LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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 | 1.678 | 6 | 8 | 16 | rVV | 99888 | 241472 | 7.67% | 0.368% |
| 2 | 1.793 | 16 | 18 | 39 | rVB | 1117820 | 2090924 | 66.44% | 3.188% |
| 3 | 2.513 | 73 | 81 | 84 | rVB | 30784 | 70687 | 2.25% | 0.108% |
| 4 | 2.684 | 93 | 96 | 98 | rBV | 72407 | 139303 | 4.43% | 0.212% |
| 5 | 2.718 | 98 | 99 | 105 | rVB | 102247 | 165109 | 5.25% | 0.252% |
| 6 | 3.816 | 191 | 195 | 201 | rVB2 | 19954 | 46230 | 1.47% | 0.070% |
| 7 | 4.056 | 213 | 216 | 218 | rBV | 81994 | 130349 | 4.14% | 0.199% |
| 8 | 4.753 | 274 | 277 | 279 | rBV2 | 32295 | 64301 | 2.04% | 0.098% |
| 9 | 4.856 | 284 | 286 | 288 | rVV | 45979 | 76700 | 2.44% | 0.117% |
| 10 | 4.901 | 288 | 290 | 294 | rVB2 | 35813 | 65321 | 2.08% | 0.100% |
| 11 | 5.290 | 323 | 324 | 329 | rBV | 878248 | 1103351 | 35.06% | 1.682% |
| 12 | 5.404 | 332 | 334 | 337 | rBV3 | 21982 | 43963 | 1.40% | 0.067% |
| 13 | 5.587 | 347 | 350 | 353 | rVB | 39483 | 47942 | 1.52% | 0.073% |
| 14 | 5.827 | 368 | 371 | 373 | rBV | 70737 | 93854 | 2.98% | 0.143% |
| 15 | 5.919 | 377 | 379 | 382 | rVB | 80151 | 74481 | 2.37% | 0.114% |
| 16 | 6.204 | 401 | 404 | 407 | rBV3 | 27364 | 73901 | 2.35% | 0.113% |
| 17 | 6.296 | 410 | 412 | 413 | rBV | 38018 | 44335 | 1.41% | 0.068% |
| 18 | 6.330 | 413 | 415 | 416 | rBV | 51554 | 78328 | 2.49% | 0.119% |
| 19 | 6.353 | 416 | 417 | 421 | rBV | 506500 | 630315 | 20.03% | 0.961% |
| 20 | 6.433 | 421 | 424 | 425 | rVB2 | 79835 | 146296 | 4.65% | 0.223% |
| 21 | 6.467 | 425 | 427 | 429 | rBV | 1656762 | 1806050 | 57.39% | 2.754% |
| 22 | 6.513 | 429 | 431 | 433 | rVB | 110171 | 97210 | 3.09% | 0.148% |
| 23 | 6.593 | 435 | 438 | 440 | rVB2 | 47030 | 68211 | 2.17% | 0.104% |
| 24 | 6.650 | 440 | 443 | 445 | rBV3 | 66408 | 84837 | 2.70% | 0.129% |
| 25 | 6.696 | 445 | 447 | 449 | rBV | 678546 | 605340 | 19.24% | 0.923% |
| 26 | 6.776 | 452 | 454 | 455 | rVB | 419976 | 370902 | 11.79% | 0.566% |
| 27 | 6.856 | 458 | 461 | 464 | rBV2 | 1858511 | 2517773 | 80.01% | 3.839% |
| 28 | 6.947 | 466 | 469 | 471 | rBV | 460749 | 502657 | 15.97% | 0.766% |
| 29 | 6.982 | 471 | 472 | 474 | rVB | 43636 | 46864 | 1.49% | 0.071% |
| 30 | 7.039 | 474 | 477 | 480 | rVB3 | 300737 | 395541 | 12.57% | 0.603% |
| 31 | 7.085 | 480 | 481 | 482 | rBV | 51345 | 49555 | 1.57% | 0.076% |
| 32 | 7.142 | 482 | 486 | 487 | rBV2 | 92450 | 110684 | 3.52% | 0.169% |
| 33 | 7.245 | 489 | 495 | 496 | rBV2 | 846539 | 1650418 | 52.45% | 2.517% |
| 34 | 7.267 | 496 | 497 | 499 | rVB2 | 1294394 | 1587364 | 50.44% | 2.420% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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 | 7.347 | 499 | 504 | 506 | rVB4 | 283714 | 569604 | 18.10% | 0.869% |
| 36 | 7.393 | 506 | 508 | 510 | rVB3 | 287476 | 489295 | 15.55% | 0.746% |
| 37 | 7.473 | 513 | 515 | 517 | rVB | 764572 | 710358 | 22.57% | 1.083% |
| 38 | 7.530 | 517 | 520 | 522 | rBV4 | 169746 | 364742 | 11.59% | 0.556% |
| 39 | 7.565 | 522 | 523 | 524 | rVB | 142294 | 97614 | 3.10% | 0.149% |
| 40 | 7.599 | 524 | 526 | 527 | rVB2 | 58414 | 73927 | 2.35% | 0.113% |
| 41 | 7.645 | 527 | 530 | 533 | rBV3 | 331783 | 677828 | 21.54% | 1.034% |
| 42 | 7.690 | 533 | 534 | 535 | rBV | 100732 | 92649 | 2.94% | 0.141% |
| 43 | 7.725 | 535 | 537 | 542 | rVB | 1547359 | 1978813 | 62.88% | 3.017% |
| 44 | 7.816 | 542 | 545 | 547 | rBV3 | 180647 | 386495 | 12.28% | 0.589% |
| 45 | 7.862 | 547 | 549 | 551 | rVB | 177557 | 196370 | 6.24% | 0.299% |
| 46 | 7.930 | 551 | 555 | 556 | rBV3 | 242383 | 535863 | 17.03% | 0.817% |
| 47 | 7.987 | 556 | 560 | 563 | rBV2 | 1011196 | 2070314 | 65.79% | 3.157% |
| 48 | 8.033 | 563 | 564 | 565 | rVB | 469528 | 322096 | 10.24% | 0.491% |
| 49 | 8.079 | 567 | 568 | 572 | rVB3 | 223001 | 410233 | 13.04% | 0.626% |
| 50 | 8.148 | 572 | 574 | 575 | rBV | 134803 | 206818 | 6.57% | 0.315% |
| 51 | 8.182 | 575 | 577 | 580 | rBV3 | 336149 | 586063 | 18.62% | 0.894% |
| 52 | 8.262 | 580 | 584 | 587 | rBV5 | 254419 | 871565 | 27.70% | 1.329% |
| 53 | 8.308 | 587 | 588 | 590 | rVB2 | 198884 | 229977 | 7.31% | 0.351% |
| 54 | 8.365 | 592 | 593 | 595 | rVB | 220113 | 222485 | 7.07% | 0.339% |
| 55 | 8.422 | 595 | 598 | 599 | rBV3 | 305534 | 498165 | 15.83% | 0.760% |
| 56 | 8.456 | 599 | 601 | 602 | rVV2 | 330011 | 422065 | 13.41% | 0.644% |
| 57 | 8.490 | 602 | 604 | 606 | rVV2 | 422585 | 549402 | 17.46% | 0.838% |
| 58 | 8.525 | 606 | 607 | 608 | rVB | 222821 | 155526 | 4.94% | 0.237% |
| 59 | 8.616 | 613 | 615 | 616 | rBV2 | 239356 | 346259 | 11.00% | 0.528% |
| 60 | 8.650 | 616 | 618 | 620 | rVB2 | 337527 | 444056 | 14.11% | 0.677% |
| 61 | 8.696 | 620 | 622 | 623 | rBV2 | 294920 | 311370 | 9.89% | 0.475% |
| 62 | 8.765 | 626 | 628 | 629 | rBV | 229074 | 288509 | 9.17% | 0.440% |
| 63 | 8.799 | 629 | 631 | 633 | rBV | 1770099 | 1968724 | 62.56% | 3.002% |
| 64 | 8.845 | 633 | 635 | 636 | rVB2 | 224926 | 256299 | 8.14% | 0.391% |
| 65 | 8.879 | 636 | 638 | 640 | rBV2 | 181793 | 297659 | 9.46% | 0.454% |
| 66 | 9.028 | 649 | 651 | 652 | rBV2 | 378244 | 579747 | 18.42% | 0.884% |
| 67 | 9.062 | 652 | 654 | 656 | rVV | 1768502 | 2845606 | 90.42% | 4.339% |
| 68 | 9.119 | 656 | 659 | 661 | rVB4 | 258478 | 510283 | 16.22% | 0.778% |
| 69 | 9.165 | 661 | 663 | 664 | rBV | 237191 | 238391 | 7.58% | 0.364% |
| 70 | 9.256 | 664 | 671 | 674 | rBV4 | 599899 | 1895182 | 60.22% | 2.890% |
| 71 | 9.325 | 674 | 677 | 681 | rVB | 996087 | 1798179 | 57.14% | 2.742% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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 | 9.405 | 681 | 684 | 688 | rBV2 | 1405798 | 3146942 | 100.00% | 4.799% |
| 73 | 9.519 | 691 | 694 | 698 | rVB2 | 1024257 | 2262099 | 71.88% | 3.449% |
| 74 | 9.599 | 698 | 701 | 704 | rVB5 | 490942 | 833812 | 26.50% | 1.271% |
| 75 | 9.645 | 704 | 705 | 707 | rBV2 | 326259 | 424633 | 13.49% | 0.647% |
| 76 | 9.713 | 709 | 711 | 712 | rBV | 222721 | 369404 | 11.74% | 0.563% |
| 77 | 9.736 | 712 | 713 | 714 | rBV | 642555 | 588571 | 18.70% | 0.897% |
| 78 | 9.839 | 720 | 722 | 724 | rBV3 | 439874 | 529794 | 16.84% | 0.808% |
| 79 | 9.885 | 724 | 726 | 728 | rBV2 | 247958 | 506623 | 16.10% | 0.773% |
| 80 | 9.931 | 728 | 730 | 733 | rVV2 | 684931 | 1298052 | 41.25% | 1.979% |
| 81 | 9.976 | 733 | 734 | 738 | rVB3 | 243093 | 568756 | 18.07% | 0.867% |
| 82 | 10.045 | 738 | 740 | 742 | rVB2 | 351526 | 631891 | 20.08% | 0.964% |
| 83 | 10.091 | 742 | 744 | 746 | rBV2 | 474263 | 877823 | 27.89% | 1.339% |
| 84 | 10.148 | 746 | 749 | 750 | rVV | 674800 | 1113678 | 35.39% | 1.698% |
| 85 | 10.182 | 750 | 752 | 755 | rVB3 | 576184 | 963821 | 30.63% | 1.470% |
| 86 | 10.239 | 755 | 757 | 759 | rBV3 | 317312 | 590605 | 18.77% | 0.901% |
| 87 | 10.365 | 766 | 768 | 773 | rBV5 | 474515 | 1131685 | 35.96% | 1.726% |
| 88 | 10.445 | 773 | 775 | 777 | rVV | 393646 | 561369 | 17.84% | 0.856% |
| 89 | 10.536 | 781 | 783 | 784 | rVV2 | 882262 | 987435 | 31.38% | 1.506% |
| 90 | 10.571 | 784 | 786 | 789 | rVV3 | 653924 | 1295034 | 41.15% | 1.975% |
| 91 | 10.616 | 789 | 790 | 795 | rVV2 | 506464 | 1086266 | 34.52% | 1.656% |
| 92 | 10.719 | 797 | 799 | 801 | rBV2 | 249842 | 368931 | 11.72% | 0.563% |
| 93 | 10.856 | 810 | 811 | 813 | rVB | 440911 | 456480 | 14.51% | 0.696% |
| 94 | 10.959 | 819 | 820 | 824 | rBV3 | 254624 | 523865 | 16.65% | 0.799% |
| 95 | 11.108 | 831 | 833 | 838 | rVV4 | 418488 | 726110 | 23.07% | 1.107% |
| 96 | 11.222 | 841 | 843 | 846 | rVB | 826714 | 840186 | 26.70% | 1.281% |
| 97 | 12.148 | 922 | 924 | 926 | rBV | 175650 | 183903 | 5.84% | 0.280% |
| 98 | 12.799 | 979 | 981 | 984 | rVB | 1394359 | 1659332 | 52.73% | 2.530% |
| 99 | 13.840 | 1070 | 1072 | 1075 | rVB | 372129 | 523964 | 16.65% | 0.799% |
| 100 | 15.223 | 1191 | 1193 | 1209 | rVB | 405710 | 710630 | 22.58% | 1.084% |

Sum of corrected areas: 65580793

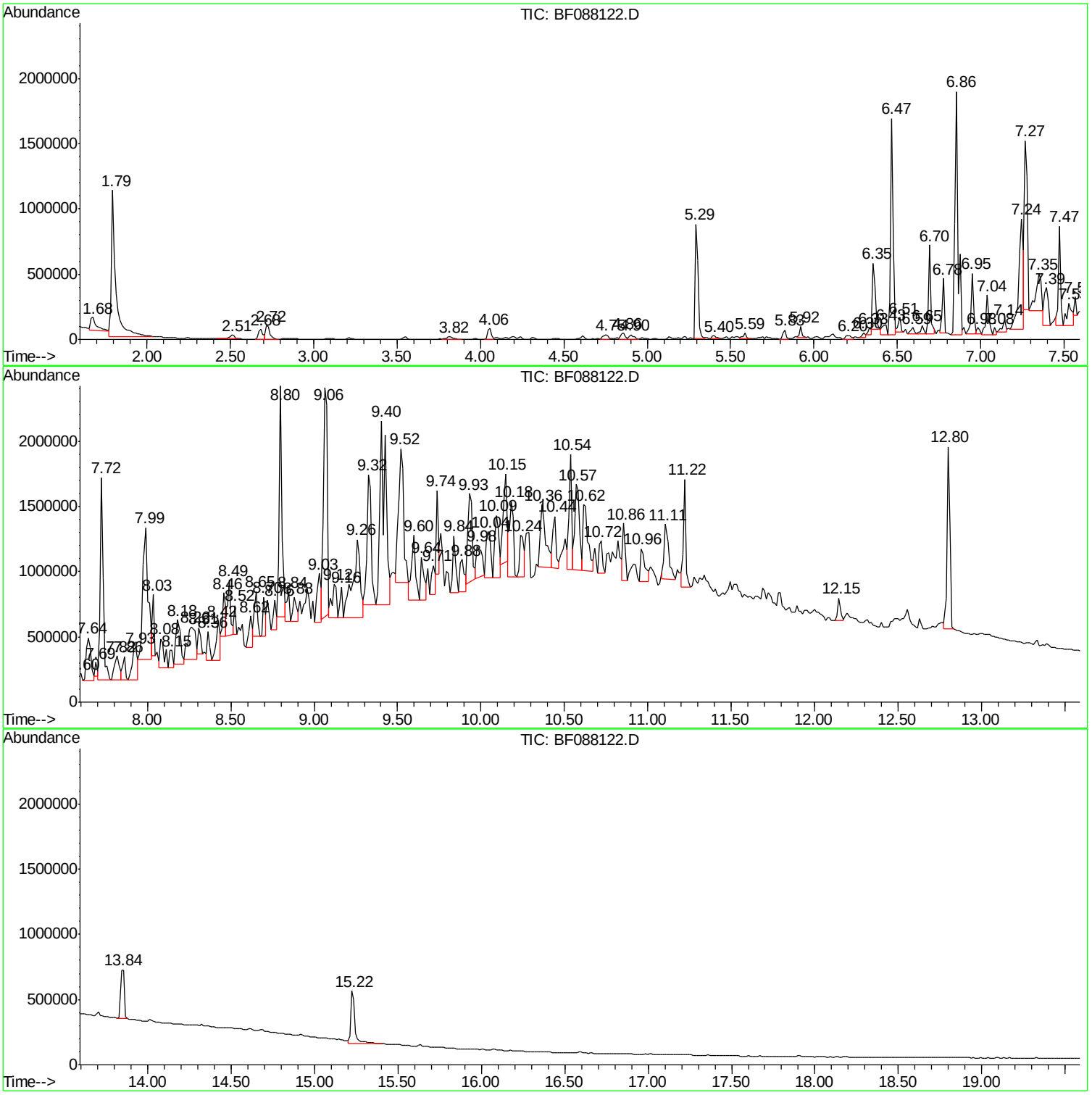
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

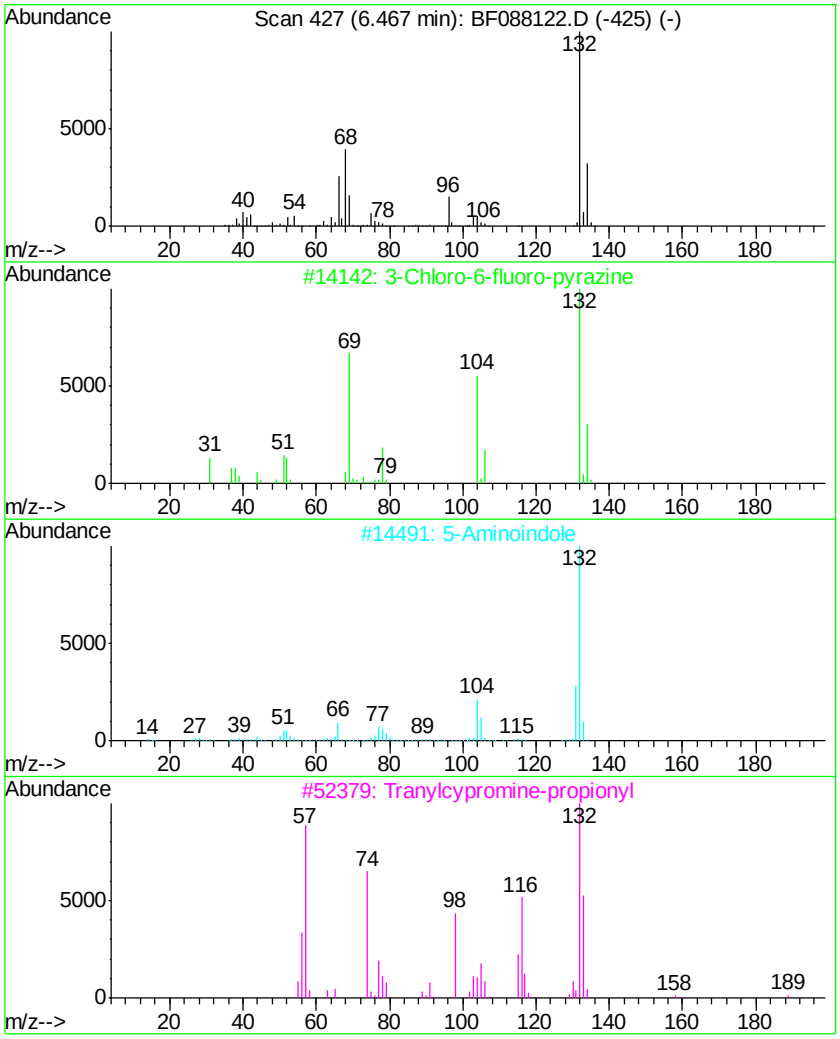
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

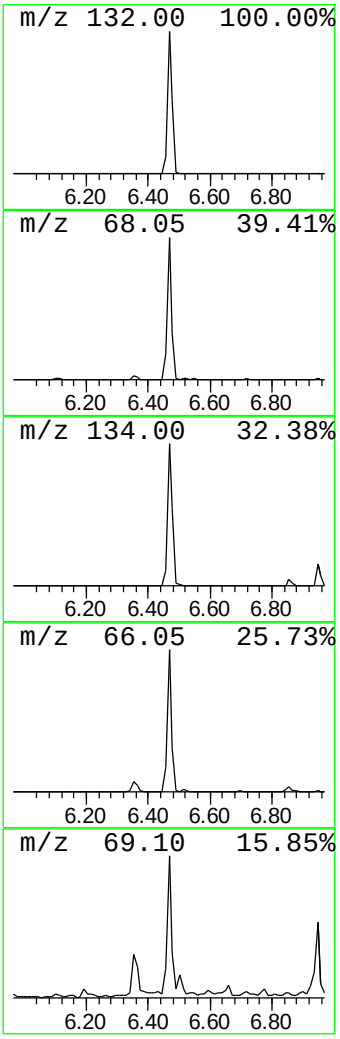
**********

Peak Number 2 unknown6.47 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.47 | 59.67 ng | 1806050 | 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-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

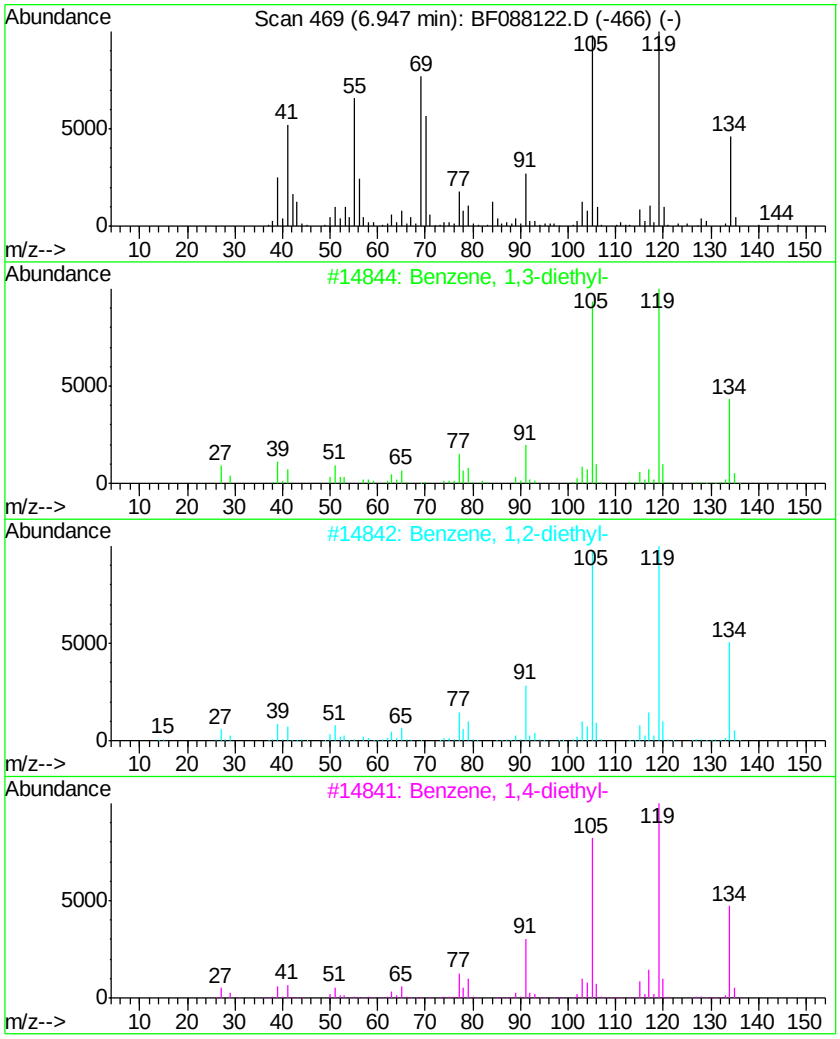
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

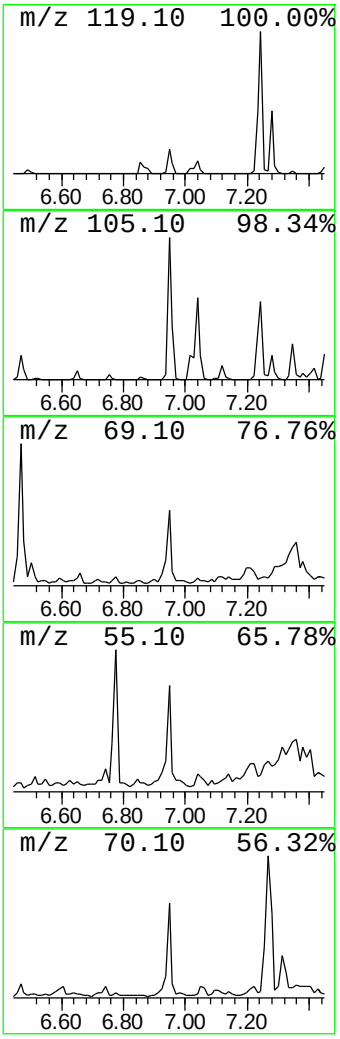
**********

Peak Number 4 Benzene, 1,3-diethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.95 | 16.61 ng | 502657 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 95 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 95 |
| 3 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 90 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 55 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

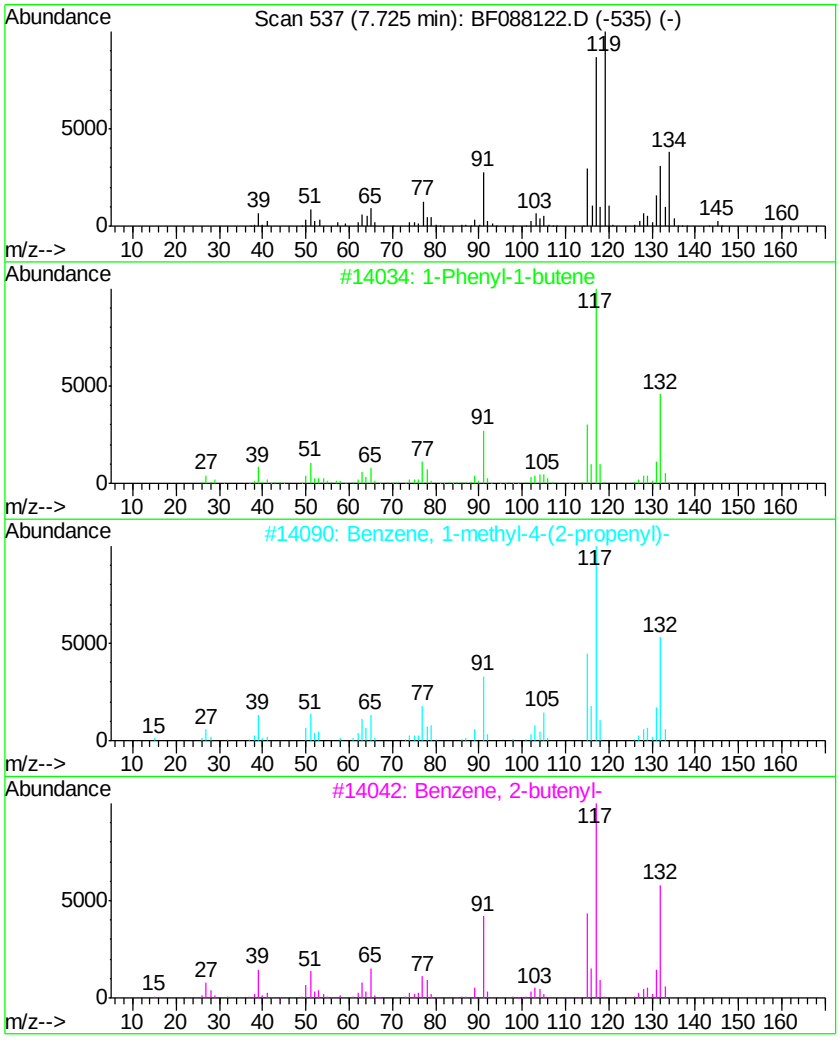
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

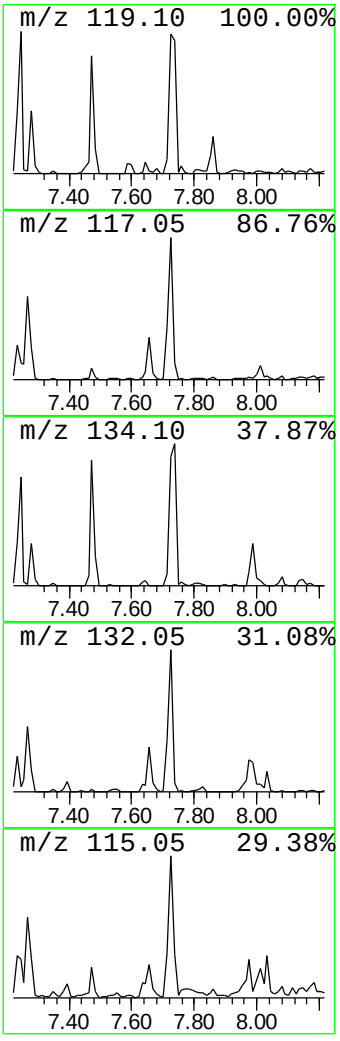
**********

Peak Number 5 1-Phenyl-1-butene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.72 | 19.12 ng | 1978810 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 91 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 70 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 70 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 70 |
| 5 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 55 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

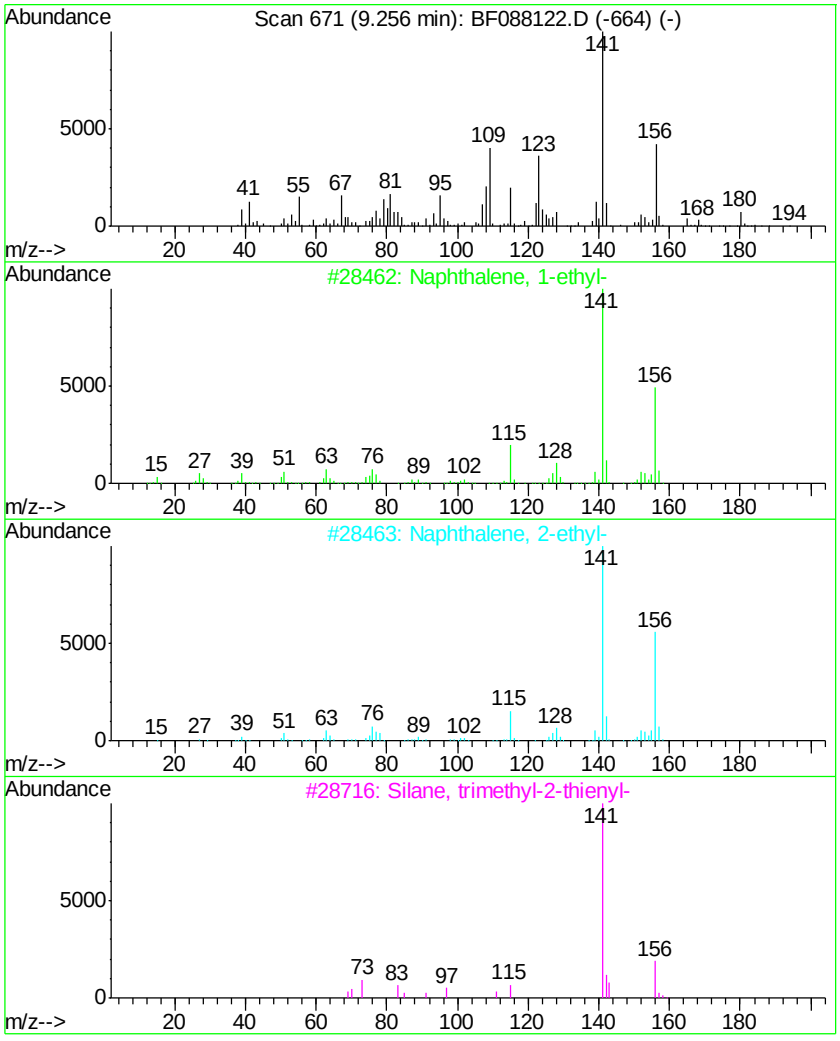
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

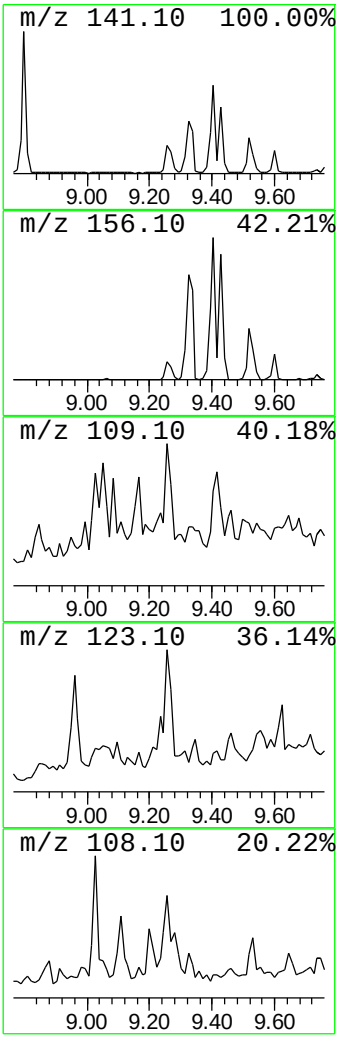
**********

Peak Number 7 Naphthalene, 1-ethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.26 | 64.40 ng | 1895180 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 60 |
| 2 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 60 |
| 3 | Silane, trimethyl-2-thienyl- | 156 | C7H12SSi | 018245-28-8 | 43 |
| 4 | Naphthalene, 1-(chloromethyl)- | 176 | C11H9Cl | 000086-52-2 | 38 |
| 5 | 2,5-Dimethoxyfluorobenzene | 156 | C8H9FO2 | 082830-49-7 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

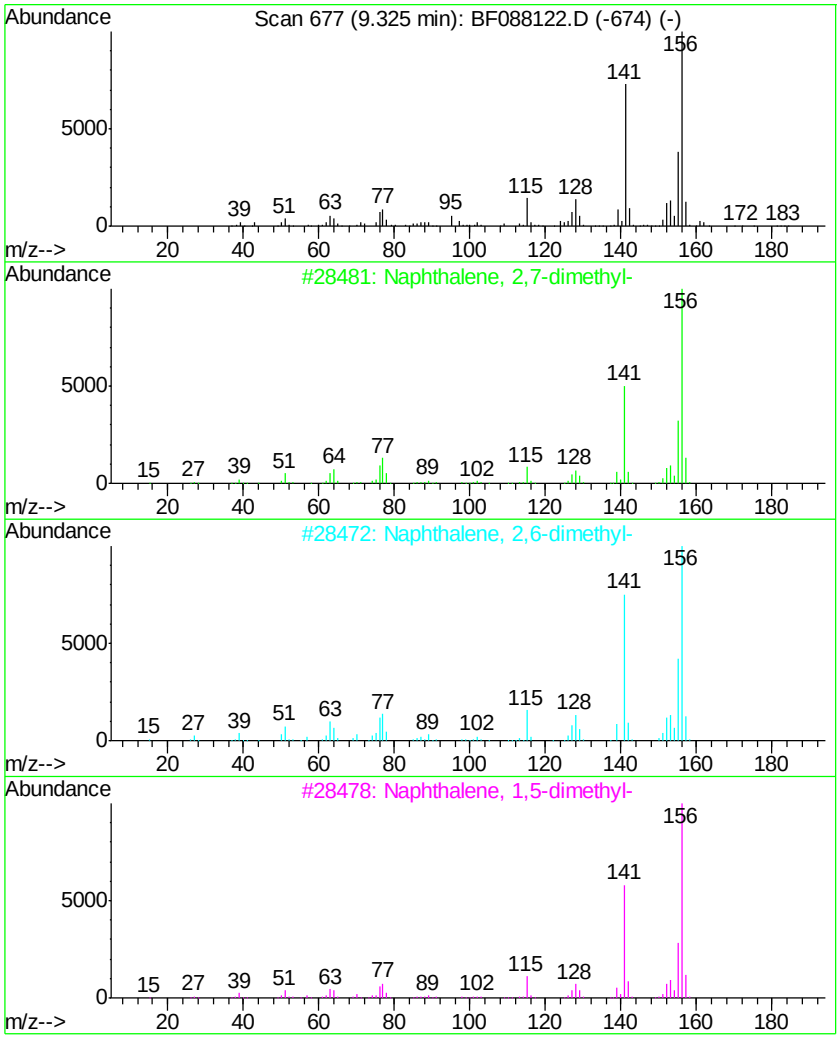
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

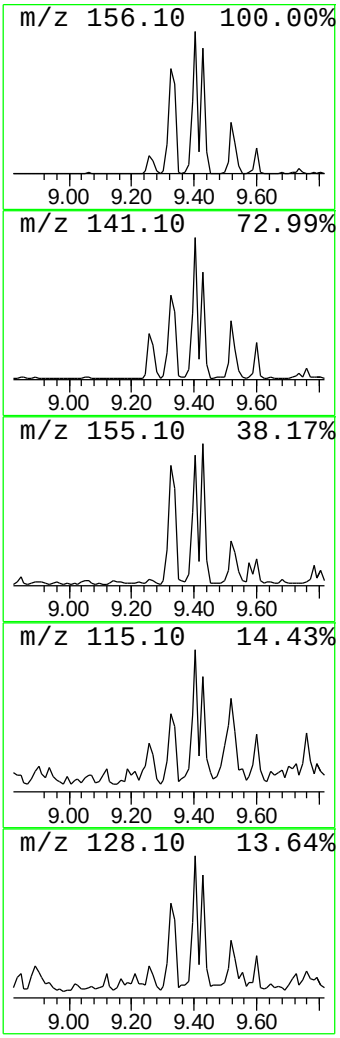
**********

Peak Number 8 Naphthalene, 2,7-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.32 | 61.10 ng | 1798180 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

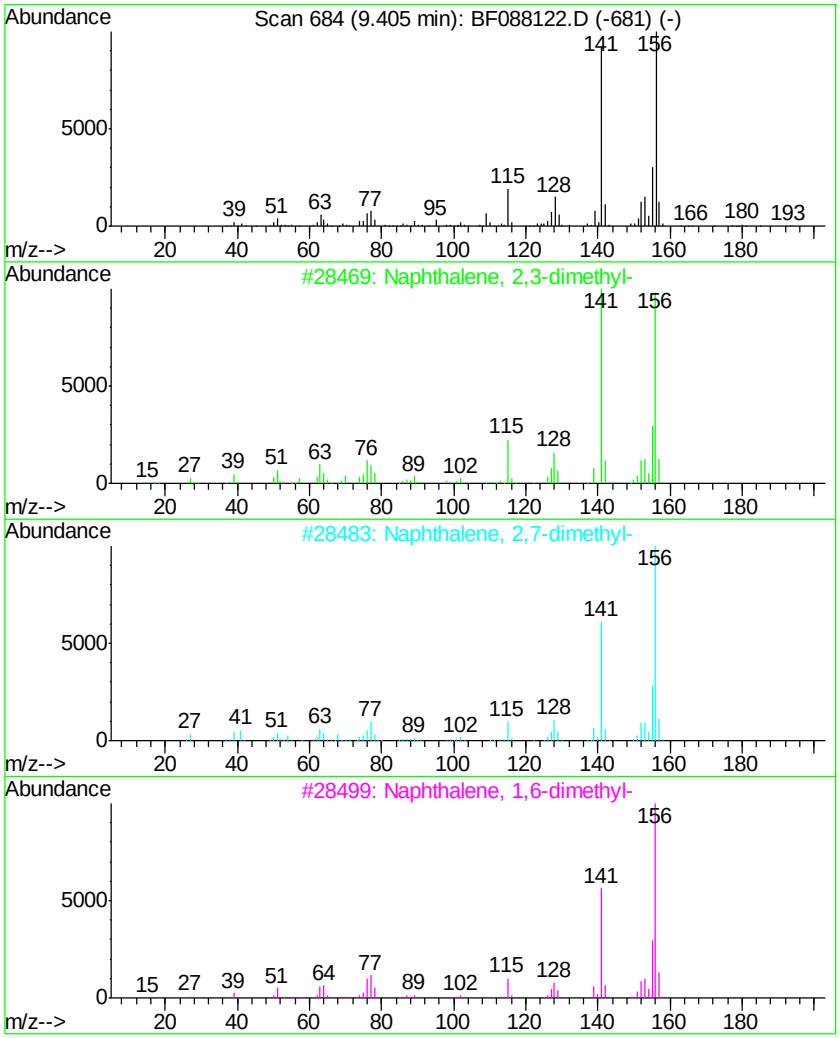
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

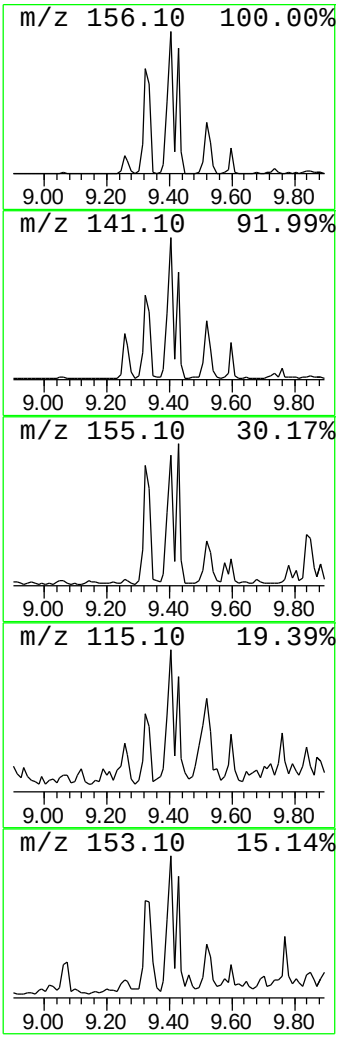
**********

Peak Number 9 Naphthalene, 2,3-dimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.40 | 106.94 ng | 3146940 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

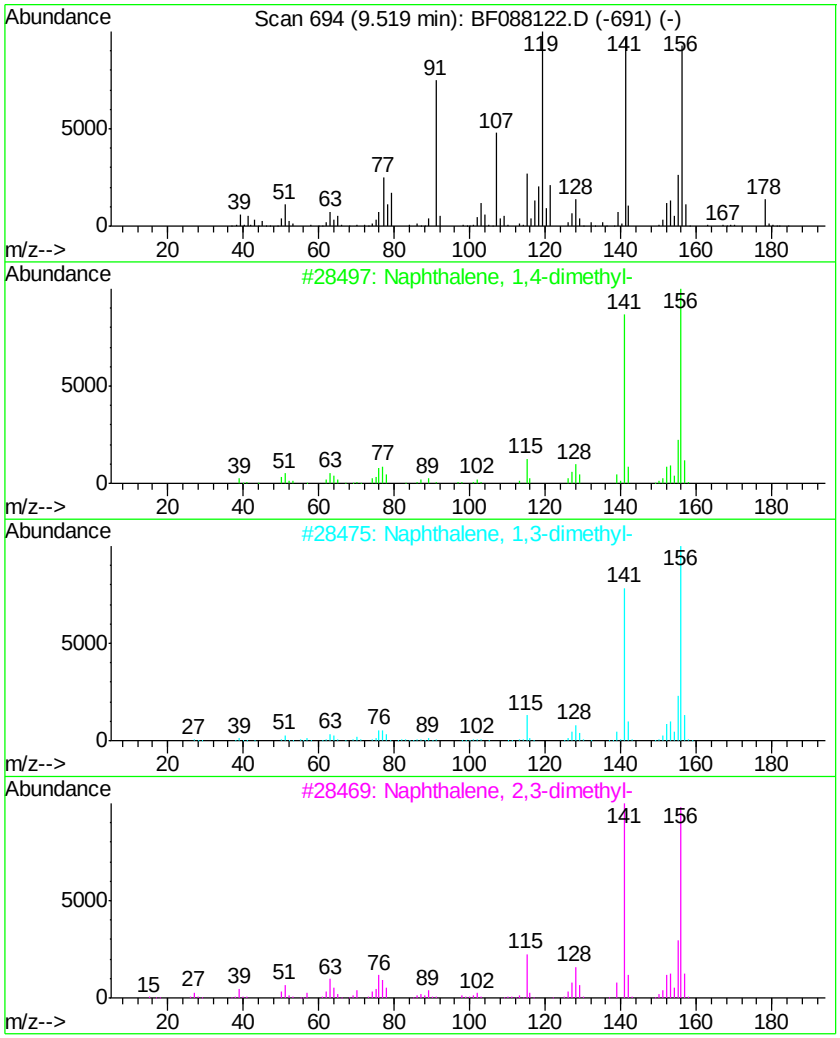
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

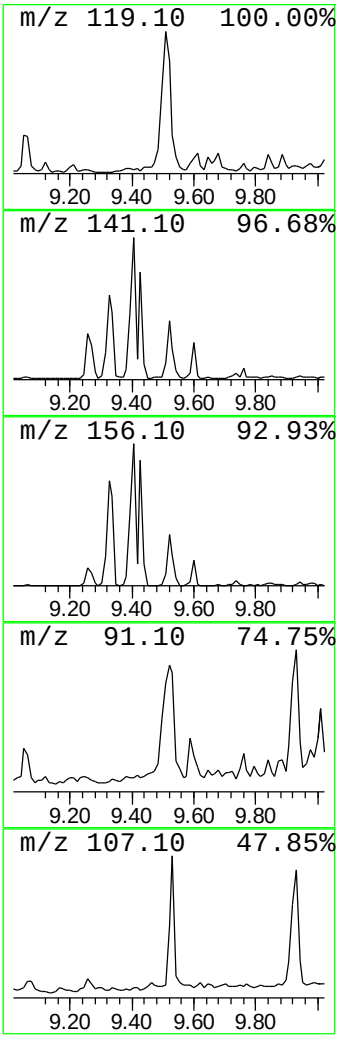
**********

Peak Number 10 Naphthalene, 1,4-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.52 | 76.87 ng | 2262100 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 95 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 95 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 90 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 86 |
| 5 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

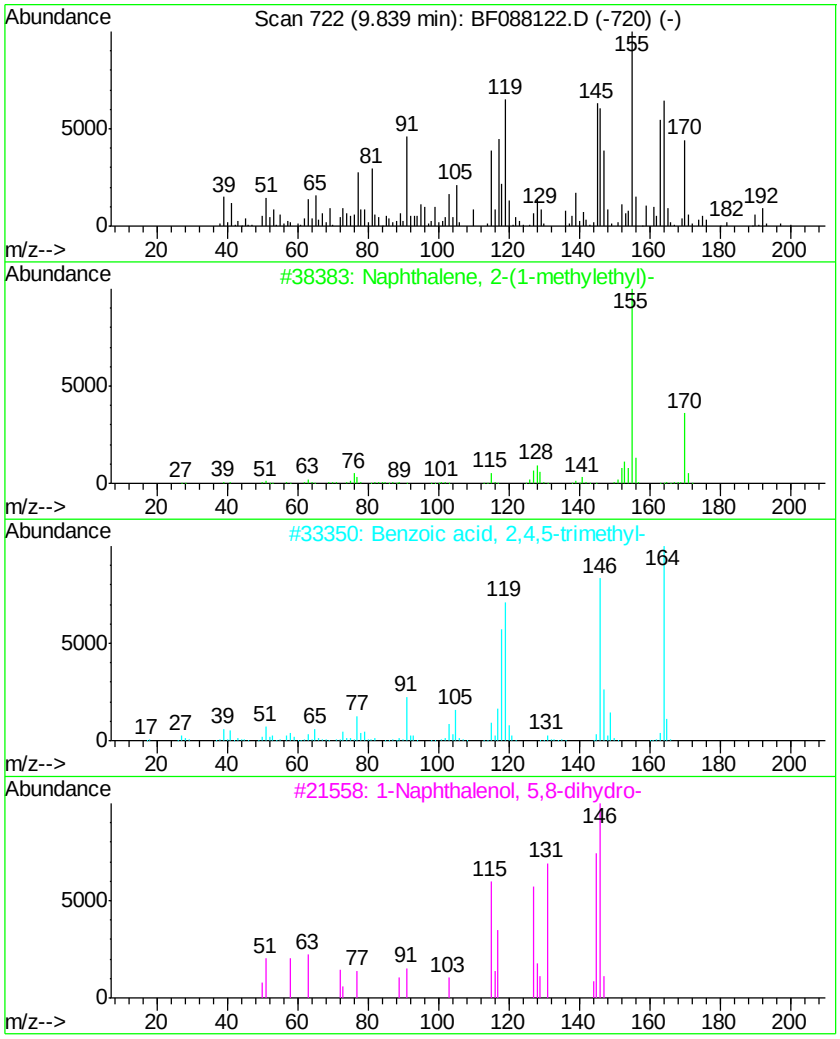
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

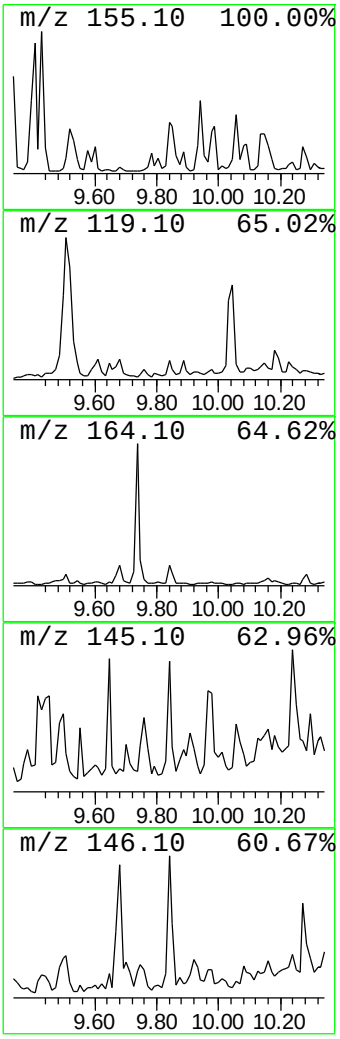
**********

Peak Number 12 unknown9.84 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.84 | 18.00 ng | 529794 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 35 |
| 2 | Benzoic acid, 2,4,5-trimethyl- | 164 | C10H12O2 | 000528-90-5 | 30 |
| 3 | 1-Naphthalenol, 5,8-dihydro- | 146 | C10H10O | 027673-48-9 | 25 |
| 4 | 2-Propenoic acid, 3-(3-hydroxyph... | 164 | C9H8O3 | 000588-30-7 | 20 |
| 5 | 2-Propenal, 2-methyl-3-phenyl- | 146 | C10H10O | 000101-39-3 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

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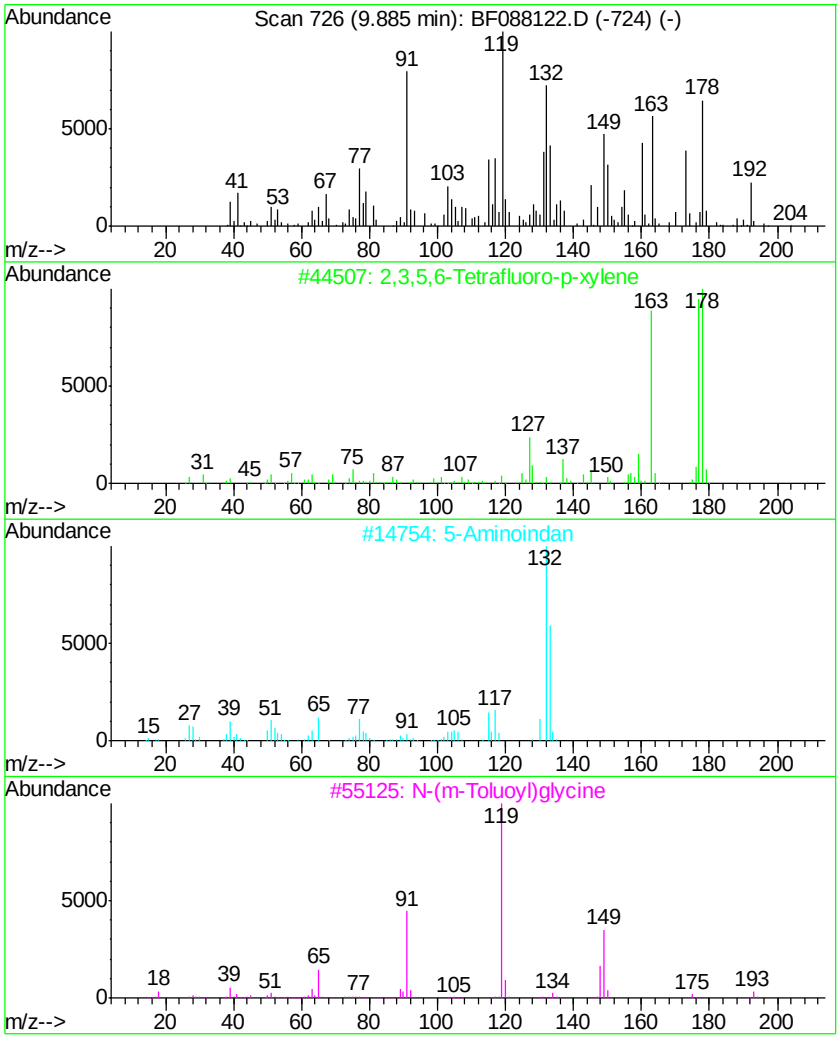
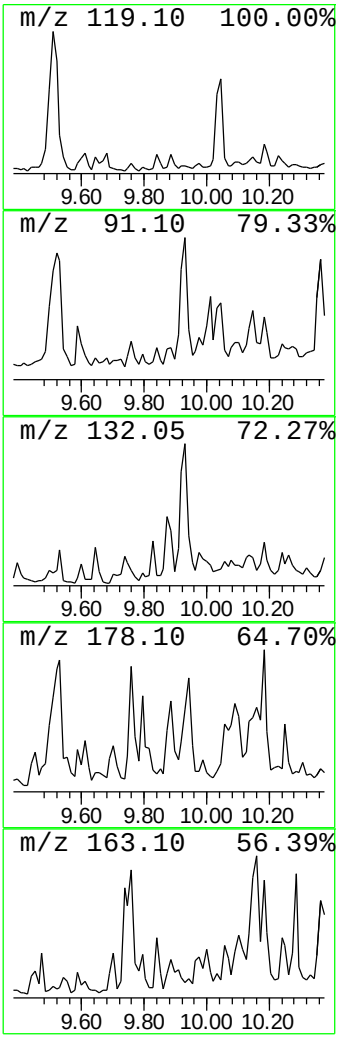
Peak Number 13 unknown9.88 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.88 | 17.22 ng | 506623 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,3,5,6-Tetrafluoro-p-xylene | 178 | C8H6F4 | 000703-87-7 | 25 |
| 2 | 5-Aminoindan | 133 | C9H11N | 024425-40-9 | 25 |
| 3 | N-(m-Toluoyl)glycine | 193 | C10H11NO3 | 027115-49-7 | 18 |
| 4 | 6-Isobutyl-4-methyl-5,6-dihydro-... | 176 | C11H16N2 | 1000185-72-5 | 18 |
| 5 | Benzeneacetic acid, .alpha.-ethy... | 178 | C11H14O2 | 002294-71-5 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

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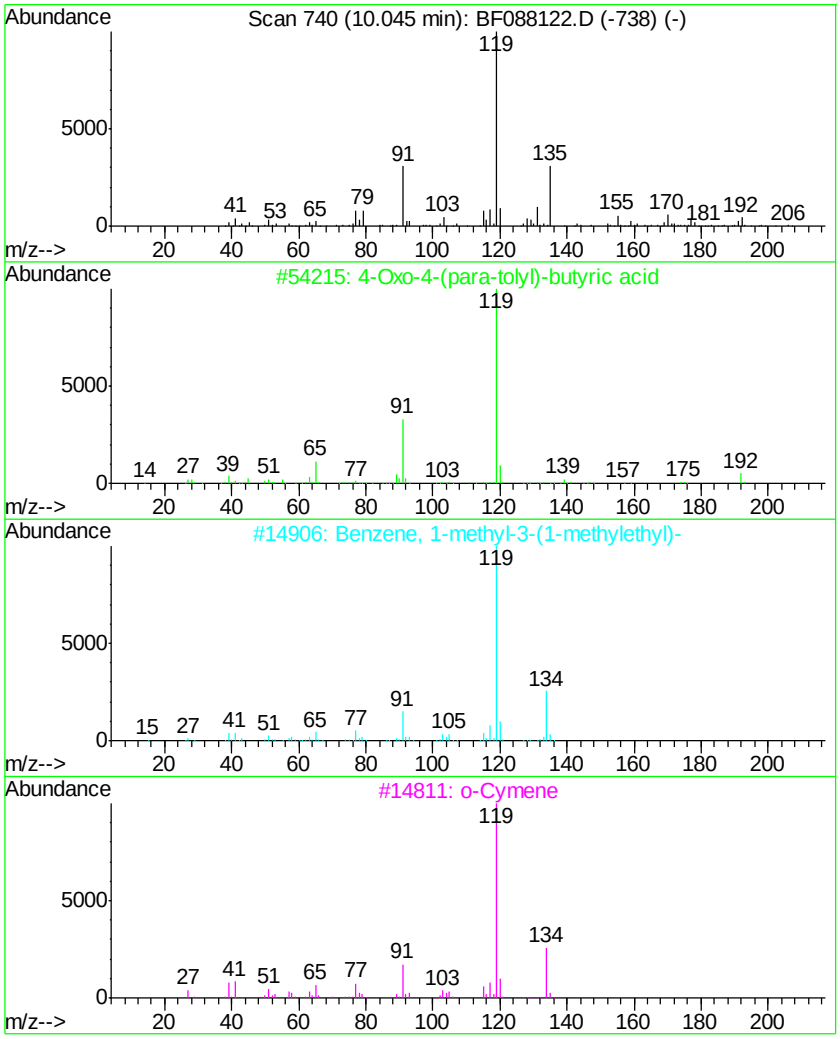
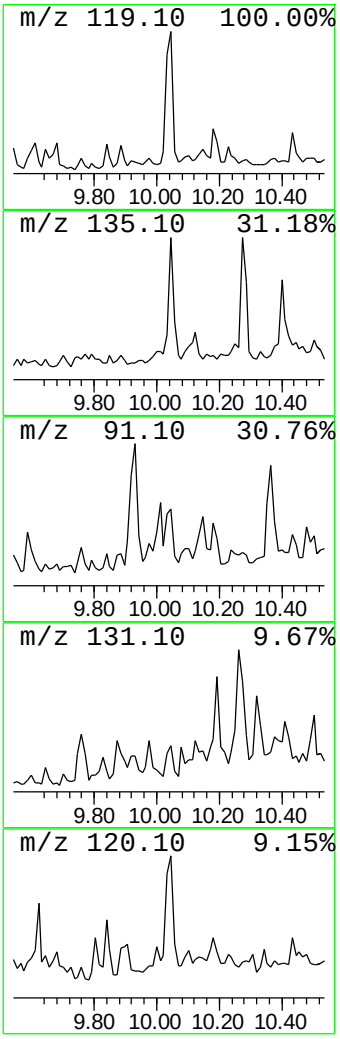
Peak Number 14 4-Oxo-4-(para-tolyl)-butyri... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.04 | 21.47 ng | 631891 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Oxo-4-(para-tolyl)-butyric acid | 192 | C11H12O3 | 004619-20-9 | 50 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 49 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 47 |
| 4 | Benzoic acid, 3-methyl-, 2,4,5-t... | 314 | C14H9Cl3O2 | 1000355-71-4 | 47 |
| 5 | 2-Methylbenzoic acid, 2-fluoroph... | 230 | C14H11FO2 | 1000325-60-5 | 47 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

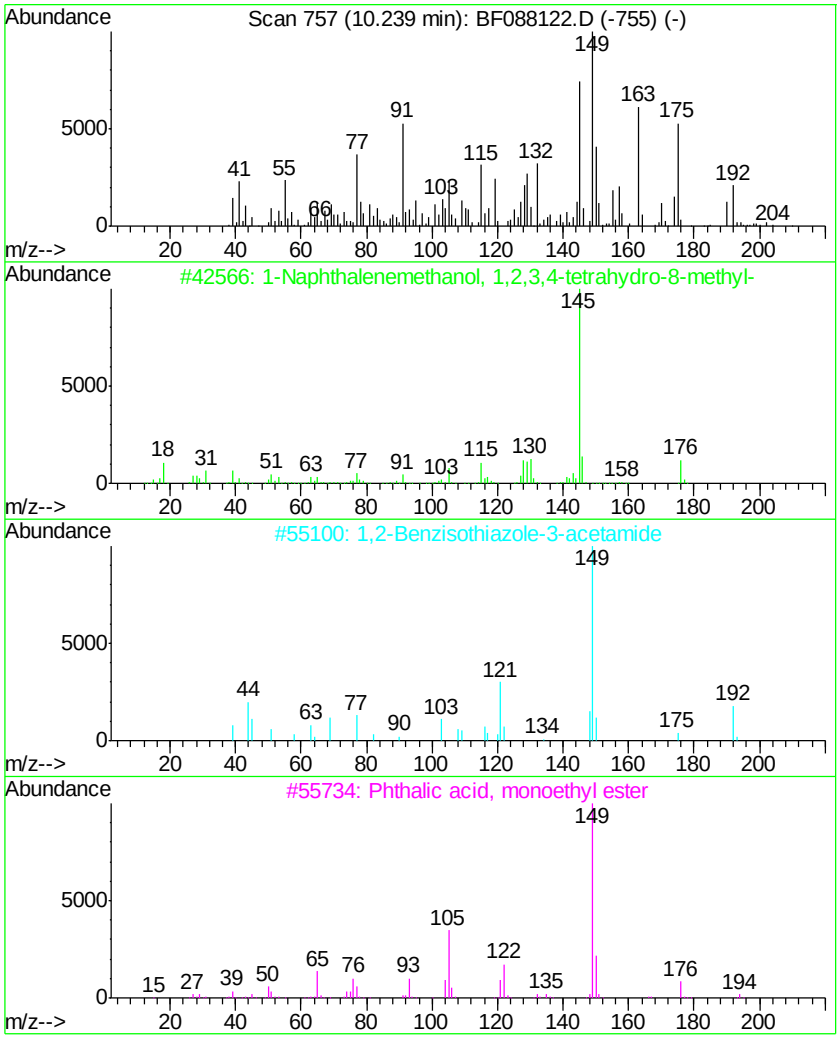
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

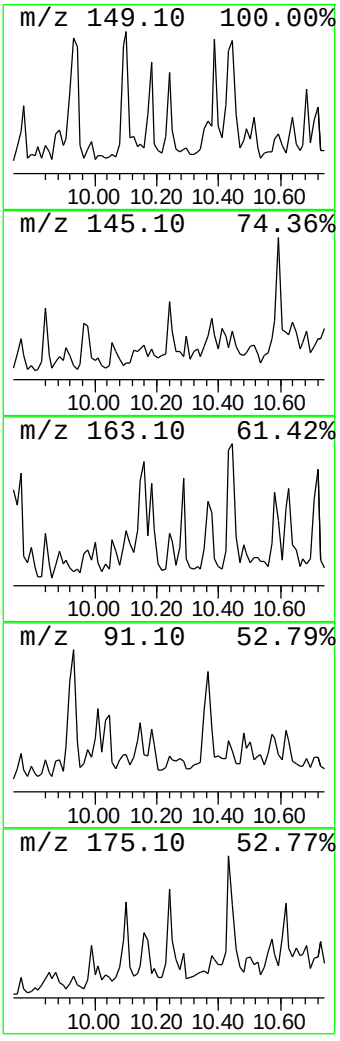
**********

Peak Number 16 unknown10.24 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.24 | 20.07 ng | 590605 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenemethanol, 1,2,3,4-t... | 176 | C12H16O | 036052-28-5 | 25 |
| 2 | 1,2-Benzisothiazole-3-acetamide | 192 | C9H8N2OS | 029273-65-2 | 14 |
| 3 | Phthalic acid, monoethyl ester | 194 | C10H10O4 | 002306-33-4 | 11 |
| 4 | 1-Phenylcyclopentanecarboxylic acid | 190 | C12H14O2 | 000077-55-4 | 11 |
| 5 | Quinazolin-6-ylamine | 145 | C8H7N3 | 101421-72-1 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

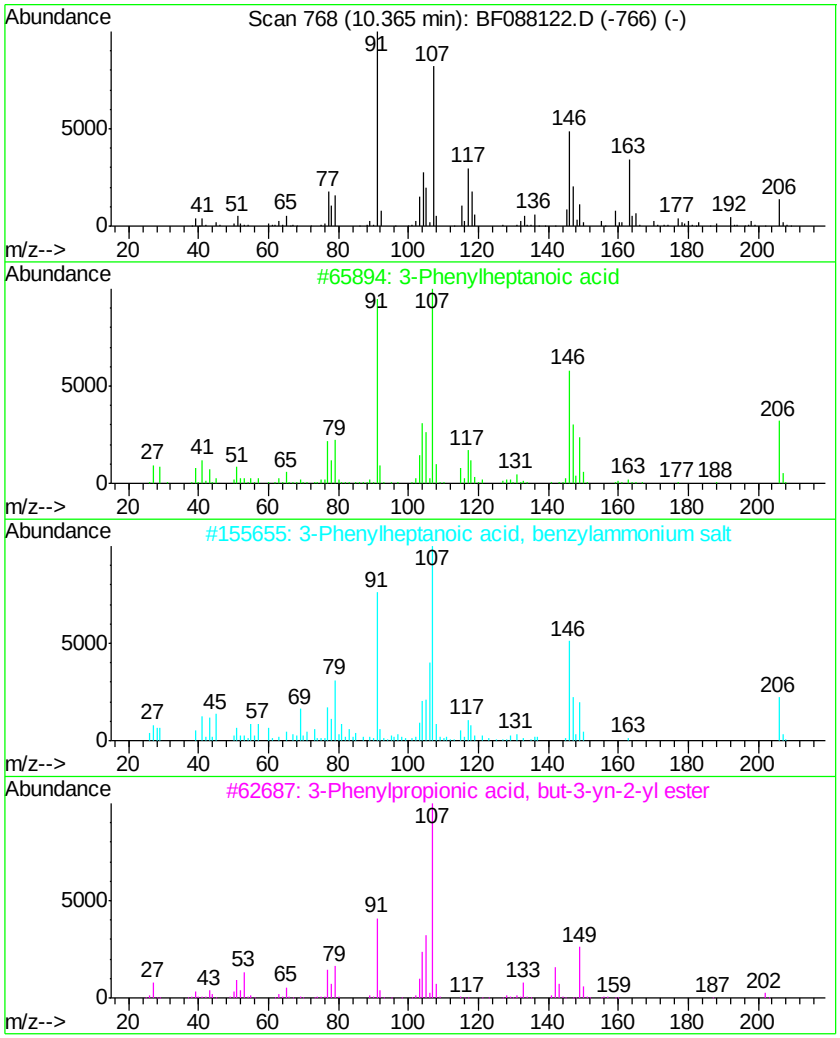
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

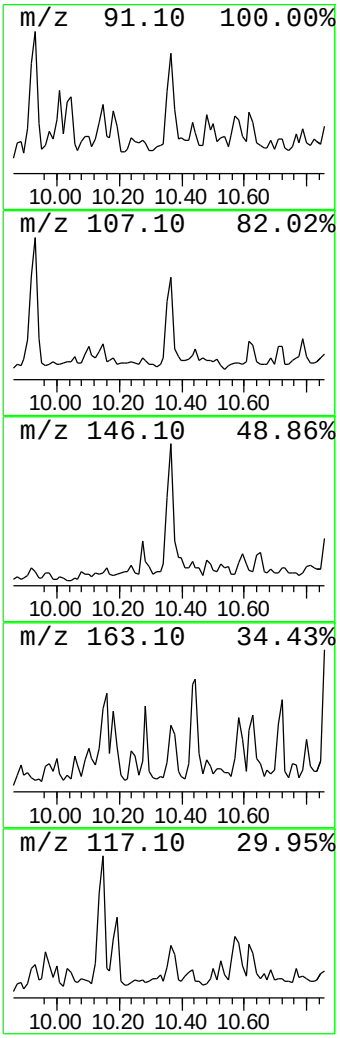
**********

Peak Number 17 3-Phenylheptanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.36 | 38.46 ng | 1131690 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenylheptanoic acid | 206 | C13H18O2 | 005638-30-2 | 62 |
| 2 | 3-Phenylheptanoic acid, benzylam... | 313 | C20H27NO2 | 1000196-52-4 | 50 |
| 3 | 3-Phenylpropionic acid, but-3-yn... | 202 | C13H14O2 | 1000299-17-2 | 27 |
| 4 | p-Propionotoluidide | 163 | C10H13NO | 002759-55-9 | 27 |
| 5 | Benzenemethanol, .alpha.-(bromom... | 200 | C8H9BrO | 002425-28-7 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

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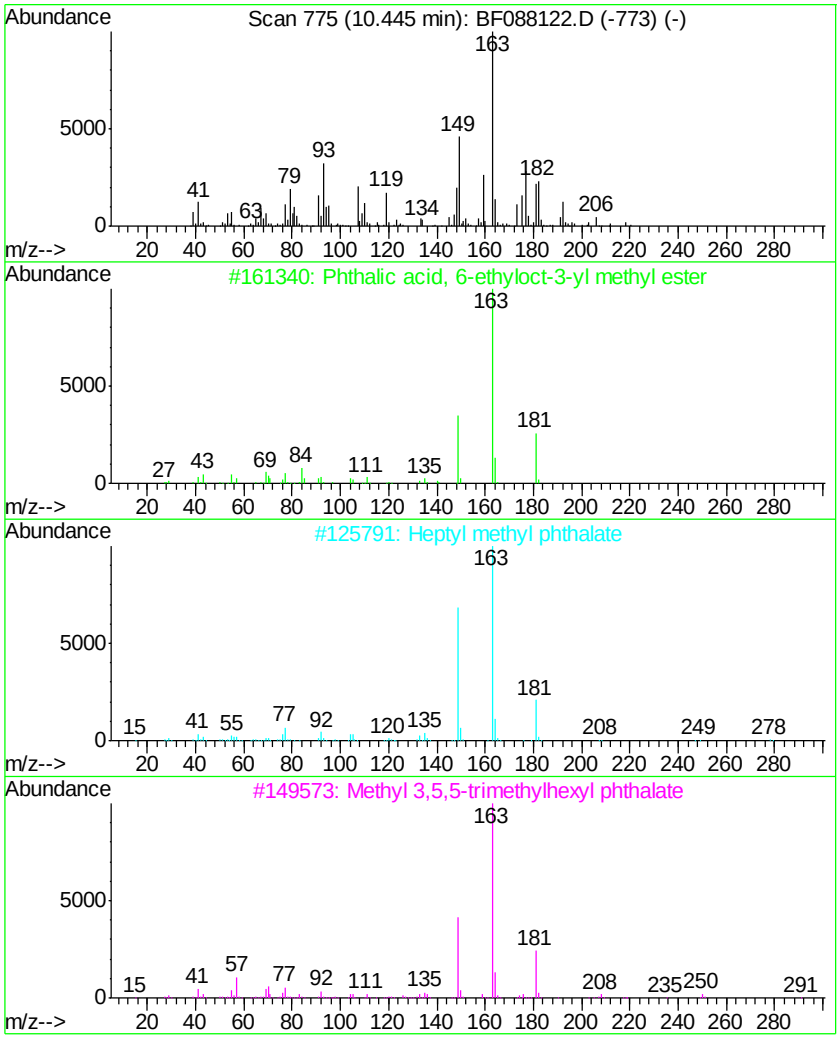
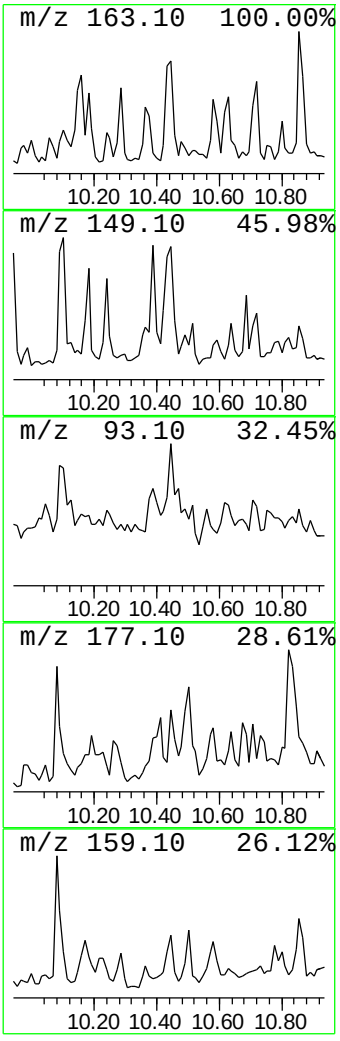
Peak Number 18 unknown10.44 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.44 | 19.08 ng | 561369 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phthalic acid, 6-ethyloct-3-yl m... | 320 | C19H28O4 | 1000315-53-0 | 43 |
| 2 | Heptyl methyl phthalate | 278 | C16H22O4 | 1000373-88-4 | 43 |
| 3 | Methyl 3,5,5-trimethylhexyl phth... | 306 | C18H26O4 | 1000373-81-4 | 43 |
| 4 | Methyl 4-methylpentyl phthalate | 264 | C15H20O4 | 1000373-82-6 | 43 |
| 5 | Phthalic acid, 5-methoxy-3-methy... | 294 | C16H22O5 | 1000314-88-2 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

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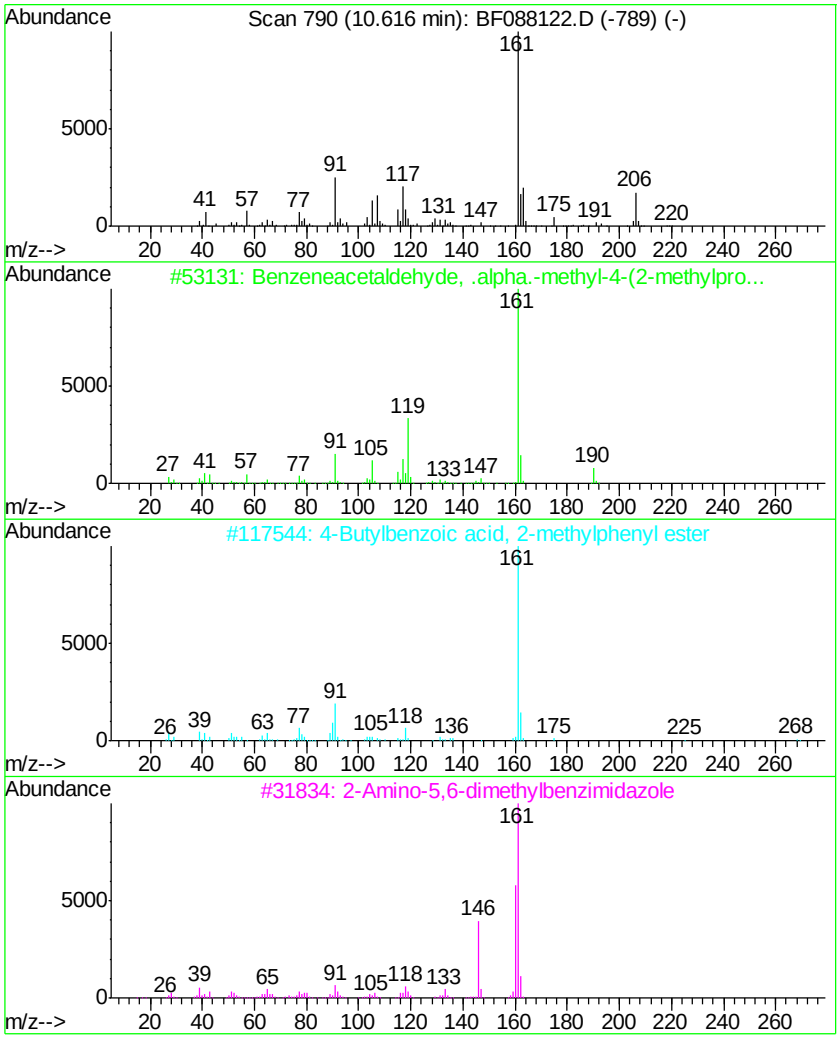
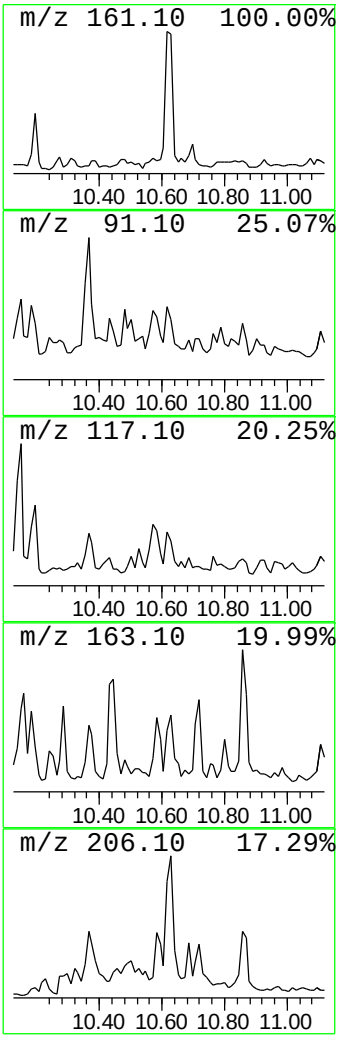
Peak Number 19 unknown10.62 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.62 | 25.86 ng | 1086270 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetaldehyde, .alpha.-met... | 190 | C13H18O | 051407-46-6 | 47 |
| 2 | 4-Butylbenzoic acid, 2-methylphe... | 268 | C18H20O2 | 1000293-58-3 | 47 |
| 3 | 2-Amino-5,6-dimethylbenzimidazole | 161 | C9H11N3 | 029096-75-1 | 47 |
| 4 | (7-Methylbenzo(b)thien-3-yl)acet... | 206 | C11H10O2S | 001606-17-3 | 47 |
| 5 | 3-Isobutyl-4,5-dimethyl-3H-isobe... | 218 | C14H18O2 | 1000187-23-3 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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

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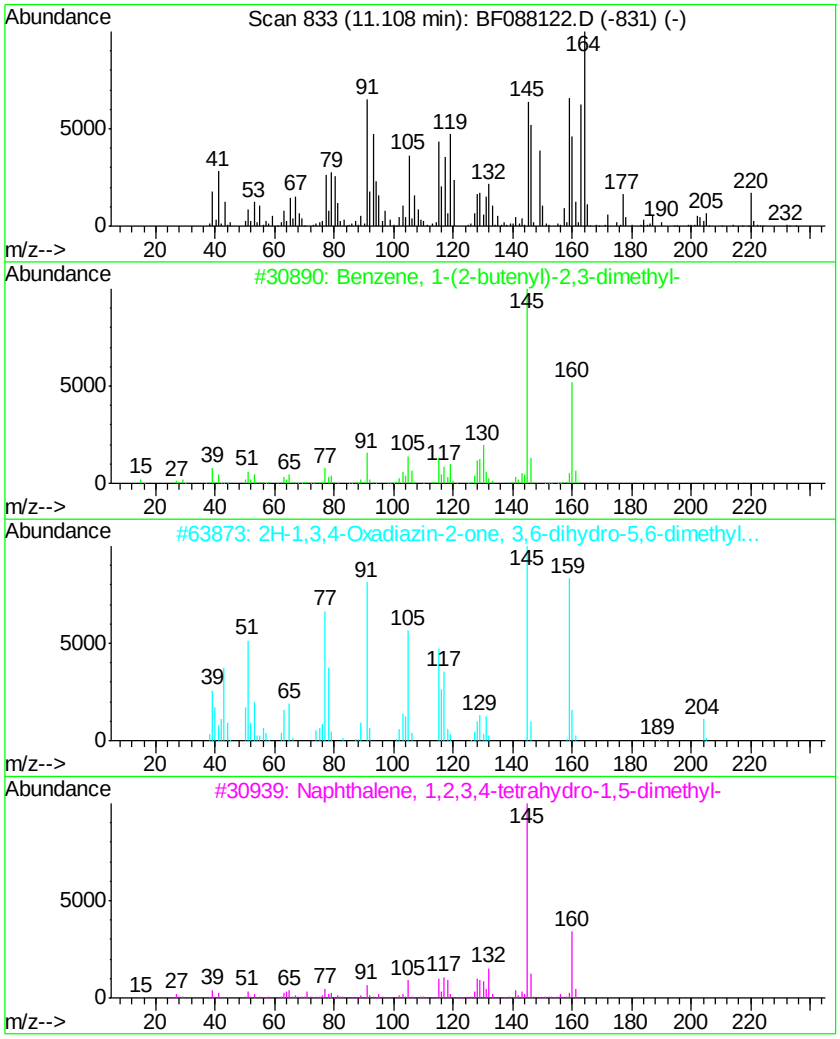
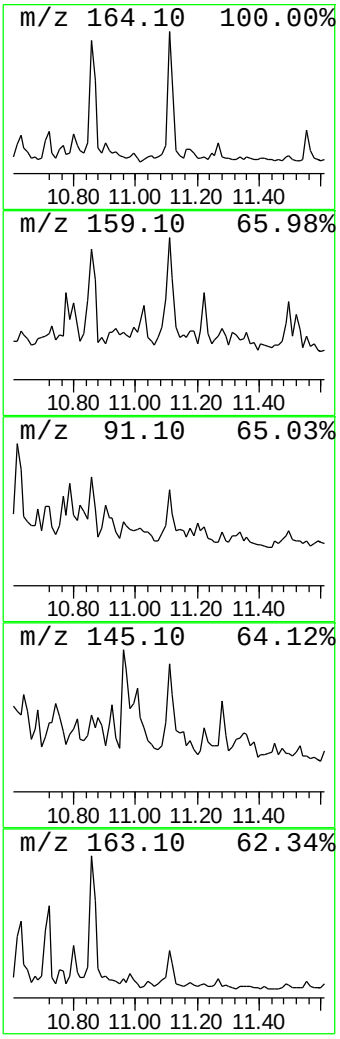
Peak Number 20 unknown11.11 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.11 | 17.28 ng | 726110 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 25 |
| 2 | 2H-1,3,4-Oxadiazin-2-one, 3,6-di... | 204 | C11H12N2O2 | 1000338-30-1 | 25 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-91-0 | 25 |
| 4 | 2-(5-Methyl-3-pyrrolyl)piperidine | 164 | C10H16N2 | 1000245-18-2 | 18 |
| 5 | 4-Methoxy-2-allylphenol | 164 | C10H12O2 | 1000306-52-7 | 18 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061716\
Data File : BF088122.D
Acq On : 18 Jun 2016 6:00
Operator : UM/SJ
Sample : H3574-06
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-26

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 | 59.7 | ng | 1806050 | 1 | 6.70 | 605340 | 20.0 |
| Benzene, 1,3-diet... | 6.95 | 16.6 | ng | 502657 | 1 | 6.70 | 605340 | 20.0 |
| 1-Phenyl-1-butene | 7.72 | 19.1 | ng | 1978810 | 2 | 7.99 | 2070310 | 20.0 |
| Naphthalene, 1-et... | 9.26 | 64.4 | ng | 1895180 | 3 | 9.74 | 588571 | 20.0 |
| Naphthalene, 2,7-... | 9.32 | 61.1 | ng | 1798180 | 3 | 9.74 | 588571 | 20.0 |
| Naphthalene, 2,3-... | 9.40 | 106.9 | ng | 3146940 | 3 | 9.74 | 588571 | 20.0 |
| Naphthalene, 1,4-... | 9.52 | 76.9 | ng | 2262100 | 3 | 9.74 | 588571 | 20.0 |
| unknown9.84 | 9.84 | 18.0 | ng | 529794 | 3 | 9.74 | 588571 | 20.0 |
| unknown9.88 | 9.88 | 17.2 | ng | 506623 | 3 | 9.74 | 588571 | 20.0 |
| 4-Oxo-4-(para-tol... | 10.04 | 21.5 | ng | 631891 | 3 | 9.74 | 588571 | 20.0 |
| unknown10.24 | 10.24 | 20.1 | ng | 590605 | 3 | 9.74 | 588571 | 20.0 |
| 3-Phenylheptanoic... | 10.36 | 38.5 | ng | 1131690 | 3 | 9.74 | 588571 | 20.0 |
| unknown10.44 | 10.44 | 19.1 | ng | 561369 | 3 | 9.74 | 588571 | 20.0 |
| unknown10.62 | 10.62 | 25.9 | ng | 1086270 | 4 | 11.22 | 840186 | 20.0 |
| unknown11.11 | 11.11 | 17.3 | ng | 726110 | 4 | 11.22 | 840186 | 20.0 |