(1-methylethylidene... | 228 | C15H16O2 | 000080-05-7 | 94 |
| 2 | Phenol, 2,4'-isopropylidenedi- | 228 | C15H16O2 | 000837-08-1 | 56 |
| 3 | Carbanilic acid, p-phenyl- | 213 | C13H11NO2 | 004474-53-7 | 52 |
| 4 | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228 | C14H12O3 | 000553-19-5 | 50 |
| 5 | Carbamic acid, [1,1'-biphenyl]-3... | 213 | C13H11NO2 | 055030-29-0 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

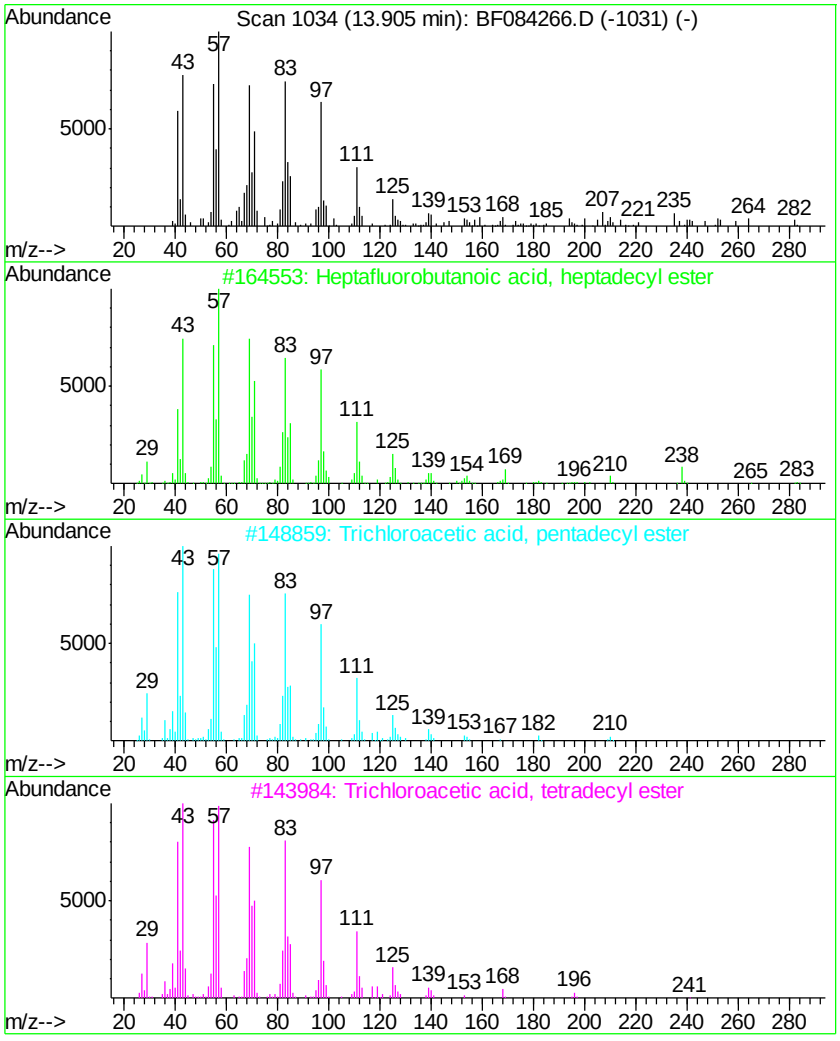
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

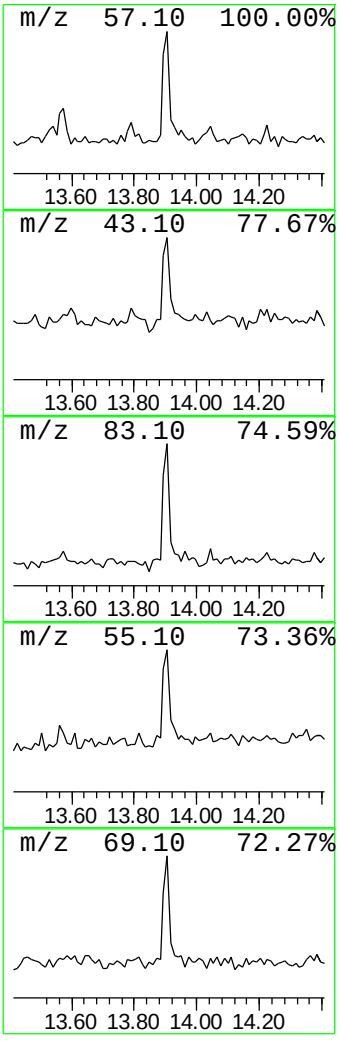
**********

Peak Number 8 Heptafluorobutanoic acid, h... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.91 | 2.26 ng | 162695 | Chrysene-d12 | 14.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 94 |
| 2 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91 |
| 3 | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 91 |
| 4 | 5-Octadecene, (E)- | 252 | C18H36 | 007206-21-5 | 90 |
| 5 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010416\
Data File : BF084266.D
Acq On : 5 Jan 2016 5:31
Operator : UM/SJ
Sample : G4990-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W-41

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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 |
| unknown2.19 | 2.19 | 2.2 | ng | 202767 | 1 | 6.89 | 1806720 | 20.0 |
| 2-Pentanone, 4-hy... | 5.08 | 10.7 | ng | 965021 | 1 | 6.89 | 1806720 | 20.0 |
| unknown6.66 | 6.66 | 68.7 | ng | 6205080 | 1 | 6.89 | 1806720 | 20.0 |
| Benzenesulfonamid... | 10.59 | 16.2 | ng | 1870340 | 3 | 9.93 | 2314650 | 20.0 |
| Benzenesulfonamid... | 10.78 | 14.5 | ng | 1518300 | 4 | 11.41 | 2096690 | 20.0 |
| Phenol, 4,4'-(1-m... | 12.89 | 2.7 | ng | 197283 | 5 | 14.05 | 1438060 | 20.0 |
| Heptafluorobutano... | 13.91 | 2.3 | ng | 162695 | 5 | 14.05 | 1438060 | 20.0 |