LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

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-BF013017.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 | 5.127 | 264 | 266 | 270 | rBV | 716625 | 801258 | 14.61% | 1.666% |
| 2 | 5.550 | 301 | 303 | 306 | rBV | 2125804 | 2398751 | 43.73% | 4.986% |
| 3 | 6.099 | 349 | 351 | 353 | rBV | 51406 | 56852 | 1.04% | 0.118% |
| 4 | 6.579 | 391 | 393 | 396 | rBV | 1661914 | 1596793 | 29.11% | 3.319% |
| 5 | 6.716 | 402 | 405 | 407 | rBV | 3966592 | 3827133 | 69.76% | 7.956% |
| 6 | 6.899 | 417 | 421 | 423 | rBV | 91090 | 127326 | 2.32% | 0.265% |
| 7 | 6.944 | 423 | 425 | 427 | rBV | 1343458 | 1140803 | 20.80% | 2.371% |
| 8 | 7.104 | 436 | 439 | 441 | rBV | 3697663 | 3612775 | 65.86% | 7.510% |
| 9 | 7.196 | 445 | 447 | 448 | rVB | 115421 | 106432 | 1.94% | 0.221% |
| 10 | 7.287 | 452 | 455 | 457 | rBV | 259575 | 258881 | 4.72% | 0.538% |
| 11 | 7.344 | 457 | 460 | 465 | rBV5 | 44818 | 94752 | 1.73% | 0.197% |
| 12 | 7.516 | 467 | 475 | 477 | rBV | 3251380 | 3760485 | 68.55% | 7.817% |
| 13 | 7.596 | 480 | 482 | 484 | rVV2 | 138568 | 165112 | 3.01% | 0.343% |
| 14 | 7.642 | 484 | 486 | 488 | rVB | 168821 | 176826 | 3.22% | 0.368% |
| 15 | 7.722 | 488 | 493 | 495 | rVB2 | 383454 | 488816 | 8.91% | 1.016% |
| 16 | 7.767 | 495 | 497 | 498 | rBV2 | 55595 | 61050 | 1.11% | 0.127% |
| 17 | 7.882 | 504 | 507 | 512 | rBV3 | 230257 | 384103 | 7.00% | 0.798% |
| 18 | 7.973 | 512 | 515 | 517 | rBV2 | 98758 | 157706 | 2.87% | 0.328% |
| 19 | 8.042 | 519 | 521 | 525 | rBV5 | 77858 | 169928 | 3.10% | 0.353% |
| 20 | 8.145 | 528 | 530 | 531 | rBV2 | 45984 | 58051 | 1.06% | 0.121% |
| 21 | 8.179 | 531 | 533 | 534 | rVB | 58719 | 62879 | 1.15% | 0.131% |
| 22 | 8.236 | 534 | 538 | 541 | rBV | 1764095 | 1997178 | 36.41% | 4.152% |
| 23 | 8.282 | 541 | 542 | 544 | rVB2 | 168825 | 137283 | 2.50% | 0.285% |
| 24 | 8.396 | 550 | 552 | 553 | rBV | 37863 | 70978 | 1.29% | 0.148% |
| 25 | 8.430 | 553 | 555 | 557 | rVV | 276966 | 258113 | 4.71% | 0.537% |
| 26 | 8.476 | 557 | 559 | 561 | rVB | 177382 | 205384 | 3.74% | 0.427% |
| 27 | 8.522 | 561 | 563 | 565 | rBV3 | 58728 | 92508 | 1.69% | 0.192% |
| 28 | 8.613 | 569 | 571 | 574 | rVB3 | 160295 | 217549 | 3.97% | 0.452% |
| 29 | 8.705 | 574 | 579 | 581 | rBV4 | 123771 | 350832 | 6.40% | 0.729% |
| 30 | 8.773 | 582 | 585 | 586 | rBV2 | 70208 | 86244 | 1.57% | 0.179% |
| 31 | 8.796 | 586 | 587 | 589 | rVB | 177584 | 166125 | 3.03% | 0.345% |
| 32 | 8.865 | 589 | 593 | 594 | rBV4 | 57871 | 117789 | 2.15% | 0.245% |
| 33 | 8.899 | 594 | 596 | 598 | rVV2 | 92679 | 93438 | 1.70% | 0.194% |
| 34 | 8.933 | 598 | 599 | 601 | rBV2 | 35963 | 62636 | 1.14% | 0.130% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

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-BF013017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.013 | 604 | 606 | 608 | rVV2 | 91664 | 151980 | 2.77% | 0.316% |
| 36 | 9.059 | 608 | 610 | 611 | rVV2 | 132821 | 190737 | 3.48% | 0.396% |
| 37 | 9.162 | 615 | 619 | 623 | rBV2 | 182792 | 611291 | 11.14% | 1.271% |
| 38 | 9.242 | 623 | 626 | 627 | rVV2 | 150969 | 229215 | 4.18% | 0.476% |
| 39 | 9.276 | 627 | 629 | 630 | rVV2 | 181202 | 188234 | 3.43% | 0.391% |
| 40 | 9.322 | 630 | 633 | 634 | rVV | 4960025 | 5485773 | 100.00% | 11.404% |
| 41 | 9.345 | 634 | 635 | 638 | rVB2 | 196080 | 205368 | 3.74% | 0.427% |
| 42 | 9.448 | 639 | 644 | 645 | rBV4 | 133404 | 288839 | 5.27% | 0.600% |
| 43 | 9.505 | 645 | 649 | 652 | rVB4 | 117852 | 340669 | 6.21% | 0.708% |
| 44 | 9.619 | 657 | 659 | 660 | rVV2 | 64627 | 105384 | 1.92% | 0.219% |
| 45 | 9.653 | 660 | 662 | 664 | rVV3 | 282705 | 476737 | 8.69% | 0.991% |
| 46 | 9.710 | 666 | 667 | 669 | rVV | 243744 | 273914 | 4.99% | 0.569% |
| 47 | 9.768 | 669 | 672 | 673 | rVV2 | 205925 | 367578 | 6.70% | 0.764% |
| 48 | 9.859 | 677 | 680 | 682 | rVB2 | 176008 | 280486 | 5.11% | 0.583% |
| 49 | 9.996 | 690 | 692 | 694 | rVB | 1764202 | 1546848 | 28.20% | 3.215% |
| 50 | 10.305 | 717 | 719 | 722 | rBV4 | 163279 | 357369 | 6.51% | 0.743% |
| 51 | 10.613 | 744 | 746 | 747 | rBV | 66438 | 80645 | 1.47% | 0.168% |
| 52 | 10.739 | 755 | 757 | 759 | rBV | 230192 | 321959 | 5.87% | 0.669% |
| 53 | 10.796 | 759 | 762 | 764 | rVB | 2541392 | 2945700 | 53.70% | 6.123% |
| 54 | 10.899 | 770 | 771 | 776 | rVB4 | 97991 | 187067 | 3.41% | 0.389% |
| 55 | 11.356 | 808 | 811 | 813 | rBV4 | 115723 | 236307 | 4.31% | 0.491% |
| 56 | 11.482 | 820 | 822 | 825 | rBV | 1049652 | 1453599 | 26.50% | 3.022% |
| 57 | 11.699 | 838 | 841 | 844 | rBV | 333175 | 457074 | 8.33% | 0.950% |
| 58 | 12.019 | 867 | 869 | 872 | rBV3 | 121171 | 130660 | 2.38% | 0.272% |
| 59 | 12.854 | 940 | 942 | 947 | rVB | 322025 | 376282 | 6.86% | 0.782% |
| 60 | 13.071 | 958 | 961 | 964 | rBV | 3595677 | 4652344 | 84.81% | 9.671% |
| 61 | 13.848 | 1028 | 1029 | 1032 | rBV2 | 79835 | 124604 | 2.27% | 0.259% |
| 62 | 13.962 | 1037 | 1039 | 1043 | rVB2 | 47076 | 79034 | 1.44% | 0.164% |
| 63 | 14.122 | 1050 | 1053 | 1055 | rBV | 1472486 | 1329898 | 24.24% | 2.765% |
| 64 | 15.597 | 1178 | 1182 | 1187 | rVB | 703614 | 1141350 | 20.81% | 2.373% |
| 65 | 16.557 | 1263 | 1266 | 1273 | rVB | 32814 | 69850 | 1.27% | 0.145% |
| 66 | 17.163 | 1315 | 1319 | 1321 | rBV2 | 20019 | 56458 | 1.03% | 0.117% |

Sum of corrected areas: 48106022

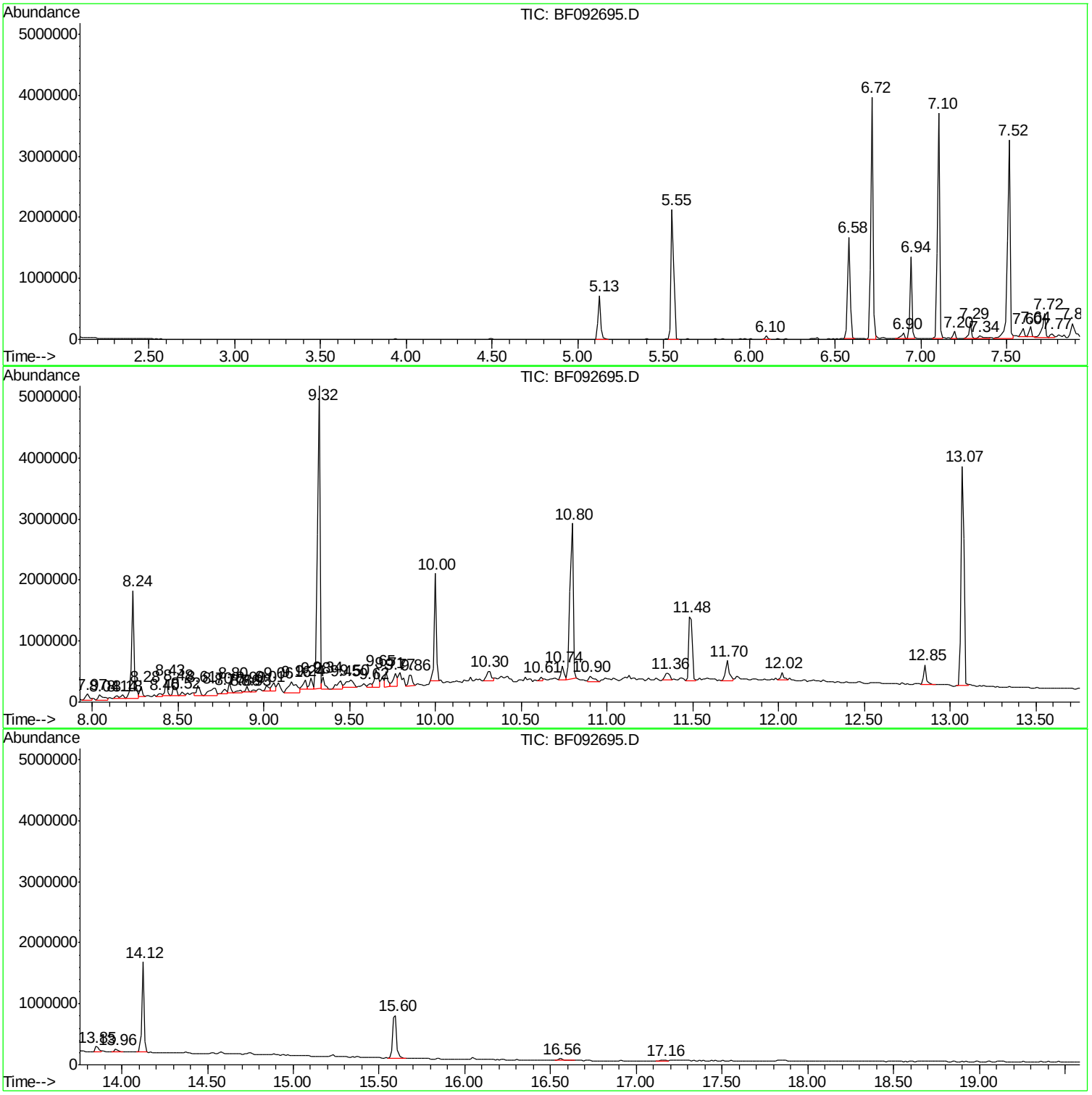
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

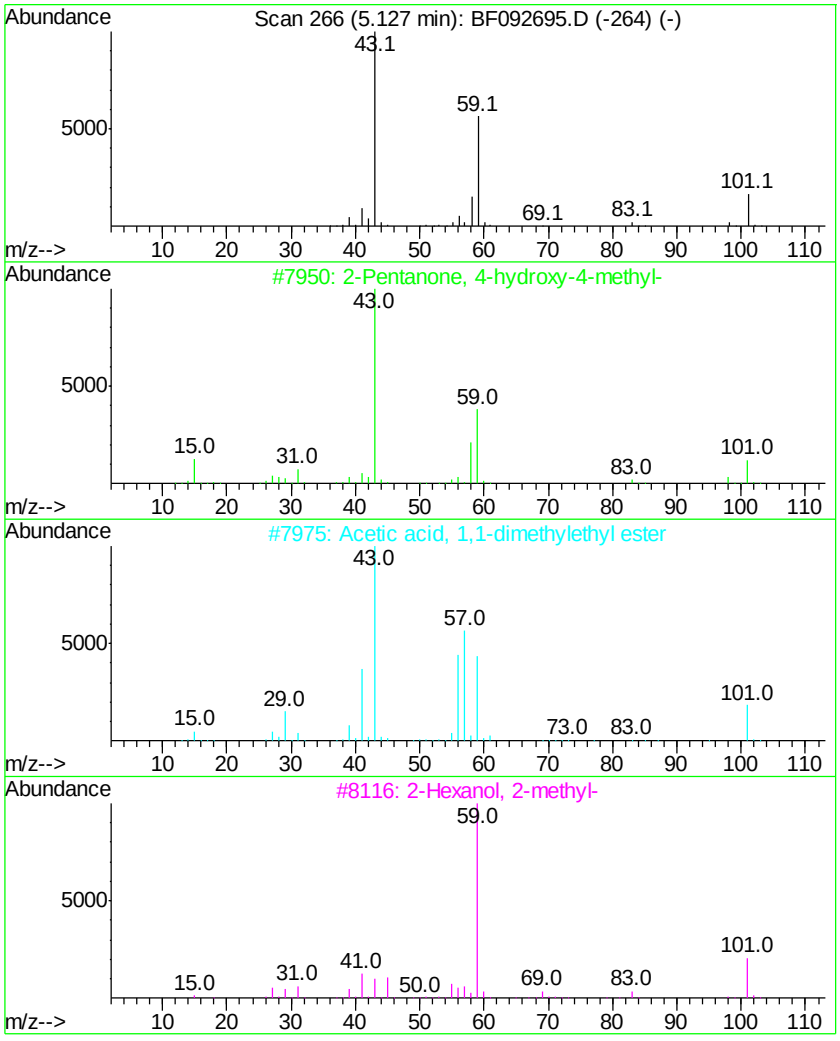
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

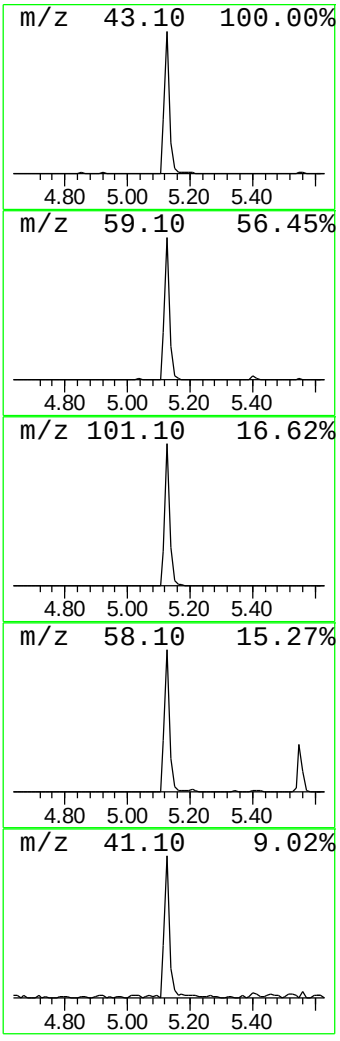
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.13 | 14.05 ng | 801258 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 45 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 33 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

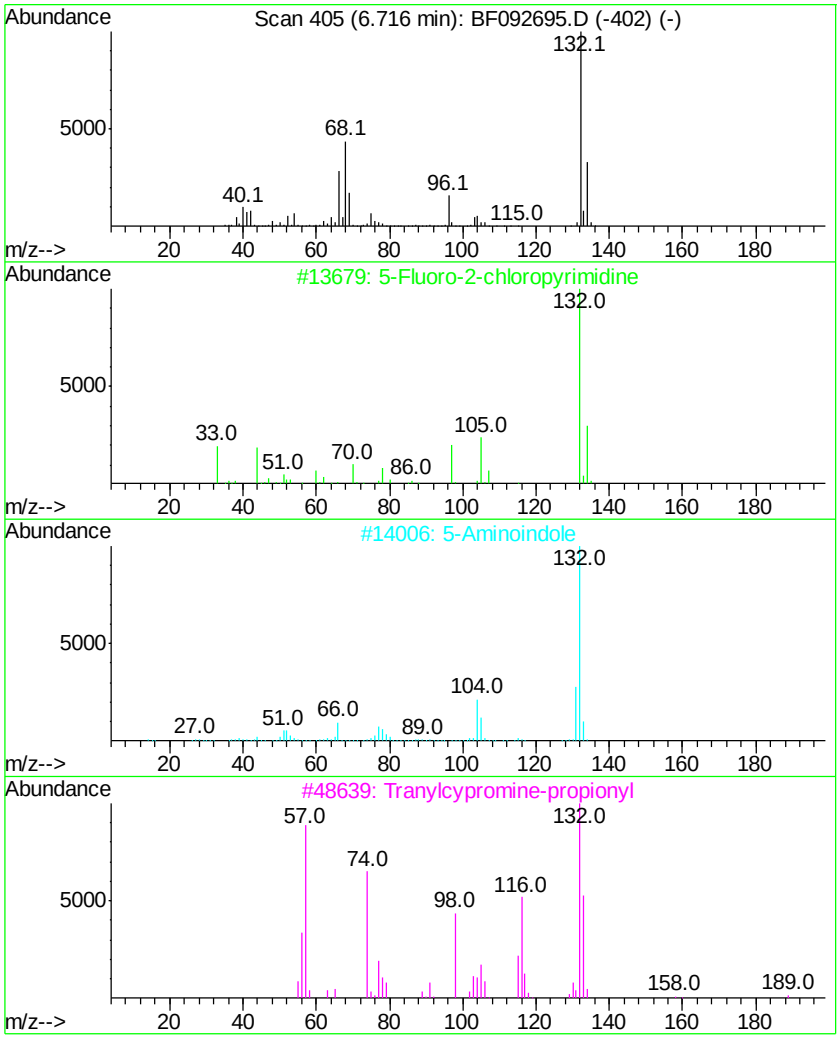
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

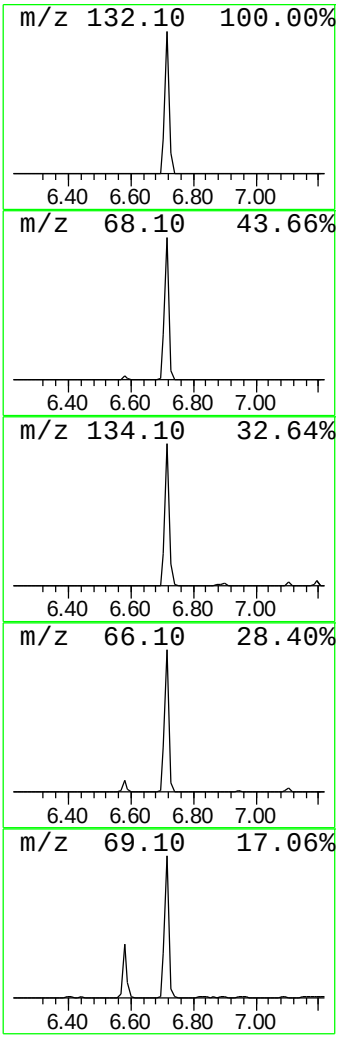
**********

Peak Number 2 unknown6.72 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.72 | 67.10 ng | 3827130 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

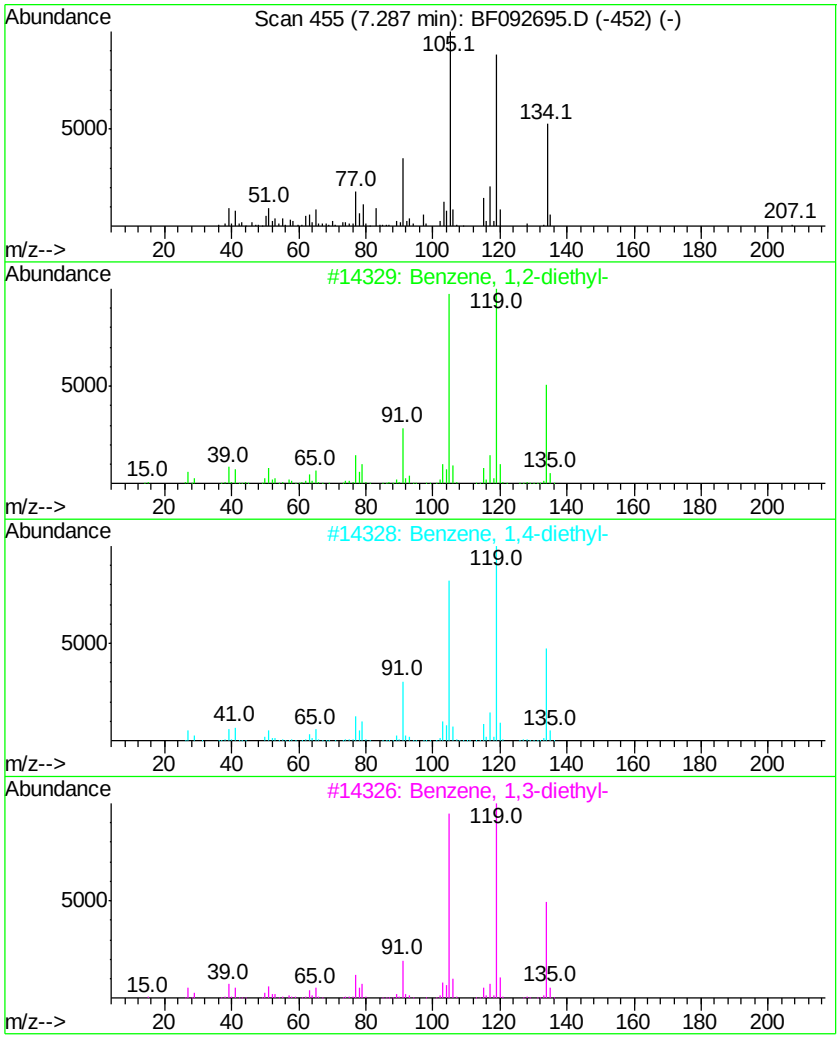
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

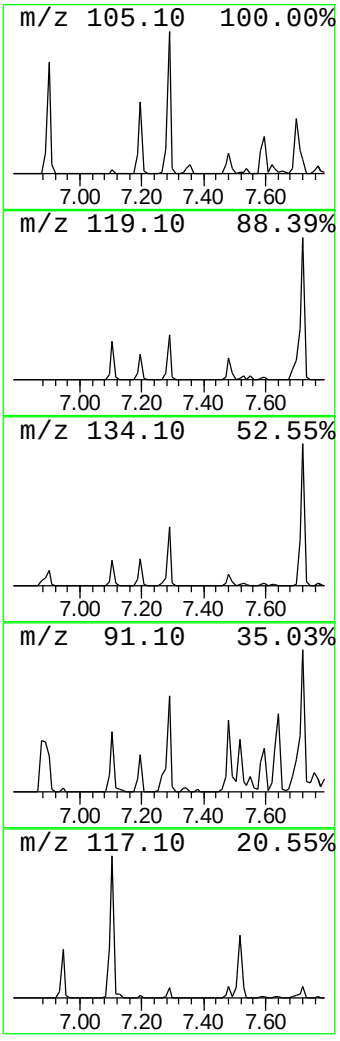
**********

Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.29 | 4.54 ng | 258881 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 97 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 95 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 87 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 87 |
| 5 | 1,3,8-p-Menthatriene | 134 | C10H14 | 021195-59-5 | 80 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

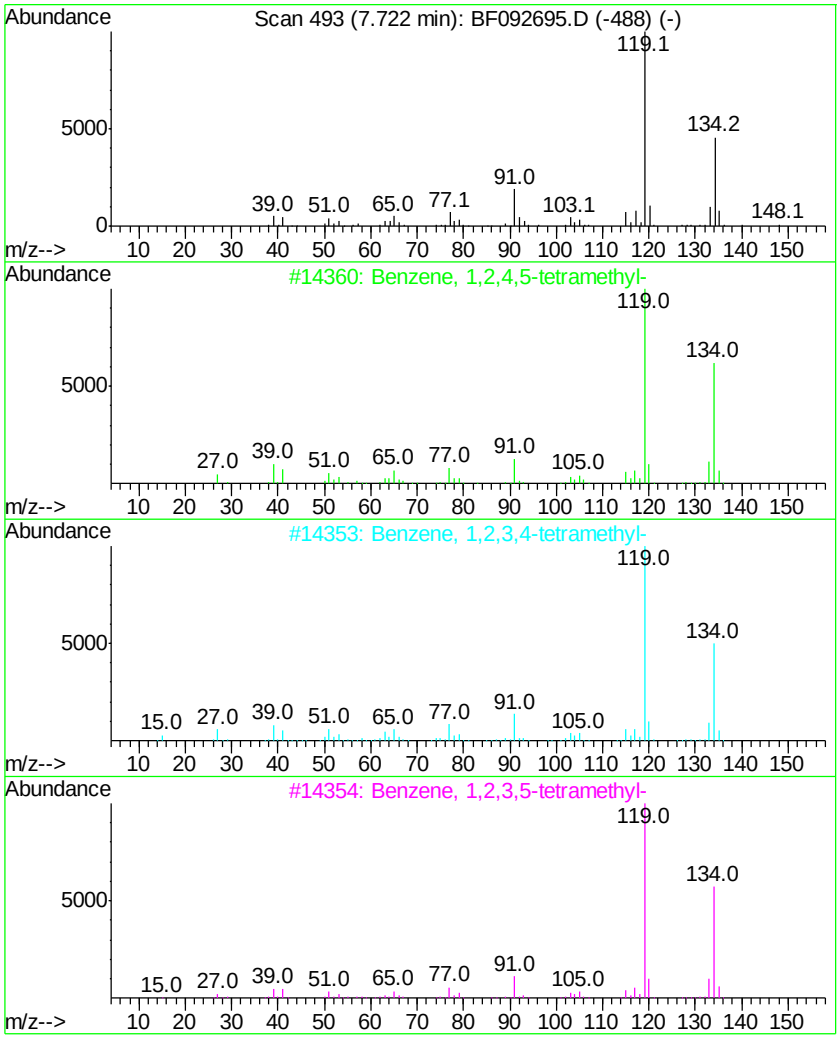
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

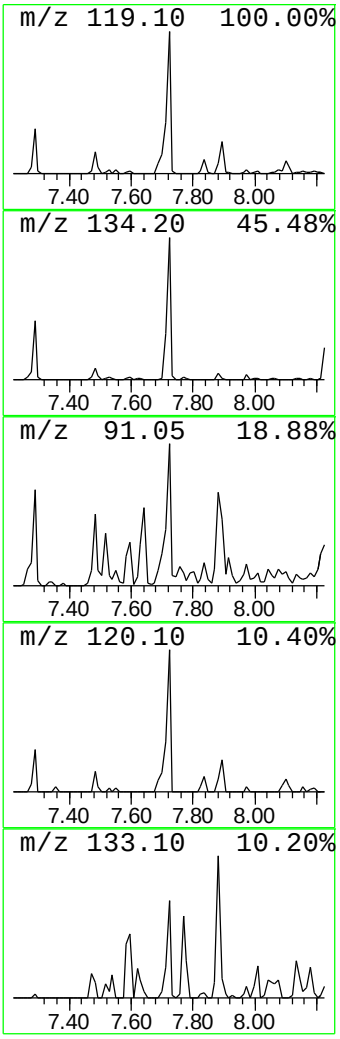
**********

Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 4.90 ng | 488816 | Naphthalene-d8 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

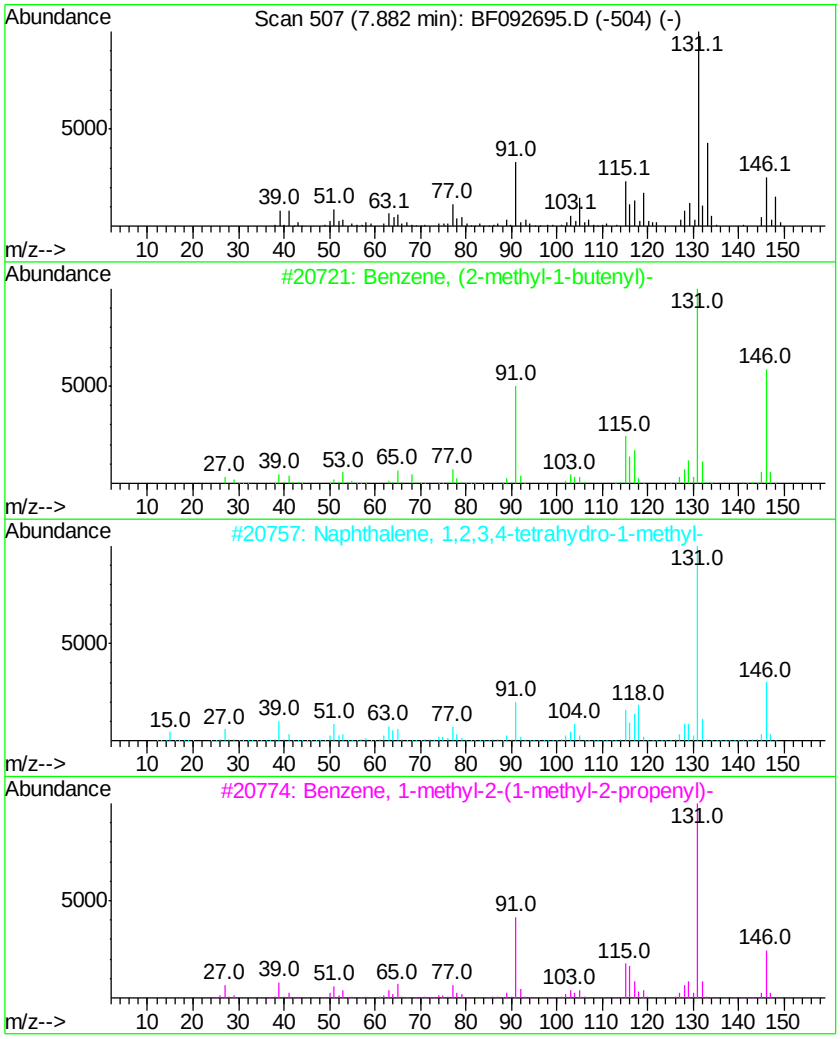
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

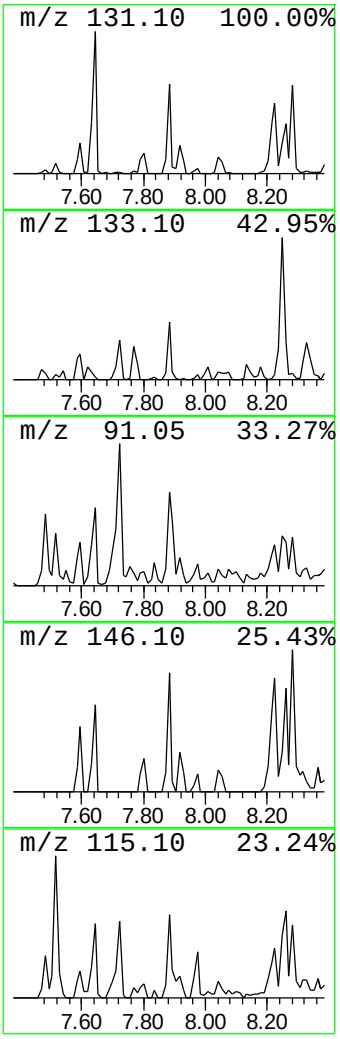
**********

Peak Number 6 Benzene, (2-methyl-1-butenyl)- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.88 | 3.85 ng | 384103 | Naphthalene-d8 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 90 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 83 |
| 3 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 70 |
| 4 | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14 | 097664-18-1 | 70 |
| 5 | 1H-Indene,2,3-dihydro-2,2-dimethyl- | 146 | C11H14 | 020836-11-7 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

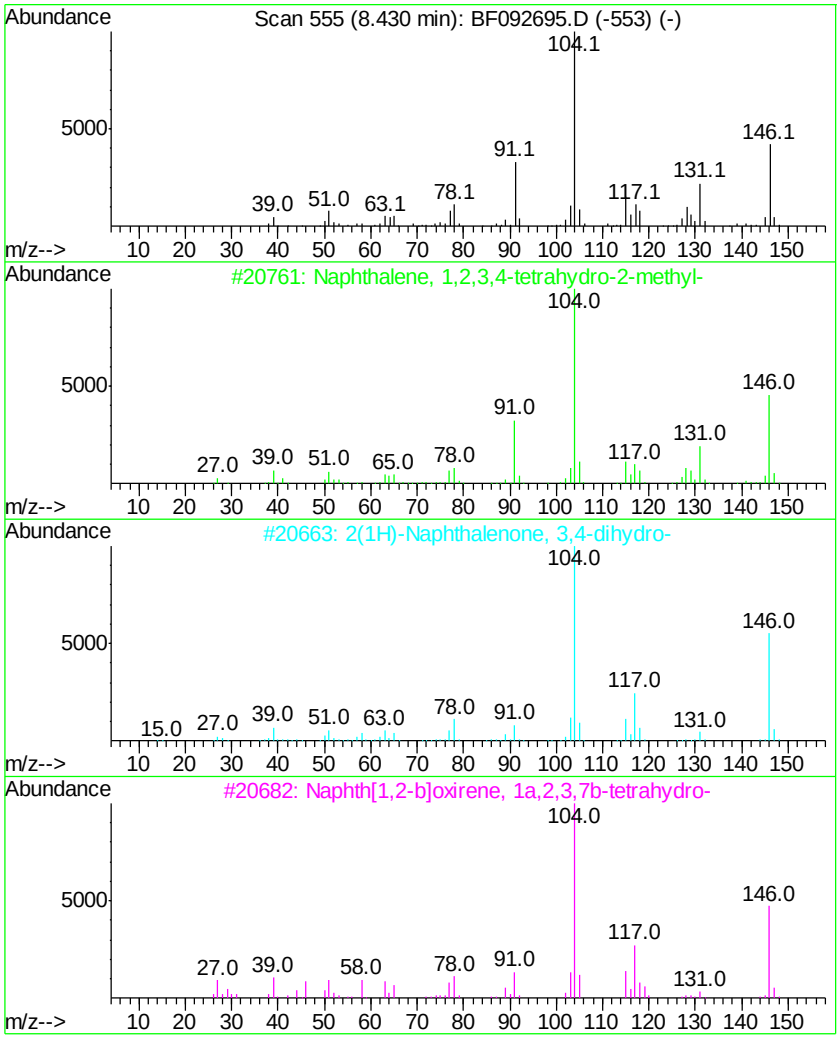
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

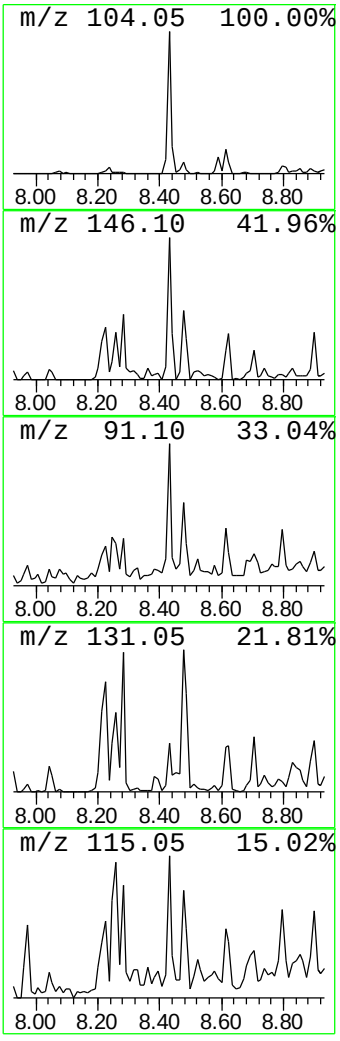
**********

Peak Number 7 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.43 | 2.58 ng | 258113 | Naphthalene-d8 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 96 |
| 2 | 2(1H)-Naphthalenone, 3,4-dihydro- | 146 | C10H10O | 000530-93-8 | 62 |
| 3 | Naphth[1,2-b]oxirene, 1a,2,3,7b-... | 146 | C10H10O | 002461-34-9 | 43 |
| 4 | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16 | 020071-09-4 | 35 |
| 5 | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16 | 007694-30-6 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

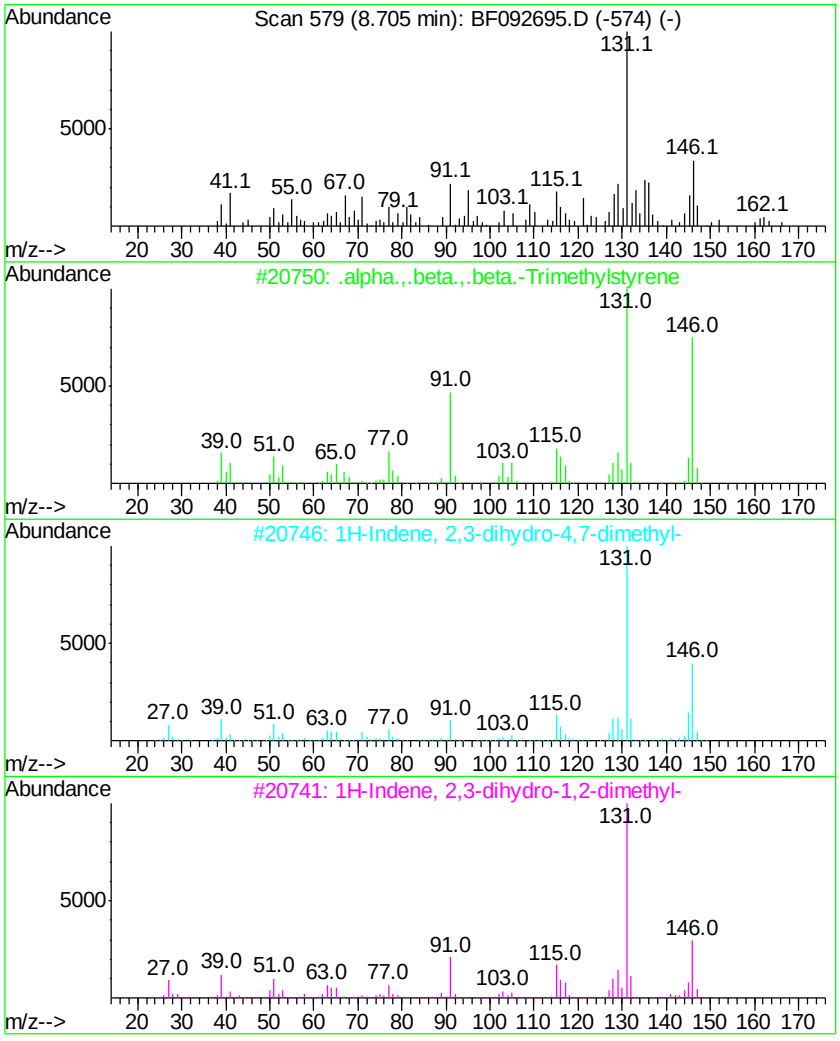
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

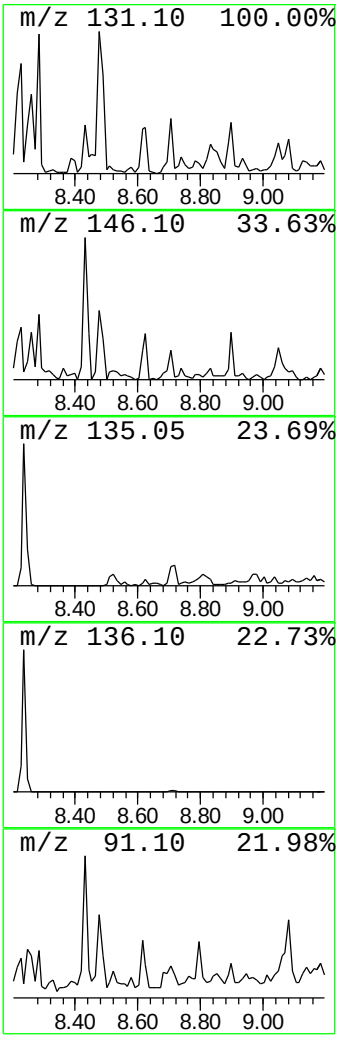
**********

Peak Number 8 .alpha.,.beta.,.beta.-Trime... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.70 | 3.51 ng | 350832 | Naphthalene-d8 | 8.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.,.beta.,.beta.-Trimethyls... | 146 | C11H14 | 000769-57-3 | 91 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 70 |
| 3 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 64 |
| 4 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 60 |
| 5 | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14 | 001075-22-5 | 60 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

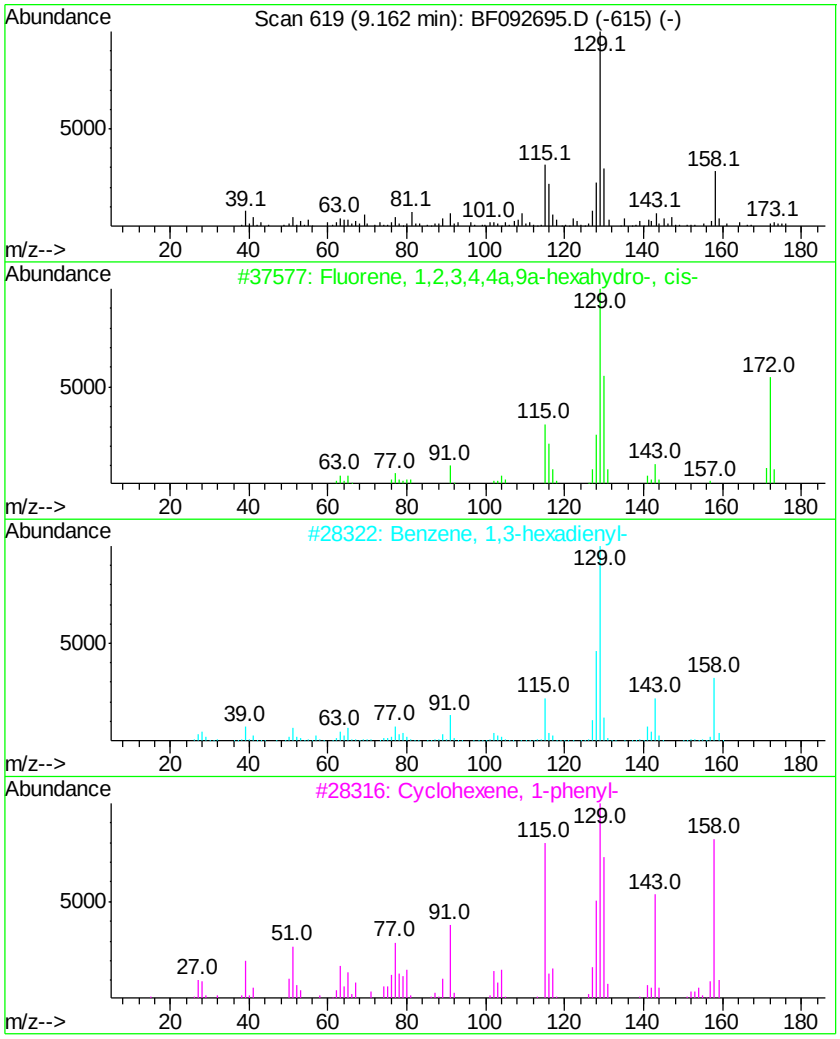
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

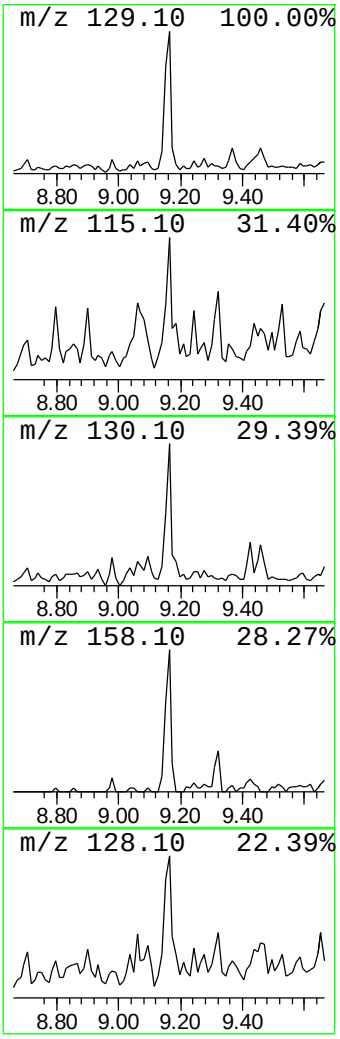
**********

Peak Number 9 Fluorene, 1,2,3,4,4a,9a-hex... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.16 | 7.90 ng | 611291 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluorene, 1,2,3,4,4a,9a-hexahydr... | 172 | C13H16 | 001559-97-3 | 58 |
| 2 | Benzene, 1,3-hexadienyl- | 158 | C12H14 | 041635-77-2 | 40 |
| 3 | Cyclohexene, 1-phenyl- | 158 | C12H14 | 000771-98-2 | 38 |
| 4 | Boronic acid, (2-cyclohexylidene... | 308 | C18H37BOSi | 074810-48-3 | 37 |
| 5 | Boronic acid, diethyl-, trimethy... | 158 | C7H19BOSi | 074630-37-8 | 32 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

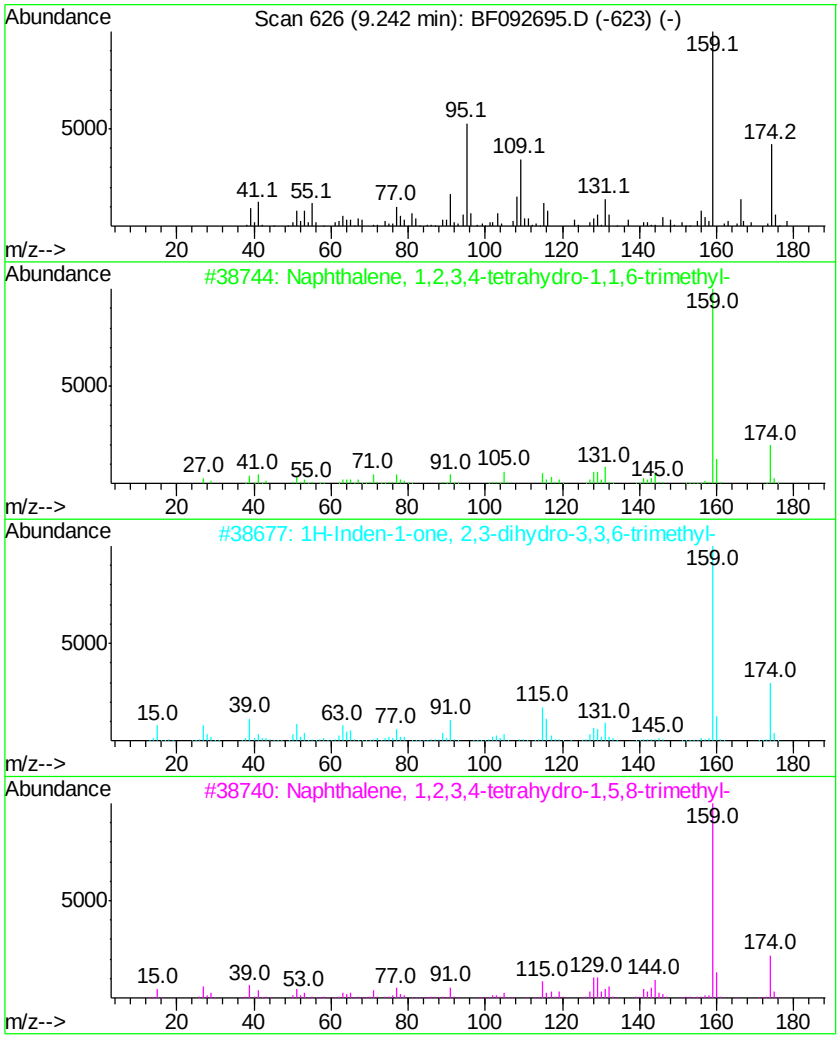
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

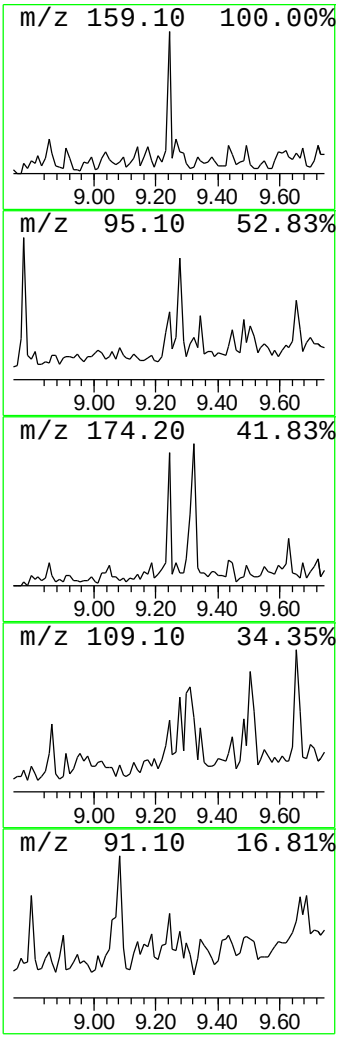
**********

Peak Number 10 unknown9.24 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.24 | 2.96 ng | 229215 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18 | 000475-03-6 | 47 |
| 2 | 1H-Inden-1-one, 2,3-dihydro-3,3,... | 174 | C12H14O | 054484-71-8 | 46 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18 | 021693-51-6 | 43 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18 | 030316-36-0 | 43 |
| 5 | 2(1H)-Quinolinone, 4-methyl- | 159 | C10H9NO | 000607-66-9 | 30 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

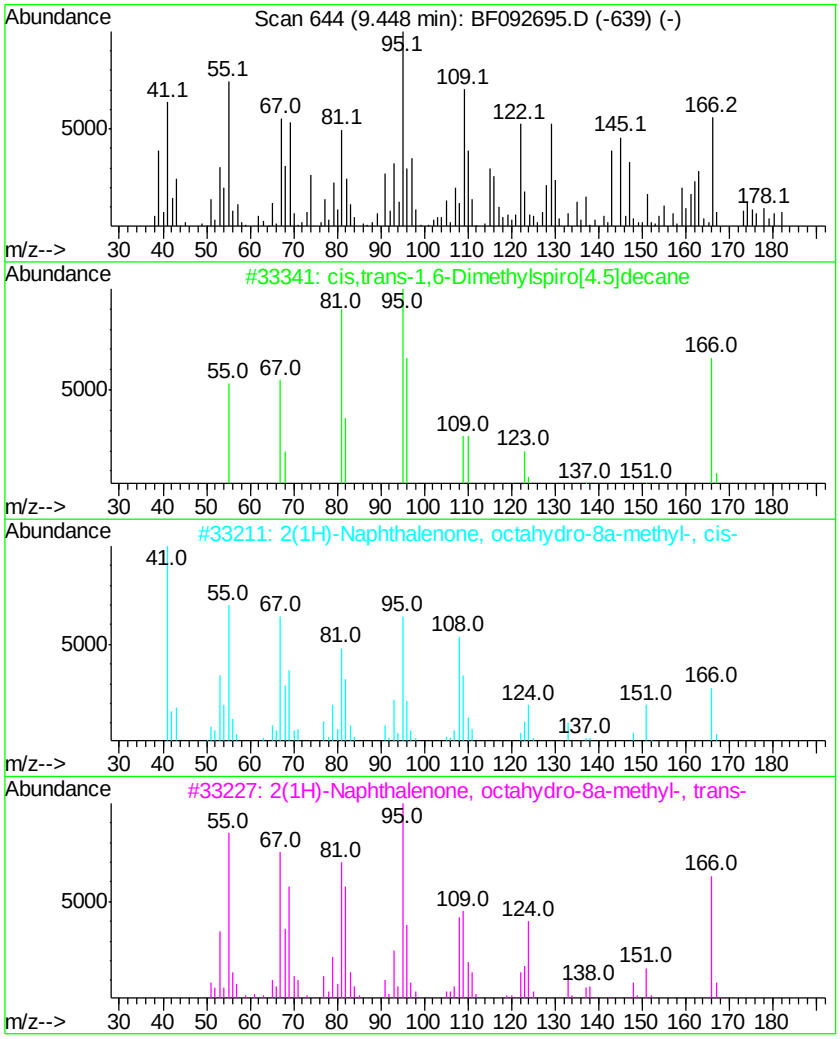
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

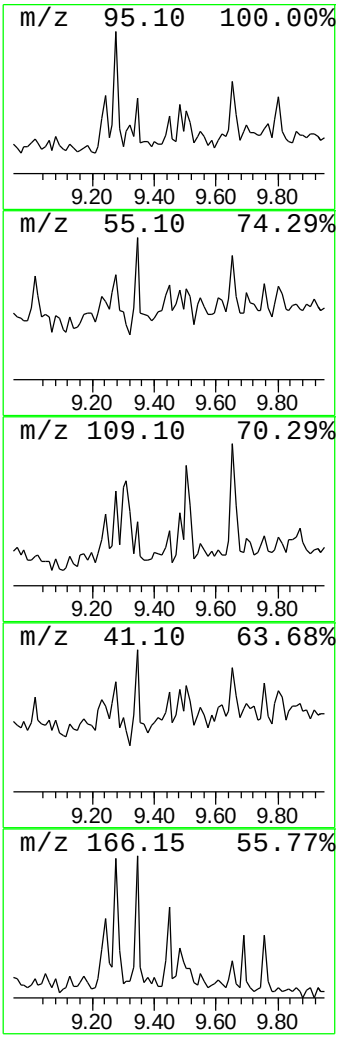
**********

Peak Number 11 unknown9.45 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.45 | 3.73 ng | 288839 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis,trans-1,6-Dimethylspiro[4.5]... | 166 | C12H22 | 1000111-72-3 | 30 |
| 2 | 2(1H)-Naphthalenone, octahydro-8... | 166 | C11H18O | 002530-17-8 | 30 |
| 3 | 2(1H)-Naphthalenone, octahydro-8... | 166 | C11H18O | 001197-95-1 | 30 |
| 4 | 3-Octadecyne | 250 | C18H34 | 061886-64-4 | 27 |
| 5 | 3,5-Octadiene, 4,5-diethyl-, (E,Z)- | 166 | C12H22 | 021293-02-7 | 25 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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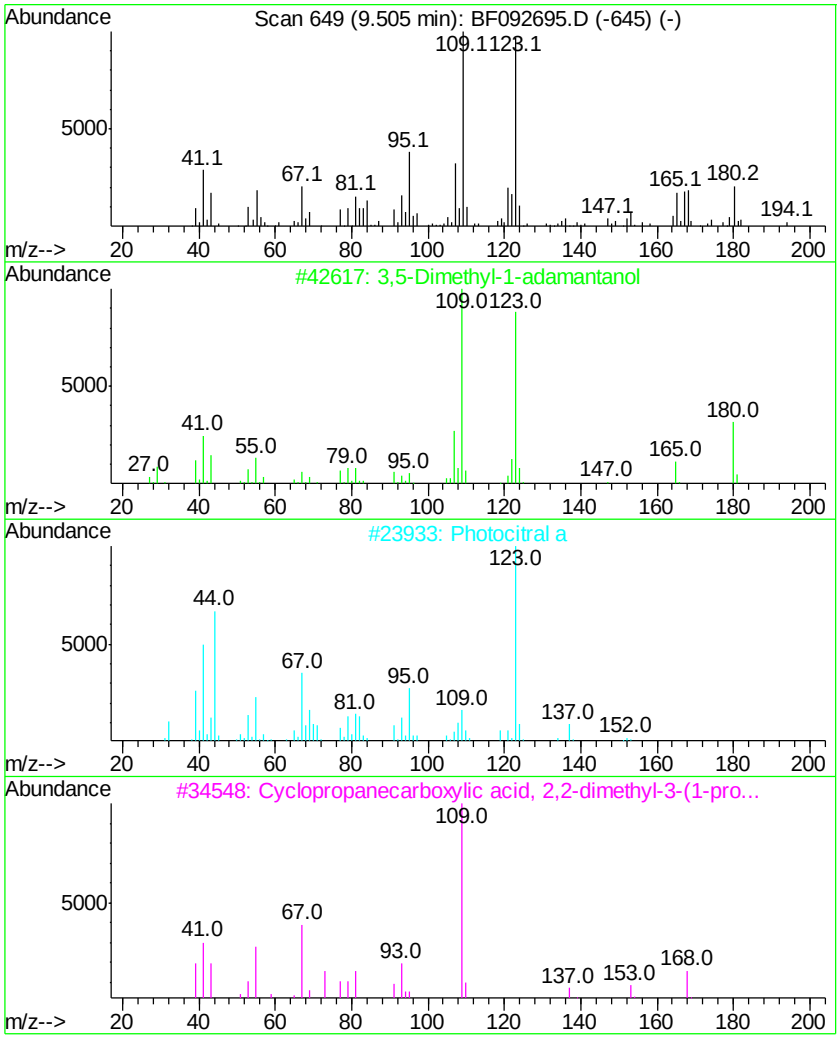
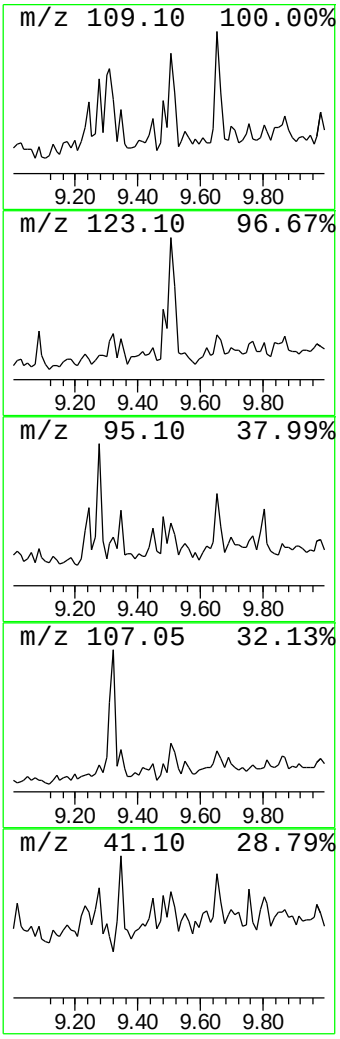
Peak Number 12 3,5-Dimethyl-1-adamantanol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.50 | 4.40 ng | 340669 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethyl-1-adamantanol | 180 | C12H20O | 000707-37-9 | 83 |
| 2 | Photocitral a | 152 | C10H16O | 1000292-85-0 | 38 |
| 3 | Cyclopropanecarboxylic acid, 2,2... | 168 | C10H16O2 | 033383-56-1 | 38 |
| 4 | 2-Amino-4-acetamino anisole | 180 | C9H12N2O2 | 006375-47-9 | 38 |
| 5 | Benzeneacetic acid, .alpha.,4-di... | 168 | C8H8O4 | 001198-84-1 | 35 |



# Library Search Compound Report

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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

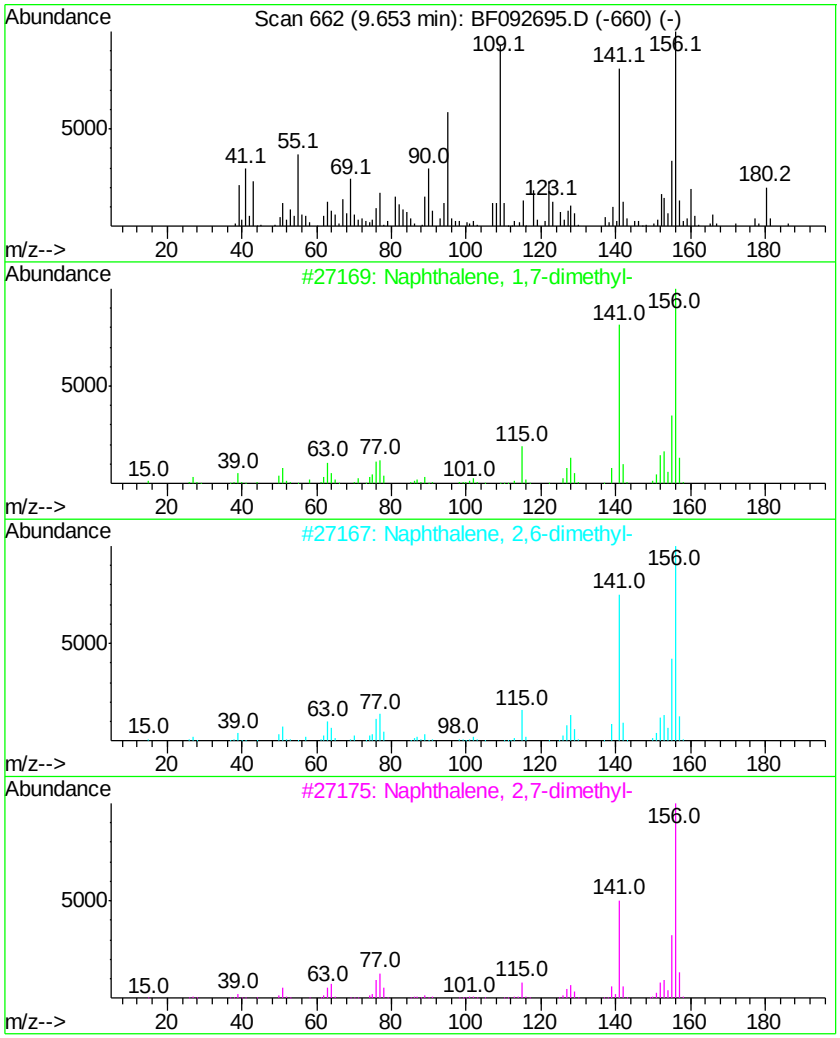
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

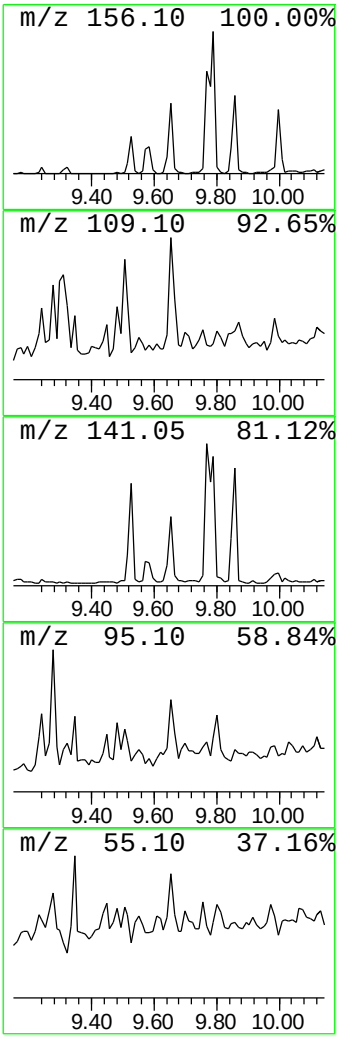
**********

Peak Number 13 Naphthalene, 1,7-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.65 | 6.16 ng | 476737 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 95 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 95 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 95 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 94 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

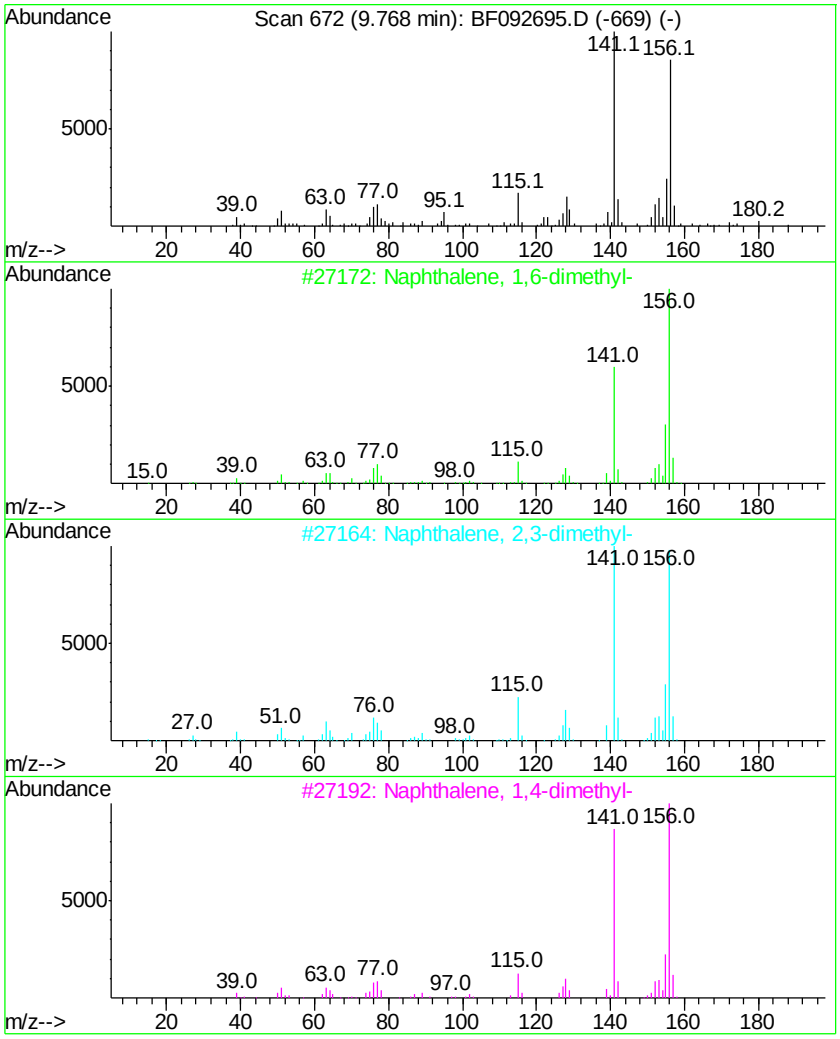
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

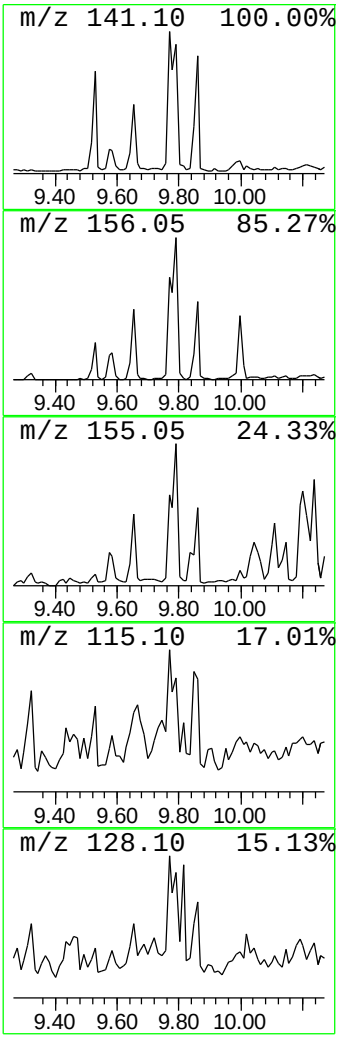
**********

Peak Number 14 Naphthalene, 1,6-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.77 | 4.75 ng | 367578 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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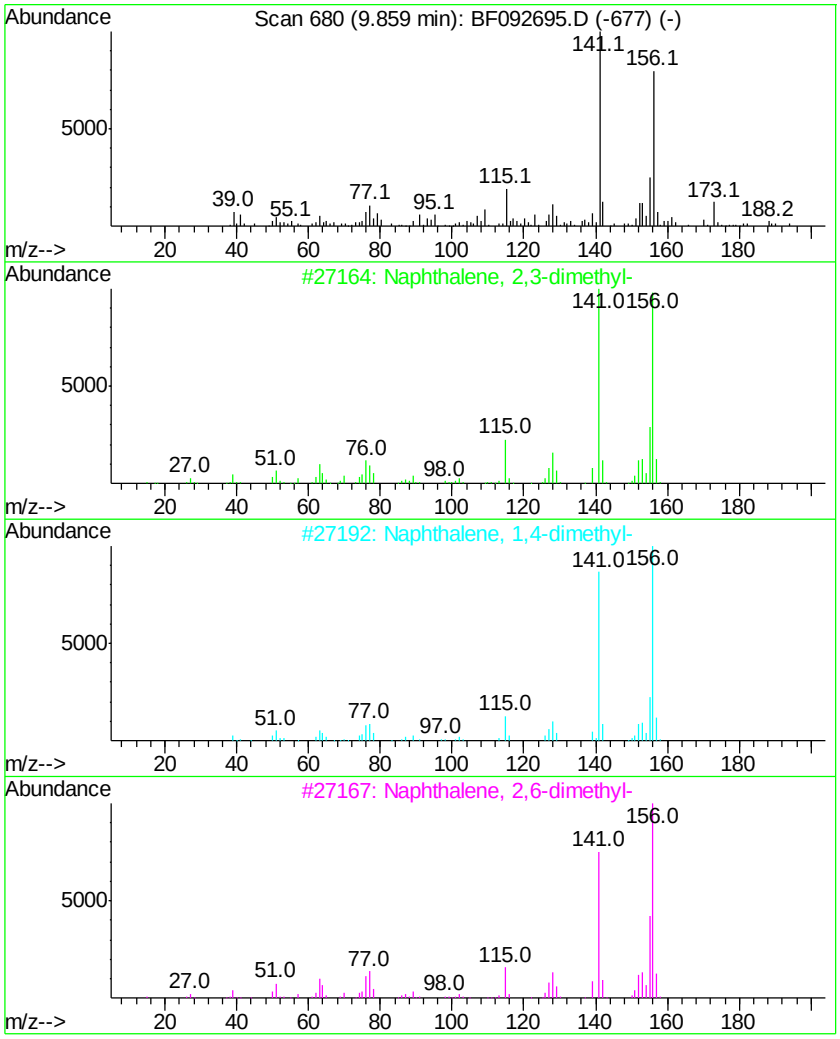
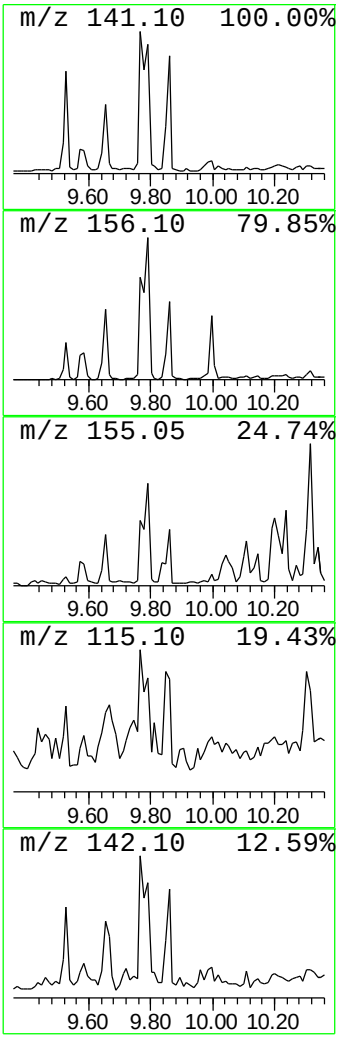
Peak Number 15 Naphthalene, 2,3-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.86 | 3.63 ng | 280486 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 94 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 93 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 93 |
| 5 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |



# Library Search Compound Report

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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

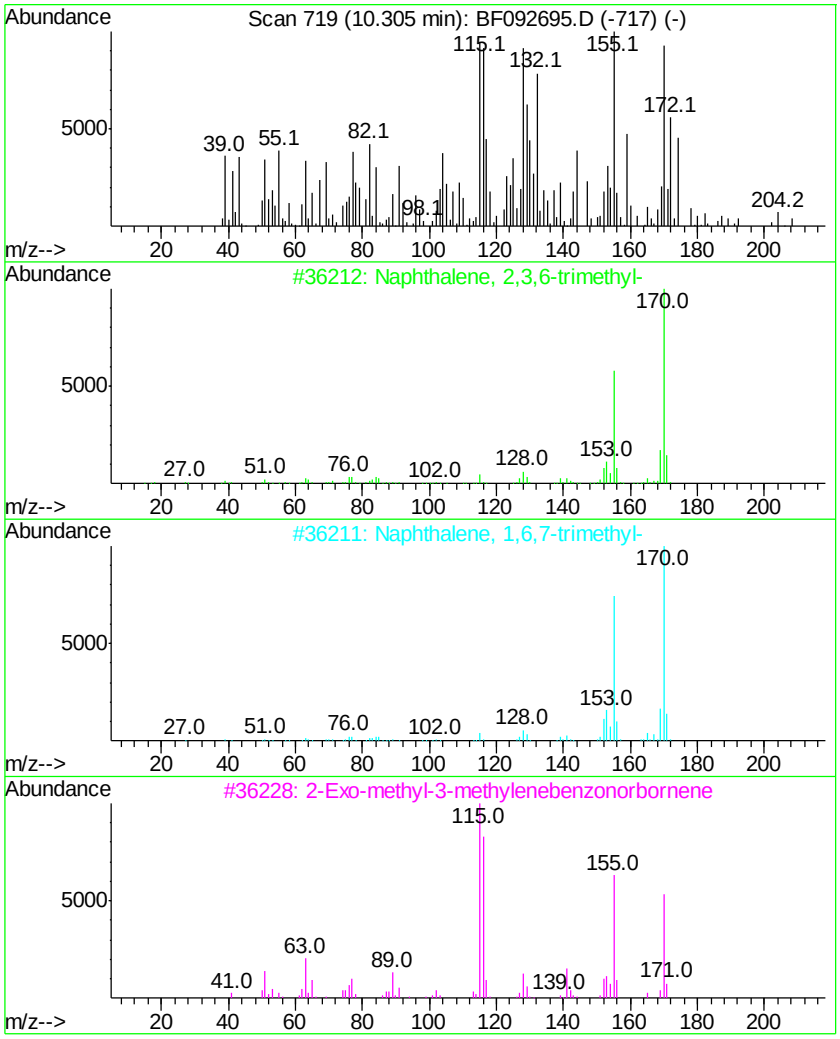
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

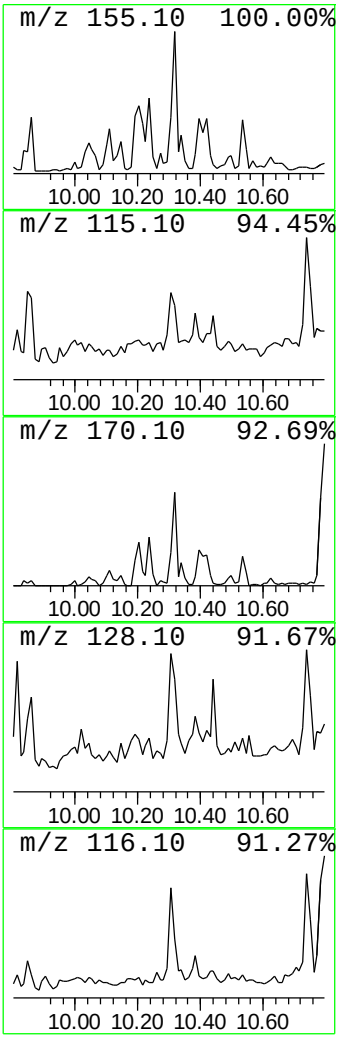
**********

Peak Number 16 unknown10.30 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.30 | 4.62 ng | 357369 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 49 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 42 |
| 3 | 2-Exo-methyl-3-methylenebenzonor... | 170 | C13H14 | 151123-60-3 | 42 |
| 4 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 42 |
| 5 | Azulene, 4,6,8-trimethyl- | 170 | C13H14 | 000941-81-1 | 35 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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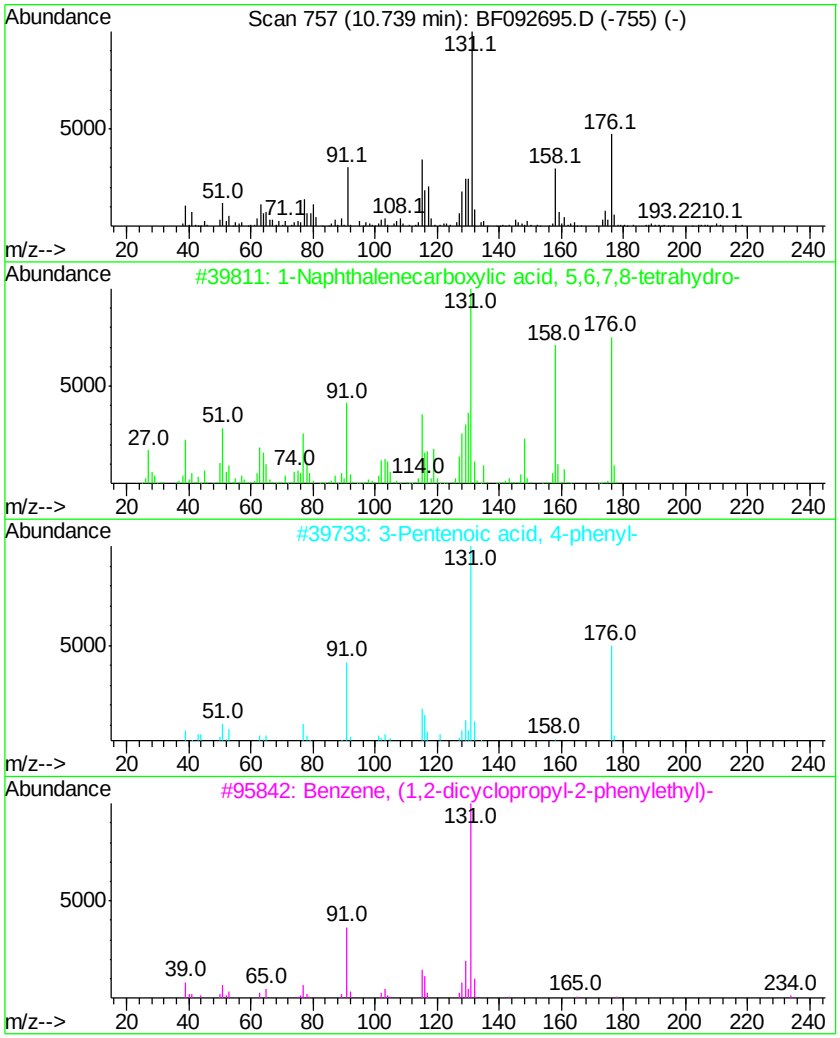
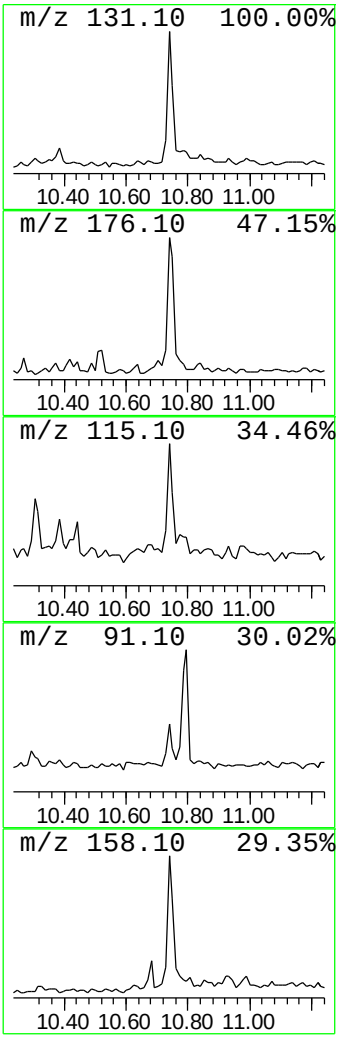
Peak Number 17 1-Naphthalenecarboxylic aci... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.74 | 4.16 ng | 321959 | Acenaphthene-d10 | 10.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenecarboxylic acid, 5,... | 176 | C11H12O2 | 004242-18-6 | 52 |
| 2 | 3-Pentenoic acid, 4-phenyl- | 176 | C11H12O2 | 053774-19-9 | 50 |
| 3 | Benzene, (1,2-dicyclopropyl-2-ph... | 262 | C20H22 | 110330-90-0 | 37 |
| 4 | 2-Propenoic acid, 3-phenyl-, eth... | 176 | C11H12O2 | 000103-36-6 | 35 |
| 5 | Benzene, (2-chloro-2-butenyl)- | 166 | C10H11Cl | 054411-12-0 | 35 |



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Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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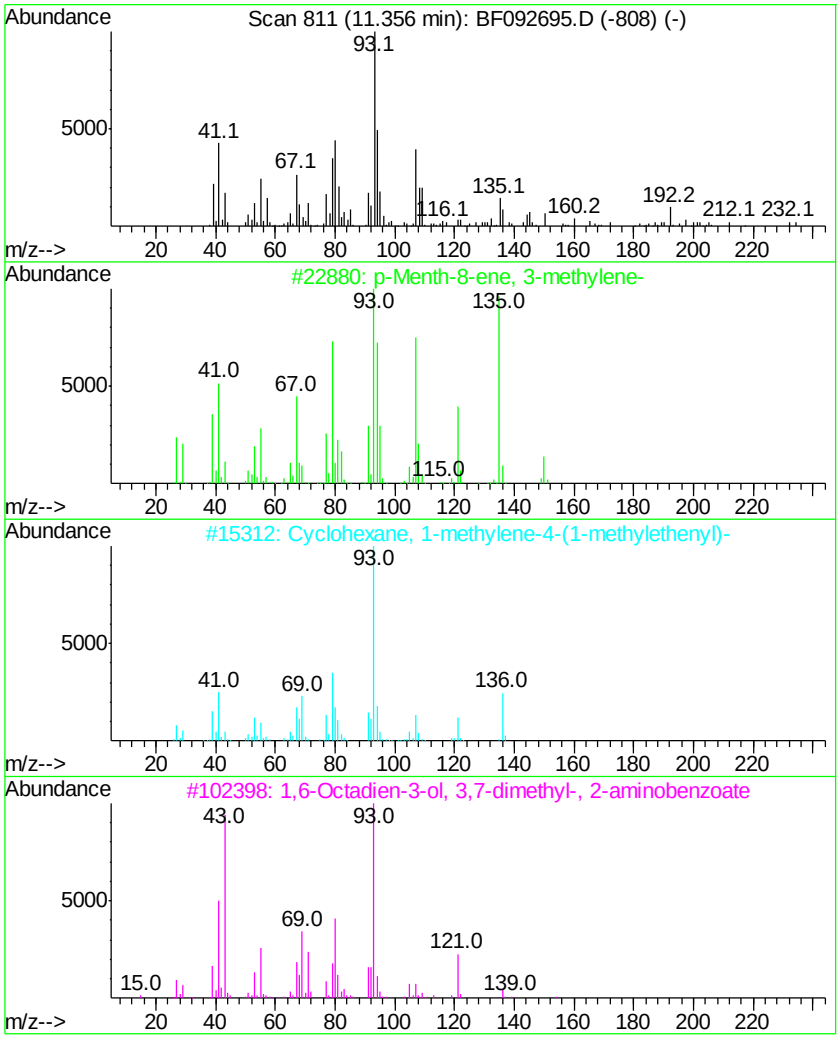
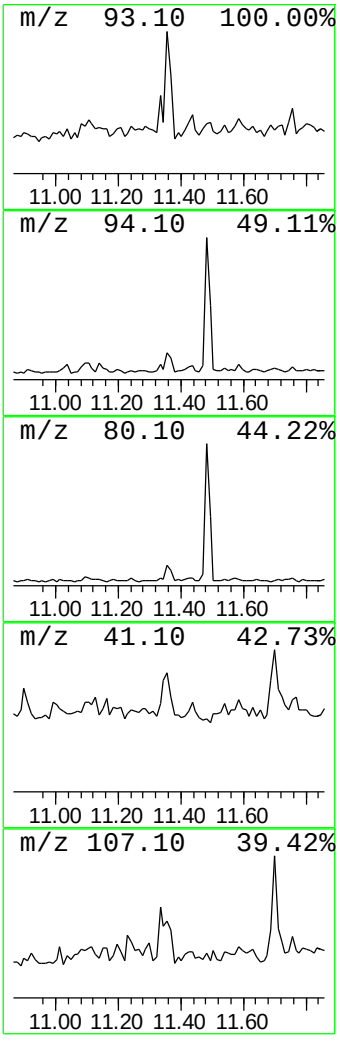
Peak Number 18 unknown11.36 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.36 | 3.25 ng | 236307 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Menth-8-ene, 3-methylene- | 150 | C11H18 | 1000151-25-7 | 45 |
| 2 | Cyclohexane, 1-methylene-4-(1-me... | 136 | C10H16 | 000499-97-8 | 35 |
| 3 | 1,6-Octadien-3-ol, 3,7-dimethyl-... | 273 | C17H23NO2 | 007149-26-0 | 32 |
| 4 | .beta.-Pinene | 136 | C10H16 | 000127-91-3 | 27 |
| 5 | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16 | 018172-67-3 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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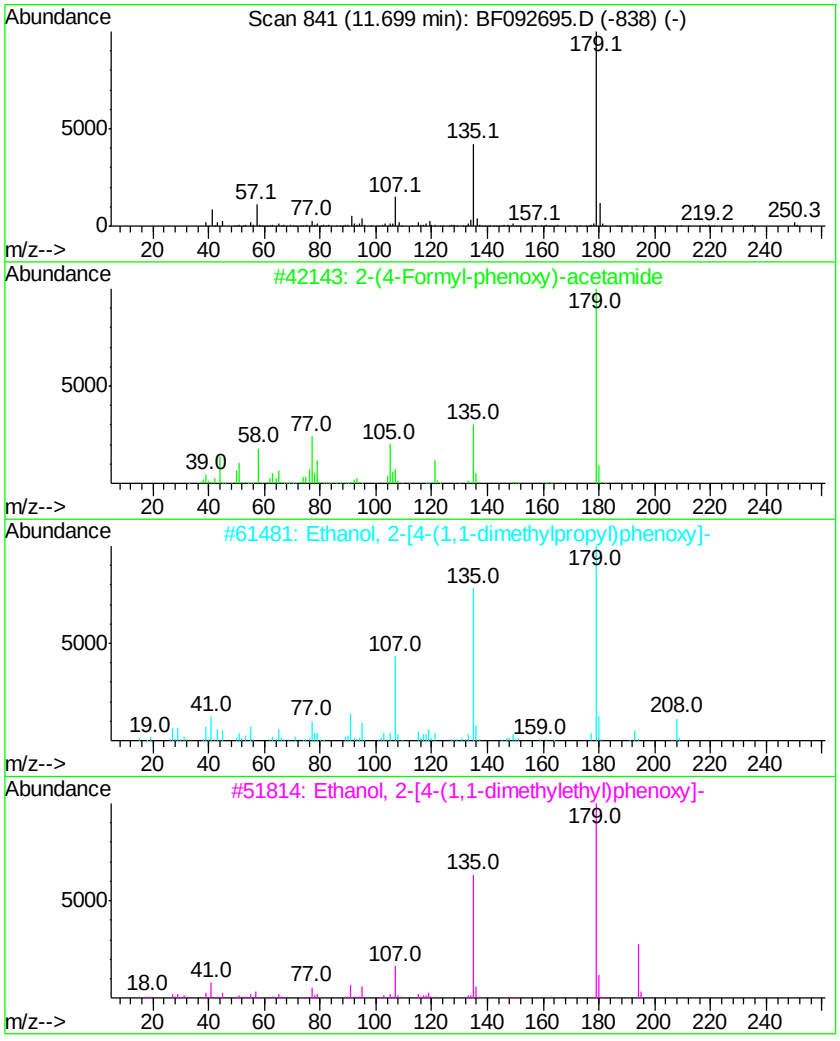
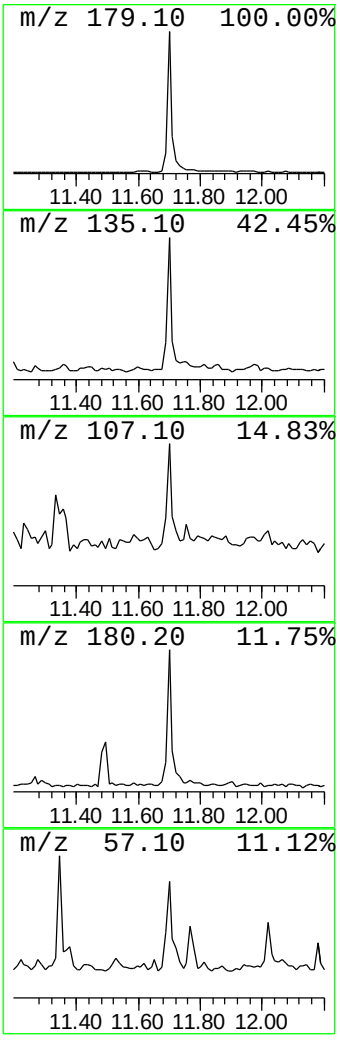
Peak Number 19 2-(4-Formyl-phenoxy)-acetamide Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.70 | 6.29 ng | 457074 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(4-Formyl-phenoxy)-acetamide | 179 | C9H9NO3 | 135857-20-4 | 64 |
| 2 | Ethanol, 2-[4-(1,1-dimethylpropy... | 208 | C13H20O2 | 006382-07-6 | 56 |
| 3 | Ethanol, 2-[4-(1,1-dimethylethyl... | 194 | C12H18O2 | 000713-46-2 | 50 |
| 4 | 1,3-Dioxolane, 2-(4-methoxyphenv... | 194 | C11H14O3 | 036881-00-2 | 50 |
| 5 | Acetic acid, [2-[(2-propenylamin... | 235 | C12H13NO4 | 000119-45-9 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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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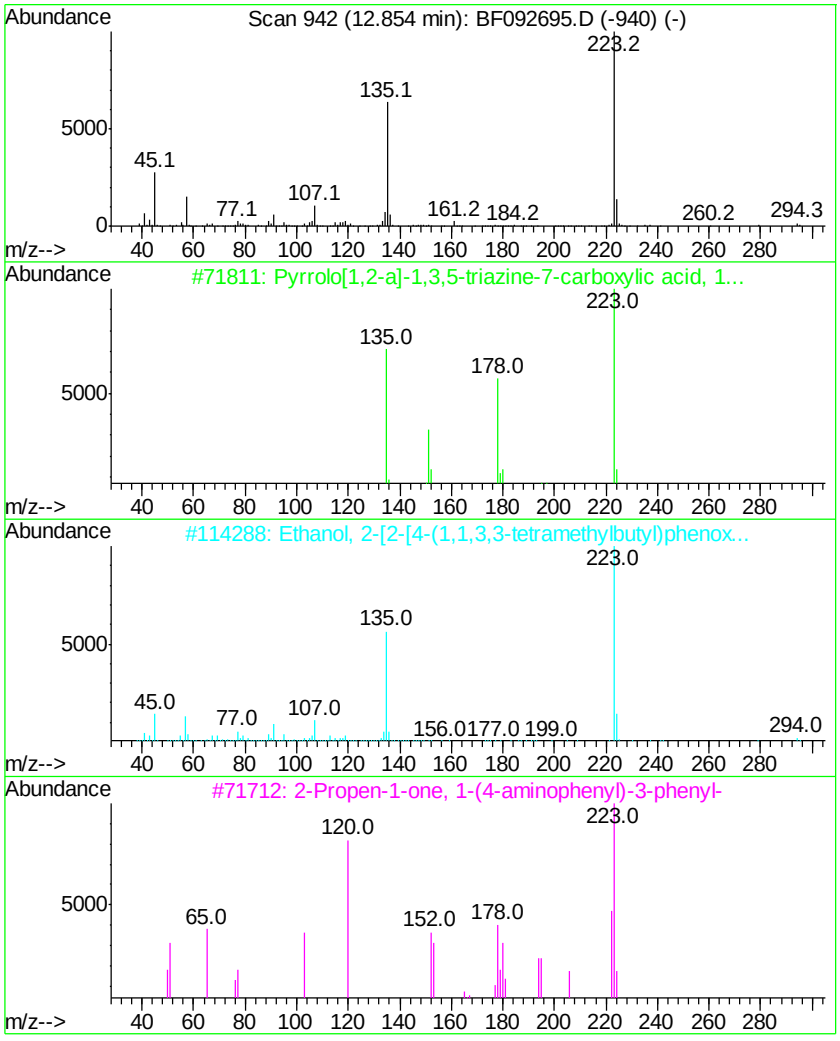
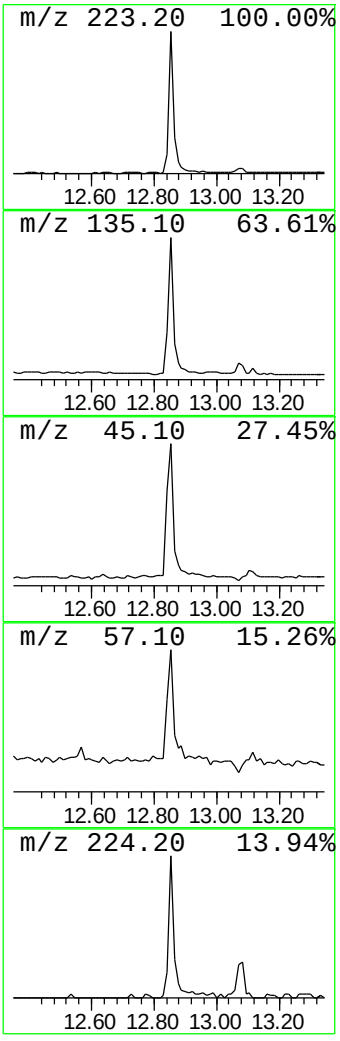
Peak Number 20 Pyrrolo[1,2-a]-1,3,5-triazi... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.85 | 5.66 ng | 376282 | Chrysene-d12 | 14.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrrolo[1,2-a]-1,3,5-triazine-7-... | 223 | C9H9N3O4 | 054449-89-7 | 90 |
| 2 | Ethanol, 2-[2-[4-(1,1,3,3-tetram... | 294 | C18H30O3 | 002315-61-9 | 43 |
| 3 | 2-Propen-1-one, 1-(4-aminophenyl... | 223 | C15H13NO | 002403-30-7 | 43 |
| 4 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 38 |
| 5 | Propargite | 350 | C19H26O4S | 002312-35-8 | 16 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF013117\
Data File : BF092695.D
Acq On : 31 Jan 2017 21:46
Operator : SJ/MA
Sample : I1596-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-24

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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... | 5.13 | 14.1 | ng | 801258 | 1 | 6.94 | 1140800 | 20.0 |
| unknown6.72 | 6.72 | 67.1 | ng | 3827130 | 1 | 6.94 | 1140800 | 20.0 |
| Benzene, 1,2-diet... | 7.29 | 4.5 | ng | 258881 | 1 | 6.94 | 1140800 | 20.0 |
| Benzene, 1,2,4,5-... | 7.72 | 4.9 | ng | 488816 | 2 | 8.24 | 1997180 | 20.0 |
| Benzene, (2-methy... | 7.88 | 3.9 | ng | 384103 | 2 | 8.24 | 1997180 | 20.0 |
| Naphthalene, 1,2,... | 8.43 | 2.6 | ng | 258113 | 2 | 8.24 | 1997180 | 20.0 |
| .alpha.,.beta.,.b... | 8.70 | 3.5 | ng | 350832 | 2 | 8.24 | 1997180 | 20.0 |
| Fluorene, 1,2,3,4... | 9.16 | 7.9 | ng | 611291 | 3 | 10.00 | 1546850 | 20.0 |
| unknown9.24 | 9.24 | 3.0 | ng | 229215 | 3 | 10.00 | 1546850 | 20.0 |
| unknown9.45 | 9.45 | 3.7 | ng | 288839 | 3 | 10.00 | 1546850 | 20.0 |
| 3,5-Dimethyl-1-ad... | 9.50 | 4.4 | ng | 340669 | 3 | 10.00 | 1546850 | 20.0 |
| Naphthalene, 1,7-... | 9.65 | 6.2 | ng | 476737 | 3 | 10.00 | 1546850 | 20.0 |
| Naphthalene, 1,6-... | 9.77 | 4.8 | ng | 367578 | 3 | 10.00 | 1546850 | 20.0 |
| Naphthalene, 2,3-... | 9.86 | 3.6 | ng | 280486 | 3 | 10.00 | 1546850 | 20.0 |
| unknown10.30 | 10.30 | 4.6 | ng | 357369 | 3 | 10.00 | 1546850 | 20.0 |
| 1-Naphthalenecarb... | 10.74 | 4.2 | ng | 321959 | 3 | 10.00 | 1546850 | 20.0 |
| unknown11.36 | 11.36 | 3.3 | ng | 236307 | 4 | 11.49 | 1453600 | 20.0 |
| 2-(4-Formyl-pheno... | 11.70 | 6.3 | ng | 457074 | 4 | 11.49 | 1453600 | 20.0 |
| Pyrrolo[1,2-a]-1,... | 12.85 | 5.7 | ng | 376282 | 5 | 14.12 | 1329900 | 20.0 |