LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

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-BF063016.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 | 1.667 | 5 | 7 | 15 | rVB | 88991 | 190686 | 8.97% | 1.211% |
| 2 | 1.781 | 15 | 17 | 63 | rVB | 1213663 | 2126111 | 100.00% | 13.497% |
| 3 | 2.798 | 104 | 106 | 120 | rVB | 21487 | 43505 | 2.05% | 0.276% |
| 4 | 4.833 | 281 | 284 | 288 | rBV | 93872 | 152670 | 7.18% | 0.969% |
| 5 | 5.279 | 320 | 323 | 325 | rBV | 1356606 | 1428047 | 67.17% | 9.066% |
| 6 | 6.330 | 412 | 415 | 418 | rVB | 989715 | 1427509 | 67.14% | 9.062% |
| 7 | 6.456 | 423 | 426 | 428 | rBV | 1579950 | 1509575 | 71.00% | 9.583% |
| 8 | 6.684 | 444 | 446 | 448 | rBV | 424116 | 345817 | 16.27% | 2.195% |
| 9 | 6.844 | 457 | 460 | 462 | rVB | 1029458 | 1020503 | 48.00% | 6.479% |
| 10 | 7.256 | 493 | 496 | 498 | rBV | 848992 | 948907 | 44.63% | 6.024% |
| 11 | 7.462 | 513 | 514 | 516 | rBV2 | 20183 | 23236 | 1.09% | 0.148% |
| 12 | 7.565 | 521 | 523 | 524 | rVV | 25945 | 25396 | 1.19% | 0.161% |
| 13 | 7.907 | 546 | 553 | 556 | rBV5 | 17521 | 49220 | 2.32% | 0.312% |
| 14 | 7.965 | 556 | 558 | 561 | rVB | 325106 | 413308 | 19.44% | 2.624% |
| 15 | 8.022 | 561 | 563 | 564 | rBV | 26804 | 29734 | 1.40% | 0.189% |
| 16 | 8.090 | 567 | 569 | 573 | rVV5 | 10127 | 28130 | 1.32% | 0.179% |
| 17 | 8.205 | 576 | 579 | 580 | rBV | 24229 | 29525 | 1.39% | 0.187% |
| 18 | 8.227 | 580 | 581 | 583 | rVV2 | 20035 | 27267 | 1.28% | 0.173% |
| 19 | 8.262 | 583 | 584 | 586 | rVB | 20157 | 26072 | 1.23% | 0.166% |
| 20 | 8.433 | 596 | 599 | 601 | rVB | 43856 | 69018 | 3.25% | 0.438% |
| 21 | 8.513 | 603 | 606 | 609 | rBV5 | 20420 | 49185 | 2.31% | 0.312% |
| 22 | 8.605 | 611 | 614 | 616 | rBV2 | 24982 | 48645 | 2.29% | 0.309% |
| 23 | 8.753 | 625 | 627 | 630 | rVB2 | 20021 | 30770 | 1.45% | 0.195% |
| 24 | 8.856 | 633 | 636 | 639 | rBV5 | 15278 | 40842 | 1.92% | 0.259% |
| 25 | 8.925 | 641 | 642 | 643 | rBV | 26702 | 21531 | 1.01% | 0.137% |
| 26 | 8.959 | 643 | 645 | 646 | rVV2 | 32437 | 28404 | 1.34% | 0.180% |
| 27 | 8.993 | 646 | 648 | 650 | rVB2 | 23562 | 27142 | 1.28% | 0.172% |
| 28 | 9.050 | 650 | 653 | 655 | rBV | 1361666 | 1284968 | 60.44% | 8.158% |
| 29 | 9.119 | 657 | 659 | 662 | rBV3 | 67595 | 87543 | 4.12% | 0.556% |
| 30 | 9.176 | 662 | 664 | 667 | rBV3 | 21607 | 48859 | 2.30% | 0.310% |
| 31 | 9.348 | 675 | 679 | 680 | rBV3 | 17342 | 38100 | 1.79% | 0.242% |
| 32 | 9.382 | 680 | 682 | 685 | rVB2 | 26094 | 44591 | 2.10% | 0.283% |
| 33 | 9.439 | 685 | 687 | 689 | rBV | 210488 | 216092 | 10.16% | 1.372% |
| 34 | 9.485 | 689 | 691 | 693 | rVV2 | 28553 | 41447 | 1.95% | 0.263% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.542 | 694 | 696 | 697 | rVB2 | 30659 | 33685 | 1.58% | 0.214% |
| 36 | 9.610 | 698 | 702 | 705 | rVB4 | 48431 | 129674 | 6.10% | 0.823% |
| 37 | 9.668 | 705 | 707 | 708 | rBV | 29257 | 28806 | 1.35% | 0.183% |
| 38 | 9.713 | 708 | 711 | 713 | rBV | 410832 | 461668 | 21.71% | 2.931% |
| 39 | 9.759 | 713 | 715 | 718 | rVB2 | 35803 | 47918 | 2.25% | 0.304% |
| 40 | 9.885 | 724 | 726 | 729 | rBV3 | 21397 | 39106 | 1.84% | 0.248% |
| 41 | 9.942 | 729 | 731 | 733 | rVB2 | 19314 | 26383 | 1.24% | 0.167% |
| 42 | 10.056 | 738 | 741 | 742 | rVV3 | 29803 | 41505 | 1.95% | 0.263% |
| 43 | 10.091 | 742 | 744 | 745 | rVV2 | 18665 | 21631 | 1.02% | 0.137% |
| 44 | 10.125 | 745 | 747 | 749 | rVB2 | 81310 | 77525 | 3.65% | 0.492% |
| 45 | 10.171 | 749 | 751 | 756 | rBV5 | 24510 | 67570 | 3.18% | 0.429% |
| 46 | 10.285 | 758 | 761 | 762 | rBV3 | 12633 | 24385 | 1.15% | 0.155% |
| 47 | 10.502 | 778 | 780 | 782 | rBV | 633663 | 620030 | 29.16% | 3.936% |
| 48 | 10.639 | 790 | 792 | 795 | rVB | 23435 | 44666 | 2.10% | 0.284% |
| 49 | 11.085 | 829 | 831 | 835 | rVB2 | 24062 | 46915 | 2.21% | 0.298% |
| 50 | 11.188 | 838 | 840 | 843 | rVB | 374818 | 326437 | 15.35% | 2.072% |
| 51 | 11.508 | 865 | 868 | 870 | rVB | 22661 | 31190 | 1.47% | 0.198% |
| 52 | 11.736 | 887 | 888 | 892 | rVV3 | 25599 | 30895 | 1.45% | 0.196% |
| 53 | 11.794 | 892 | 893 | 898 | rVB5 | 12752 | 21836 | 1.03% | 0.139% |
| 54 | 12.388 | 944 | 945 | 948 | rVB3 | 22886 | 23915 | 1.12% | 0.152% |
| 55 | 12.514 | 954 | 956 | 961 | rBV3 | 13918 | 32637 | 1.54% | 0.207% |
| 56 | 12.616 | 962 | 965 | 968 | rVB | 26174 | 29418 | 1.38% | 0.187% |
| 57 | 12.776 | 976 | 979 | 981 | rVB | 596422 | 763248 | 35.90% | 4.845% |
| 58 | 13.679 | 1056 | 1058 | 1064 | rBV | 53030 | 69670 | 3.28% | 0.442% |
| 59 | 13.805 | 1067 | 1069 | 1072 | rBV | 302436 | 369353 | 17.37% | 2.345% |
| 60 | 14.320 | 1112 | 1114 | 1118 | rBV4 | 13767 | 36634 | 1.72% | 0.233% |
| 61 | 14.457 | 1124 | 1126 | 1128 | rBV | 26201 | 24372 | 1.15% | 0.155% |
| 62 | 14.800 | 1154 | 1156 | 1160 | rBV2 | 18210 | 38434 | 1.81% | 0.244% |
| 63 | 15.062 | 1177 | 1179 | 1181 | rBV | 24562 | 23680 | 1.11% | 0.150% |
| 64 | 15.177 | 1186 | 1189 | 1194 | rVB | 215397 | 260336 | 12.24% | 1.653% |
| 65 | 16.171 | 1274 | 1276 | 1281 | rVB | 20561 | 36041 | 1.70% | 0.229% |

Sum of corrected areas: 15751918

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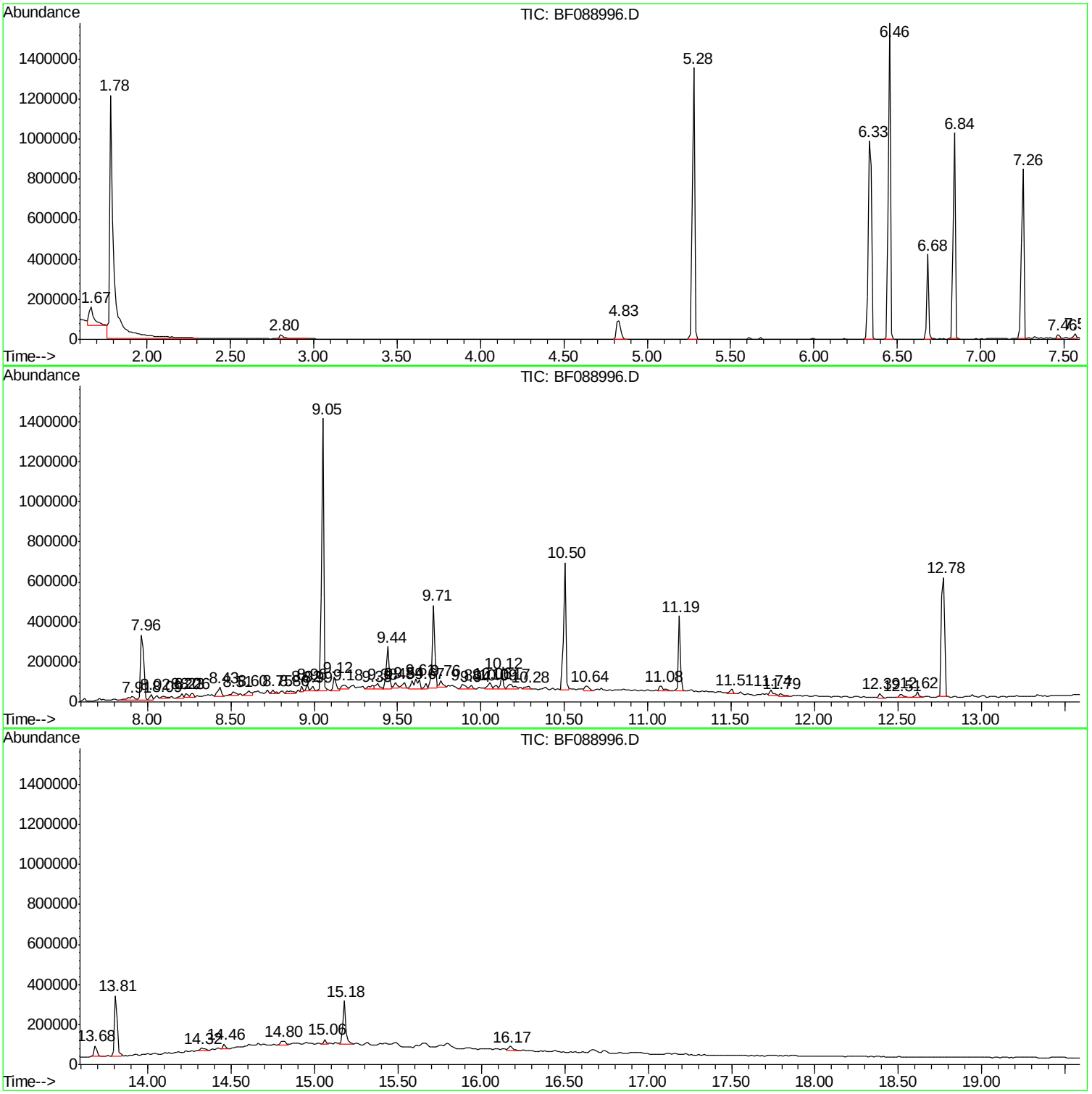
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

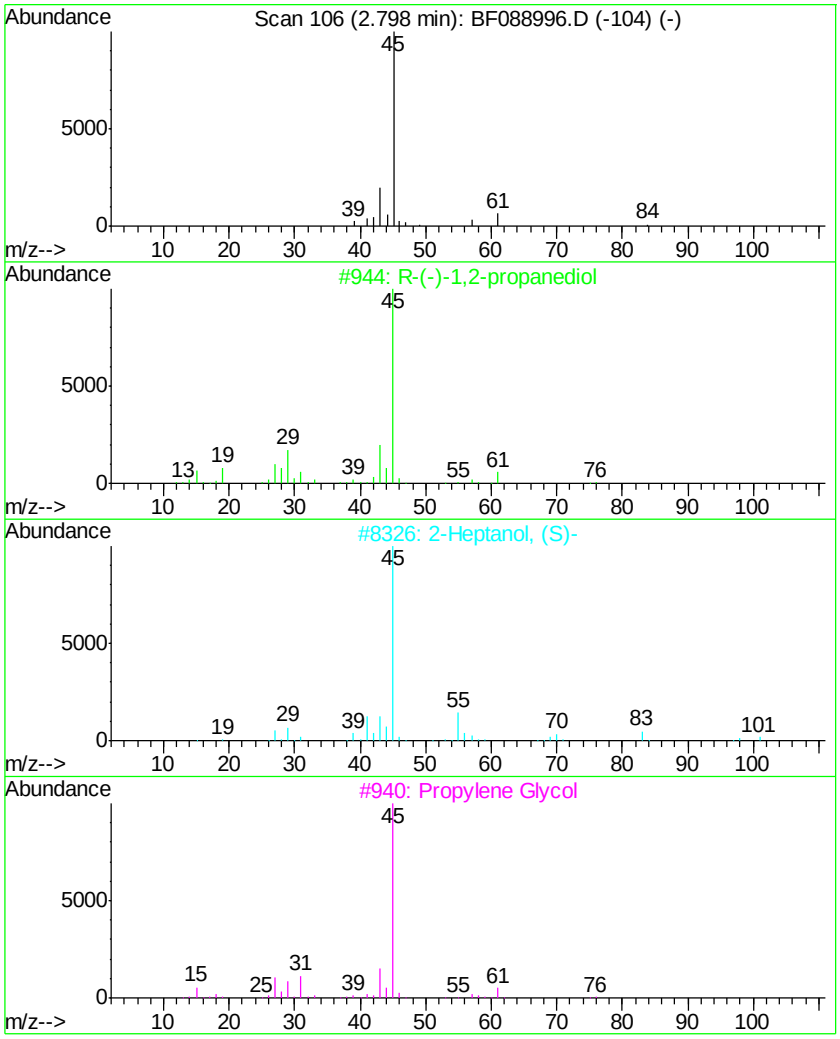
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

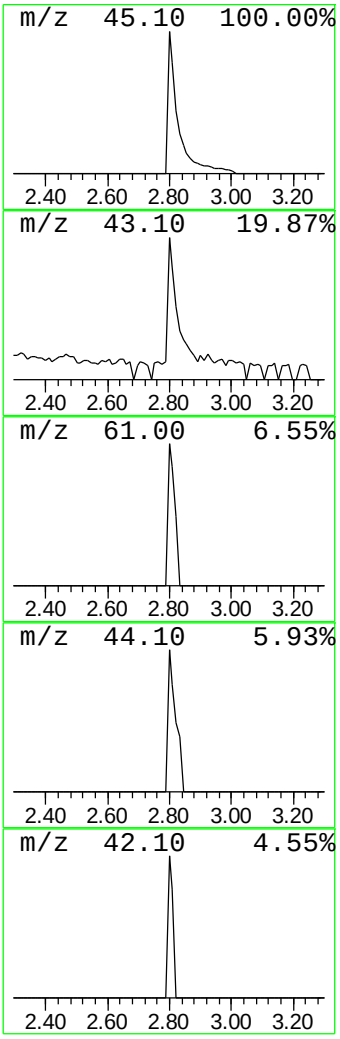
**********

Peak Number 3 unknown2.80 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.80 | 2.52 ng | 43505 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | R-(-)-1,2-propanediol | 76 | C3H8O2 | 004254-14-2 | 43 |
| 2 | 2-Heptanol, (S)- | 116 | C7H16O | 006033-23-4 | 9 |
| 3 | Propylene Glycol | 76 | C3H8O2 | 000057-55-6 | 9 |
| 4 | Butanenitrile, 2-(methoxymethoxy) | 129 | C6H11NO2 | 1000196-86-5 | 9 |
| 5 | 2-Heptanol | 116 | C7H16O | 000543-49-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

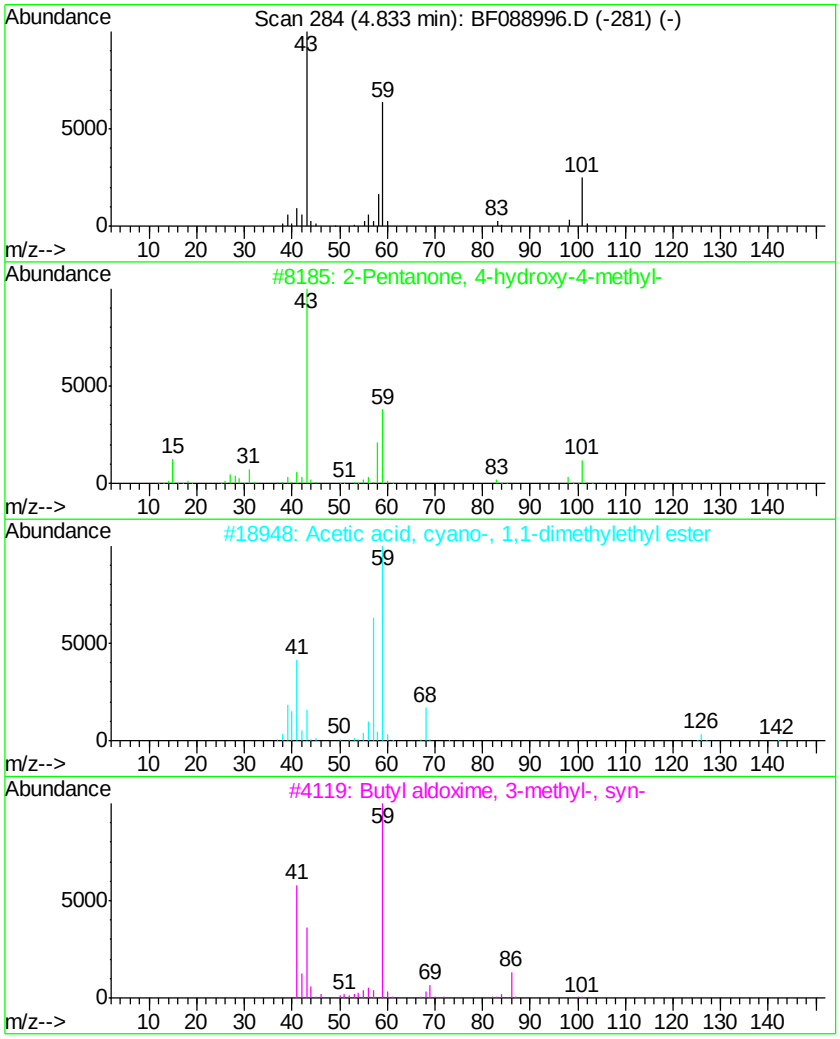
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

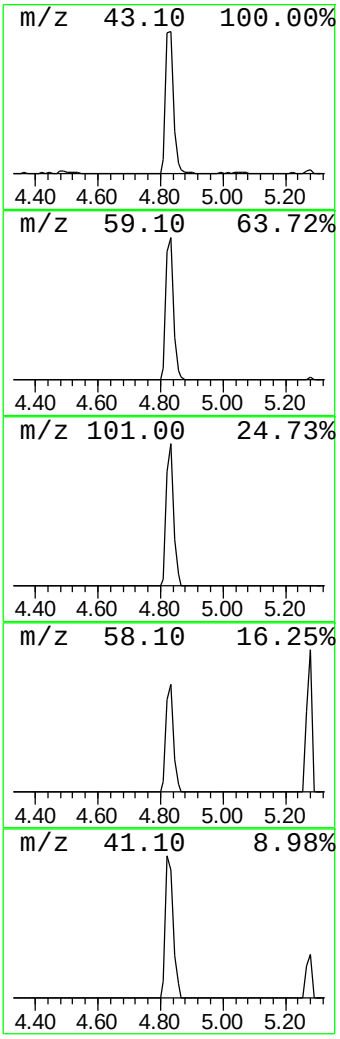
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.83 | 8.83 ng | 152670 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 17 |
| 4 | Acetone | 58 | C3H6O | 000067-64-1 | 10 |
| 5 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

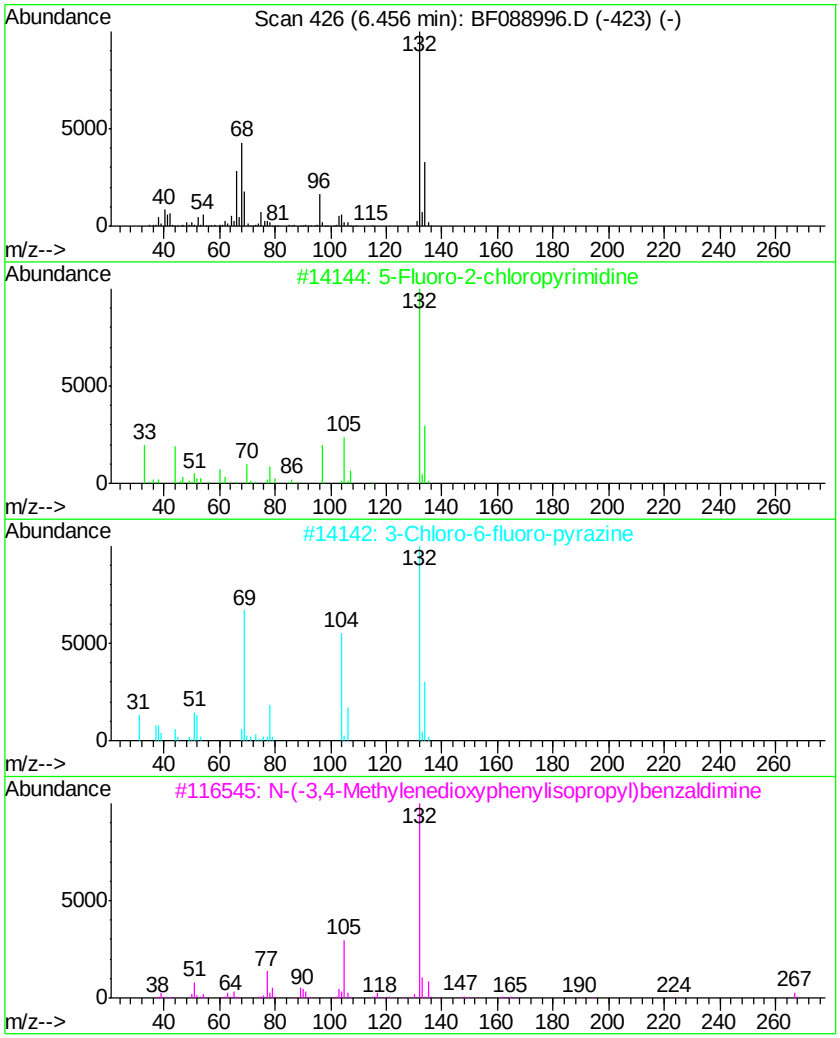
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

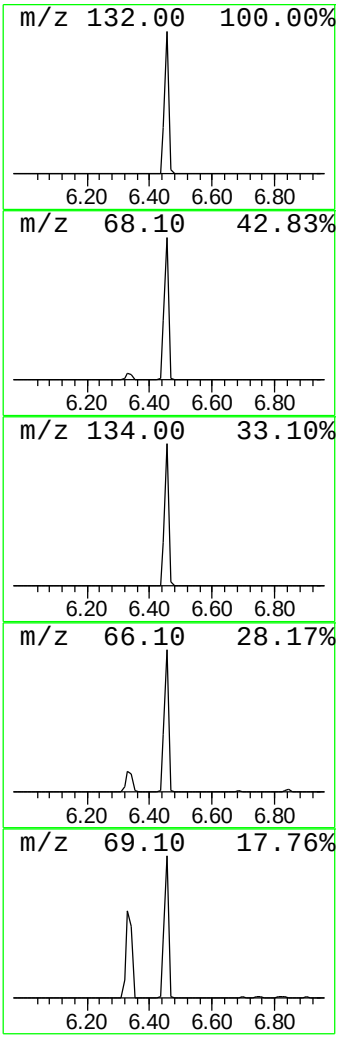
**********

Peak Number 5 unknown6.46 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.46 | 87.30 ng | 1509580 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 3 | N-(-3,4-Methylenedioxyphenylisop... | 267 | C17H17NO2 | 1000378-96-6 | 10 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 1,2,4-Trifluorobenzene | 132 | C6H3F3 | 000367-23-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

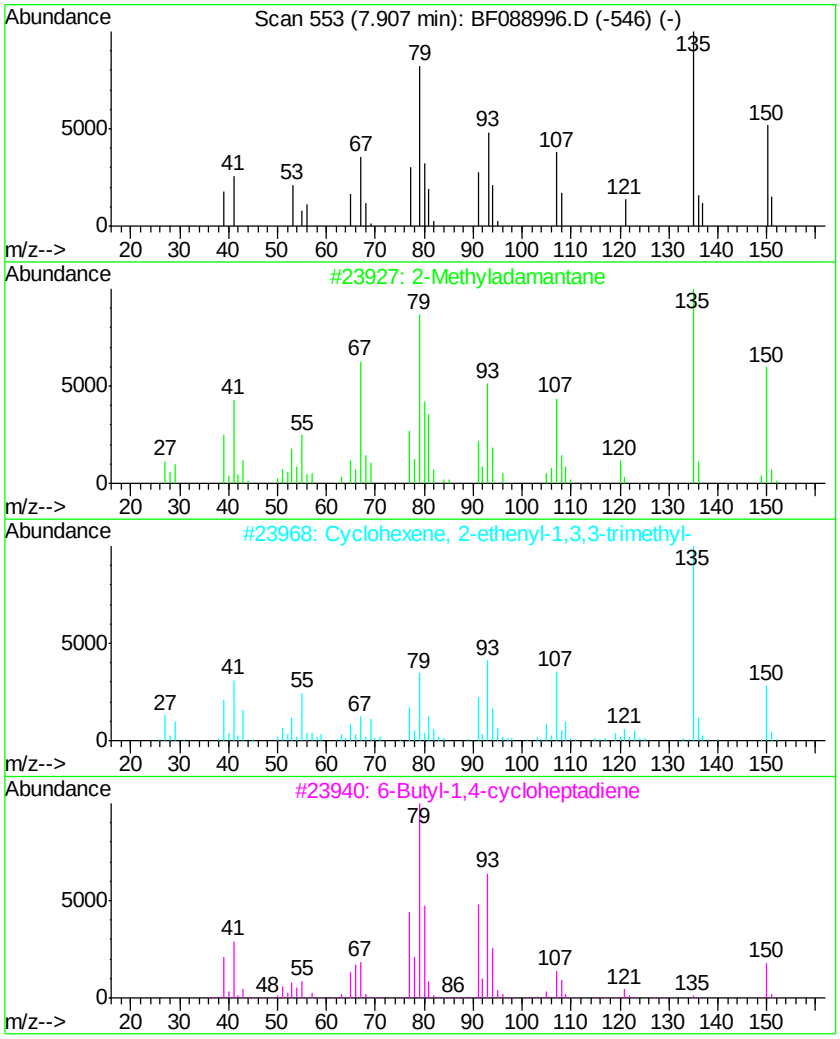
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

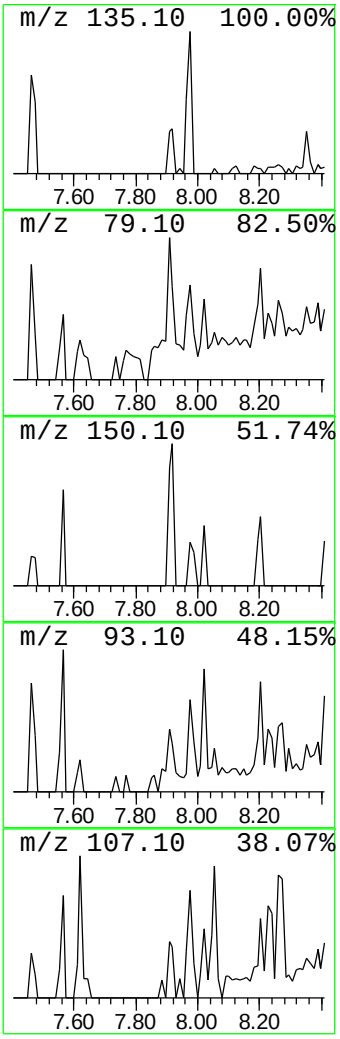
**********

Peak Number 7 2-Methyladamantane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.91 | 2.38 ng | 49220 | Naphthalene-d8 | 7.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyladamantane | 150 | C11H18 | 000700-56-1 | 94 |
| 2 | Cyclohexene, 2-ethenyl-1,3,3-tri... | 150 | C11H18 | 005293-90-3 | 90 |
| 3 | 6-Butyl-1,4-cycloheptadiene | 150 | C11H18 | 022735-58-6 | 53 |
| 4 | N-(3-Hydroxy-2,6-dimethyl-4-pyri... | 300 | C18H24N2O2 | 1000260-99-3 | 50 |
| 5 | Cyclohexanone, 2-(2-butynyl)- | 150 | C10H14O | 054166-48-2 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

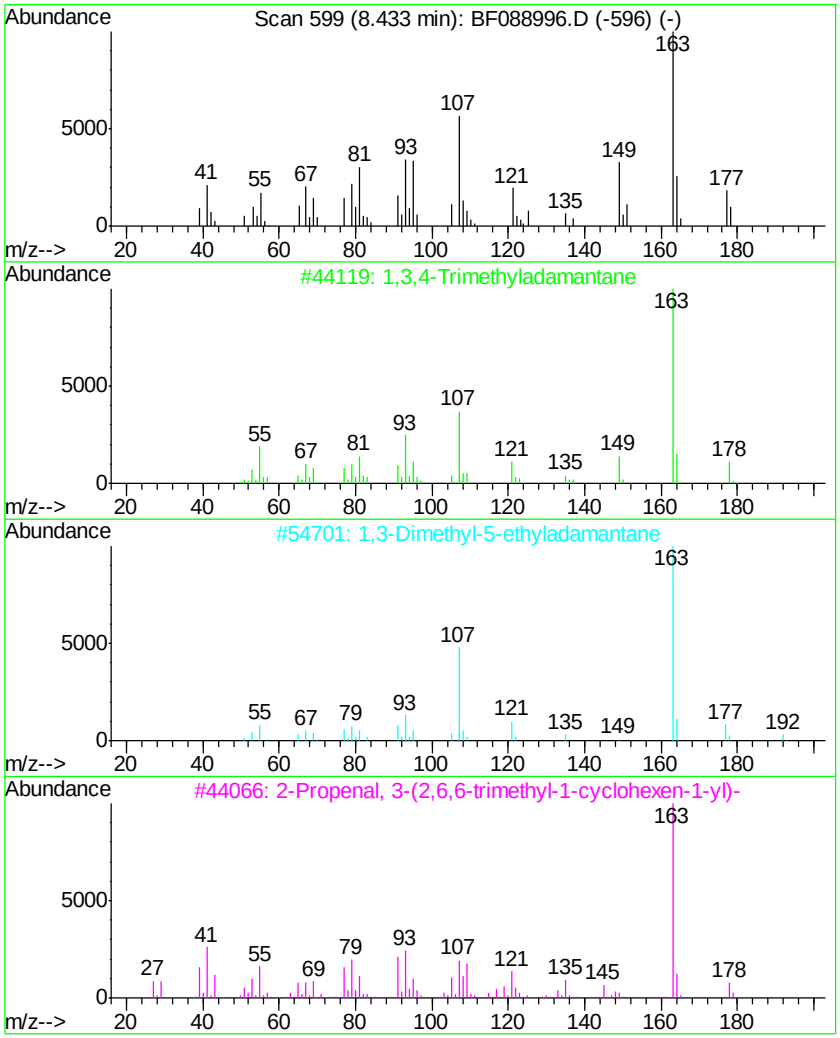
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

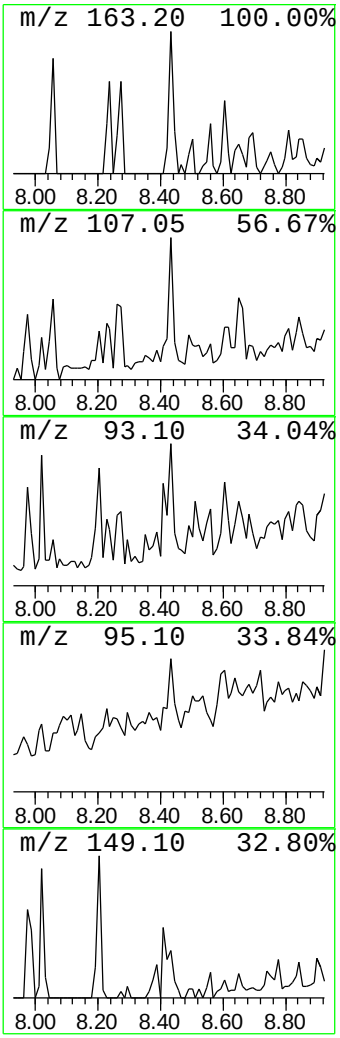
**********

Peak Number 8 1,3,4-Trimethyladamantane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.43 | 3.34 ng | 69018 | Naphthalene-d8 | 7.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3,4-Trimethyladamantane | 178 | C13H22 | 1000214-98-3 | 76 |
| 2 | 1,3-Dimethyl-5-ethyladamantane | 192 | C14H24 | 001687-35-0 | 53 |
| 3 | 2-Propenal, 3-(2,6,6-trimethyl-1... | 178 | C12H18O | 004951-40-0 | 43 |
| 4 | Diethylphosphinothioic azide | 163 | C4H10N3PS | 058347-14-1 | 27 |
| 5 | 4-[[3-(3,5-Dimethyl-pyrazol-1-yl... | 326 | C16H18N6O2 | 1000296-14-6 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

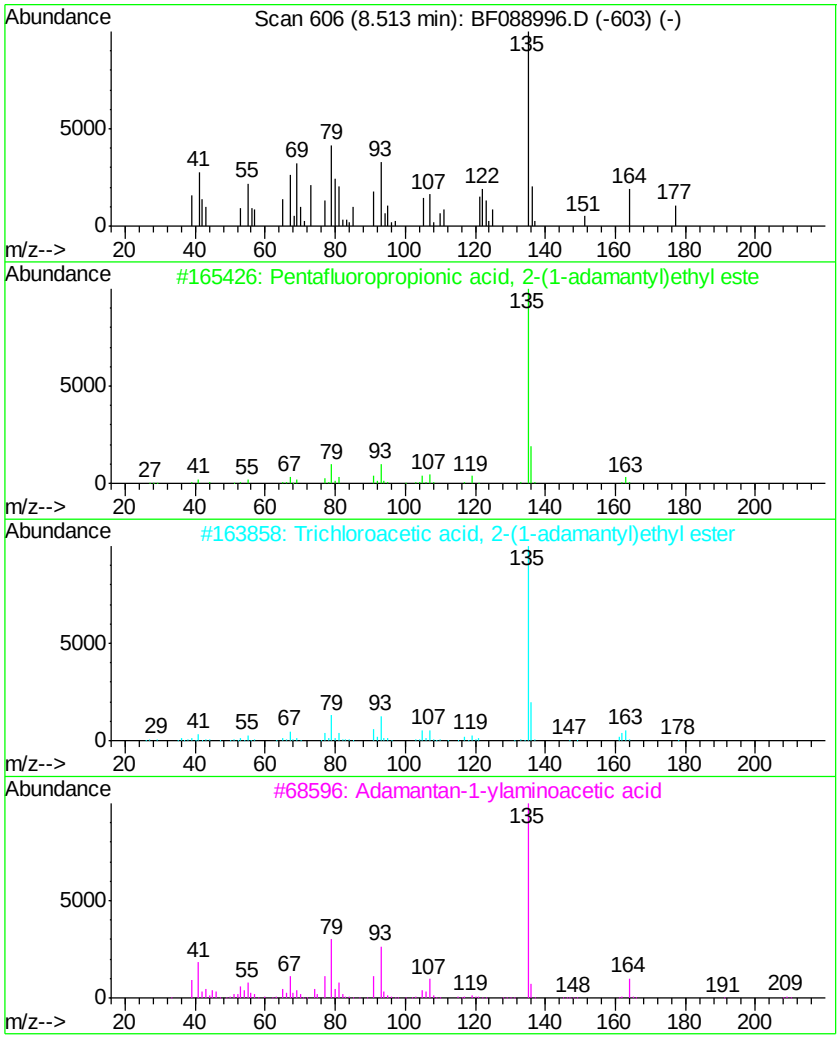
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

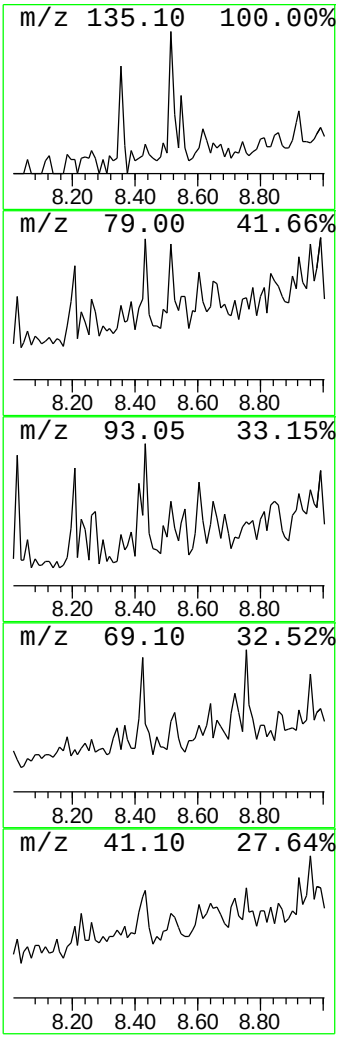
**********

Peak Number 9 unknown8.51 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.51 | 2.38 ng | 49185 | Naphthalene-d8 | 7.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentafluoropropionic acid, 2-(1-... | 326 | C15H19F5O2 | 1000283-03-9 | 43 |
| 2 | Trichloroacetic acid, 2-(1-adama... | 324 | C14H19Cl3O2 | 1000282-92-1 | 43 |
| 3 | Adamantan-1-ylaminoacetic acid | 209 | C12H19NO2 | 1000316-74-7 | 43 |
| 4 | N-[1-Adamantyl]aziridine | 177 | C12H19N | 1000256-62-9 | 43 |
| 5 | 1-Hydrazinoadamantane | 166 | C10H18N2 | 016782-38-0 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

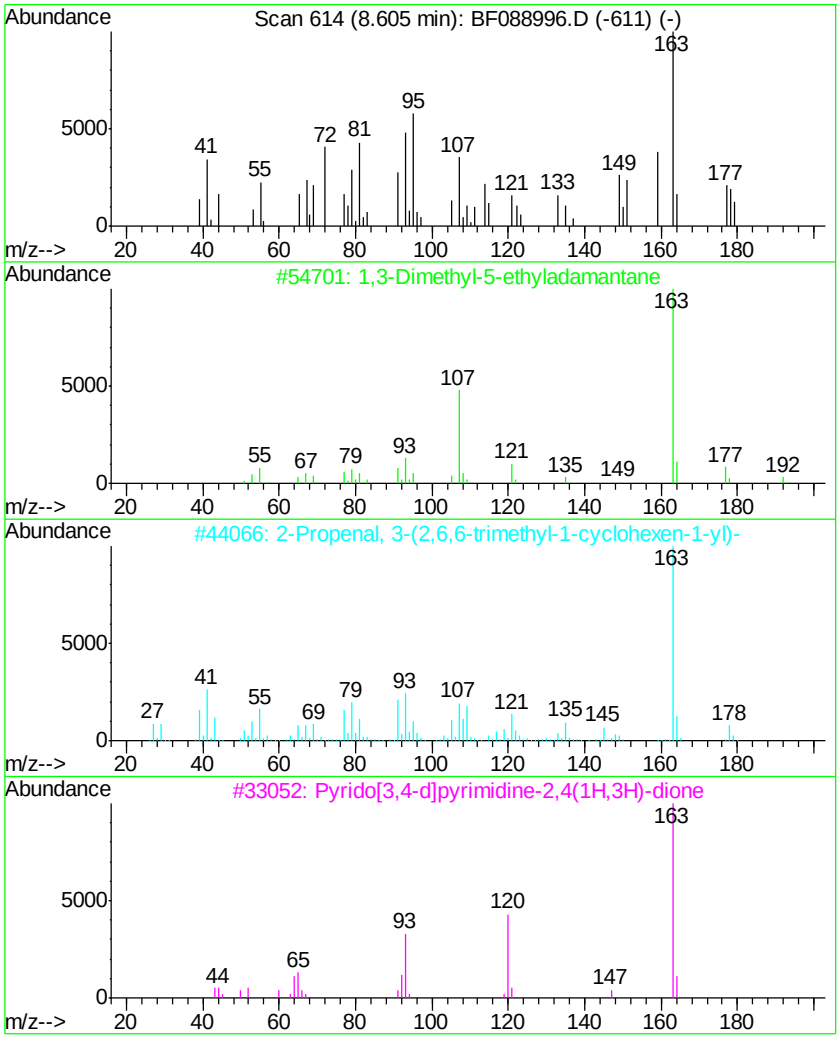
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

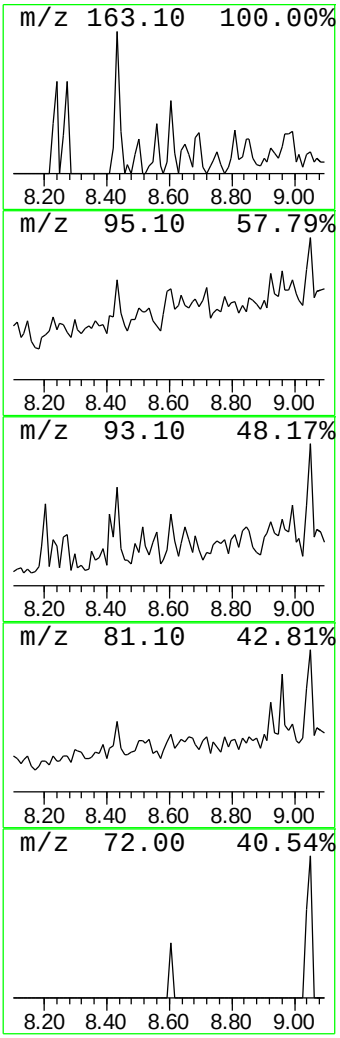
**********

Peak Number 10 unknown8.60 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.60 | 2.35 ng | 48645 | Naphthalene-d8 | 7.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Dimethyl-5-ethyladamantane | 192 | C14H24 | 001687-35-0 | 35 |
| 2 | 2-Propenal, 3-(2,6,6-trimethyl-1... | 178 | C12H18O | 004951-40-0 | 12 |
| 3 | Pyrido[3,4-d]pyrimidine-2,4(1H,3... | 163 | C7H5N3O2 | 021038-67-5 | 12 |
| 4 | 2-Propanone, 1-(3,5,5-trimethyl-... | 178 | C12H18O | 016695-72-0 | 11 |
| 5 | 1,3,3-Trimethyl-2-(2-methyl-cycl... | 178 | C13H22 | 285129-06-8 | 10 |



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Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

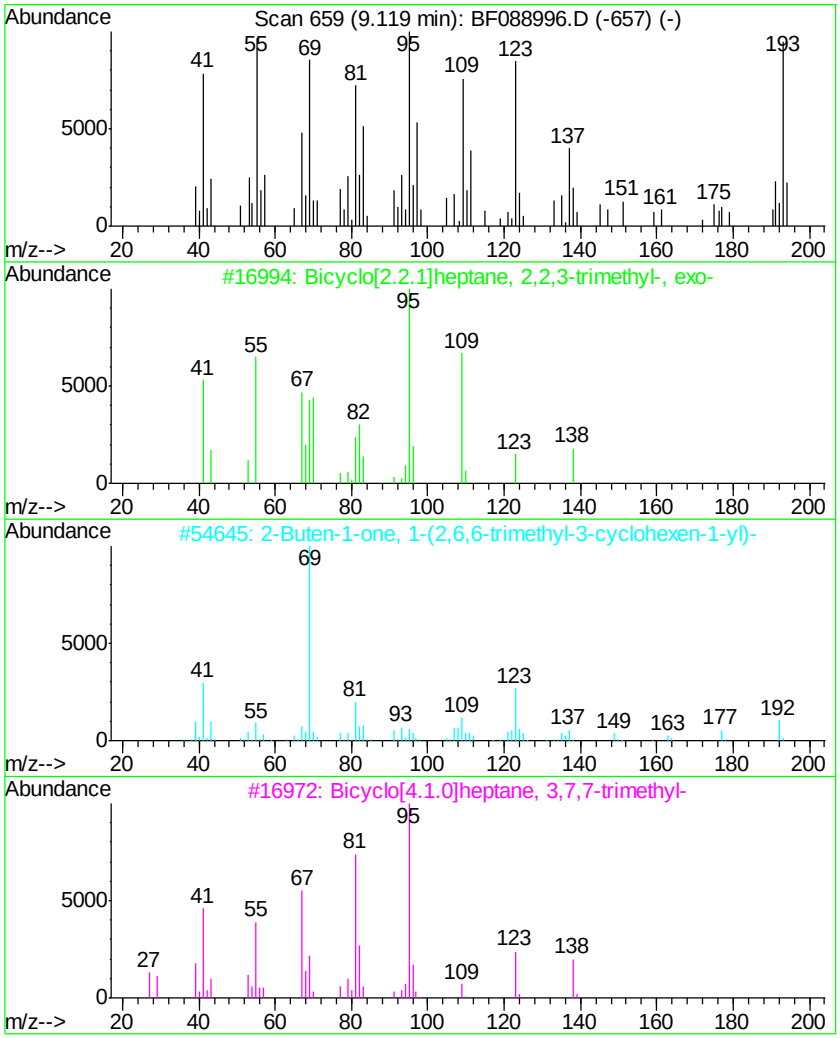
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

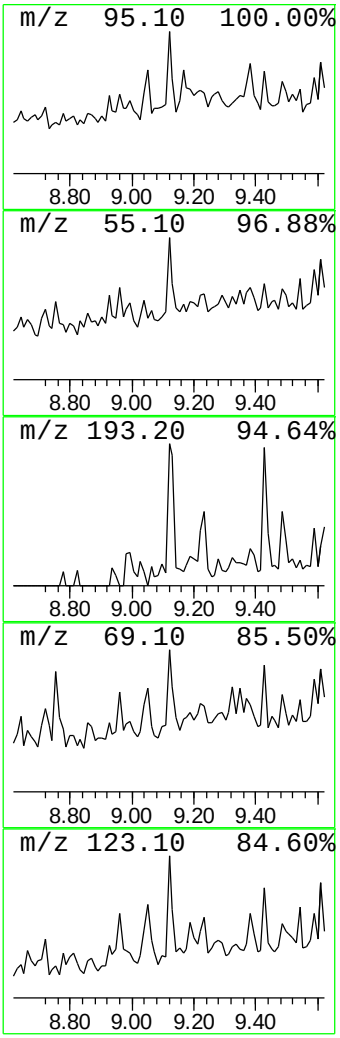
**********

Peak Number 11 unknown9.12 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.12 | 3.79 ng | 87543 | Acenaphthene-d10 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 020536-41-8 | 35 |
| 2 | 2-Buten-1-one, 1-(2,6,6-trimethy... | 192 | C13H20O | 041436-42-4 | 25 |
| 3 | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18 | 000554-59-6 | 25 |
| 4 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 020536-40-7 | 18 |
| 5 | Bicyclo[3.3.1]nonan-9-one, 1,2,4... | 225 | C12H19NO3 | 129967-65-3 | 14 |



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Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

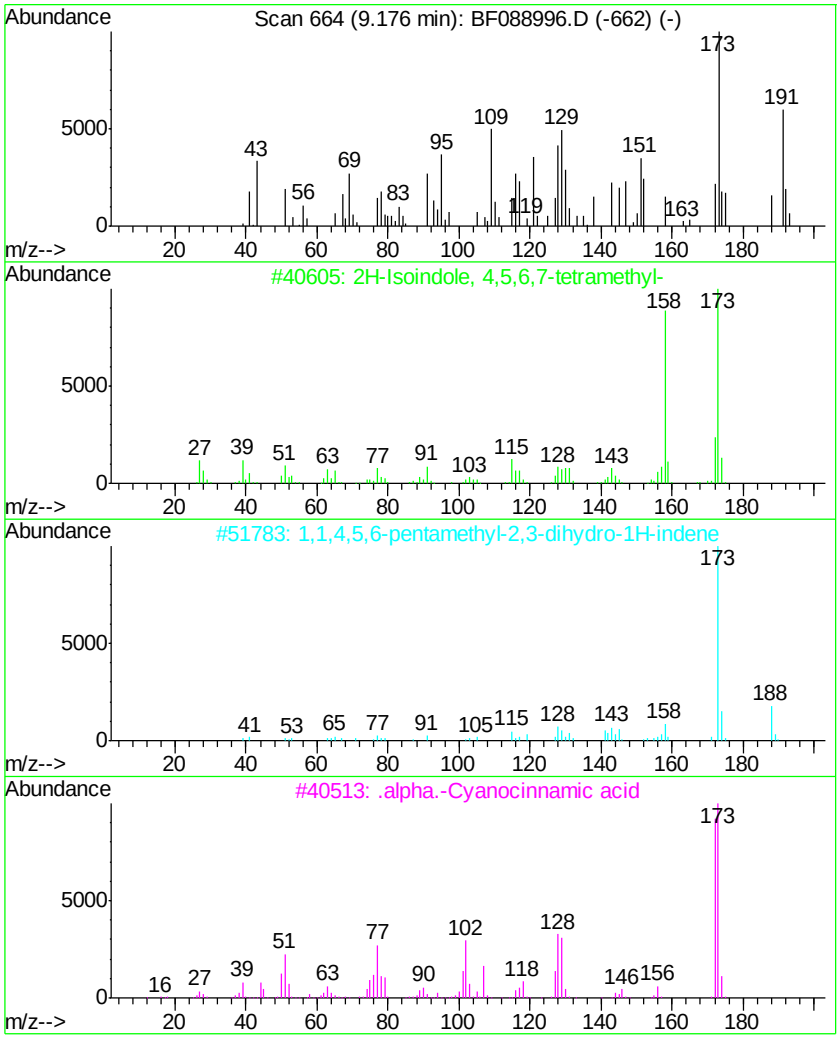
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

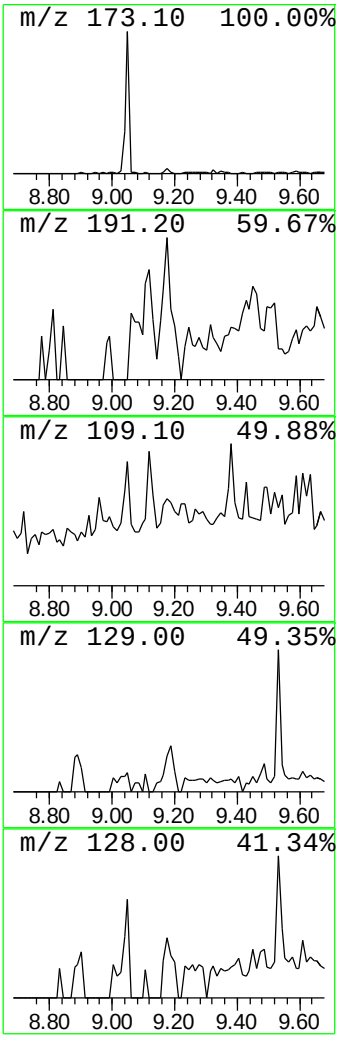
**********

Peak Number 12 unknown9.18 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.18 | 2.12 ng | 48859 | Acenaphthene-d10 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Isoindole, 4,5,6,7-tetramethyl- | 173 | C12H15N | 070187-61-0 | 43 |
| 2 | 1,1,4,5,6-pentamethyl-2,3-dihydr... | 188 | C14H20 | 1000374-13-8 | 35 |
| 3 | .alpha.-Cyanocinnamic acid | 173 | C10H7NO2 | 001011-92-3 | 27 |
| 4 | 2-Naphthalenol, 1-nitroso- | 173 | C10H7NO2 | 000131-91-9 | 27 |
| 5 | 5-Amino-1-methyl-3-phenylpyrazole | 173 | C10H11N3 | 010199-50-5 | 22 |



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Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

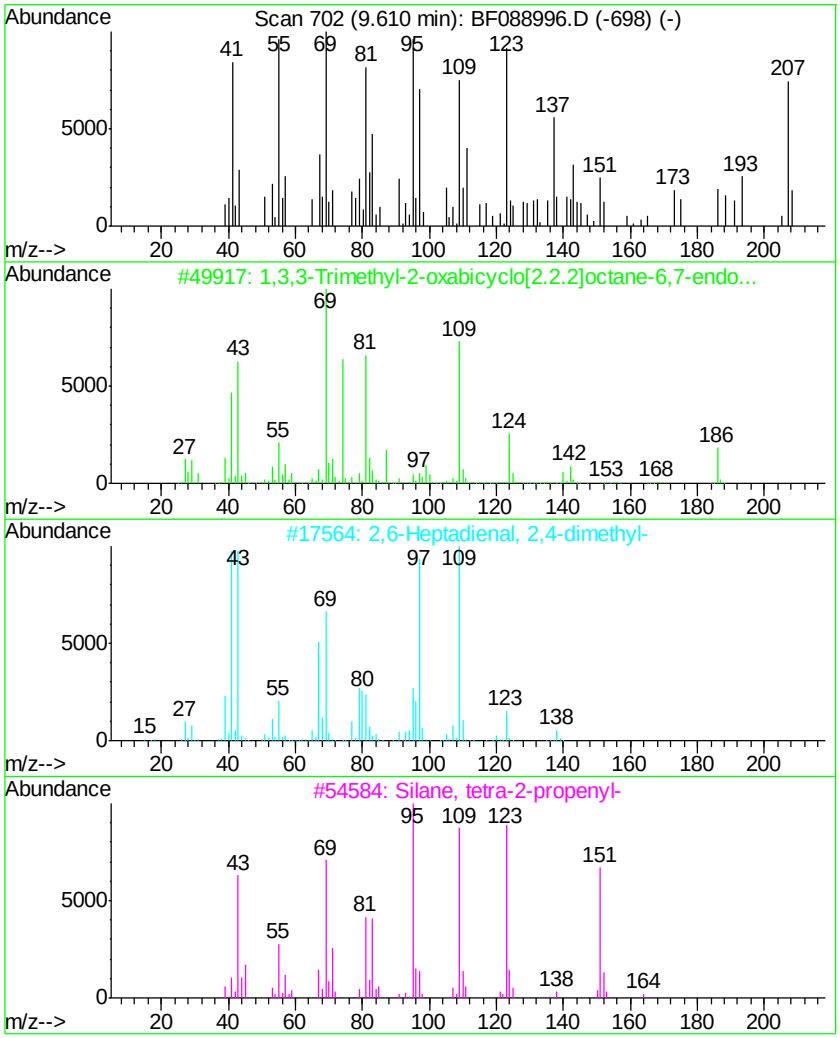
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

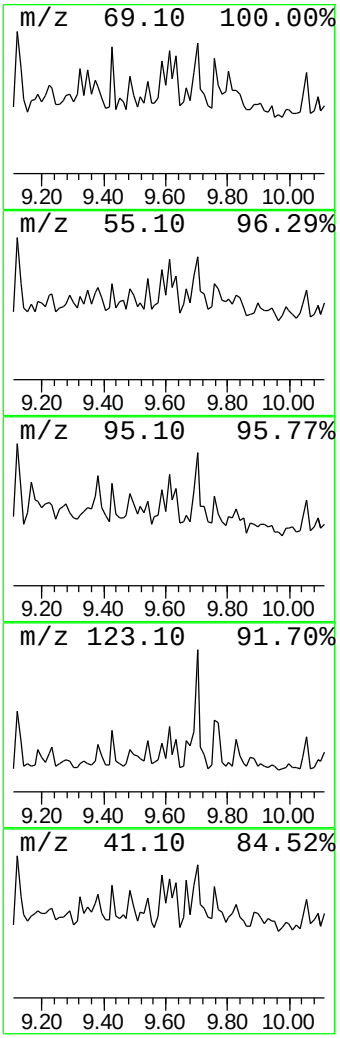
**********

Peak Number 13 unknown9.61 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.61 | 5.62 ng | 129674 | Acenaphthene-d10 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3,3-Trimethyl-2-oxabicyclo[2.2... | 186 | C10H18O3 | 056084-15-2 | 30 |
| 2 | 2,6-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 085136-08-9 | 30 |
| 3 | Silane, tetra-2-propenyl- | 192 | C12H20Si | 001112-66-9 | 27 |
| 4 | 3,5-Octadiene, 4,5-diethyl- | 166 | C12H22 | 067652-84-0 | 22 |
| 5 | 2-Furanacetaldehyde, .alpha.-iso... | 152 | C9H12O2 | 031681-30-8 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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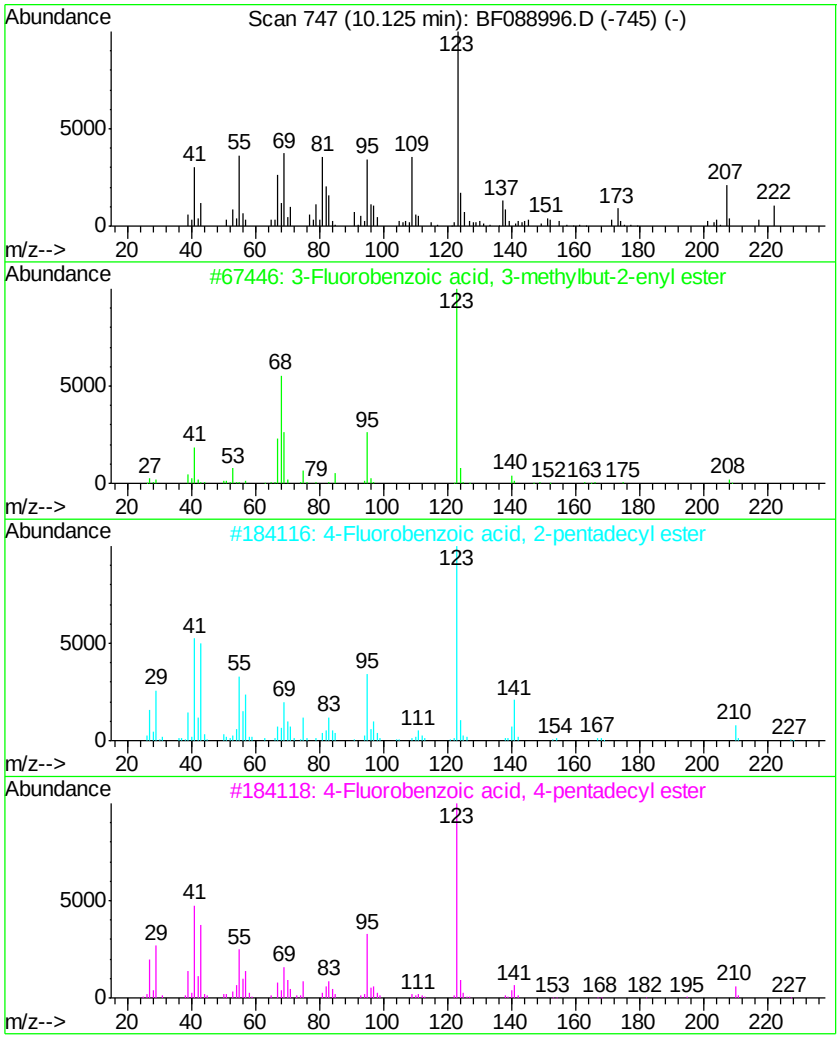
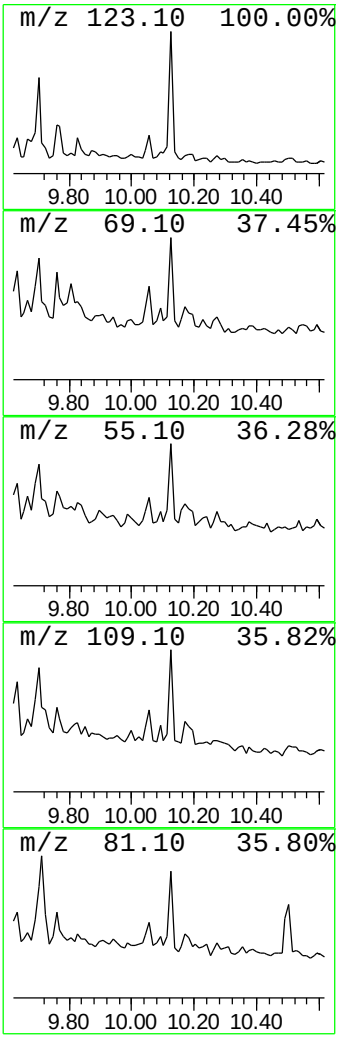
Peak Number 14 3-Fluorobenzoic acid, 3-met... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.12 | 3.36 ng | 77525 | Acenaphthene-d10 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Fluorobenzoic acid, 3-methylbu... | 208 | C12H13FO2 | 154559-38-3 | 53 |
| 2 | 4-Fluorobenzoic acid, 2-pentadec... | 350 | C22H35FO2 | 1000280-68-3 | 50 |
| 3 | 4-Fluorobenzoic acid, 4-pentadec... | 350 | C22H35FO2 | 1000280-68-5 | 50 |
| 4 | 1-Trimethylsilylpent-1-en-4-yne | 138 | C8H14Si | 079516-25-9 | 50 |
| 5 | 1,3-Benzenediamine, 4-methoxy- | 138 | C7H10N2O | 000615-05-4 | 49 |



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Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

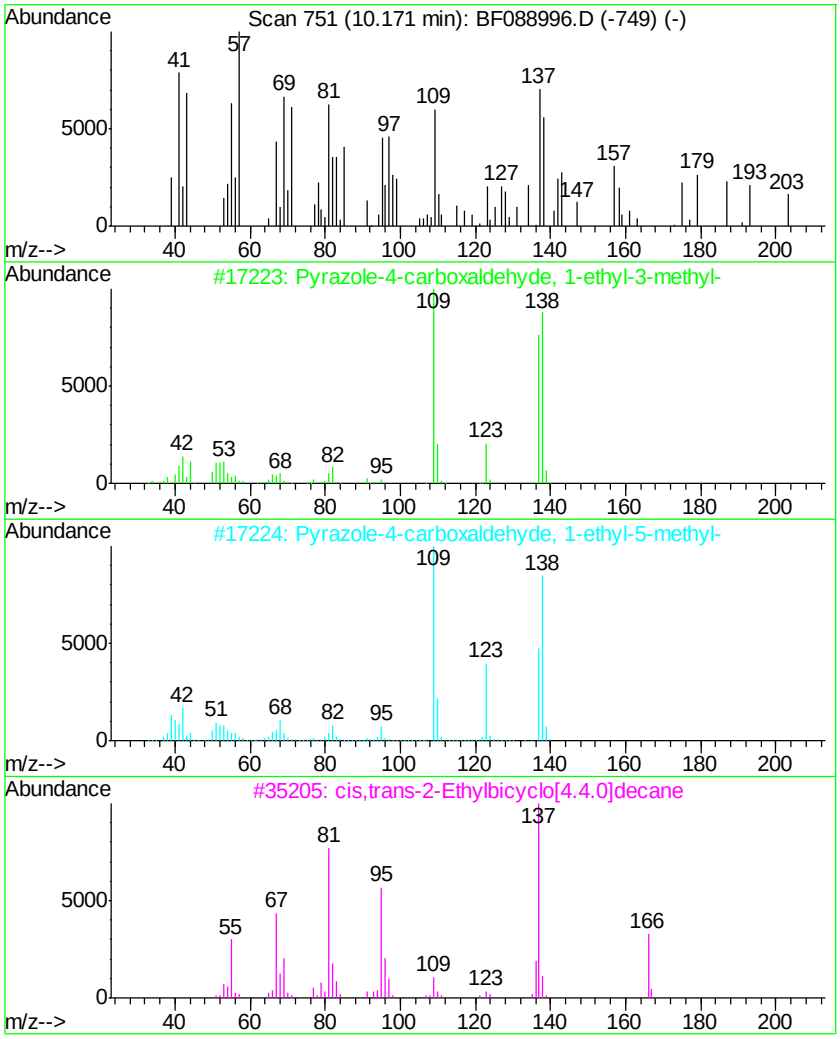
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

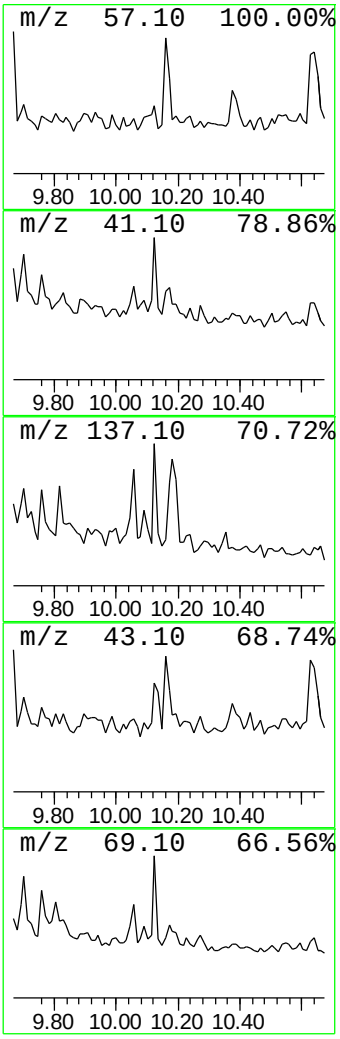
**********

Peak Number 15 unknown10.17 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.17 | 2.93 ng | 67570 | Acenaphthene-d10 | 9.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrazole-4-carboxaldehyde, 1-eth... | 138 | C7H10N2O | 1000273-81-1 | 22 |
| 2 | Pyrazole-4-carboxaldehyde, 1-eth... | 138 | C7H10N2O | 1000273-81-2 | 18 |
| 3 | cis,trans-2-Ethylbicyclo[4.4.0]d... | 166 | C12H22 | 066660-38-6 | 14 |
| 4 | Pyridin-3-yl 2-methylbutanoate | 179 | C10H13NO2 | 1000372-73-7 | 14 |
| 5 | Cyclopentanecarboxylic acid, 3-i... | 290 | C19H30O2 | 1000151-83-4 | 14 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

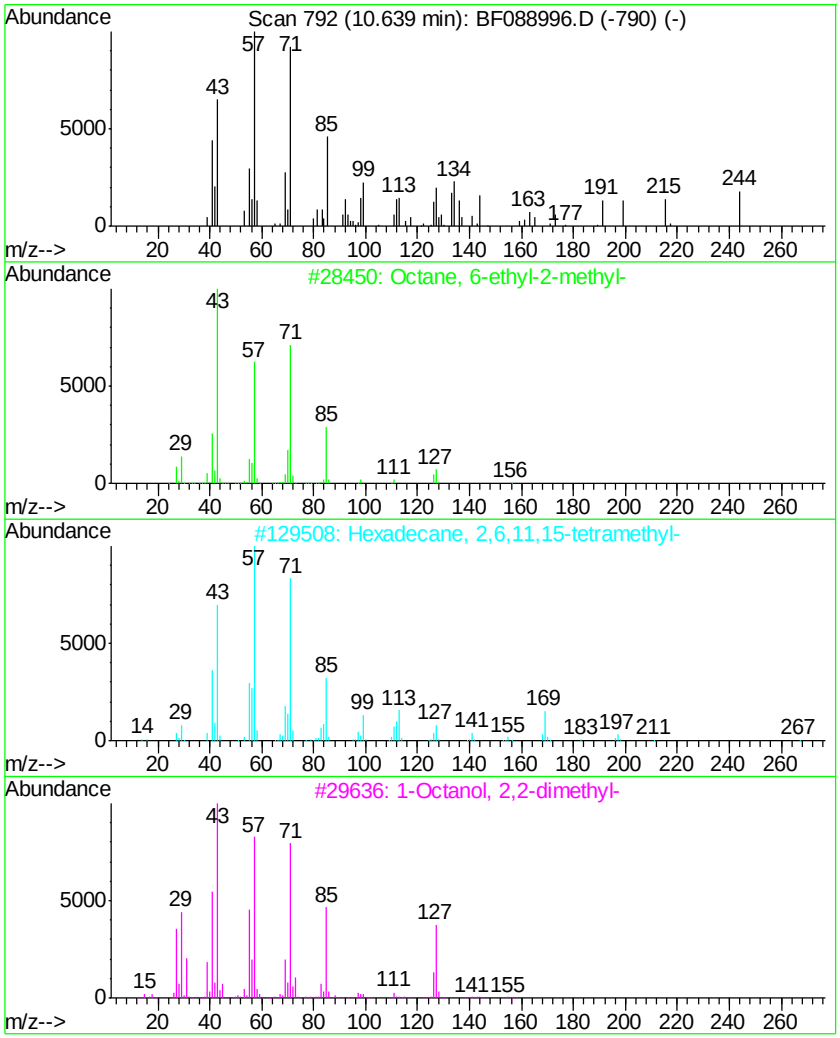
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

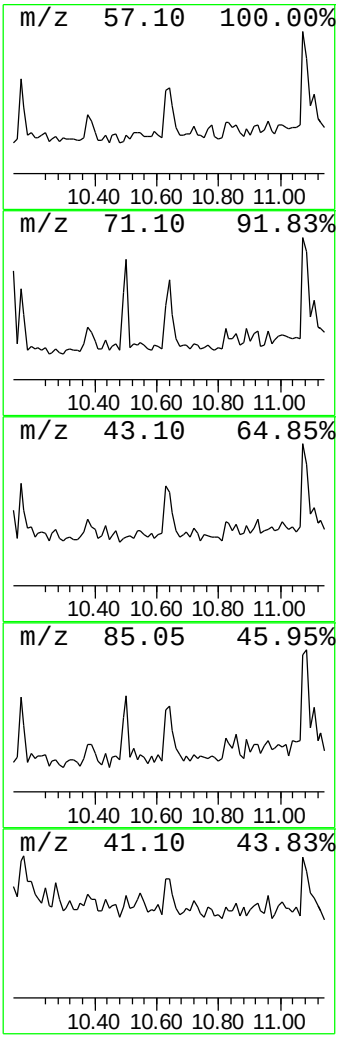
**********

Peak Number 16 unknown10.64 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.64 | 2.74 ng | 44666 | Phenanthrene-d10 | 11.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 6-ethyl-2-methyl- | 156 | C11H24 | 062016-19-7 | 47 |
| 2 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 47 |
| 3 | 1-Octanol, 2,2-dimethyl- | 158 | C10H22O | 002370-14-1 | 47 |
| 4 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 43 |
| 5 | Decane, 2,3,5,8-tetramethyl- | 198 | C14H30 | 192823-15-7 | 43 |



# Library Search Compound Report

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Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

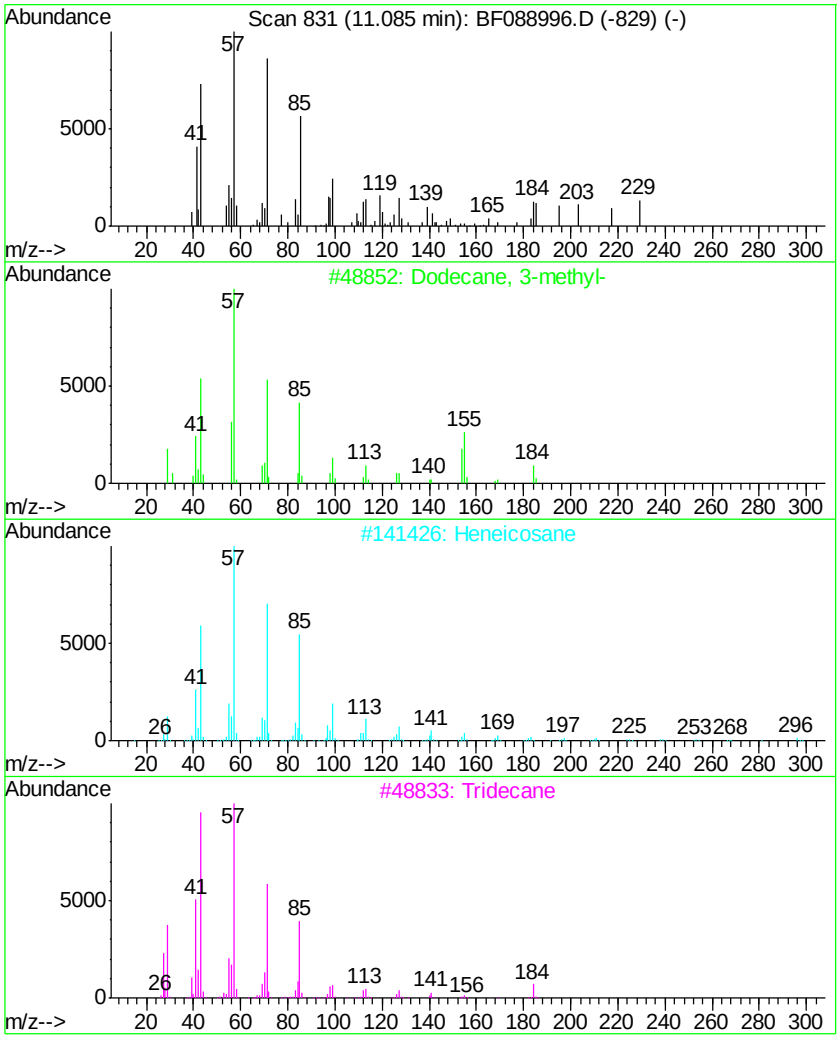
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

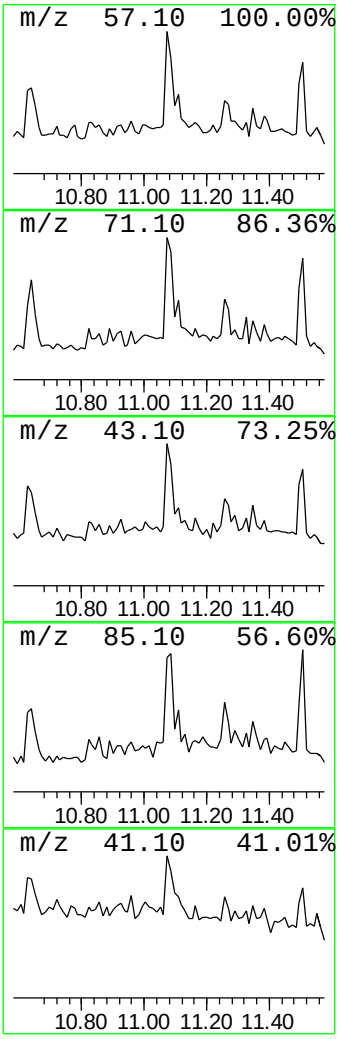
**********

Peak Number 17 Dodecane, 3-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.08 | 2.87 ng | 46915 | Phenanthrene-d10 | 11.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 58 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 52 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 52 |
| 4 | Tetracontane | 563 | C40H82 | 004181-95-7 | 50 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

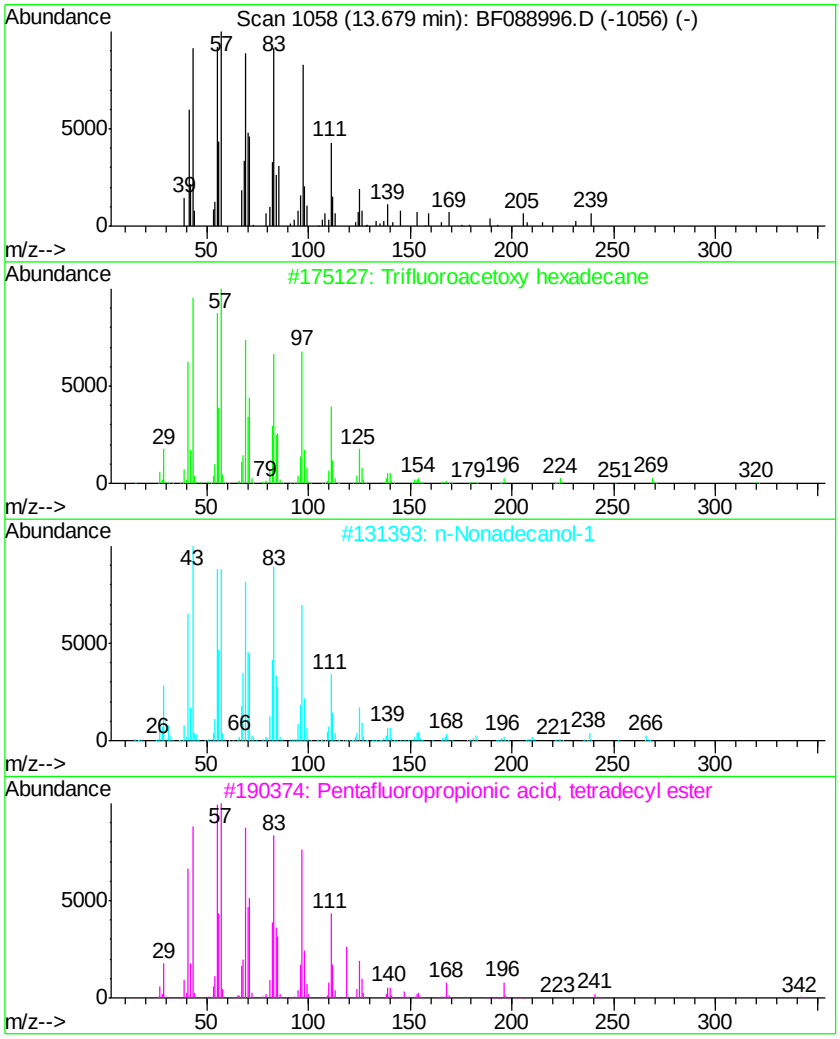
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

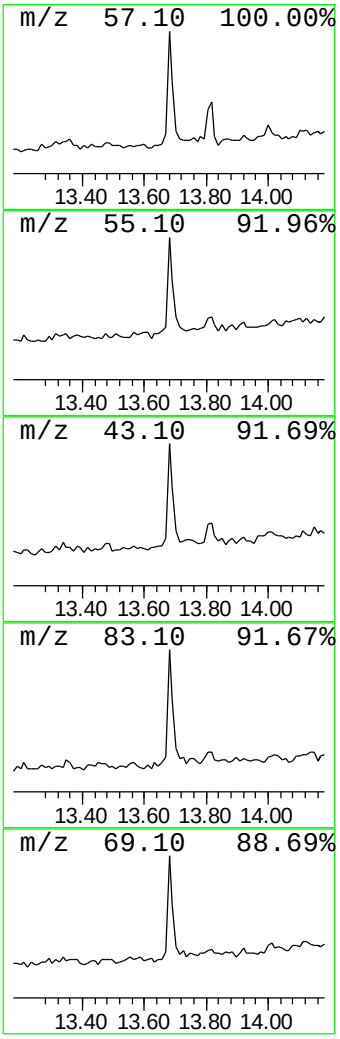
**********

Peak Number 18 Trifluoroacetoxy hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.68 | 3.77 ng | 69670 | Chrysene-d12 | 13.81 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 95 |
| 2 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 95 |
| 3 | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2 | 006222-06-6 | 95 |
| 4 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 95 |
| 5 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 94 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

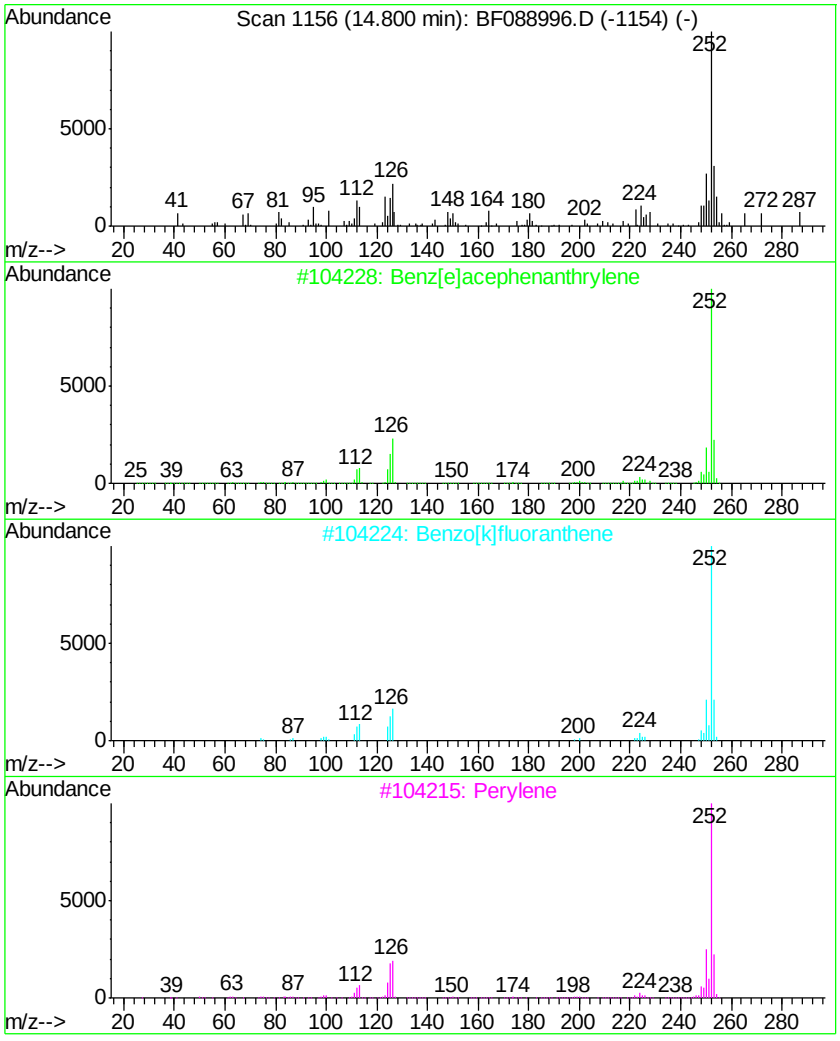
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

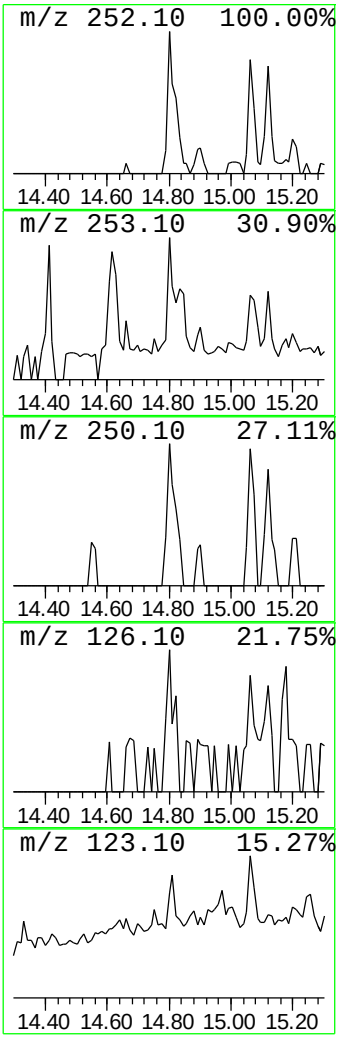
**********

Peak Number 19 Benz[e]acephenanthrylene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.80 | 2.95 ng | 38434 | Perylene-d12 | 15.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 70 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 70 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 68 |
| 4 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 64 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

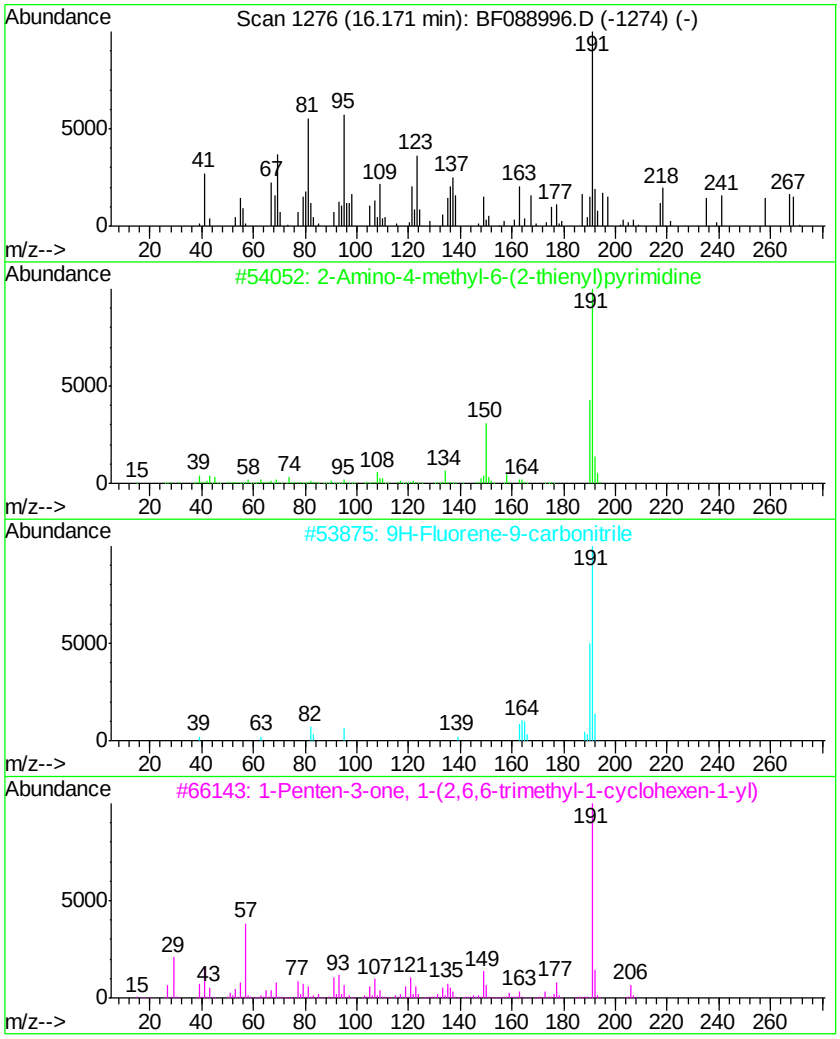
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

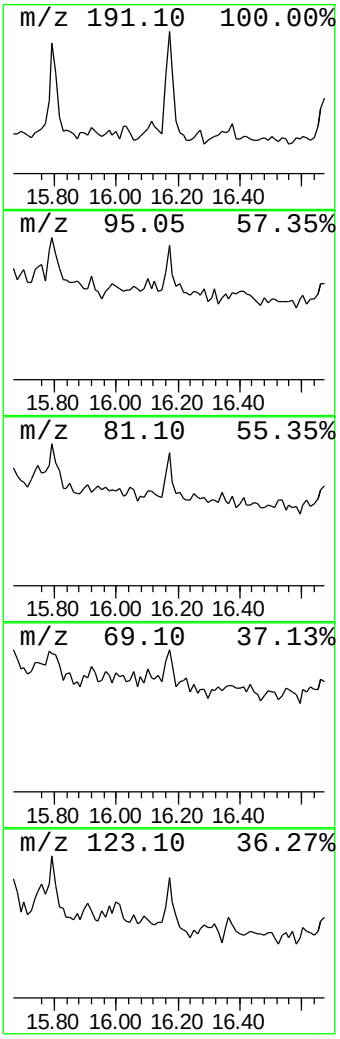
**********

Peak Number 20 unknown16.17 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.17 | 2.77 ng | 36041 | Perylene-d12 | 15.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Amino-4-methyl-6-(2-thienyl)py... | 191 | C9H9N3S | 026963-43-9 | 27 |
| 2 | 9H-Fluorene-9-carbonitrile | 191 | C14H9N | 001529-40-4 | 27 |
| 3 | 1-Penten-3-one, 1-(2,6,6-trimeth... | 206 | C14H22O | 000127-43-5 | 25 |
| 4 | 2,2,6-Trimethyl-1-(2-methyl-cycl... | 218 | C15H22O | 1000188-72-8 | 22 |
| 5 | 1H-Isoindole-5-carboxylic acid, ... | 191 | C9H5NO4 | 020262-55-9 | 18 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
Data File : BF088996.D
Acq On : 14 Jul 2016 20:19
Operator : UM/SJ
Sample : H3996-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** U2-B1(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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 |
| unknown2.80 | 2.80 | 2.5 | ng | 43505 | 1 | 6.68 | 345817 | 20.0 |
| 2-Pentanone, 4-hy... | 4.83 | 8.8 | ng | 152670 | 1 | 6.68 | 345817 | 20.0 |
| unknown6.46 | 6.46 | 87.3 | ng | 1509580 | 1 | 6.68 | 345817 | 20.0 |
| 2-Methyladamantane | 7.91 | 2.4 | ng | 49220 | 2 | 7.96 | 413308 | 20.0 |
| 1,3,4-Trimethylad... | 8.43 | 3.3 | ng | 69018 | 2 | 7.96 | 413308 | 20.0 |
| unknown8.51 | 8.51 | 2.4 | ng | 49185 | 2 | 7.96 | 413308 | 20.0 |
| unknown8.60 | 8.60 | 2.4 | ng | 48645 | 2 | 7.96 | 413308 | 20.0 |
| unknown9.12 | 9.12 | 3.8 | ng | 87543 | 3 | 9.71 | 461668 | 20.0 |
| unknown9.18 | 9.18 | 2.1 | ng | 48859 | 3 | 9.71 | 461668 | 20.0 |
| unknown9.61 | 9.61 | 5.6 | ng | 129674 | 3 | 9.71 | 461668 | 20.0 |
| 3-Fluorobenzoic a... | 10.12 | 3.4 | ng | 77525 | 3 | 9.71 | 461668 | 20.0 |
| unknown10.17 | 10.17 | 2.9 | ng | 67570 | 3 | 9.71 | 461668 | 20.0 |
| unknown10.64 | 10.64 | 2.7 | ng | 44666 | 4 | 11.19 | 326437 | 20.0 |
| Dodecane, 3-methyl- | 11.08 | 2.9 | ng | 46915 | 4 | 11.19 | 326437 | 20.0 |
| Trifluoroacetoxy ... | 13.68 | 3.8 | ng | 69670 | 5 | 13.81 | 369353 | 20.0 |
| Benz[e]acephenant... | 14.80 | 3.0 | ng | 38434 | 6 | 15.18 | 260336 | 20.0 |
| unknown16.17 | 16.17 | 2.8 | ng | 36041 | 6 | 15.18 | 260336 | 20.0 |