

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\  
 Data File : BM022482.D  
 Acq On : 01 Sep 2019 18:12  
 Operator : HP/JU  
 Sample : K4555-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TW-13

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 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-BM082919.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.128       | 360           | 364         | 376          | rBV      | 94134          | 154446        | 10.13%          | 3.027%        |
| 2         | 6.710       | 628           | 633         | 649          | rBV2     | 45483          | 91811         | 6.02%           | 1.799%        |
| 3         | 7.046       | 684           | 690         | 705          | rBV      | 202492         | 342762        | 22.49%          | 6.718%        |
| 4         | 7.504       | 763           | 768         | 775          | rBB      | 42650          | 61928         | 4.06%           | 1.214%        |
| 5         | 7.816       | 815           | 821         | 830          | rBV      | 203723         | 329628        | 21.62%          | 6.460%        |
| 6         | 8.681       | 962           | 968         | 988          | rBV      | 103662         | 232072        | 15.22%          | 4.548%        |
| 7         | 10.286      | 1235          | 1241        | 1257         | rBB      | 32199          | 69153         | 4.54%           | 1.355%        |
| 8         | 12.775      | 1658          | 1664        | 1678         | rBV      | 336714         | 548633        | 35.99%          | 10.752%       |
| 9         | 14.174      | 1897          | 1902        | 1913         | rBB      | 59230          | 95592         | 6.27%           | 1.873%        |
| 10        | 15.686      | 2154          | 2159        | 2176         | rBB      | 355647         | 577095        | 37.86%          | 11.310%       |
| 11        | 16.945      | 2368          | 2373        | 2386         | rBV2     | 68460          | 123430        | 8.10%           | 2.419%        |
| 12        | 17.833      | 2520          | 2524        | 2535         | rBV2     | 15467          | 28504         | 1.87%           | 0.559%        |
| 13        | 19.127      | 2738          | 2744        | 2749         | rBV4     | 15039          | 24421         | 1.60%           | 0.479%        |
| 14        | 19.580      | 2816          | 2821        | 2832         | rBV      | 1247405        | 1524392       | 100.00%         | 29.876%       |
| 15        | 20.845      | 3032          | 3036        | 3046         | rVB5     | 33270          | 57938         | 3.80%           | 1.136%        |
| 16        | 20.945      | 3049          | 3053        | 3057         | rBV2     | 12331          | 20369         | 1.34%           | 0.399%        |
| 17        | 21.156      | 3085          | 3089        | 3100         | rBV2     | 162798         | 258392        | 16.95%          | 5.064%        |
| 18        | 21.280      | 3106          | 3110        | 3116         | rBV2     | 27391          | 32758         | 2.15%           | 0.642%        |
| 19        | 21.698      | 3178          | 3181        | 3185         | rBV      | 30501          | 33791         | 2.22%           | 0.662%        |
| 20        | 22.145      | 3253          | 3257        | 3261         | rVB      | 46856          | 50716         | 3.33%           | 0.994%        |
| 21        | 22.627      | 3335          | 3339        | 3344         | rVB4     | 46678          | 62537         | 4.10%           | 1.226%        |
| 22        | 23.162      | 3426          | 3430        | 3435         | rVB      | 45512          | 66965         | 4.39%           | 1.312%        |
| 23        | 23.339      | 3455          | 3460        | 3471         | rBV      | 127504         | 271605        | 17.82%          | 5.323%        |
| 24        | 23.762      | 3530          | 3532        | 3537         | rVB3     | 29333          | 43455         | 2.85%           | 0.852%        |

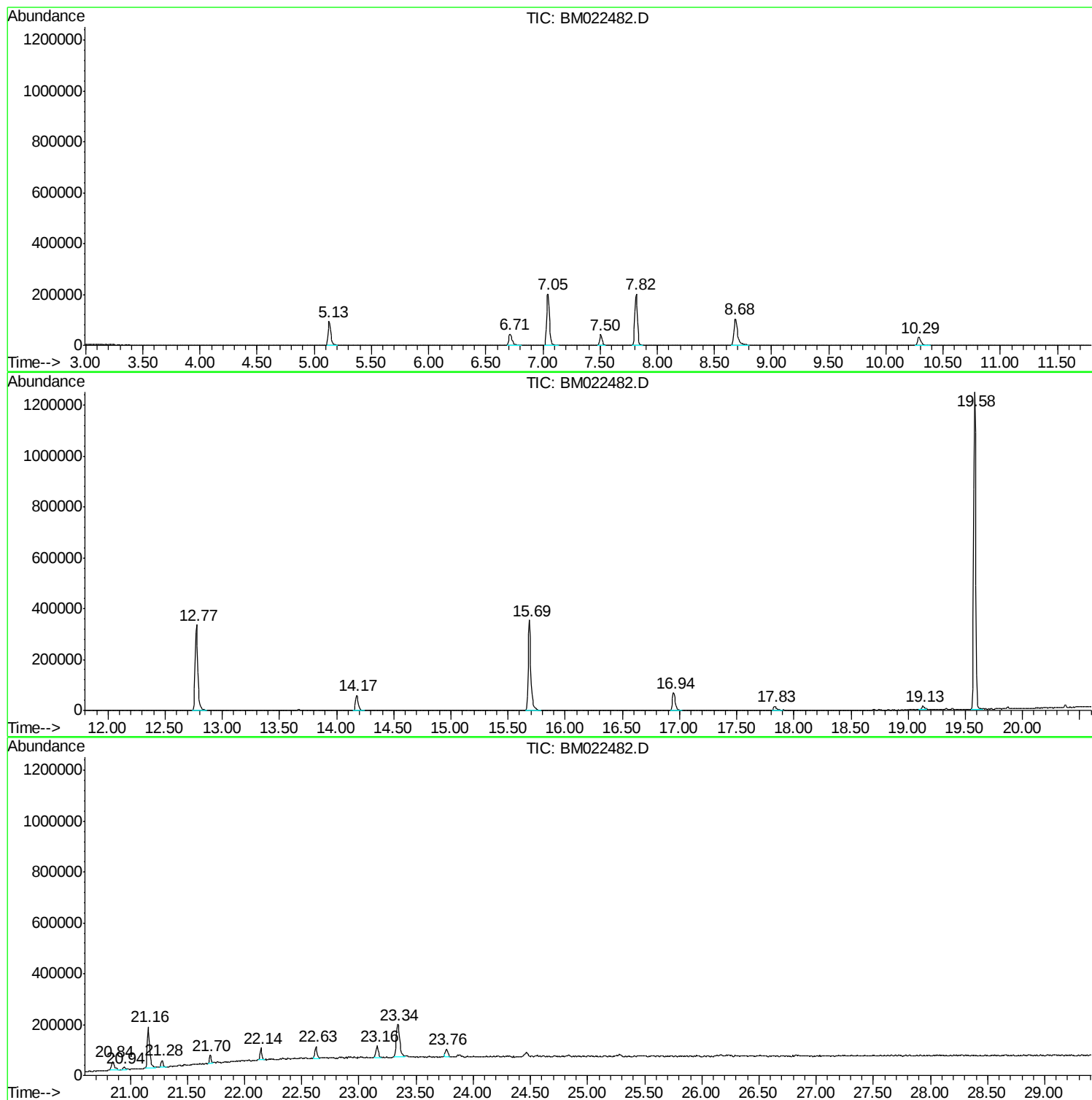
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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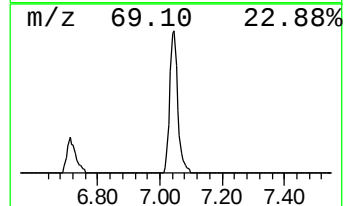
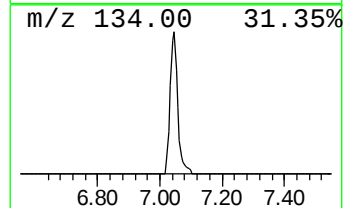
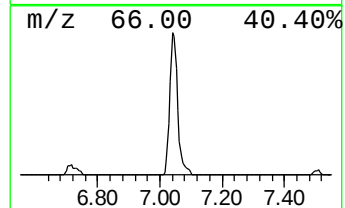
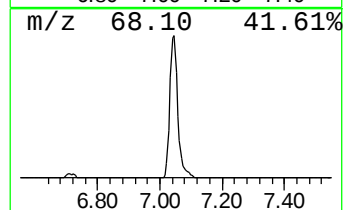
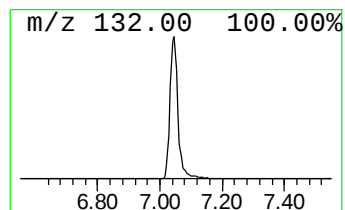
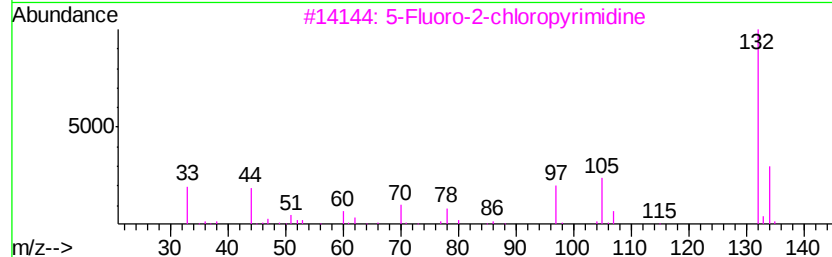
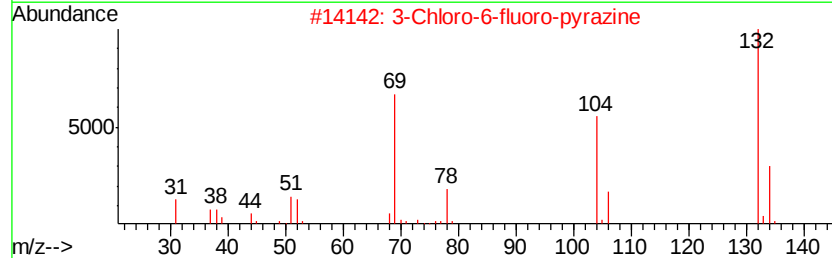
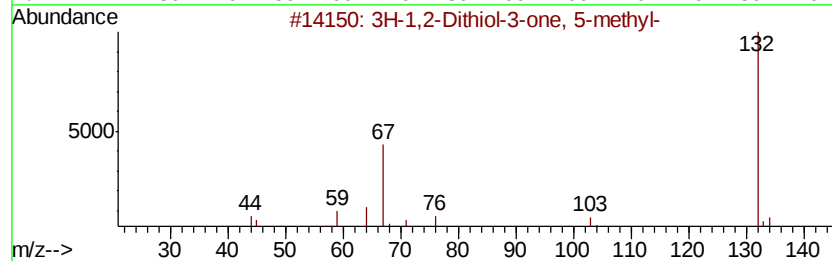
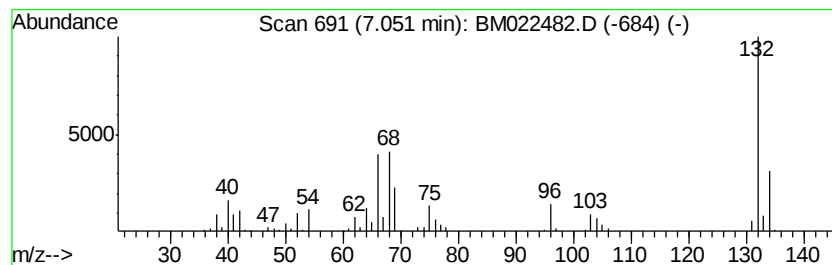
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.05 Concentration Rank 1

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 7.05 | 110.70 ng | 342762 | 1,4-Dichlorobenzene-d4 | 7.50 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3H-1,2-Dithiol-3-one, 5-methyl-     | 132 | C4H4OS2   | 003620-08-4  | 14   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 14   |
| 3    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 14   |
| 4    |    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5  | 14   |
| 5    |    | 1,3-Cyclopentanedione, 2-chloro-    | 132 | C5H5ClO2  | 014203-19-1  | 10   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

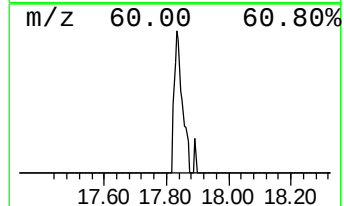
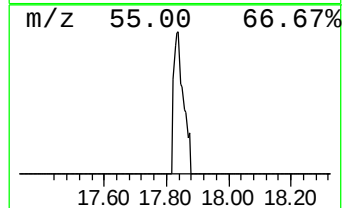
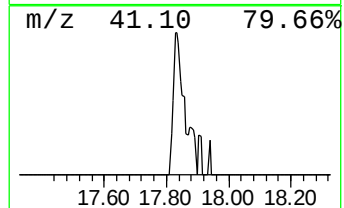
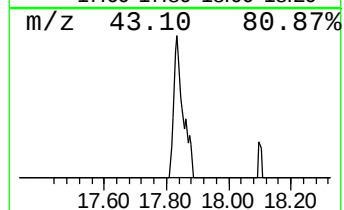
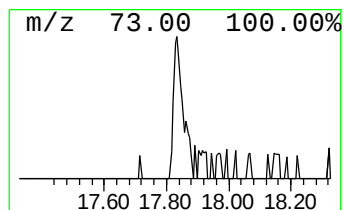
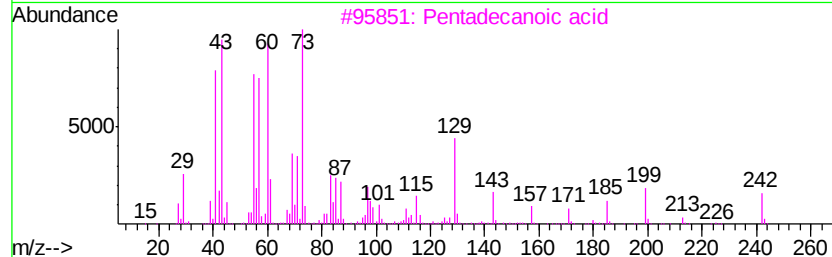
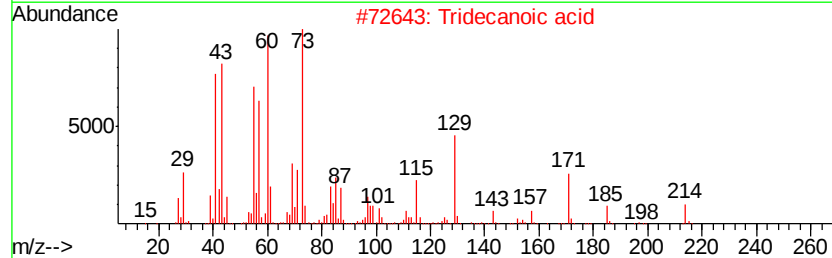
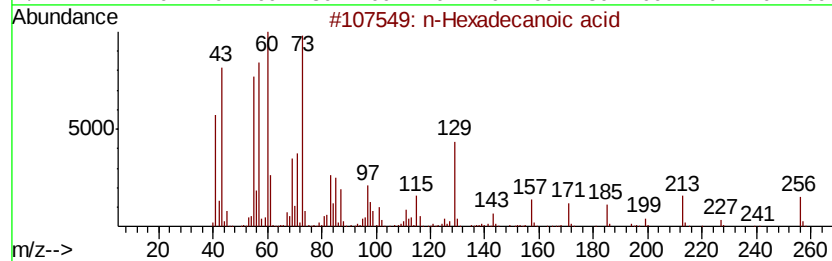
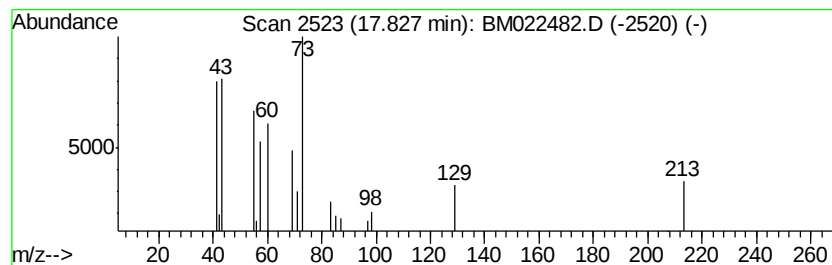
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.83 | 4.62 ng | 28504 | Phenanthrene-d10 | 16.95 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm    | CAS#        | Qual |
|---------|---|--------------------------------|-----|------------|-------------|------|
| 1       |   | n-Hexadecanoic acid            | 256 | C16H32O2   | 000057-10-3 | 81   |
| 2       |   | Tridecanoic acid               | 214 | C13H26O2   | 000638-53-9 | 53   |
| 3       |   | Pentadecanoic acid             | 242 | C15H30O2   | 001002-84-2 | 52   |
| 4       |   | Tetradecanoic acid             | 228 | C14H28O2   | 000544-63-8 | 50   |
| 5       |   | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 38   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

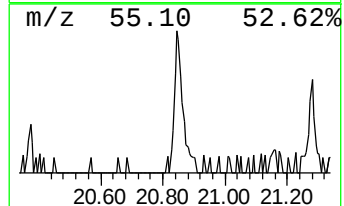
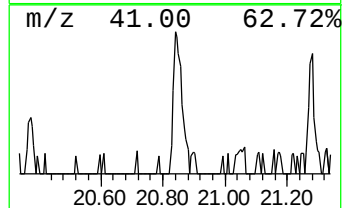
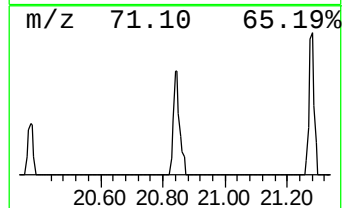
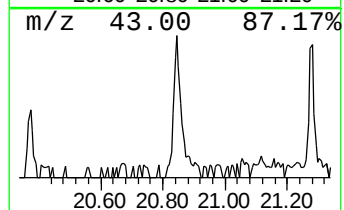
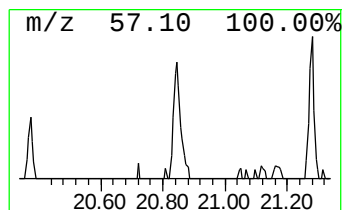
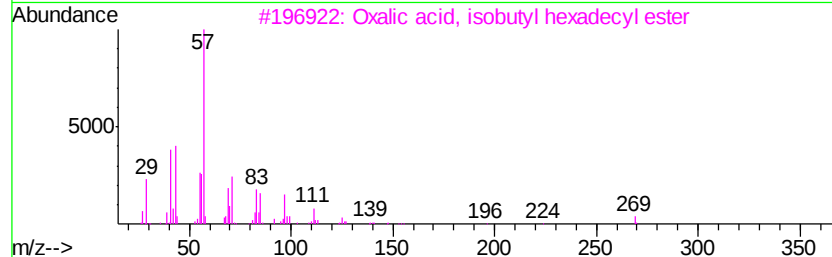
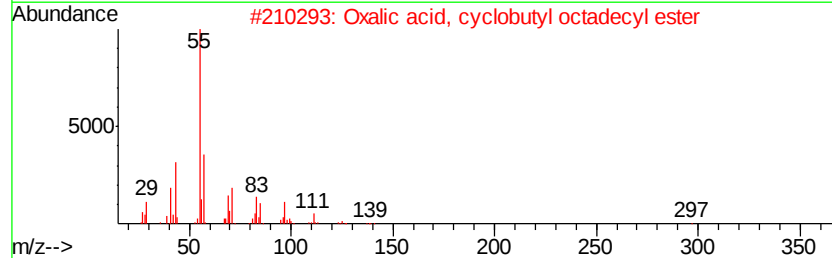
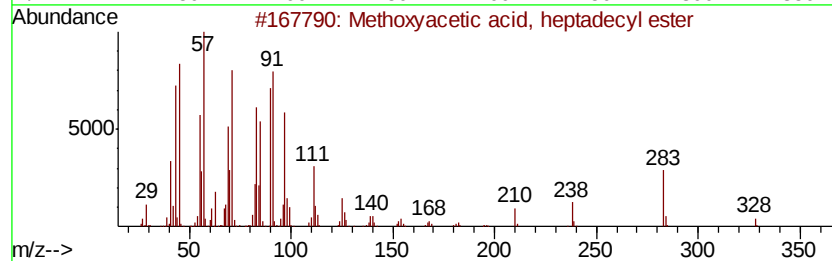
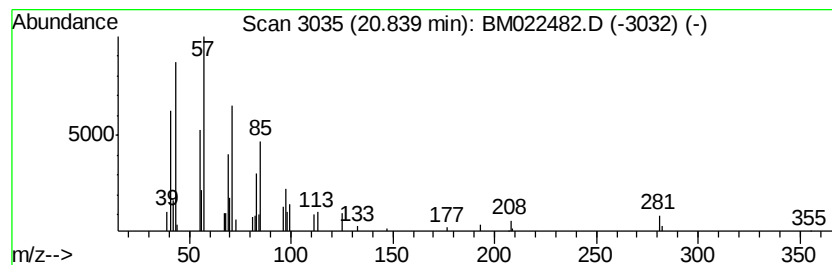
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Methoxyacetic acid, heptade... Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.84 | 4.48 ng | 57938 | Chrysene-d12     | 21.16 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | Methoxvacetic acid, heptadecyl e... | 328 | C20H40O3 | 1000282-99-1 | 87   |
| 2       |   | Oxalic acid, cyclobutyl octadecy... | 396 | C24H44O4 | 1000309-70-8 | 86   |
| 3       |   | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 86   |
| 4       |   | Oxalic acid, cyclobutyl heptadec... | 382 | C23H42O4 | 1000309-70-7 | 86   |
| 5       |   | Oxalic acid, allyl tetradecyl ester | 326 | C19H34O4 | 1000309-24-2 | 80   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

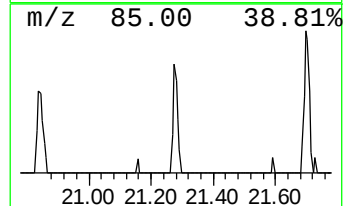
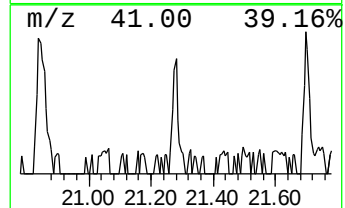
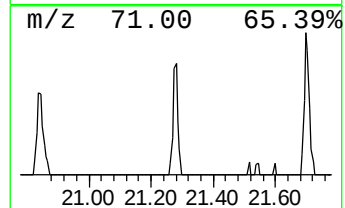
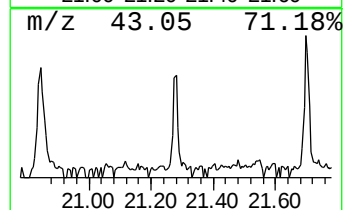
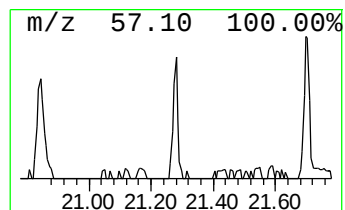
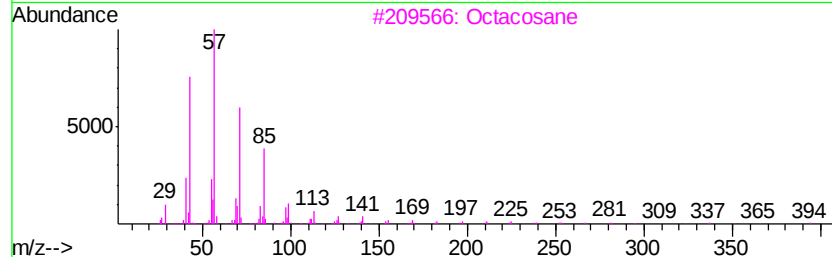
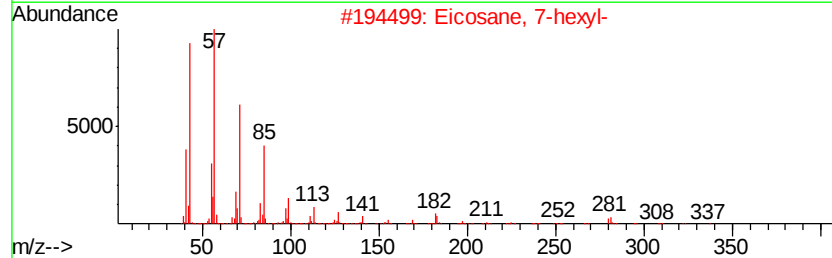
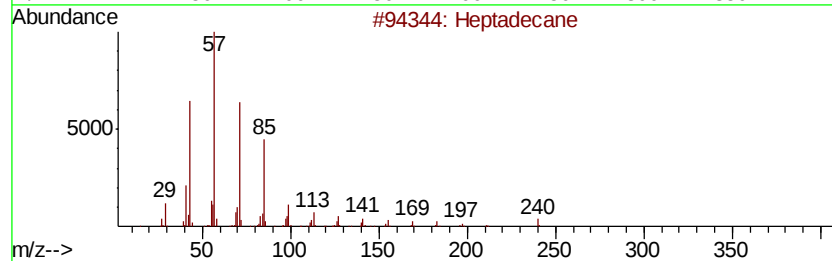
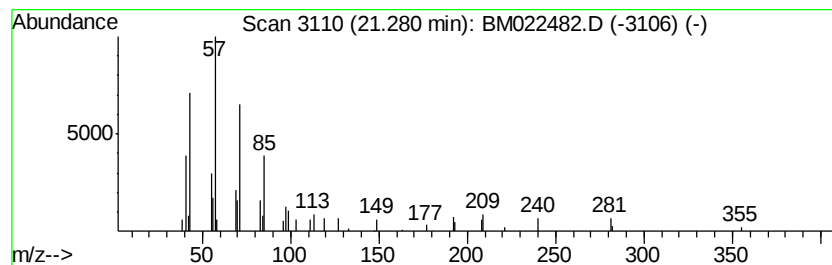
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 21.28 | 2.54 ng | 32758 | Chrysene-d12     | 21.16 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|-----------|--------------|------|
| 1       | Heptadecane                         |              | 240 | C17H36    | 000629-78-7  | 81   |
| 2       | Eicosane, 7-hexyl-                  |              | 366 | C26H54    | 055333-99-8  | 80   |
| 3       | Octacosane                          |              | 394 | C28H58    | 000630-02-4  | 80   |
| 4       | Hexatriacontane                     |              | 507 | C36H74    | 000630-06-8  | 80   |
| 5       | Sulfurous acid, butyl tridecyl e... |              | 320 | C17H36O3S | 1000309-18-0 | 80   |



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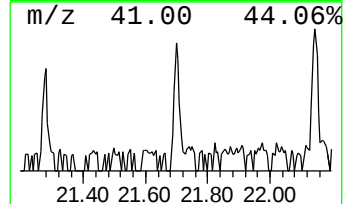
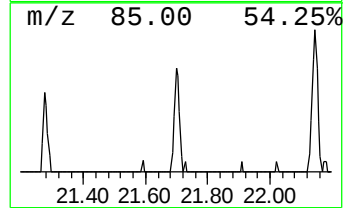
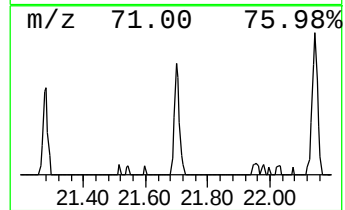
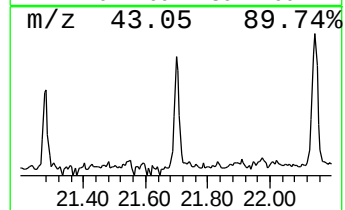
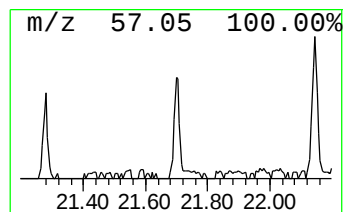
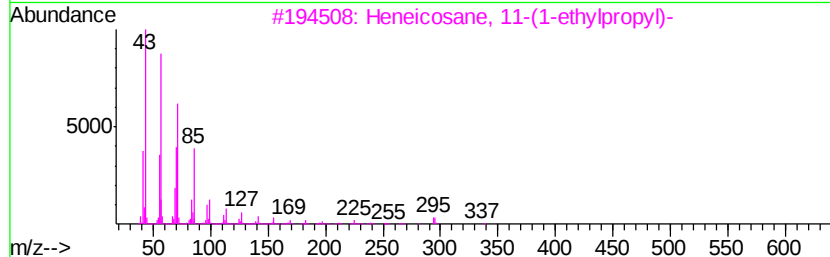
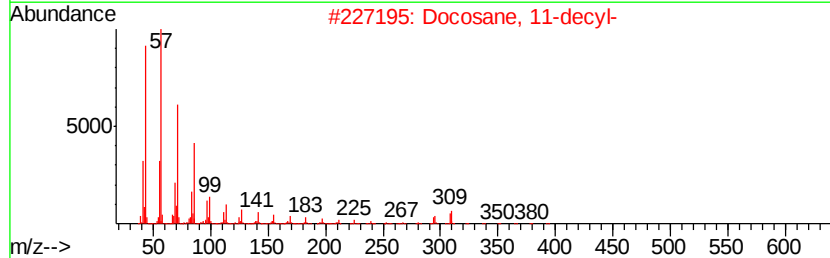
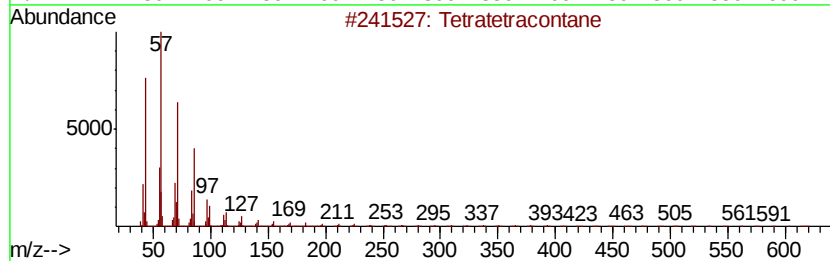
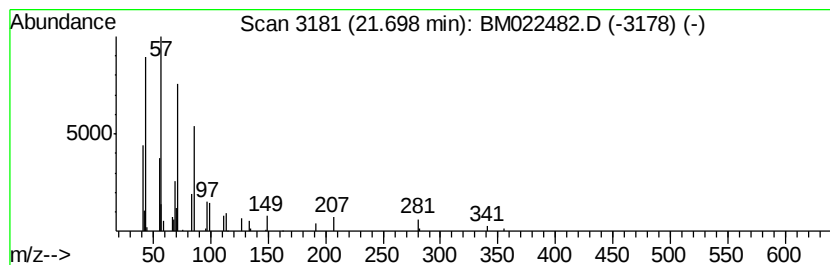
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Tetratetracontane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 21.70 | 2.62 ng | 33791 | Chrysene-d12     | 21.16 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|---------|---|--------------------------------------|-----|-----------|--------------|------|
| 1       |   | Tetratetracontane                    | 619 | C44H90    | 007098-22-8  | 90   |
| 2       |   | Docosane, 11-decyl-                  | 451 | C32H66    | 055401-55-3  | 90   |
| 3       |   | Heneicosane, 11-(1-ethylpropyl)-     | 366 | C26H54    | 055282-11-6  | 90   |
| 4       |   | Sulfurous acid, 2-propyl tridecyl... | 306 | C16H34O3S | 1000309-12-4 | 90   |
| 5       |   | Tetracosane, 11-decyl-               | 479 | C34H70    | 055429-84-0  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\  
Data File : BM022482.D  
Acq On : 01 Sep 2019 18:12  
Operator : HP/JU  
Sample : K4555-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

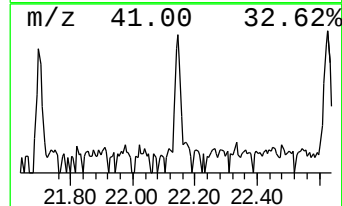
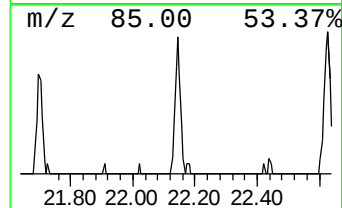
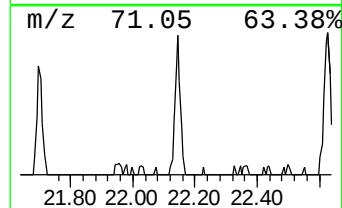
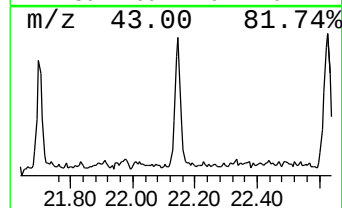
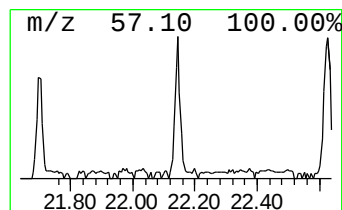
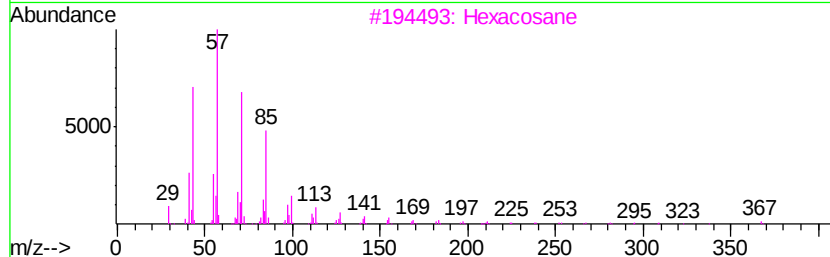
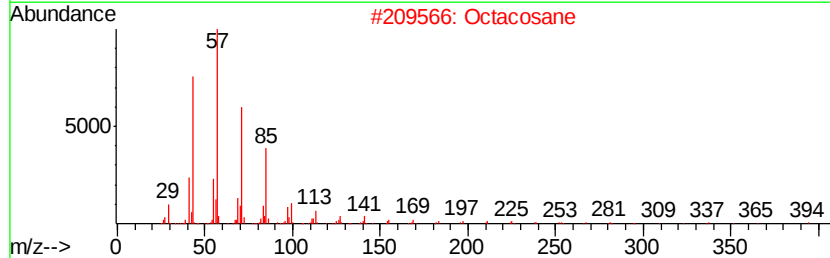
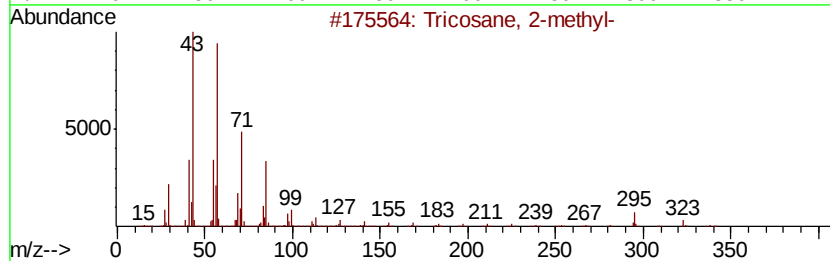
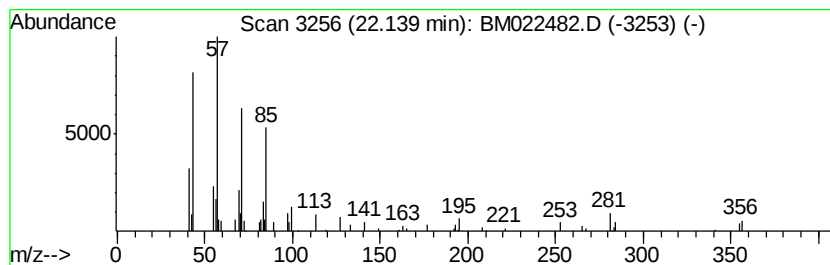
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Tricosane, 2-methyl- Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 22.14 | 3.93 ng | 50716 | Chrysene-d12     | 21.16 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Tricosane, 2-methyl- | 338 | C24H50  | 001928-30-9 | 80   |
| 2    |    | Octacosane           | 394 | C28H58  | 000630-02-4 | 72   |
| 3    |    | Hexacosane           | 366 | C26H54  | 000630-01-3 | 72   |
| 4    |    | Tetratetracontane    | 619 | C44H90  | 007098-22-8 | 68   |
| 5    |    | Heneicosane          | 296 | C21H44  | 000629-94-7 | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\  
Data File : BM022482.D  
Acq On : 01 Sep 2019 18:12  
Operator : HP/JU  
Sample : K4555-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

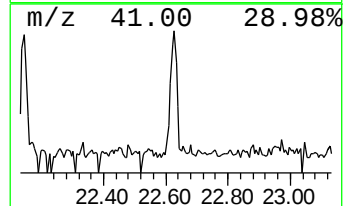
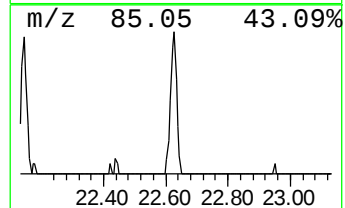
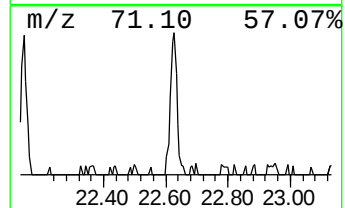
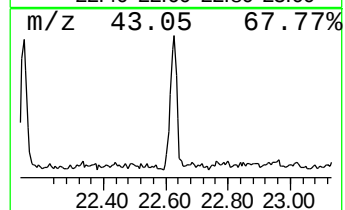
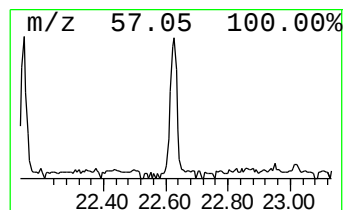
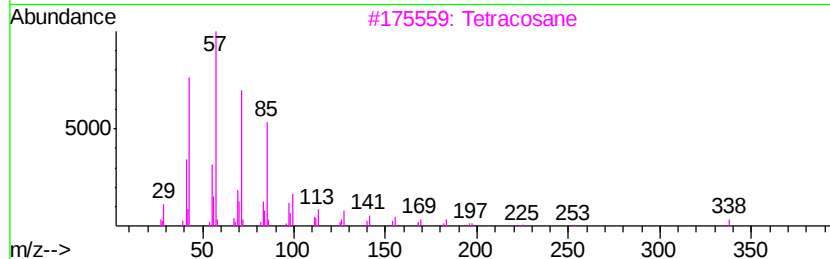
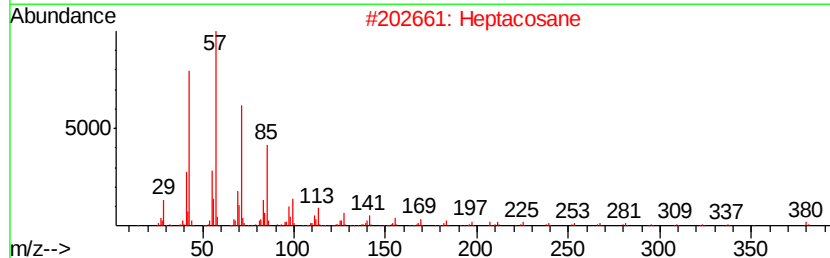
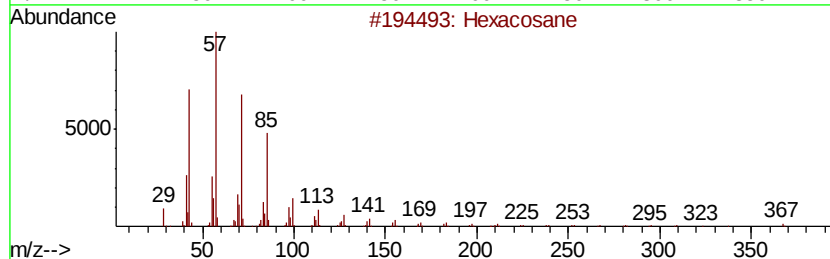
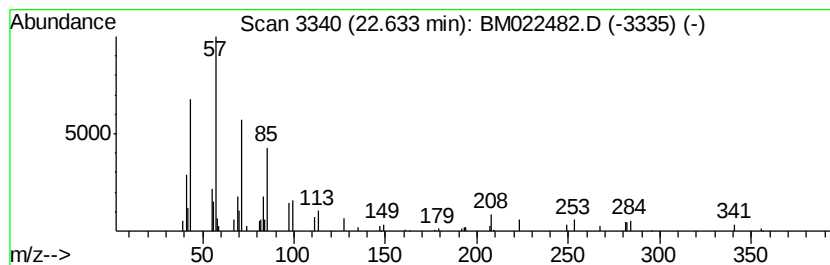
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexacosane Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 22.63 | 4.61 ng | 62537 | Perylene-d12     | 23.34 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane          | 366 | C26H54  | 000630-01-3 | 90   |
| 2    |    | Heptacosane         | 380 | C27H56  | 000593-49-7 | 90   |
| 3    |    | Tetracosane         | 338 | C24H50  | 000646-31-1 | 90   |
| 4    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Docosane, 11-butyl- | 366 | C26H54  | 013475-76-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\  
Data File : BM022482.D  
Acq On : 01 Sep 2019 18:12  
Operator : HP/JU  
Sample : K4555-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

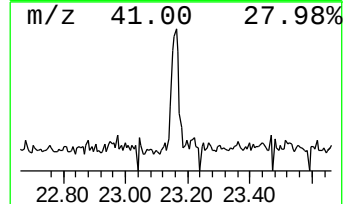
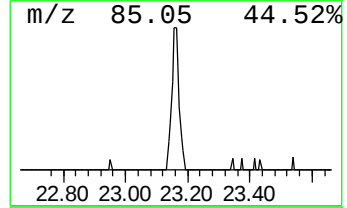
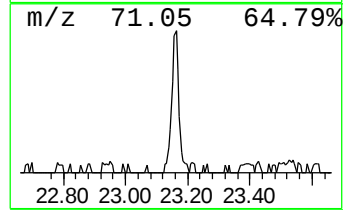
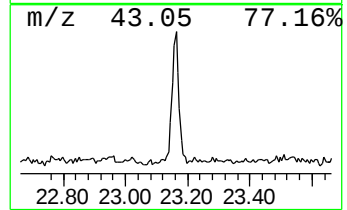
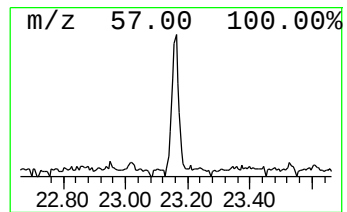
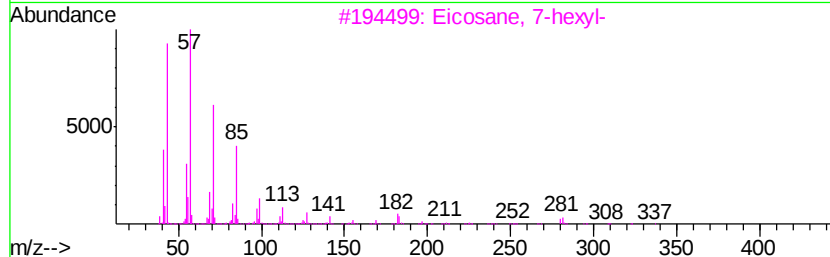
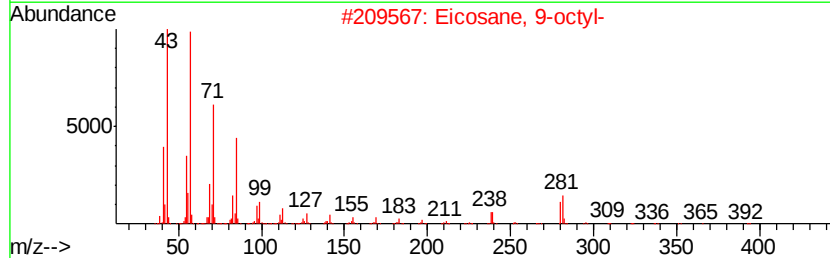
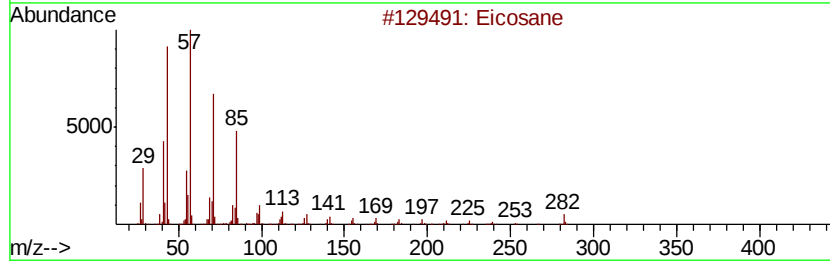
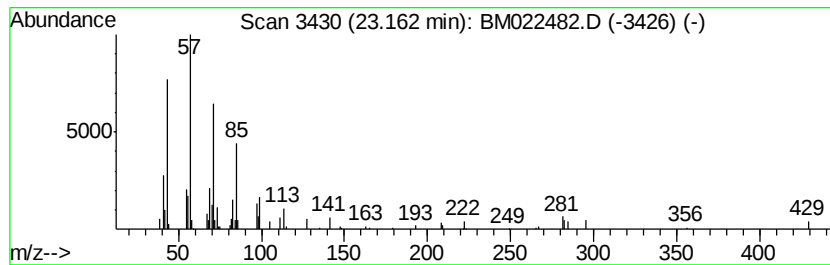
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Eicosane Concentration Rank 3

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 23.16 | 4.93 ng | 66965 | Perylene-d12     | 23.34 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane            |              | 282 | C20H42  | 000112-95-8 | 89   |
| 2       | Eicosane, 9-octyl-  |              | 394 | C28H58  | 013475-77-9 | 68   |
| 3       | Eicosane, 7-hexyl-  |              | 366 | C26H54  | 055333-99-8 | 64   |
| 4       | Docosane, 11-decyl- |              | 451 | C32H66  | 055401-55-3 | 64   |
| 5       | Hentriacontane      |              | 437 | C31H64  | 000630-04-6 | 62   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\  
Data File : BM022482.D  
Acq On : 01 Sep 2019 18:12  
Operator : HP/JU  
Sample : K4555-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

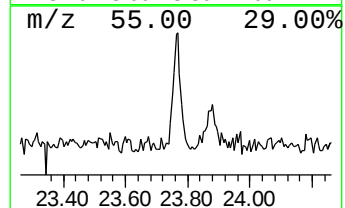
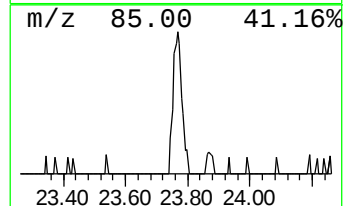
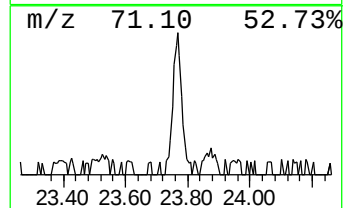
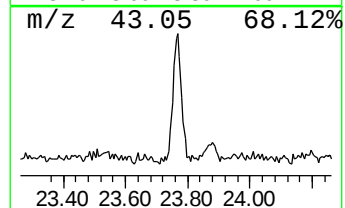
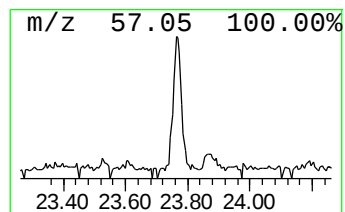
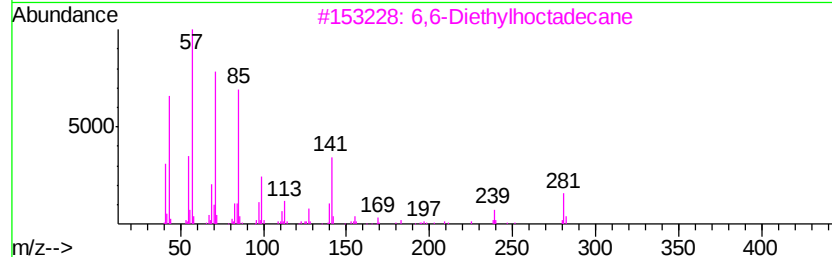
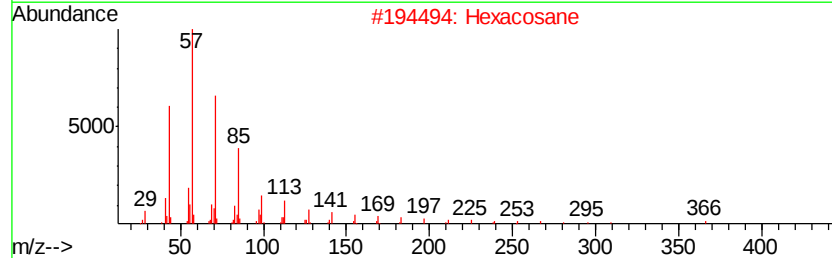
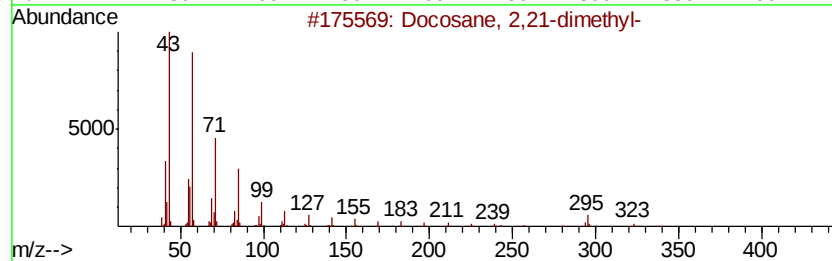
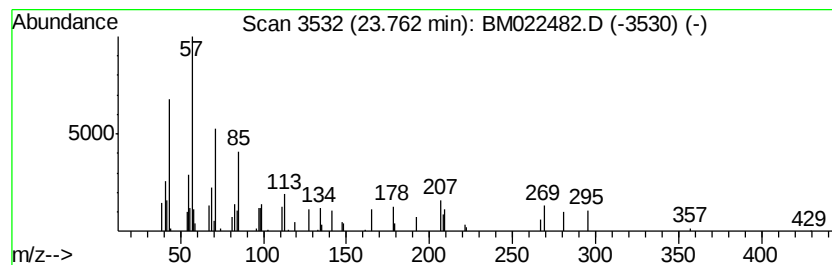
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Docosane, 2,21-dimethyl- Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 23.76 | 3.20 ng | 43455 | Perylene-d12     | 23.34 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------|-----|---------|--------------|------|
| 1    |    |   | Docosane, 2,21-dimethyl- | 338 | C24H50  | 077536-31-3  | 50   |
| 2    |    |   | Hexacosane               | 366 | C26H54  | 000630-01-3  | 47   |
| 3    |    |   | 6,6-Diethylhooctadecane  | 310 | C22H46  | 1000360-41-8 | 47   |
| 4    |    |   | Heptacosane              | 380 | C27H56  | 000593-49-7  | 46   |
| 5    |    |   | Hentriacontane           | 437 | C31H64  | 000630-04-6  | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM090119\  
Data File : BM022482.D  
Acq On : 01 Sep 2019 18:12  
Operator : HP/JU  
Sample : K4555-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TW-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM082919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown7.05          | 7.05  | 110.7   | ng    | 342762   | 1                     | 7.50  | 61928  | 20.0 |
| n-Hexadecanoic acid  | 17.83 | 4.6     | ng    | 28504    | 4                     | 16.95 | 123430 | 20.0 |
| Methoxyacetic aci... | 20.84 | 4.5     | ng    | 57938    | 5                     | 21.16 | 258392 | 20.0 |
| Heptadecane          | 21.28 | 2.5     | ng    | 32758    | 5                     | 21.16 | 258392 | 20.0 |
| Tetratetracontane    | 21.70 | 2.6     | ng    | 33791    | 5                     | 21.16 | 258392 | 20.0 |
| Tricosane, 2-methyl- | 22.14 | 3.9     | ng    | 50716    | 5                     | 21.16 | 258392 | 20.0 |
| Hexacosane           | 22.63 | 4.6     | ng    | 62537    | 6                     | 23.34 | 271605 | 20.0 |
| Eicosane             | 23.16 | 4.9     | ng    | 66965    | 6                     | 23.34 | 271605 | 20.0 |
| Docosane, 2,21-di... | 23.76 | 3.2     | ng    | 43455    | 6                     | 23.34 | 271605 | 20.0 |