LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

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\SFAM-EPA-BM082821.M
Title : SVOA CALIBRATION

Signal : TIC: BM031971.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.528 | 72 | 75 | 91 | rBV | 88089 | 177084 | 3.02% | 0.280% |
| 2 | 6.704 | 610 | 615 | 625 | rVB | 76534 | 126084 | 2.15% | 0.199% |
| 3 | 6.863 | 636 | 642 | 654 | rBV | 290981 | 487410 | 8.32% | 0.771% |
| 4 | 7.045 | 667 | 673 | 684 | rBV | 316430 | 499599 | 8.53% | 0.791% |
| 5 | 7.504 | 744 | 751 | 760 | rBV | 354810 | 571713 | 9.76% | 0.905% |
| 6 | 7.869 | 806 | 813 | 820 | rBV | 316513 | 516826 | 8.82% | 0.818% |
| 7 | 8.222 | 866 | 873 | 884 | rBV | 253059 | 406792 | 6.94% | 0.644% |
| 8 | 8.657 | 941 | 947 | 964 | rVB | 454084 | 744618 | 12.71% | 1.178% |
| 9 | 9.369 | 1060 | 1068 | 1076 | rBV | 366103 | 594740 | 10.15% | 0.941% |
| 10 | 9.522 | 1088 | 1094 | 1102 | rVB2 | 39617 | 66975 | 1.14% | 0.106% |
| 11 | 9.669 | 1110 | 1119 | 1130 | rBV | 96672 | 181638 | 3.10% | 0.287% |
| 12 | 9.898 | 1151 | 1158 | 1169 | rBV | 529042 | 896839 | 15.30% | 1.419% |
| 13 | 10.069 | 1182 | 1187 | 1202 | rBV | 67919 | 139912 | 2.39% | 0.221% |
| 14 | 10.263 | 1213 | 1220 | 1227 | rBV | 544683 | 873935 | 14.91% | 1.383% |
| 15 | 10.422 | 1235 | 1247 | 1262 | rBV | 495128 | 920201 | 15.70% | 1.456% |
| 16 | 11.369 | 1401 | 1408 | 1414 | rBV2 | 34188 | 60288 | 1.03% | 0.095% |
| 17 | 11.675 | 1451 | 1460 | 1467 | rBV3 | 48530 | 101716 | 1.74% | 0.161% |
| 18 | 11.827 | 1479 | 1486 | 1495 | rVB2 | 92255 | 170533 | 2.91% | 0.270% |
| 19 | 11.933 | 1495 | 1504 | 1511 | rVB | 142420 | 235164 | 4.01% | 0.372% |
| 20 | 12.080 | 1519 | 1529 | 1532 | rBV4 | 25083 | 60531 | 1.03% | 0.096% |
| 21 | 12.157 | 1532 | 1542 | 1553 | rVB | 964059 | 1604351 | 27.38% | 2.539% |
| 22 | 13.192 | 1709 | 1718 | 1725 | rVB3 | 65033 | 148864 | 2.54% | 0.236% |
| 23 | 13.304 | 1729 | 1737 | 1747 | rBV3 | 129105 | 355688 | 6.07% | 0.563% |
| 24 | 13.463 | 1755 | 1764 | 1769 | rBV | 313186 | 564988 | 9.64% | 0.894% |
| 25 | 13.516 | 1769 | 1773 | 1777 | rVV | 140023 | 212496 | 3.63% | 0.336% |
| 26 | 13.574 | 1777 | 1783 | 1792 | rVB | 1313962 | 1812912 | 30.94% | 2.869% |
| 27 | 13.698 | 1799 | 1804 | 1808 | rBV | 147422 | 230921 | 3.94% | 0.365% |
| 28 | 13.733 | 1808 | 1810 | 1817 | rVB | 74052 | 85603 | 1.46% | 0.135% |
| 29 | 13.833 | 1817 | 1827 | 1841 | rBV | 1305705 | 2223058 | 37.93% | 3.517% |
| 30 | 14.145 | 1869 | 1880 | 1886 | rBV | 946619 | 1541473 | 26.30% | 2.439% |
| 31 | 14.216 | 1886 | 1892 | 1900 | rVV | 4104715 | 5860230 | 100.00% | 9.273% |
| 32 | 14.363 | 1910 | 1917 | 1919 | rBV2 | 40080 | 75216 | 1.28% | 0.119% |
| 33 | 14.398 | 1919 | 1923 | 1928 | rVV2 | 71598 | 149196 | 2.55% | 0.236% |
| 34 | 14.457 | 1928 | 1933 | 1939 | rVB3 | 92203 | 168887 | 2.88% | 0.267% |
| 35 | 14.551 | 1939 | 1949 | 1957 | rBV | 1564434 | 2215347 | 37.80% | 3.505% |
| 36 | 14.633 | 1957 | 1963 | 1967 | rBV | 46106 | 71420 | 1.22% | 0.113% |

LSC Area Percent Report

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Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

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\SFAM-EPA-BM082821.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 14.774 | 1979 | 1987 | 1992 | rBV2 | 68237 | 143944 | 2.46% | 0.228% |
| 38 | 14.827 | 1992 | 1996 | 2001 | rVB2 | 38172 | 52817 | 0.90% | 0.084% |
| 39 | 14.945 | 2008 | 2016 | 2019 | rBV2 | 41203 | 88063 | 1.50% | 0.139% |
| 40 | 15.151 | 2045 | 2051 | 2056 | rBV | 1967395 | 2690405 | 45.91% | 4.257% |
| 41 | 15.204 | 2056 | 2060 | 2066 | rVB | 2101119 | 2957265 | 50.46% | 4.679% |
| 42 | 15.298 | 2071 | 2076 | 2078 | rBV2 | 118460 | 160159 | 2.73% | 0.253% |
| 43 | 15.327 | 2078 | 2081 | 2084 | rVV2 | 176472 | 245482 | 4.19% | 0.388% |
| 44 | 15.368 | 2084 | 2088 | 2093 | rVV | 164429 | 263862 | 4.50% | 0.418% |
| 45 | 15.415 | 2093 | 2096 | 2099 | rVV3 | 72287 | 104534 | 1.78% | 0.165% |
| 46 | 15.457 | 2099 | 2103 | 2106 | rVV | 87509 | 124998 | 2.13% | 0.198% |
| 47 | 15.504 | 2106 | 2111 | 2117 | rVB | 149507 | 230779 | 3.94% | 0.365% |
| 48 | 15.615 | 2122 | 2130 | 2132 | rBV4 | 37366 | 67621 | 1.15% | 0.107% |
| 49 | 15.651 | 2132 | 2136 | 2144 | rVB2 | 176066 | 355592 | 6.07% | 0.563% |
| 50 | 15.721 | 2144 | 2148 | 2157 | rVB2 | 55751 | 122343 | 2.09% | 0.194% |
| 51 | 15.886 | 2171 | 2176 | 2190 | rVB2 | 414027 | 707080 | 12.07% | 1.119% |
| 52 | 16.004 | 2190 | 2196 | 2203 | rBV | 139240 | 218749 | 3.73% | 0.346% |
| 53 | 16.215 | 2220 | 2232 | 2236 | rBV | 88593 | 234328 | 4.00% | 0.371% |
| 54 | 16.262 | 2236 | 2240 | 2251 | rVB3 | 73061 | 144911 | 2.47% | 0.229% |
| 55 | 16.362 | 2252 | 2257 | 2262 | rVB | 46762 | 66496 | 1.13% | 0.105% |
| 56 | 16.539 | 2281 | 2287 | 2298 | rVB3 | 79217 | 182956 | 3.12% | 0.289% |
| 57 | 16.651 | 2300 | 2306 | 2310 | rVV5 | 24709 | 55007 | 0.94% | 0.087% |
| 58 | 16.721 | 2310 | 2318 | 2326 | rVB | 250198 | 389507 | 6.65% | 0.616% |
| 59 | 16.833 | 2331 | 2337 | 2341 | rBV2 | 77413 | 131361 | 2.24% | 0.208% |
| 60 | 16.904 | 2341 | 2349 | 2352 | rVV | 1254197 | 1759741 | 30.03% | 2.784% |
| 61 | 16.945 | 2352 | 2356 | 2361 | rVV | 2357113 | 3328583 | 56.80% | 5.267% |
| 62 | 17.004 | 2361 | 2366 | 2370 | rVV | 2400590 | 3341087 | 57.01% | 5.287% |
| 63 | 17.039 | 2370 | 2372 | 2379 | rVB | 290724 | 316295 | 5.40% | 0.500% |
| 64 | 17.109 | 2379 | 2384 | 2388 | rBV2 | 55408 | 80530 | 1.37% | 0.127% |
| 65 | 17.315 | 2416 | 2419 | 2424 | rVV | 97476 | 144610 | 2.47% | 0.229% |
| 66 | 17.427 | 2432 | 2438 | 2444 | rVV6 | 49629 | 111383 | 1.90% | 0.176% |
| 67 | 17.486 | 2444 | 2448 | 2454 | rVB2 | 38216 | 60701 | 1.04% | 0.096% |
| 68 | 17.574 | 2460 | 2463 | 2467 | rVB2 | 36904 | 45344 | 0.77% | 0.072% |
| 69 | 17.627 | 2468 | 2472 | 2476 | rBV3 | 32427 | 47940 | 0.82% | 0.076% |
| 70 | 17.780 | 2495 | 2498 | 2501 | rVB | 69925 | 87202 | 1.49% | 0.138% |
| 71 | 17.827 | 2501 | 2506 | 2515 | rVB2 | 254829 | 392862 | 6.70% | 0.622% |
| 72 | 17.915 | 2516 | 2521 | 2525 | rBV | 60710 | 88413 | 1.51% | 0.140% |
| 73 | 17.974 | 2525 | 2531 | 2536 | rBV2 | 273994 | 436065 | 7.44% | 0.690% |
| 74 | 18.092 | 2544 | 2551 | 2554 | rBV2 | 107874 | 223003 | 3.81% | 0.353% |
| 75 | 18.133 | 2554 | 2558 | 2562 | rVV | 149804 | 223594 | 3.82% | 0.354% |
| 76 | 18.180 | 2562 | 2566 | 2570 | rVV4 | 59619 | 104457 | 1.78% | 0.165% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

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\SFAM-EPA-BM082821.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 18.233 | 2570 | 2575 | 2581 | rVV3 | 143699 | 263984 | 4.50% | 0.418% |
| 78 | 18.292 | 2581 | 2585 | 2589 | rVV2 | 88411 | 128342 | 2.19% | 0.203% |
| 79 | 18.333 | 2589 | 2592 | 2596 | rVV | 113198 | 152707 | 2.61% | 0.242% |
| 80 | 18.627 | 2637 | 2642 | 2645 | rBV | 45290 | 62816 | 1.07% | 0.099% |
| 81 | 18.703 | 2645 | 2655 | 2663 | rVB10 | 31000 | 119033 | 2.03% | 0.188% |
| 82 | 18.933 | 2688 | 2694 | 2696 | rBV6 | 50528 | 90405 | 1.54% | 0.143% |
| 83 | 18.968 | 2696 | 2700 | 2707 | rVB | 522376 | 731310 | 12.48% | 1.157% |
| 84 | 19.033 | 2707 | 2711 | 2715 | rBV | 136514 | 183269 | 3.13% | 0.290% |
| 85 | 19.074 | 2715 | 2718 | 2722 | rVB | 35660 | 47328 | 0.81% | 0.075% |
| 86 | 19.192 | 2733 | 2738 | 2745 | rBV6 | 53776 | 115685 | 1.97% | 0.183% |
| 87 | 19.309 | 2751 | 2758 | 2767 | rBV | 3037913 | 4410791 | 75.27% | 6.979% |
| 88 | 19.727 | 2824 | 2829 | 2837 | rBV2 | 337982 | 712202 | 12.15% | 1.127% |
| 89 | 19.803 | 2837 | 2842 | 2847 | rVB | 237439 | 314504 | 5.37% | 0.498% |
| 90 | 19.903 | 2855 | 2859 | 2863 | rBV | 249826 | 324032 | 5.53% | 0.513% |
| 91 | 20.415 | 2942 | 2946 | 2948 | rBV | 140305 | 193444 | 3.30% | 0.306% |
| 92 | 20.445 | 2948 | 2951 | 2960 | rVB2 | 484052 | 754367 | 12.87% | 1.194% |
| 93 | 20.768 | 3002 | 3006 | 3008 | rBV | 72637 | 92447 | 1.58% | 0.146% |
| 94 | 20.845 | 3015 | 3019 | 3026 | rVB | 125474 | 172588 | 2.95% | 0.273% |
| 95 | 21.109 | 3059 | 3064 | 3069 | rBV | 1819156 | 2201781 | 37.57% | 3.484% |
| 96 | 21.427 | 3115 | 3118 | 3123 | rBV | 78807 | 86117 | 1.47% | 0.136% |
| 97 | 21.586 | 3141 | 3145 | 3152 | rBV | 209995 | 287550 | 4.91% | 0.455% |
| 98 | 23.115 | 3398 | 3405 | 3419 | rVB | 2135265 | 3922018 | 66.93% | 6.206% |
| 99 | 23.250 | 3421 | 3428 | 3437 | rVB2 | 1061488 | 1949143 | 33.26% | 3.084% |
| 100 | 23.750 | 3510 | 3513 | 3519 | rVB2 | 134508 | 200851 | 3.43% | 0.318% |

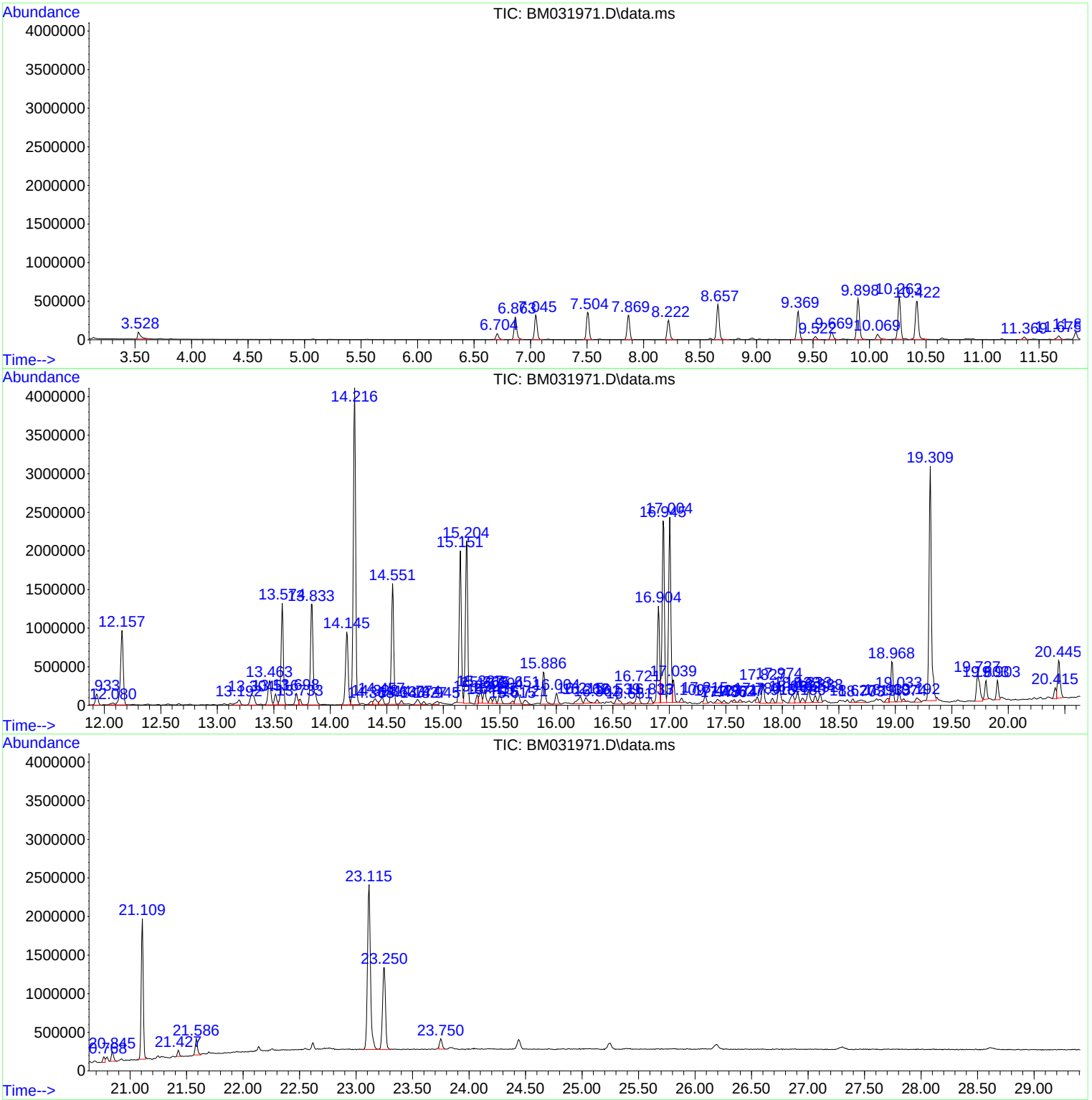
Sum of corrected areas: 63200031

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

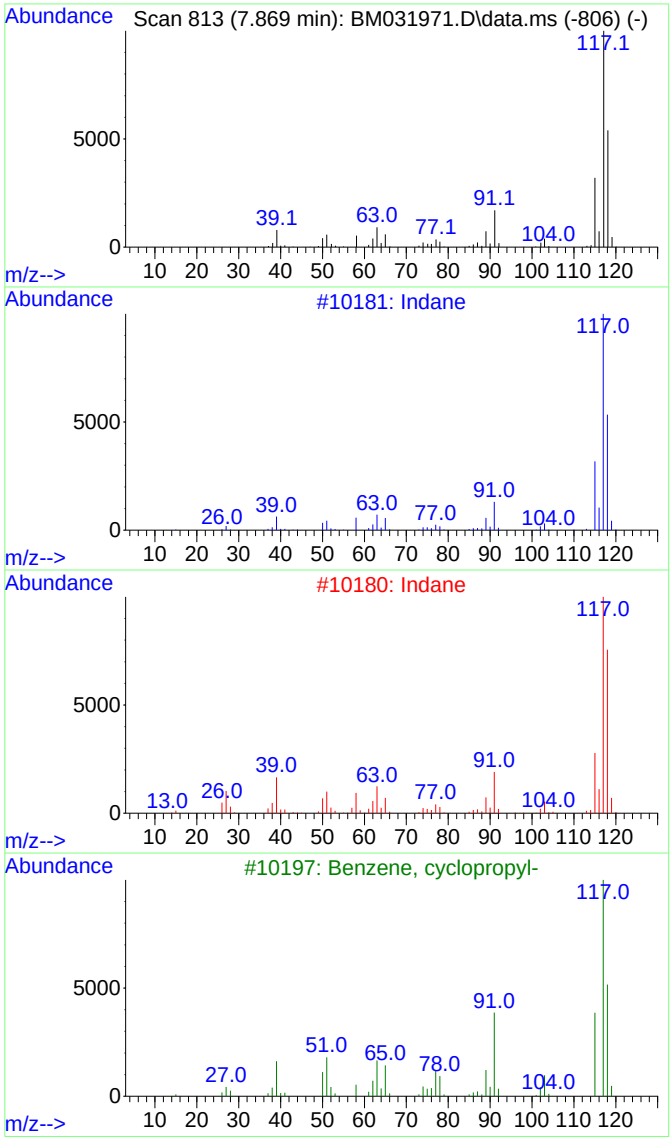
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

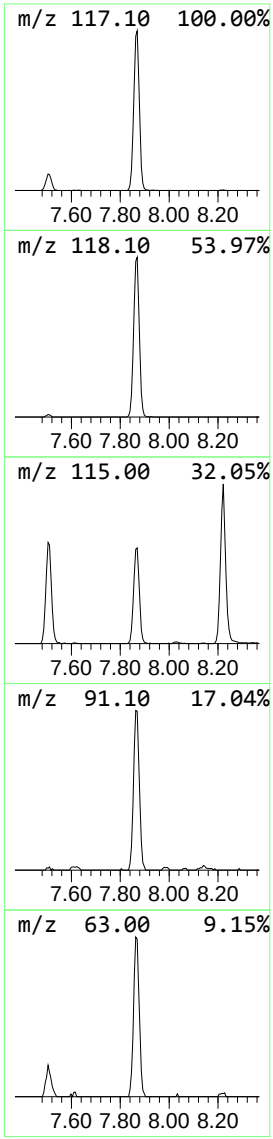
**********

Peak Number 1 Indane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.869 | 18.08 ng/ul | 516826 | 1,4-Dichlorobenzene-d4 | 7.510 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 91 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 90 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 81 |
| 4 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 5 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 76 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

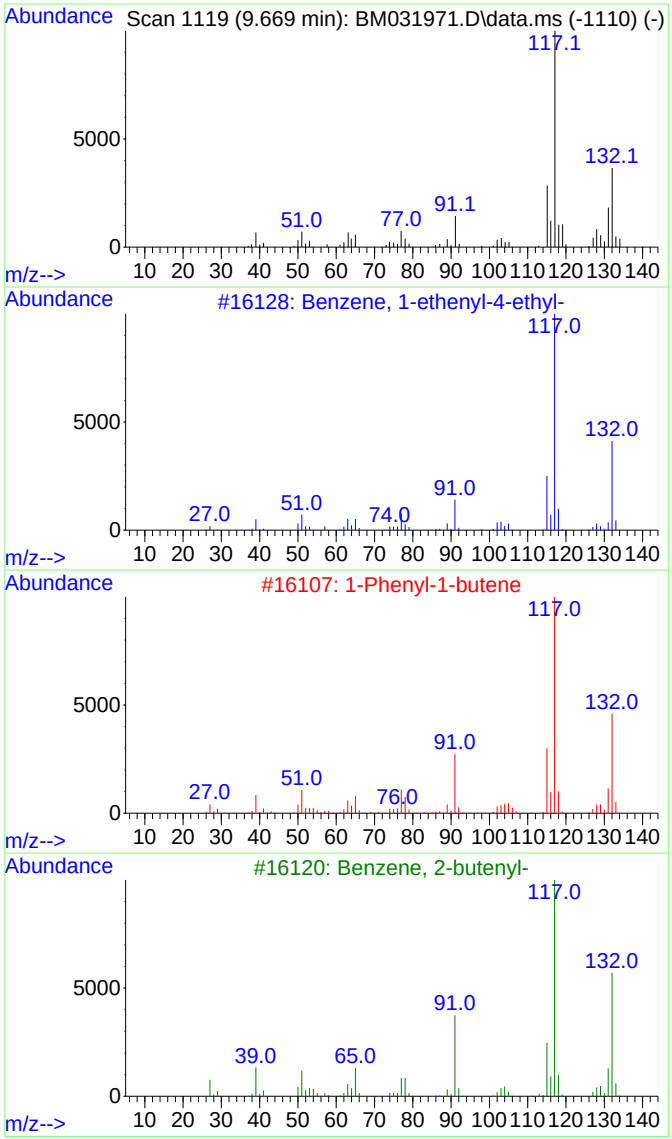
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

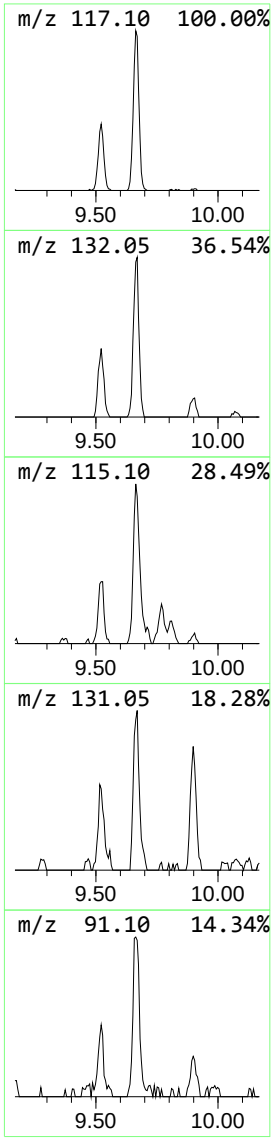
**********

Peak Number 2 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.669 | 4.16 ng/ul | 181638 | Naphthalene-d8 | 10.263 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 94 |
| 2 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 90 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 90 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 5 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

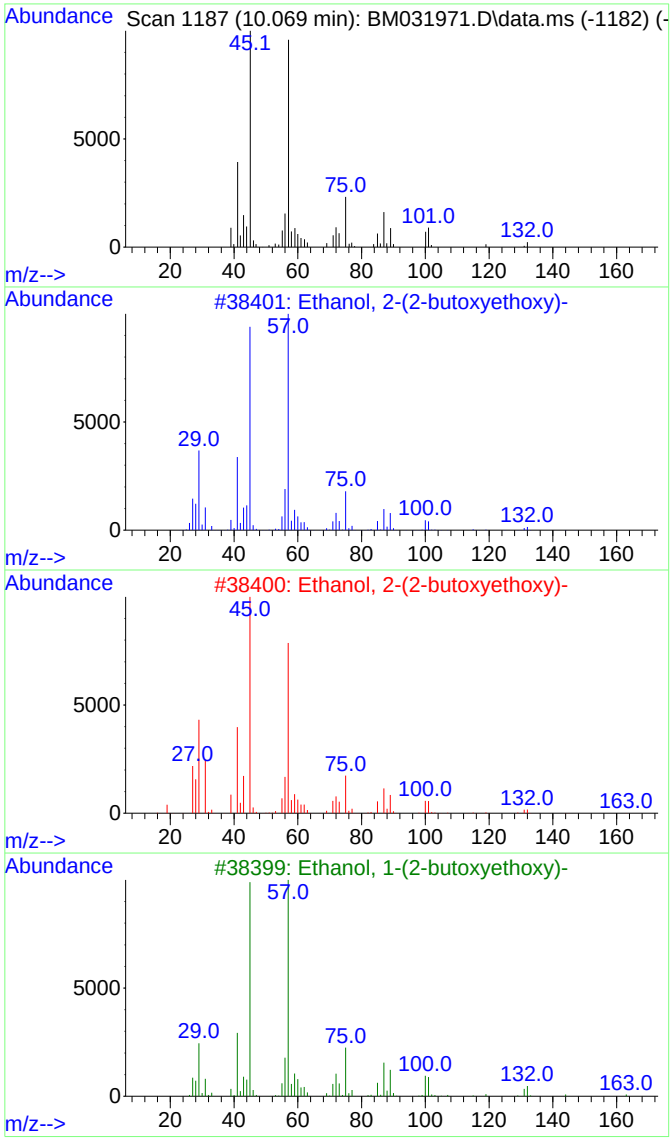
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

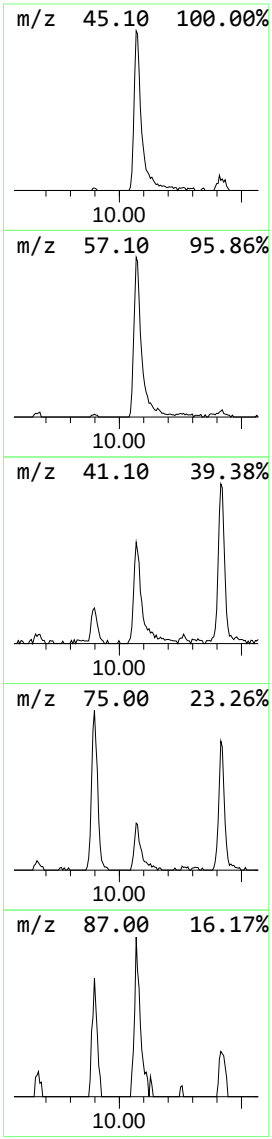
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.069 | 3.20 ng/ul | 139912 | Naphthalene-d8 | 10.263 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(2-butoxyethoxy)- | 162 | C8H18O3 | 000112-34-5 | 90 |
| 2 | Ethanol, 2-(2-butoxyethoxy)- | 162 | C8H18O3 | 000112-34-5 | 90 |
| 3 | Ethanol, 1-(2-butoxyethoxy)- | 162 | C8H18O3 | 054446-78-5 | 83 |
| 4 | Ethanol, 2-(2-butoxyethoxy)- | 162 | C8H18O3 | 000112-34-5 | 83 |
| 5 | Ethanol, 1-(2-butoxyethoxy)- | 162 | C8H18O3 | 054446-78-5 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

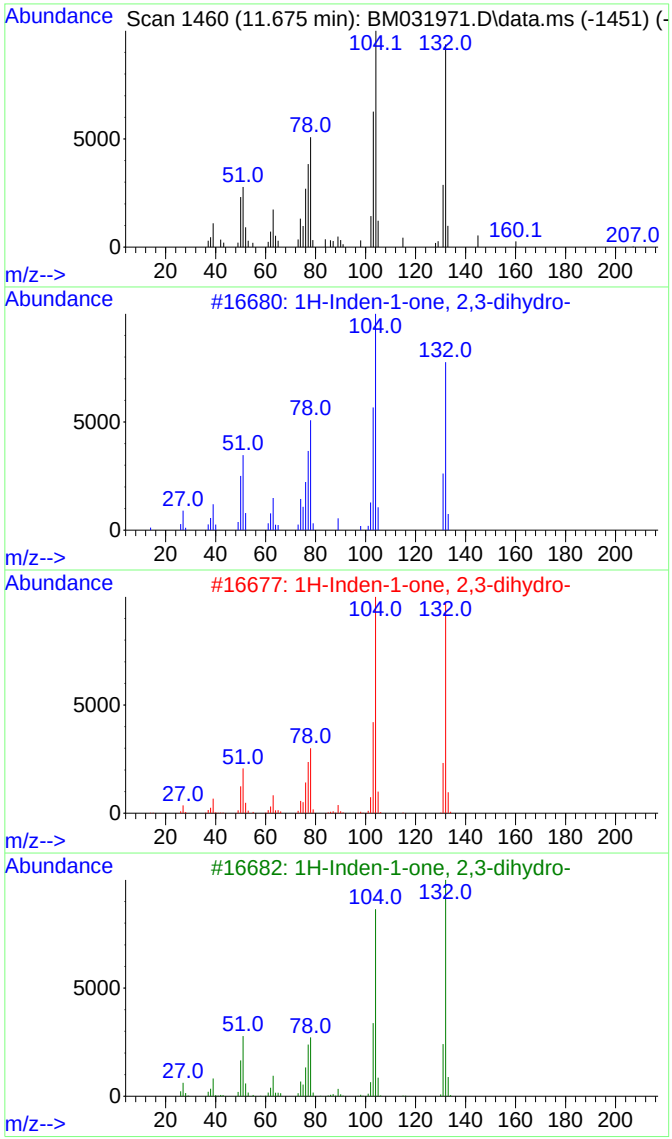
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

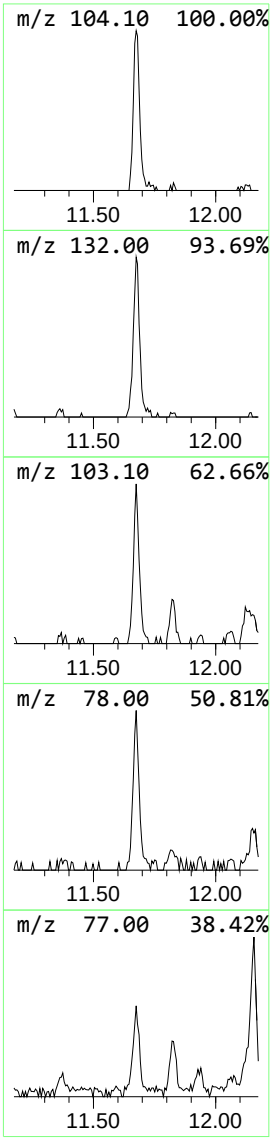
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.675 | 2.33 ng/ul | 101716 | Naphthalene-d8 | 10.263 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-one, 2,3-dihydro- | 132 | C9H8O | 000083-33-0 | 95 |
| 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 | 81 |
| 4 | N-Ethylbenzimidoyl bromide | 211 | C9H10BrN | 041182-87-0 | 74 |
| 5 | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2 | 034760-58-2 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

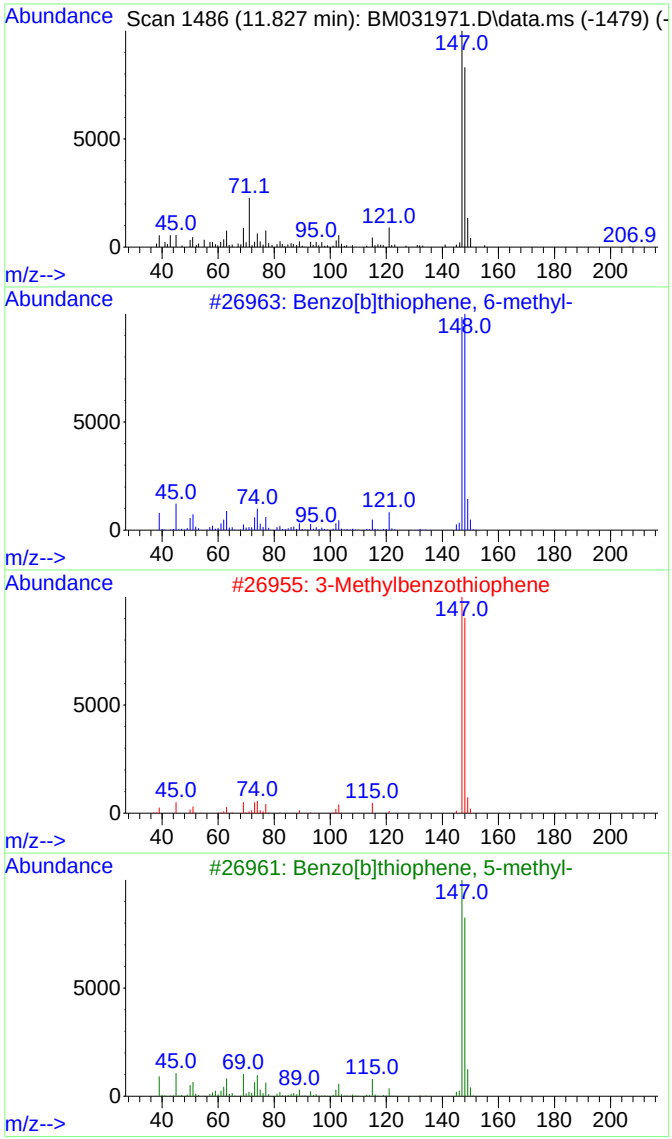
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

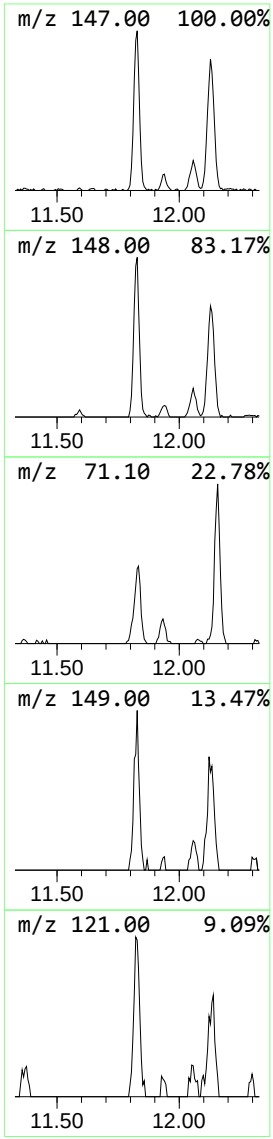
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Benzo[b]thiophene, 6-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.828 | 3.90 ng/ul | 170533 | Naphthalene-d8 | 10.263 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene, 6-methyl- | 148 | C9H8S | 016587-47-6 | 83 |
| 2 | 3-Methylbenzothiophene | 148 | C9H8S | 001455-18-1 | 81 |
| 3 | Benzo[b]thiophene, 5-methyl- | 148 | C9H8S | 014315-14-1 | 80 |
| 4 | Benzo[b]thiophene, 4-methyl- | 148 | C9H8S | 014315-11-8 | 80 |
| 5 | Benzo[b]thiophene, 2-methyl- | 148 | C9H8S | 001195-14-8 | 74 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

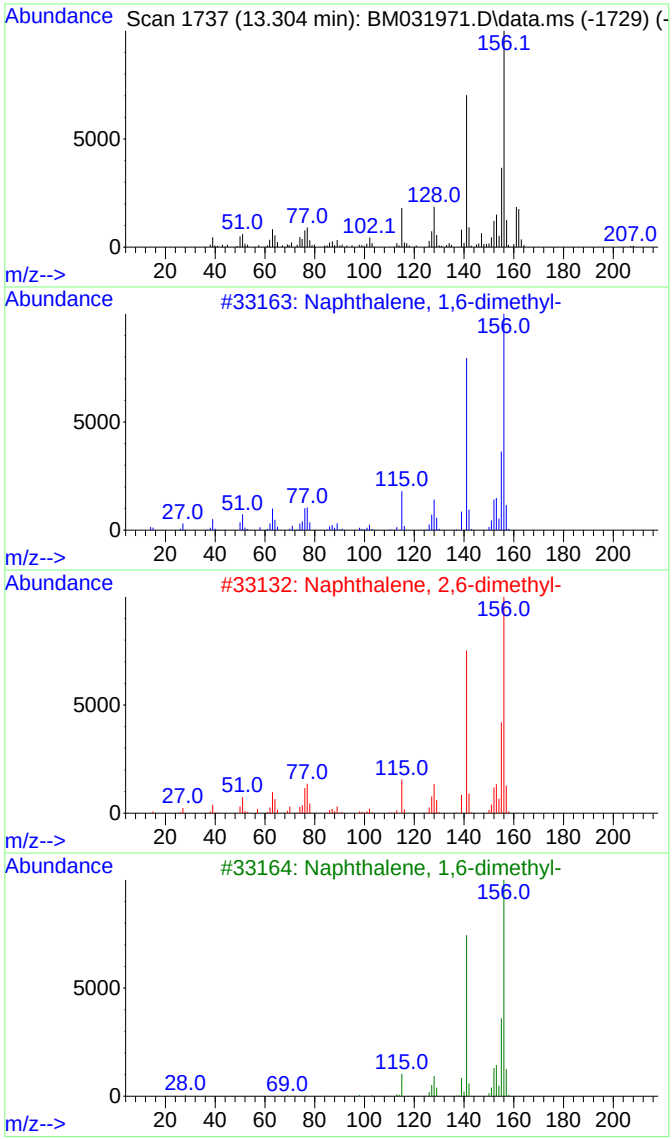
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

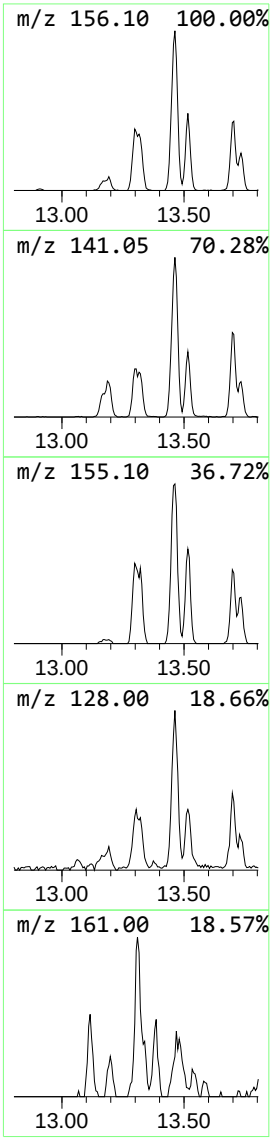
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.304 | 4.61 ng/ul | 355688 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

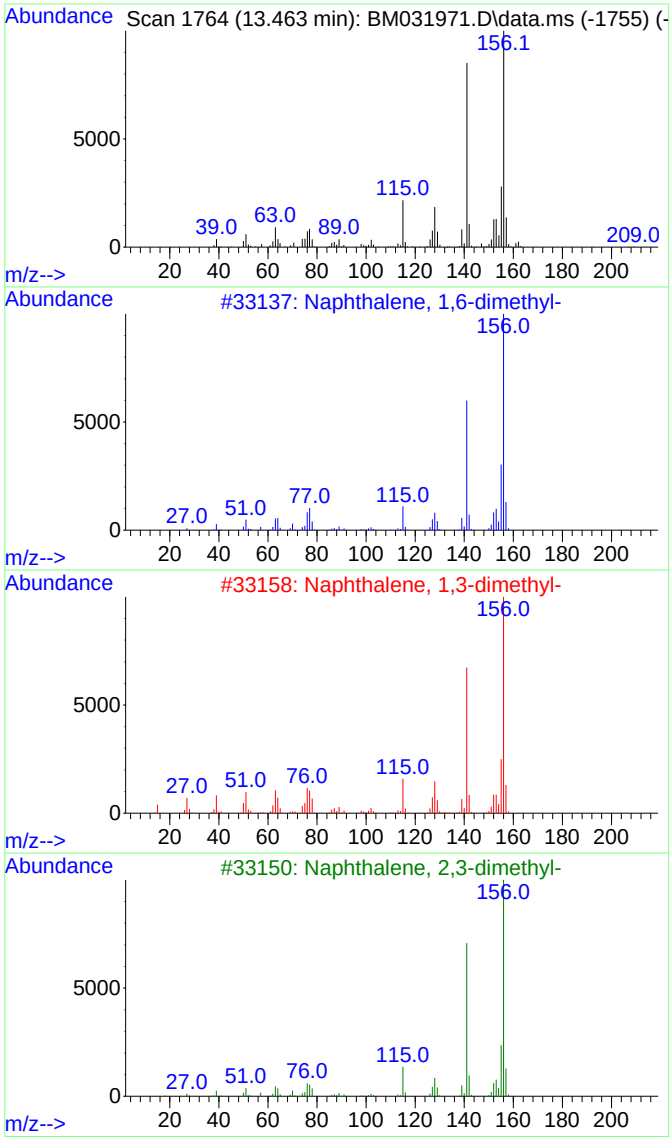
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

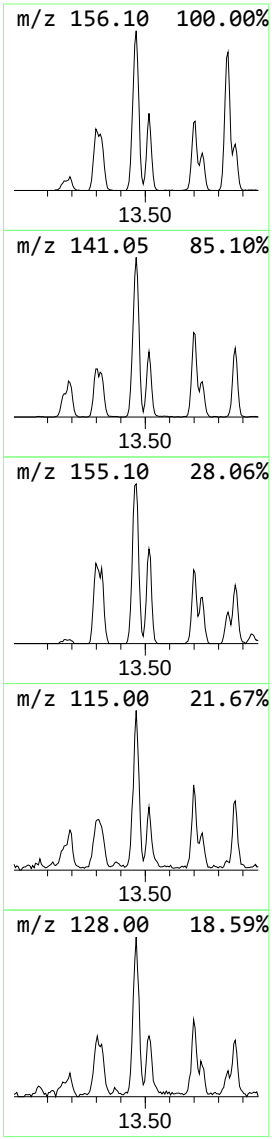
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Naphthalene, 1,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.463 | 7.33 ng/ul | 564988 | Acenaphthene-d10 | 14.145 |

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



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Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

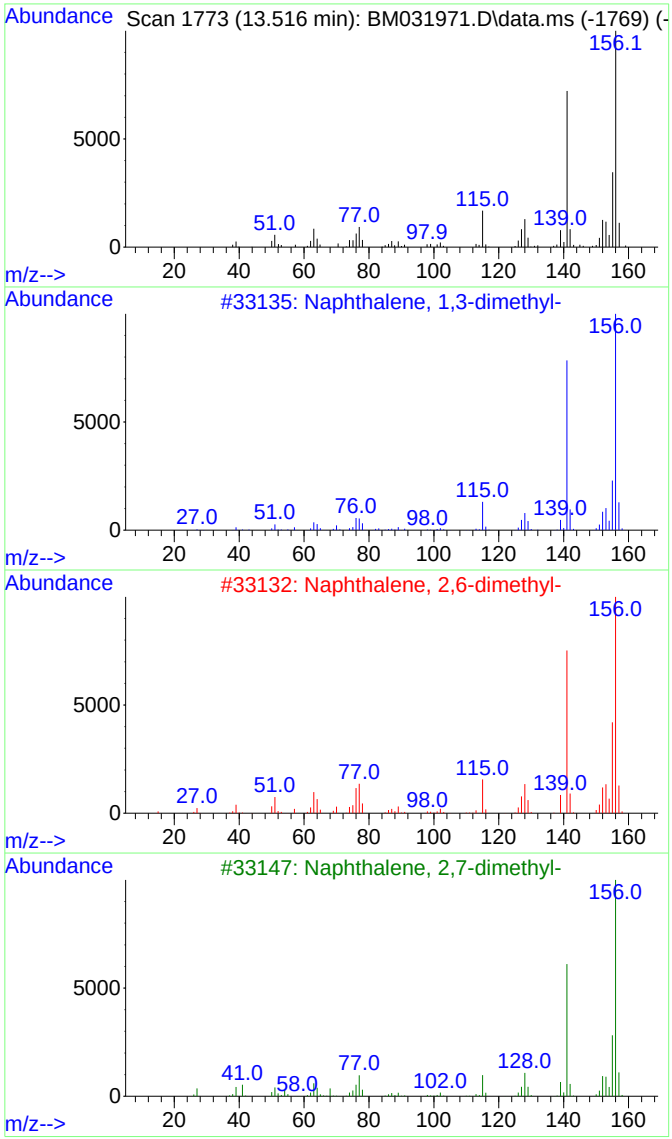
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

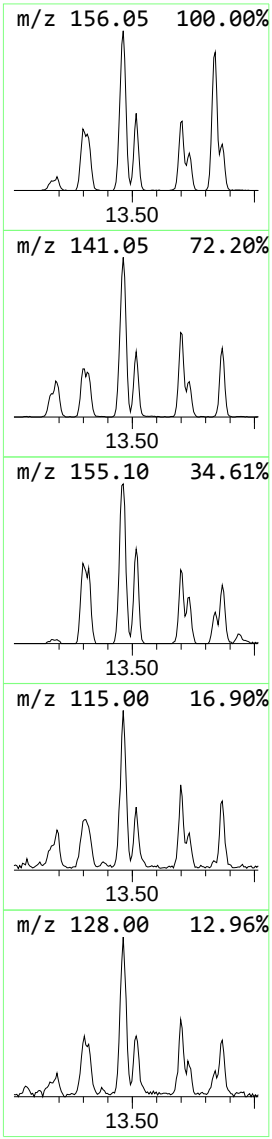
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Naphthalene, 2,6-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.516 | 2.76 ng/ul | 212496 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

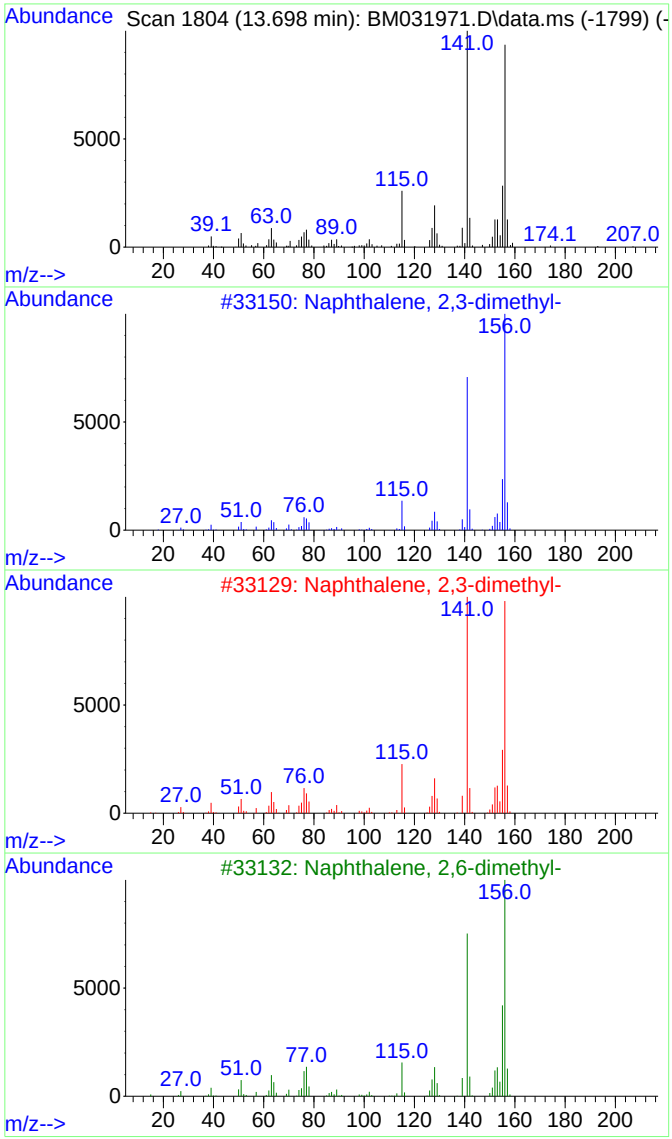
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

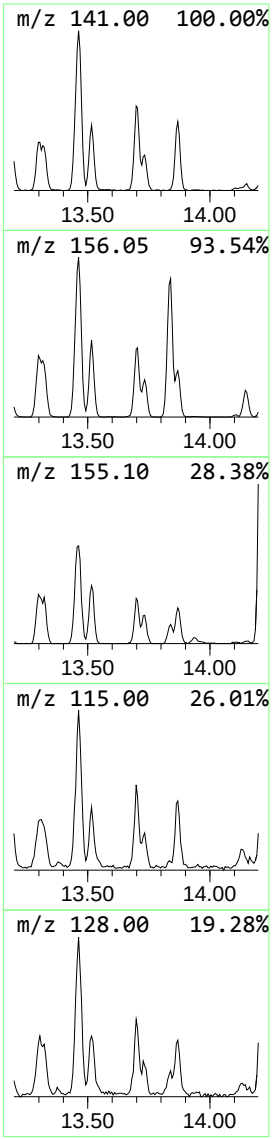
**********

Peak Number 9 Naphthalene, 2,3-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.698 | 3.00 ng/ul | 230921 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |



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Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

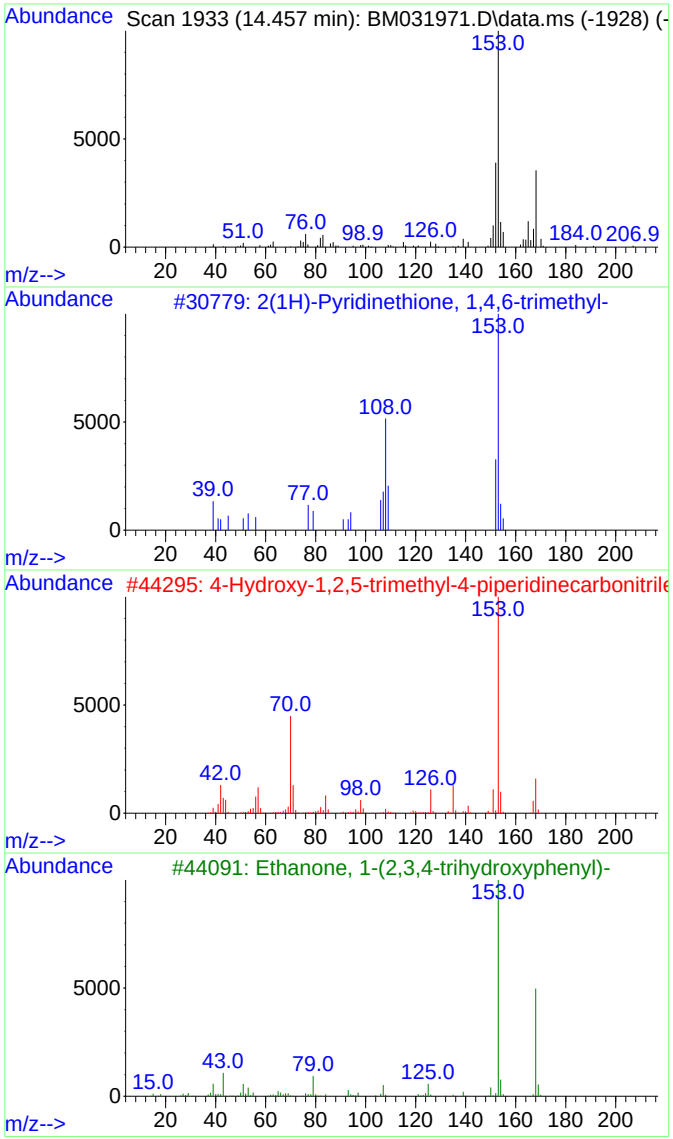
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

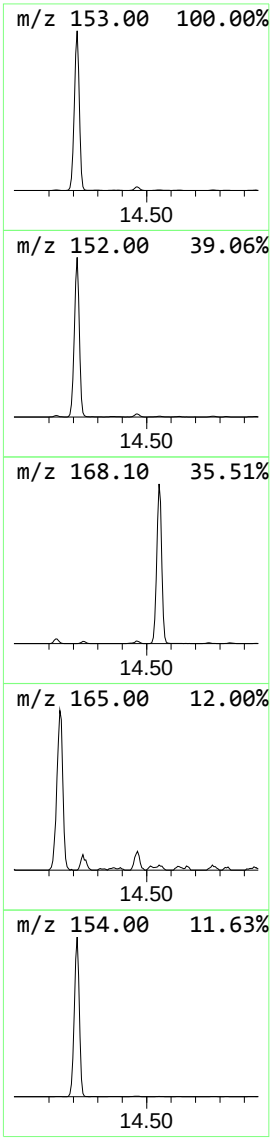
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 2(1H)-Pyridinethione, 1,4,6... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.457 | 2.19 ng/ul | 168887 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(1H)-Pyridinethione, 1,4,6-trim... | 153 | C8H11NS | 019006-70-3 | 52 |
| 2 | 4-Hydroxy-1,2,5-trimethyl-4-pipe... | 168 | C9H16N2O | 051871-79-5 | 50 |
| 3 | Ethanone, 1-(2,3,4-trihydroxyphe... | 168 | C8H8O4 | 000528-21-2 | 49 |
| 4 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 49 |
| 5 | Ethanone, 1-(2,3,4-trihydroxyphe... | 168 | C8H8O4 | 000528-21-2 | 49 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

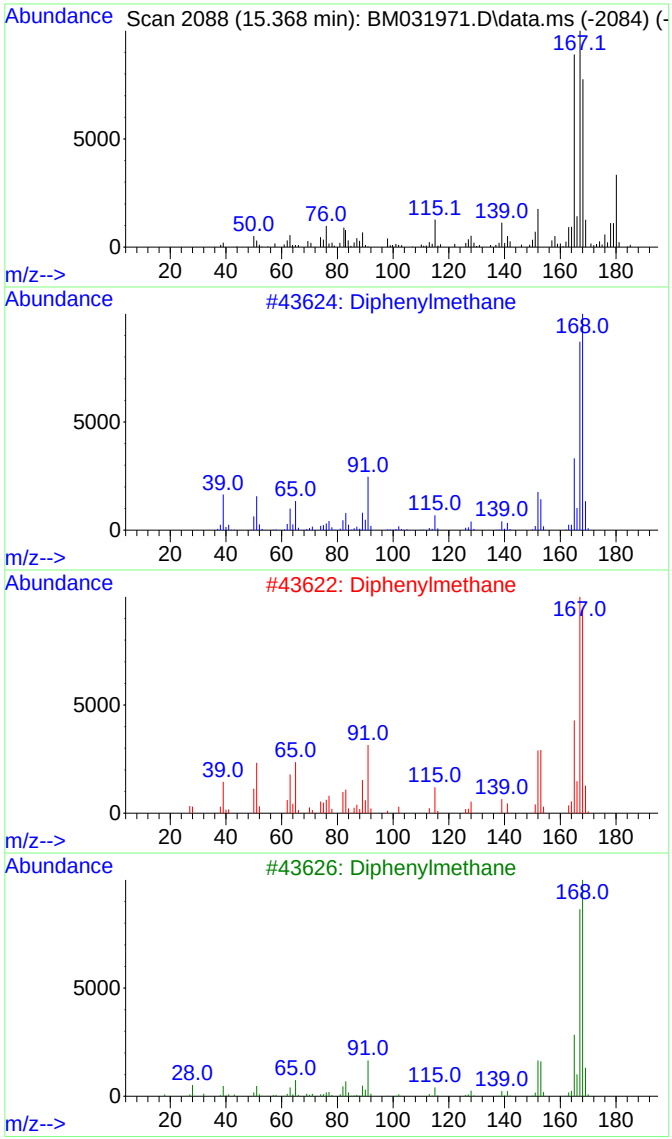
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

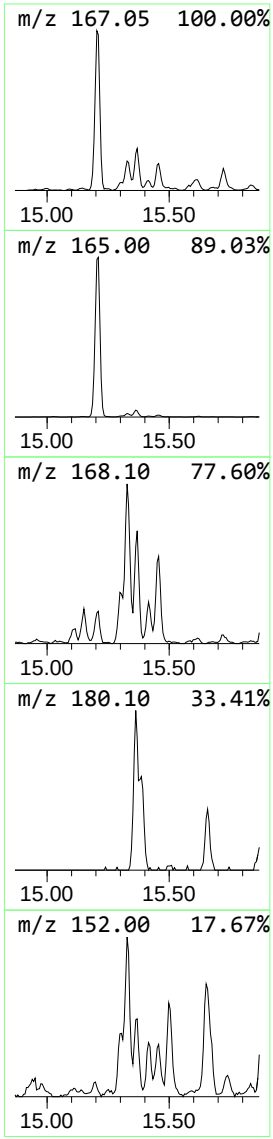
**********

Peak Number 11 unknown-01 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.368 | 3.42 ng/ul | 263862 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 49 |
| 2 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 49 |
| 3 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 46 |
| 4 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 46 |
| 5 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 46 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

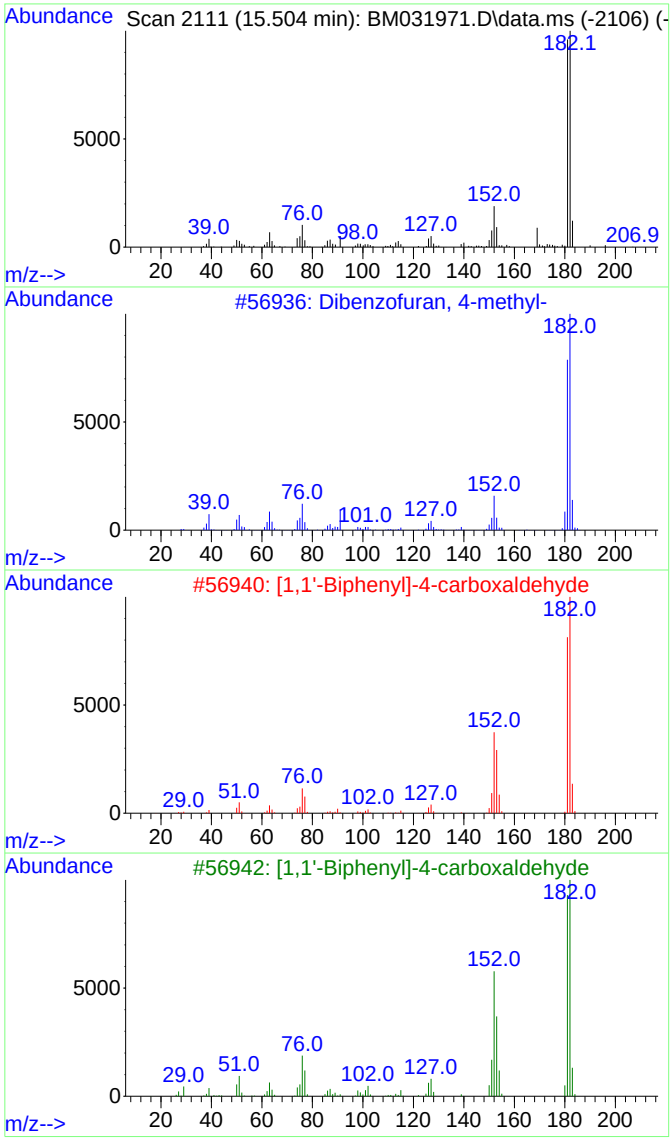
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

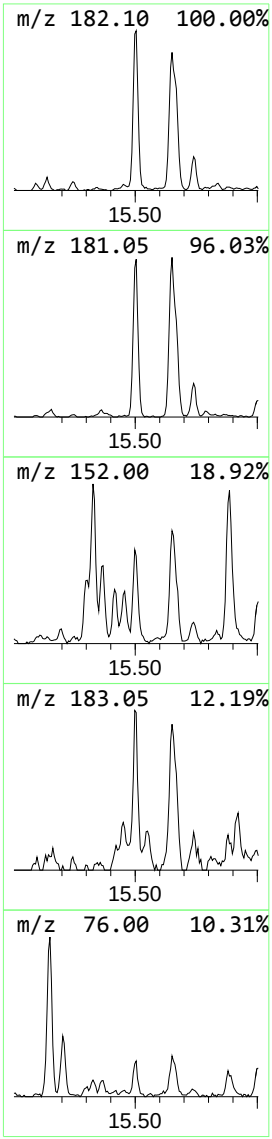
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 Dibenzofuran, 4-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.504 | 2.99 ng/ul | 230779 | Acenaphthene-d10 | 14.145 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 90 |
| 2 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 87 |
| 3 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 78 |
| 4 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |
| 5 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 72 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

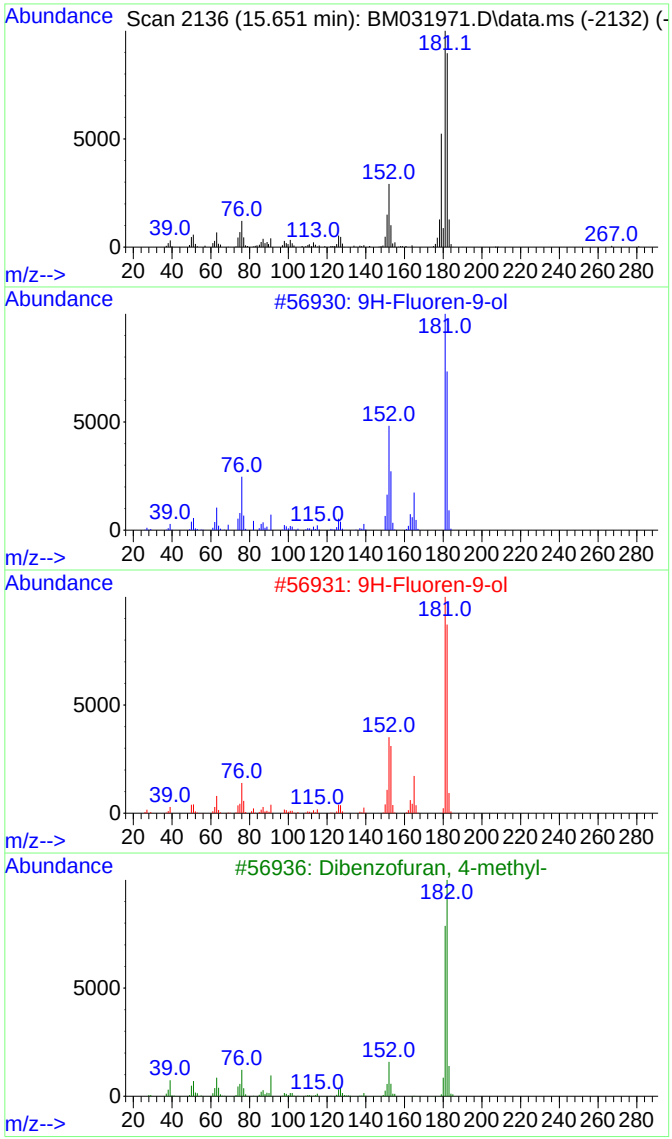
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

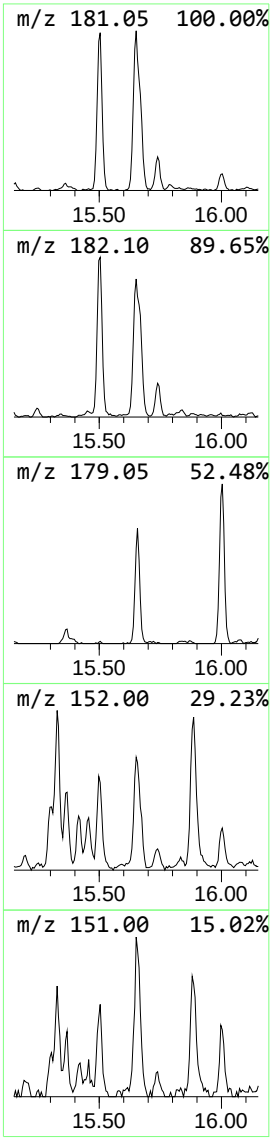
**********

Peak Number 13 9H-Fluoren-9-ol Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.651 | 4.04 ng/ul | 355592 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 64 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 64 |
| 3 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 64 |
| 4 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 58 |
| 5 | 2-Hydroxyfluorene | 182 | C13H10O | 002443-58-5 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

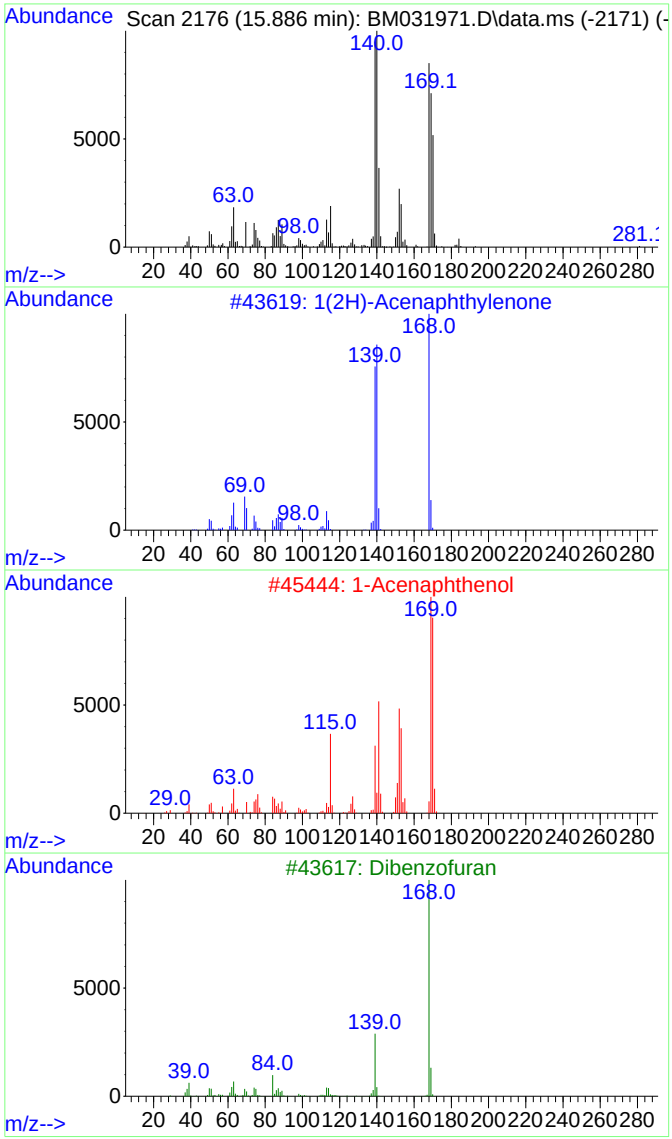
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

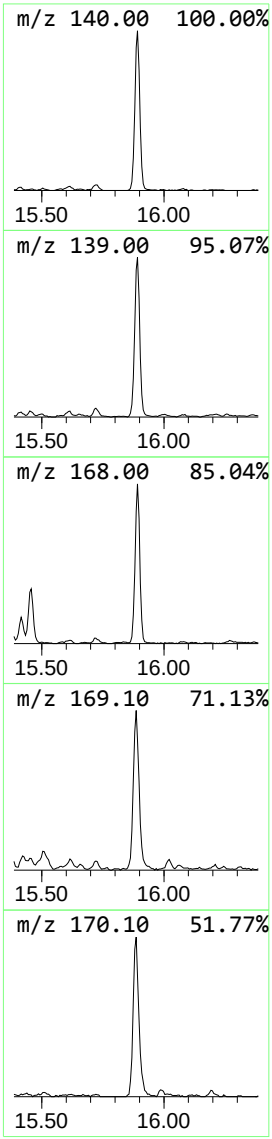
**********

Peak Number 14 1(2H)-Acenaphthylenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.886 | 8.04 ng/ul | 707080 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Acenaphthylenone | 168 | C12H8O | 002235-15-6 | 91 |
| 2 | 1-Acenaphthenol | 170 | C12H10O | 006306-07-6 | 74 |
| 3 | Dibenzofuran | 168 | C12H8O | 000132-64-9 | 42 |
| 4 | 7(4H)-Benzothiazolone, 2-amino-5... | 168 | C7H8N2OS | 017583-10-7 | 27 |
| 5 | Benzene, 2,4-pentadiynyl- | 140 | C11H8 | 041268-41-1 | 25 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

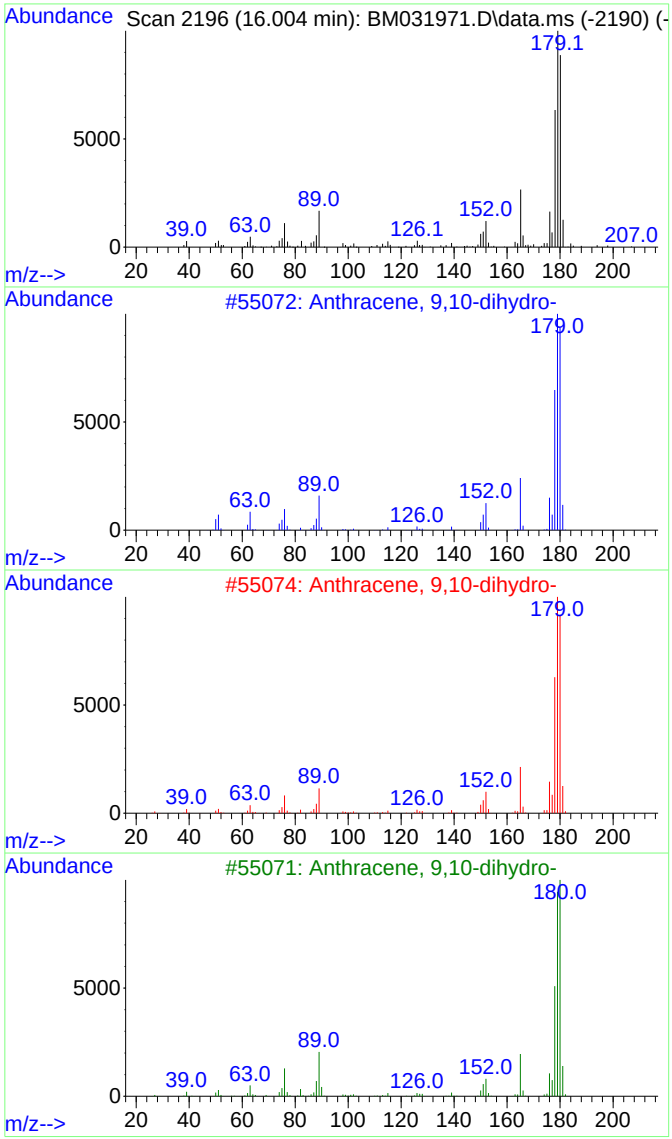
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

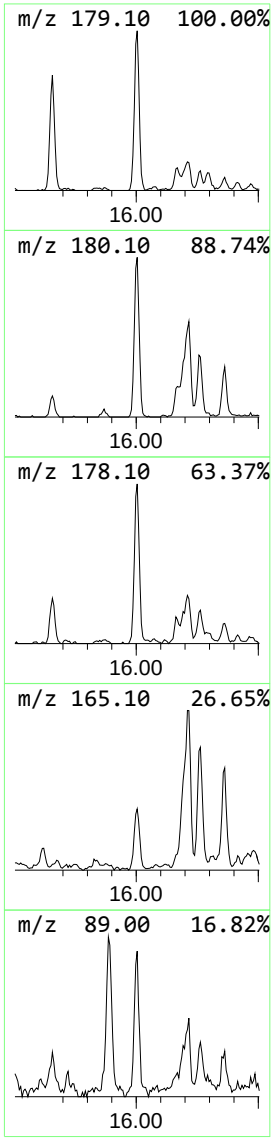
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Anthracene, 9,10-dihydro- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.004 | 2.49 ng/ul | 218749 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9,10-dihydro- | 180 | C14H12 | 000613-31-0 | 96 |
| 2 | Anthracene, 9,10-dihydro- | 180 | C14H12 | 000613-31-0 | 95 |
| 3 | Anthracene, 9,10-dihydro- | 180 | C14H12 | 000613-31-0 | 94 |
| 4 | Phenanthrene, 9,10-dihydro- | 180 | C14H12 | 000776-35-2 | 91 |
| 5 | Phenanthrene, 9,10-dihydro- | 180 | C14H12 | 000776-35-2 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

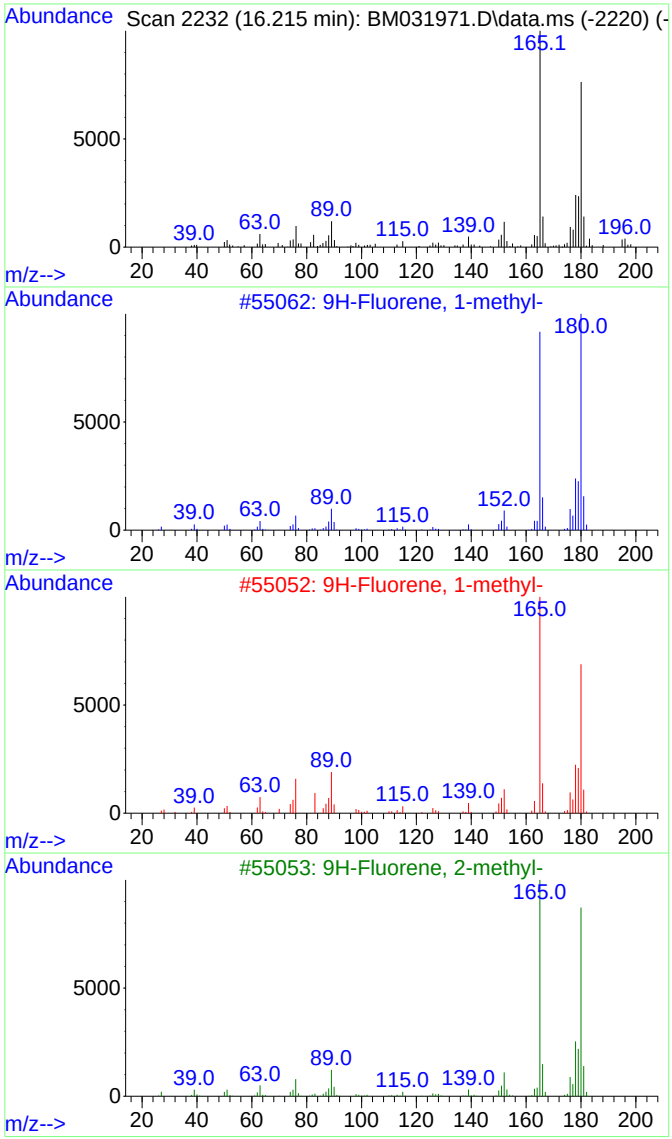
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

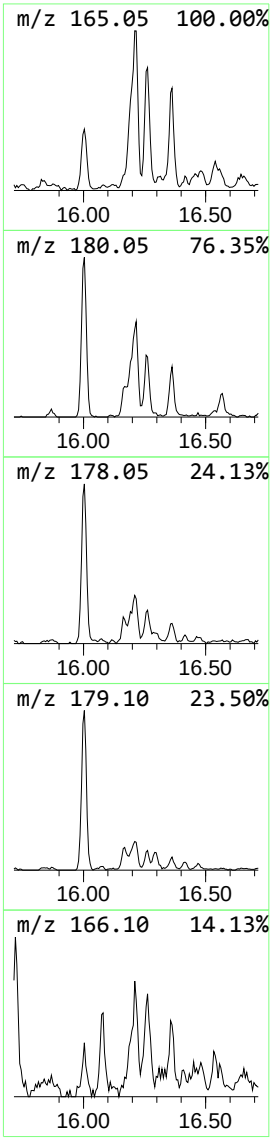
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 9H-Fluorene, 1-methyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.215 | 2.66 ng/ul | 234328 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 97 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 96 |
| 3 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 96 |
| 4 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 96 |
| 5 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

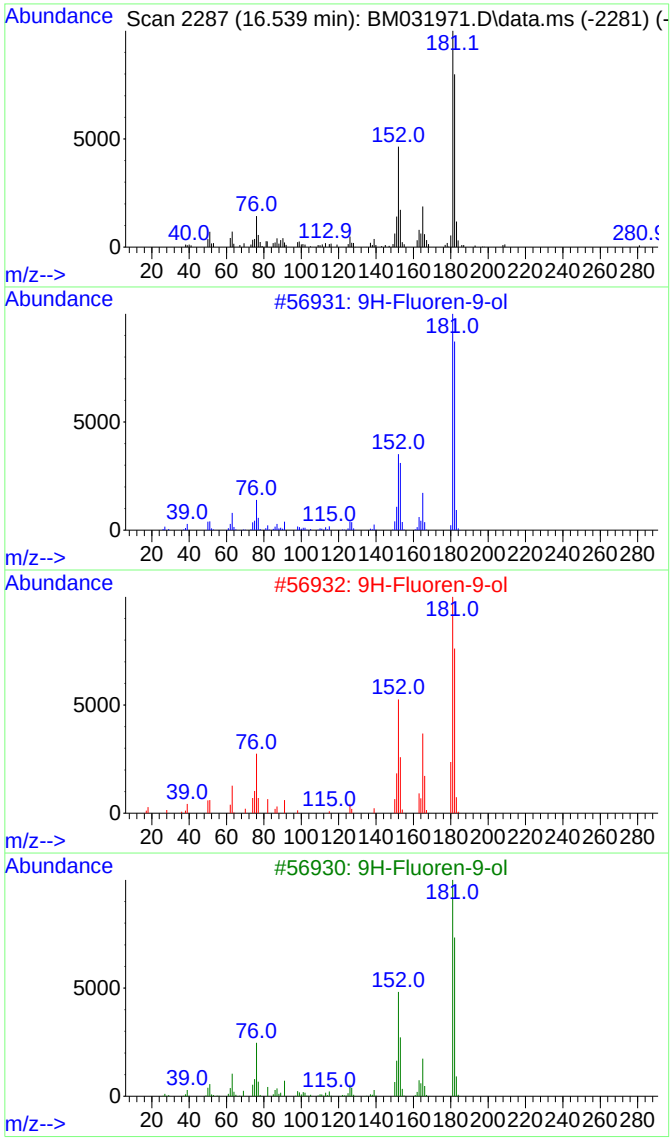
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

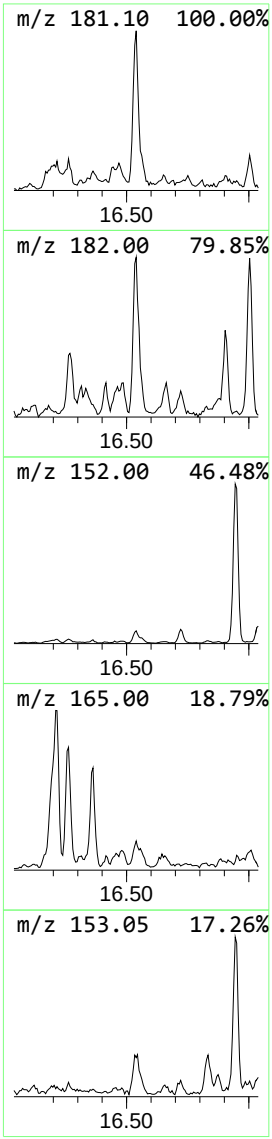
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.539 | 2.08 ng/ul | 182956 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 94 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 93 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 93 |
| 4 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 93 |
| 5 | 3-(1-Naphthyl)acrylaldehyde | 182 | C13H10O | 001504-73-0 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

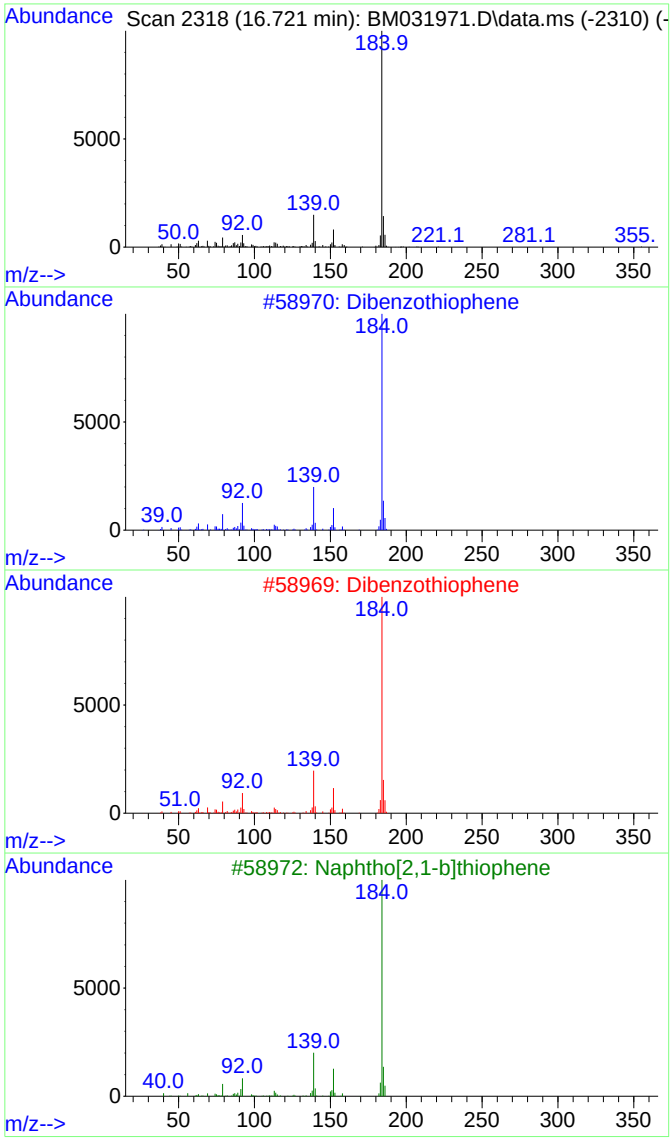
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

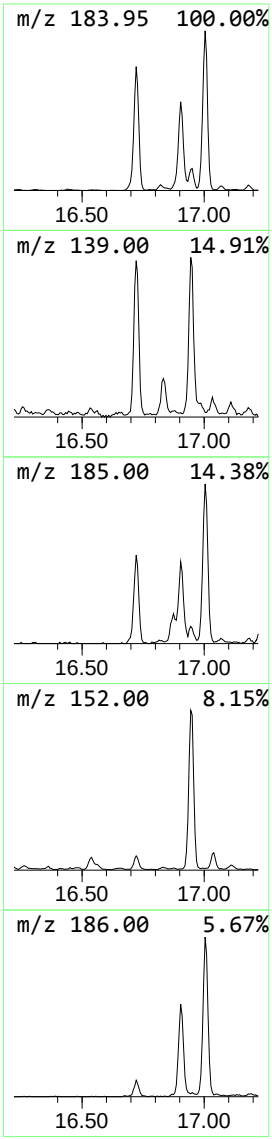
**********

Peak Number 18 Dibenzothiophene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.721 | 4.43 ng/ul | 389507 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 95 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 95 |
| 3 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |
| 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

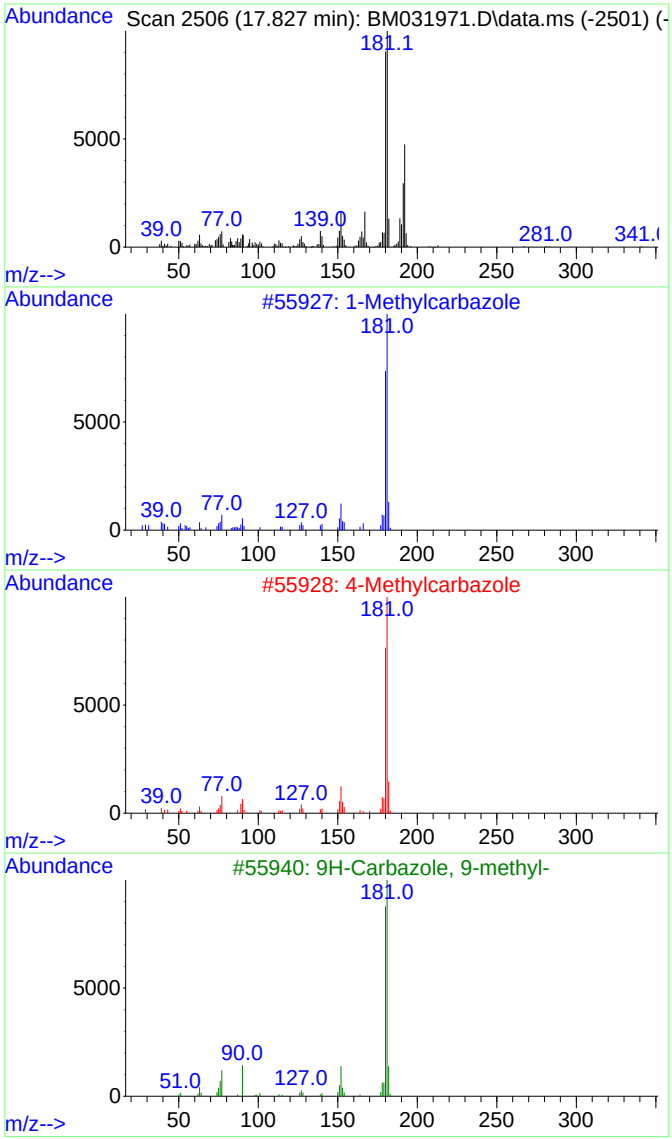
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

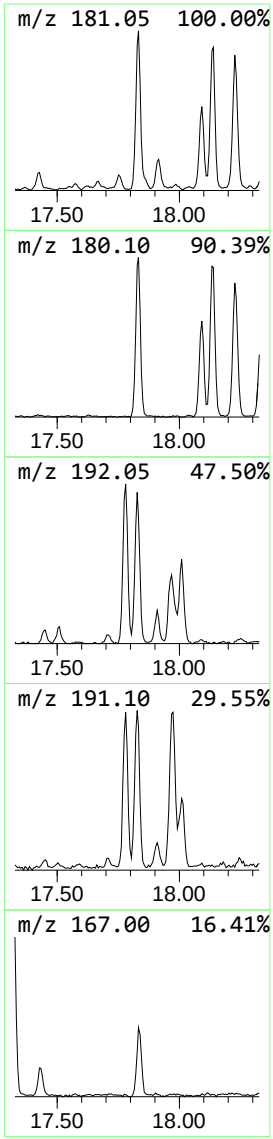
**********

Peak Number 19 1-Methylcarbazole Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.827 | 4.46 ng/ul | 392862 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Methylcarbazole | 181 | C13H11N | 006510-65-2 | 96 |
| 2 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 96 |
| 3 | 9H-Carbazole, 9-methyl- | 181 | C13H11N | 001484-12-4 | 93 |
| 4 | 3-Methylcarbazole | 181 | C13H11N | 004630-20-0 | 92 |
| 5 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

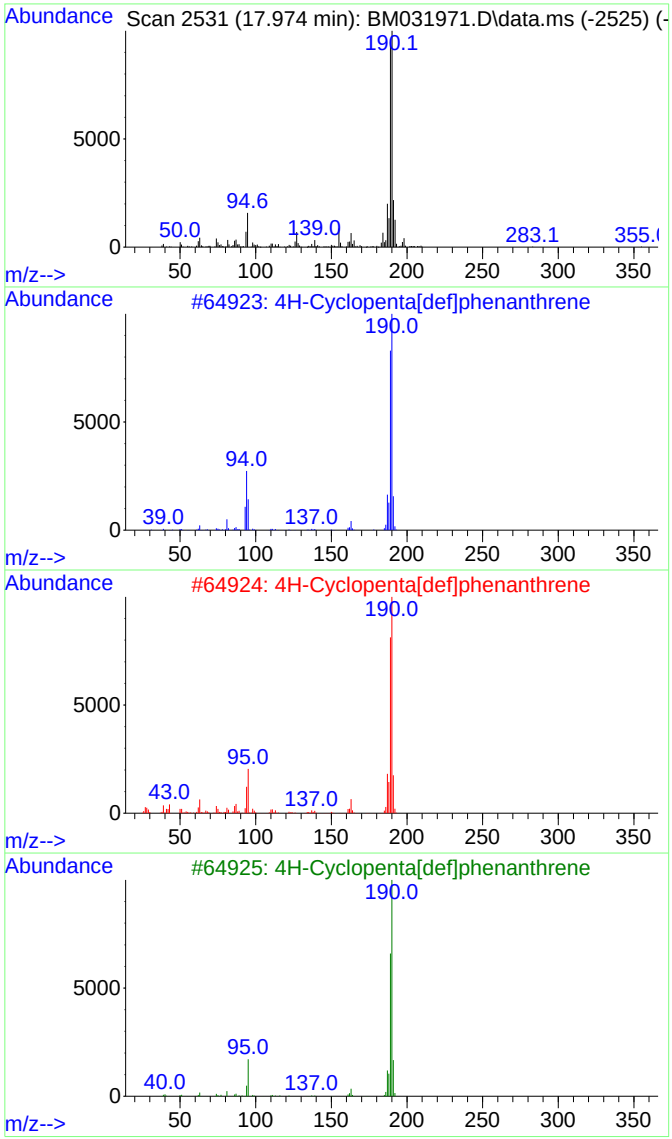
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

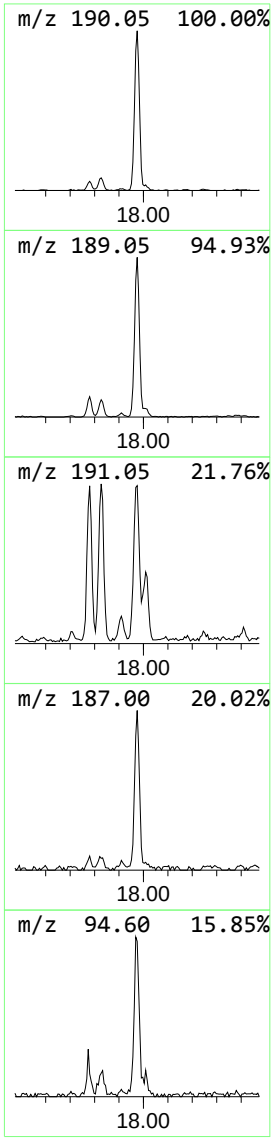
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.974 | 4.96 ng/ul | 436065 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 90 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 80 |
| 4 | Phenol, 4-(2-thienylmethyl)- | 190 | C11H10OS | 091680-55-6 | 59 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 42 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

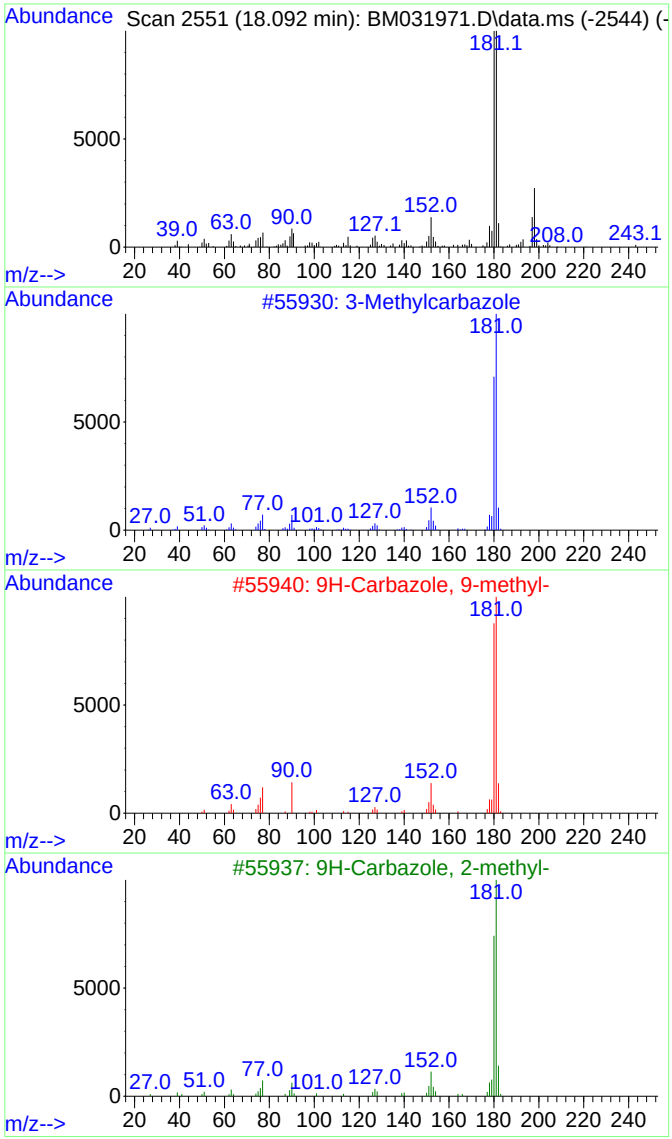
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

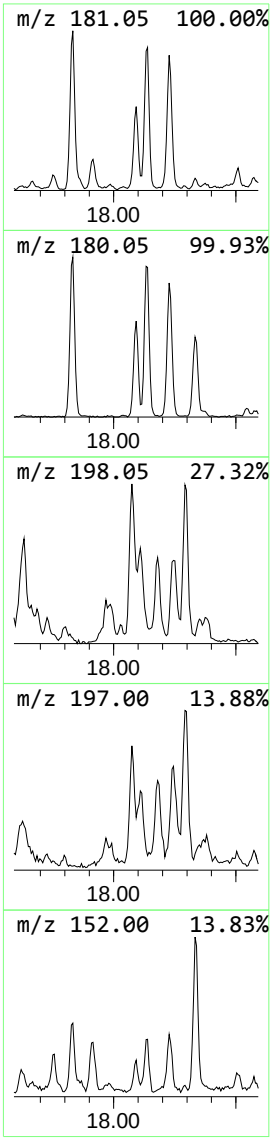
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 3-Methylcarbazole Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.092 | 2.53 ng/ul | 223003 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Methylcarbazole | 181 | C13H11N | 004630-20-0 | 96 |
| 2 | 9H-Carbazole, 9-methyl- | 181 | C13H11N | 001484-12-4 | 94 |
| 3 | 9H-Carbazole, 2-methyl- | 181 | C13H11N | 003652-91-3 | 92 |
| 4 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 92 |
| 5 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

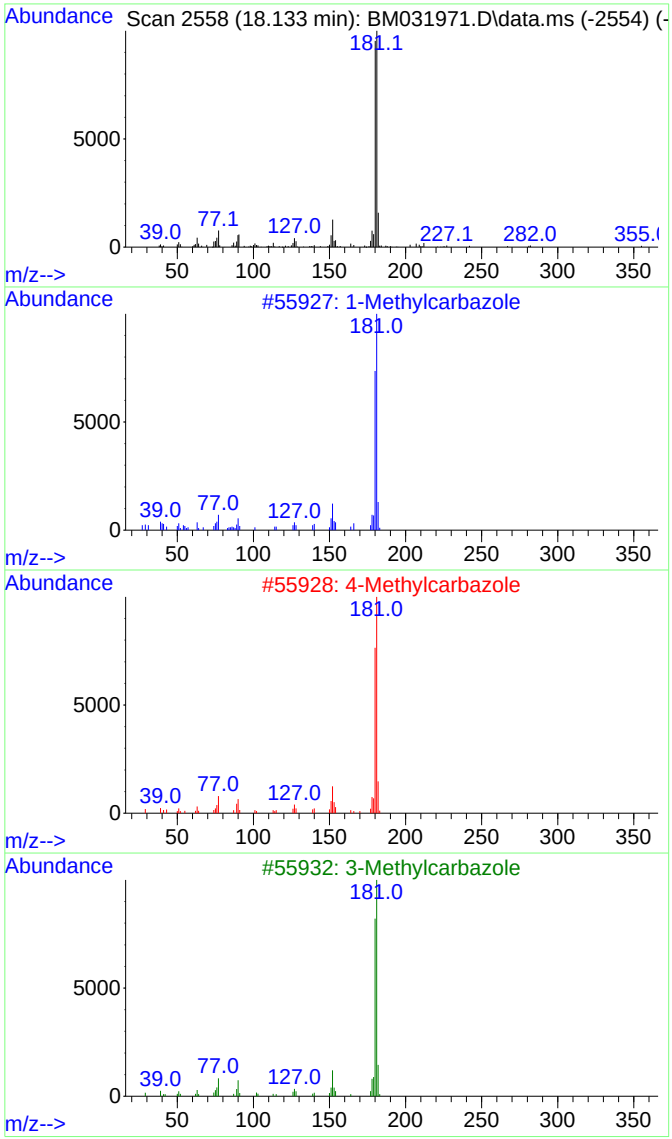
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

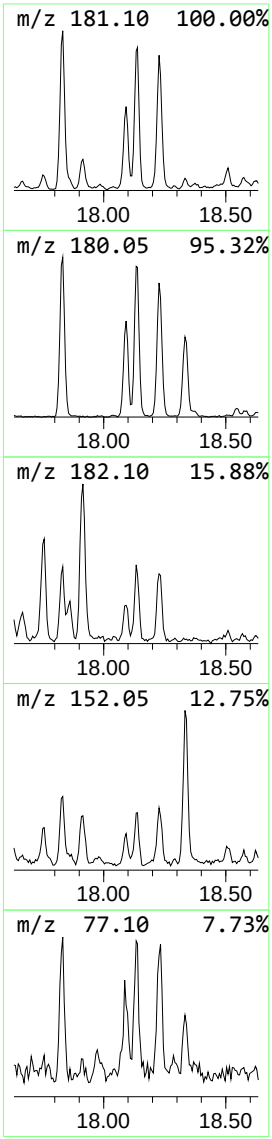
**********

Peak Number 22 4-Methylcarbazole Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.133 | 2.54 ng/ul | 223594 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Methylcarbazole | 181 | C13H11N | 006510-65-2 | 94 |
| 2 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 94 |
| 3 | 3-Methylcarbazole | 181 | C13H11N | 004630-20-0 | 94 |
| 4 | 9H-Carbazole, 9-methyl- | 181 | C13H11N | 001484-12-4 | 91 |
| 5 | 3-Methylcarbazole | 181 | C13H11N | 004630-20-0 | 91 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

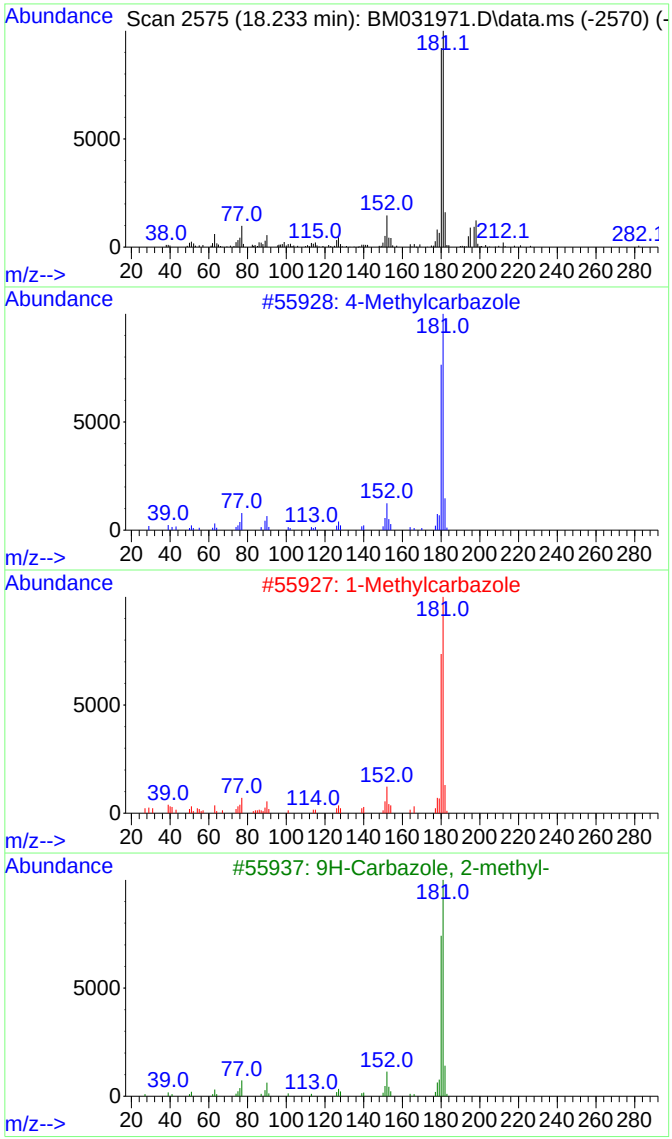
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

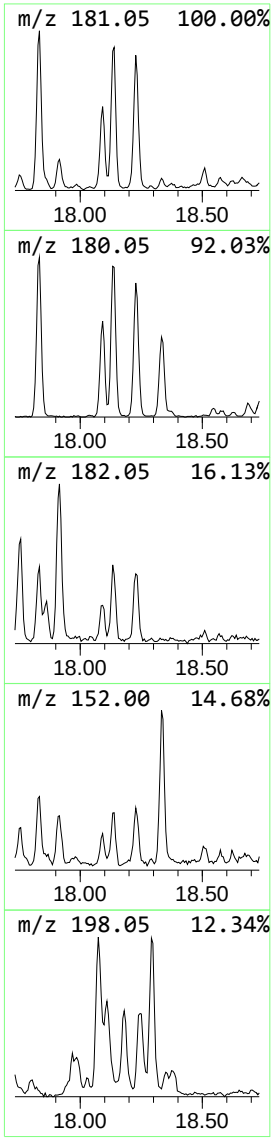
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 9H-Carbazole, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.233 | 3.00 ng/ul | 263984 | Phenanthrene-d10 | 16.904 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Methylcarbazole | 181 | C13H11N | 003770-48-7 | 93 |
| 2 | 1-Methylcarbazole | 181 | C13H11N | 006510-65-2 | 92 |
| 3 | 9H-Carbazole, 2-methyl- | 181 | C13H11N | 003652-91-3 | 81 |
| 4 | 9H-Carbazole, 9-methyl- | 181 | C13H11N | 001484-12-4 | 81 |
| 5 | 3-Methylcarbazole | 181 | C13H11N | 004630-20-0 | 81 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

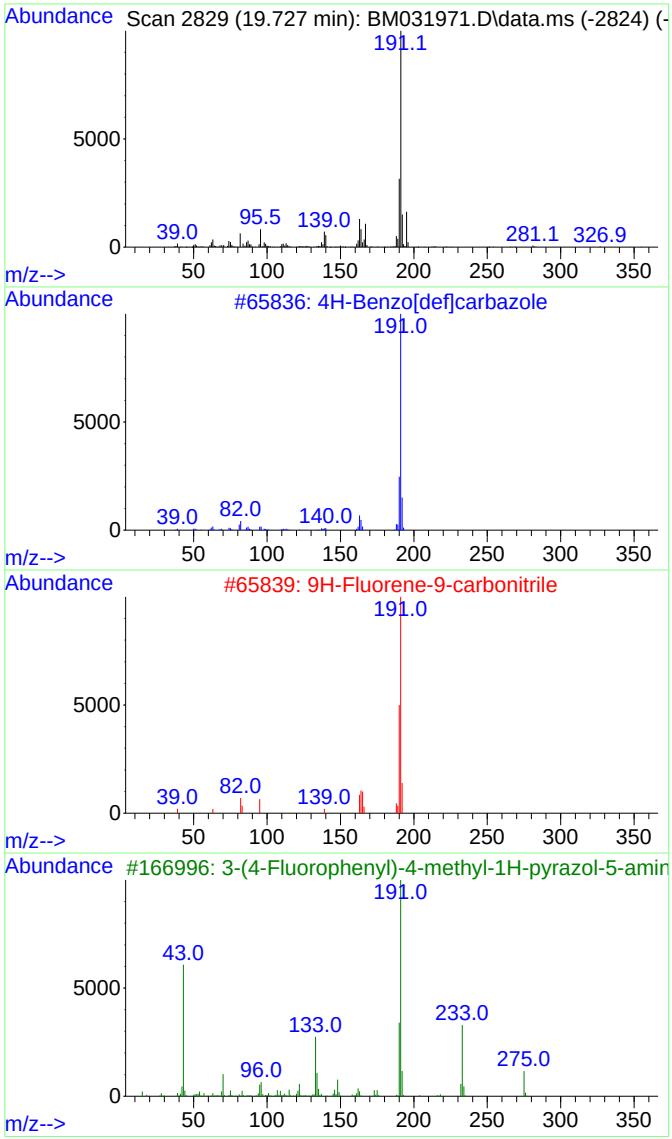
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

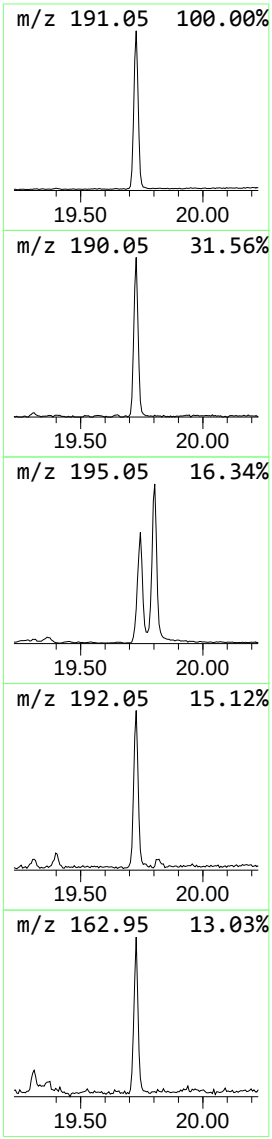
**********

Peak Number 24 4H-Benzo[def]carbazole Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.727 | 6.47 ng/ul | 712202 | Chrysene-d12 | 21.109 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Benzo[def]carbazole | 191 | C14H9N | 000203-65-6 | 94 |
| 2 | 9H-Fluorene-9-carbonitrile | 191 | C14H9N | 001529-40-4 | 58 |
| 3 | 3-(4-Fluorophenyl)-4-methyl-1H-p... | 275 | C14H14FN3O2 | 1000509-54-8 | 53 |
| 4 | 9H-Fluorene-2-carbonitrile | 191 | C14H9N | 002523-48-0 | 52 |
| 5 | 9H-Fluorene-9-carbonitrile | 191 | C14H9N | 001529-40-4 | 50 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

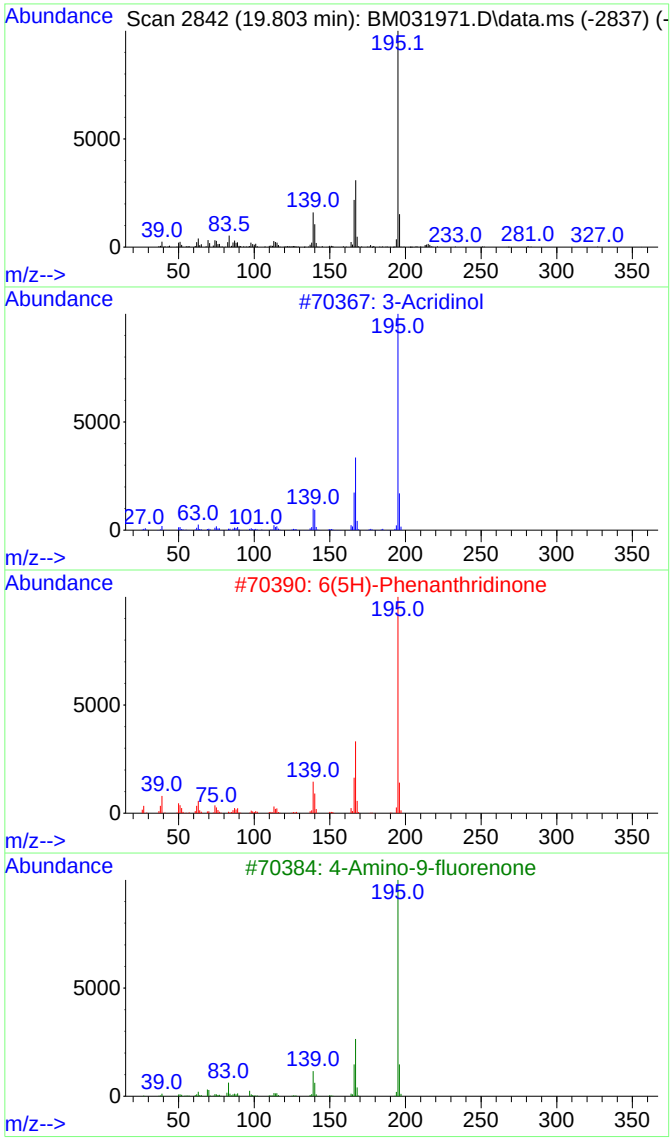
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

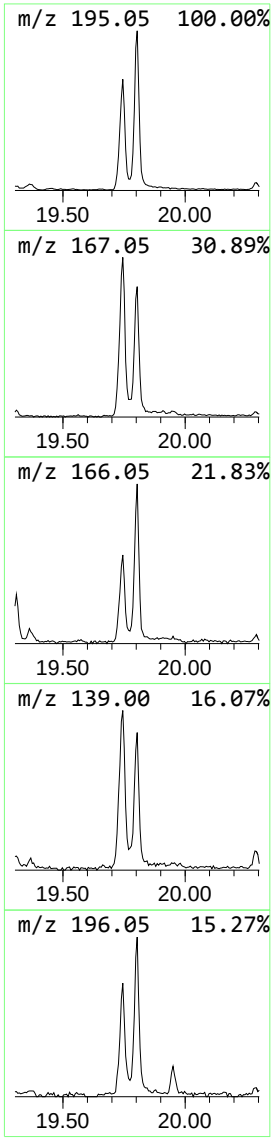
**********

Peak Number 25 3-Acridinol Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.803 | 2.86 ng/ul | 314504 | Chrysene-d12 | 21.109 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Acridinol | 195 | C13H9NO | 007132-70-9 | 97 |
| 2 | 6(5H)-Phenanthridinone | 195 | C13H9NO | 001015-89-0 | 96 |
| 3 | 4-Amino-9-fluorenone | 195 | C13H9NO | 004269-15-2 | 94 |
| 4 | 6(5H)-Phenanthridinone | 195 | C13H9NO | 001015-89-0 | 94 |
| 5 | 9(10H)-Acridinone | 195 | C13H9NO | 000578-95-0 | 94 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

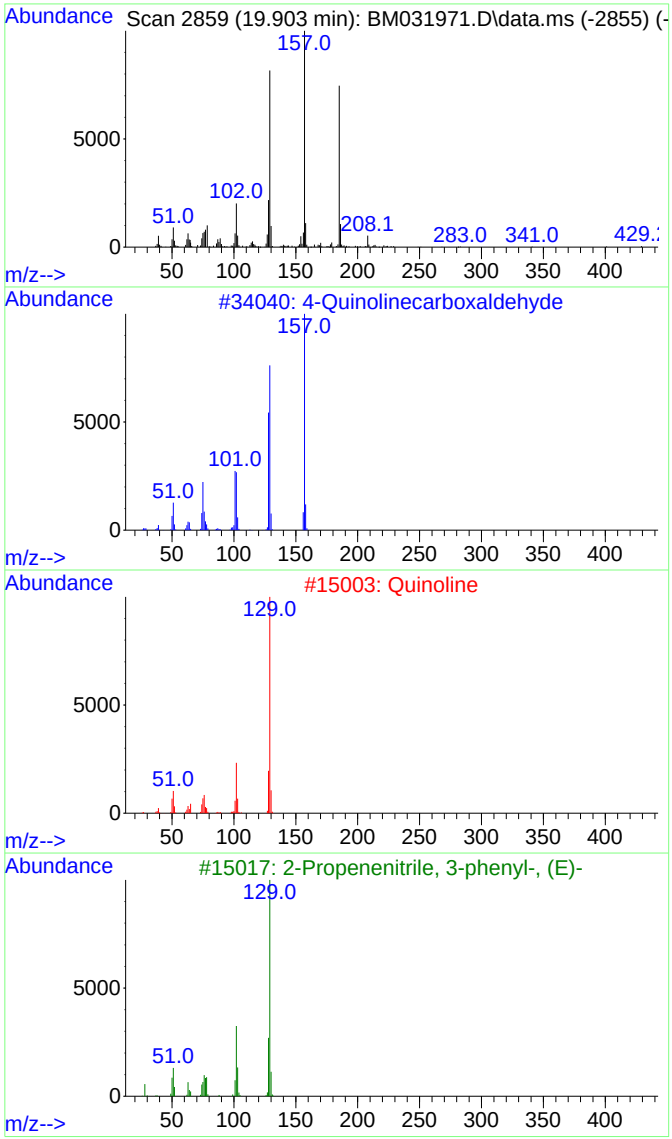
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

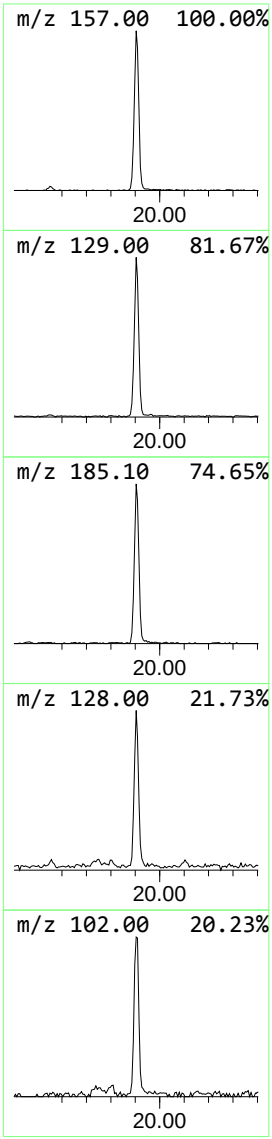
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 4-Quinolinecarboxaldehyde Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.903 | 2.94 ng/ul | 324032 | Chrysene-d12 | 21.109 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Quinolinecarboxaldehyde | 157 | C10H7NO | 004363-93-3 | 64 |
| 2 | Quinoline | 129 | C9H7N | 000091-22-5 | 42 |
| 3 | 2-Propenenitrile, 3-phenyl-, (E)- | 129 | C9H7N | 001885-38-7 | 42 |
| 4 | Isoquinoline | 129 | C9H7N | 000119-65-3 | 42 |
| 5 | Quinoline | 129 | C9H7N | 000091-22-5 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

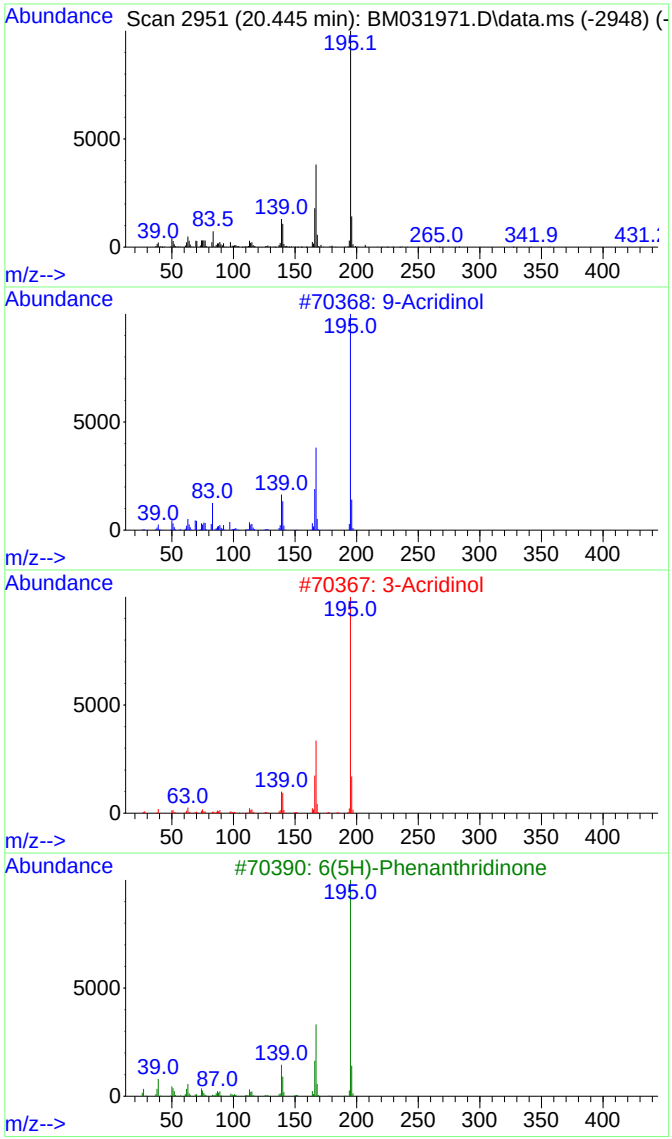
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

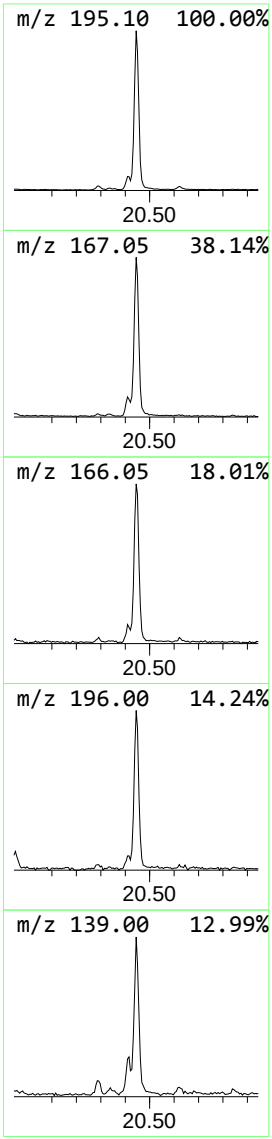
**********

Peak Number 27 9-Acridinol Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.445 | 6.85 ng/ul | 754367 | Chrysene-d12 | 21.109 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Acridinol | 195 | C13H9NO | 000643-62-9 | 97 |
| 2 | 3-Acridinol | 195 | C13H9NO | 007132-70-9 | 97 |
| 3 | 6(5H)-Phenanthridinone | 195 | C13H9NO | 001015-89-0 | 96 |
| 4 | 9(10H)-Acridinone | 195 | C13H9NO | 000578-95-0 | 95 |
| 5 | 9(10H)-Acridinone | 195 | C13H9NO | 000578-95-0 | 95 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

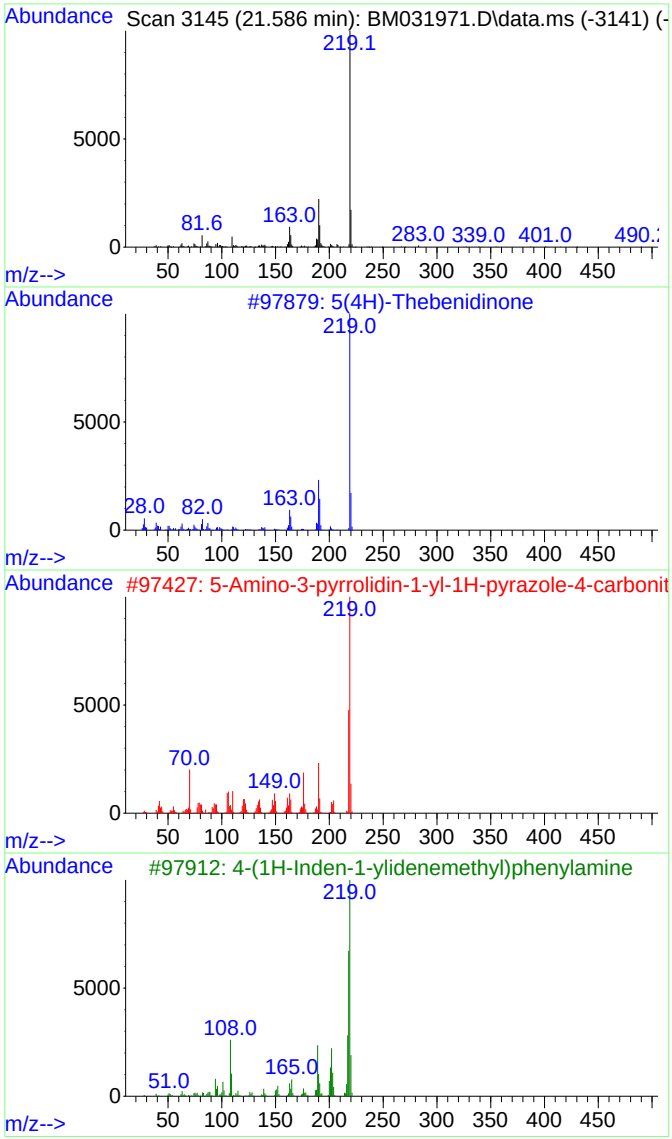
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

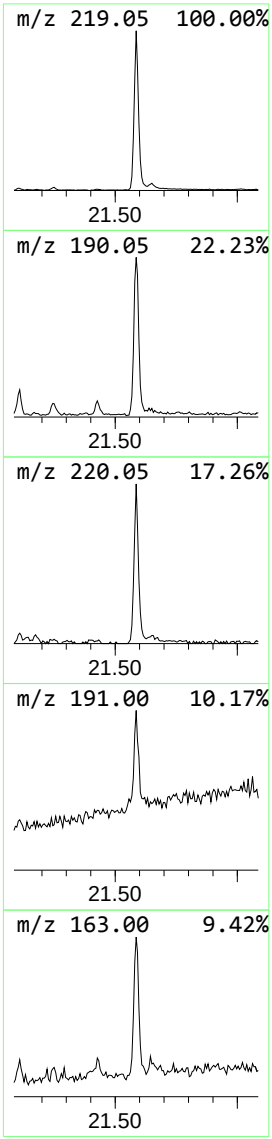
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 5(4H)-Thebenidinone Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.586 | 2.61 ng/ul | 287550 | Chrysene-d12 | 21.109 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5(4H)-Thebenidinone | 219 | C15H9NO | 064884-40-8 | 93 |
| 2 | 5-Amino-3-pyrrolidin-1-yl-1H-pyr... | 219 | C11H17N5 | 1000499-90-1 | 86 |
| 3 | 4-(1H-Inden-1-ylidenemethyl)phen... | 219 | C16H13N | 000487-61-6 | 72 |
| 4 | 7,8-Dimethoxy-1,3-dihydro-2H-3-b... | 219 | C12H13NO3 | 073942-87-7 | 64 |
| 5 | Pyrrolidine, 1-tricyclo[4.3.1.1<... | 219 | C15H25N | 085538-51-8 | 60 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
DBKD5

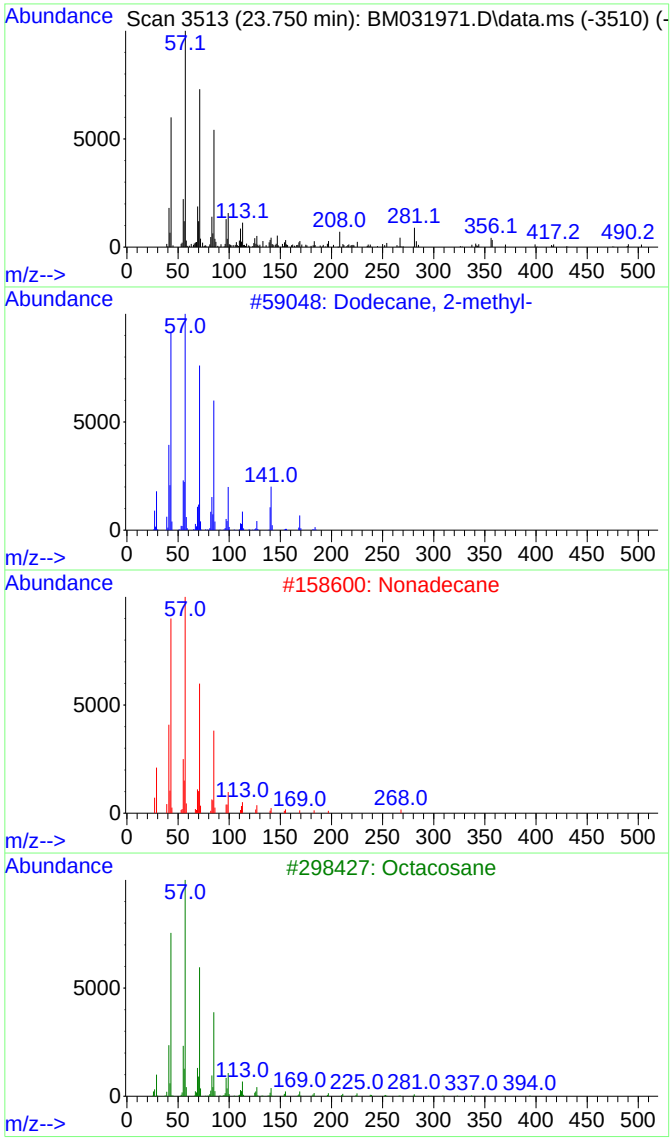
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

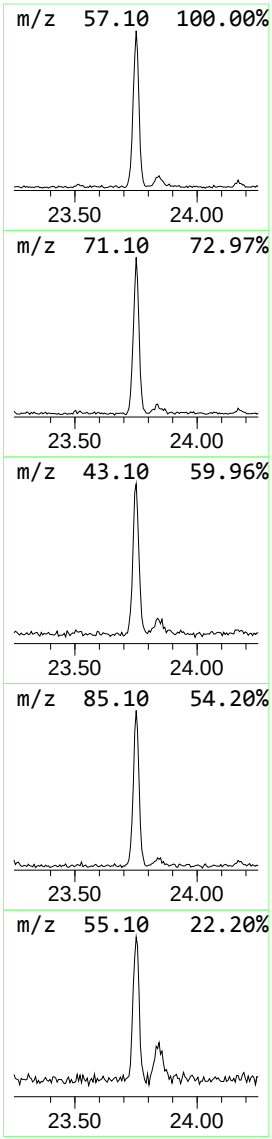
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.750 | 2.06 ng/ul | 200851 | Perylene-d12 | 23.244 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 81 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 81 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 81 |
| 4 | Octacosane, 2-methyl- | 408 | C29H60 | 001560-98-1 | 74 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 74 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM083021\
Data File : BM031971.D
Acq On : 31 Aug 2021 04:25
Operator : CG/JU
Sample : M3448-03
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBKD5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM082821.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Indane | 7.869 | 18.1 | ng/ul | 516826 | 1 | 7.510 | 571713 | 20.0 |
| Benzene, 1-ethe... | 9.669 | 4.2 | ng/ul | 181638 | 2 | 10.263 | 873935 | 20.0 |
| Ethanol, 2-(2-b... | 10.069 | 3.2 | ng/ul | 139912 | 2 | 10.263 | 873935 | 20.0 |
| 1H-Inden-1-one,... | 11.675 | 2.3 | ng/ul | 101716 | 2 | 10.263 | 873935 | 20.0 |
| Benzo[b]thiophe... | 11.828 | 3.9 | ng/ul | 170533 | 2 | 10.263 | 873935 | 20.0 |
| Naphthalene, 1,... | 13.304 | 4.6 | ng/ul | 355688 | 3 | 14.145 | 1541470 | 20.0 |
| Naphthalene, 1,... | 13.463 | 7.3 | ng/ul | 564988 | 3 | 14.145 | 1541470 | 20.0 |
| Naphthalene, 2,... | 13.516 | 2.8 | ng/ul | 212496 | 3 | 14.145 | 1541470 | 20.0 |
| Naphthalene, 2,... | 13.698 | 3.0 | ng/ul | 230921 | 3 | 14.145 | 1541470 | 20.0 |
| 2(1H)-Pyridinet... | 14.457 | 2.2 | ng/ul | 168887 | 3 | 14.145 | 1541470 | 20.0 |
| unknown-01 | 15.368 | 3.4 | ng/ul | 263862 | 3 | 14.145 | 1541470 | 20.0 |
| Dibenzofuran, 4... | 15.504 | 3.0 | ng/ul | 230779 | 3 | 14.145 | 1541470 | 20.0 |
| 9H-Fluoren-9-ol | 15.651 | 4.0 | ng/ul | 355592 | 4 | 16.904 | 1759740 | 20.0 |
| 1(2H)-Acenaphth... | 15.886 | 8.0 | ng/ul | 707080 | 4 | 16.904 | 1759740 | 20.0 |
| Anthracene, 9,1... | 16.004 | 2.5 | ng/ul | 218749 | 4 | 16.904 | 1759740 | 20.0 |
| 9H-Fluorene, 1-... | 16.215 | 2.7 | ng/ul | 234328 | 4 | 16.904 | 1759740 | 20.0 |
| [1,1'-Biphenyl]... | 16.539 | 2.1 | ng/ul | 182956 | 4 | 16.904 | 1759740 | 20.0 |
| Dibenzothiophene | 16.721 | 4.4 | ng/ul | 389507 | 4 | 16.904 | 1759740 | 20.0 |
| 1-Methylcarbazole | 17.827 | 4.5 | ng/ul | 392862 | 4 | 16.904 | 1759740 | 20.0 |
| 4H-Cyclopenta[d... | 17.974 | 5.0 | ng/ul | 436065 | 4 | 16.904 | 1759740 | 20.0 |
| 3-Methylcarbazole | 18.092 | 2.5 | ng/ul | 223003 | 4 | 16.904 | 1759740 | 20.0 |
| 4-Methylcarbazole | 18.133 | 2.5 | ng/ul | 223594 | 4 | 16.904 | 1759740 | 20.0 |
| 9H-Carbazole, 2... | 18.233 | 3.0 | ng/ul | 263984 | 4 | 16.904 | 1759740 | 20.0 |
| 4H-Benzo[def]ca... | 19.727 | 6.5 | ng/ul | 712202 | 5 | 21.109 | 2201780 | 20.0 |
| 3-Acridinol | 19.803 | 2.9 | ng/ul | 314504 | 5 | 21.109 | 2201780 | 20.0 |
| 4-Quinolinecarb... | 19.903 | 2.9 | ng/ul | 324032 | 5 | 21.109 | 2201780 | 20.0 |
| 9-Acridinol | 20.445 | 6.8 | ng/ul | 754367 | 5 | 21.109 | 2201780 | 20.0 |
| 5(4H)-Thebenidi... | 21.586 | 2.6 | ng/ul | 287550 | 5 | 21.109 | 2201780 | 20.0 |
| (DEL) Alkane: S... | 23.750 | 2.1 | ng/ul | 200851 | 6 | 23.244 | 1949140 | 20.0 |