LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.252 | 378 | 385 | 405 | rBV | 5685465 | 8096878 | 68.28% | 7.223% |
| 2 | 6.834 | 647 | 654 | 670 | rBV | 5717195 | 9438555 | 79.59% | 8.420% |
| 3 | 7.187 | 706 | 714 | 726 | rBV | 6151728 | 9546877 | 80.50% | 8.516% |
| 4 | 7.646 | 786 | 792 | 805 | rBV | 977166 | 1568867 | 13.23% | 1.400% |
| 5 | 7.963 | 839 | 846 | 856 | rVB | 3903412 | 6067109 | 51.16% | 5.412% |
| 6 | 8.822 | 982 | 992 | 1005 | rBV | 3330786 | 5703933 | 48.10% | 5.088% |
| 7 | 10.434 | 1259 | 1266 | 1272 | rBV | 1386914 | 2344117 | 19.77% | 2.091% |
| 8 | 12.322 | 1584 | 1587 | 1597 | rVB7 | 62266 | 122573 | 1.03% | 0.109% |
| 9 | 12.539 | 1620 | 1624 | 1633 | rVB | 100543 | 183230 | 1.55% | 0.163% |
| 10 | 12.804 | 1664 | 1669 | 1673 | rBV2 | 95604 | 155619 | 1.31% | 0.139% |
| 11 | 12.916 | 1681 | 1688 | 1695 | rBV | 7453634 | 10673517 | 90.00% | 9.522% |
| 12 | 13.122 | 1719 | 1723 | 1727 | rVB2 | 85179 | 121351 | 1.02% | 0.108% |
| 13 | 13.492 | 1782 | 1786 | 1791 | rBV2 | 76599 | 130162 | 1.10% | 0.116% |
| 14 | 13.763 | 1827 | 1832 | 1837 | rBV2 | 802044 | 1186093 | 10.00% | 1.058% |
| 15 | 14.110 | 1888 | 1891 | 1897 | rVB4 | 107298 | 207760 | 1.75% | 0.185% |
| 16 | 14.251 | 1912 | 1915 | 1917 | rBV | 100798 | 125305 | 1.06% | 0.112% |
| 17 | 14.304 | 1918 | 1924 | 1932 | rVB2 | 2163980 | 3412017 | 28.77% | 3.044% |
| 18 | 14.616 | 1974 | 1977 | 1983 | rVB5 | 101062 | 139018 | 1.17% | 0.124% |
| 19 | 14.810 | 2006 | 2010 | 2014 | rVB3 | 102166 | 152057 | 1.28% | 0.136% |
| 20 | 15.804 | 2173 | 2179 | 2190 | rBV | 7951410 | 10991464 | 92.68% | 9.805% |
| 21 | 16.021 | 2213 | 2216 | 2222 | rBV2 | 147825 | 201548 | 1.70% | 0.180% |
| 22 | 16.663 | 2321 | 2325 | 2330 | rVB | 261885 | 350167 | 2.95% | 0.312% |
| 23 | 16.939 | 2369 | 2372 | 2375 | rBV3 | 118770 | 195664 | 1.65% | 0.175% |
| 24 | 16.974 | 2375 | 2378 | 2386 | rVB | 308792 | 496515 | 4.19% | 0.443% |
| 25 | 17.057 | 2386 | 2392 | 2399 | rBV | 2775477 | 4078125 | 34.39% | 3.638% |
| 26 | 17.433 | 2453 | 2456 | 2461 | rBV4 | 182461 | 323630 | 2.73% | 0.289% |
| 27 | 17.492 | 2462 | 2466 | 2472 | rVV6 | 430125 | 758802 | 6.40% | 0.677% |
| 28 | 17.551 | 2473 | 2476 | 2482 | rVB | 363231 | 492926 | 4.16% | 0.440% |
| 29 | 17.615 | 2484 | 2487 | 2492 | rVB4 | 161931 | 235440 | 1.99% | 0.210% |
| 30 | 17.727 | 2502 | 2506 | 2511 | rVB | 1122095 | 1474814 | 12.44% | 1.316% |
| 31 | 17.892 | 2531 | 2534 | 2539 | rBV2 | 279988 | 342358 | 2.89% | 0.305% |
| 32 | 17.951 | 2540 | 2544 | 2549 | rBV | 607937 | 919862 | 7.76% | 0.821% |
| 33 | 17.992 | 2549 | 2551 | 2554 | rVB4 | 168656 | 191438 | 1.61% | 0.171% |
| 34 | 18.062 | 2559 | 2563 | 2569 | rVV3 | 555178 | 885080 | 7.46% | 0.790% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 18.121 | 2570 | 2573 | 2587 | rVB2 | 480326 | 933850 | 7.87% | 0.833% |
| 36 | 18.239 | 2588 | 2593 | 2603 | rVB2 | 906464 | 1694350 | 14.29% | 1.511% |
| 37 | 18.333 | 2604 | 2609 | 2615 | rBV3 | 747807 | 1445230 | 12.19% | 1.289% |
| 38 | 18.486 | 2631 | 2635 | 2637 | rBV2 | 386225 | 552846 | 4.66% | 0.493% |
| 39 | 18.515 | 2637 | 2640 | 2645 | rVB | 1280649 | 1586003 | 13.37% | 1.415% |
| 40 | 18.798 | 2684 | 2688 | 2696 | rVB4 | 304463 | 682219 | 5.75% | 0.609% |
| 41 | 19.168 | 2748 | 2751 | 2755 | rVB3 | 185566 | 247189 | 2.08% | 0.221% |
| 42 | 19.262 | 2764 | 2767 | 2771 | rVB | 280005 | 320870 | 2.71% | 0.286% |
| 43 | 19.392 | 2787 | 2789 | 2794 | rVB | 236217 | 279176 | 2.35% | 0.249% |
| 44 | 19.645 | 2828 | 2832 | 2835 | rBV | 480380 | 598622 | 5.05% | 0.534% |
| 45 | 19.698 | 2835 | 2841 | 2853 | rVB | 9871441 | 11859163 | 100.00% | 10.579% |
| 46 | 20.956 | 3052 | 3055 | 3063 | rVB | 960822 | 1377922 | 11.62% | 1.229% |
| 47 | 21.098 | 3076 | 3079 | 3083 | rBV2 | 209172 | 234697 | 1.98% | 0.209% |
| 48 | 21.203 | 3093 | 3097 | 3101 | rBV2 | 1161302 | 1432903 | 12.08% | 1.278% |
| 49 | 21.256 | 3101 | 3106 | 3114 | rVB | 2564987 | 3188626 | 26.89% | 2.844% |
| 50 | 21.574 | 3158 | 3160 | 3169 | rVB2 | 252573 | 282919 | 2.39% | 0.252% |
| 51 | 21.850 | 3204 | 3207 | 3216 | rVB | 381620 | 556649 | 4.69% | 0.497% |
| 52 | 22.509 | 3317 | 3319 | 3324 | rVB2 | 197648 | 240124 | 2.02% | 0.214% |
| 53 | 22.780 | 3362 | 3365 | 3370 | rVB | 305987 | 409826 | 3.46% | 0.366% |
| 54 | 23.492 | 3480 | 3486 | 3499 | rVB2 | 1471042 | 2863022 | 24.14% | 2.554% |

Sum of corrected areas: 112099077

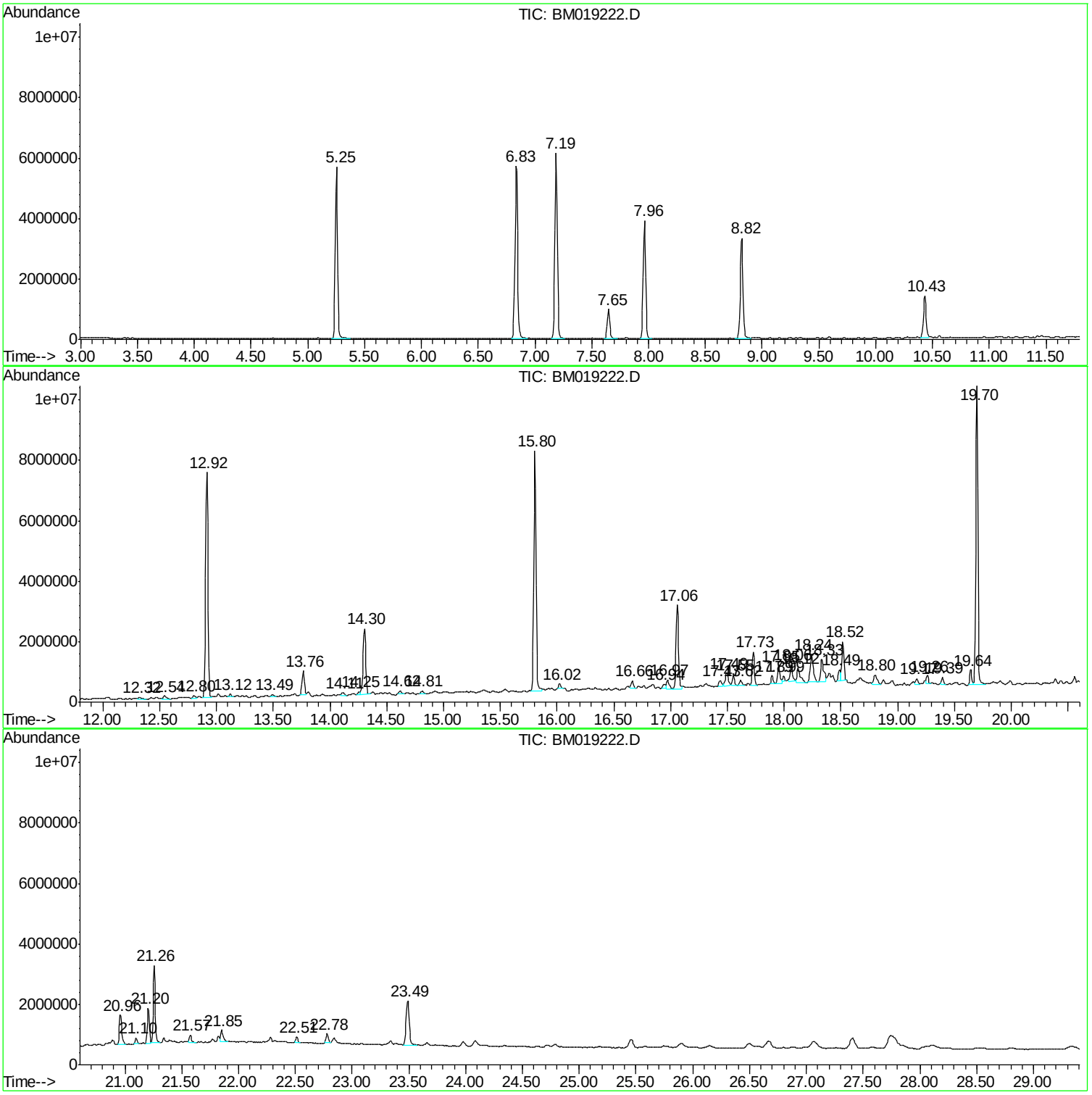
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

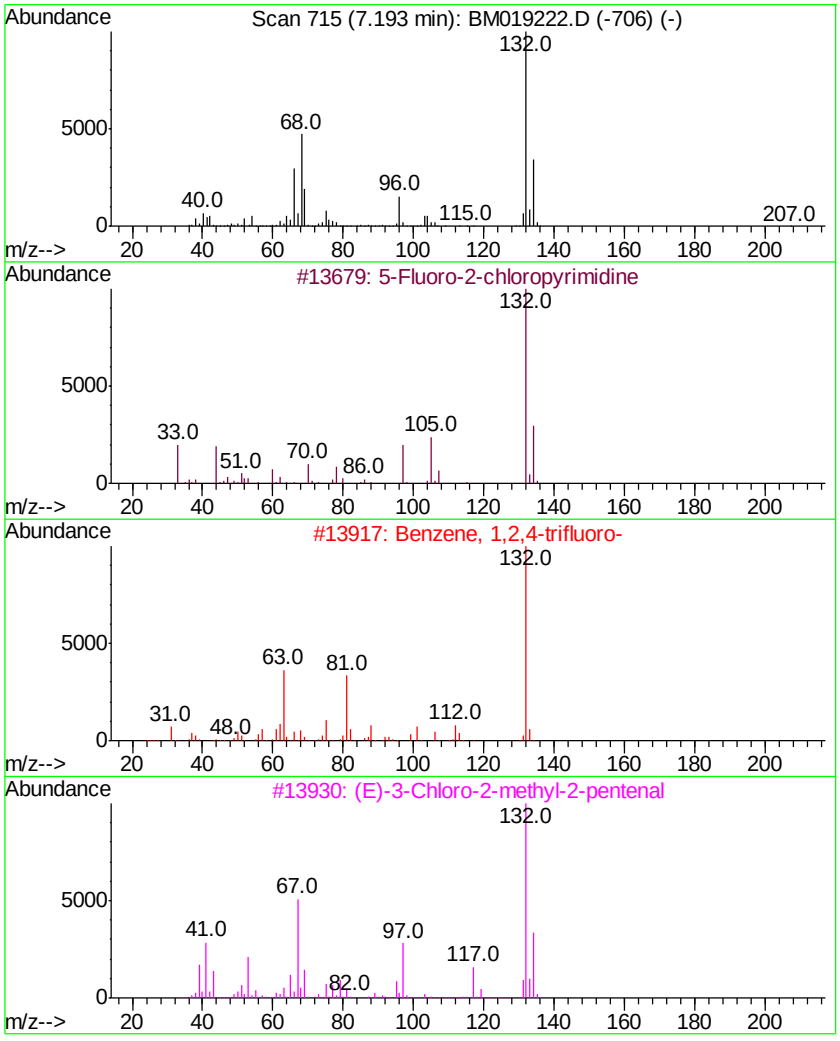
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

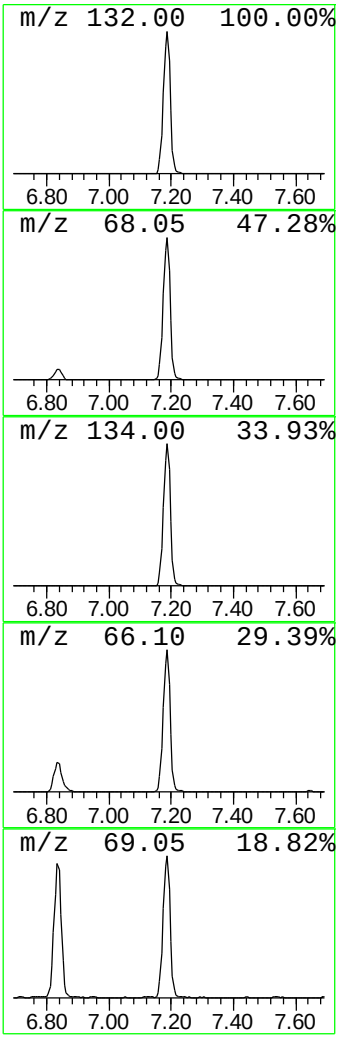
**********

Peak Number 1 unknown7.19 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.19 | 121.70 ng | 9546880 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 2 | Benzene, 1,2,4-trifluoro- | 132 | C6H3F3 | 000367-23-7 | 9 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

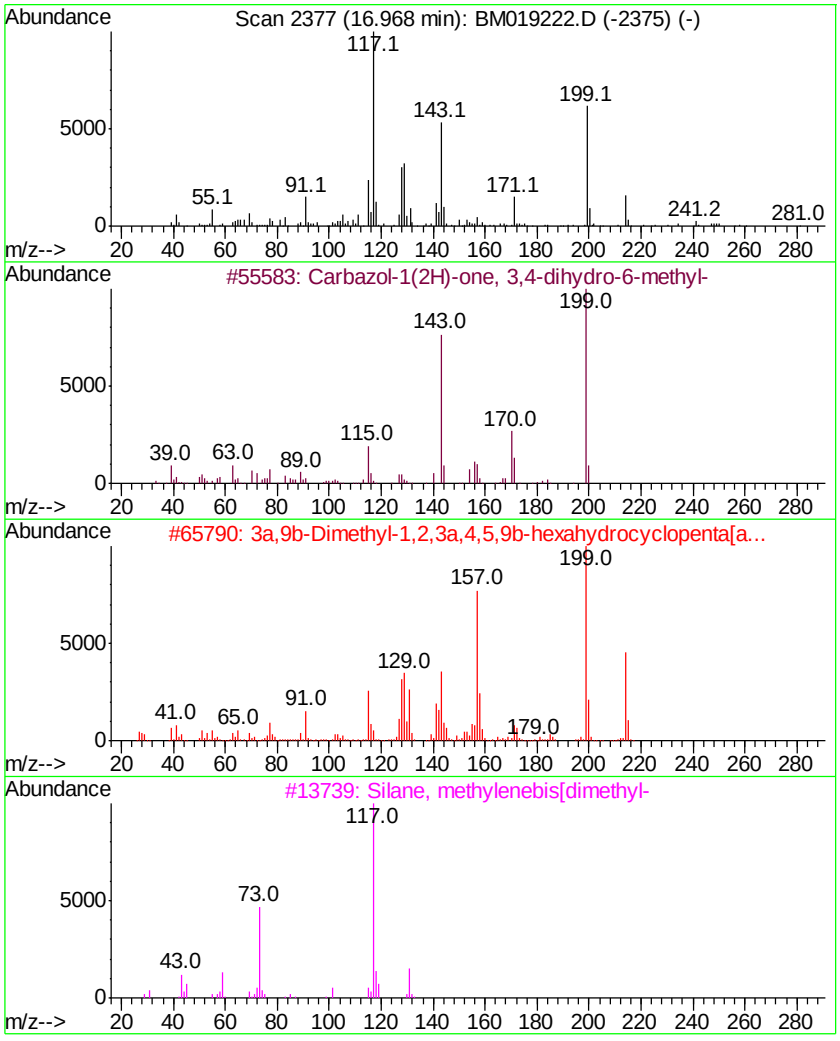
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

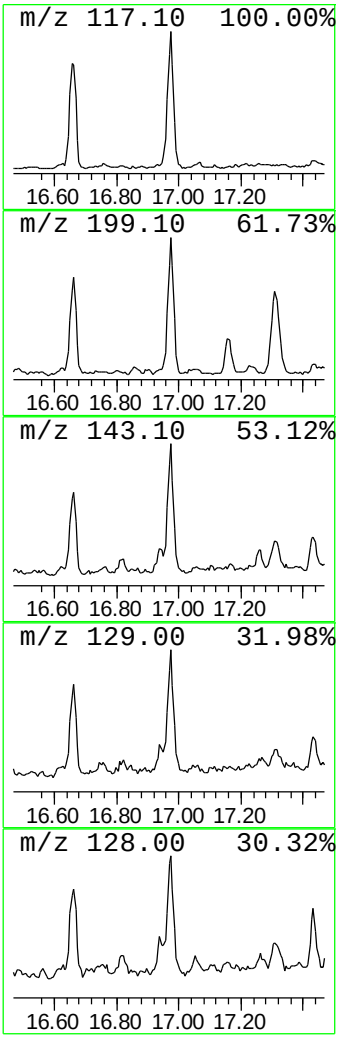
**********

Peak Number 3 unknown16.97 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.97 | 2.44 ng | 496515 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbazol-1(2H)-one, 3,4-dihydro-... | 199 | C13H13NO | 003449-48-7 | 30 |
| 2 | 3a,9b-Dimethyl-1,2,3a,4,5,9b-hex... | 214 | C15H18O | 076803-93-5 | 30 |
| 3 | Silane, methylenebis[dimethyl- | 132 | C5H16Si2 | 018163-84-3 | 22 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 22 |
| 5 | 5,6-Dimethyl-4-phenyl-2-pyridone | 199 | C13H13NO | 010354-07-1 | 15 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

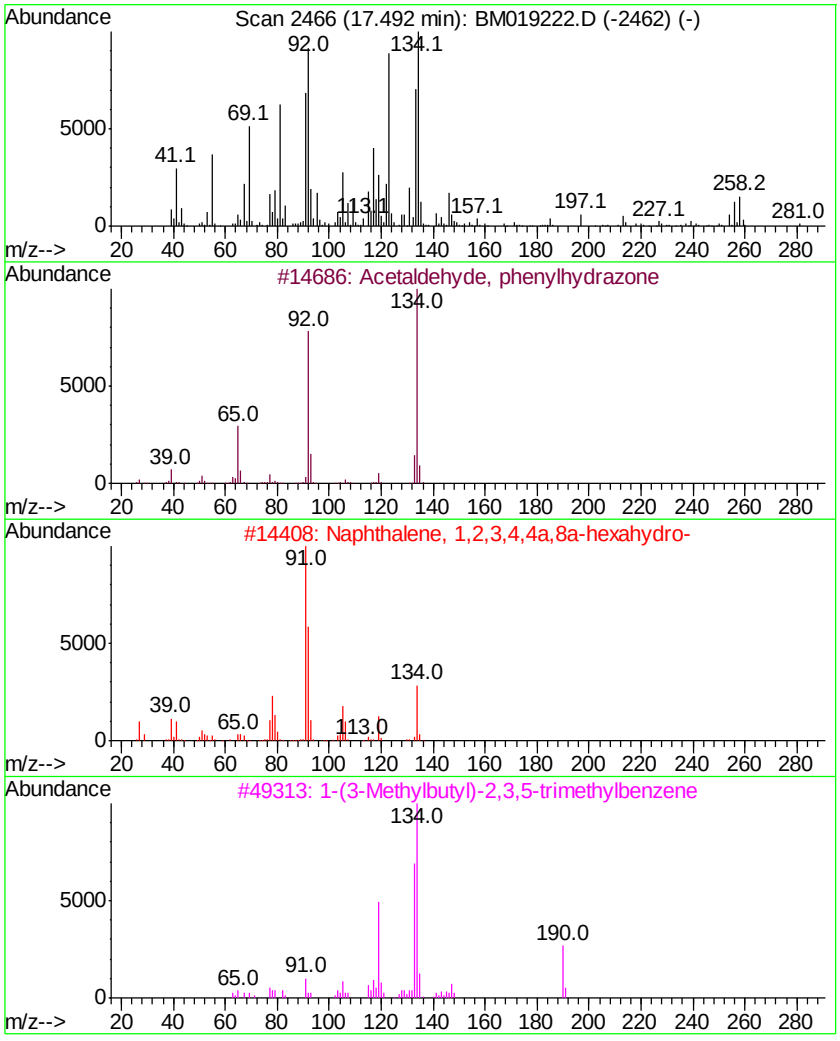
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

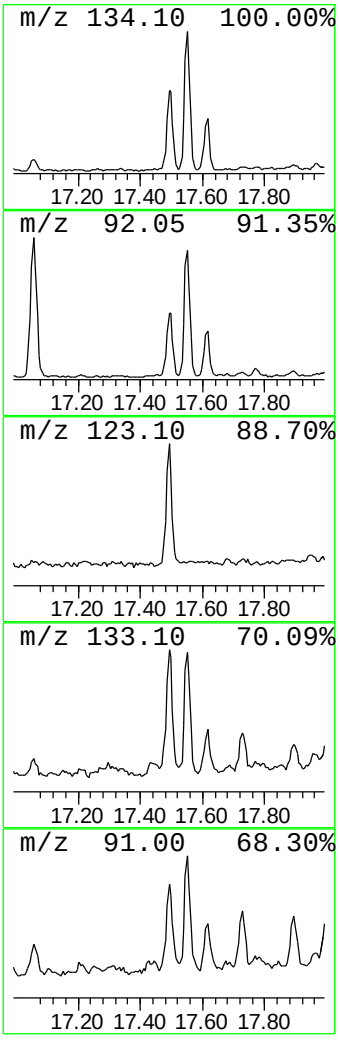
**********

Peak Number 4 unknown17.49 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.49 | 3.72 ng | 758802 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde, phenylhydrazone | 134 | C8H10N2 | 000935-07-9 | 30 |
| 2 | Naphthalene, 1,2,3,4,4a,8a-hexah... | 134 | C10H14 | 062690-62-4 | 22 |
| 3 | 1-(3-Methylbutyl)-2,3,5-trimethy... | 190 | C14H22 | 107997-60-4 | 22 |
| 4 | 5-Methylene-4,5,6,6a-tetrahydro-... | 134 | C9H10O | 1000193-02-7 | 20 |
| 5 | 2H-1-Benzopyran, 3,4-dihydro- | 134 | C9H10O | 000493-08-3 | 18 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

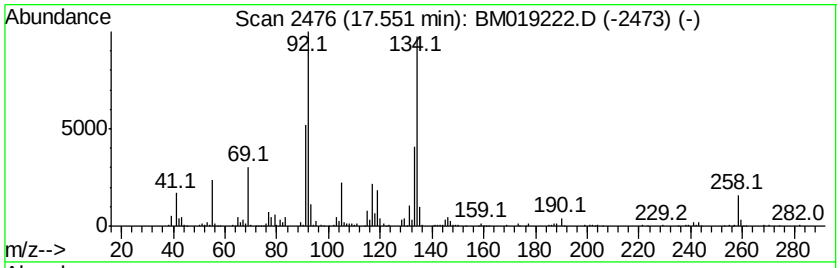
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

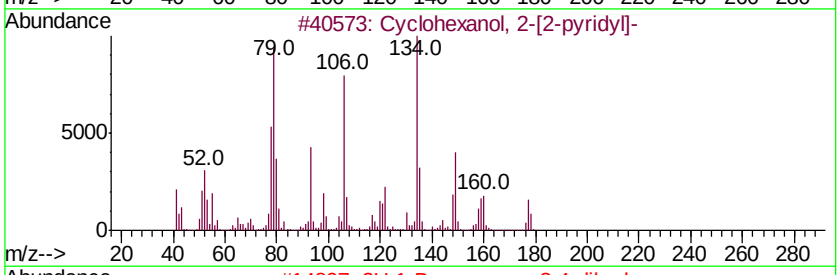
**********

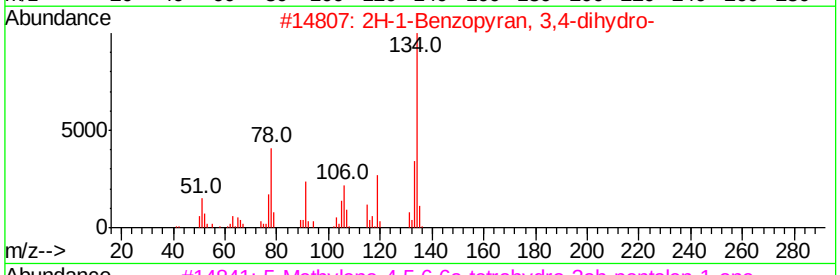
Peak Number 5 Cyclohexanol, 2-[2-pyridyl]- Concentration Rank 19

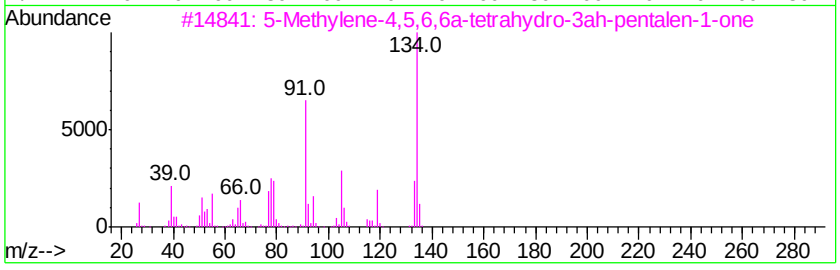
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.55 | 2.42 ng | 492926 | Phenanthrene-d10 | 17.06 |

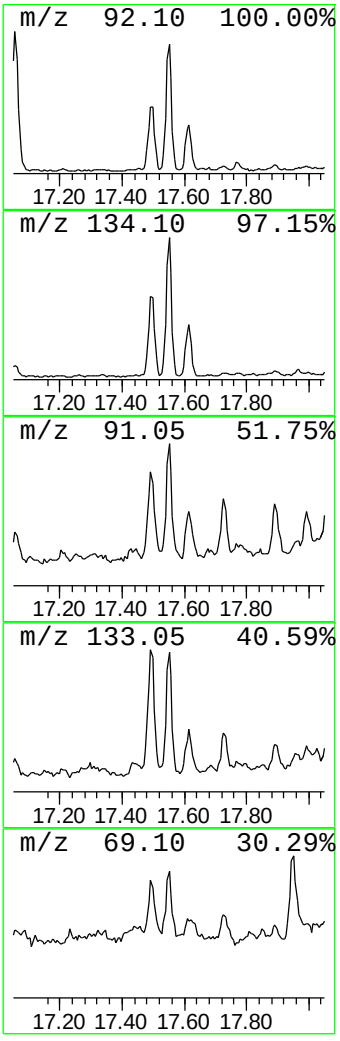
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanol, 2-[2-pyridyl]- | 177 | C11H15NO | 099858-60-3 | 60 |
| 2 | 2H-1-Benzopyran, 3,4-dihydro- | 134 | C9H10O | 000493-08-3 | 43 |
| 3 | 5-Methylene-4,5,6,6a-tetrahydro-... | 134 | C9H10O | 1000193-02-7 | 38 |
| 4 | Bicyclopentyl-1,1'-diene | 134 | C10H14 | 000934-02-1 | 38 |
| 5 | 5,6,7,8-Tetrahydroquinoxaline | 134 | C8H10N2 | 034413-35-9 | 35 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

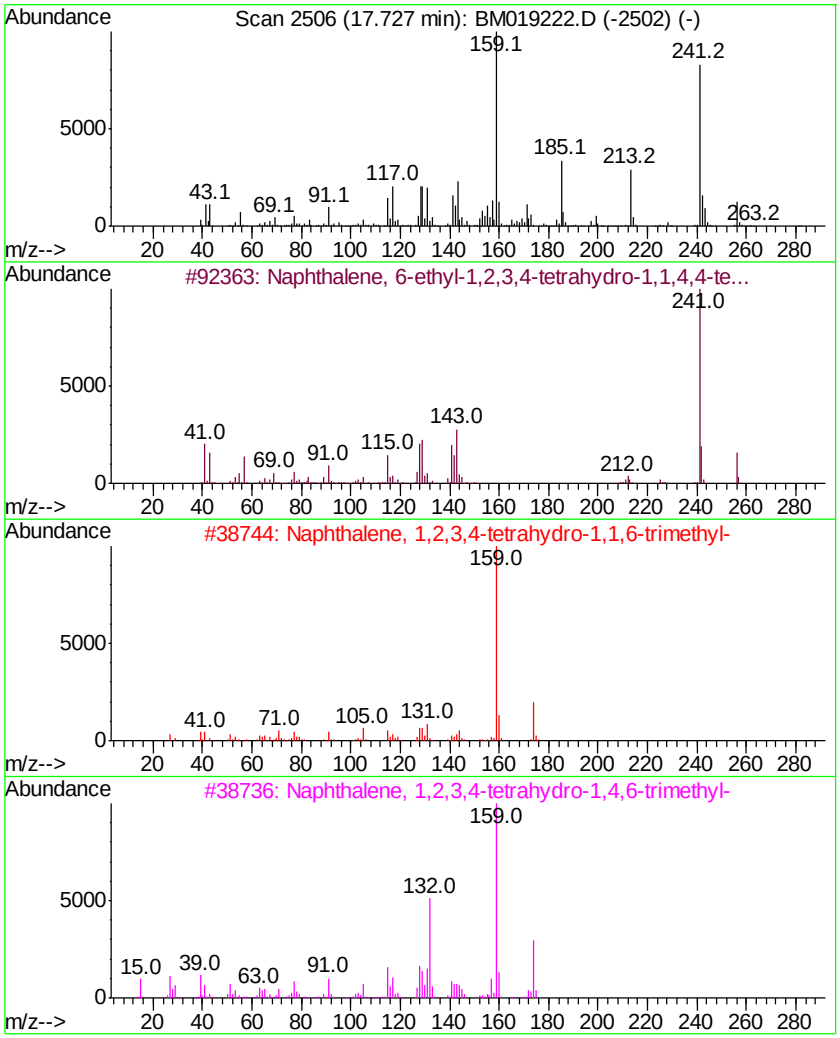
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

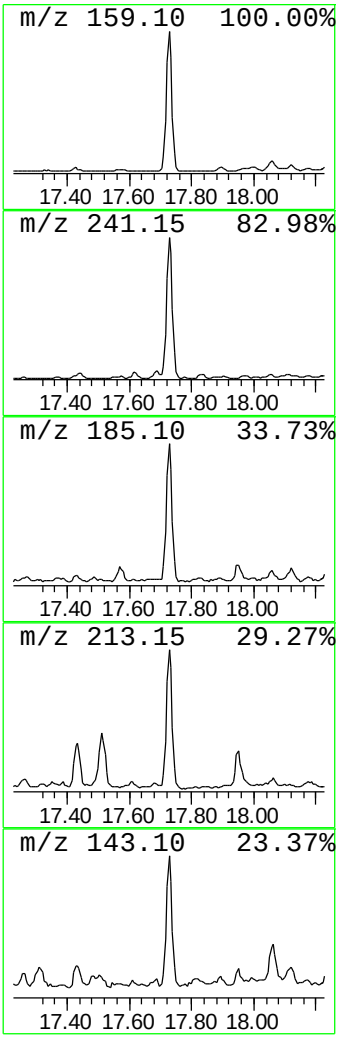
**********

Peak Number 6 Naphthalene, 6-ethyl-1,2,3,... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.73 | 7.23 ng | 1474810 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28 | 301643-35-6 | 64 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18 | 000475-03-6 | 38 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 174 | C13H18 | 022824-32-4 | 35 |
| 4 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 27 |
| 5 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1000212-95-2 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

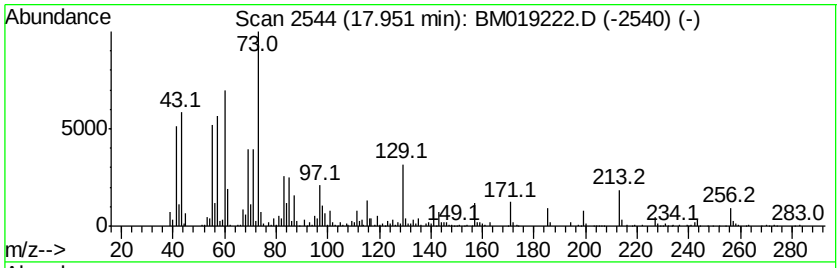
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

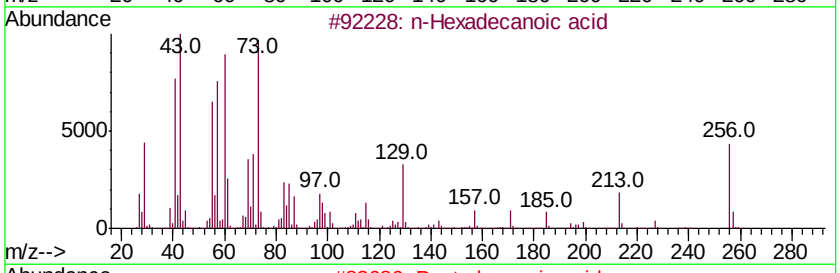
**********

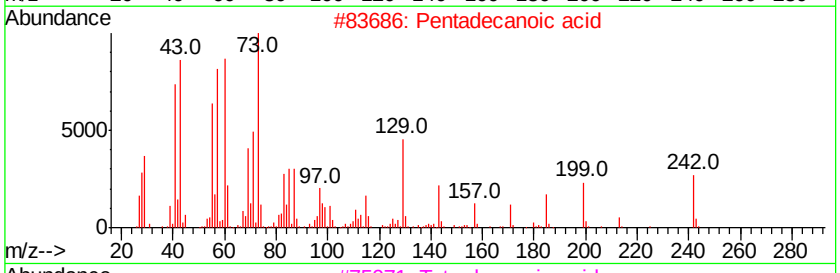
Peak Number 7 n-Hexadecanoic acid Concentration Rank 10

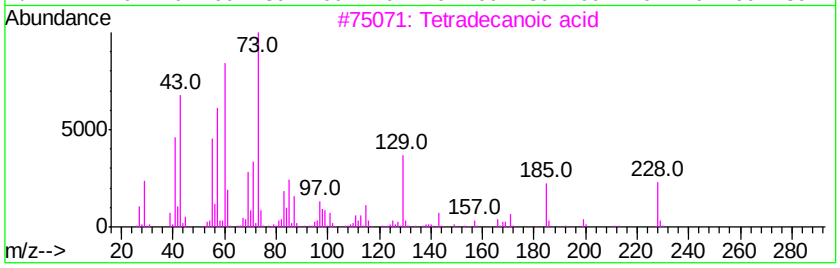
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.95 | 4.51 ng | 919862 | Phenanthrene-d10 | 17.06 |

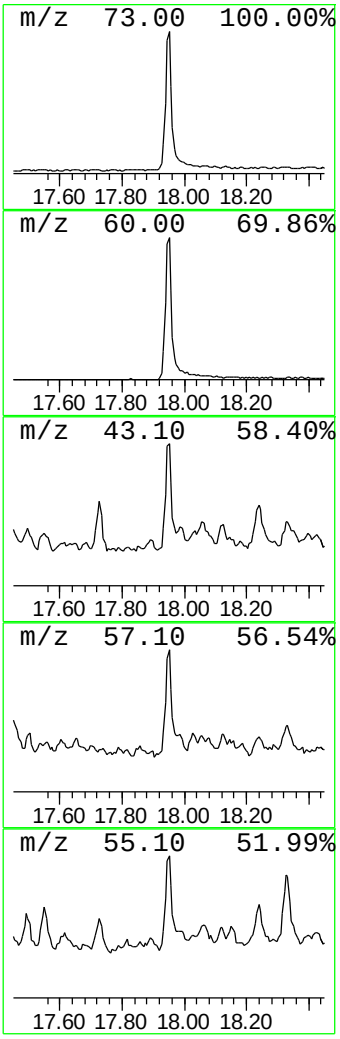
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 50 |
| 5 | 1-Iodo-2-methylnonane | 268 | C10H21I | 1000101-47-9 | 18 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

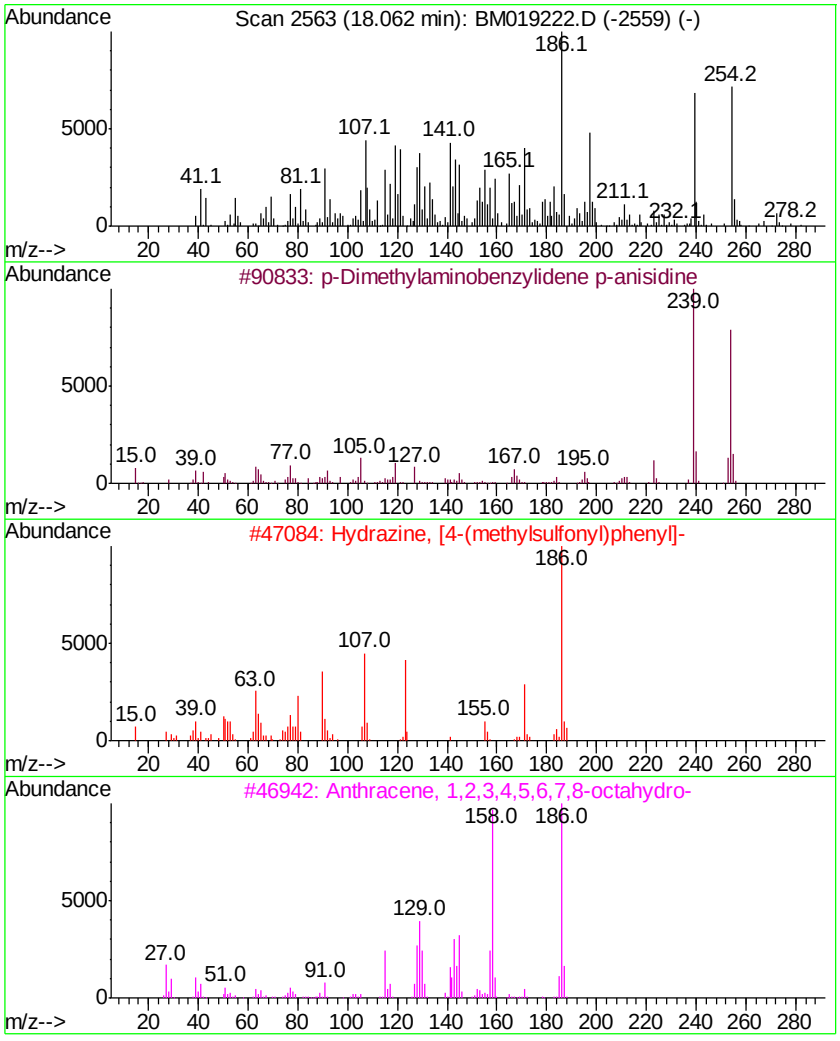
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

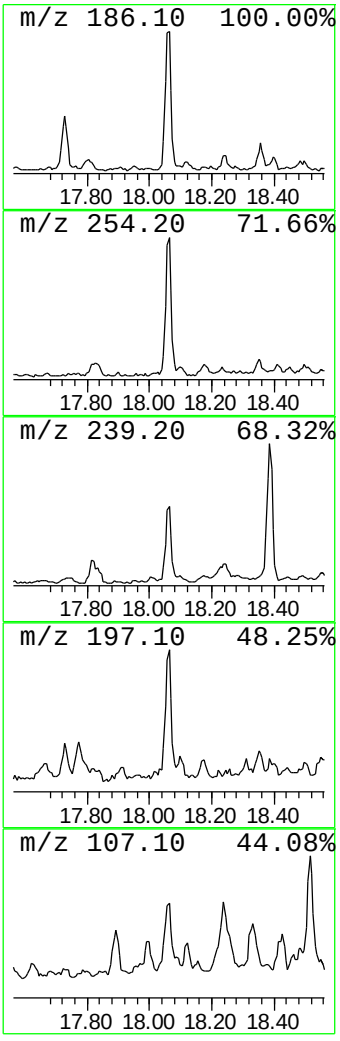
**********

Peak Number 8 p-Dimethylaminobenzylidene ... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.06 | 4.34 ng | 885080 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Dimethylaminobenzylidene p-ani... | 254 | C16H18N2O | 001749-04-8 | 56 |
| 2 | Hydrazine, [4-(methylsulfonyl)ph... | 186 | C7H10N2O2S | 000877-66-7 | 27 |
| 3 | Anthracene, 1,2,3,4,5,6,7,8-octa... | 186 | C14H18 | 001079-71-6 | 25 |
| 4 | Benzenamine, 3,5-dimethyl-5-nitr... | 254 | C16H18N2O | 295780-40-4 | 15 |
| 5 | 2-Ethylidene-hydrazono-3-methyl-... | 239 | C10H10ClN3S | 1000148-08-4 | 15 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

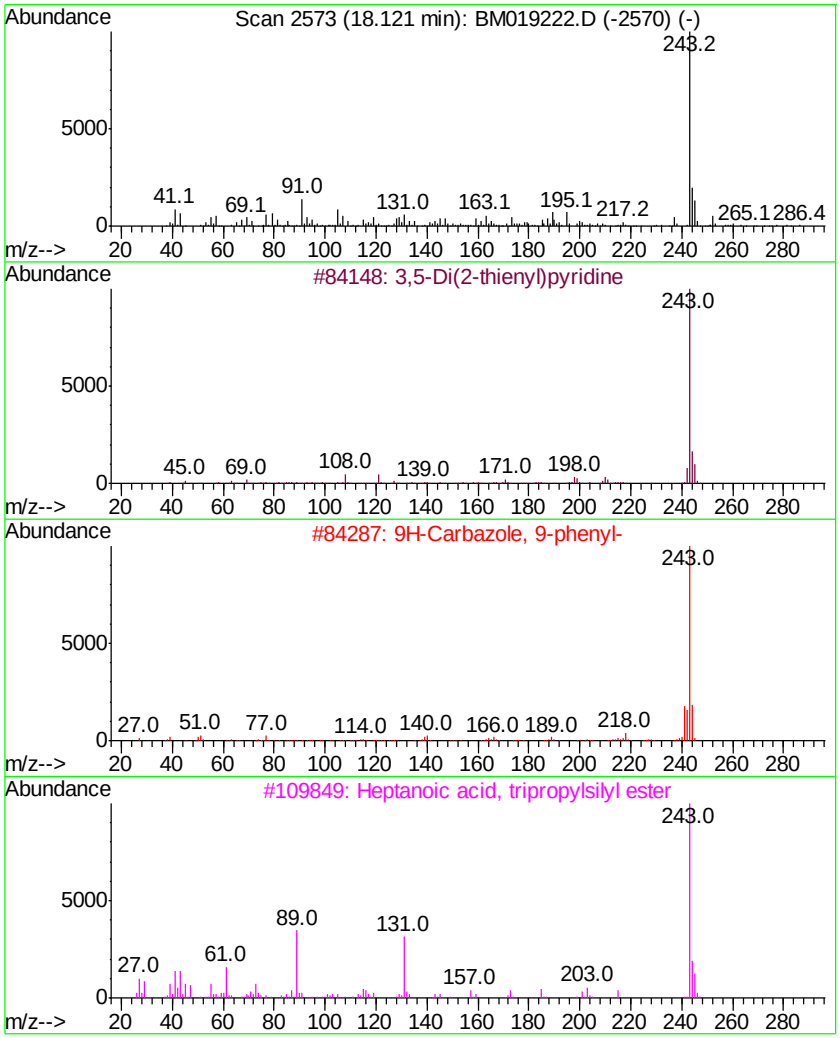
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

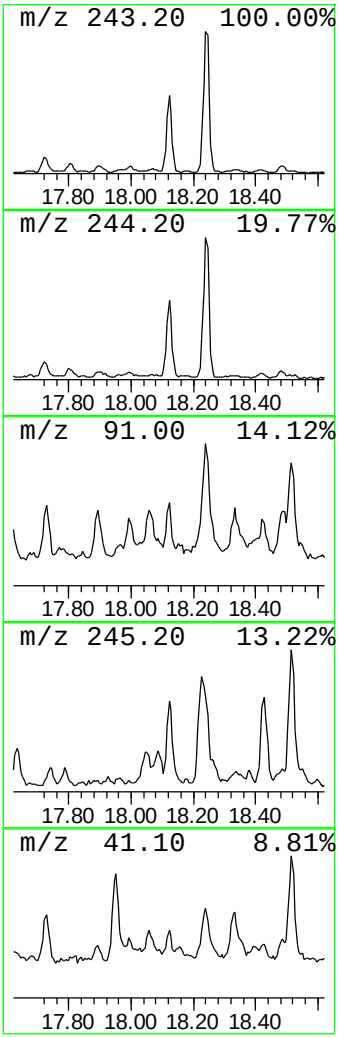
**********

Peak Number 9 3,5-Di(2-thienyl)pyridine Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.12 | 4.58 ng | 933850 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Di(2-thienyl)pyridine | 243 | C13H9NS2 | 117823-19-5 | 64 |
| 2 | 9H-Carbazole, 9-phenyl- | 243 | C18H13N | 001150-62-5 | 64 |
| 3 | Heptanoic acid, tripropylsilyl e... | 286 | C16H34O2Si | 1000279-46-6 | 50 |
| 4 | .alpha.-Hydroxy-.alpha.-phenyl-4... | 502 | C33H39FO3 | 168104-63-0 | 45 |
| 5 | 4-Ethyl-1,1,1,4-tetraphenyl-octa... | 460 | C34H36O | 1000186-91-2 | 45 |



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Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

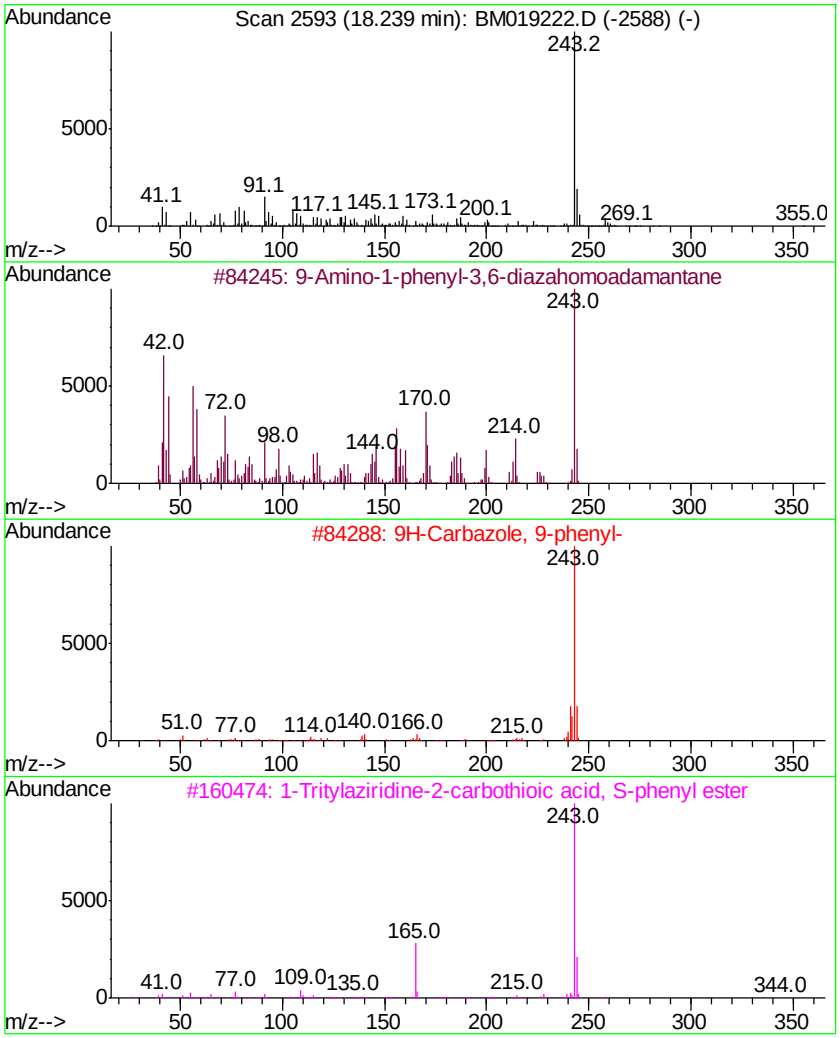
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

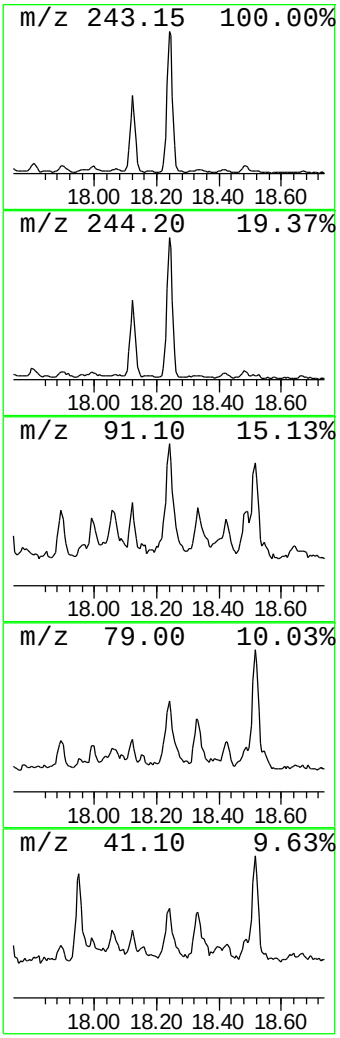
**********

Peak Number 10 9-Amino-1-phenyl-3,6-diazah... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.24 | 8.31 ng | 1694350 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Amino-1-phenyl-3,6-diazahomoad... | 243 | C15H21N3 | 147084-69-3 | 72 |
| 2 | 9H-Carbazole, 9-phenyl- | 243 | C18H13N | 001150-62-5 | 64 |
| 3 | 1-Tritylaziridine-2-carbothioic ... | 421 | C28H23NOS | 1000191-60-9 | 64 |
| 4 | 9-Oxabicyclo[3.3.1]nonan-3-ol, 7... | 414 | C28H30O3 | 1000197-53-9 | 64 |
| 5 | 5-Undecen-2-one, 4-methyl-1,1,1-... | 410 | C30H34O | 1000197-51-8 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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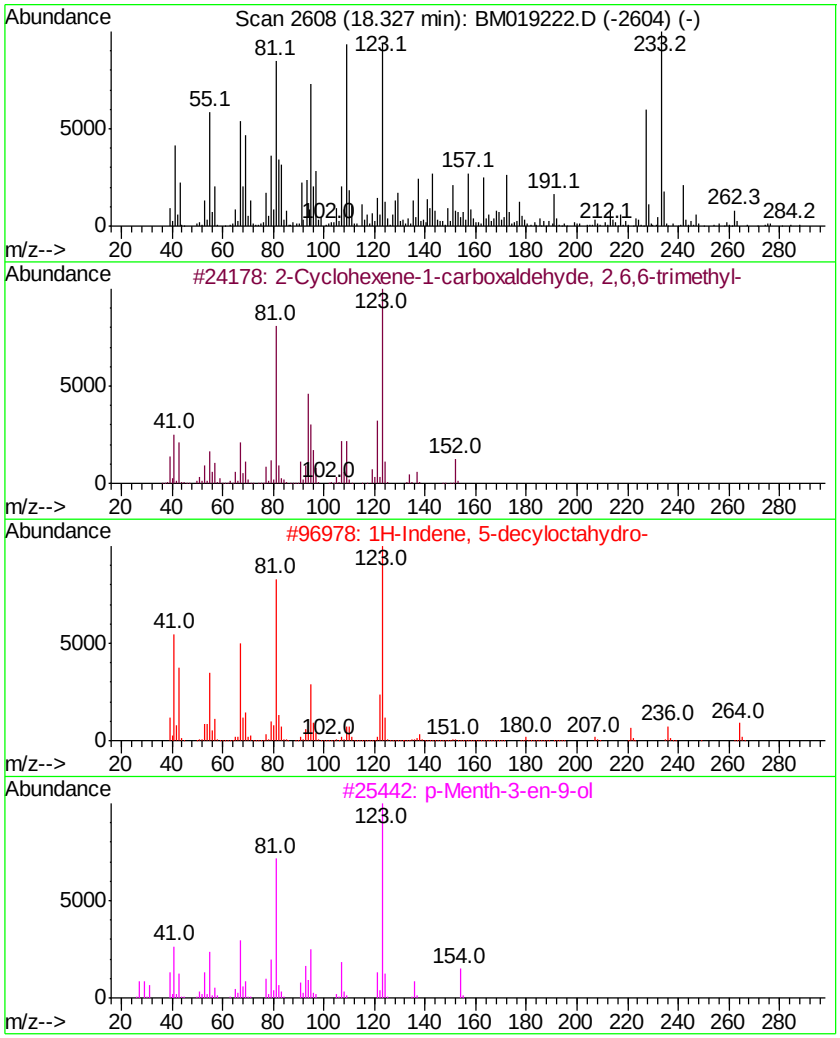
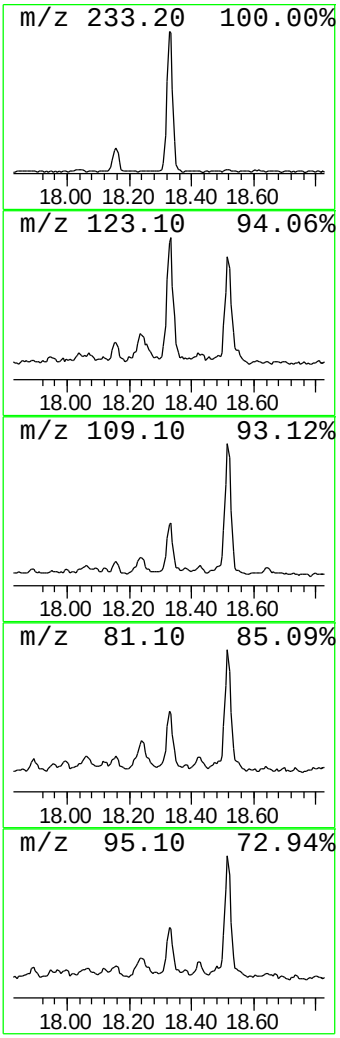
Peak Number 11 unknown18.33 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.33 | 7.09 ng | 1445230 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclohexene-1-carboxaldehyde, ... | 152 | C10H16O | 000432-24-6 | 30 |
| 2 | 1H-Indene, 5-decyloctahydro- | 264 | C19H36 | 055044-35-4 | 27 |
| 3 | p-Menth-3-en-9-ol | 154 | C10H18O | 015714-10-0 | 25 |
| 4 | 2-Cyclohexene-1-methanol, 2,6,6-... | 154 | C10H18O | 006627-74-3 | 22 |
| 5 | Cyclopentane, 1-methyl-1-(2-meth... | 138 | C10H18 | 074764-47-9 | 22 |



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Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

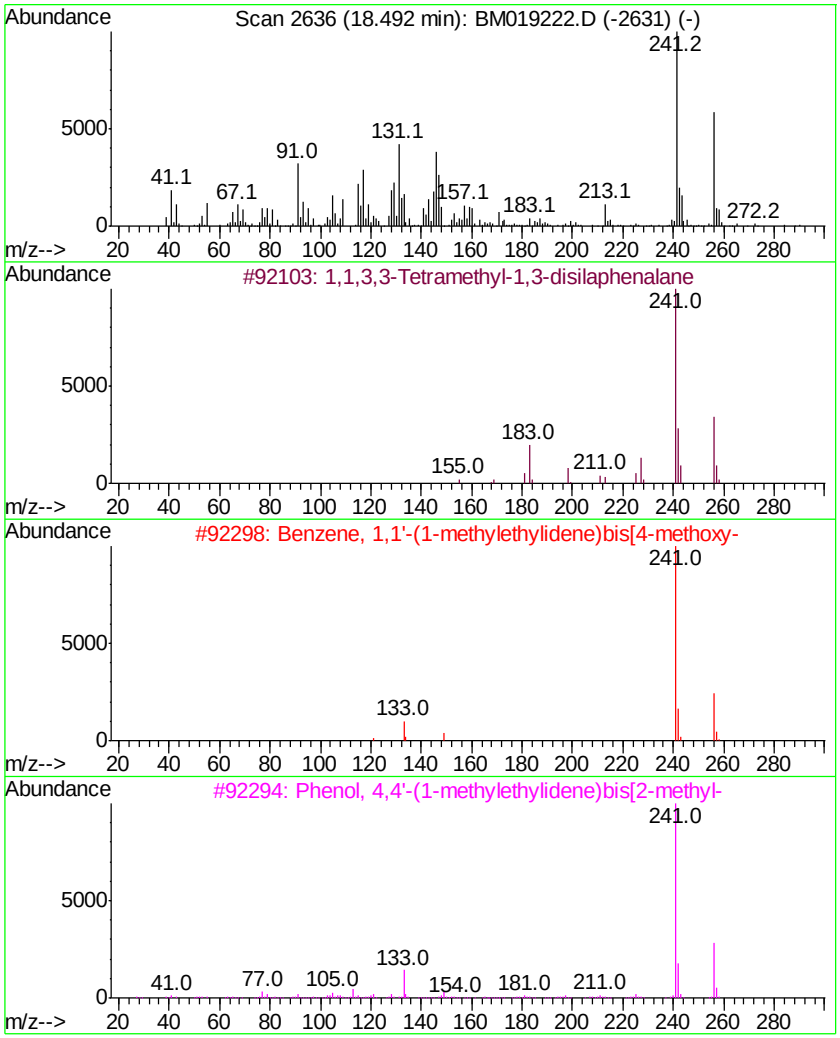
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

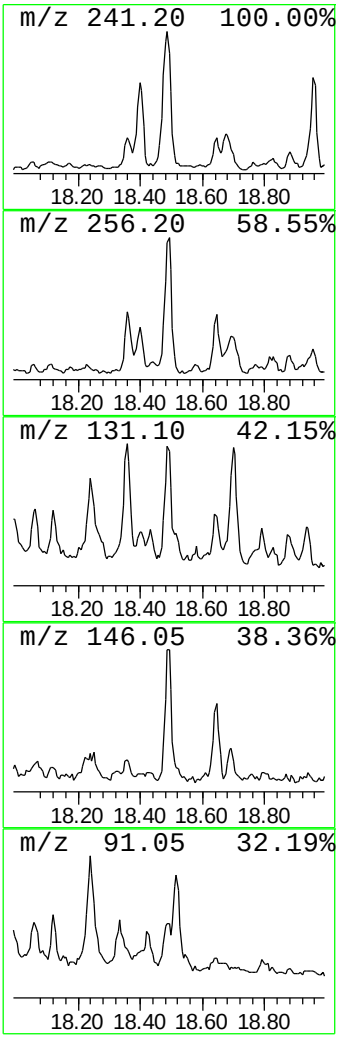
**********

Peak Number 12 1,1,3,3-Tetramethyl-1,3-dis... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.49 | 2.71 ng | 552846 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1,3,3-Tetramethyl-1,3-disilaph... | 256 | C15H20Si2 | 032538-51-5 | 72 |
| 2 | Benzene, 1,1'-(1-methylethyliden... | 256 | C17H20O2 | 001568-83-8 | 43 |
| 3 | Phenol, 4,4'-(1-methylethylidene... | 256 | C17H20O2 | 000079-97-0 | 43 |
| 4 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 43 |
| 5 | 1-Bromo-3-tert-butyl-2-methoxy-5... | 256 | C12H17BrO | 117439-55-1 | 37 |



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Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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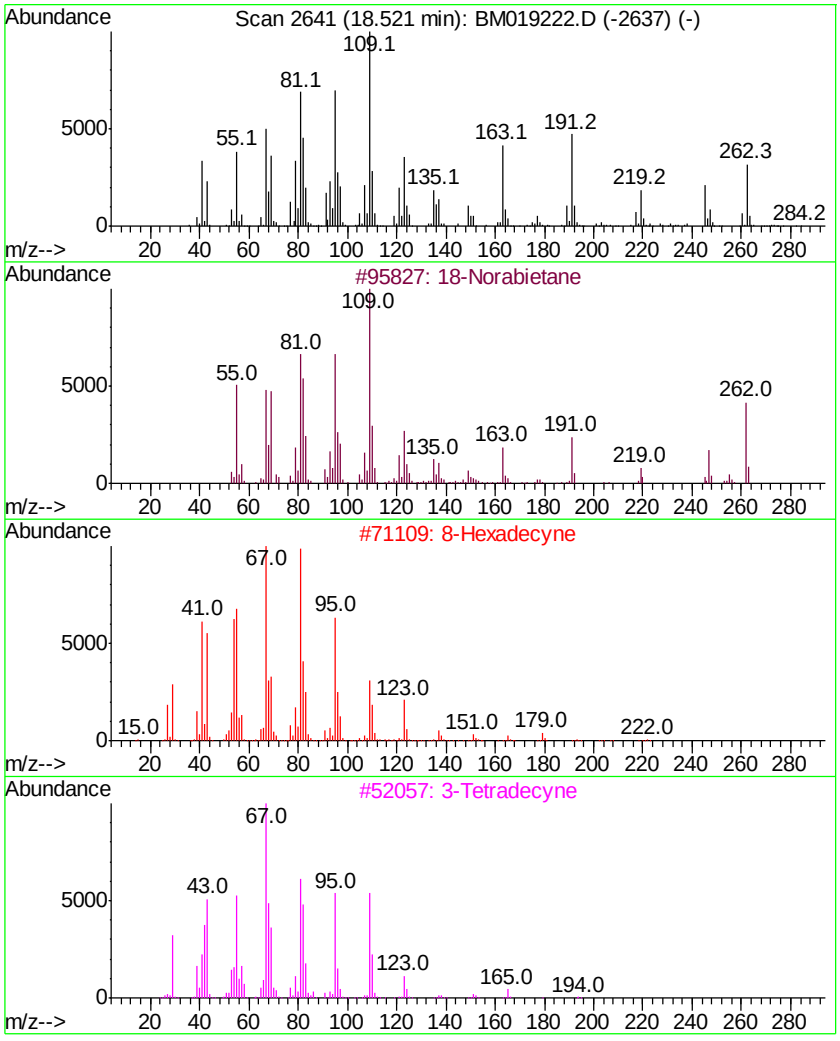
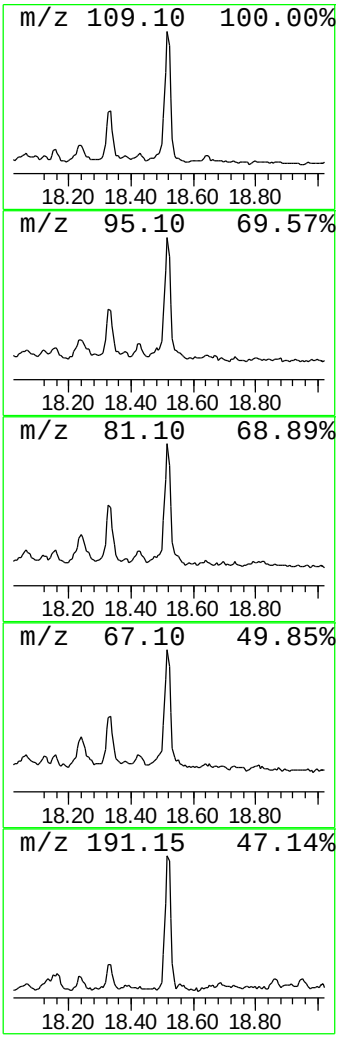
Peak Number 13 18-Norabietane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.52 | 7.78 ng | 1586000 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 91 |
| 2 | 8-Hexadecyne | 222 | C16H30 | 019781-86-3 | 45 |
| 3 | 3-Tetradecyne | 194 | C14H26 | 060212-32-0 | 43 |
| 4 | 3-Undecyne | 152 | C11H20 | 060212-30-8 | 38 |
| 5 | 2-Tetradecyne | 194 | C14H26 | 000638-60-8 | 35 |



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Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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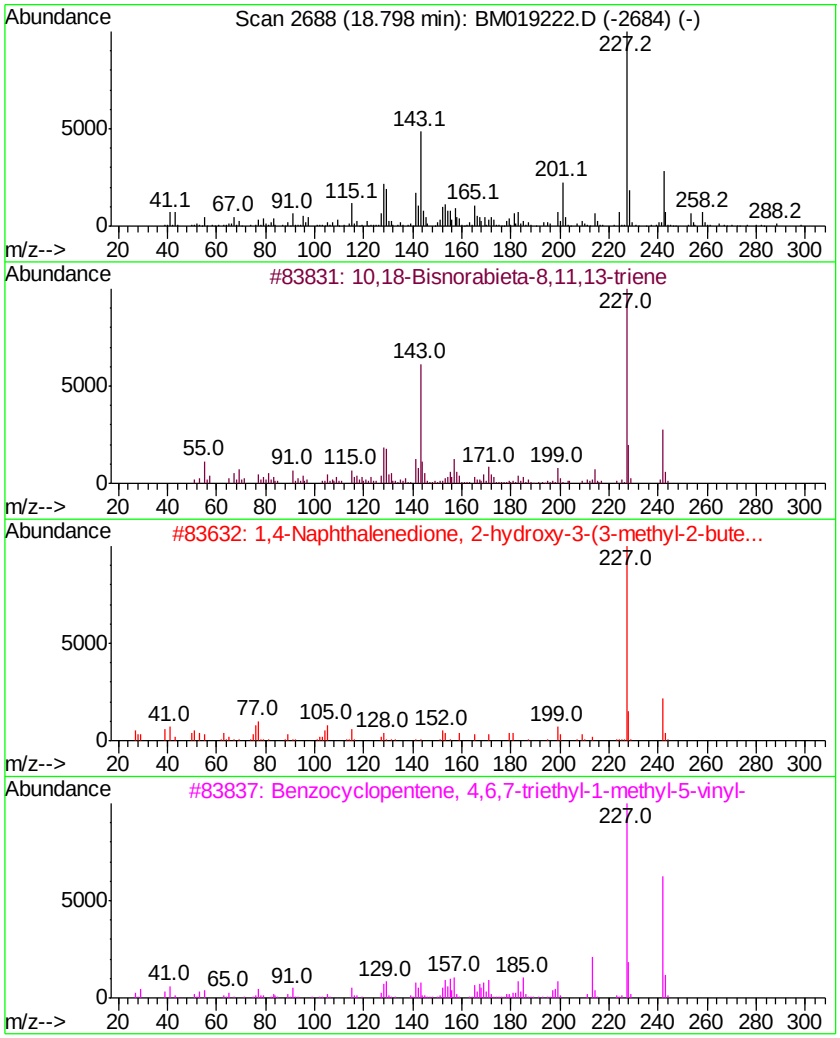
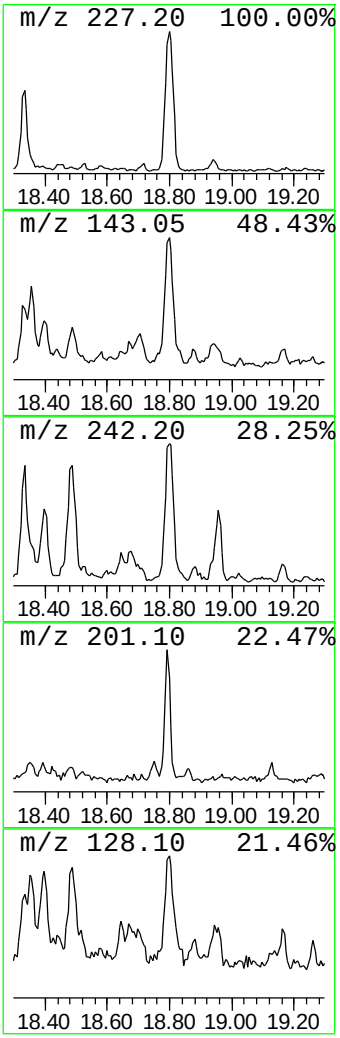
Peak Number 14 10,18-Bisnorabieta-8,11,13-... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.80 | 3.35 ng | 682219 | Phenanthrene-d10 | 17.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10,18-Bisnorabieta-8,11,13-triene | 242 | C18H26 | 032624-67-2 | 93 |
| 2 | 1,4-Naphthalenedione, 2-hydroxy-... | 242 | C15H14O3 | 000084-79-7 | 55 |
| 3 | Benzocyclopentene, 4,6,7-triethy... | 242 | C18H26 | 1000156-41-5 | 49 |
| 4 | 1,4-Naphthalenedione, 2-hydroxy-... | 242 | C15H14O3 | 004042-39-1 | 49 |
| 5 | 5-Methoxy-2-methyl-4-oxo-1,2,3,4... | 242 | C14H14N2O2 | 1000227-06-0 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

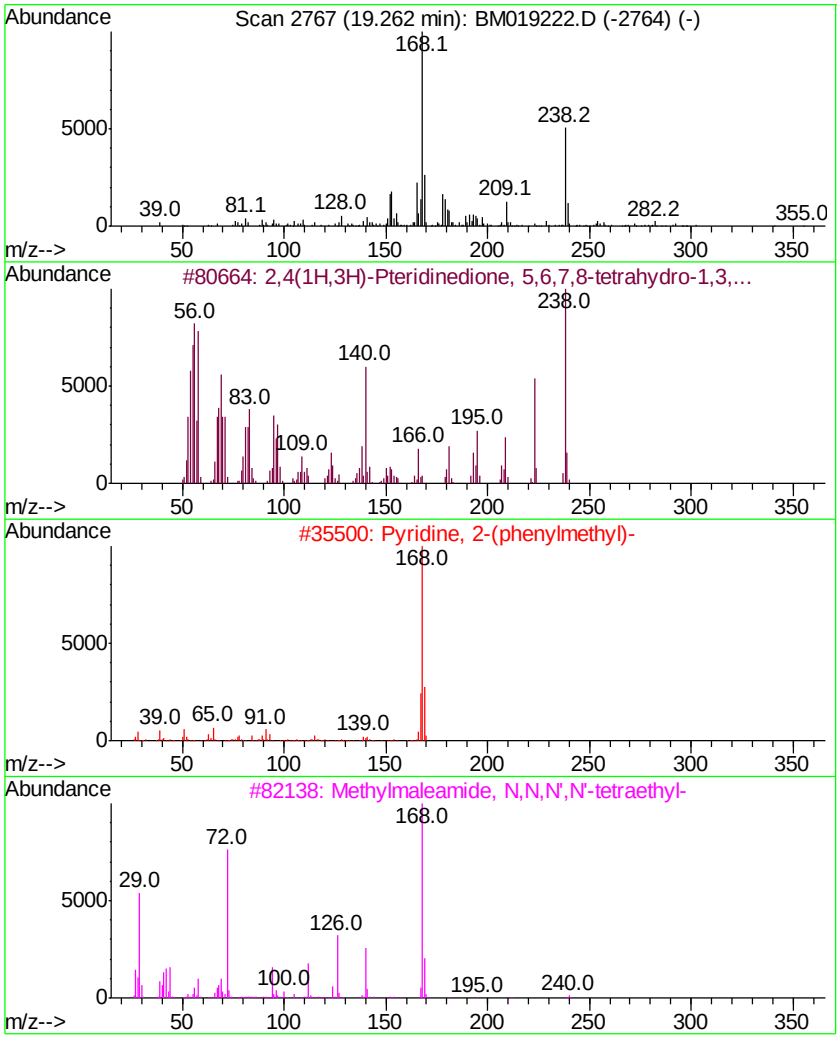
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

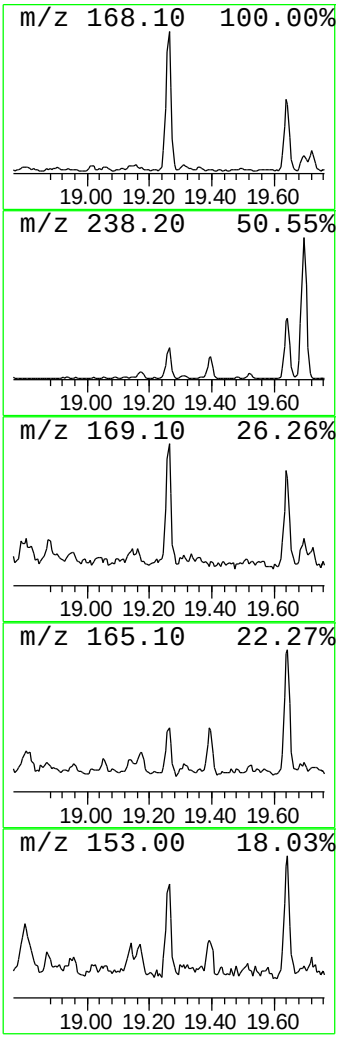
**********

Peak Number 15 2,4(1H,3H)-Pteridinedione, ... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.26 | 2.01 ng | 320870 | Chrysene-d12 | 21.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4(1H,3H)-Pteridinedione, 5,6,7... | 238 | C11H18N4O2 | 037921-31-6 | 60 |
| 2 | Pyridine, 2-(phenylmethyl)- | 169 | C12H11N | 000101-82-6 | 38 |
| 3 | Methylmaleamide, N,N,N',N'-tetra... | 240 | C13H24N2O2 | 1000152-60-2 | 35 |
| 4 | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12 | 003710-23-4 | 35 |
| 5 | Pyridine, 3-methyl-2-phenyl- | 169 | C12H11N | 010273-90-2 | 35 |



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Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

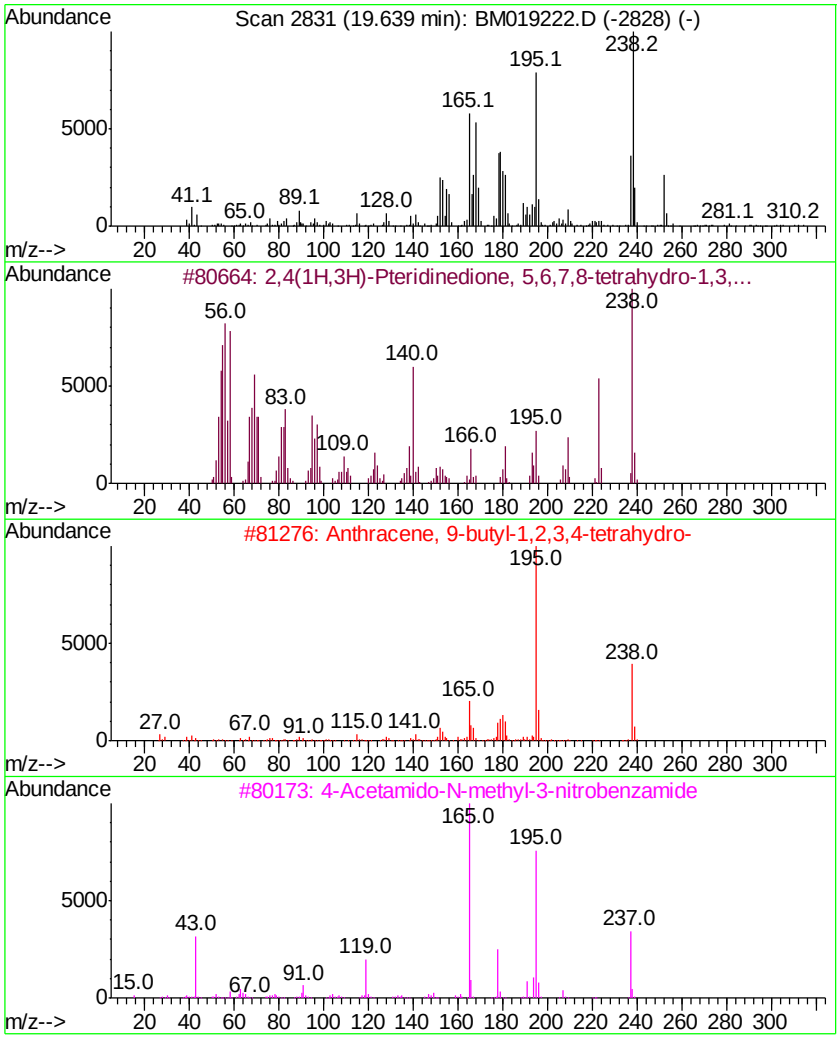
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

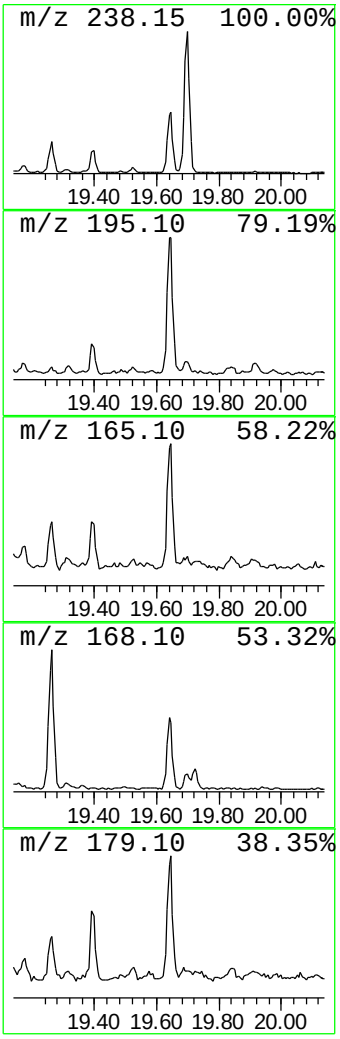
**********

Peak Number 16 Anthracene, 9-butyl-1,2,3,4... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.64 | 3.75 ng | 598622 | Chrysene-d12 | 21.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4(1H,3H)-Pteridinedione, 5,6,7... | 238 | C11H18N4O2 | 037921-31-6 | 53 |
| 2 | Anthracene, 9-butyl-1,2,3,4-tetr... | 238 | C18H22 | 1000151-39-2 | 53 |
| 3 | 4-Acetamido-N-methyl-3-nitrobenz... | 237 | C10H11N3O4 | 089790-47-6 | 38 |
| 4 | Benzene, 1-benzoyl-2-isopropyl-5... | 238 | C17H18O | 1000149-71-7 | 38 |
| 5 | 4-(2-p-Tolylvinyl)benzoic acid | 238 | C16H14O2 | 043122-74-3 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
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Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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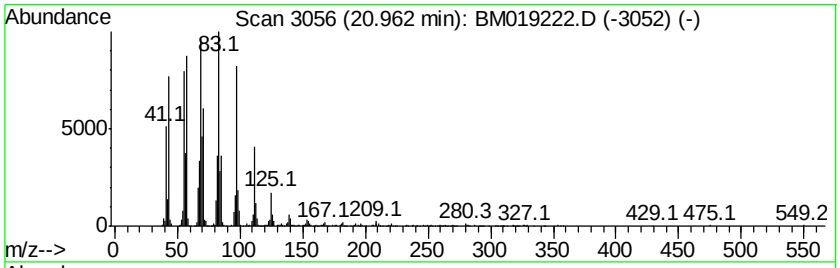
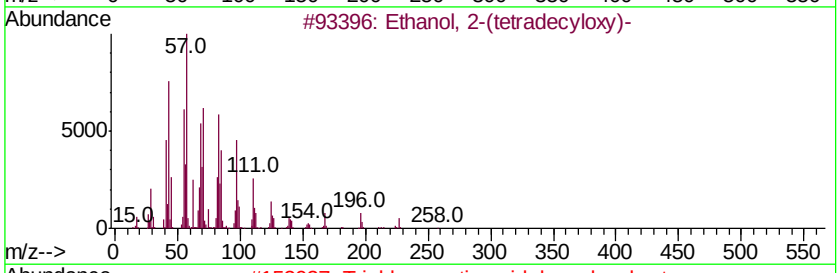
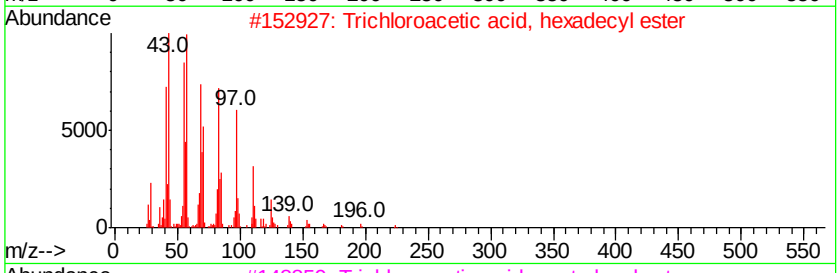
Peak Number 17 Ethanol, 2-(tetradecyloxy)- Concentration Rank 4

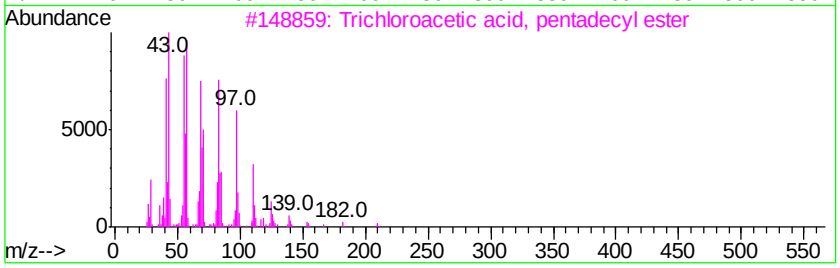
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.96 | 8.64 ng | 1377920 | Chrysene-d12 | 21.26 |

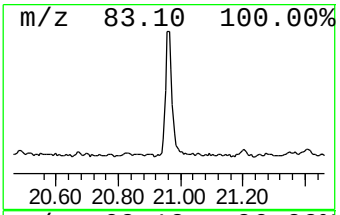
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 91 |
| 2 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91 |
| 3 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91 |
| 4 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 91 |
| 5 | 1-Tetracosanol | 354 | C24H50O | 000506-51-4 | 91 |

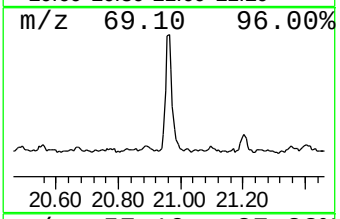


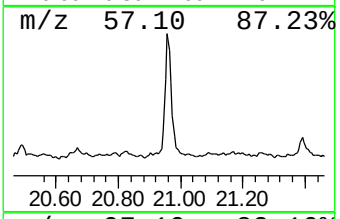



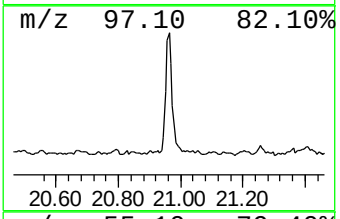



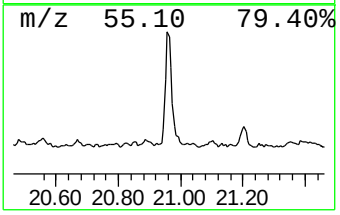



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

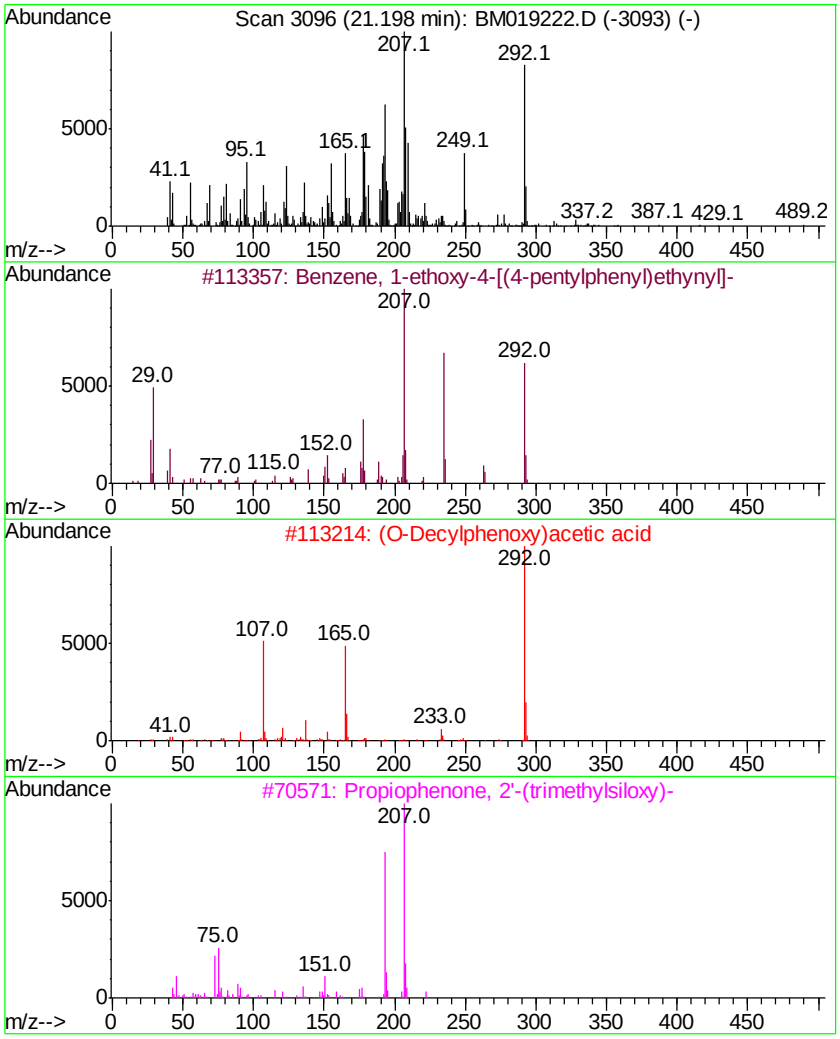
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

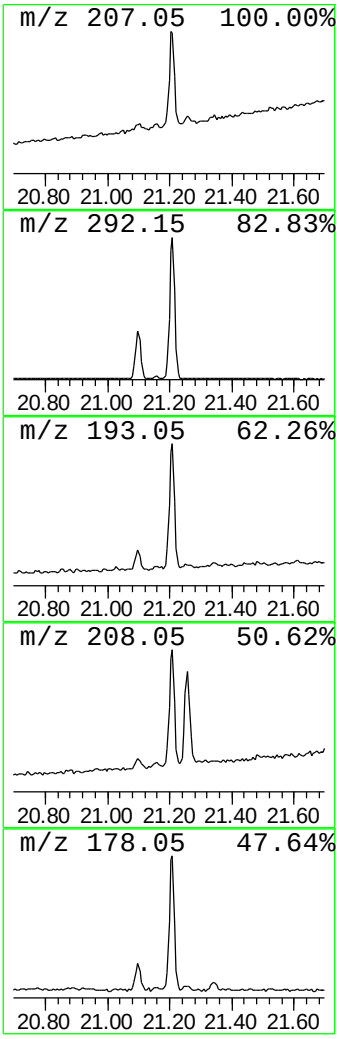
**********

Peak Number 18 unknown21.20 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.20 | 8.99 ng | 1432900 | Chrysene-d12 | 21.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethoxy-4-[(4-pentylph... | 292 | C21H24O | 095480-29-8 | 43 |
| 2 | (O-Decylphenoxy)acetic acid | 292 | C18H28O3 | 014353-81-2 | 25 |
| 3 | Propiophenone, 2'-(trimethylsilo... | 222 | C12H18O2Si | 033342-87-9 | 22 |
| 4 | 2-Cyclohexenone, 3-methoxy-5-[2,... | 292 | C16H20O5 | 119101-25-6 | 20 |
| 5 | 1,4-Naphthoquinone, 2-acetyl-3,8... | 292 | C14H12O7 | 014090-53-0 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

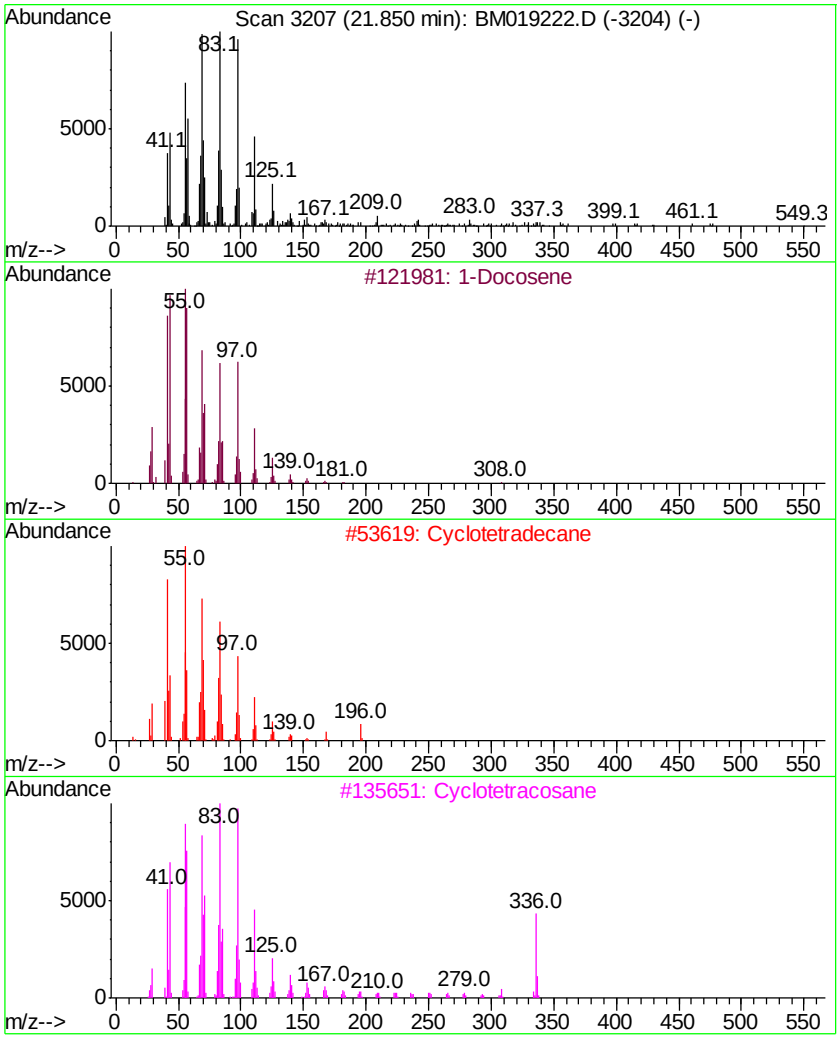
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

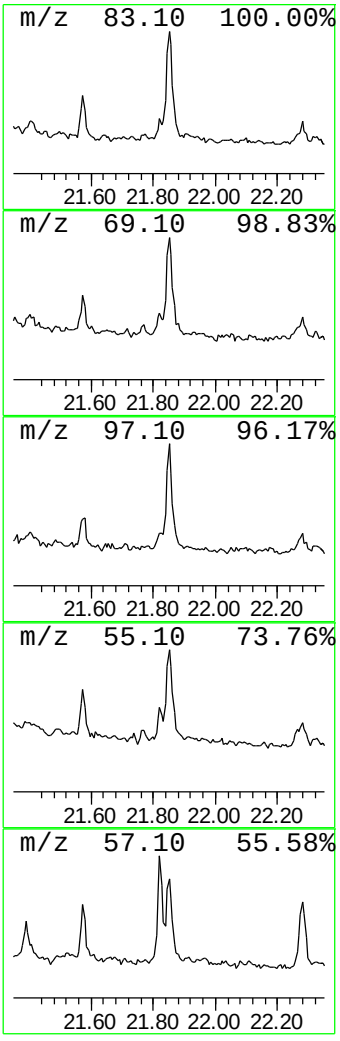
**********

Peak Number 19 1-Docosene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.85 | 3.49 ng | 556649 | Chrysene-d12 | 21.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 90 |
| 2 | Cyclotetradecane | 196 | C14H28 | 000295-17-0 | 86 |
| 3 | Cyclotetracosane | 336 | C24H48 | 000297-03-0 | 81 |
| 4 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 72 |
| 5 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 72 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

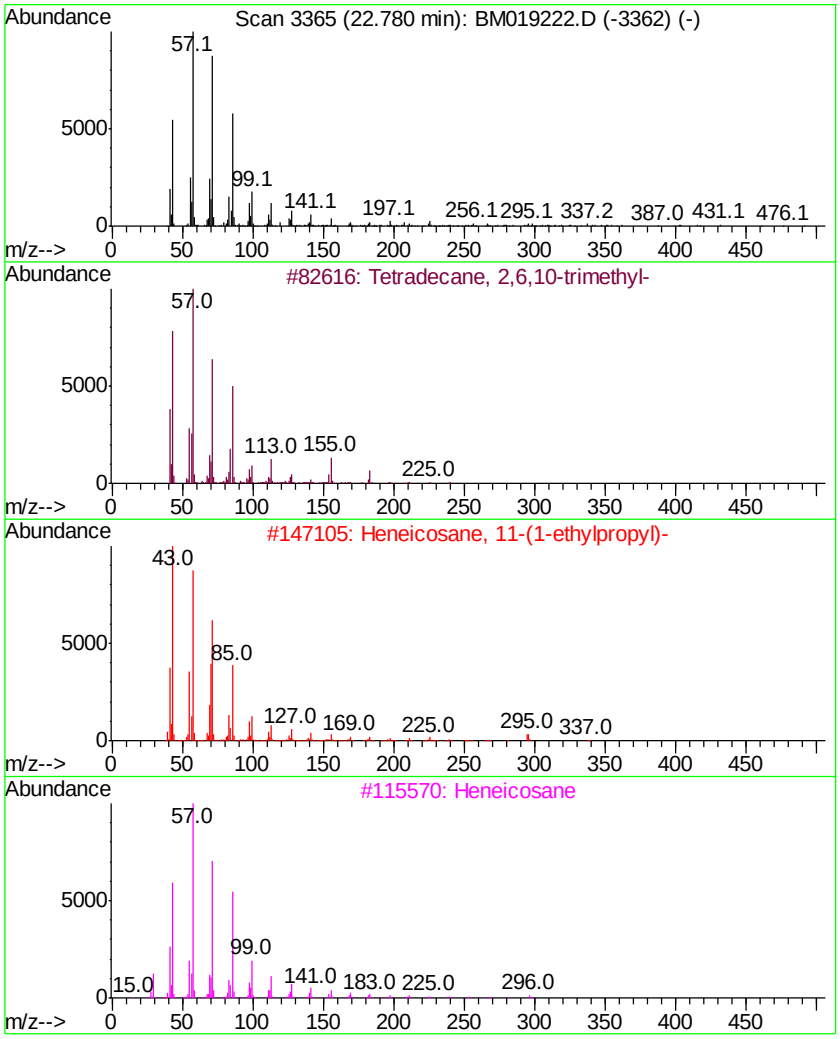
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

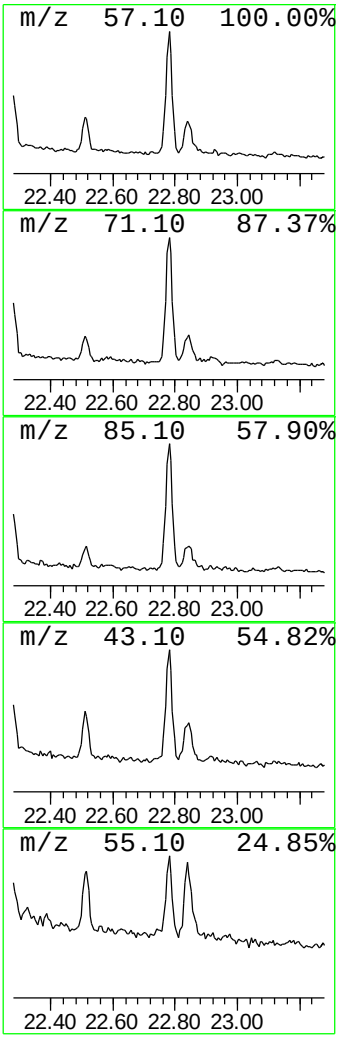
**********

Peak Number 20 Tetradecane, 2,6,10-trimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.78 | 2.86 ng | 409826 | Perylene-d12 | 23.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36 | 014905-56-7 | 94 |
| 2 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 91 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 4 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |
| 5 | Nonacosane | 408 | C29H60 | 000630-03-5 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM031819\
Data File : BM019222.D
Acq On : 18 Mar 2019 19:04
Operator : JU/SJ
Sample : K1935-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** SB-2(10-11)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM031119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown7.19 | 7.19 | 121.7 | ng | 9546880 | 1 | 7.65 | 1568870 | 20.0 |
| unknown16.97 | 16.97 | 2.4 | ng | 496515 | 4 | 17.06 | 4078130 | 20.0 |
| unknown17.49 | 17.49 | 3.7 | ng | 758802 | 4 | 17.06 | 4078130 | 20.0 |
| Cyclohexanol, 2-[... | 17.55 | 2.4 | ng | 492926 | 4 | 17.06 | 4078130 | 20.0 |
| Naphthalene, 6-et... | 17.73 | 7.2 | ng | 1474810 | 4 | 17.06 | 4078130 | 20.0 |
| n-Hexadecanoic acid | 17.95 | 4.5 | ng | 919862 | 4 | 17.06 | 4078130 | 20.0 |
| p-Dimethylaminobe... | 18.06 | 4.3 | ng | 885080 | 4 | 17.06 | 4078130 | 20.0 |
| 3,5-Di(2-thienyl)... | 18.12 | 4.6 | ng | 933850 | 4 | 17.06 | 4078130 | 20.0 |
| 9-Amino-1-phenyl-... | 18.24 | 8.3 | ng | 1694350 | 4 | 17.06 | 4078130 | 20.0 |
| unknown18.33 | 18.33 | 7.1 | ng | 1445230 | 4 | 17.06 | 4078130 | 20.0 |
| 1,1,3,3-Tetrameth... | 18.49 | 2.7 | ng | 552846 | 4 | 17.06 | 4078130 | 20.0 |
| 18-Norabietane | 18.52 | 7.8 | ng | 1586000 | 4 | 17.06 | 4078130 | 20.0 |
| 10,18-Bisnorabiet... | 18.80 | 3.4 | ng | 682219 | 4 | 17.06 | 4078130 | 20.0 |
| 2,4(1H,3H)-Pterid... | 19.26 | 2.0 | ng | 320870 | 5 | 21.26 | 3188630 | 20.0 |
| Anthracene, 9-but... | 19.64 | 3.8 | ng | 598622 | 5 | 21.26 | 3188630 | 20.0 |
| Ethanol, 2-(tetra... | 20.96 | 8.6 | ng | 1377920 | 5 | 21.26 | 3188630 | 20.0 |
| unknown21.20 | 21.20 | 9.0 | ng | 1432900 | 5 | 21.26 | 3188630 | 20.0 |
| 1-Docosene | 21.85 | 3.5 | ng | 556649 | 5 | 21.26 | 3188630 | 20.0 |
| Tetradecane, 2,6,... | 22.78 | 2.9 | ng | 409826 | 6 | 23.49 | 2863020 | 20.0 |