LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

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-BF110715.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 | 3.607 | 129 | 133 | 137 | rBV | 46718 | 89758 | 1.62% | 0.197% |
| 2 | 4.979 | 251 | 253 | 256 | rVB | 757633 | 940401 | 16.94% | 2.063% |
| 3 | 5.436 | 290 | 293 | 295 | rBV | 2548040 | 2725939 | 49.11% | 5.981% |
| 4 | 6.464 | 381 | 383 | 386 | rVB | 1867284 | 1708794 | 30.78% | 3.749% |
| 5 | 6.590 | 391 | 394 | 396 | rBV | 3302456 | 4425533 | 79.73% | 9.709% |
| 6 | 6.807 | 410 | 413 | 415 | rBV | 1349075 | 1220749 | 21.99% | 2.678% |
| 7 | 6.887 | 418 | 420 | 424 | rVV | 137455 | 175703 | 3.17% | 0.385% |
| 8 | 6.967 | 424 | 427 | 429 | rVB | 4310709 | 4358489 | 78.52% | 9.562% |
| 9 | 7.162 | 440 | 444 | 446 | rBV2 | 45013 | 70581 | 1.27% | 0.155% |
| 10 | 7.333 | 457 | 459 | 460 | rBV2 | 55048 | 67884 | 1.22% | 0.149% |
| 11 | 7.379 | 460 | 463 | 465 | rVB | 2929584 | 3915059 | 70.53% | 8.589% |
| 12 | 7.847 | 500 | 504 | 507 | rBV3 | 59747 | 157560 | 2.84% | 0.346% |
| 13 | 8.030 | 516 | 520 | 523 | rVB3 | 127466 | 239302 | 4.31% | 0.525% |
| 14 | 8.099 | 523 | 526 | 528 | rBV | 1202429 | 1535473 | 27.66% | 3.369% |
| 15 | 8.202 | 532 | 535 | 536 | rBV2 | 79181 | 83819 | 1.51% | 0.184% |
| 16 | 8.305 | 543 | 544 | 549 | rVB4 | 64312 | 153073 | 2.76% | 0.336% |
| 17 | 8.373 | 549 | 550 | 553 | rVB | 44313 | 56595 | 1.02% | 0.124% |
| 18 | 8.442 | 553 | 556 | 558 | rBV2 | 77079 | 121445 | 2.19% | 0.266% |
| 19 | 8.476 | 558 | 559 | 562 | rVV3 | 61095 | 99764 | 1.80% | 0.219% |
| 20 | 8.590 | 566 | 569 | 571 | rVV3 | 70503 | 150015 | 2.70% | 0.329% |
| 21 | 8.625 | 571 | 572 | 576 | rVB4 | 105767 | 216528 | 3.90% | 0.475% |
| 22 | 8.830 | 585 | 590 | 593 | rBV3 | 120612 | 343311 | 6.18% | 0.753% |
| 23 | 8.888 | 593 | 595 | 598 | rBV3 | 43101 | 70004 | 1.26% | 0.154% |
| 24 | 8.945 | 598 | 600 | 601 | rBV2 | 53794 | 96652 | 1.74% | 0.212% |
| 25 | 9.059 | 607 | 610 | 612 | rBV4 | 90937 | 205202 | 3.70% | 0.450% |
| 26 | 9.105 | 612 | 614 | 615 | rVV | 69975 | 84328 | 1.52% | 0.185% |
| 27 | 9.128 | 615 | 616 | 617 | rVV | 107621 | 82306 | 1.48% | 0.181% |
| 28 | 9.173 | 617 | 620 | 622 | rVB | 5181946 | 5550768 | 100.00% | 12.178% |
| 29 | 9.288 | 626 | 630 | 632 | rBV4 | 59654 | 152666 | 2.75% | 0.335% |
| 30 | 9.356 | 635 | 636 | 638 | rVB2 | 55126 | 66976 | 1.21% | 0.147% |
| 31 | 9.436 | 641 | 643 | 645 | rBV2 | 52626 | 82413 | 1.48% | 0.181% |
| 32 | 9.493 | 646 | 648 | 651 | rVV3 | 103517 | 199182 | 3.59% | 0.437% |
| 33 | 9.573 | 651 | 655 | 658 | rVB | 206760 | 332333 | 5.99% | 0.729% |
| 34 | 9.665 | 661 | 663 | 664 | rBV | 65792 | 58157 | 1.05% | 0.128% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

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-BF110715.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.791 | 672 | 674 | 677 | rBV | 211784 | 188640 | 3.40% | 0.414% |
| 36 | 9.848 | 677 | 679 | 683 | rVB | 1770198 | 1680765 | 30.28% | 3.687% |
| 37 | 10.122 | 701 | 703 | 704 | rBV2 | 66474 | 79436 | 1.43% | 0.174% |
| 38 | 10.156 | 704 | 706 | 707 | rBV | 77161 | 76738 | 1.38% | 0.168% |
| 39 | 10.213 | 708 | 711 | 714 | rVB3 | 102543 | 195588 | 3.52% | 0.429% |
| 40 | 10.293 | 714 | 718 | 719 | rVB2 | 172722 | 251647 | 4.53% | 0.552% |
| 41 | 10.351 | 719 | 723 | 727 | rBV7 | 43196 | 173838 | 3.13% | 0.381% |
| 42 | 10.419 | 727 | 729 | 730 | rVB | 53190 | 65234 | 1.18% | 0.143% |
| 43 | 10.465 | 730 | 733 | 735 | rBV3 | 101475 | 196093 | 3.53% | 0.430% |
| 44 | 10.591 | 743 | 744 | 746 | rBV | 65777 | 84852 | 1.53% | 0.186% |
| 45 | 10.648 | 746 | 749 | 751 | rVV | 2647519 | 3272667 | 58.96% | 7.180% |
| 46 | 10.762 | 757 | 759 | 764 | rVB | 204480 | 240917 | 4.34% | 0.529% |
| 47 | 11.334 | 806 | 809 | 811 | rBV | 1617785 | 1381624 | 24.89% | 3.031% |
| 48 | 11.802 | 848 | 850 | 853 | rBV3 | 60688 | 121949 | 2.20% | 0.268% |
| 49 | 11.882 | 855 | 857 | 861 | rVV | 524350 | 515922 | 9.29% | 1.132% |
| 50 | 12.008 | 866 | 868 | 873 | rBV | 447766 | 506199 | 9.12% | 1.111% |
| 51 | 12.374 | 899 | 900 | 903 | rBV | 81468 | 72103 | 1.30% | 0.158% |
| 52 | 12.671 | 923 | 926 | 928 | rBV | 309605 | 426515 | 7.68% | 0.936% |
| 53 | 12.751 | 932 | 933 | 937 | rVB2 | 107270 | 137100 | 2.47% | 0.301% |
| 54 | 12.922 | 945 | 948 | 950 | rBV | 4221916 | 3853728 | 69.43% | 8.455% |
| 55 | 13.825 | 1025 | 1027 | 1031 | rBV | 156350 | 162311 | 2.92% | 0.356% |
| 56 | 13.962 | 1037 | 1039 | 1042 | rBV | 709612 | 1012276 | 18.24% | 2.221% |
| 57 | 15.391 | 1161 | 1164 | 1166 | rBV | 824858 | 1047314 | 18.87% | 2.298% |

Sum of corrected areas: 45580218

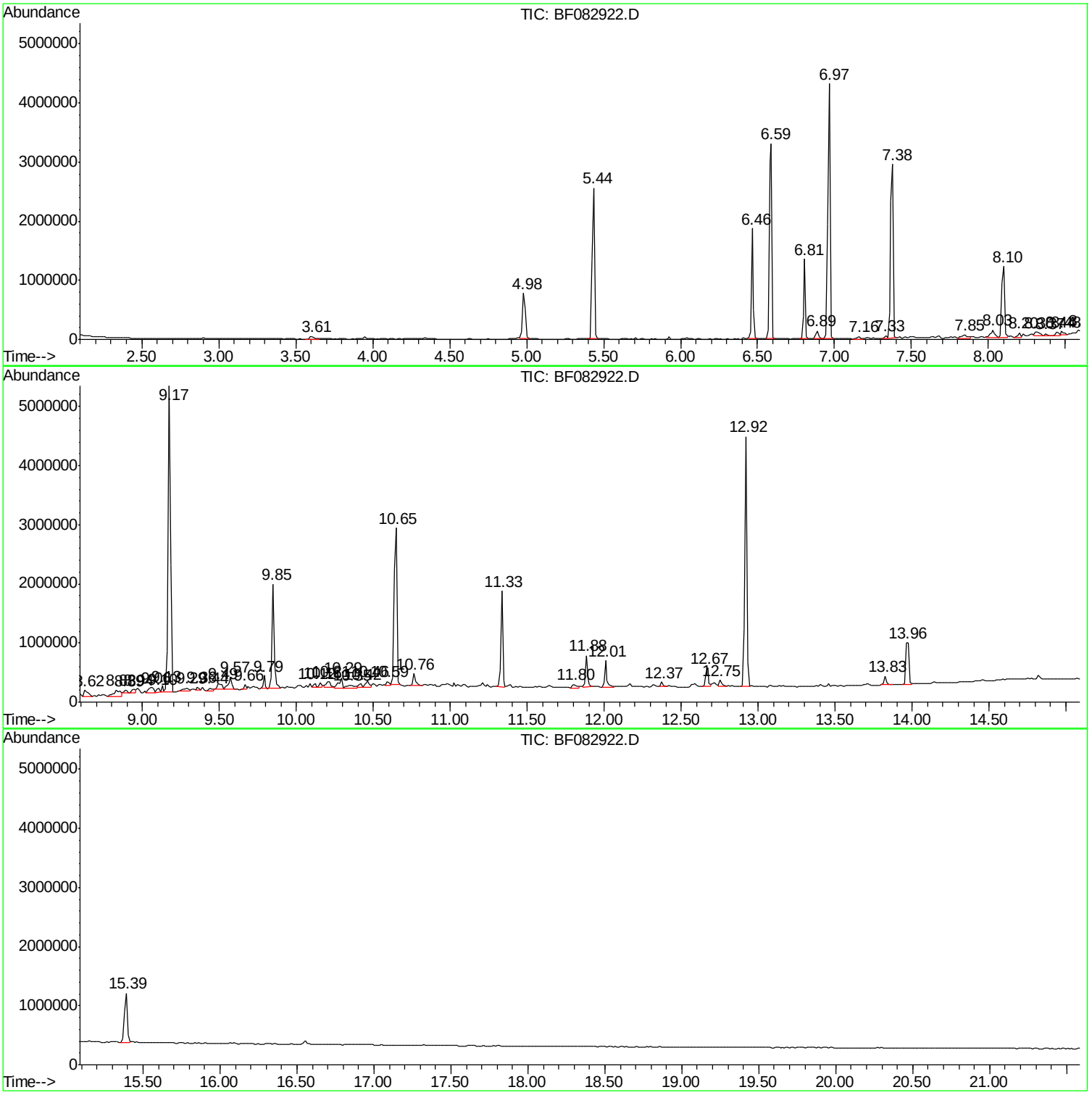
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.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\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

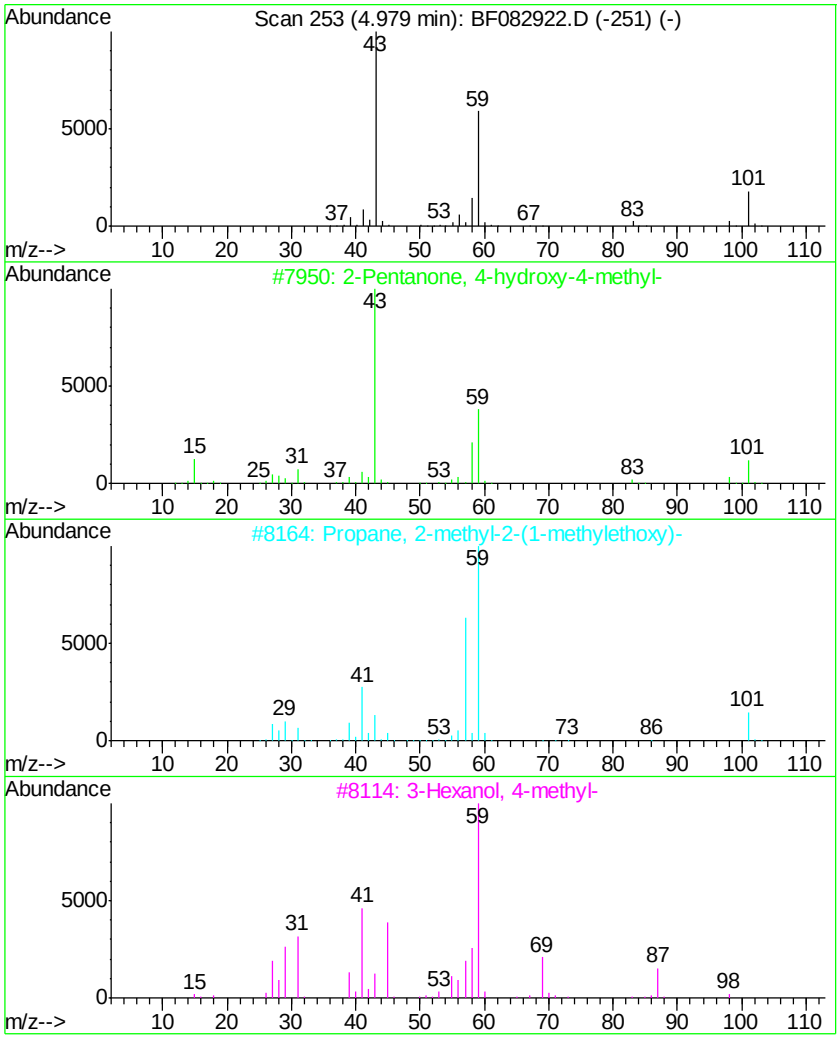
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

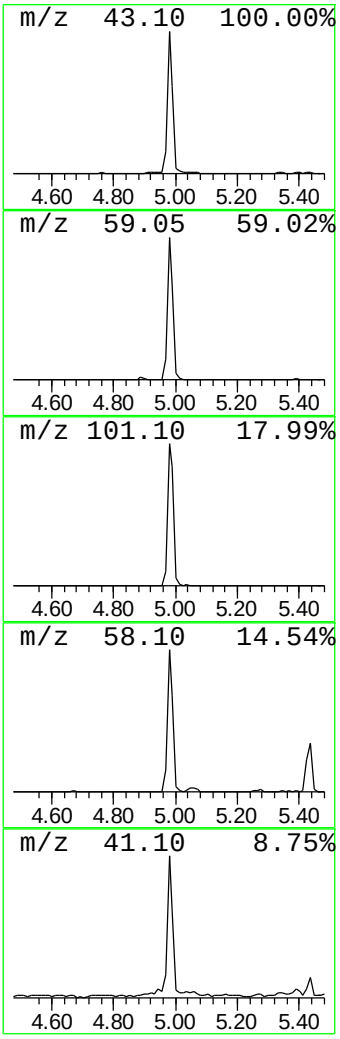
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.98 | 15.41 ng | 940401 | 1,4-Dichlorobenzene-d4 | 6.81 |

| 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 | 33 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

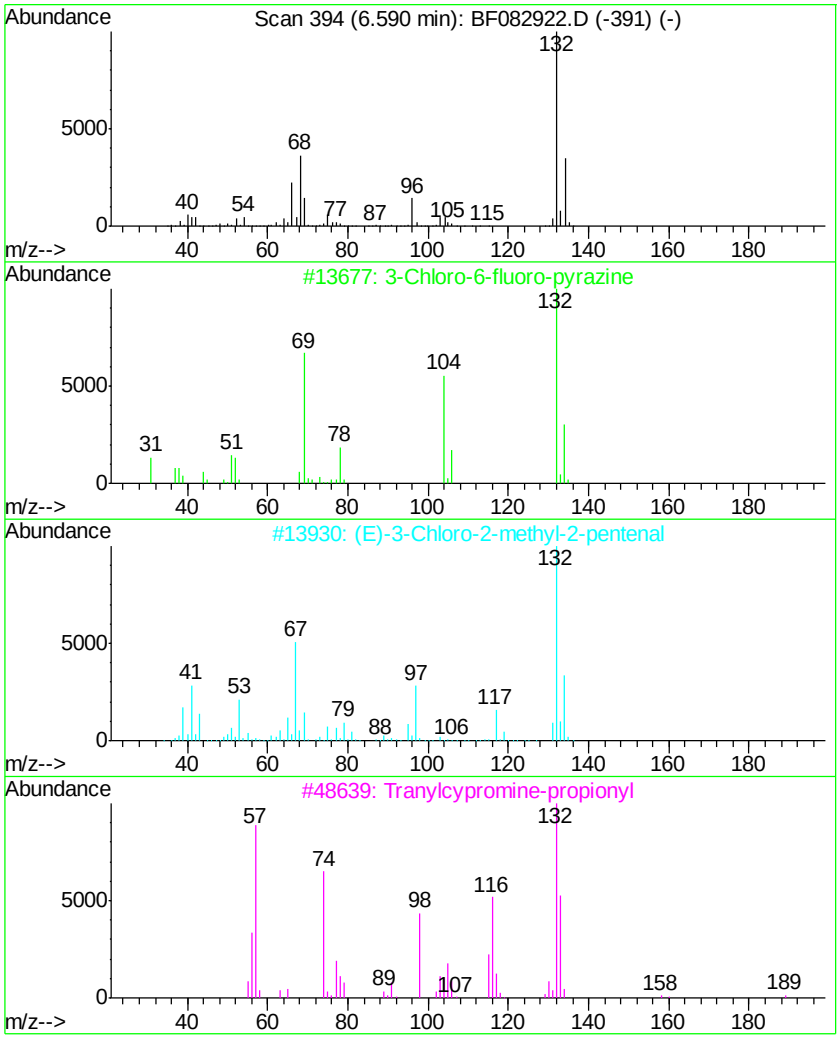
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

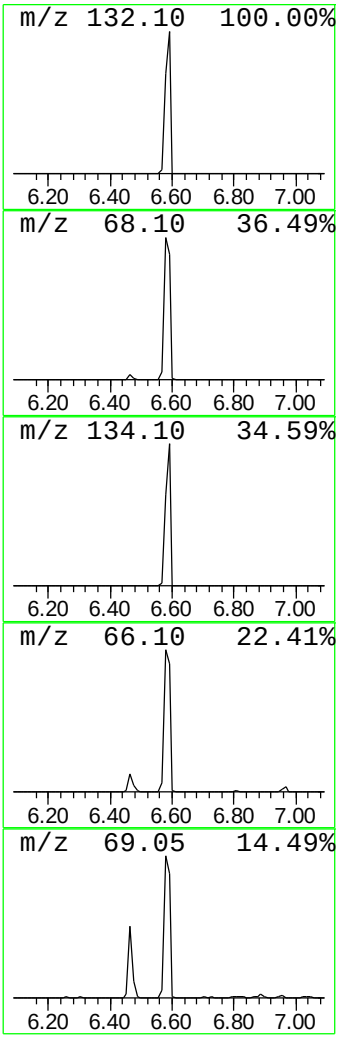
**********

Peak Number 2 unknown6.59 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.59 | 72.51 ng | 4425530 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 16 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

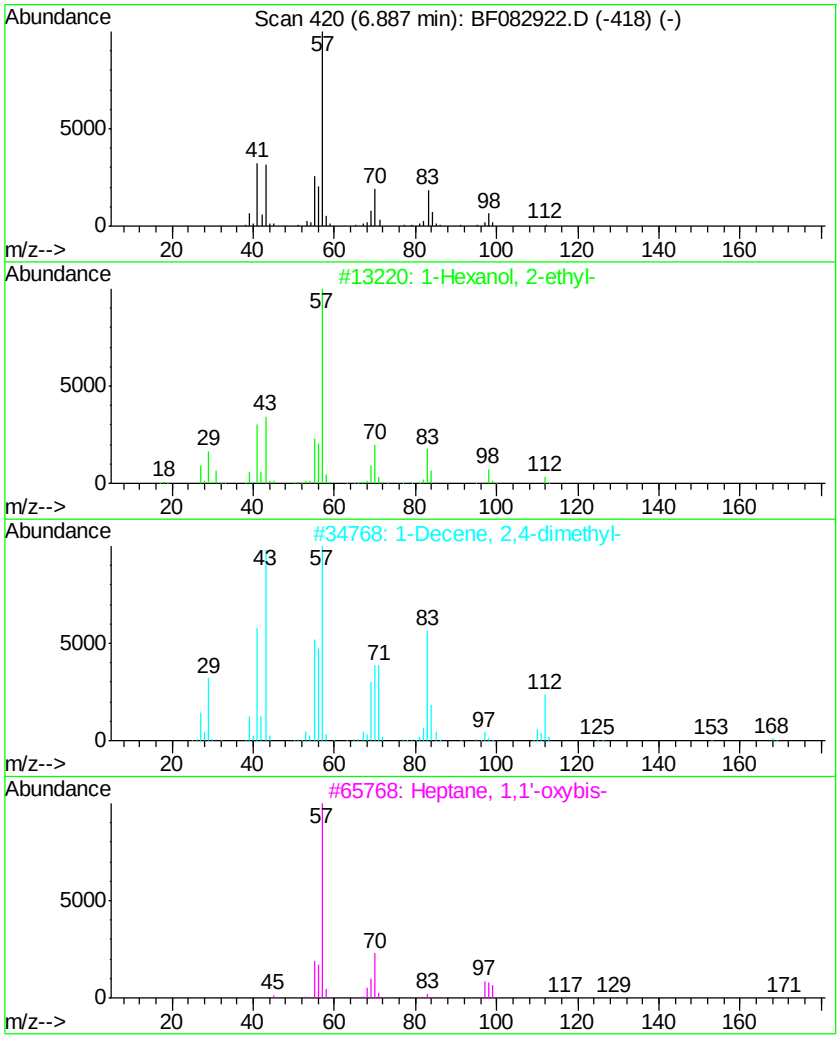
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

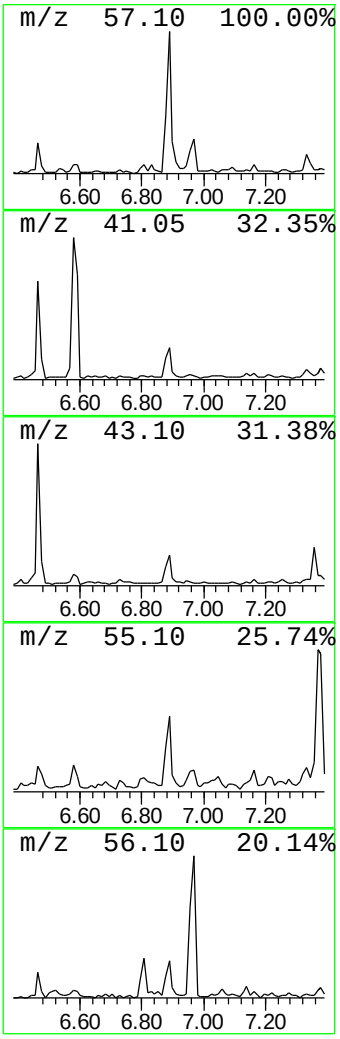
**********

Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.89 | 2.88 ng | 175703 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 83 |
| 2 | 1-Decene, 2,4-dimethyl- | 168 | C12H24 | 055170-80-4 | 53 |
| 3 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 45 |
| 4 | Heptane, 4-(1-methylethyl)- | 142 | C10H22 | 052896-87-4 | 43 |
| 5 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 42 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

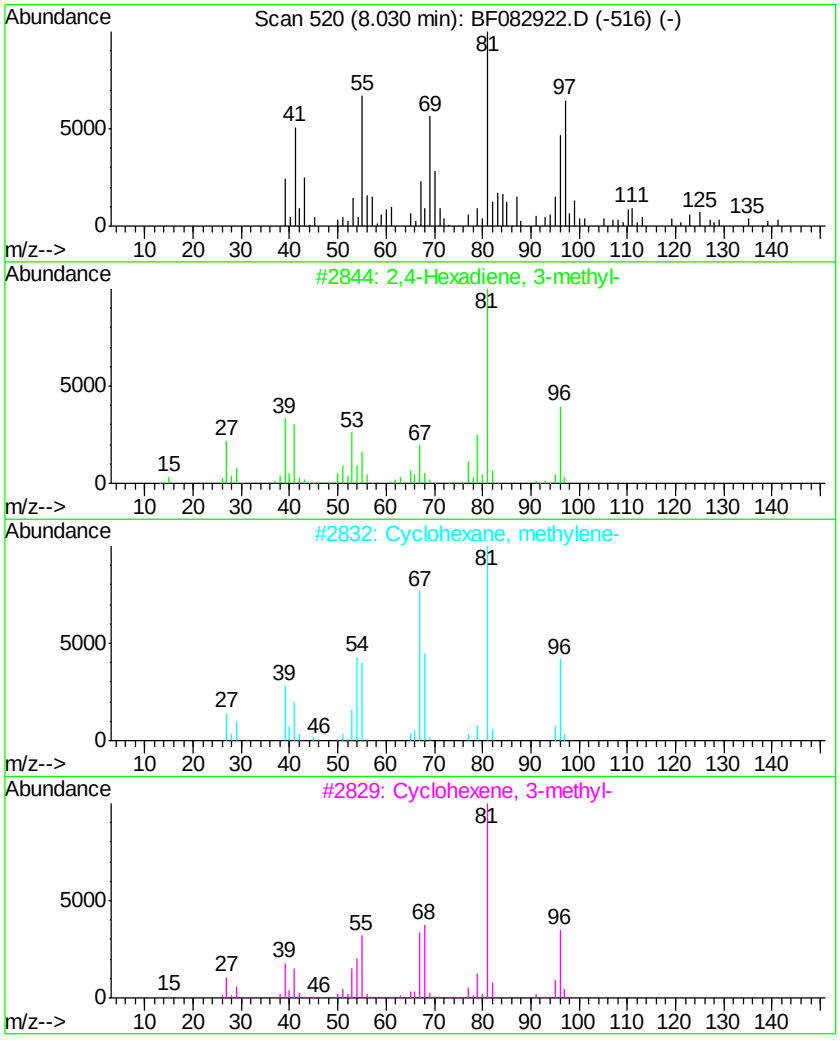
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

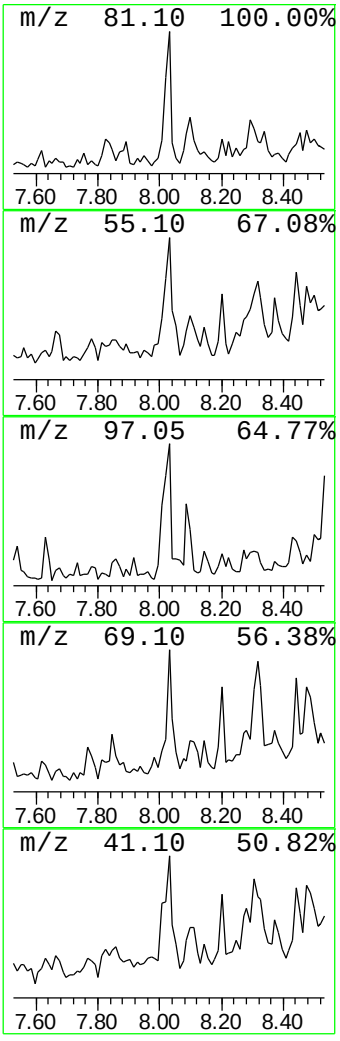
**********

Peak Number 5 unknown8.03 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.03 | 3.12 ng | 239302 | Naphthalene-d8 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Hexadiene, 3-methyl- | 96 | C7H12 | 028823-42-9 | 43 |
| 2 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 43 |
| 3 | Cyclohexene, 3-methyl- | 96 | C7H12 | 000591-48-0 | 43 |
| 4 | Cyclohexene, 4-methyl- | 96 | C7H12 | 000591-47-9 | 43 |
| 5 | 1,4-Hexadiene, 4-methyl- | 96 | C7H12 | 001116-90-1 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

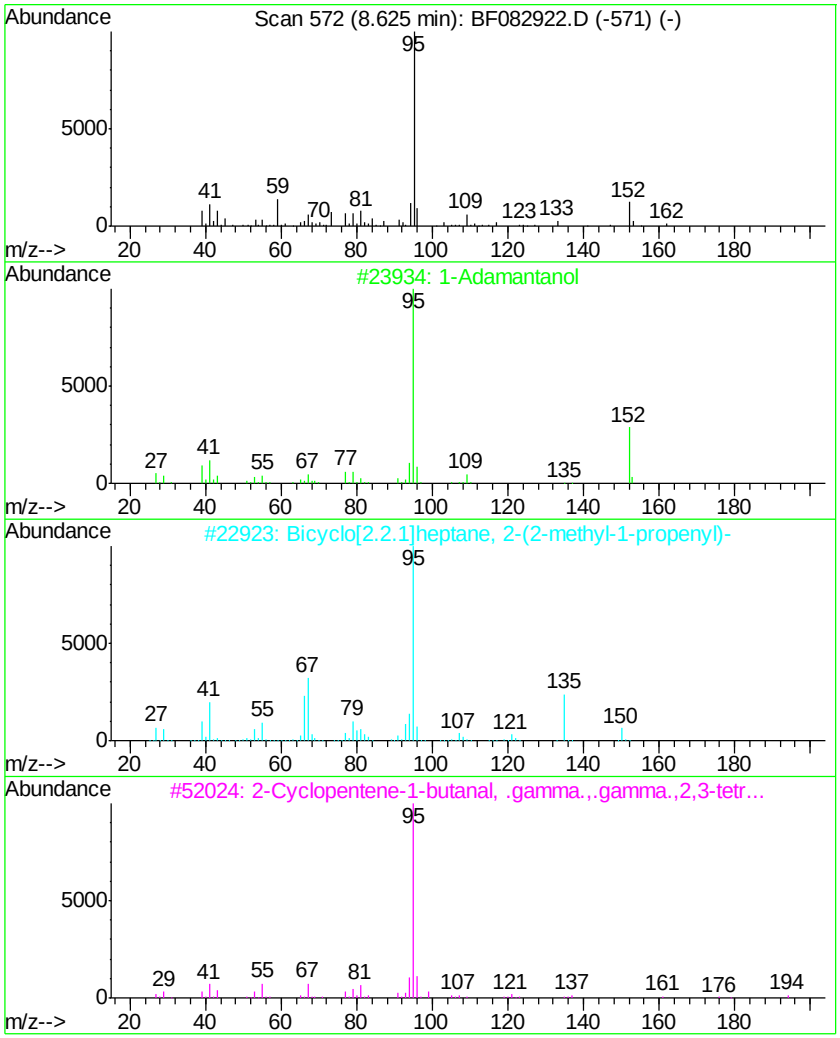
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

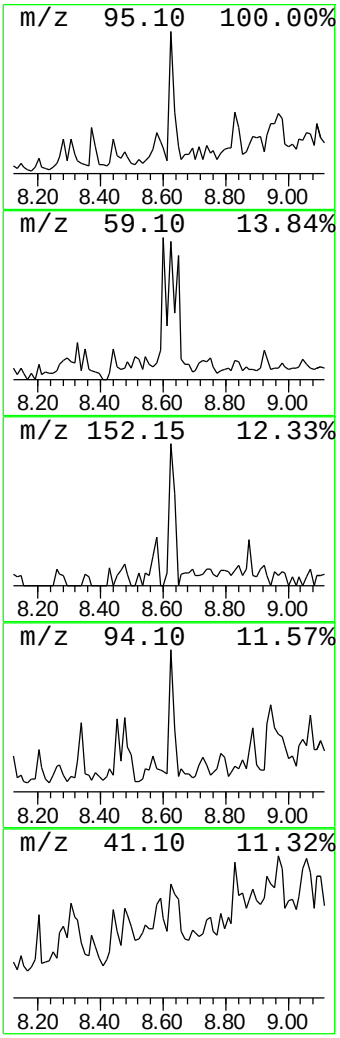
**********

Peak Number 6 1-Adamantanol Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.62 | 2.82 ng | 216528 | Naphthalene-d8 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Adamantanol | 152 | C10H16O | 000768-95-6 | 72 |
| 2 | Bicyclo[2.2.1]heptane, 2-(2-meth... | 150 | C11H18 | 061142-27-6 | 53 |
| 3 | 2-Cyclopentene-1-butanal, .gamma... | 194 | C13H22O | 060714-25-2 | 53 |
| 4 | 1,4-Pentadiene, 2,3,4-trimethyl- | 110 | C8H14 | 072014-90-5 | 52 |
| 5 | 4-Pyridinol | 95 | C5H5NO | 000626-64-2 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

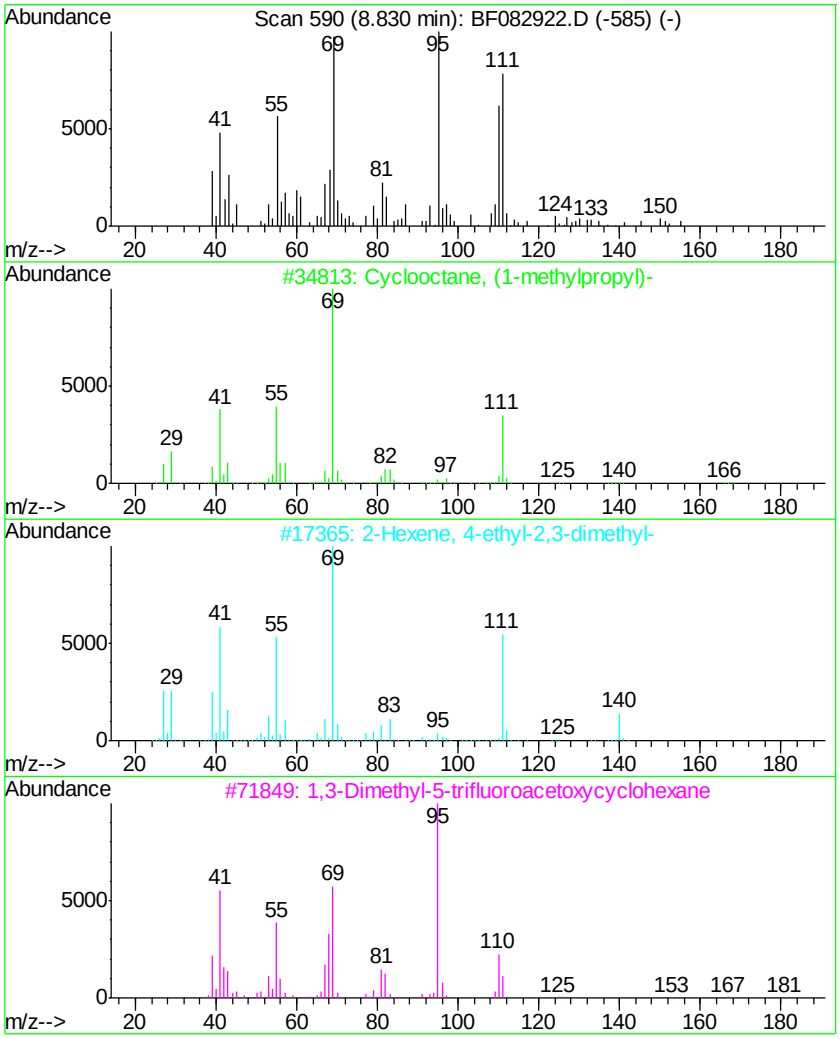
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

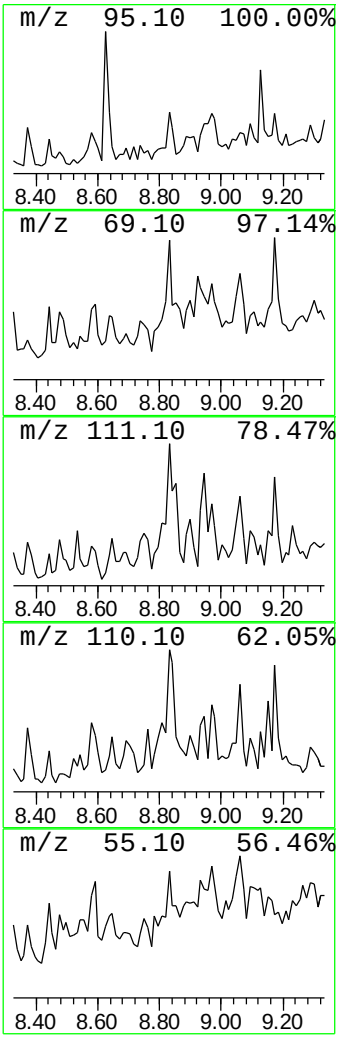
**********

Peak Number 7 unknown8.83 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.83 | 4.47 ng | 343311 | Naphthalene-d8 | 8.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclooctane, (1-methylpropyl)- | 168 | C12H24 | 016538-89-9 | 38 |
| 2 | 2-Hexene, 4-ethyl-2,3-dimethyl- | 140 | C10H20 | 1000149-19-7 | 38 |
| 3 | 1,3-Dimethyl-5-trifluoroacetoxyc... | 224 | C10H15F3O2 | 1000216-63-7 | 35 |
| 4 | 1-Pentyne, 3-methyl-3-(1-methyle... | 140 | C9H16O | 053966-55-5 | 35 |
| 5 | 4,4-Dimethyl-2-cyclopenten-1-one | 110 | C7H10O | 022748-16-9 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

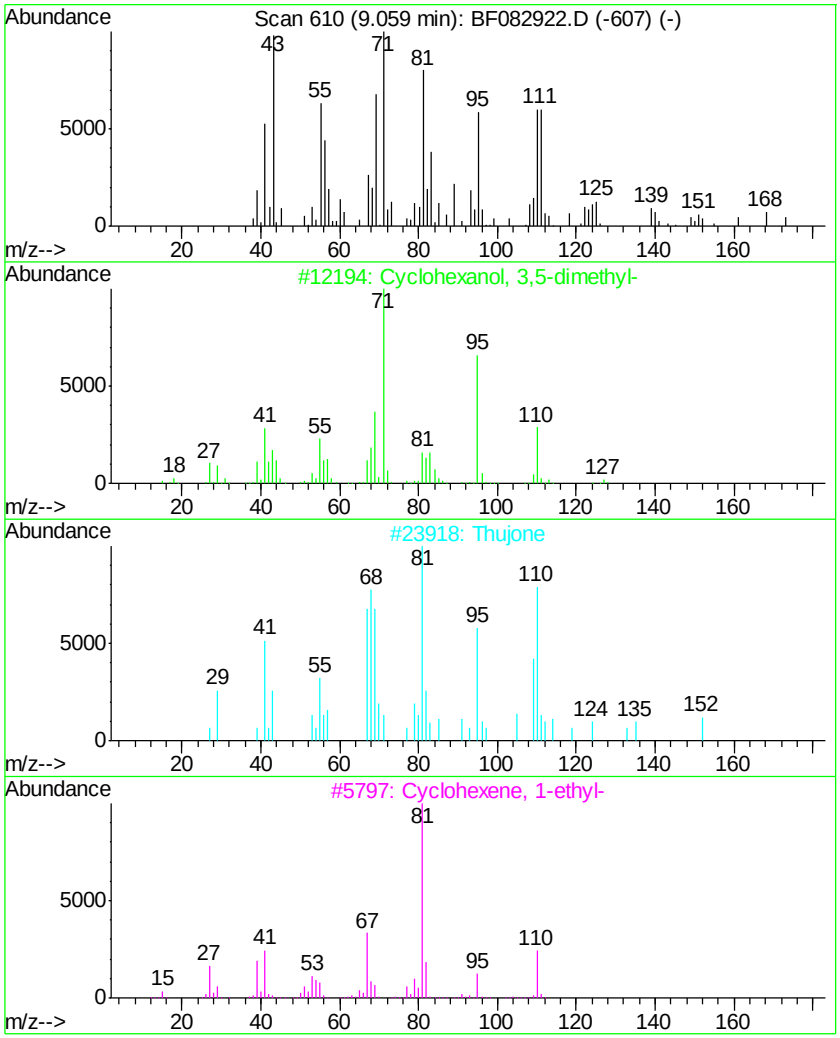
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

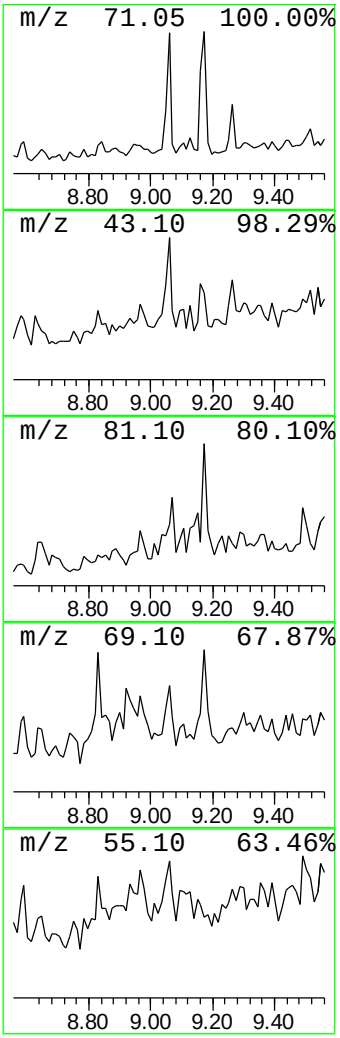
**********

Peak Number 8 unknown9.06 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.06 | 2.44 ng | 205202 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanol, 3,5-dimethyl- | 128 | C8H16O | 005441-52-1 | 38 |
| 2 | Thujone | 152 | C10H16O | 000546-80-5 | 35 |
| 3 | Cyclohexene, 1-ethyl- | 110 | C8H14 | 001453-24-3 | 25 |
| 4 | Cyclopentane, (2-methylbutyl)- | 140 | C10H20 | 053366-38-4 | 25 |
| 5 | Cyclohexanecarboxylic acid, 3,5-... | 238 | C15H26O2 | 1000279-52-3 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

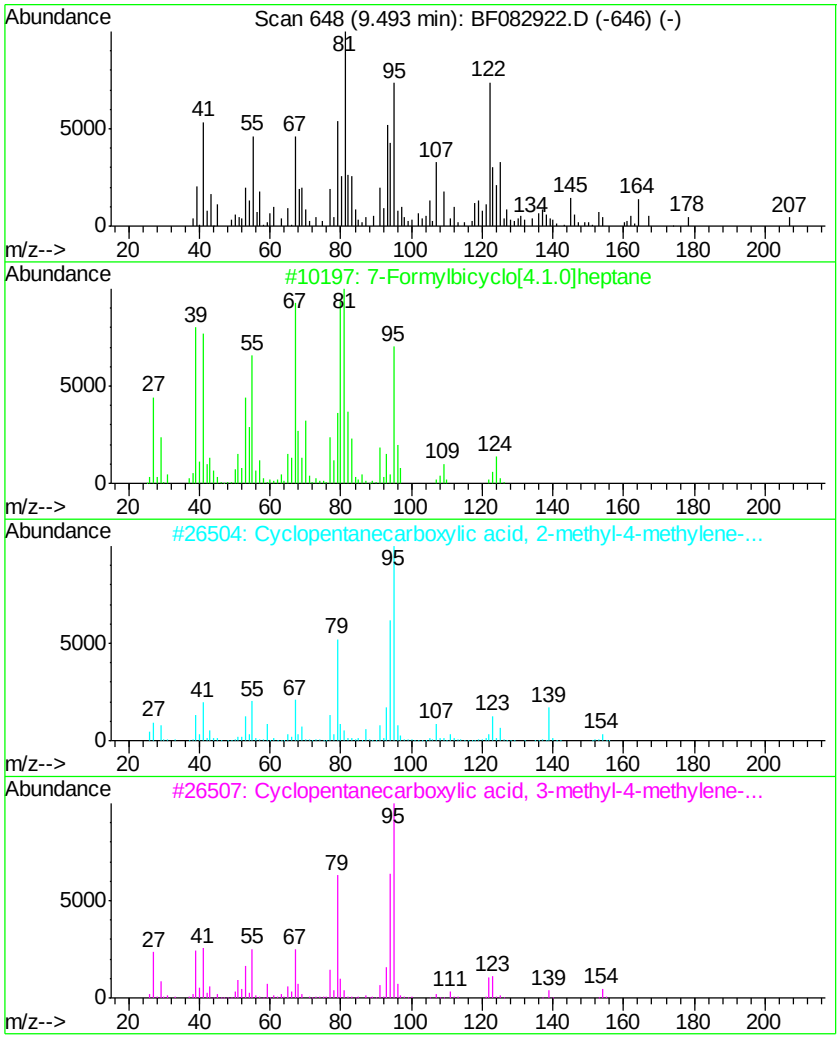
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

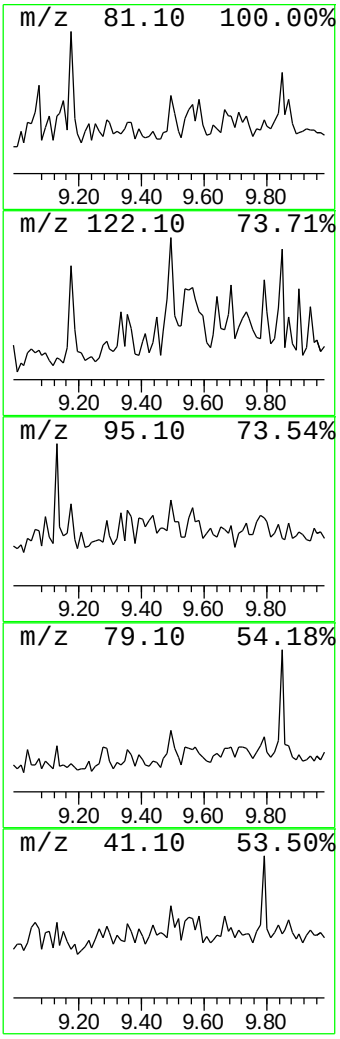
**********

Peak Number 9 unknown9.49 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.49 | 2.37 ng | 199182 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Formylbicyclo[4.1.0]heptane | 124 | C8H12O | 1000197-01-8 | 27 |
| 2 | Cyclopentanecarboxylic acid, 2-m... | 154 | C9H14O2 | 074764-24-2 | 25 |
| 3 | Cyclopentanecarboxylic acid, 3-m... | 154 | C9H14O2 | 087753-69-3 | 22 |
| 4 | Phenol, 2,4-dimethyl-, acetate | 164 | C10H12O2 | 000877-53-2 | 15 |
| 5 | (9-Oxabicyclo[3.3.1]non-6-en-3-y... | 154 | C9H14O2 | 1000191-02-8 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

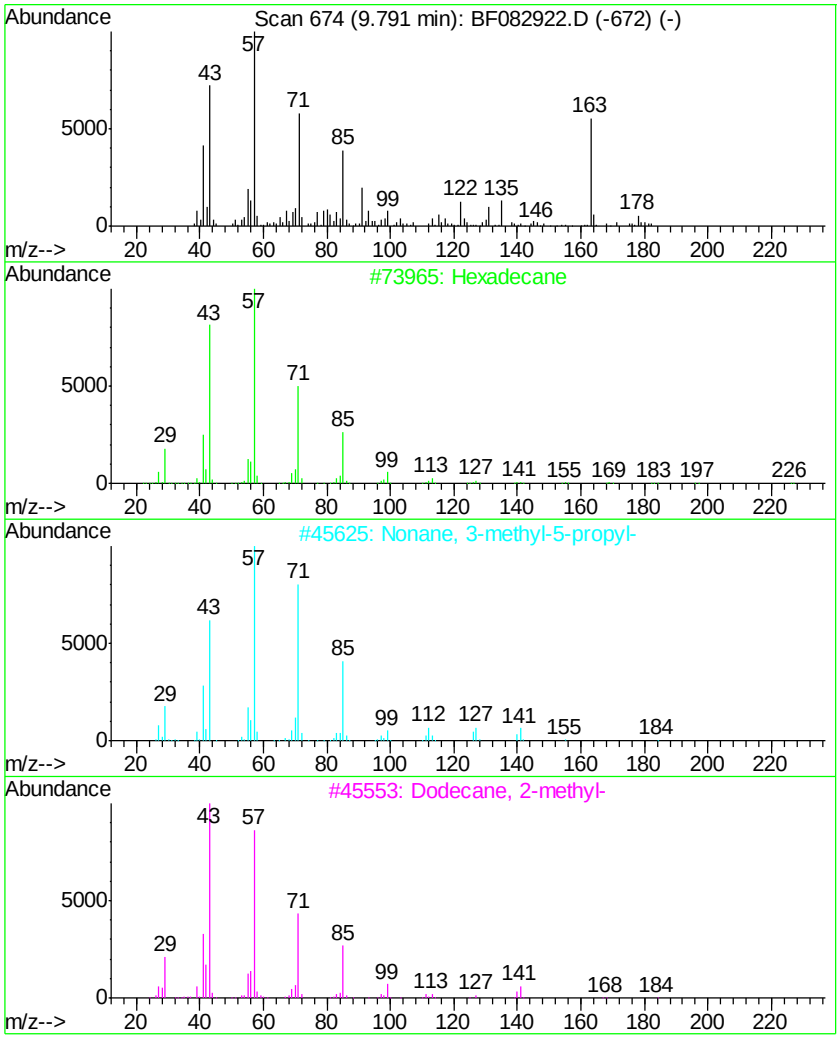
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

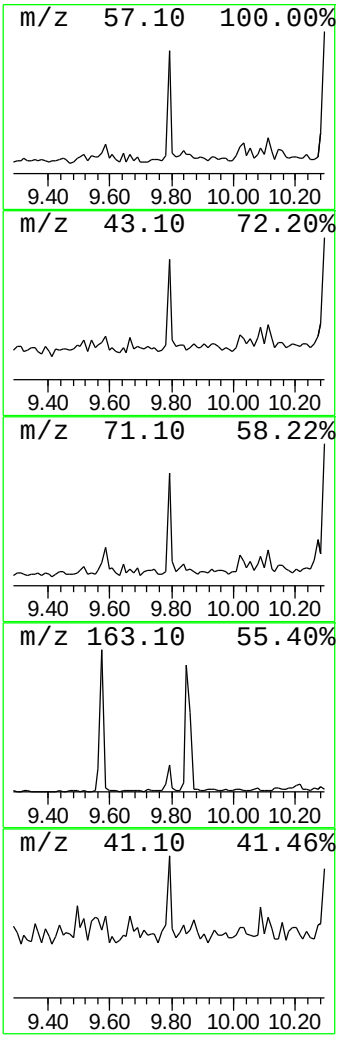
**********

Peak Number 10 unknown9.79 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.79 | 2.24 ng | 188640 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 46 |
| 2 | Nonane, 3-methyl-5-propyl- | 184 | C13H28 | 031081-18-2 | 43 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 43 |
| 4 | 1,3-Dimethylcyclopentanol | 114 | C7H14O | 019550-46-0 | 41 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 38 |



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Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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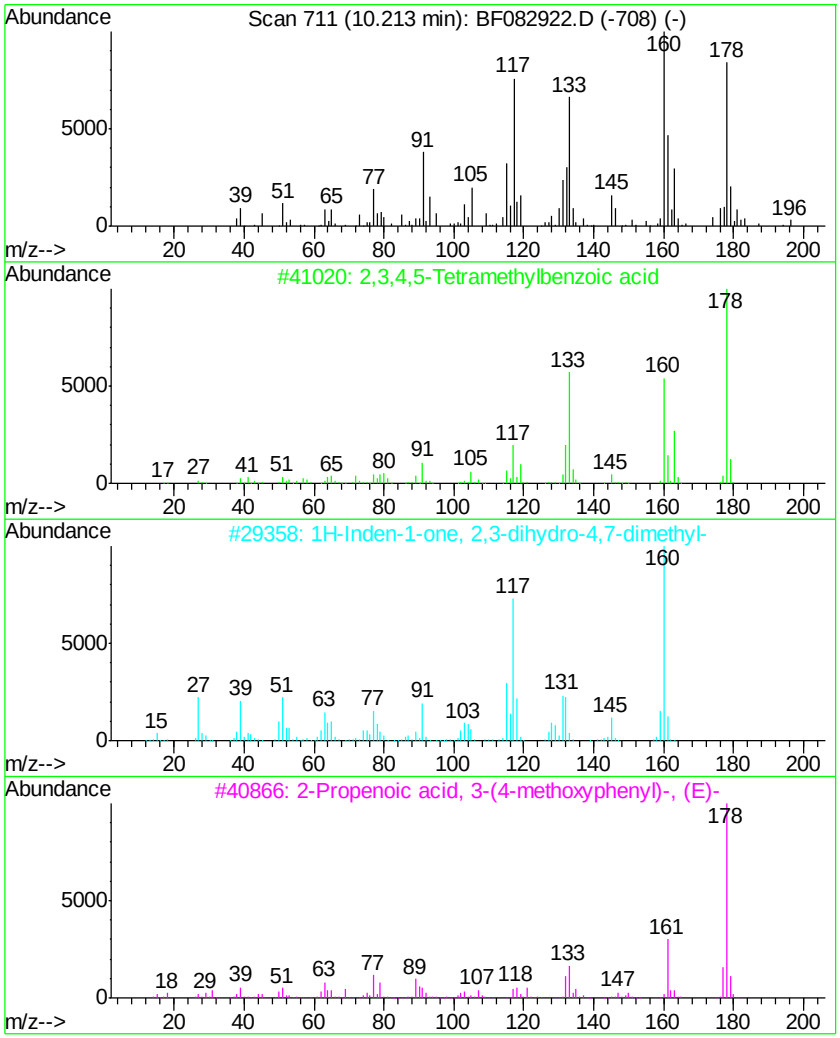
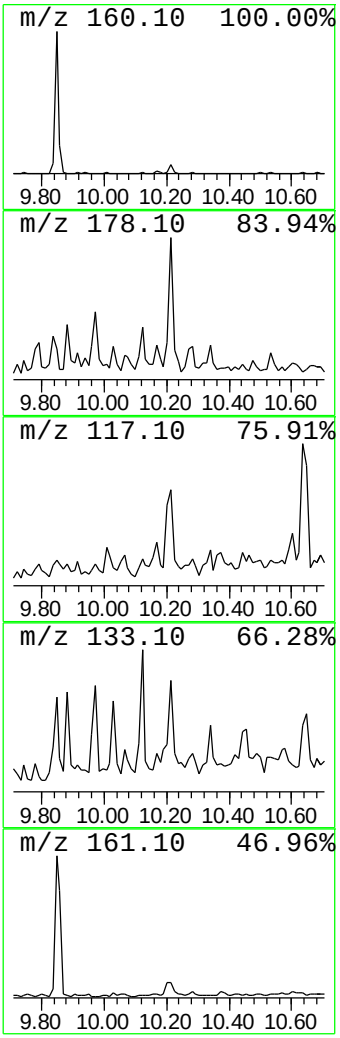
Peak Number 11 unknown10.21 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.21 | 2.33 ng | 195588 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,3,4,5-Tetramethylbenzoic acid | 178 | C11H14O2 | 002529-39-7 | 46 |
| 2 | 1H-Inden-1-one, 2,3-dihydro-4,7-... | 160 | C11H12O | 005037-60-5 | 45 |
| 3 | 2-Propenoic acid, 3-(4-methoxyph... | 178 | C10H10O3 | 000943-89-5 | 38 |
| 4 | Tetracyclo[5.3.1.1(2,6).0(4,9)]d... | 192 | C13H20O | 1000196-98-9 | 25 |
| 5 | Azulene, 1,2,3,3a-tetrahydro- | 132 | C10H12 | 033877-87-1 | 20 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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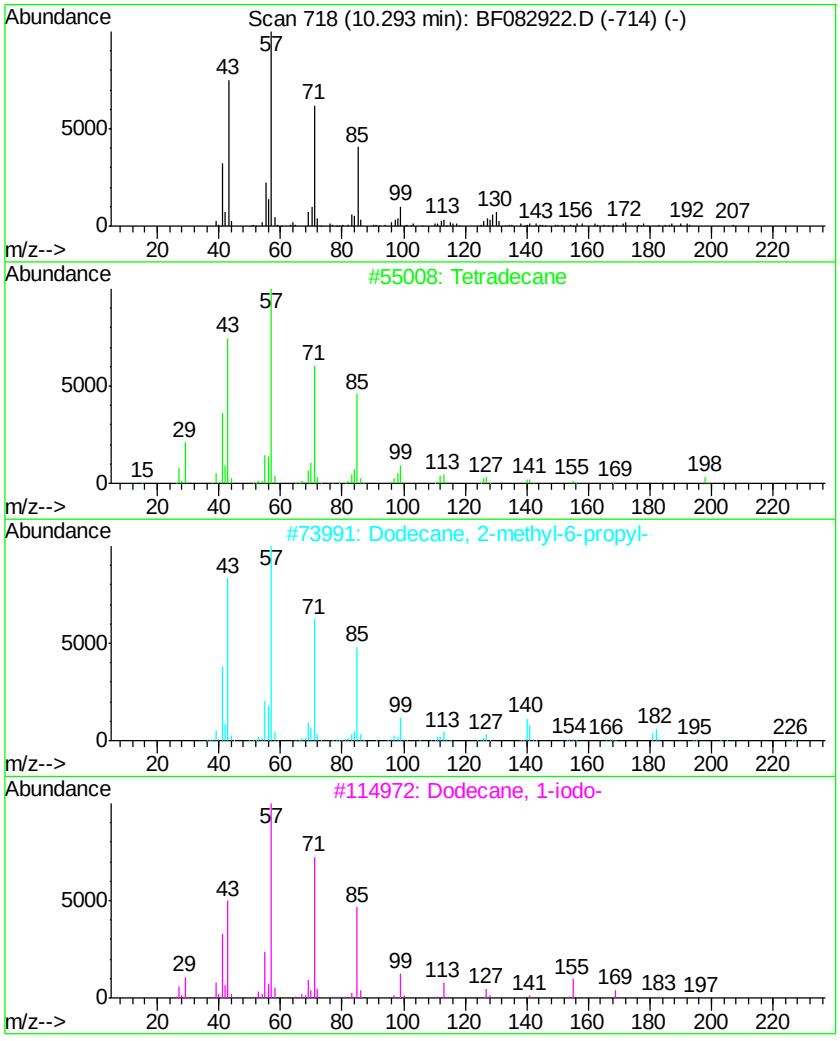
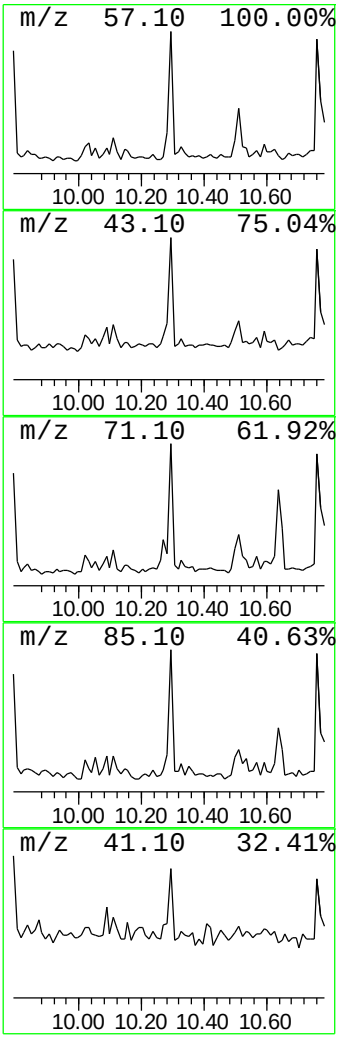
Peak Number 12 Tetradecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.29 | 2.99 ng | 251647 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 80 |
| 2 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 80 |
| 3 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 72 |
| 4 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 72 |
| 5 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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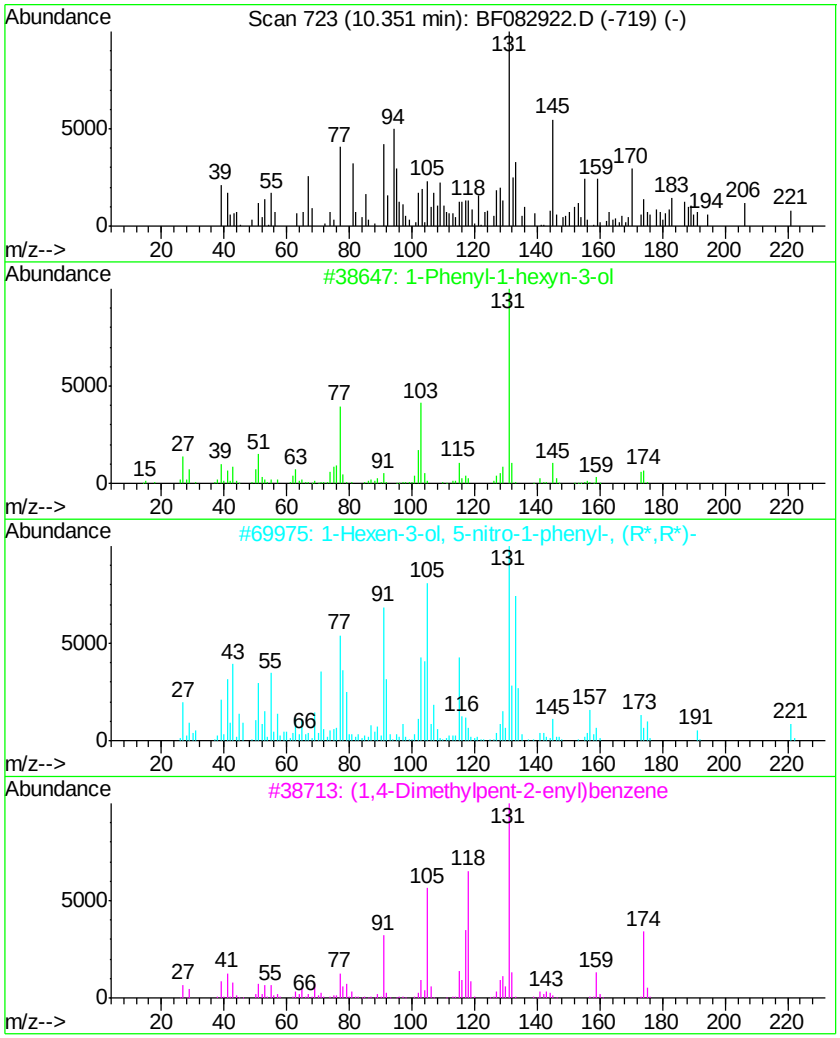
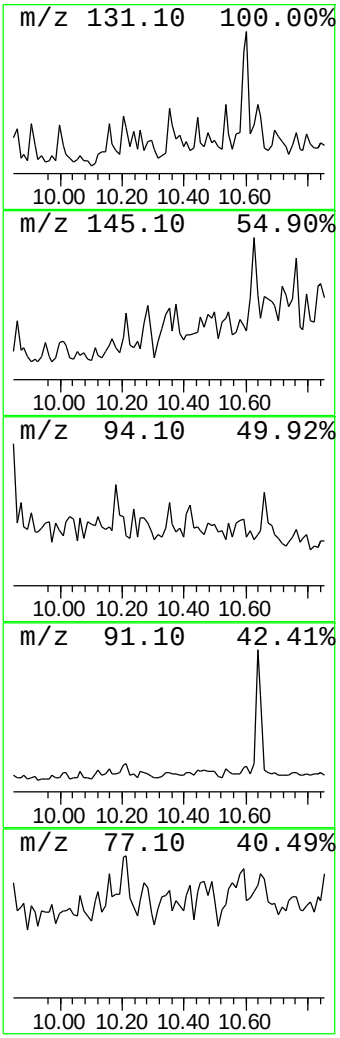
Peak Number 13 unknown10.35 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.35 | 2.07 ng | 173838 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-hexyn-3-ol | 174 | C12H14O | 001817-51-2 | 25 |
| 2 | 1-Hexen-3-ol, 5-nitro-1-phenyl-,... | 221 | C12H15NO3 | 103077-72-1 | 25 |
| 3 | (1,4-Dimethylpent-2-enyl)benzene | 174 | C13H18 | 1000184-97-9 | 22 |
| 4 | Cyclopropane, 1,1-dichloro-2,2,3... | 166 | C7H12Cl2 | 003141-45-5 | 22 |
| 5 | 4-Methyl-2H-benzopyrane | 146 | C10H10O | 021776-94-3 | 16 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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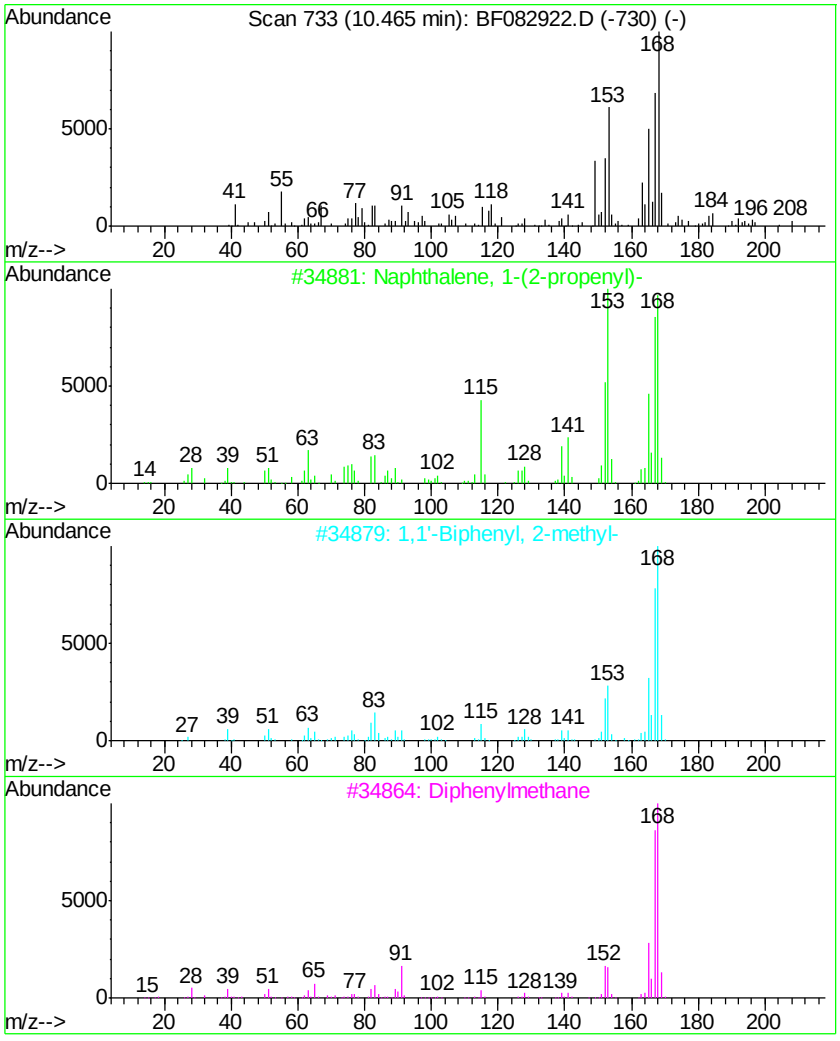
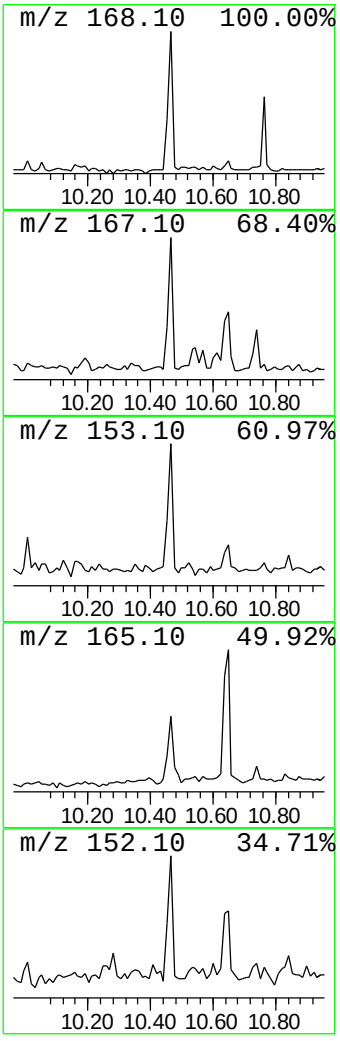
Peak Number 14 Naphthalene, 1-(2-propenyl)- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.46 | 2.33 ng | 196093 | Acenaphthene-d10 | 9.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-(2-propenyl)- | 168 | C13H12 | 002489-86-3 | 64 |
| 2 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 62 |
| 3 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 53 |
| 4 | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12 | 003710-23-4 | 50 |
| 5 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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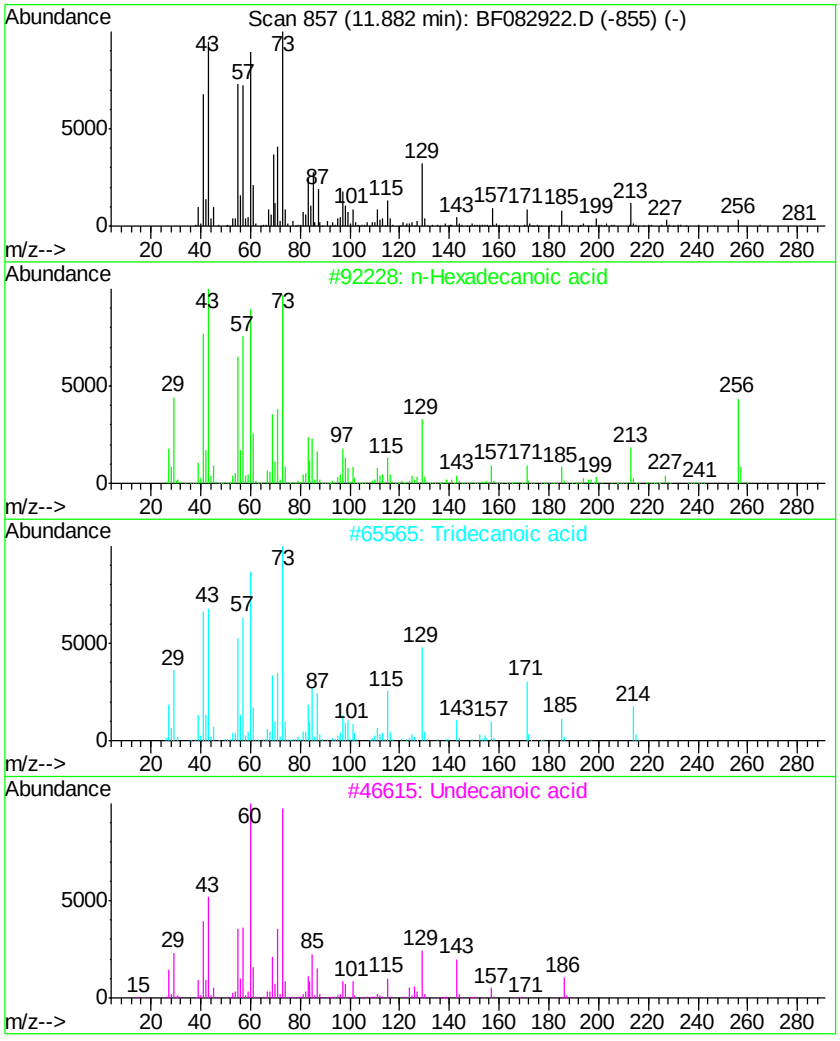
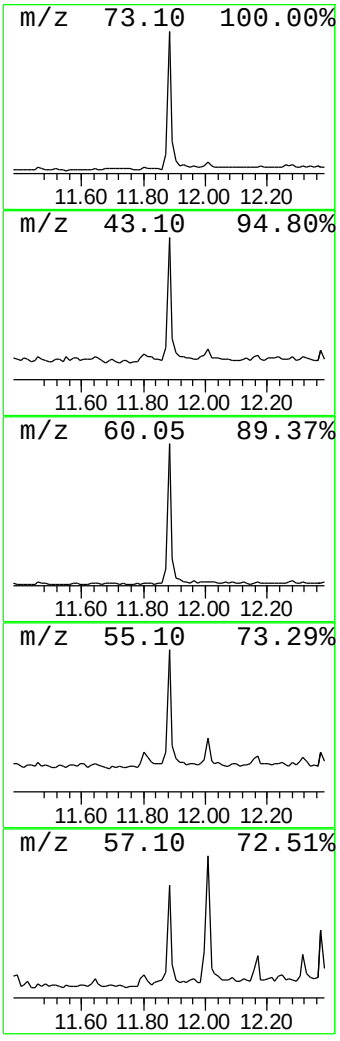
Peak Number 16 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.88 | 7.47 ng | 515922 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 3 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 86 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 56 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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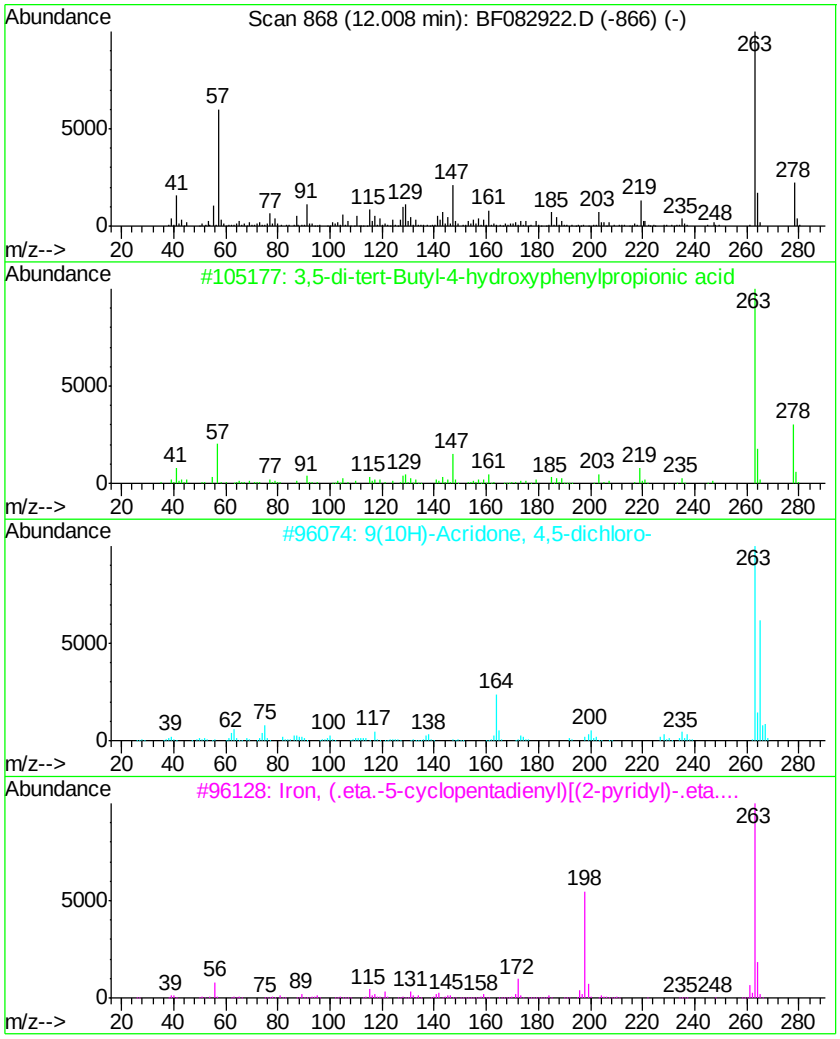
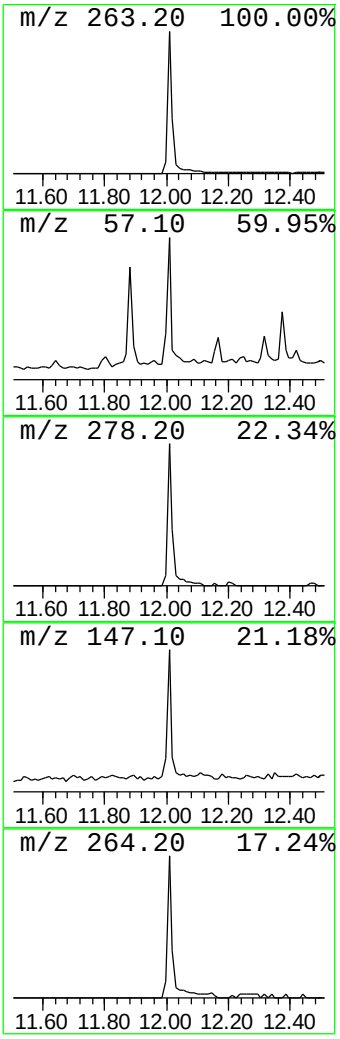
Peak Number 17 3,5-di-tert-Butyl-4-hydroxy... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.01 | 7.33 ng | 506199 | Phenanthrene-d10 | 11.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-di-tert-Butyl-4-hydroxyphenyl... | 278 | C17H26O3 | 020170-32-5 | 95 |
| 2 | 9(10H)-Acridone, 4,5-dichloro- | 263 | C13H7Cl2NO | 1000163-26-5 | 43 |
| 3 | Iron, (.eta.-5-cyclopentadienyl)... | 263 | C15H13FeN | 1000164-28-2 | 43 |
| 4 | Benzoic acid, 3,5-bis(1,1-dimeth... | 278 | C17H26O3 | 001620-64-0 | 38 |
| 5 | Perhydro-3-(4,5,alpha-trimethoxy... | 309 | C14H15NO7 | 093005-00-6 | 37 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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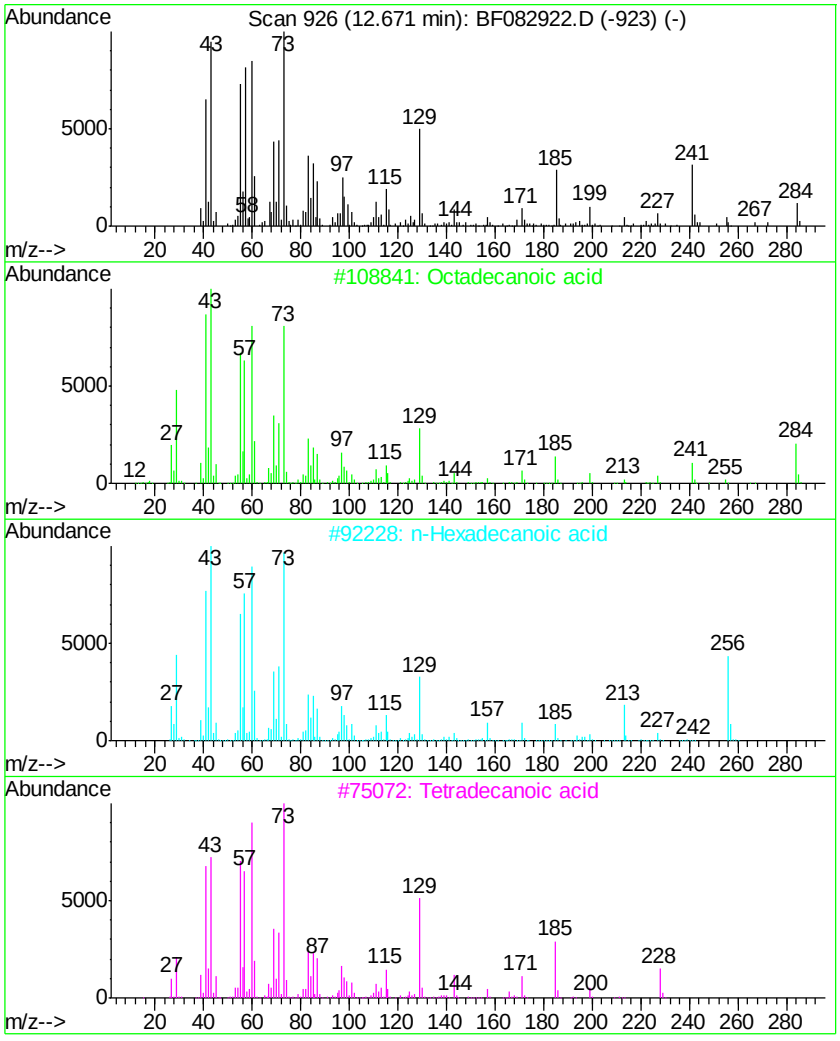
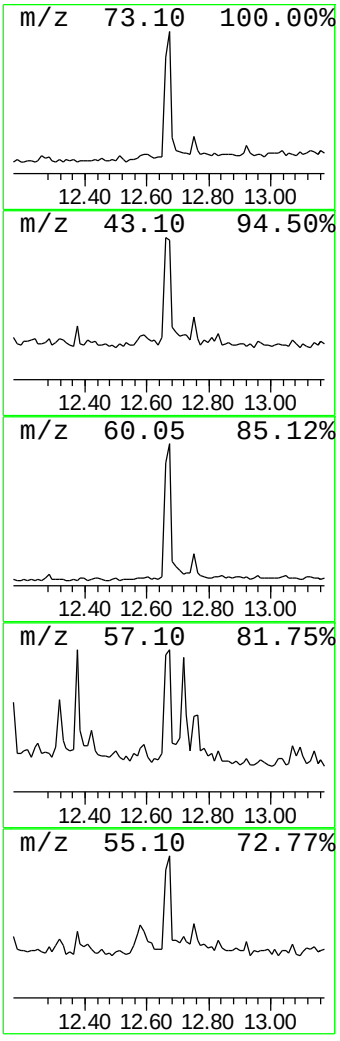
Peak Number 18 Octadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.67 | 8.43 ng | 426515 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 98 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |
| 5 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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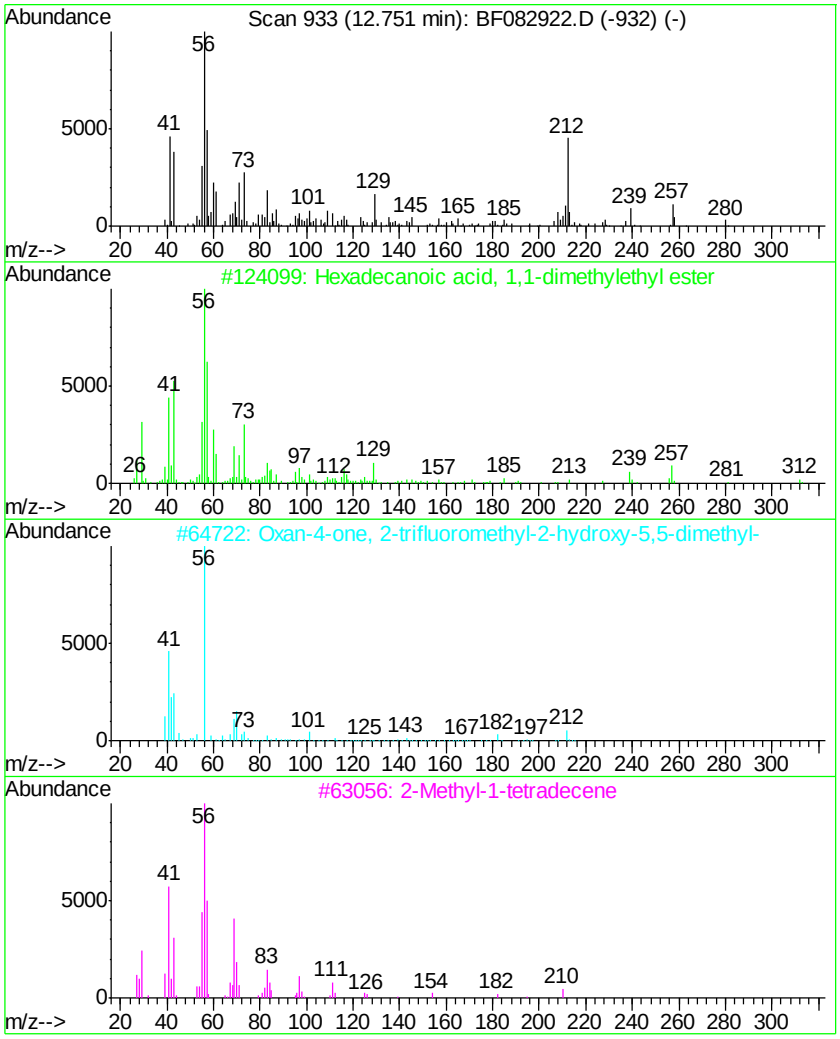
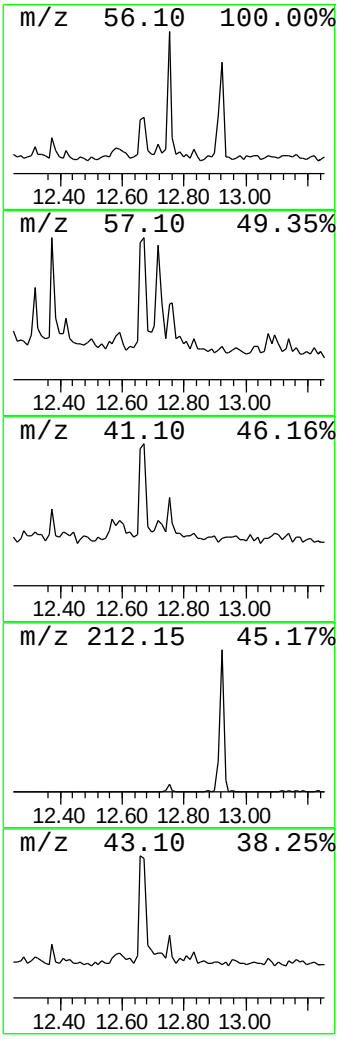
Peak Number 19 Hexadecanoic acid, 1,1-dime... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.75 | 2.71 ng | 137100 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 58 |
| 2 | Oxan-4-one, 2-trifluoromethyl-2-... | 212 | C8H11F3O3 | 212615-80-0 | 38 |
| 3 | 2-Methyl-1-tetradecene | 210 | C15H30 | 052254-38-3 | 30 |
| 4 | 2,2-Dimethyl-1,3-butanediol | 118 | C6H14O2 | 000076-35-7 | 27 |
| 5 | Cyclopentanone, 2,2,5,5-tetramet... | 140 | C9H16O | 004541-35-9 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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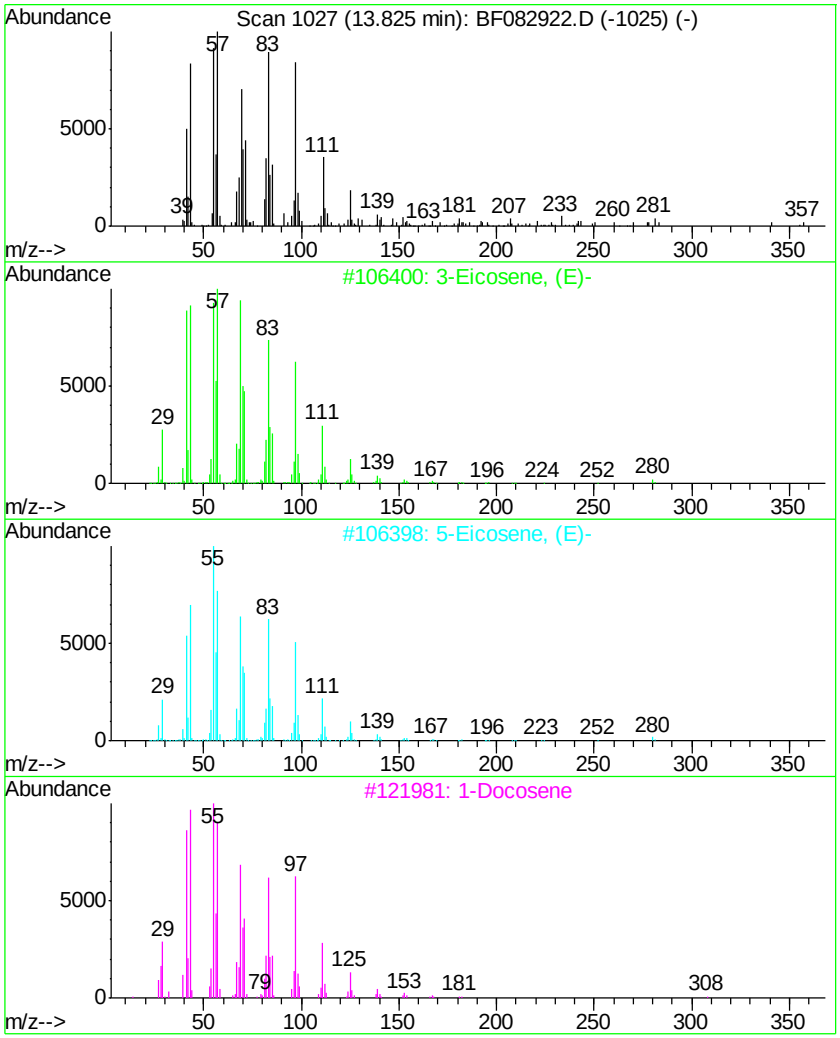
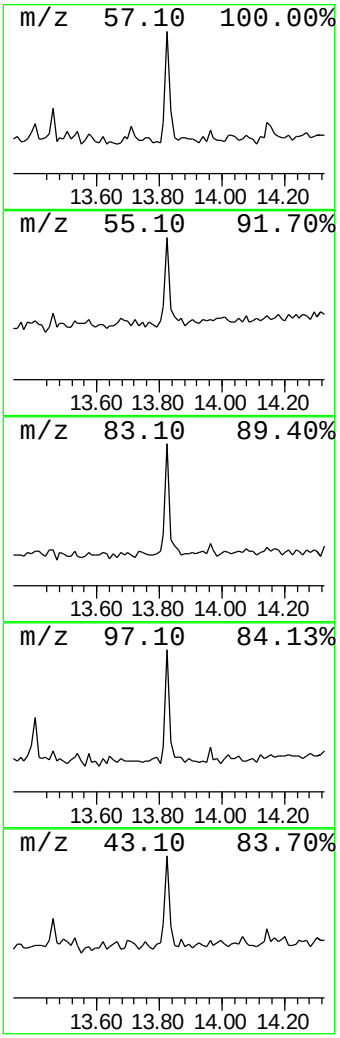
Peak Number 20 3-Eicosene, (E)- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.83 | 3.21 ng | 162311 | Chrysene-d12 | 13.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 91 |
| 2 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 91 |
| 3 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 91 |
| 4 | 1-Tetracosanol | 354 | C24H50O | 000506-51-4 | 83 |
| 5 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 80 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111315\
Data File : BF082922.D
Acq On : 14 Nov 2015 4:16
Operator : UM/IZ
Sample : G4382-05
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** URS MW-11

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110715.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 |
| 2-Pentanone, 4-hy... | 4.98 | 15.4 | ng | 940401 | 1 | 6.81 | 1220750 | 20.0 |
| unknown6.59 | 6.59 | 72.5 | ng | 4425530 | 1 | 6.81 | 1220750 | 20.0 |
| 1-Hexanol, 2-ethyl- | 6.89 | 2.9 | ng | 175703 | 1 | 6.81 | 1220750 | 20.0 |
| unknown8.03 | 8.03 | 3.1 | ng | 239302 | 2 | 8.10 | 1535470 | 20.0 |
| 1-Adamantanol | 8.62 | 2.8 | ng | 216528 | 2 | 8.10 | 1535470 | 20.0 |
| unknown8.83 | 8.83 | 4.5 | ng | 343311 | 2 | 8.10 | 1535470 | 20.0 |
| unknown9.06 | 9.06 | 2.4 | ng | 205202 | 3 | 9.85 | 1680770 | 20.0 |
| unknown9.49 | 9.49 | 2.4 | ng | 199182 | 3 | 9.85 | 1680770 | 20.0 |
| unknown9.79 | 9.79 | 2.2 | ng | 188640 | 3 | 9.85 | 1680770 | 20.0 |
| unknown10.21 | 10.21 | 2.3 | ng | 195588 | 3 | 9.85 | 1680770 | 20.0 |
| Tetradecane | 10.29 | 3.0 | ng | 251647 | 3 | 9.85 | 1680770 | 20.0 |
| unknown10.35 | 10.35 | 2.1 | ng | 173838 | 3 | 9.85 | 1680770 | 20.0 |
| Naphthalene, 1-(2... | 10.46 | 2.3 | ng | 196093 | 3 | 9.85 | 1680770 | 20.0 |
| n-Hexadecanoic acid | 11.88 | 7.5 | ng | 515922 | 4 | 11.33 | 1381620 | 20.0 |
| 3,5-di-tert-Butyl... | 12.01 | 7.3 | ng | 506199 | 4 | 11.33 | 1381620 | 20.0 |
| Octadecanoic acid | 12.67 | 8.4 | ng | 426515 | 5 | 13.97 | 1012280 | 20.0 |
| Hexadecanoic acid... | 12.75 | 2.7 | ng | 137100 | 5 | 13.97 | 1012280 | 20.0 |
| 3-Eicosene, (E)- | 13.83 | 3.2 | ng | 162311 | 5 | 13.97 | 1012280 | 20.0 |