LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

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-BM072720MA.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 | 2.907 | 23 | 29 | 36 | rBV | 219147 | 341947 | 19.22% | 1.765% |
| 2 | 2.978 | 37 | 41 | 57 | rVB | 1025861 | 1177993 | 66.20% | 6.079% |
| 3 | 3.219 | 78 | 82 | 91 | rVB | 23801 | 31416 | 1.77% | 0.162% |
| 4 | 3.525 | 132 | 134 | 137 | rVB3 | 2049 | 2002 | 0.11% | 0.010% |
| 5 | 3.854 | 186 | 190 | 196 | rVB3 | 8523 | 12287 | 0.69% | 0.063% |
| 6 | 3.937 | 202 | 204 | 210 | rVB3 | 6111 | 9253 | 0.52% | 0.048% |
| 7 | 4.154 | 237 | 241 | 244 | rBV2 | 4538 | 5186 | 0.29% | 0.027% |
| 8 | 4.548 | 305 | 308 | 312 | rBV4 | 2155 | 2780 | 0.16% | 0.014% |
| 9 | 4.831 | 354 | 356 | 359 | rVV3 | 2714 | 2841 | 0.16% | 0.015% |
| 10 | 6.842 | 691 | 698 | 707 | rVB | 99110 | 151581 | 8.52% | 0.782% |
| 11 | 7.007 | 720 | 726 | 736 | rBV | 263349 | 397091 | 22.32% | 2.049% |
| 12 | 7.207 | 752 | 760 | 767 | rBV | 306741 | 477823 | 26.85% | 2.466% |
| 13 | 7.284 | 771 | 773 | 778 | rBV4 | 3017 | 5209 | 0.29% | 0.027% |
| 14 | 7.325 | 778 | 780 | 784 | rVB4 | 2069 | 2065 | 0.12% | 0.011% |
| 15 | 7.672 | 832 | 839 | 846 | rVB | 280727 | 438941 | 24.67% | 2.265% |
| 16 | 8.366 | 947 | 957 | 965 | rBV | 220577 | 337398 | 18.96% | 1.741% |
| 17 | 8.807 | 1025 | 1032 | 1043 | rVB | 337873 | 542130 | 30.47% | 2.798% |
| 18 | 9.530 | 1148 | 1155 | 1164 | rBV | 241848 | 392779 | 22.07% | 2.027% |
| 19 | 10.066 | 1239 | 1246 | 1254 | rBV | 402454 | 654652 | 36.79% | 3.379% |
| 20 | 10.442 | 1303 | 1310 | 1318 | rVB | 346243 | 560061 | 31.48% | 2.890% |
| 21 | 10.572 | 1326 | 1332 | 1339 | rBV2 | 32456 | 51279 | 2.88% | 0.265% |
| 22 | 11.242 | 1440 | 1446 | 1455 | rBV5 | 3102 | 6669 | 0.37% | 0.034% |
| 23 | 12.036 | 1576 | 1581 | 1585 | rBV2 | 5212 | 7900 | 0.44% | 0.041% |
| 24 | 12.924 | 1728 | 1732 | 1737 | rVB | 4463 | 5674 | 0.32% | 0.029% |
| 25 | 13.148 | 1766 | 1770 | 1773 | rVB3 | 4107 | 5706 | 0.32% | 0.029% |
| 26 | 13.224 | 1778 | 1783 | 1787 | rVB3 | 2032 | 3458 | 0.19% | 0.018% |
| 27 | 13.718 | 1859 | 1867 | 1871 | rBV | 722220 | 1016314 | 57.12% | 5.245% |
| 28 | 13.760 | 1871 | 1874 | 1880 | rVB | 88017 | 115001 | 6.46% | 0.594% |
| 29 | 13.989 | 1906 | 1913 | 1922 | rBV | 801253 | 1139156 | 64.02% | 5.879% |
| 30 | 14.242 | 1952 | 1956 | 1960 | rVB3 | 1605 | 2625 | 0.15% | 0.014% |
| 31 | 14.301 | 1960 | 1966 | 1974 | rBV | 501024 | 717348 | 40.32% | 3.702% |
| 32 | 14.483 | 1992 | 1997 | 2007 | rBV | 91539 | 134763 | 7.57% | 0.695% |
| 33 | 14.742 | 2035 | 2041 | 2043 | rBV4 | 3036 | 4200 | 0.24% | 0.022% |
| 34 | 14.871 | 2059 | 2063 | 2068 | rVB4 | 1756 | 3109 | 0.17% | 0.016% |

LSC Area Percent Report

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Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

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-BM072720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 15.136 | 2103 | 2108 | 2112 | rBV4 | 3407 | 5183 | 0.29% | 0.027% |
| 36 | 15.201 | 2114 | 2119 | 2121 | rVB2 | 1834 | 2569 | 0.14% | 0.013% |
| 37 | 15.295 | 2129 | 2135 | 2146 | rBV | 995848 | 1422697 | 79.96% | 7.342% |
| 38 | 15.407 | 2148 | 2154 | 2165 | rBV | 287190 | 380585 | 21.39% | 1.964% |
| 39 | 15.536 | 2172 | 2176 | 2181 | rVB3 | 8837 | 12948 | 0.73% | 0.067% |
| 40 | 15.942 | 2242 | 2245 | 2249 | rBV3 | 2127 | 3129 | 0.18% | 0.016% |
| 41 | 15.995 | 2249 | 2254 | 2256 | rBV4 | 2067 | 3177 | 0.18% | 0.016% |
| 42 | 16.048 | 2260 | 2263 | 2266 | rBV4 | 1938 | 3056 | 0.17% | 0.016% |
| 43 | 16.083 | 2266 | 2269 | 2273 | rVV4 | 3061 | 3497 | 0.20% | 0.018% |
| 44 | 16.212 | 2289 | 2291 | 2294 | rVB3 | 3053 | 3670 | 0.21% | 0.019% |
| 45 | 16.277 | 2298 | 2302 | 2305 | rBV4 | 1682 | 2181 | 0.12% | 0.011% |
| 46 | 16.318 | 2305 | 2309 | 2313 | rVB2 | 8261 | 11518 | 0.65% | 0.059% |
| 47 | 16.477 | 2331 | 2336 | 2340 | rVB5 | 3988 | 7132 | 0.40% | 0.037% |
| 48 | 16.524 | 2340 | 2344 | 2345 | rBV2 | 2073 | 1927 | 0.11% | 0.010% |
| 49 | 16.818 | 2389 | 2394 | 2397 | rBV5 | 2810 | 5461 | 0.31% | 0.028% |
| 50 | 16.842 | 2397 | 2398 | 2405 | rVB3 | 2487 | 2295 | 0.13% | 0.012% |
| 51 | 17.042 | 2426 | 2432 | 2438 | rVV | 605204 | 833842 | 46.86% | 4.303% |
| 52 | 17.083 | 2438 | 2439 | 2443 | rVV4 | 2045 | 2667 | 0.15% | 0.014% |
| 53 | 17.142 | 2443 | 2449 | 2461 | rVB2 | 989435 | 1348181 | 75.77% | 6.958% |
| 54 | 17.218 | 2461 | 2462 | 2465 | rBV3 | 2618 | 2538 | 0.14% | 0.013% |
| 55 | 17.306 | 2474 | 2477 | 2478 | rBV3 | 2380 | 2612 | 0.15% | 0.013% |
| 56 | 17.448 | 2498 | 2501 | 2505 | rBV5 | 3879 | 5272 | 0.30% | 0.027% |
| 57 | 17.724 | 2546 | 2548 | 2550 | rBV3 | 2247 | 2121 | 0.12% | 0.011% |
| 58 | 17.842 | 2563 | 2568 | 2569 | rBV5 | 2520 | 2690 | 0.15% | 0.014% |
| 59 | 17.965 | 2584 | 2589 | 2598 | rBV2 | 110136 | 156588 | 8.80% | 0.808% |
| 60 | 18.024 | 2598 | 2599 | 2605 | rVB5 | 4666 | 5943 | 0.33% | 0.031% |
| 61 | 18.148 | 2615 | 2620 | 2623 | rBV7 | 3214 | 5933 | 0.33% | 0.031% |
| 62 | 18.242 | 2634 | 2636 | 2638 | rBV2 | 4069 | 4829 | 0.27% | 0.025% |
| 63 | 18.265 | 2638 | 2640 | 2645 | rVB5 | 10349 | 15191 | 0.85% | 0.078% |
| 64 | 18.418 | 2662 | 2666 | 2671 | rVB4 | 11734 | 15670 | 0.88% | 0.081% |
| 65 | 18.483 | 2673 | 2677 | 2680 | rBV2 | 6769 | 7701 | 0.43% | 0.040% |
| 66 | 18.577 | 2687 | 2693 | 2698 | rBV7 | 7300 | 11926 | 0.67% | 0.062% |
| 67 | 18.742 | 2717 | 2721 | 2725 | rBV | 58408 | 76842 | 4.32% | 0.397% |
| 68 | 18.836 | 2733 | 2737 | 2741 | rVB5 | 31073 | 40219 | 2.26% | 0.208% |
| 69 | 18.900 | 2745 | 2748 | 2749 | rBV3 | 5253 | 4925 | 0.28% | 0.025% |
| 70 | 18.924 | 2750 | 2752 | 2757 | rVB4 | 7847 | 7141 | 0.40% | 0.037% |
| 71 | 19.000 | 2760 | 2765 | 2770 | rBV7 | 4603 | 8808 | 0.50% | 0.045% |

LSC Area Percent Report

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Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

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-BM072720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 19.059 | 2770 | 2775 | 2780 | rBV3 | 28187 | 51174 | 2.88% | 0.264% |
| 73 | 19.100 | 2780 | 2782 | 2785 | rVV3 | 9728 | 10179 | 0.57% | 0.053% |
| 74 | 19.147 | 2787 | 2790 | 2799 | rVB9 | 12722 | 21876 | 1.23% | 0.113% |
| 75 | 19.253 | 2803 | 2808 | 2815 | rBV | 64767 | 86746 | 4.88% | 0.448% |
| 76 | 19.324 | 2815 | 2820 | 2826 | rVB3 | 14060 | 21299 | 1.20% | 0.110% |
| 77 | 19.383 | 2828 | 2830 | 2834 | rBV4 | 6052 | 5513 | 0.31% | 0.028% |
| 78 | 19.442 | 2834 | 2840 | 2846 | rBV | 1308822 | 1779313 | 100.00% | 9.183% |
| 79 | 19.818 | 2902 | 2904 | 2905 | rBV | 3330 | 2448 | 0.14% | 0.013% |
| 80 | 19.900 | 2916 | 2918 | 2920 | rBV3 | 2808 | 3736 | 0.21% | 0.019% |
| 81 | 19.953 | 2926 | 2927 | 2928 | rBV | 3534 | 1850 | 0.10% | 0.010% |
| 82 | 19.983 | 2929 | 2932 | 2935 | rVV5 | 5923 | 8164 | 0.46% | 0.042% |
| 83 | 20.077 | 2946 | 2948 | 2951 | rBV4 | 3561 | 3677 | 0.21% | 0.019% |
| 84 | 20.400 | 3001 | 3003 | 3005 | rVB3 | 7399 | 5039 | 0.28% | 0.026% |
| 85 | 20.477 | 3013 | 3016 | 3022 | rVV4 | 14899 | 18969 | 1.07% | 0.098% |
| 86 | 20.524 | 3022 | 3024 | 3027 | rVB4 | 9126 | 7221 | 0.41% | 0.037% |
| 87 | 20.606 | 3034 | 3038 | 3043 | rBV | 59910 | 83266 | 4.68% | 0.430% |
| 88 | 20.653 | 3043 | 3046 | 3050 | rVB2 | 25203 | 31448 | 1.77% | 0.162% |
| 89 | 20.936 | 3092 | 3094 | 3097 | rBV2 | 16042 | 13854 | 0.78% | 0.071% |
| 90 | 20.977 | 3097 | 3101 | 3109 | rBV | 152639 | 193895 | 10.90% | 1.001% |
| 91 | 21.230 | 3139 | 3144 | 3156 | rBV | 794446 | 1012996 | 56.93% | 5.228% |
| 92 | 21.424 | 3175 | 3177 | 3182 | rVB4 | 16174 | 15973 | 0.90% | 0.082% |
| 93 | 21.859 | 3249 | 3251 | 3256 | rVB4 | 26107 | 30212 | 1.70% | 0.156% |
| 94 | 22.165 | 3300 | 3303 | 3308 | rVB2 | 42816 | 54414 | 3.06% | 0.281% |
| 95 | 22.324 | 3327 | 3330 | 3338 | rVB5 | 27410 | 38675 | 2.17% | 0.200% |
| 96 | 22.830 | 3413 | 3416 | 3423 | rVB3 | 36532 | 52775 | 2.97% | 0.272% |
| 97 | 23.300 | 3490 | 3496 | 3507 | rVB | 897289 | 1523577 | 85.63% | 7.863% |
| 98 | 23.394 | 3508 | 3512 | 3514 | rVV4 | 45514 | 71576 | 4.02% | 0.369% |
| 99 | 23.441 | 3514 | 3520 | 3530 | rVB2 | 547899 | 1035344 | 58.19% | 5.343% |

Sum of corrected areas: 19376510

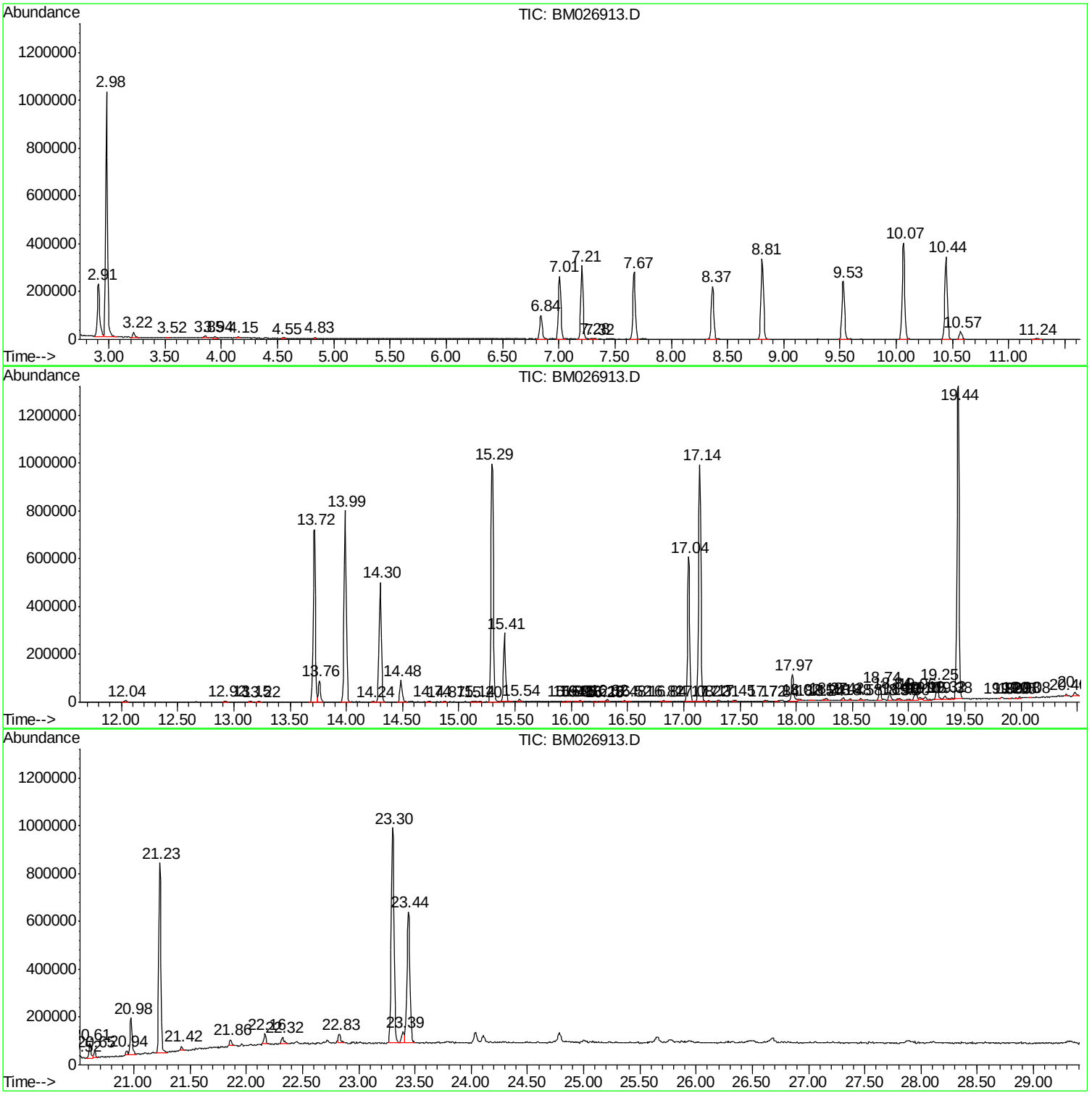
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

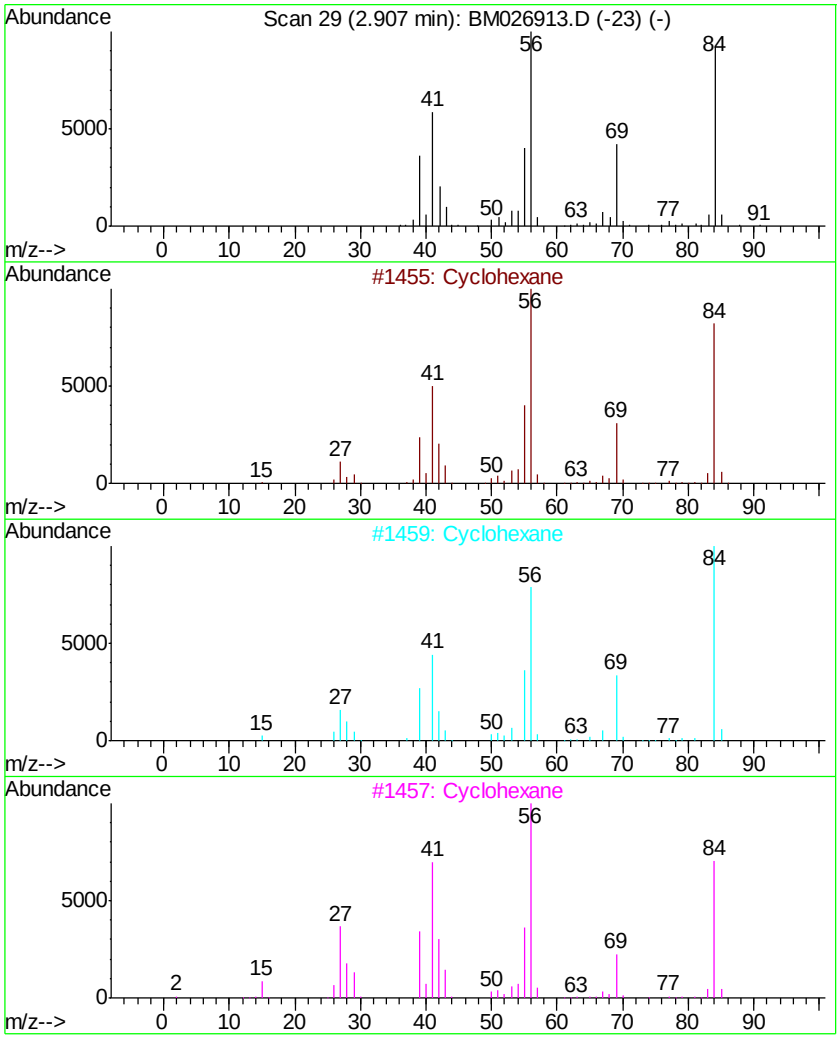
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

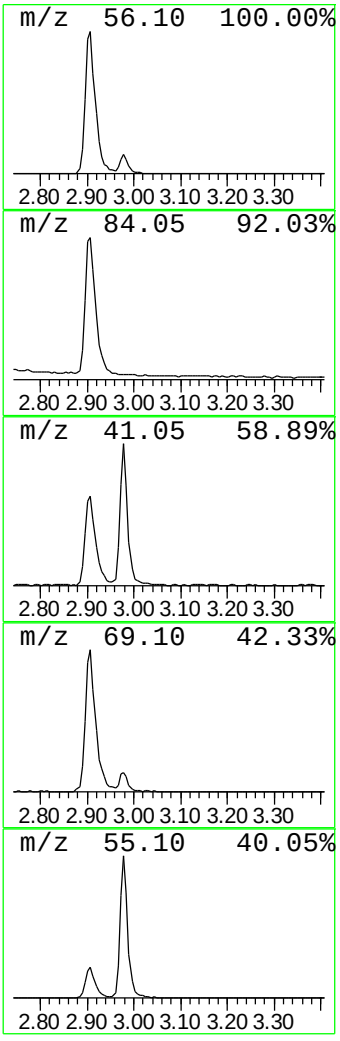
**********

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.91 | 15.58 ng/ul | 341947 | 1,4-Dichlorobenzene-d4 | 7.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 94 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 91 |
| 3 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 87 |
| 4 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 80 |
| 5 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 80 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

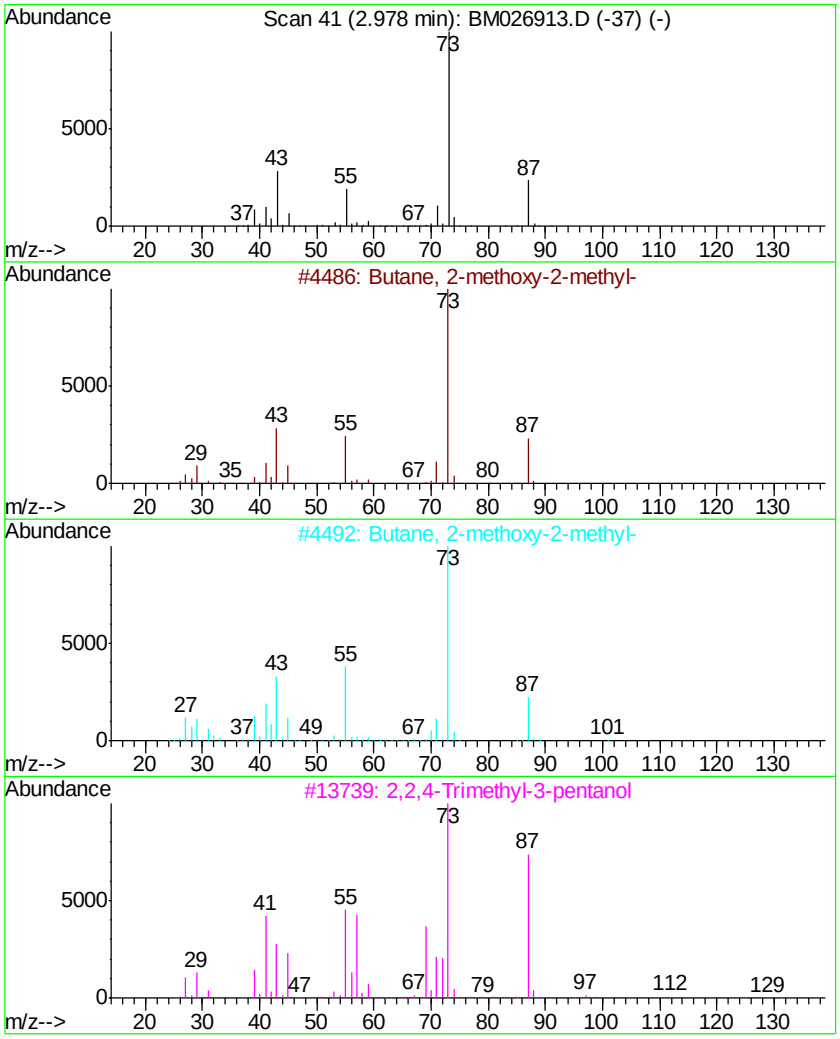
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

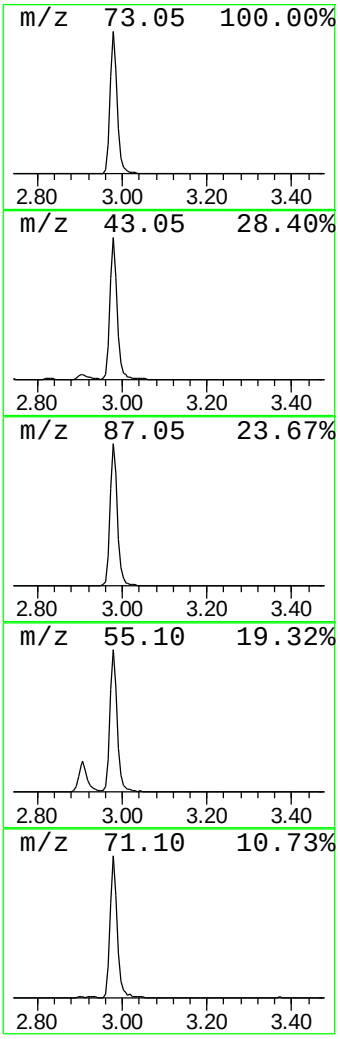
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.98 | 53.67 ng/ul | 1177990 | 1,4-Dichlorobenzene-d4 | 7.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 74 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 56 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

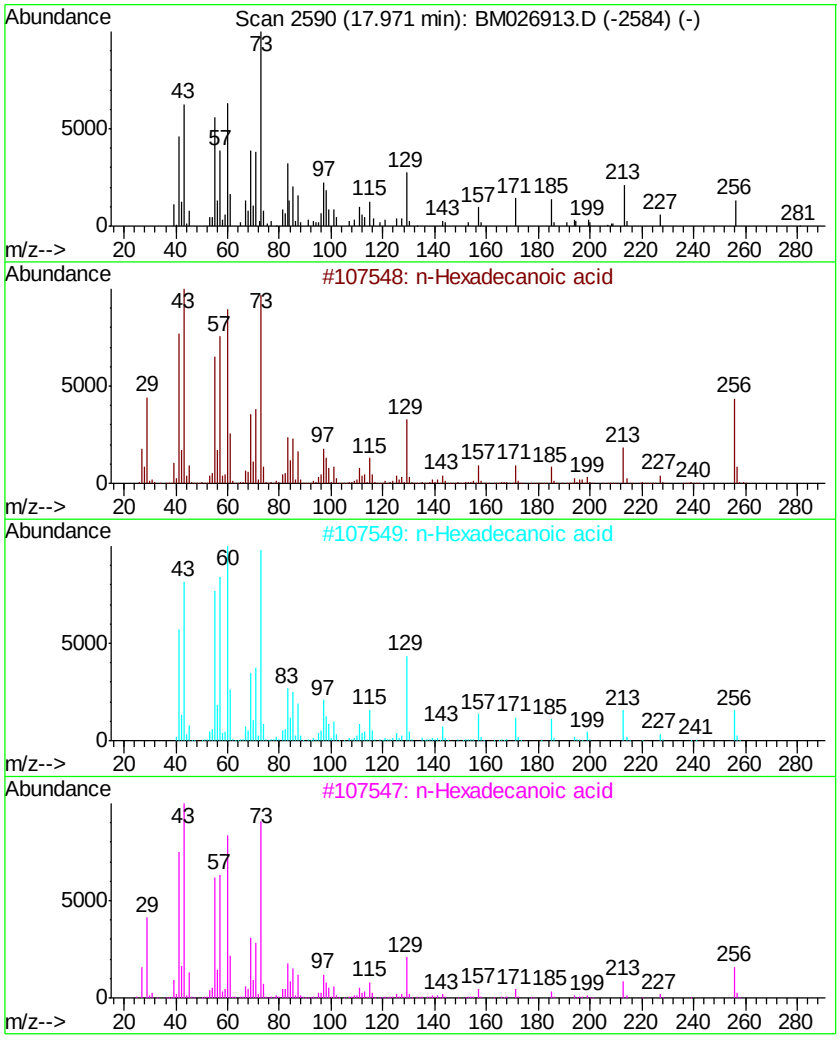
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

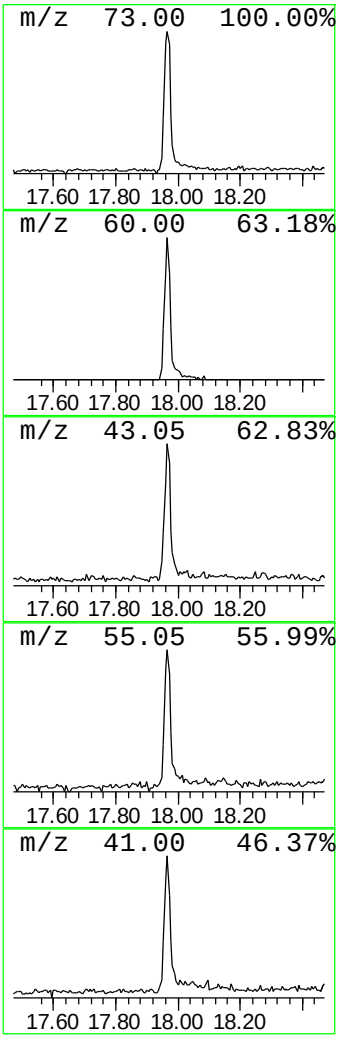
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 3.76 ng/ul | 156588 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

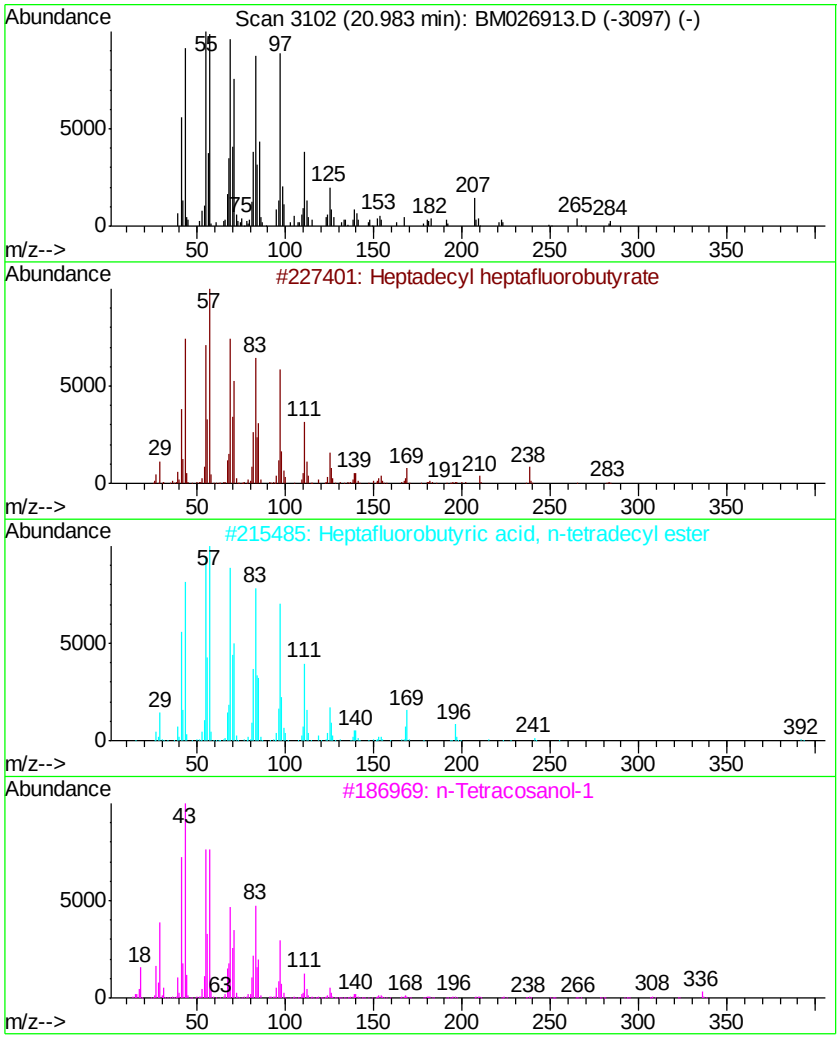
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

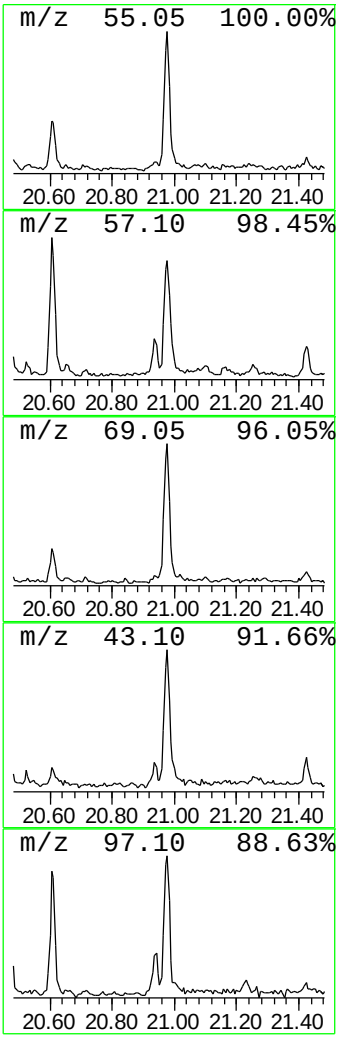
**********

Peak Number 4 Heptadecyl heptafluorobutyrate Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.98 | 3.83 ng/ul | 193895 | Chrysene-d12 | 21.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 93 |
| 2 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 93 |
| 3 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 91 |
| 4 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91 |
| 5 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM072820\
Data File : BM026913.D
Acq On : 29 Jul 2020 05:22
Operator : JU/CG
Sample : L3443-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA 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 |
| (DEL) Alkane: Str... | 2.91 | 15.6 | ng/ul | 341947 | 1 | 7.67 | 438941 | 20.0 |
| Butane, 2-methoxy... | 2.98 | 53.7 | ng/ul | 1177990 | 1 | 7.67 | 438941 | 20.0 |
| n-Hexadecanoic acid | 17.97 | 3.8 | ng/ul | 156588 | 4 | 17.04 | 833842 | 20.0 |
| Heptadecyl heptaf... | 20.98 | 3.8 | ng/ul | 193895 | 5 | 21.23 | 1013000 | 20.0 |