LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

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-BF060716.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 | 6 | 7 | 16 | rVB | 195200 | 354299 | 6.61% | 0.760% |
| 2 | 1.793 | 16 | 18 | 68 | rVB | 1369362 | 3218749 | 60.08% | 6.907% |
| 3 | 4.856 | 284 | 286 | 297 | rVB | 59583 | 109314 | 2.04% | 0.235% |
| 4 | 5.290 | 322 | 324 | 326 | rBV | 1293608 | 1319574 | 24.63% | 2.832% |
| 5 | 5.839 | 368 | 372 | 375 | rBV2 | 46594 | 81066 | 1.51% | 0.174% |
| 6 | 6.342 | 414 | 416 | 419 | rBV | 920829 | 828687 | 15.47% | 1.778% |
| 7 | 6.467 | 424 | 427 | 429 | rBV | 2165941 | 2190370 | 40.88% | 4.700% |
| 8 | 6.650 | 439 | 443 | 445 | rBV | 65006 | 86713 | 1.62% | 0.186% |
| 9 | 6.696 | 445 | 447 | 449 | rBV | 716140 | 641634 | 11.98% | 1.377% |
| 10 | 6.856 | 458 | 461 | 465 | rVB2 | 2008544 | 2824063 | 52.71% | 6.060% |
| 11 | 6.947 | 467 | 469 | 472 | rVB | 243068 | 225305 | 4.21% | 0.483% |
| 12 | 7.039 | 474 | 477 | 480 | rBV2 | 192759 | 261249 | 4.88% | 0.561% |
| 13 | 7.084 | 480 | 481 | 485 | rBV3 | 65432 | 95601 | 1.78% | 0.205% |
| 14 | 7.233 | 491 | 494 | 495 | rBV2 | 281816 | 365936 | 6.83% | 0.785% |
| 15 | 7.267 | 495 | 497 | 500 | rVV2 | 1702842 | 2234026 | 41.70% | 4.794% |
| 16 | 7.347 | 502 | 504 | 506 | rVB2 | 140693 | 139017 | 2.59% | 0.298% |
| 17 | 7.393 | 506 | 508 | 510 | rBV | 139343 | 180068 | 3.36% | 0.386% |
| 18 | 7.473 | 512 | 515 | 517 | rVB | 375648 | 384713 | 7.18% | 0.826% |
| 19 | 7.553 | 517 | 522 | 524 | rBV5 | 48037 | 116935 | 2.18% | 0.251% |
| 20 | 7.587 | 524 | 525 | 527 | rBV | 55452 | 60291 | 1.13% | 0.129% |
| 21 | 7.633 | 527 | 529 | 534 | rVB3 | 212765 | 433773 | 8.10% | 0.931% |
| 22 | 7.725 | 534 | 537 | 539 | rBV2 | 313087 | 353309 | 6.59% | 0.758% |
| 23 | 7.793 | 541 | 543 | 545 | rBV2 | 64600 | 82454 | 1.54% | 0.177% |
| 24 | 7.919 | 550 | 554 | 557 | rBV3 | 116729 | 221248 | 4.13% | 0.475% |
| 25 | 7.976 | 557 | 559 | 563 | rVV2 | 753073 | 1251047 | 23.35% | 2.685% |
| 26 | 8.033 | 563 | 564 | 566 | rVB | 204936 | 142676 | 2.66% | 0.306% |
| 27 | 8.113 | 569 | 571 | 572 | rBV2 | 56256 | 68986 | 1.29% | 0.148% |
| 28 | 8.182 | 574 | 577 | 578 | rBV | 294711 | 294724 | 5.50% | 0.632% |
| 29 | 8.227 | 578 | 581 | 582 | rBV | 390021 | 328790 | 6.14% | 0.706% |
| 30 | 8.365 | 589 | 593 | 594 | rBV3 | 169549 | 180786 | 3.37% | 0.388% |
| 31 | 8.456 | 596 | 601 | 604 | rBV4 | 126588 | 332567 | 6.21% | 0.714% |
| 32 | 8.513 | 604 | 606 | 607 | rVB | 87745 | 62047 | 1.16% | 0.133% |
| 33 | 8.547 | 607 | 609 | 610 | rVB2 | 123137 | 136414 | 2.55% | 0.293% |
| 34 | 8.582 | 610 | 612 | 613 | rBV2 | 75738 | 86879 | 1.62% | 0.186% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.639 | 615 | 617 | 619 | rVB2 | 267997 | 284645 | 5.31% | 0.611% |
| 36 | 8.673 | 619 | 620 | 623 | rVB3 | 106075 | 138142 | 2.58% | 0.296% |
| 37 | 8.730 | 623 | 625 | 626 | rBV | 90620 | 110556 | 2.06% | 0.237% |
| 38 | 8.799 | 626 | 631 | 633 | rBV3 | 304080 | 612103 | 11.42% | 1.313% |
| 39 | 8.902 | 636 | 640 | 641 | rBV4 | 134345 | 255017 | 4.76% | 0.547% |
| 40 | 8.936 | 641 | 643 | 644 | rVB | 63410 | 68995 | 1.29% | 0.148% |
| 41 | 8.982 | 644 | 647 | 649 | rVB3 | 50321 | 76006 | 1.42% | 0.163% |
| 42 | 9.016 | 649 | 650 | 651 | rBV | 78000 | 76473 | 1.43% | 0.164% |
| 43 | 9.062 | 651 | 654 | 656 | rVB | 2324743 | 3002946 | 56.05% | 6.444% |
| 44 | 9.210 | 662 | 667 | 668 | rBV2 | 114041 | 269826 | 5.04% | 0.579% |
| 45 | 9.325 | 675 | 677 | 680 | rBV3 | 154810 | 352195 | 6.57% | 0.756% |
| 46 | 9.405 | 680 | 684 | 688 | rVV6 | 462354 | 1192493 | 22.26% | 2.559% |
| 47 | 9.462 | 688 | 689 | 692 | rVV2 | 223032 | 318041 | 5.94% | 0.682% |
| 48 | 9.508 | 692 | 693 | 694 | rVV | 192471 | 179744 | 3.35% | 0.386% |
| 49 | 9.588 | 698 | 700 | 703 | rBV2 | 136141 | 241661 | 4.51% | 0.519% |
| 50 | 9.702 | 706 | 710 | 711 | rBV4 | 130529 | 392937 | 7.33% | 0.843% |
| 51 | 9.736 | 711 | 713 | 714 | rVV | 1034017 | 1040141 | 19.41% | 2.232% |
| 52 | 9.816 | 714 | 720 | 721 | rVV | 1021299 | 2513627 | 46.92% | 5.394% |
| 53 | 9.862 | 723 | 724 | 726 | rVV | 202855 | 216051 | 4.03% | 0.464% |
| 54 | 9.919 | 726 | 729 | 732 | rVV3 | 135299 | 305401 | 5.70% | 0.655% |
| 55 | 10.056 | 736 | 741 | 742 | rBV3 | 209210 | 465065 | 8.68% | 0.998% |
| 56 | 10.090 | 742 | 744 | 749 | rVB3 | 743927 | 1575631 | 29.41% | 3.381% |
| 57 | 10.193 | 749 | 753 | 755 | rBV2 | 409395 | 644708 | 12.03% | 1.383% |
| 58 | 10.251 | 755 | 758 | 759 | rVV3 | 173466 | 299768 | 5.60% | 0.643% |
| 59 | 10.319 | 762 | 764 | 766 | rBV3 | 143334 | 221644 | 4.14% | 0.476% |
| 60 | 10.445 | 773 | 775 | 777 | rBV3 | 88623 | 172956 | 3.23% | 0.371% |
| 61 | 10.525 | 777 | 782 | 786 | rVV3 | 1761753 | 5357693 | 100.00% | 11.497% |
| 62 | 10.582 | 786 | 787 | 788 | rVV | 207504 | 152899 | 2.85% | 0.328% |
| 63 | 10.731 | 797 | 800 | 801 | rBV3 | 75338 | 151689 | 2.83% | 0.326% |
| 64 | 10.776 | 803 | 804 | 805 | rVB | 102771 | 70450 | 1.31% | 0.151% |
| 65 | 10.868 | 811 | 812 | 815 | rBV3 | 172268 | 274237 | 5.12% | 0.588% |
| 66 | 11.108 | 829 | 833 | 840 | rVB6 | 150981 | 457205 | 8.53% | 0.981% |
| 67 | 11.211 | 840 | 842 | 844 | rVV | 853549 | 886801 | 16.55% | 1.903% |
| 68 | 11.302 | 848 | 850 | 856 | rVV3 | 118177 | 231950 | 4.33% | 0.498% |
| 69 | 11.428 | 859 | 861 | 862 | rBV | 52819 | 55119 | 1.03% | 0.118% |
| 70 | 11.759 | 888 | 890 | 899 | rVB2 | 160685 | 245273 | 4.58% | 0.526% |
| 71 | 12.536 | 956 | 958 | 960 | rVV | 60278 | 68757 | 1.28% | 0.148% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.799 | 978 | 981 | 983 | rBV | 2382049 | 2599395 | 48.52% | 5.578% |
| 73 | 13.839 | 1069 | 1072 | 1075 | rBV | 798668 | 737730 | 13.77% | 1.583% |
| 74 | 15.222 | 1190 | 1193 | 1200 | rVB | 523035 | 592517 | 11.06% | 1.271% |

Sum of corrected areas: 46601797

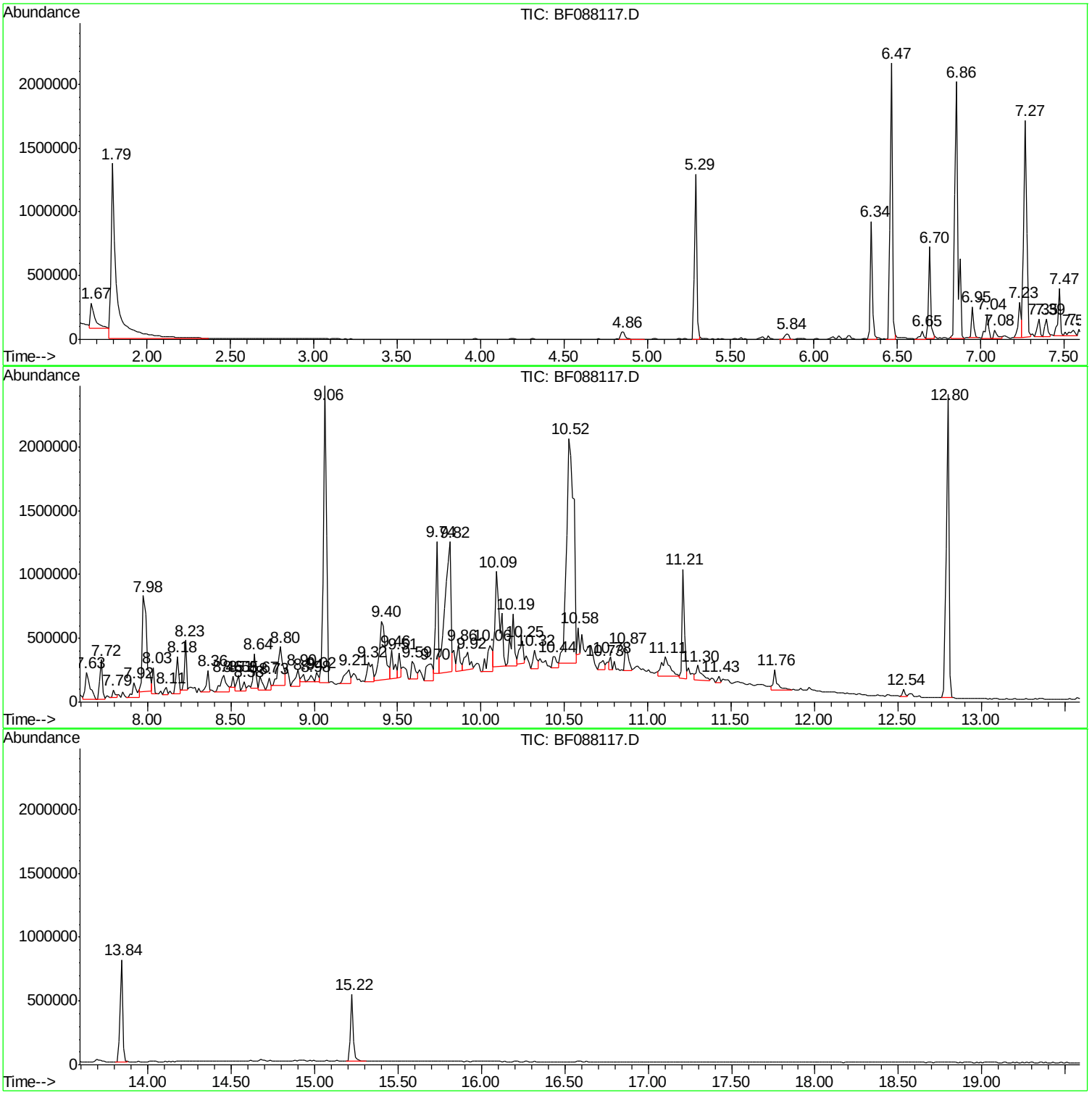
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

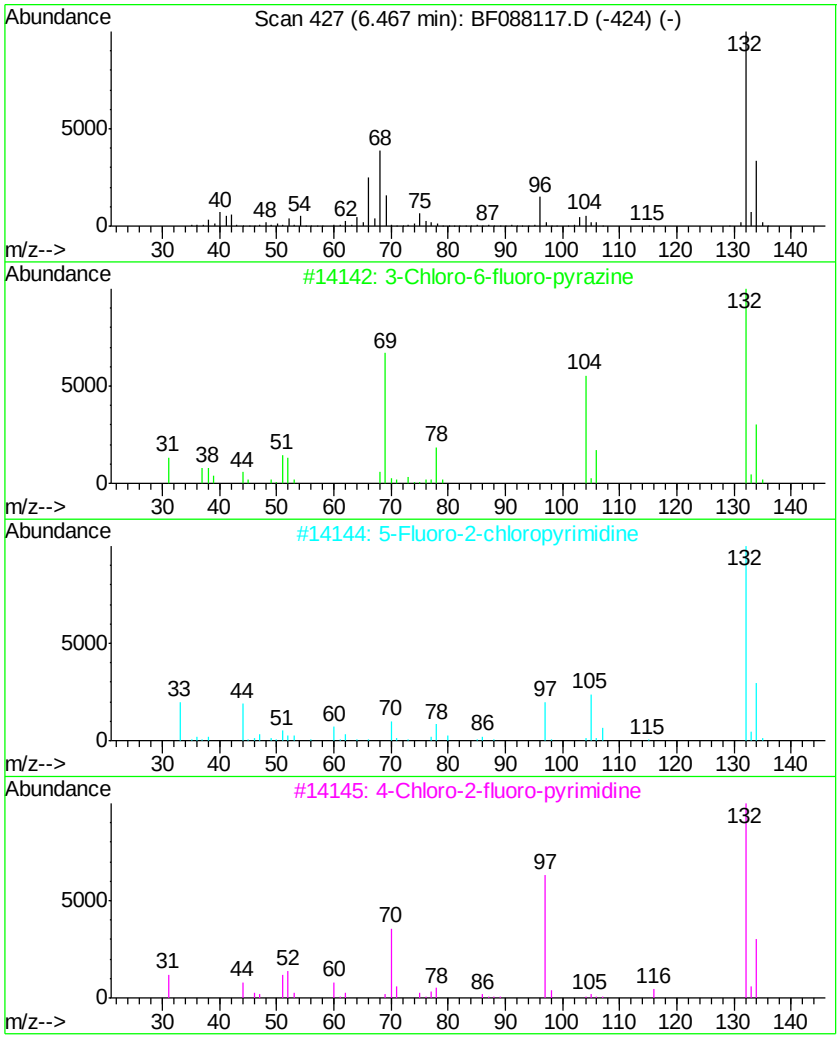
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

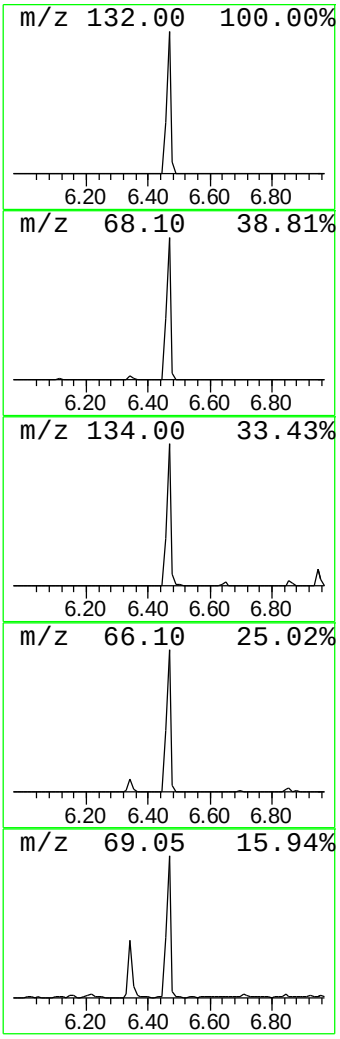
**********

Peak Number 3 unknown6.47 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.47 | 68.27 ng | 2190370 | 1,4-Dichlorobenzene-d4 | 6.70 |

| 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 | 9 |
| 3 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

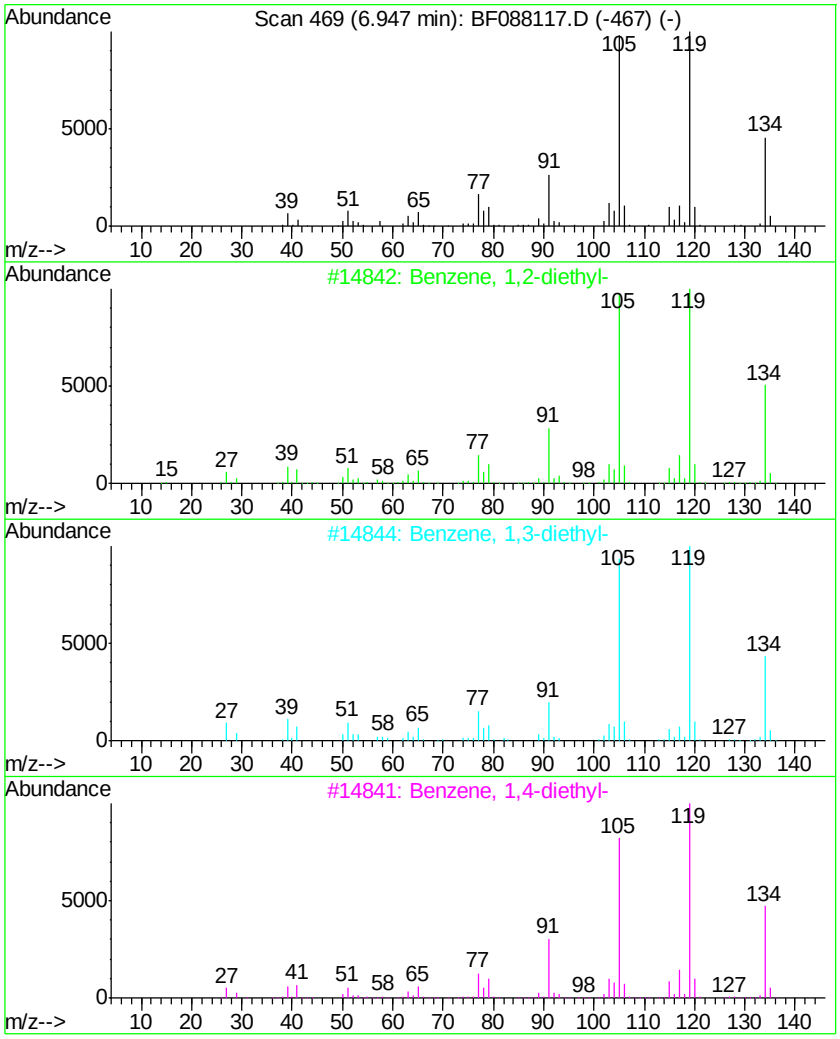
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

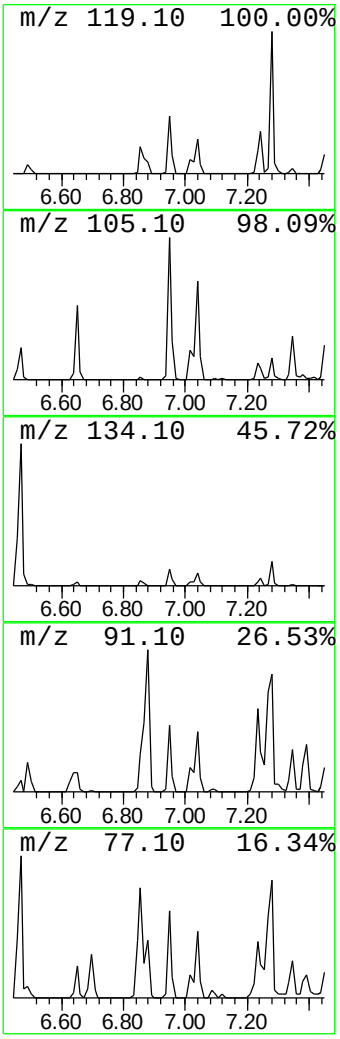
**********

Peak Number 5 Benzene, 1,2-diethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.95 | 7.02 ng | 225305 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 2 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 96 |
| 3 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 95 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

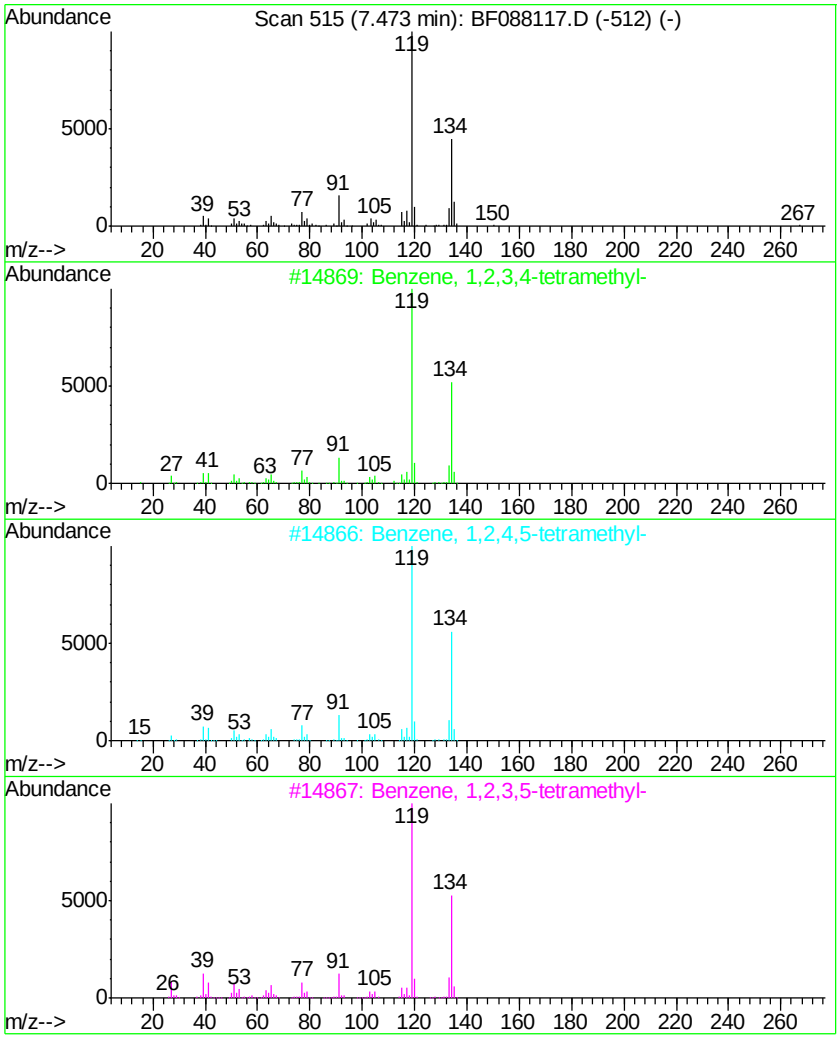
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

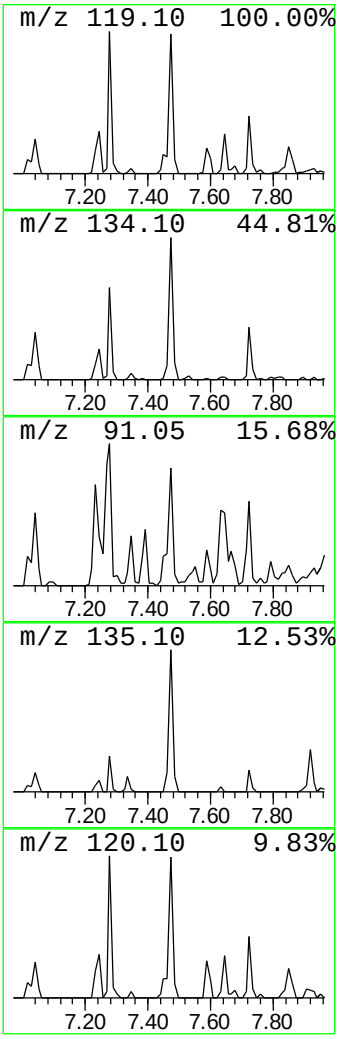
**********

Peak Number 7 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.47 | 6.15 ng | 384713 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 93 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

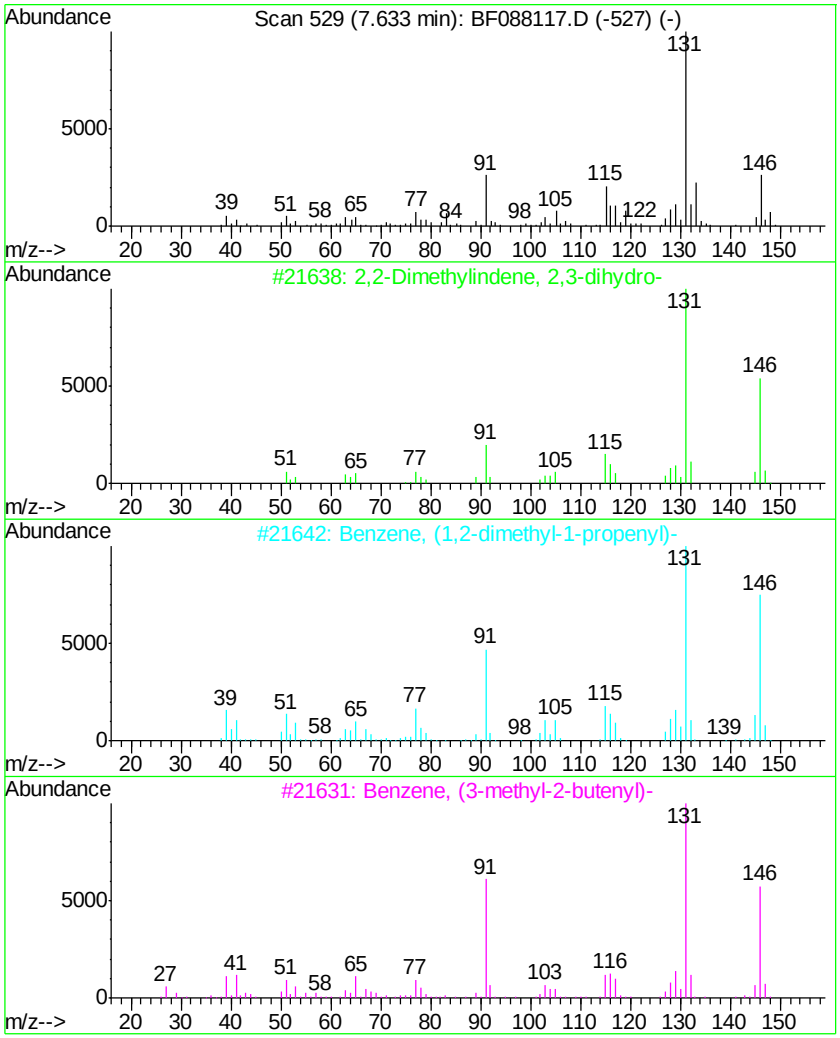
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

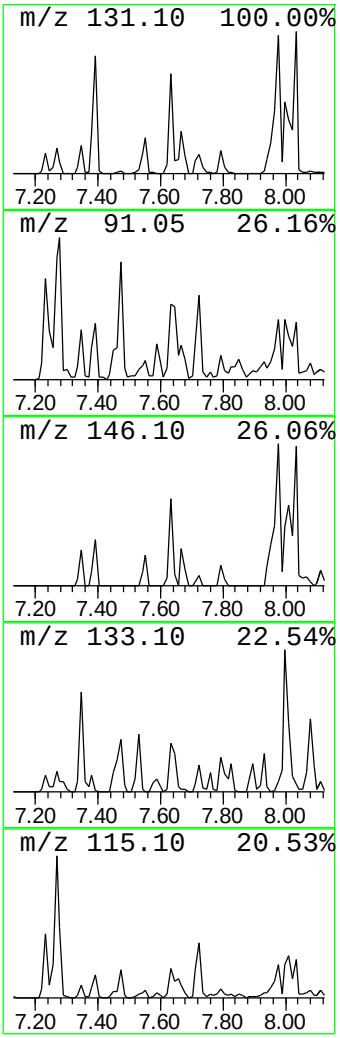
**********

Peak Number 8 2,2-Dimethylindene, 2,3-dih... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.63 | 6.93 ng | 433773 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 91 |
| 2 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 90 |
| 3 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 89 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 81 |
| 5 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

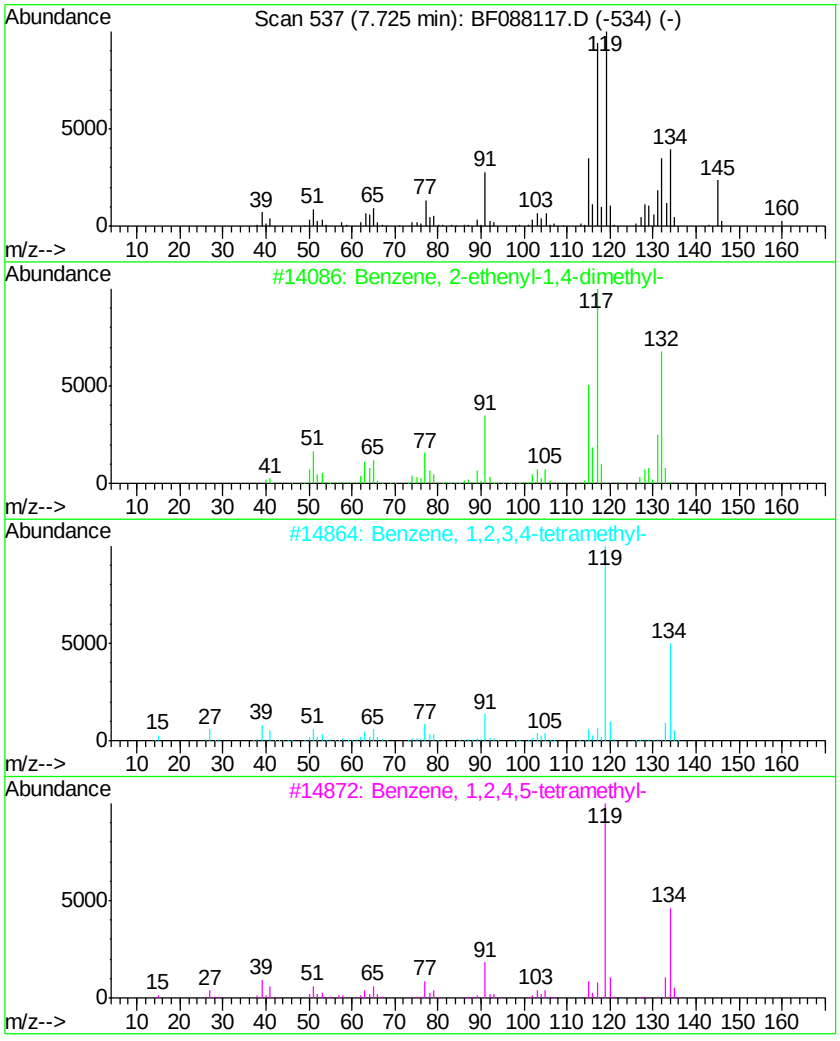
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

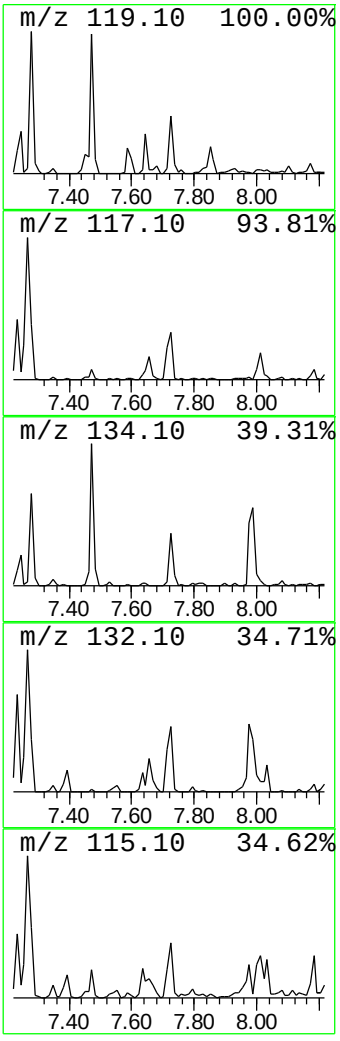
**********

Peak Number 9 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 5.65 ng | 353309 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 53 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 50 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 50 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 46 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 46 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

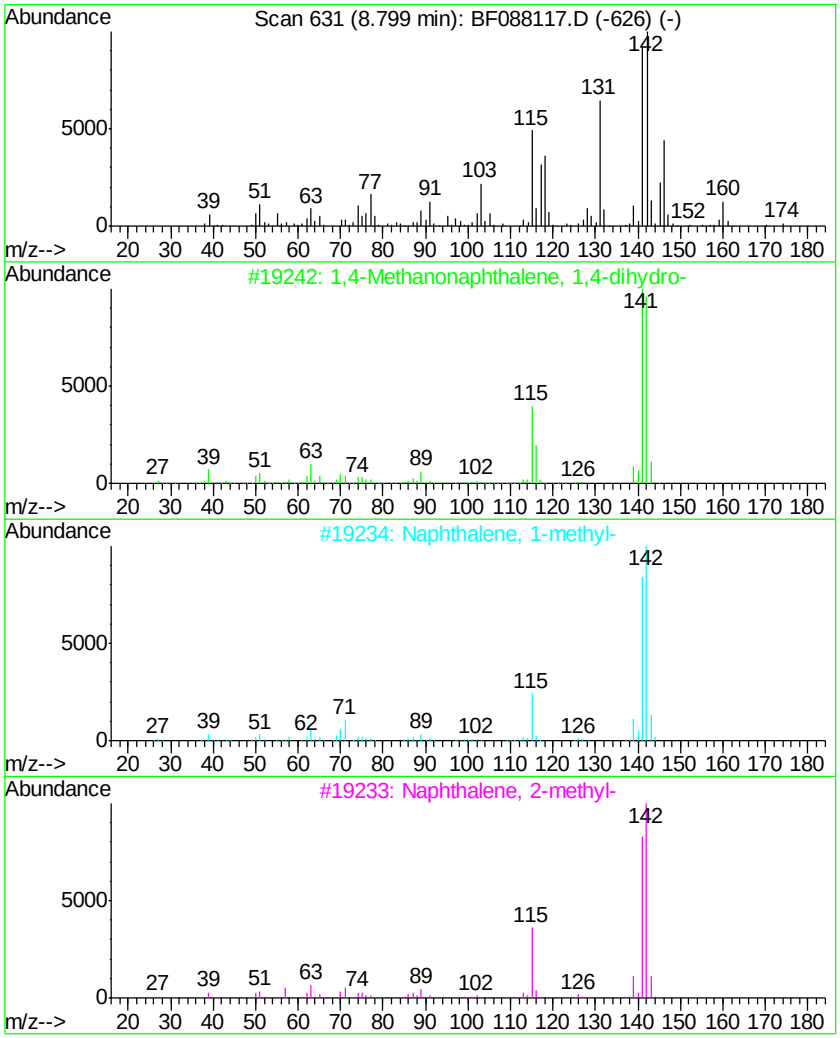
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

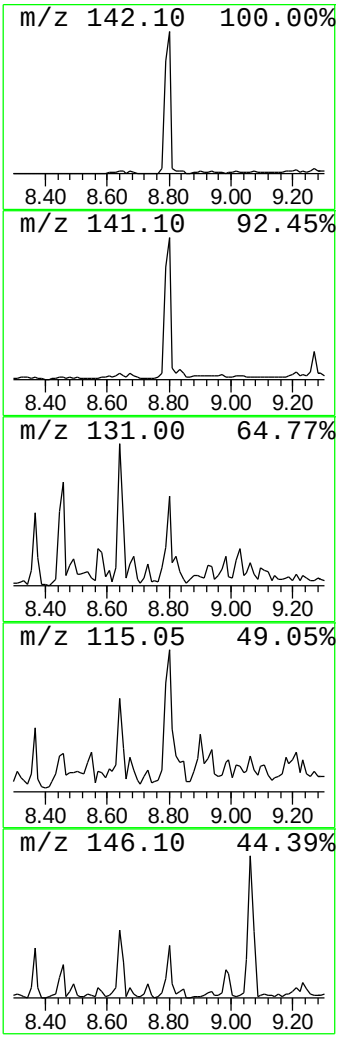
**********

Peak Number 10 1,4-Methanonaphthalene, 1,4... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.80 | 9.79 ng | 612103 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 70 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 55 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 55 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 55 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 55 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

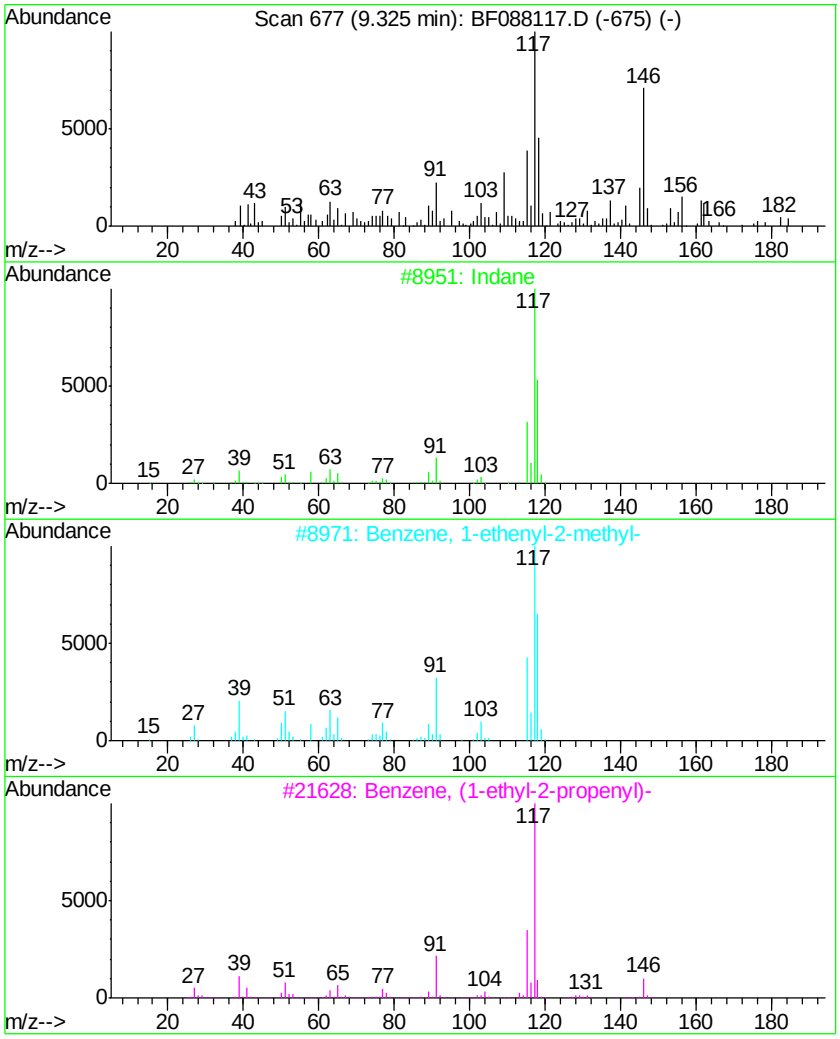
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

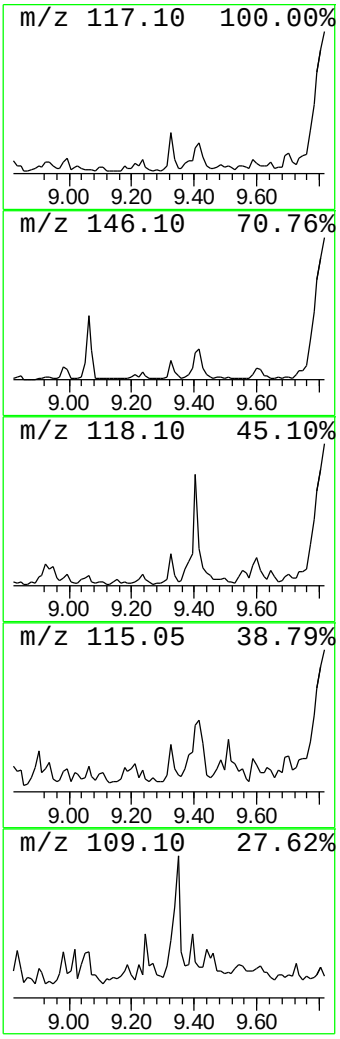
**********

Peak Number 11 Indane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.32 | 6.77 ng | 352195 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 80 |
| 2 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 64 |
| 3 | Benzene, (1-ethyl-2-propenyl)- | 146 | C11H14 | 019947-22-9 | 60 |
| 4 | Benzene, 1-pentenyl- | 146 | C11H14 | 000826-18-6 | 53 |
| 5 | 1,3,5,7-Cyclooctatetraene, 1-butyl- | 160 | C12H16 | 013402-37-4 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

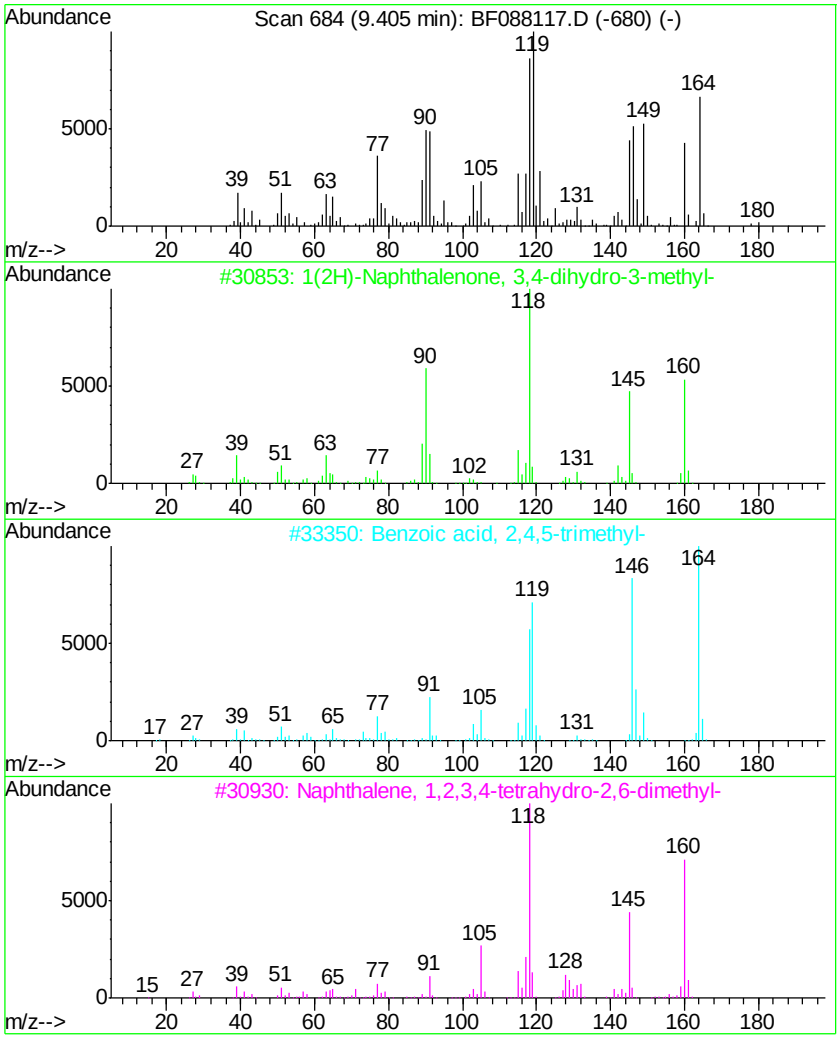
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

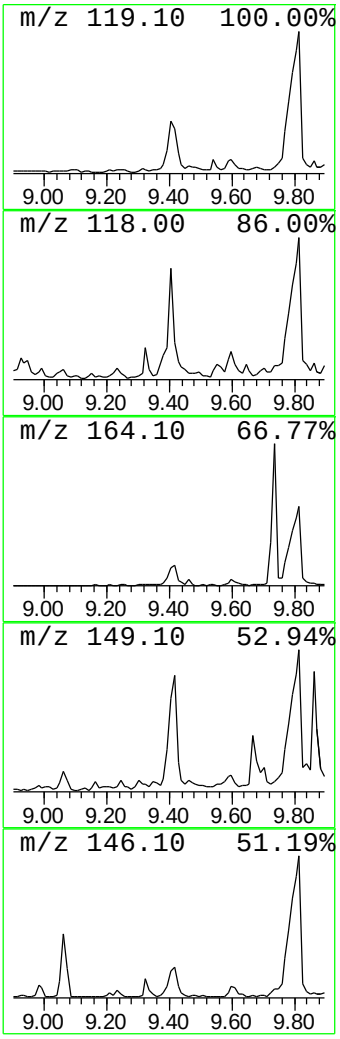
**********

Peak Number 12 1(2H)-Naphthalenone, 3,4-di... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.40 | 22.93 ng | 1192490 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Naphthalenone, 3,4-dihydro... | 160 | C11H12O | 014944-23-1 | 83 |
| 2 | Benzoic acid, 2,4,5-trimethyl- | 164 | C10H12O2 | 000528-90-5 | 78 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 007524-63-2 | 41 |
| 4 | Ethyl o-methylbenzoate | 164 | C10H12O2 | 000087-24-1 | 41 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 013065-07-1 | 41 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

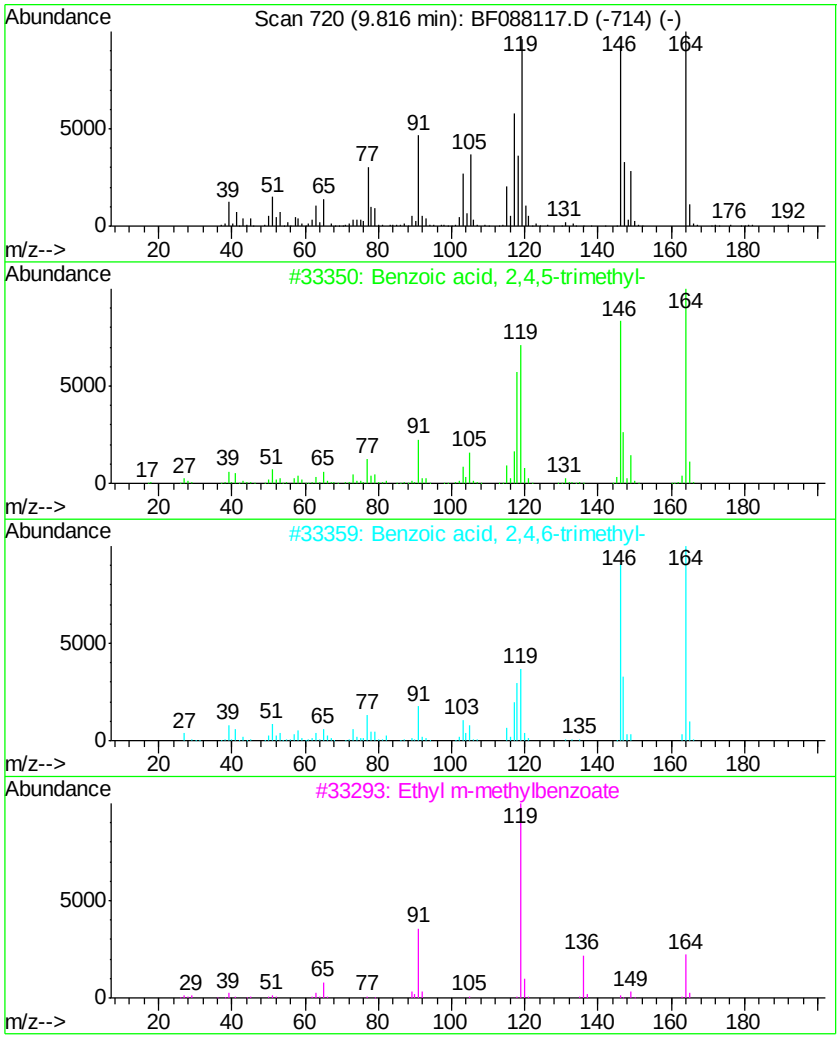
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

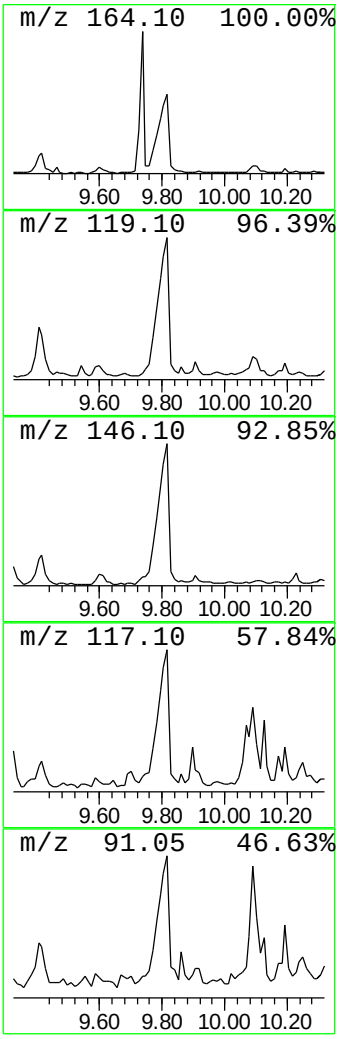
**********

Peak Number 13 Benzoic acid, 2,4,5-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.82 | 48.33 ng | 2513630 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzoic acid, 2,4,5-trimethyl- | 164 | C10H12O2 | 000528-90-5 | 83 |
| 2 | Benzoic acid, 2,4,6-trimethyl- | 164 | C10H12O2 | 000480-63-7 | 58 |
| 3 | Ethyl m-methylbenzoate | 164 | C10H12O2 | 000120-33-2 | 50 |
| 4 | Ethyl 4-methylbenzoate | 164 | C10H12O2 | 000094-08-6 | 46 |
| 5 | 3,5-Dimethylphenylacetic acid | 164 | C10H12O2 | 042288-46-0 | 43 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

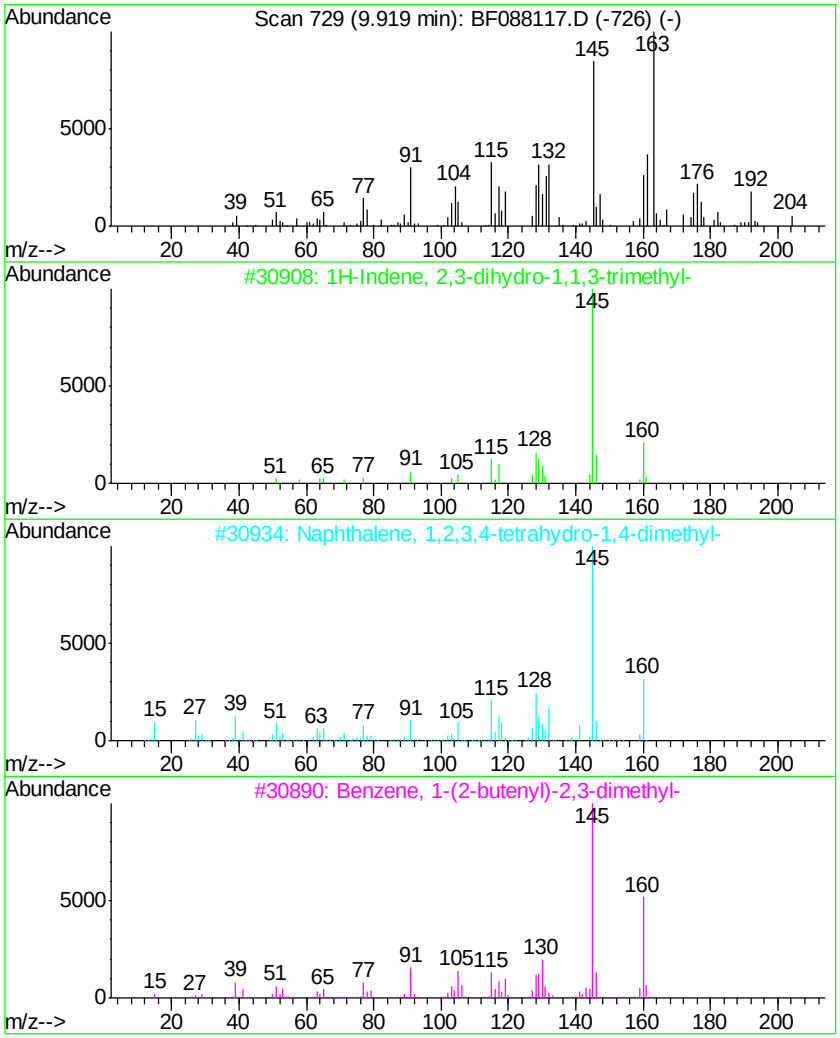
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

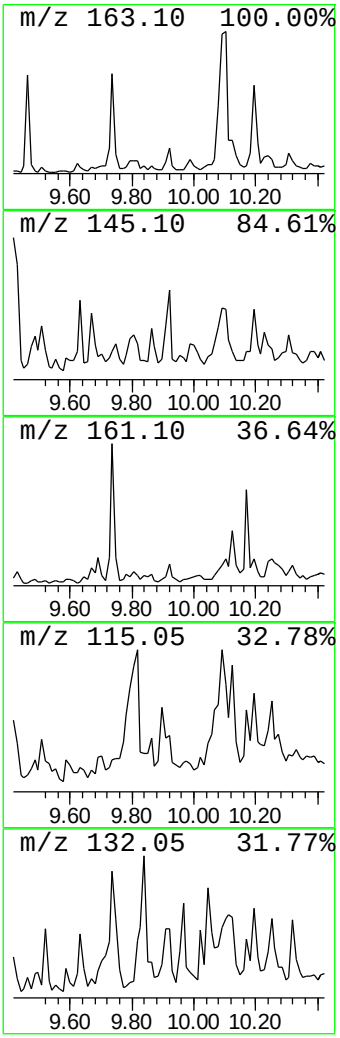
**********

Peak Number 14 unknown9.92 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.92 | 5.87 ng | 305401 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16 | 002613-76-5 | 46 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 38 |
| 3 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 35 |
| 4 | Benzene, 1-(1-methylethenyl)-2-(... | 160 | C12H16 | 005557-93-7 | 30 |
| 5 | Benzene, (1,3-dimethyl-2-butenyl)- | 160 | C12H16 | 050704-01-3 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

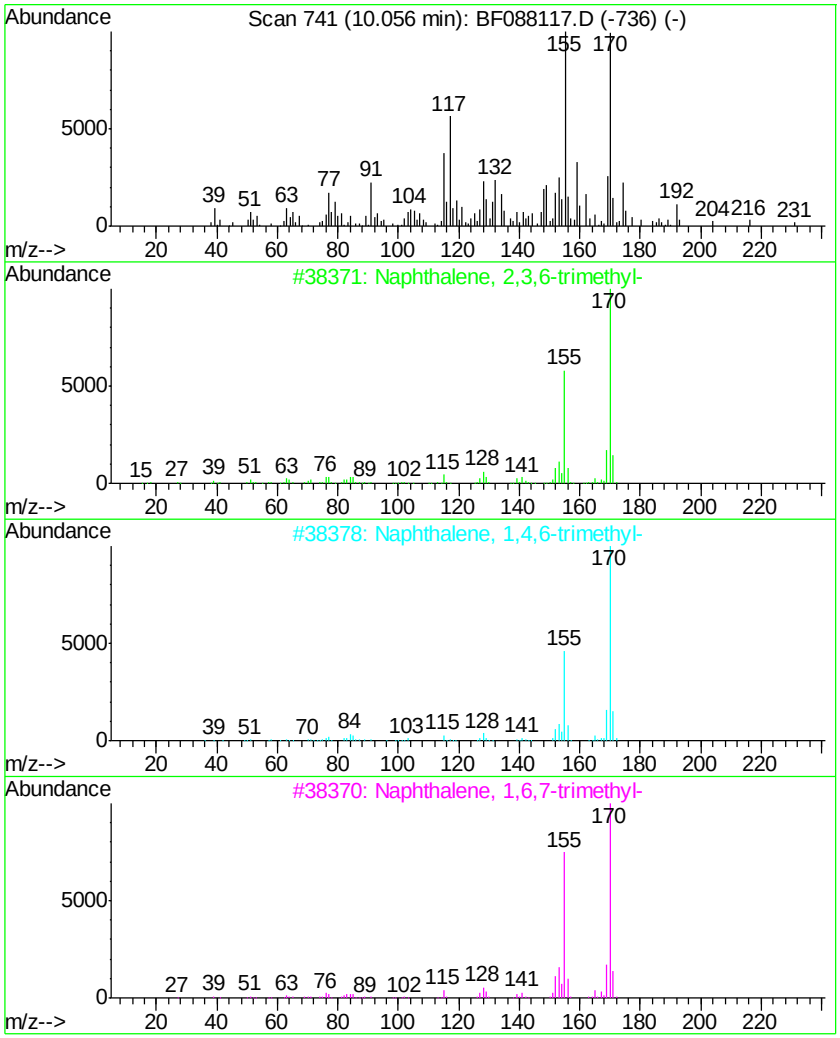
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

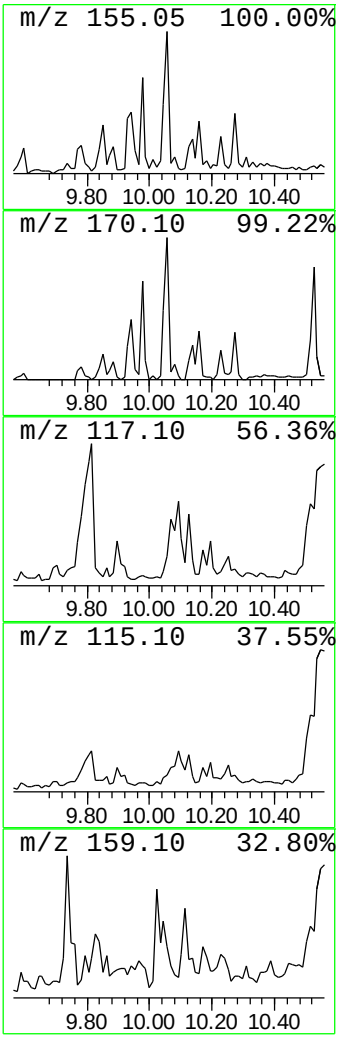
**********

Peak Number 15 Naphthalene, 2,3,6-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.06 | 8.94 ng | 465065 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 2 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 95 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 95 |
| 4 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 95 |
| 5 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

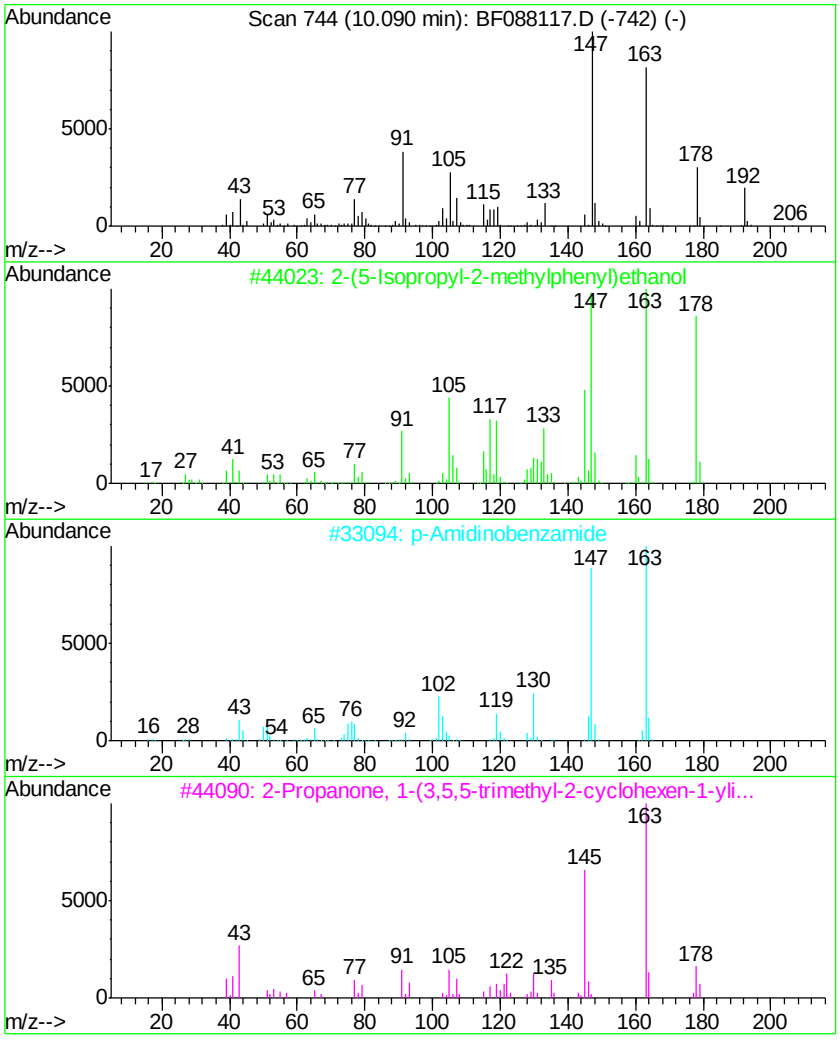
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

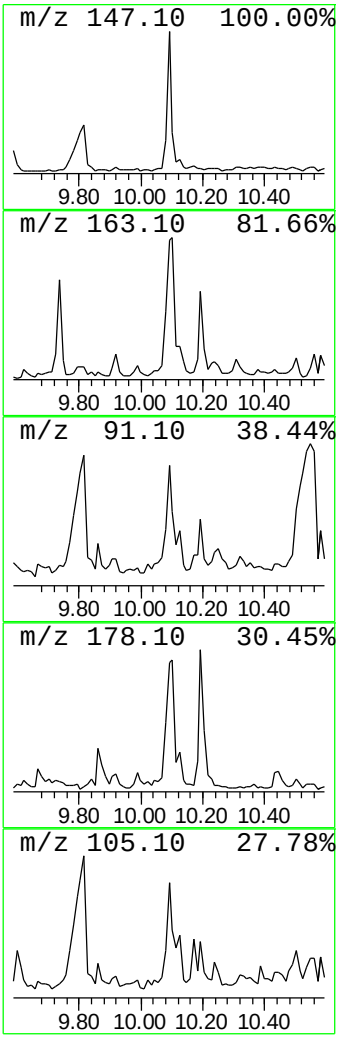
**********

Peak Number 16 2-(5-Isopropyl-2-methylphen... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.09 | 30.30 ng | 1575630 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(5-Isopropyl-2-methylphenyl)et... | 178 | C12H18O | 004389-64-4 | 59 |
| 2 | p-Amidinobenzamide | 163 | C8H9N3O | 054050-86-1 | 53 |
| 3 | 2-Propanone, 1-(3,5,5-trimethyl-... | 178 | C12H18O | 016695-72-0 | 43 |
| 4 | 2-Propanone, 1-(3,5,5-trimethyl-... | 178 | C12H18O | 016695-73-1 | 43 |
| 5 | 6-tert-Butyl-2,4-dimethylphenol | 178 | C12H18O | 001879-09-0 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

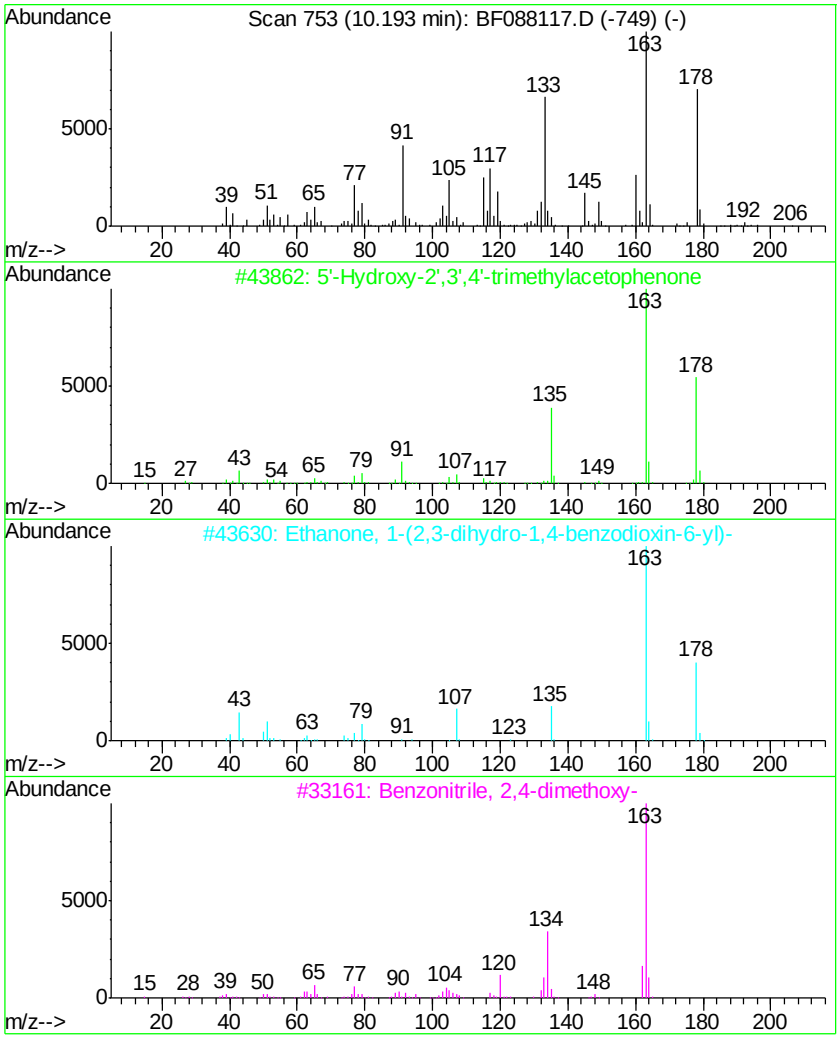
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

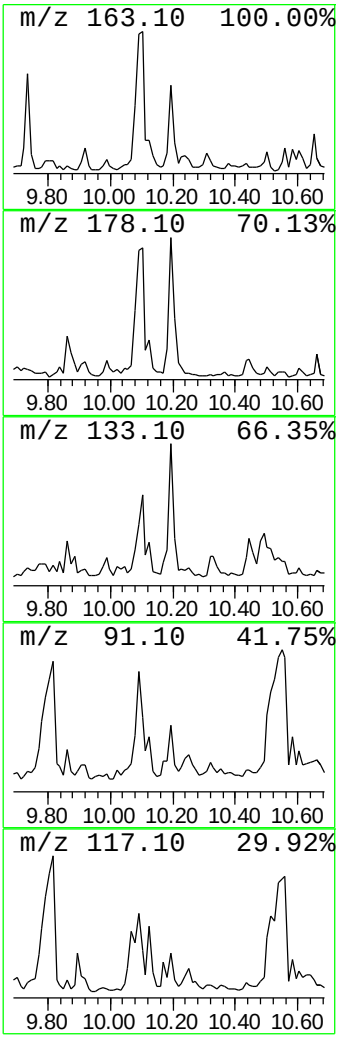
**********

Peak Number 17 unknown10.19 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.19 | 12.40 ng | 644708 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5'-Hydroxy-2',3',4'-trimethylace... | 178 | C11H14O2 | 013667-28-2 | 43 |
| 2 | Ethanone, 1-(2,3-dihydro-1,4-ben... | 178 | C10H10O3 | 002879-20-1 | 38 |
| 3 | Benzonitrile, 2,4-dimethoxy- | 163 | C9H9NO2 | 004107-65-7 | 30 |
| 4 | 2,3,5,6-Tetramethylbenzoic acid | 178 | C11H14O2 | 002604-45-7 | 30 |
| 5 | Octadecyltriethoxysilane | 416 | C24H52O3Si | 007399-00-0 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

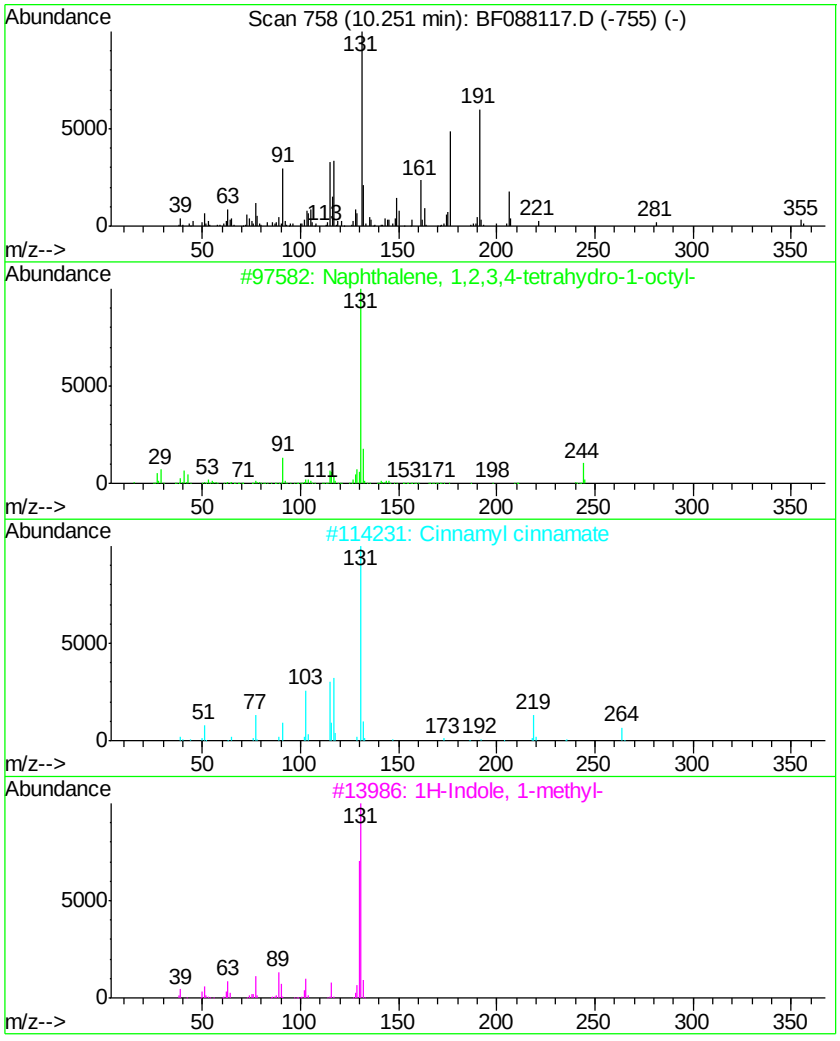
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

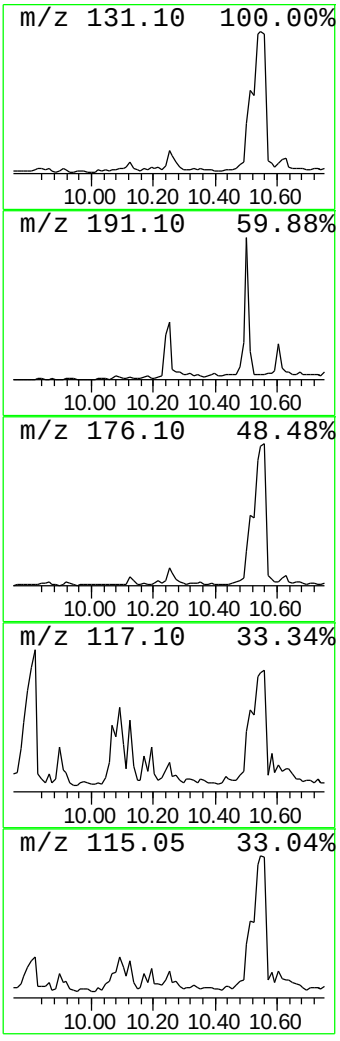
**********

Peak Number 18 unknown10.25 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.25 | 5.76 ng | 299768 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 244 | C18H28 | 029138-91-8 | 27 |
| 2 | Cinnamyl cinnamate | 264 | C18H16O2 | 000122-69-0 | 25 |
| 3 | 1H-Indole, 1-methyl- | 131 | C9H9N | 000603-76-9 | 25 |
| 4 | Benzoimidazol-1-yl-acetic acid | 176 | C9H8N2O2 | 1000317-79-2 | 25 |
| 5 | dl-7-Azatryptophan | 205 | C10H11N3O2 | 001137-00-4 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

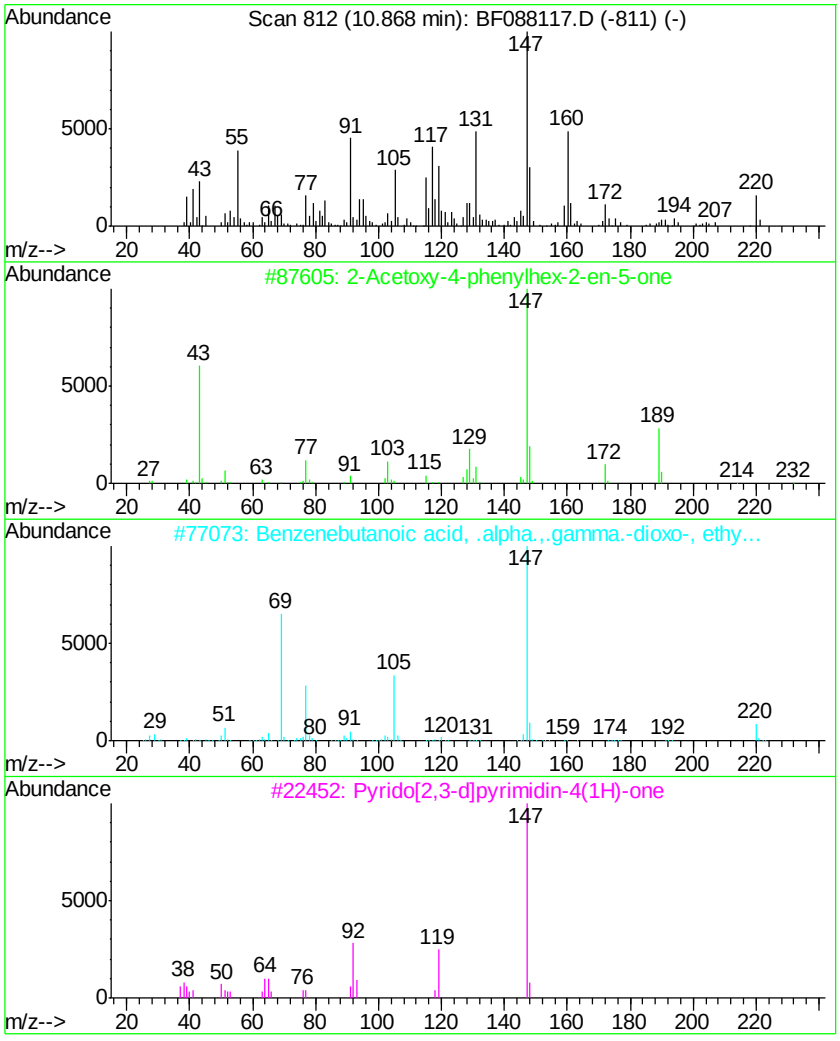
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

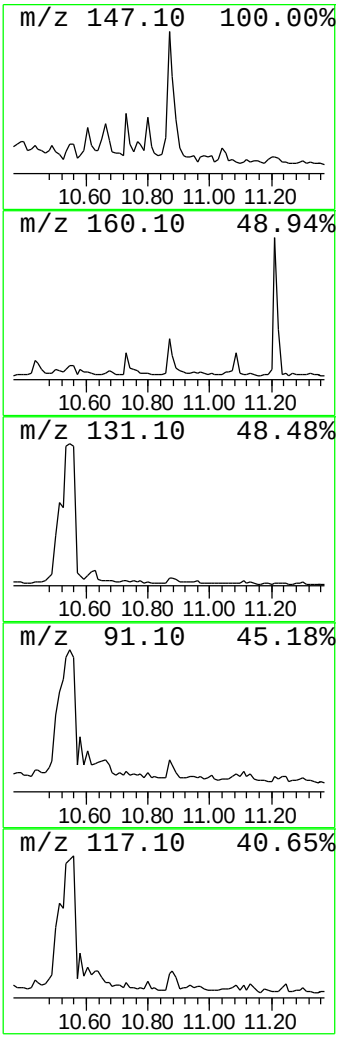
**********

Peak Number 19 unknown10.87 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.87 | 6.18 ng | 274237 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Acetoxy-4-phenylhex-2-en-5-one | 232 | C14H16O3 | 183483-46-7 | 27 |
| 2 | Benzenebutanoic acid, .alpha.,.g... | 220 | C12H12O4 | 006296-54-4 | 25 |
| 3 | Pyrido[2,3-d]pyrimidin-4(1H)-one | 147 | C7H5N3O | 024410-19-3 | 22 |
| 4 | Cyclopropanamine, N-methyl-1-phe... | 147 | C10H13N | 056771-48-3 | 22 |
| 5 | 2,4-Pentanedione, 3-(phenylmethyl)- | 190 | C12H14O2 | 001134-87-8 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

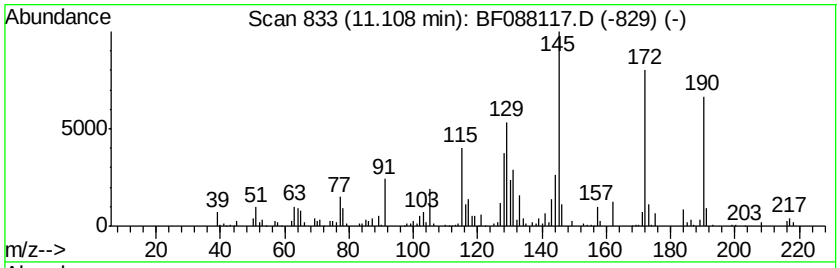
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

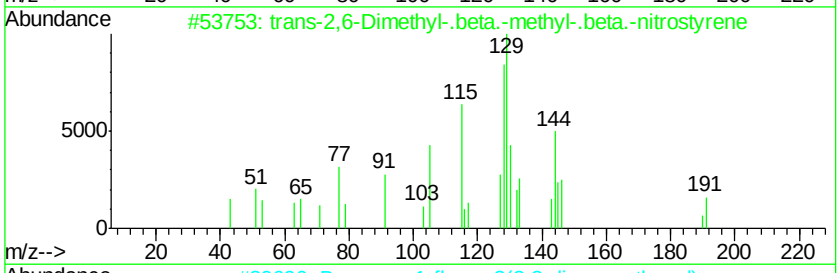
**********

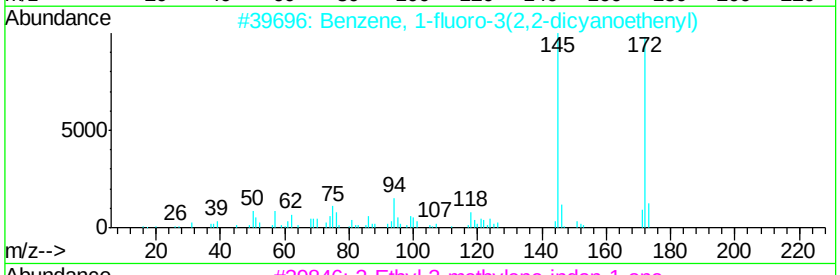
Peak Number 20 trans-2,6-Dimethyl-.beta.-m... Concentration Rank 9

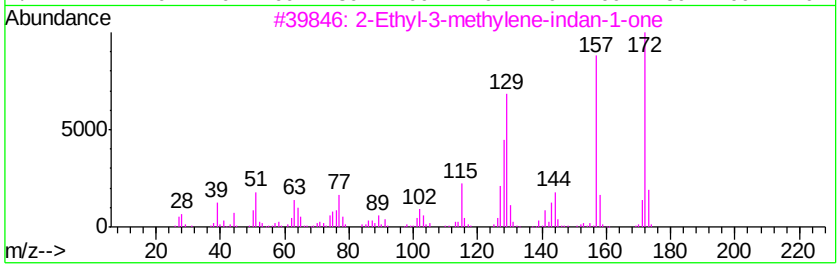
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.11 | 10.31 ng | 457205 | Phenanthrene-d10 | 11.21 |

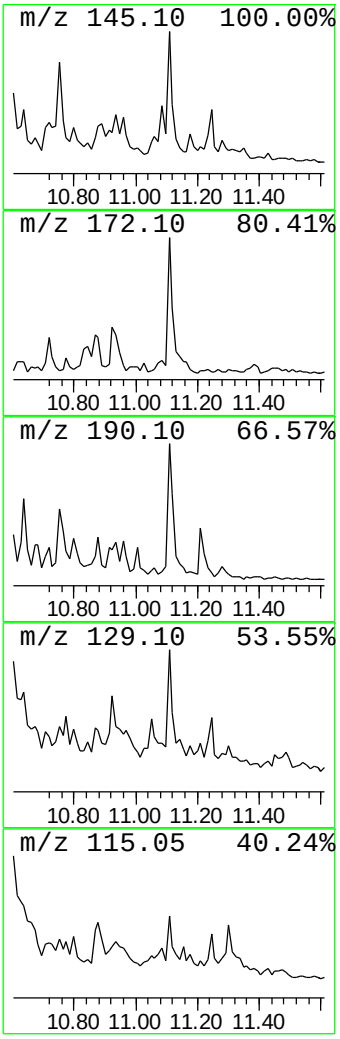
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-2,6-Dimethyl-.beta.-methyl... | 191 | C11H13NO2 | 147102-59-8 | 81 |
| 2 | Benzene, 1-fluoro-3(2,2-dicyanoe... | 172 | C10H5FN2 | 002972-71-6 | 42 |
| 3 | 2-Ethyl-3-methylene-indan-1-one | 172 | C12H12O | 1000187-41-4 | 41 |
| 4 | 1-(4-Tolyl)-1-cyclohexene | 172 | C13H16 | 001821-23-4 | 41 |
| 5 | 2-Cyclopenten-1-one, 3-methyl-2-... | 172 | C12H12O | 050397-92-7 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061716\
Data File : BF088117.D
Acq On : 18 Jun 2016 3:36
Operator : UM/SJ
Sample : H3542-09
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-20

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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 |
| unknown6.47 | 6.47 | 68.3 | ng | 2190370 | 1 | 6.70 | 641634 | 20.0 |
| Benzene, 1,2-diet... | 6.95 | 7.0 | ng | 225305 | 1 | 6.70 | 641634 | 20.0 |
| Benzene, 1,2,3,4-... | 7.47 | 6.2 | ng | 384713 | 2 | 7.99 | 1251050 | 20.0 |
| 2,2-Dimethylinden... | 7.63 | 6.9 | ng | 433773 | 2 | 7.99 | 1251050 | 20.0 |
| Benzene, 2-etheny... | 7.72 | 5.7 | ng | 353309 | 2 | 7.99 | 1251050 | 20.0 |
| 1,4-Methanonaphth... | 8.80 | 9.8 | ng | 612103 | 2 | 7.99 | 1251050 | 20.0 |
| Indane | 9.32 | 6.8 | ng | 352195 | 3 | 9.74 | 1040140 | 20.0 |
| 1(2H)-Naphthaleno... | 9.40 | 22.9 | ng | 1192490 | 3 | 9.74 | 1040140 | 20.0 |
| Benzoic acid, 2,4... | 9.82 | 48.3 | ng | 2513630 | 3 | 9.74 | 1040140 | 20.0 |
| unknown9.92 | 9.92 | 5.9 | ng | 305401 | 3 | 9.74 | 1040140 | 20.0 |
| Naphthalene, 2,3,... | 10.06 | 8.9 | ng | 465065 | 3 | 9.74 | 1040140 | 20.0 |
| 2-(5-Isopropyl-2-... | 10.09 | 30.3 | ng | 1575630 | 3 | 9.74 | 1040140 | 20.0 |
| unknown10.19 | 10.19 | 12.4 | ng | 644708 | 3 | 9.74 | 1040140 | 20.0 |
| unknown10.25 | 10.25 | 5.8 | ng | 299768 | 3 | 9.74 | 1040140 | 20.0 |
| unknown10.87 | 10.87 | 6.2 | ng | 274237 | 4 | 11.21 | 886801 | 20.0 |
| trans-2,6-Dimethy... | 11.11 | 10.3 | ng | 457205 | 4 | 11.21 | 886801 | 20.0 |