LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.810 | 135 | 140 | 148 | rVB3 | 6485 | 10884 | 0.70% | 0.125% |
| 2 | 5.081 | 352 | 356 | 361 | rVB | 9705 | 13641 | 0.88% | 0.156% |
| 3 | 5.210 | 374 | 378 | 388 | rBV2 | 6768 | 14210 | 0.91% | 0.163% |
| 4 | 7.263 | 724 | 727 | 732 | rVB2 | 4963 | 7417 | 0.48% | 0.085% |
| 5 | 7.539 | 769 | 774 | 783 | rBV | 109319 | 177534 | 11.42% | 2.032% |
| 6 | 7.892 | 828 | 834 | 843 | rBB | 96078 | 148094 | 9.53% | 1.695% |
| 7 | 8.016 | 850 | 855 | 860 | rBV3 | 9522 | 16098 | 1.04% | 0.184% |
| 8 | 8.969 | 1013 | 1017 | 1021 | rBV2 | 9269 | 15927 | 1.02% | 0.182% |
| 9 | 9.010 | 1021 | 1024 | 1029 | rVB2 | 6022 | 9013 | 0.58% | 0.103% |
| 10 | 9.522 | 1106 | 1111 | 1114 | rBV2 | 35297 | 50797 | 3.27% | 0.581% |
| 11 | 9.551 | 1114 | 1116 | 1124 | rVB2 | 16925 | 27102 | 1.74% | 0.310% |
| 12 | 9.704 | 1133 | 1142 | 1146 | rBV4 | 4576 | 8611 | 0.55% | 0.099% |
| 13 | 9.833 | 1153 | 1164 | 1175 | rBB | 42945 | 79384 | 5.11% | 0.908% |
| 14 | 9.975 | 1184 | 1188 | 1194 | rBB2 | 8221 | 11461 | 0.74% | 0.131% |
| 15 | 10.233 | 1226 | 1232 | 1233 | rBV2 | 8047 | 12643 | 0.81% | 0.145% |
| 16 | 10.245 | 1233 | 1234 | 1239 | rVV4 | 10455 | 17052 | 1.10% | 0.195% |
| 17 | 10.310 | 1239 | 1245 | 1249 | rVV | 184598 | 320621 | 20.63% | 3.669% |
| 18 | 10.363 | 1249 | 1254 | 1268 | rVV | 978462 | 1553960 | 100.00% | 17.783% |
| 19 | 10.480 | 1268 | 1274 | 1281 | rVV2 | 61075 | 100107 | 6.44% | 1.146% |
| 20 | 10.869 | 1334 | 1340 | 1346 | rBV3 | 13771 | 27165 | 1.75% | 0.311% |
| 21 | 11.174 | 1387 | 1392 | 1400 | rBB | 18809 | 32663 | 2.10% | 0.374% |
| 22 | 11.357 | 1420 | 1423 | 1428 | rBV | 5238 | 8549 | 0.55% | 0.098% |
| 23 | 11.410 | 1428 | 1432 | 1438 | rVV2 | 9888 | 17346 | 1.12% | 0.198% |
| 24 | 11.751 | 1485 | 1490 | 1499 | rBB3 | 23245 | 42793 | 2.75% | 0.490% |
| 25 | 11.880 | 1505 | 1512 | 1519 | rBV3 | 5112 | 10174 | 0.65% | 0.116% |
| 26 | 11.986 | 1521 | 1530 | 1537 | rVB | 71694 | 108124 | 6.96% | 1.237% |
| 27 | 12.110 | 1548 | 1551 | 1556 | rVV2 | 10461 | 14771 | 0.95% | 0.169% |
| 28 | 12.210 | 1559 | 1568 | 1577 | rVB | 169355 | 277529 | 17.86% | 3.176% |
| 29 | 12.416 | 1596 | 1603 | 1608 | rVV5 | 8737 | 17619 | 1.13% | 0.202% |
| 30 | 13.021 | 1696 | 1706 | 1713 | rBV2 | 42018 | 63556 | 4.09% | 0.727% |
| 31 | 13.215 | 1735 | 1739 | 1748 | rBB3 | 4093 | 9285 | 0.60% | 0.106% |
| 32 | 13.351 | 1757 | 1762 | 1764 | rBV3 | 14304 | 21901 | 1.41% | 0.251% |
| 33 | 13.504 | 1780 | 1788 | 1795 | rBV3 | 20966 | 43656 | 2.81% | 0.500% |
| 34 | 13.563 | 1795 | 1798 | 1805 | rVB2 | 14831 | 18626 | 1.20% | 0.213% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.627 | 1805 | 1809 | 1814 | rBV2 | 7680 | 8842 | 0.57% | 0.101% |
| 36 | 13.710 | 1819 | 1823 | 1826 | rBV | 6351 | 7492 | 0.48% | 0.086% |
| 37 | 13.751 | 1826 | 1830 | 1833 | rVV2 | 7150 | 9464 | 0.61% | 0.108% |
| 38 | 13.892 | 1850 | 1854 | 1856 | rBV2 | 8637 | 11678 | 0.75% | 0.134% |
| 39 | 13.915 | 1856 | 1858 | 1865 | rVB3 | 8138 | 11682 | 0.75% | 0.134% |
| 40 | 14.198 | 1895 | 1906 | 1911 | rBV2 | 295123 | 453155 | 29.16% | 5.186% |
| 41 | 14.262 | 1911 | 1917 | 1924 | rVV | 303512 | 433143 | 27.87% | 4.957% |
| 42 | 14.362 | 1930 | 1934 | 1938 | rVV | 32013 | 46443 | 2.99% | 0.531% |
| 43 | 14.421 | 1938 | 1944 | 1952 | rVV | 67617 | 114904 | 7.39% | 1.315% |
| 44 | 14.492 | 1952 | 1956 | 1961 | rVV2 | 14488 | 25986 | 1.67% | 0.297% |
| 45 | 14.533 | 1961 | 1963 | 1970 | rVV4 | 7342 | 14378 | 0.93% | 0.165% |
| 46 | 14.604 | 1970 | 1975 | 1982 | rVV | 153526 | 215061 | 13.84% | 2.461% |
| 47 | 14.721 | 1990 | 1995 | 2000 | rVV | 14295 | 23092 | 1.49% | 0.264% |
| 48 | 14.780 | 2000 | 2005 | 2009 | rVV5 | 8637 | 14881 | 0.96% | 0.170% |
| 49 | 15.127 | 2059 | 2064 | 2066 | rBV3 | 9401 | 12654 | 0.81% | 0.145% |
| 50 | 15.204 | 2073 | 2077 | 2081 | rVB2 | 12948 | 16798 | 1.08% | 0.192% |
| 51 | 15.257 | 2081 | 2086 | 2096 | rVB | 145508 | 208661 | 13.43% | 2.388% |
| 52 | 15.380 | 2103 | 2107 | 2110 | rVV | 4652 | 9107 | 0.59% | 0.104% |
| 53 | 15.421 | 2110 | 2114 | 2121 | rVV4 | 25761 | 49191 | 3.17% | 0.563% |
| 54 | 15.509 | 2125 | 2129 | 2140 | rVV5 | 14099 | 40208 | 2.59% | 0.460% |
| 55 | 15.609 | 2142 | 2146 | 2152 | rVB2 | 9261 | 12453 | 0.80% | 0.143% |
| 56 | 15.668 | 2152 | 2156 | 2160 | rBV2 | 8233 | 14080 | 0.91% | 0.161% |
| 57 | 15.715 | 2160 | 2164 | 2170 | rVB3 | 11634 | 20980 | 1.35% | 0.240% |
| 58 | 15.968 | 2201 | 2207 | 2218 | rVV4 | 87541 | 189930 | 12.22% | 2.173% |
| 59 | 16.056 | 2218 | 2222 | 2223 | rVV | 7341 | 8673 | 0.56% | 0.099% |
| 60 | 16.092 | 2223 | 2228 | 2238 | rVV | 93585 | 162166 | 10.44% | 1.856% |
| 61 | 16.180 | 2238 | 2243 | 2249 | rVV2 | 19700 | 32808 | 2.11% | 0.375% |
| 62 | 16.251 | 2249 | 2255 | 2266 | rVV | 102173 | 185606 | 11.94% | 2.124% |
| 63 | 16.533 | 2299 | 2303 | 2307 | rVV2 | 13429 | 18429 | 1.19% | 0.211% |
| 64 | 16.668 | 2322 | 2326 | 2331 | rVV | 5997 | 8637 | 0.56% | 0.099% |
| 65 | 16.756 | 2337 | 2341 | 2349 | rBV3 | 15428 | 36809 | 2.37% | 0.421% |
| 66 | 16.839 | 2349 | 2355 | 2359 | rVV3 | 21174 | 36511 | 2.35% | 0.418% |
| 67 | 16.886 | 2359 | 2363 | 2369 | rVV7 | 11496 | 29218 | 1.88% | 0.334% |
| 68 | 16.962 | 2370 | 2376 | 2380 | rVV | 413428 | 612244 | 39.40% | 7.006% |
| 69 | 17.003 | 2380 | 2383 | 2388 | rVV | 173448 | 234995 | 15.12% | 2.689% |
| 70 | 17.062 | 2388 | 2393 | 2397 | rVV3 | 19347 | 38268 | 2.46% | 0.438% |
| 71 | 17.103 | 2397 | 2400 | 2405 | rVV3 | 17630 | 40276 | 2.59% | 0.461% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.139 | 2405 | 2406 | 2410 | rVV3 | 16476 | 22336 | 1.44% | 0.256% |
| 73 | 17.174 | 2410 | 2412 | 2417 | rVB3 | 11681 | 13030 | 0.84% | 0.149% |
| 74 | 17.227 | 2417 | 2421 | 2425 | rBV2 | 5755 | 7456 | 0.48% | 0.085% |
| 75 | 17.386 | 2437 | 2448 | 2454 | rBV | 151319 | 248191 | 15.97% | 2.840% |
| 76 | 17.456 | 2454 | 2460 | 2462 | rVV6 | 5672 | 11440 | 0.74% | 0.131% |
| 77 | 17.492 | 2462 | 2466 | 2473 | rVV3 | 21773 | 35688 | 2.30% | 0.408% |
| 78 | 17.556 | 2473 | 2477 | 2483 | rVB | 23877 | 33106 | 2.13% | 0.379% |
| 79 | 17.633 | 2483 | 2490 | 2494 | rBV2 | 3123 | 7446 | 0.48% | 0.085% |
| 80 | 17.821 | 2518 | 2522 | 2527 | rBV3 | 9755 | 15814 | 1.02% | 0.181% |
| 81 | 17.898 | 2530 | 2535 | 2539 | rVV5 | 24553 | 40411 | 2.60% | 0.462% |
| 82 | 17.986 | 2546 | 2550 | 2555 | rVB2 | 12787 | 18208 | 1.17% | 0.208% |
| 83 | 18.033 | 2555 | 2558 | 2561 | rVB3 | 7104 | 8617 | 0.55% | 0.099% |
| 84 | 18.139 | 2572 | 2576 | 2584 | rBV4 | 23055 | 44110 | 2.84% | 0.505% |
| 85 | 18.256 | 2592 | 2596 | 2599 | rBV4 | 5695 | 8631 | 0.56% | 0.099% |
| 86 | 18.298 | 2599 | 2603 | 2608 | rVB7 | 5566 | 9030 | 0.58% | 0.103% |
| 87 | 18.433 | 2620 | 2626 | 2628 | rBV4 | 6182 | 10364 | 0.67% | 0.119% |
| 88 | 18.839 | 2690 | 2695 | 2703 | rBV2 | 22806 | 38238 | 2.46% | 0.438% |
| 89 | 19.033 | 2720 | 2728 | 2733 | rBV2 | 20494 | 32501 | 2.09% | 0.372% |
| 90 | 19.150 | 2745 | 2748 | 2752 | rVV3 | 10398 | 13506 | 0.87% | 0.155% |
| 91 | 19.374 | 2782 | 2786 | 2789 | rBV2 | 20087 | 27419 | 1.76% | 0.314% |
| 92 | 19.750 | 2847 | 2850 | 2853 | rBV4 | 6473 | 7544 | 0.49% | 0.086% |
| 93 | 19.803 | 2855 | 2859 | 2862 | rVV3 | 6077 | 8566 | 0.55% | 0.098% |
| 94 | 19.892 | 2869 | 2874 | 2881 | rVV | 33160 | 49774 | 3.20% | 0.570% |
| 95 | 20.544 | 2981 | 2985 | 2991 | rBV2 | 28785 | 47426 | 3.05% | 0.543% |
| 96 | 21.174 | 3087 | 3092 | 3097 | rBV2 | 481217 | 600872 | 38.67% | 6.876% |
| 97 | 22.180 | 3260 | 3263 | 3267 | rVB3 | 23354 | 27899 | 1.80% | 0.319% |
| 98 | 22.662 | 3342 | 3345 | 3351 | rVB2 | 33541 | 45908 | 2.95% | 0.525% |
| 99 | 23.203 | 3434 | 3437 | 3450 | rVB4 | 43220 | 79551 | 5.12% | 0.910% |
| 100 | 23.368 | 3459 | 3465 | 3475 | rBV | 261089 | 508388 | 32.72% | 5.818% |

Sum of corrected areas: 8738686

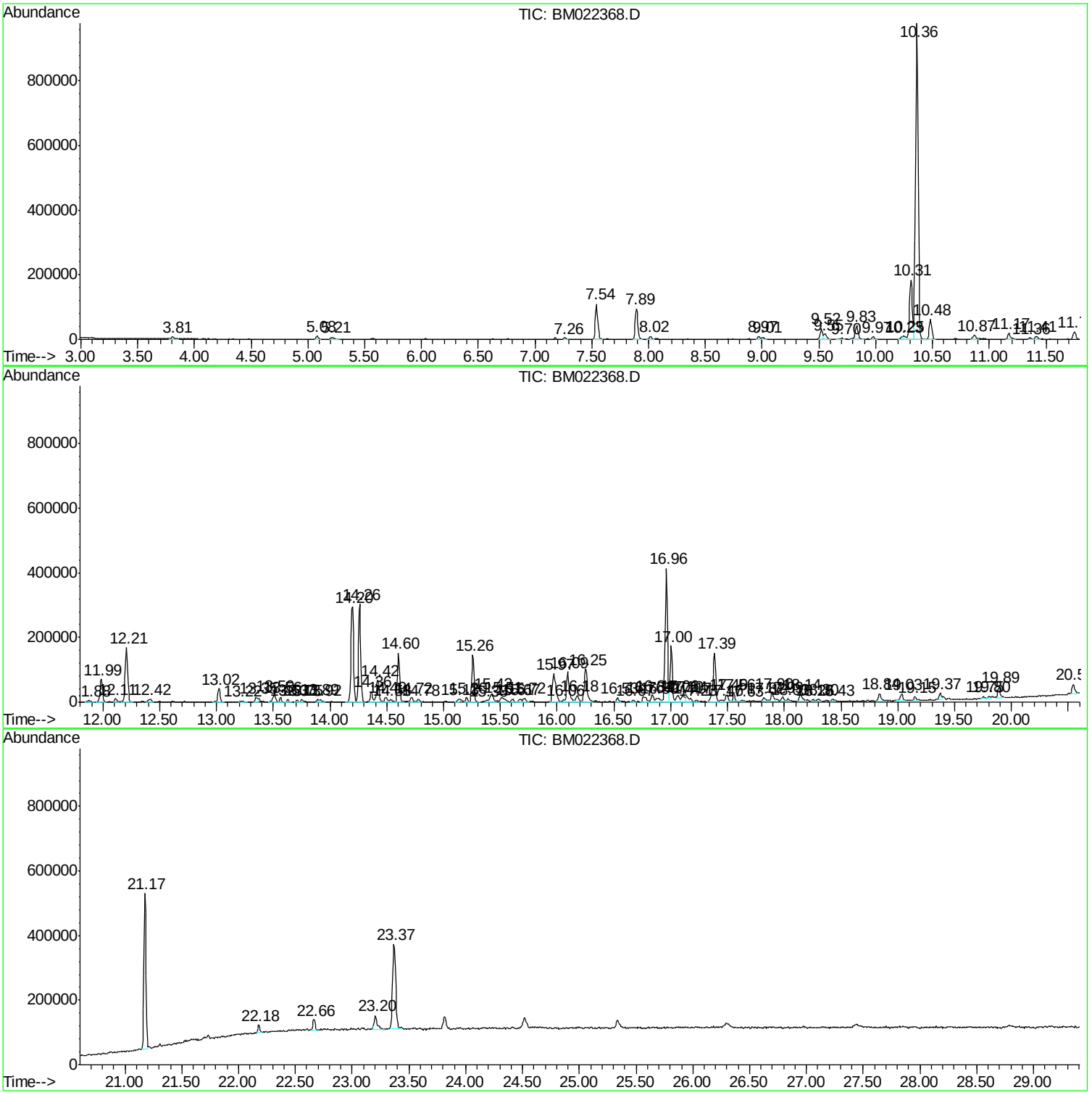
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

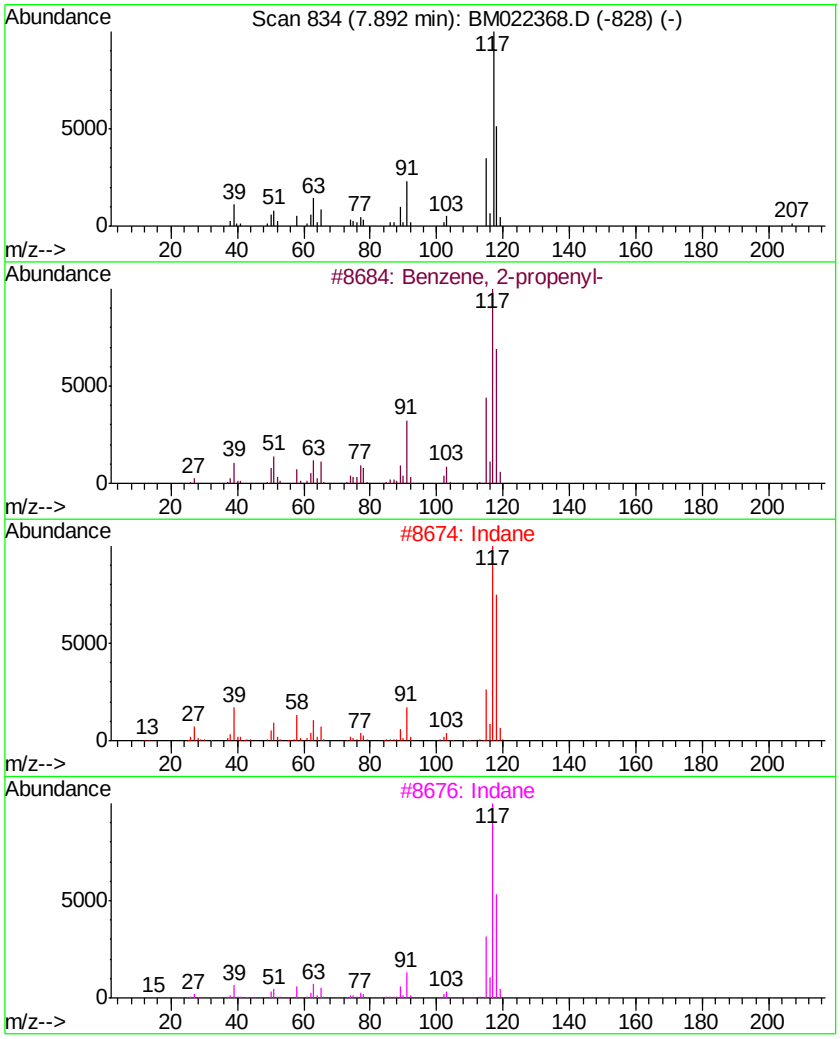
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

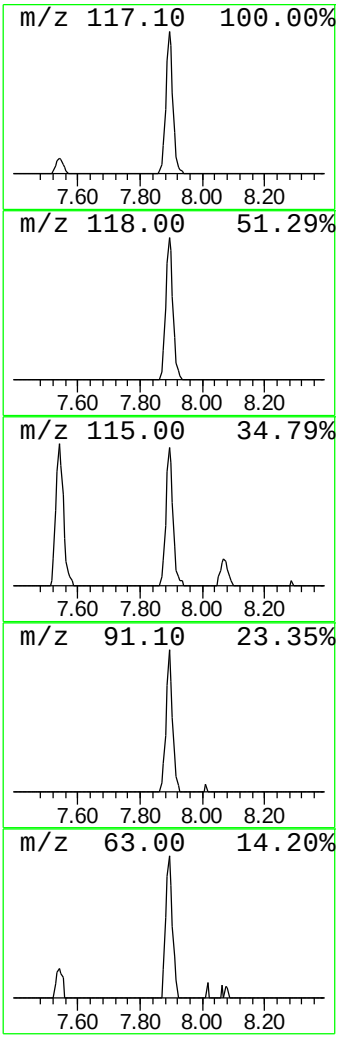
**********

Peak Number 1 Benzene, 2-propenyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.89 | 16.68 ng/ul | 148094 | 1,4-Dichlorobenzene-d4 | 7.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 90 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 87 |
| 3 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 4 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 64 |
| 5 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 64 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

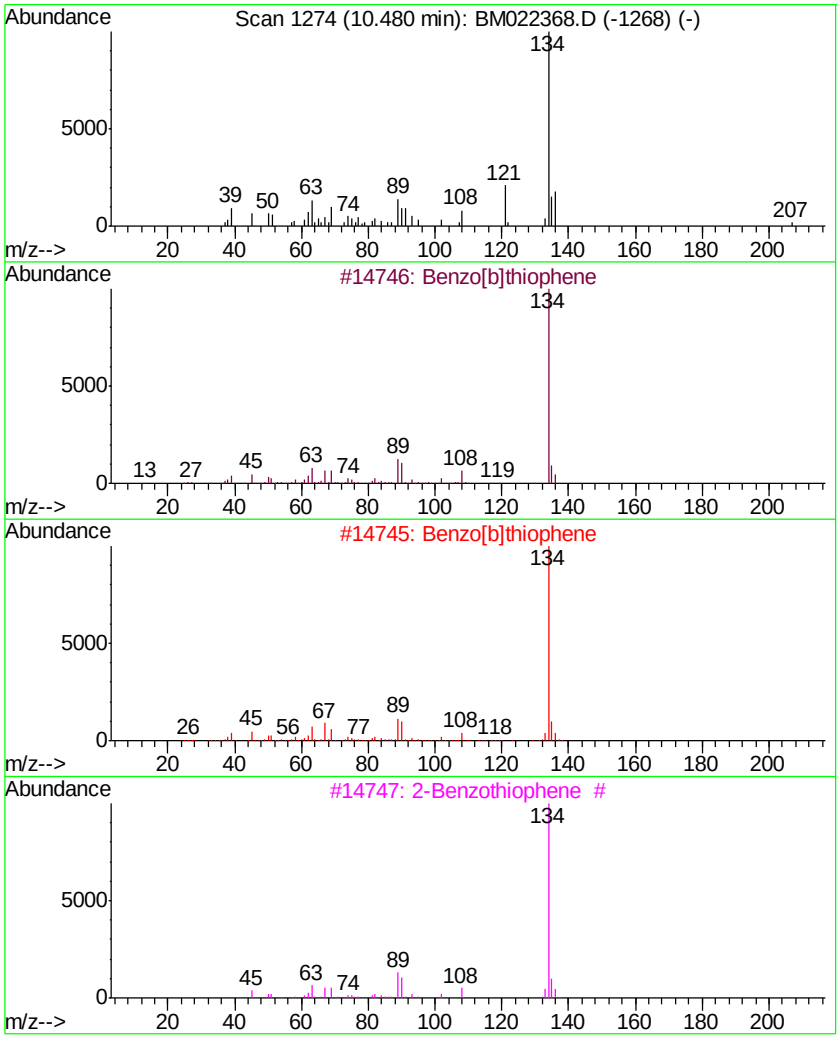
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

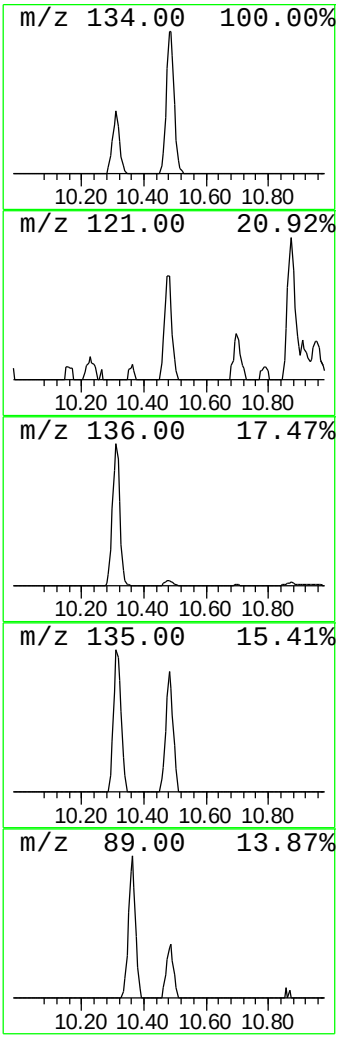
**********

Peak Number 3 Benzo[b]thiophene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.48 | 6.24 ng/ul | 100107 | Naphthalene-d8 | 10.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 93 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 87 |
| 3 | 2-Benzothiophene # | 134 | C8H6S | 000270-82-6 | 87 |
| 4 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 74 |
| 5 | Cyclopenta[b]thiapyran | 134 | C8H6S | 000271-17-0 | 72 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

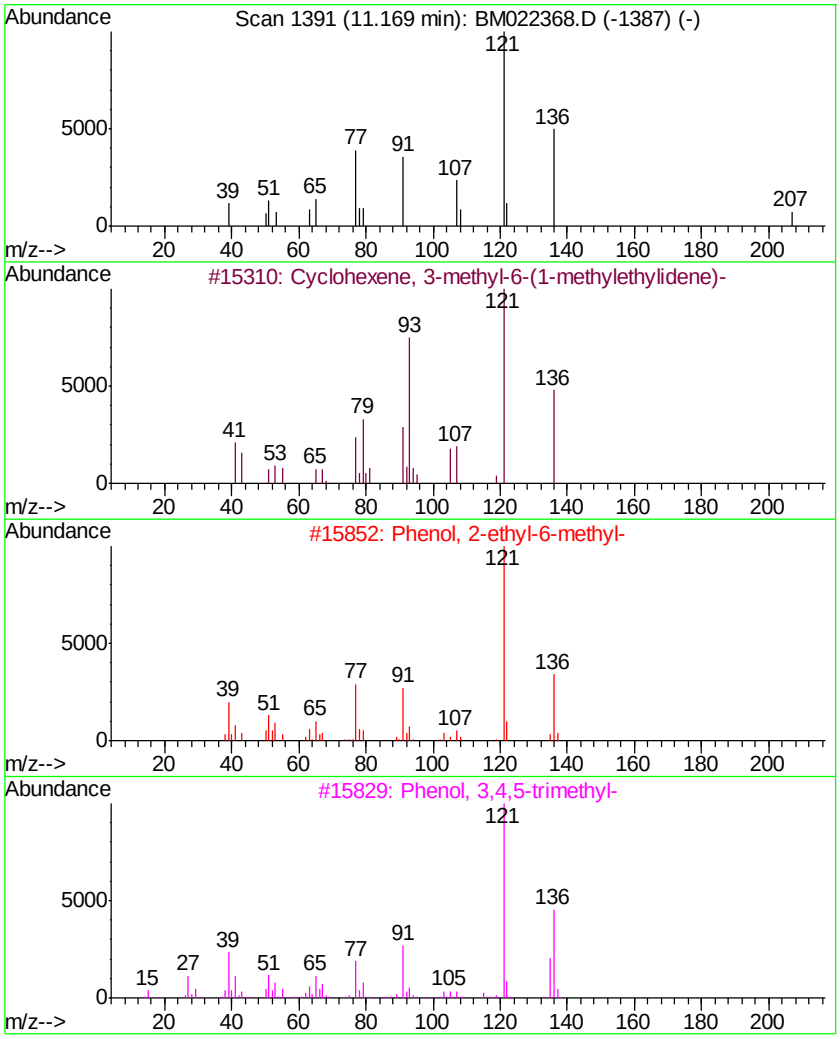
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

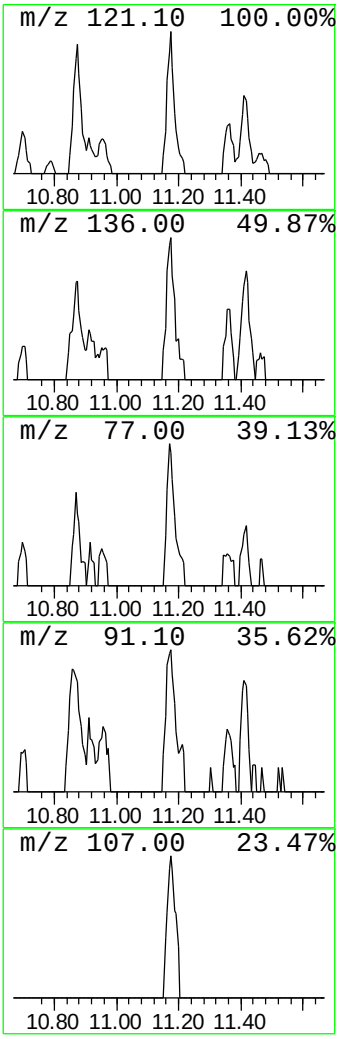
**********

Peak Number 4 Cyclohexene, 3-methyl-6-(1-... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.17 | 2.04 ng/ul | 32663 | Naphthalene-d8 | 10.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 3-methyl-6-(1-methy... | 136 | C10H16 | 000586-63-0 | 72 |
| 2 | Phenol, 2-ethyl-6-methyl- | 136 | C9H12O | 001687-64-5 | 72 |
| 3 | Phenol, 3,4,5-trimethyl- | 136 | C9H12O | 000527-54-8 | 59 |
| 4 | 1,5,5-Trimethyl-6-methylene-cycl... | 136 | C10H16 | 000514-95-4 | 56 |
| 5 | 3-Methylene-1,5,5-trimethylcyclo... | 136 | C10H16 | 016609-28-2 | 56 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

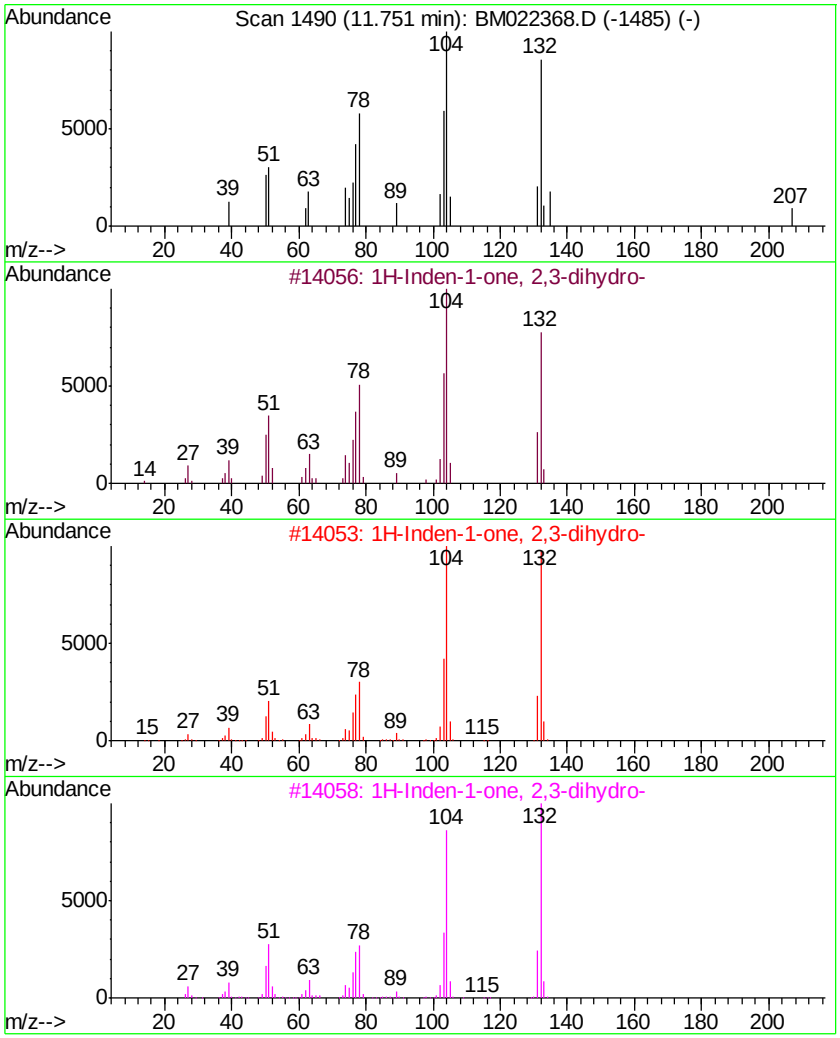
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

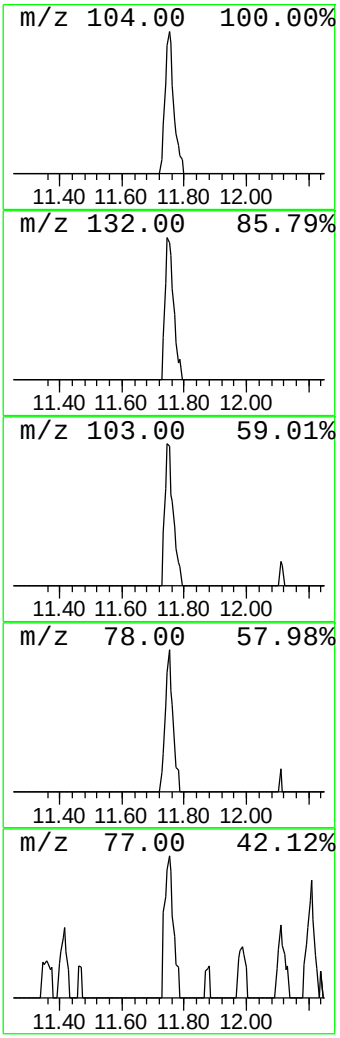
**********

Peak Number 5 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 2.67 ng/ul | 42793 | Naphthalene-d8 | 10.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 96 |
| 2 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 87 |
| 3 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 62 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 58 |
| 5 | Isoquinoline, 1,2,3,4-tetrahydro- | 133 | C9H11N | 000091-21-4 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

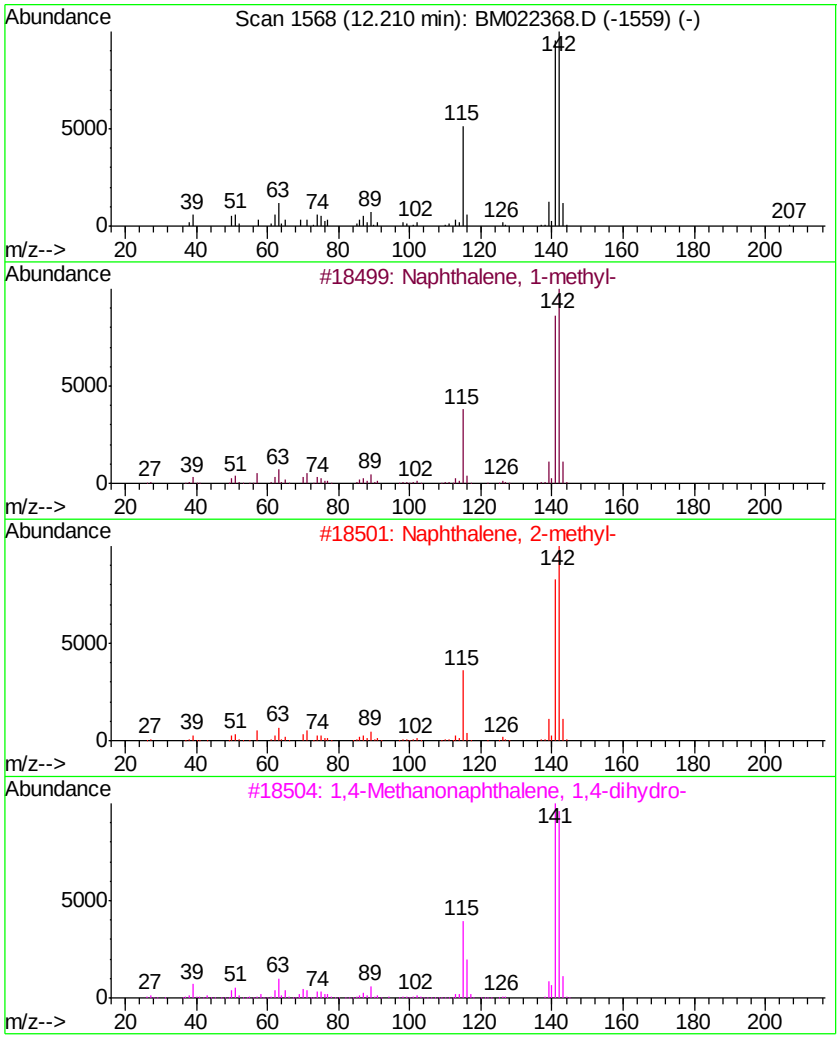
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

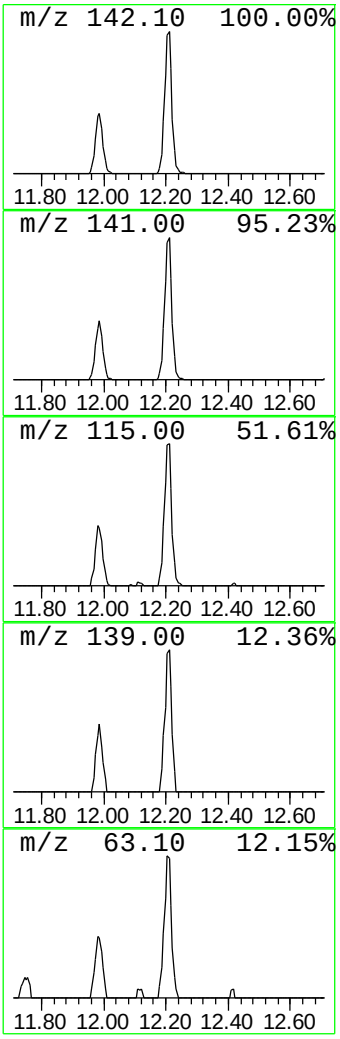
**********

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.21 | 17.31 ng/ul | 277529 | Naphthalene-d8 | 10.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 94 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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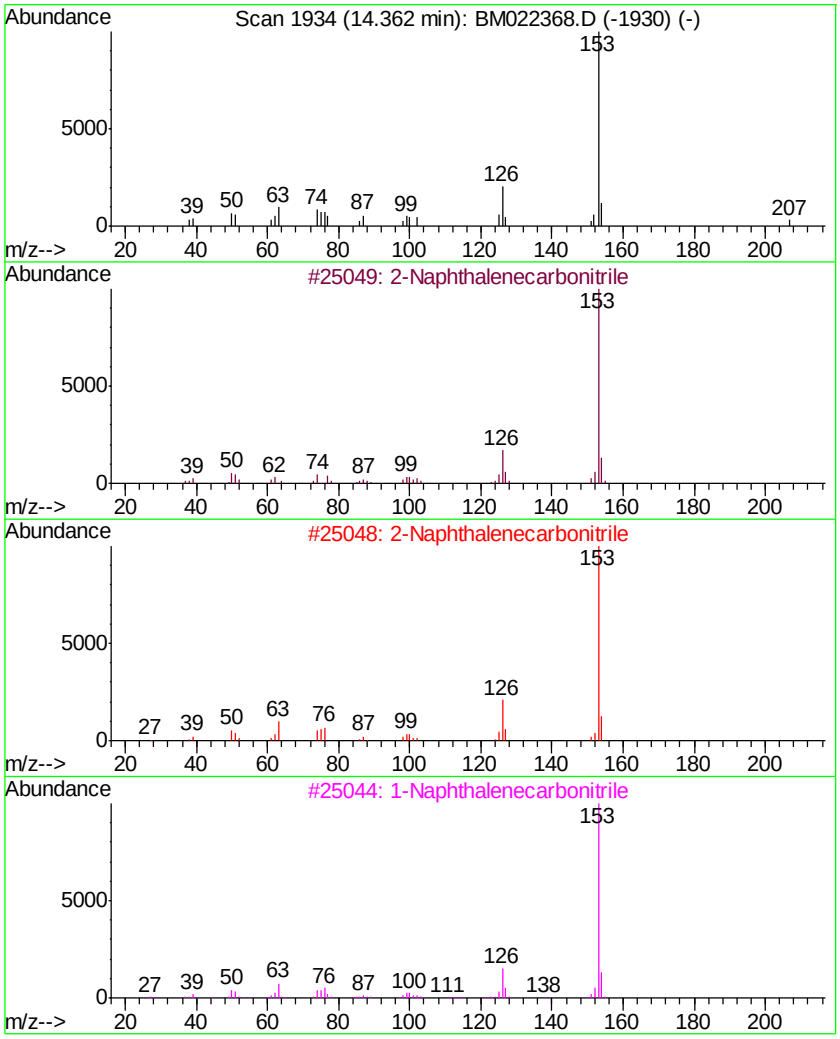
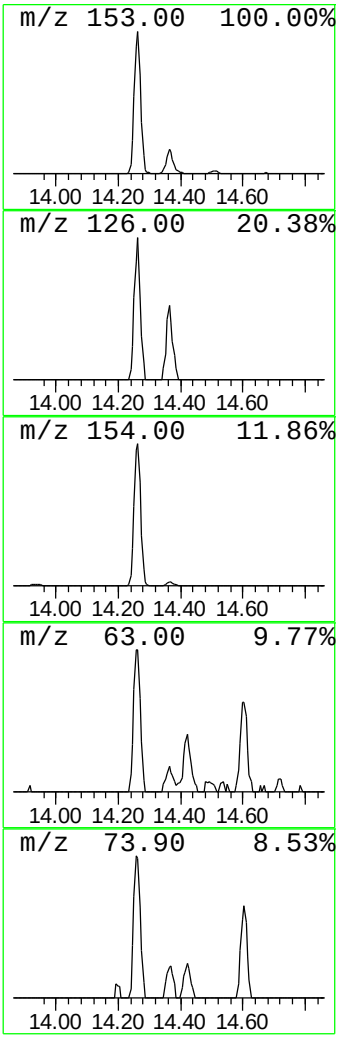
Peak Number 7 2-Naphthalenecarbonitrile Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.36 | 2.05 ng/ul | 46443 | Acenaphthene-d10 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Naphthalenecarbonitrile | 153 | C11H7N | 000613-46-7 | 91 |
| 2 | 2-Naphthalenecarbonitrile | 153 | C11H7N | 000613-46-7 | 91 |
| 3 | 1-Naphthalenecarbonitrile | 153 | C11H7N | 000086-53-3 | 91 |
| 4 | 1-Naphthalenecarbonitrile | 153 | C11H7N | 000086-53-3 | 91 |
| 5 | 1-Naphthalenecarbonitrile | 153 | C11H7N | 000086-53-3 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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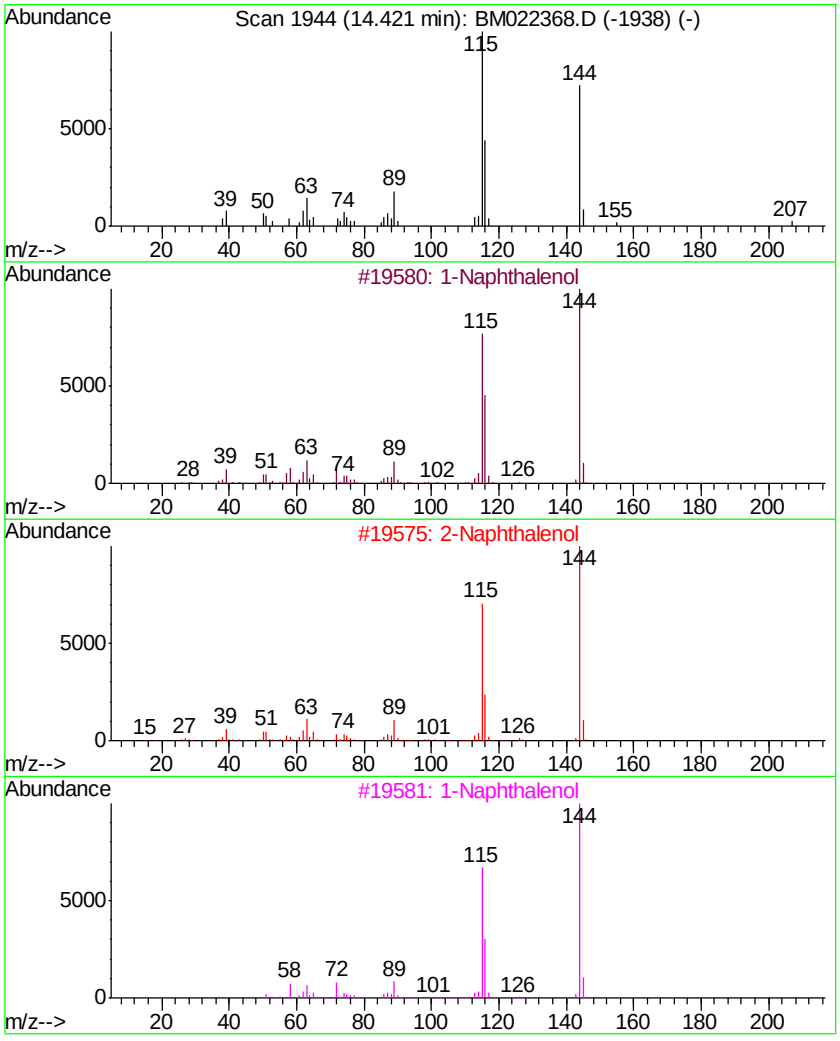
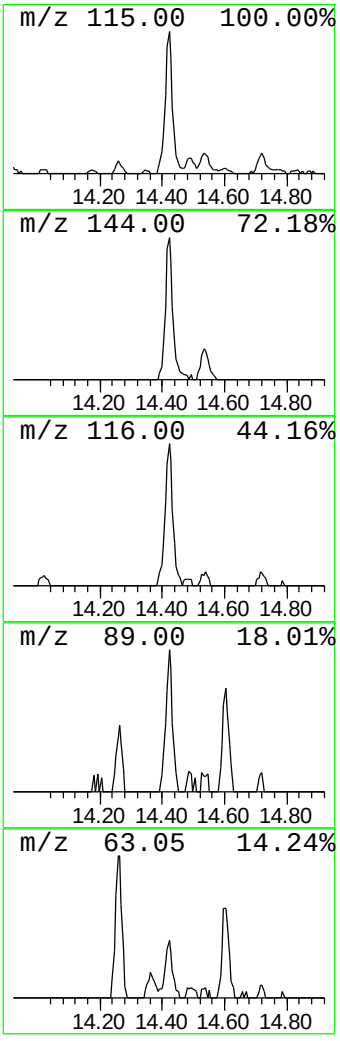
Peak Number 8 1-Naphthalenol Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.42 | 5.07 ng/ul | 114904 | Acenaphthene-d10 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenol | 144 | C10H8O | 000090-15-3 | 94 |
| 2 | 2-Naphthalenol | 144 | C10H8O | 000135-19-3 | 94 |
| 3 | 1-Naphthalenol | 144 | C10H8O | 000090-15-3 | 91 |
| 4 | 2-Naphthalenol | 144 | C10H8O | 000135-19-3 | 91 |
| 5 | 1-Naphthalenol | 144 | C10H8O | 000090-15-3 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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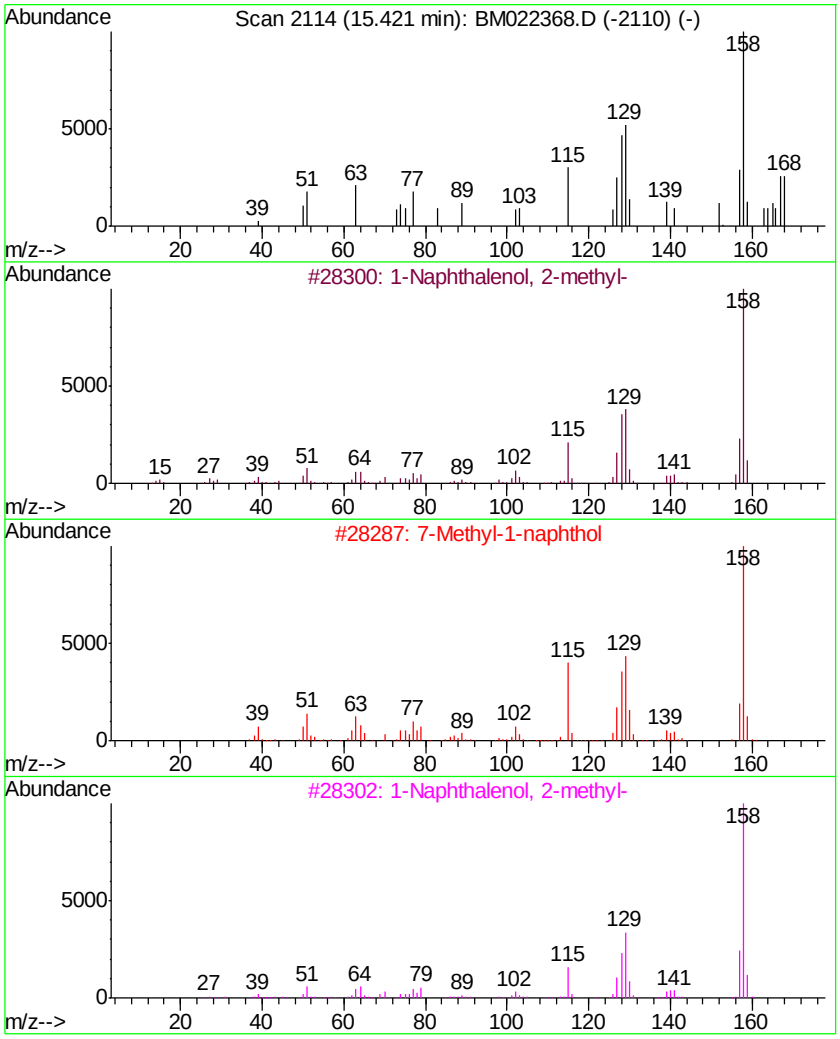
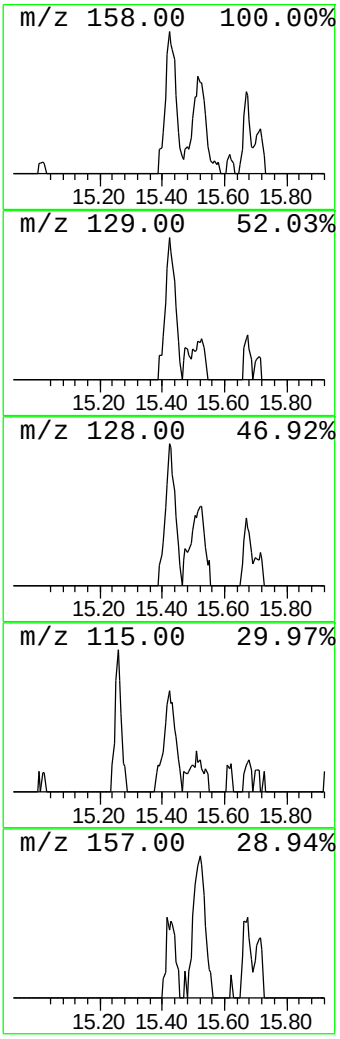
Peak Number 9 1-Naphthalenol, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.42 | 2.17 ng/ul | 49191 | Acenaphthene-d10 | 14.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenol, 2-methyl- | 158 | C11H10O | 007469-77-4 | 89 |
| 2 | 7-Methyl-1-naphthol | 158 | C11H10O | 006939-33-9 | 76 |
| 3 | 1-Naphthalenol, 2-methyl- | 158 | C11H10O | 007469-77-4 | 58 |
| 4 | 2-Naphthalenemethanol | 158 | C11H10O | 001592-38-7 | 58 |
| 5 | 1H-Pyrazole, 3-methyl-5-phenyl- | 158 | C10H10N2 | 003347-62-4 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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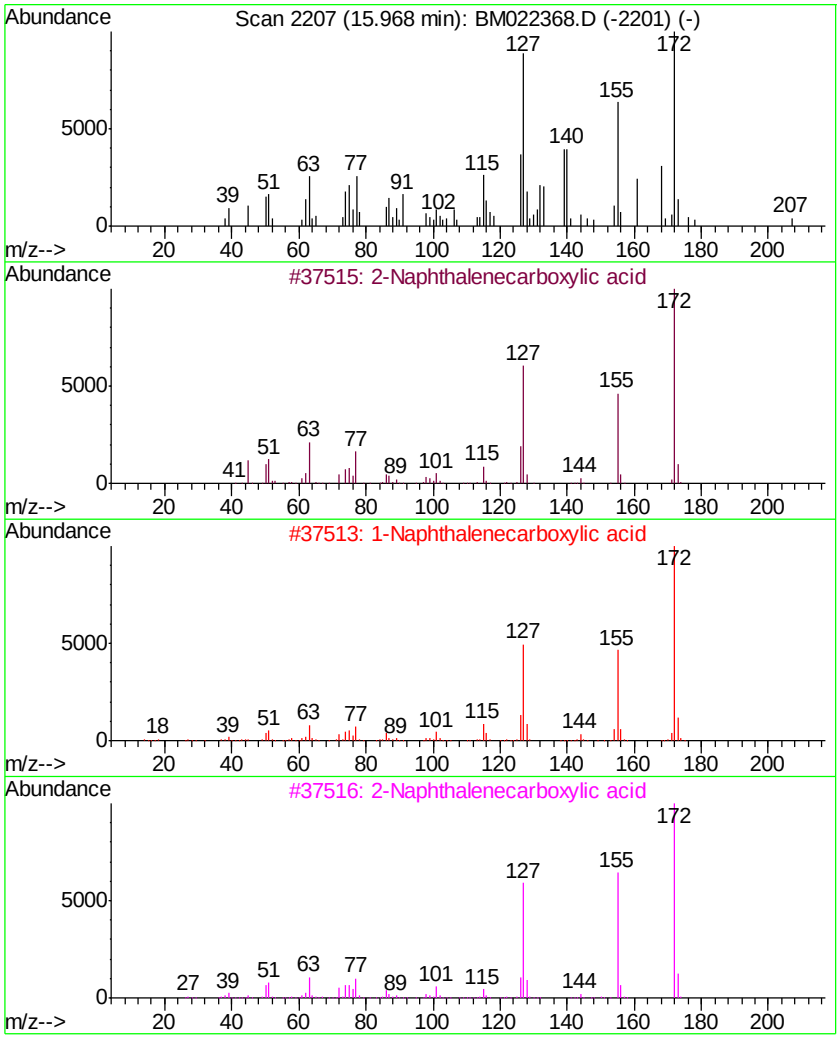
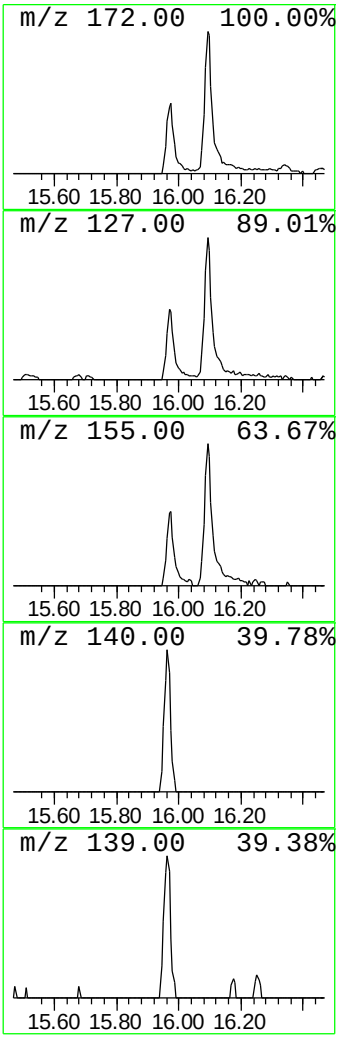
Peak Number 10 2-Naphthalenecarboxylic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.97 | 6.20 ng/ul | 189930 | Phenanthrene-d10 | 16.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 90 |
| 2 | 1-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000086-55-5 | 50 |
| 3 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 50 |
| 4 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 50 |
| 5 | 1-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000086-55-5 | 50 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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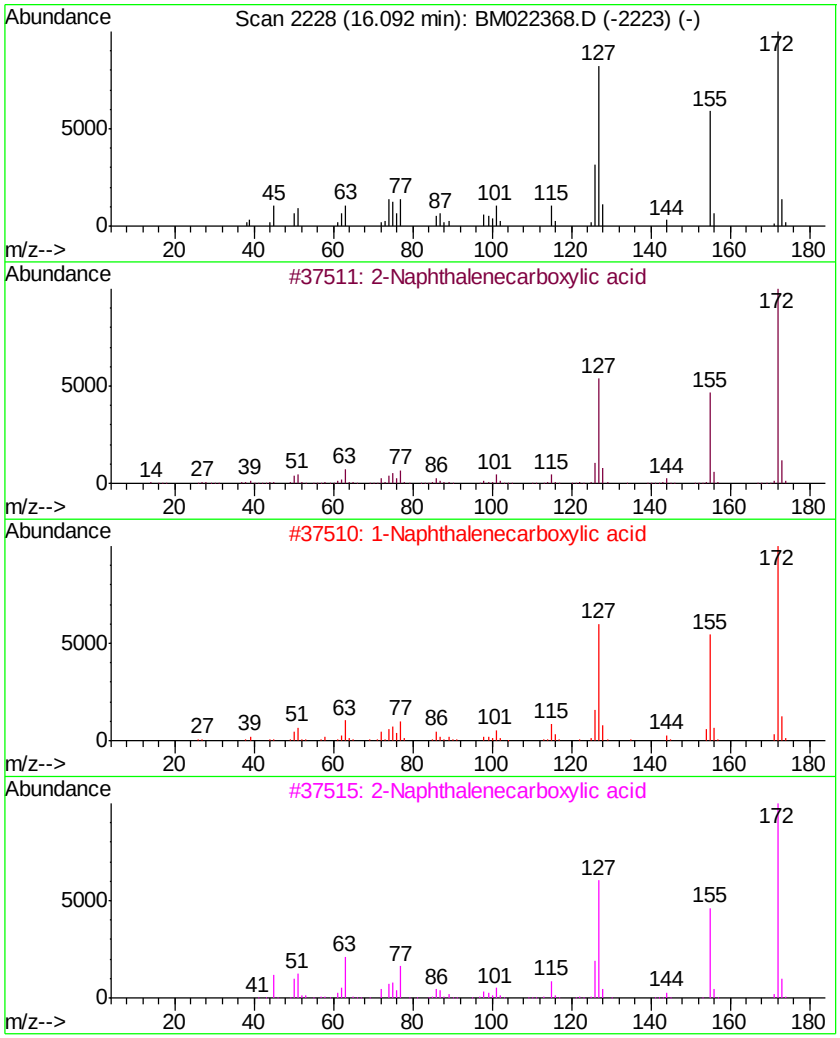
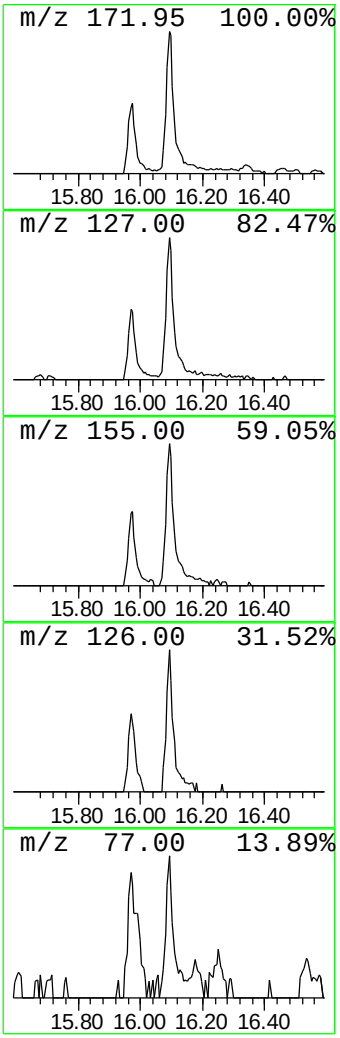
Peak Number 11 1-Naphthalenecarboxylic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.09 | 5.30 ng/ul | 162166 | Phenanthrene-d10 | 16.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 94 |
| 2 | 1-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000086-55-5 | 93 |
| 3 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 91 |
| 4 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 90 |
| 5 | 2-Naphthalenecarboxylic acid | 172 | C11H8O2 | 000093-09-4 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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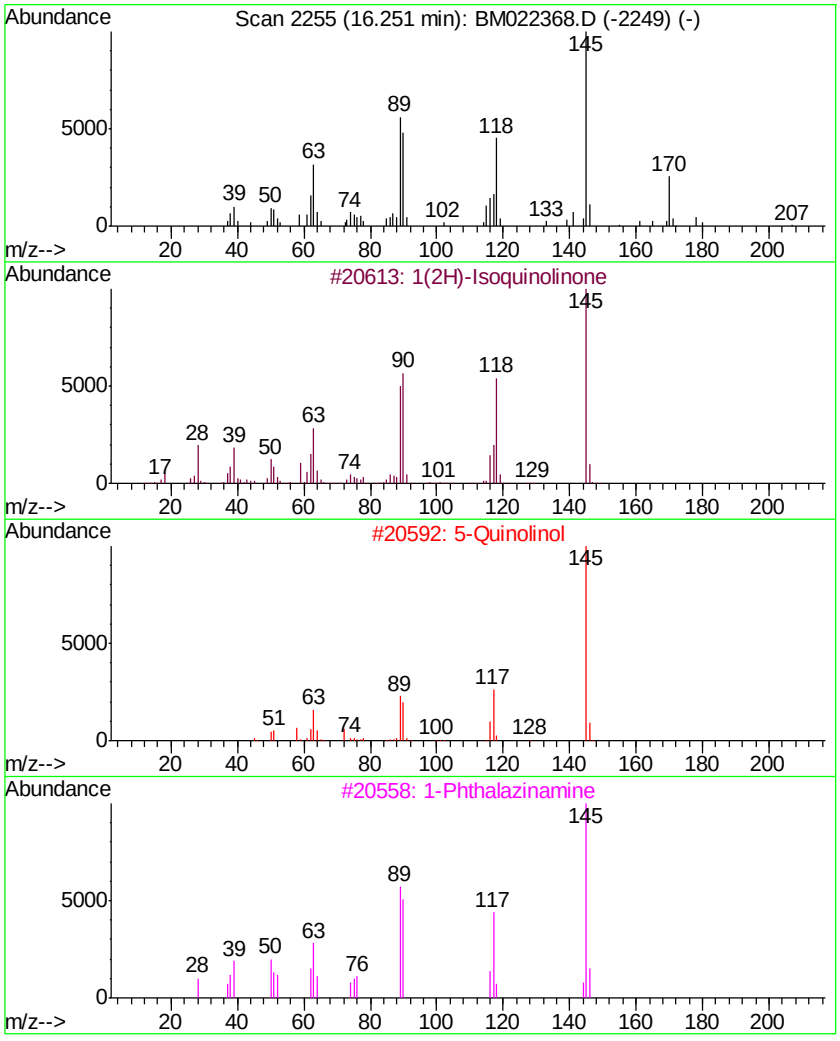
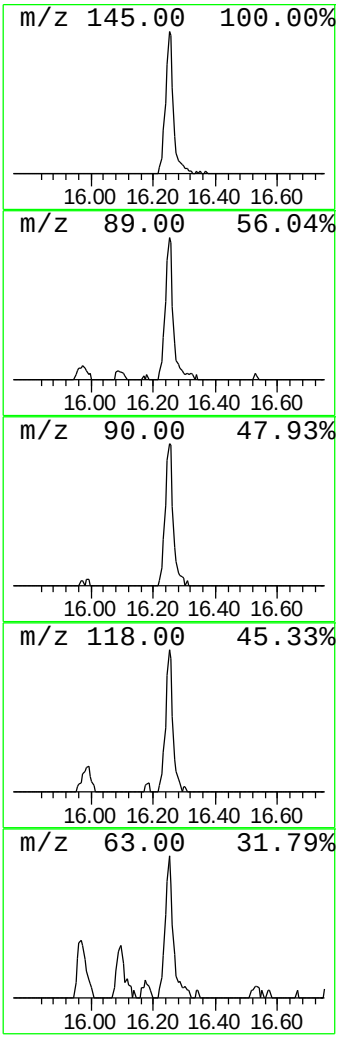
Peak Number 12 1(2H)-Isoquinolinone Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.25 | 6.06 ng/ul | 185606 | Phenanthrene-d10 | 16.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Isoquinolinone | 145 | C9H7NO | 000491-30-5 | 97 |
| 2 | 5-Quinolinol | 145 | C9H7NO | 000578-67-6 | 68 |
| 3 | 1-Phthalazinamine | 145 | C8H7N3 | 019064-69-8 | 64 |
| 4 | 8-Hydroxyquinoline | 145 | C9H7NO | 000148-24-3 | 64 |
| 5 | 4-Isoquinolinol | 145 | C9H7NO | 003336-49-0 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

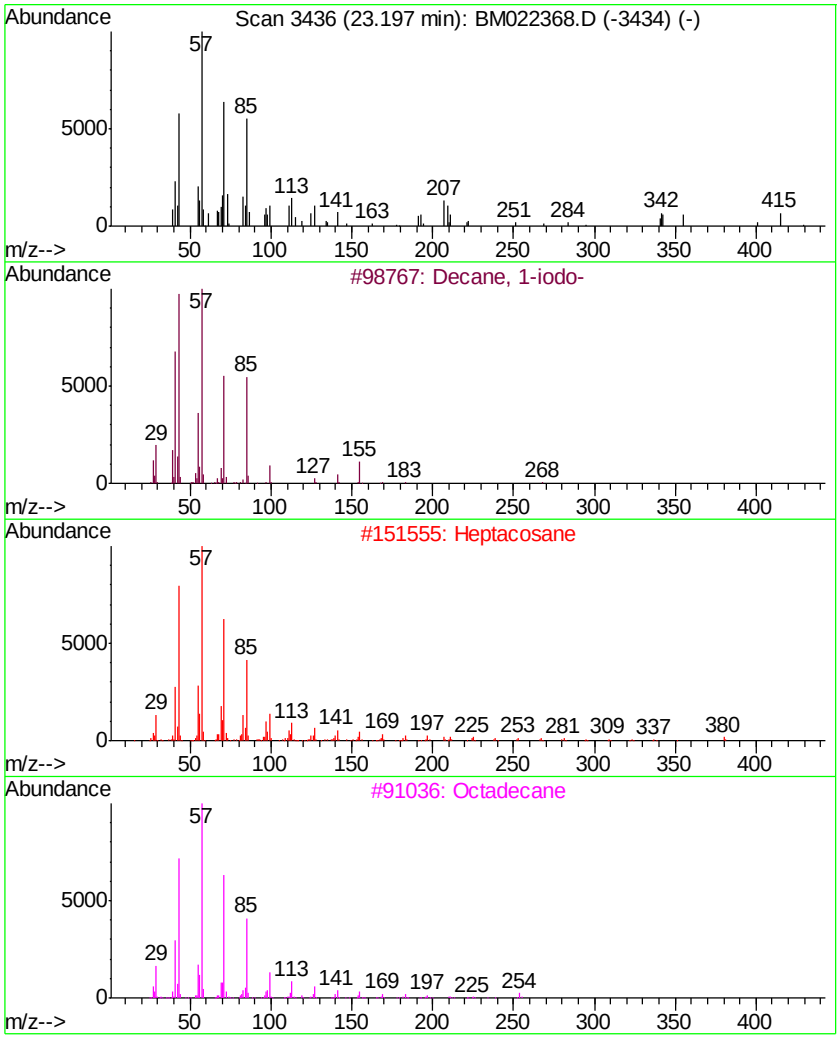
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

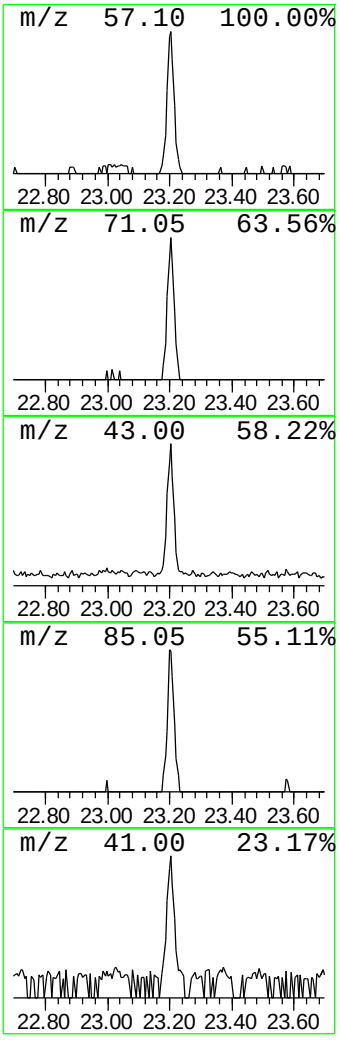
**********

Peak Number 13 Decane, 1-iodo- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.20 | 3.13 ng/ul | 79551 | Perylene-d12 | 23.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 1-iodo- | 268 | C10H21I | 002050-77-3 | 68 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 68 |
| 3 | Octadecane | 254 | C18H38 | 000593-45-3 | 64 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 64 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082619\
Data File : BM022368.D
Acq On : 27 Aug 2019 15:19
Operator : HP/JU
Sample : K4373-11DL2 40X
Misc :
ALS Vial : 46 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AB2DL2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA 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 |
| Benzene, 2-propenyl- | 7.89 | 16.7 | ng/ul | 148094 | 1 | 7.54 | 177534 | 20.0 |
| Benzo[b]thiophene | 10.48 | 6.2 | ng/ul | 100107 | 2 | 10.31 | 320621 | 20.0 |
| Cyclohexene, 3-me... | 11.17 | 2.0 | ng/ul | 32663 | 2 | 10.31 | 320621 | 20.0 |
| 1H-Inden-1-one, 2... | 11.75 | 2.7 | ng/ul | 42793 | 2 | 10.31 | 320621 | 20.0 |
| Naphthalene, 1-me... | 12.21 | 17.3 | ng/ul | 277529 | 2 | 10.31 | 320621 | 20.0 |
| 2-Naphthalenecarb... | 14.36 | 2.0 | ng/ul | 46443 | 3 | 14.19 | 453155 | 20.0 |
| 1-Naphthalenol | 14.42 | 5.1 | ng/ul | 114904 | 3 | 14.19 | 453155 | 20.0 |
| 1-Naphthalenol, 2... | 15.42 | 2.2 | ng/ul | 49191 | 3 | 14.19 | 453155 | 20.0 |
| 2-Naphthalenecarb... | 15.97 | 6.2 | ng/ul | 189930 | 4 | 16.96 | 612244 | 20.0 |
| 1-Naphthalenecarb... | 16.09 | 5.3 | ng/ul | 162166 | 4 | 16.96 | 612244 | 20.0 |
| 1(2H)-Isoquinolinone | 16.25 | 6.1 | ng/ul | 185606 | 4 | 16.96 | 612244 | 20.0 |
| Decane, 1-iodo- | 23.20 | 3.1 | ng/ul | 79551 | 6 | 23.37 | 508388 | 20.0 |