

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
 Data File : BF125464.D  
 Acq On : 14 Sep 2021 2:09  
 Operator : JU/CG  
 Sample : M3718-01 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-091021

Integration Parameters: rteint.p

Integrator: RTE

Smoother: 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\_F\METHODS\8270-BF081821.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF125464.D\data.ms

| 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         | 2.134       | 3             | 8           | 13           | rBV      | 244554         | 299917        | 16.10%          | 1.658%        |
| 2         | 5.093       | 507           | 511         | 520          | rBV      | 80366          | 92469         | 4.96%           | 0.511%        |
| 3         | 5.510       | 578           | 582         | 597          | rBV      | 547849         | 640459        | 34.37%          | 3.542%        |
| 4         | 6.522       | 750           | 754         | 768          | rBV      | 560343         | 645458        | 34.64%          | 3.569%        |
| 5         | 6.887       | 812           | 816         | 826          | rBV      | 1048550        | 838621        | 45.01%          | 4.637%        |
| 6         | 7.445       | 908           | 911         | 920          | rBV      | 359771         | 352565        | 18.92%          | 1.950%        |
| 7         | 7.692       | 949           | 953         | 959          | rVB5     | 19555          | 22124         | 1.19%           | 0.122%        |
| 8         | 8.098       | 1014          | 1022        | 1025         | rBV3     | 26709          | 70609         | 3.79%           | 0.390%        |
| 9         | 8.169       | 1031          | 1034        | 1038         | rBV      | 1086660        | 923448        | 49.56%          | 5.107%        |
| 10        | 8.457       | 1079          | 1083        | 1087         | rBV5     | 16643          | 20410         | 1.10%           | 0.113%        |
| 11        | 8.757       | 1131          | 1134        | 1137         | rBV      | 26776          | 27340         | 1.47%           | 0.151%        |
| 12        | 9.245       | 1213          | 1217        | 1222         | rBV      | 773280         | 614279        | 32.97%          | 3.397%        |
| 13        | 9.322       | 1227          | 1230        | 1234         | rVV      | 48679          | 44167         | 2.37%           | 0.244%        |
| 14        | 9.392       | 1240          | 1242        | 1245         | rVB      | 23099          | 20807         | 1.12%           | 0.115%        |
| 15        | 9.639       | 1280          | 1284        | 1288         | rBV3     | 36995          | 41903         | 2.25%           | 0.232%        |
| 16        | 9.792       | 1306          | 1310        | 1313         | rBV      | 39069          | 38732         | 2.08%           | 0.214%        |
| 17        | 9.851       | 1317          | 1320        | 1324         | rVB      | 74347          | 63219         | 3.39%           | 0.350%        |
| 18        | 9.927       | 1330          | 1333        | 1337         | rBV      | 1123541        | 934752        | 50.17%          | 5.169%        |
| 19        | 9.963       | 1337          | 1339        | 1342         | rVB2     | 24664          | 20763         | 1.11%           | 0.115%        |
| 20        | 10.086      | 1356          | 1360        | 1362         | rBV5     | 17828          | 20695         | 1.11%           | 0.114%        |
| 21        | 10.139      | 1366          | 1369        | 1372         | rVB4     | 21561          | 24554         | 1.32%           | 0.136%        |
| 22        | 10.169      | 1372          | 1374        | 1378         | rBV3     | 32452          | 37892         | 2.03%           | 0.210%        |
| 23        | 10.239      | 1384          | 1386        | 1390         | rBV4     | 20964          | 32286         | 1.73%           | 0.179%        |
| 24        | 10.351      | 1399          | 1405        | 1407         | rBV      | 121493         | 104783        | 5.62%           | 0.579%        |
| 25        | 10.475      | 1421          | 1426        | 1429         | rBV3     | 26816          | 39379         | 2.11%           | 0.218%        |
| 26        | 10.569      | 1438          | 1442        | 1445         | rBV      | 52441          | 59665         | 3.20%           | 0.330%        |
| 27        | 10.722      | 1465          | 1468        | 1472         | rBV      | 329348         | 325482        | 17.47%          | 1.800%        |
| 28        | 10.822      | 1482          | 1485        | 1493         | rVB      | 136606         | 200825        | 10.78%          | 1.111%        |
| 29        | 11.016      | 1516          | 1518        | 1522         | rBV4     | 17749          | 23488         | 1.26%           | 0.130%        |
| 30        | 11.051      | 1522          | 1524        | 1527         | rVB3     | 26390          | 21871         | 1.17%           | 0.121%        |
| 31        | 11.151      | 1537          | 1541        | 1543         | rBV5     | 21021          | 31047         | 1.67%           | 0.172%        |
| 32        | 11.274      | 1559          | 1562        | 1564         | rBV      | 131231         | 111630        | 5.99%           | 0.617%        |
| 33        | 11.304      | 1564          | 1567        | 1573         | rVB2     | 89496          | 114927        | 6.17%           | 0.636%        |
| 34        | 11.422      | 1583          | 1587        | 1589         | rBV      | 1062330        | 982150        | 52.71%          | 5.431%        |
| 35        | 11.445      | 1589          | 1591        | 1597         | rVV      | 259173         | 239794        | 12.87%          | 1.326%        |
| 36        | 11.492      | 1597          | 1599        | 1603         | rVV      | 56409          | 51165         | 2.75%           | 0.283%        |

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Instrument :  
 BNA\_F  
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 OR-03-091021

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\_F\METHODS\8270-BF081821.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 11.580 | 1612 | 1614 | 1619 | rVB4 | 17682   | 20468   | 1.10%   | 0.113%  |
| 38 | 11.651 | 1623 | 1626 | 1632 | rVV2 | 45113   | 60984   | 3.27%   | 0.337%  |
| 39 | 11.698 | 1632 | 1634 | 1637 | rVV  | 133879  | 112449  | 6.04%   | 0.622%  |
| 40 | 11.751 | 1641 | 1643 | 1648 | rVB4 | 30545   | 39719   | 2.13%   | 0.220%  |
| 41 | 11.804 | 1648 | 1652 | 1655 | rBV  | 655053  | 532140  | 28.56%  | 2.943%  |
| 42 | 11.939 | 1669 | 1675 | 1682 | rBV2 | 215601  | 328396  | 17.63%  | 1.816%  |
| 43 | 11.998 | 1682 | 1685 | 1688 | rBV  | 36831   | 37369   | 2.01%   | 0.207%  |
| 44 | 12.033 | 1688 | 1691 | 1693 | rBV2 | 85222   | 88899   | 4.77%   | 0.492%  |
| 45 | 12.110 | 1701 | 1704 | 1706 | rBV  | 123688  | 109853  | 5.90%   | 0.607%  |
| 46 | 12.216 | 1719 | 1722 | 1724 | rBV  | 43817   | 40773   | 2.19%   | 0.225%  |
| 47 | 12.245 | 1725 | 1727 | 1732 | rVB3 | 30782   | 36754   | 1.97%   | 0.203%  |
| 48 | 12.351 | 1743 | 1745 | 1746 | rBV  | 24250   | 21504   | 1.15%   | 0.119%  |
| 49 | 12.398 | 1750 | 1753 | 1755 | rVV2 | 43585   | 43820   | 2.35%   | 0.242%  |
| 50 | 12.421 | 1755 | 1757 | 1760 | rVB3 | 34309   | 28775   | 1.54%   | 0.159%  |
| 51 | 12.492 | 1762 | 1769 | 1771 | rBV  | 1783556 | 1863155 | 100.00% | 10.303% |
| 52 | 12.510 | 1771 | 1772 | 1778 | rVB  | 1988587 | 1695950 | 91.03%  | 9.378%  |
| 53 | 12.563 | 1778 | 1781 | 1784 | rBV3 | 42801   | 48630   | 2.61%   | 0.269%  |
| 54 | 12.598 | 1784 | 1787 | 1790 | rVB  | 377958  | 320497  | 17.20%  | 1.772%  |
| 55 | 12.639 | 1790 | 1794 | 1803 | rBV  | 661465  | 981083  | 52.66%  | 5.425%  |
| 56 | 12.733 | 1807 | 1810 | 1812 | rVV3 | 56577   | 60794   | 3.26%   | 0.336%  |
| 57 | 12.868 | 1830 | 1833 | 1839 | rVB  | 596846  | 565808  | 30.37%  | 3.129%  |
| 58 | 12.921 | 1839 | 1842 | 1846 | rBV2 | 65122   | 64597   | 3.47%   | 0.357%  |
| 59 | 13.004 | 1853 | 1856 | 1859 | rVB  | 689614  | 527988  | 28.34%  | 2.920%  |
| 60 | 13.080 | 1866 | 1869 | 1873 | rBV4 | 63777   | 103437  | 5.55%   | 0.572%  |
| 61 | 13.227 | 1891 | 1894 | 1896 | rBV  | 119461  | 101162  | 5.43%   | 0.559%  |
| 62 | 13.298 | 1904 | 1906 | 1908 | rBV2 | 60760   | 57150   | 3.07%   | 0.316%  |
| 63 | 13.568 | 1950 | 1952 | 1955 | rBV  | 110604  | 97155   | 5.21%   | 0.537%  |
| 64 | 14.068 | 2032 | 2037 | 2039 | rBV2 | 837398  | 867339  | 46.55%  | 4.796%  |
| 65 | 14.092 | 2039 | 2041 | 2044 | rVB  | 185376  | 160762  | 8.63%   | 0.889%  |
| 66 | 14.215 | 2060 | 2062 | 2065 | rBV  | 122393  | 102998  | 5.53%   | 0.570%  |
| 67 | 14.521 | 2112 | 2114 | 2117 | rBV2 | 131128  | 116621  | 6.26%   | 0.645%  |
| 68 | 15.186 | 2224 | 2227 | 2229 | rBV2 | 142134  | 139063  | 7.46%   | 0.769%  |
| 69 | 15.568 | 2288 | 2292 | 2296 | rBV2 | 461377  | 573974  | 30.81%  | 3.174%  |

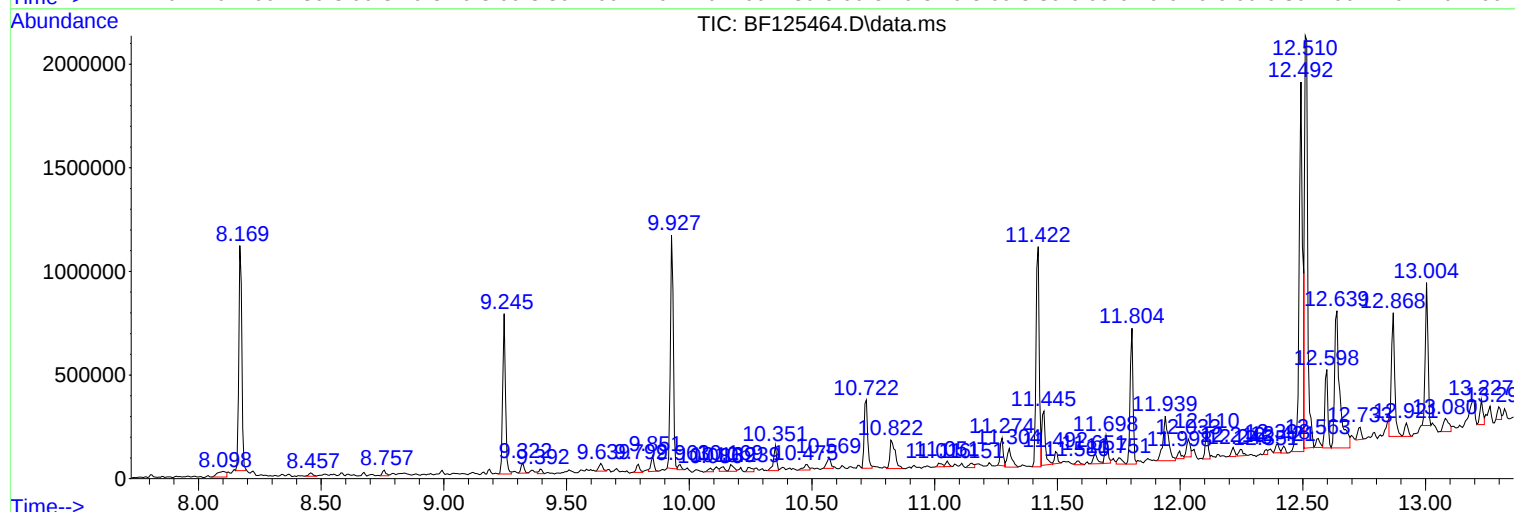
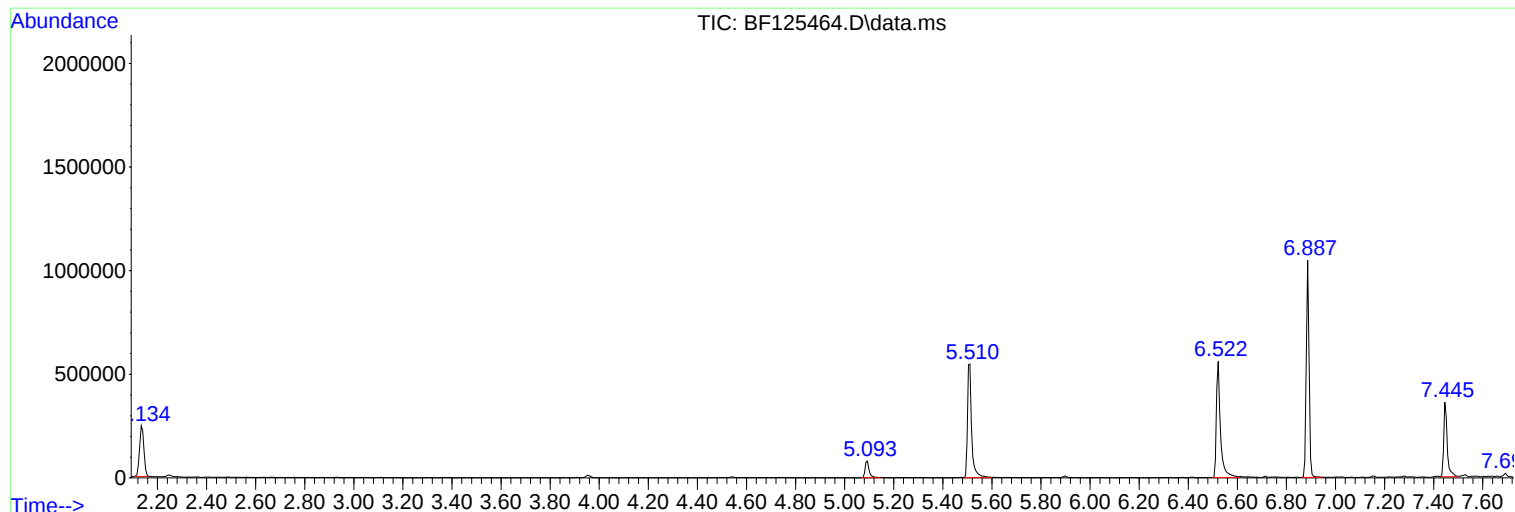
Sum of corrected areas: 18083741

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Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
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Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

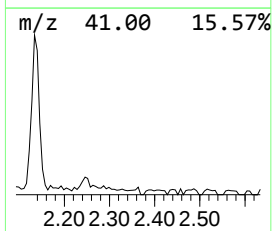
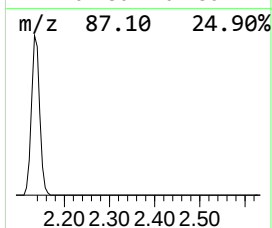
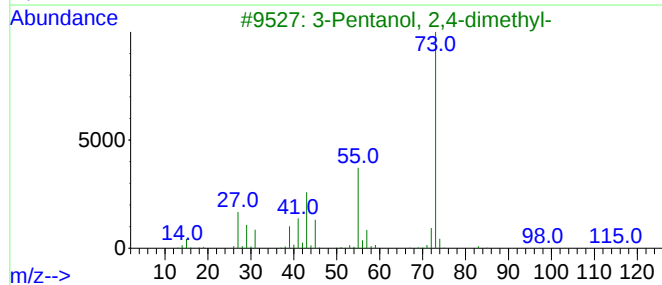
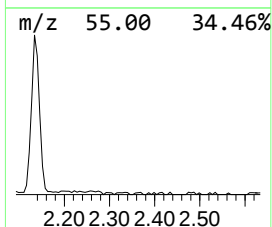
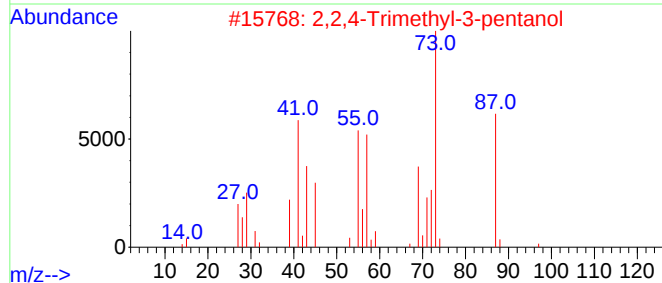
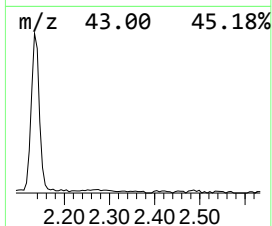
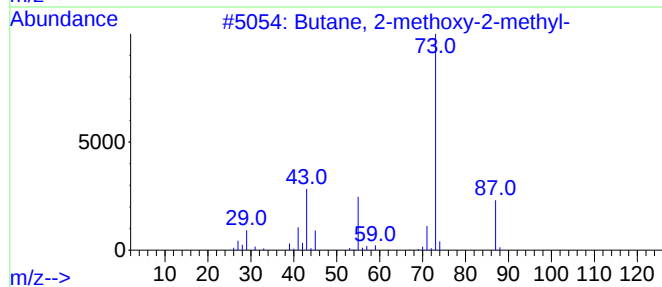
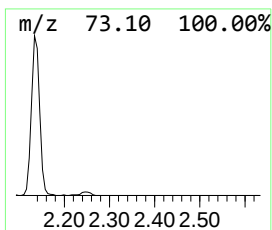
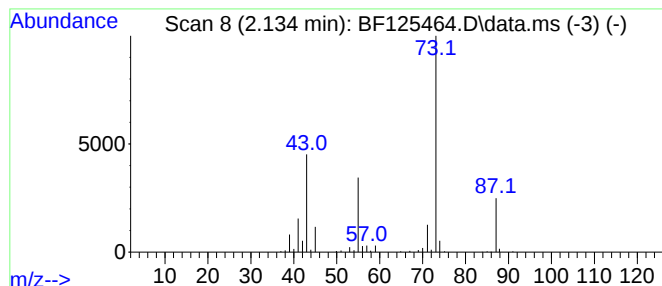
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 2.134 | 7.15 ng | 299917 | 1,4-Dichlorobenzene-d4 | 6.887 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl-    | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | 2,2,4-Trimethyl-3-pentanol     | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    |   | 3-Pentanol, 2,4-dimethyl-      | 116 | C7H16O  | 000600-36-2 | 25   |
| 4    |    |   | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 25   |
| 5    |    |   | 1-Propene-1-thiol              | 74  | C3H6S   | 000925-89-3 | 9    |



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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

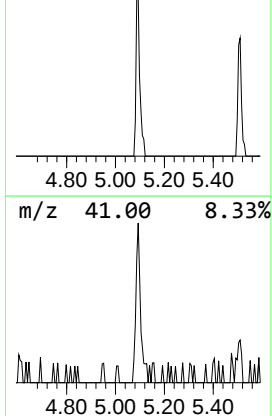
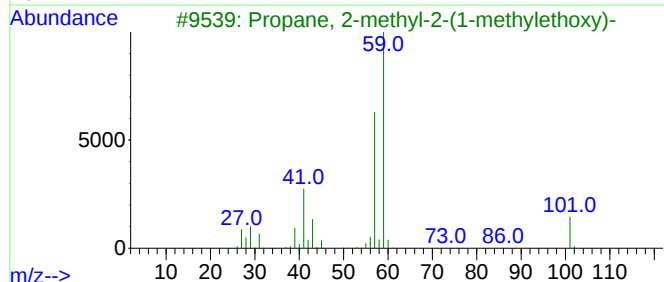
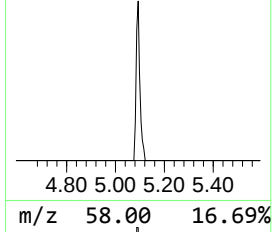
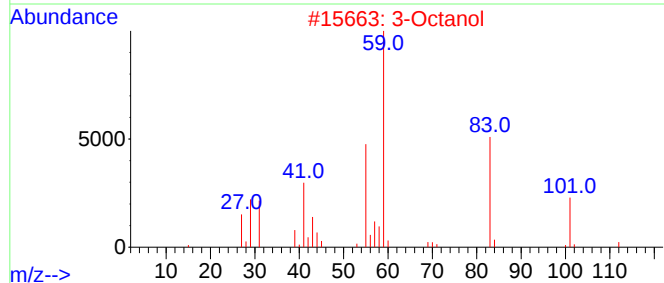
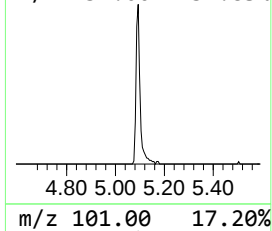
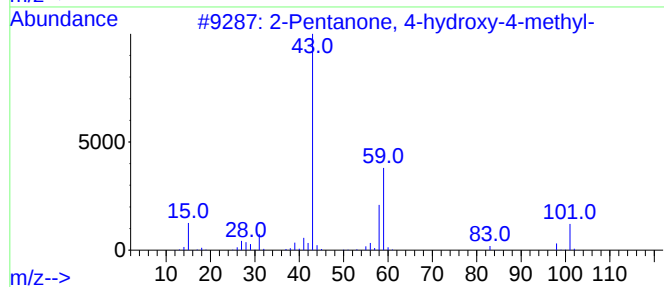
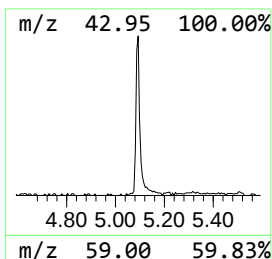
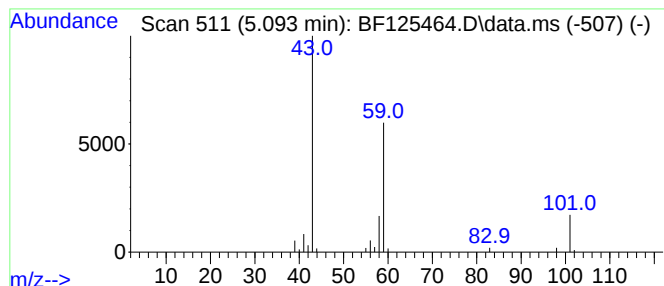
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD       | R.T.  |
|-------|---------|-------|------------------------|-------|
| 5.093 | 2.21 ng | 92469 | 1,4-Dichlorobenzene-d4 | 6.887 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    |   | 3-Octanol                           | 130 | C8H18O  | 000589-98-0 | 33   |
| 3    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 33   |
| 4    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O  | 000615-29-2 | 28   |
| 5    |    |   | Acetone                             | 58  | C3H6O   | 000067-64-1 | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
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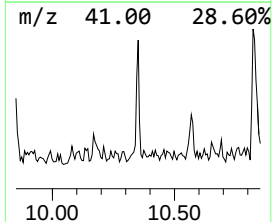
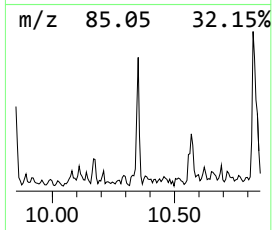
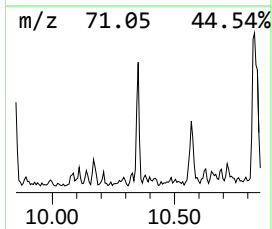
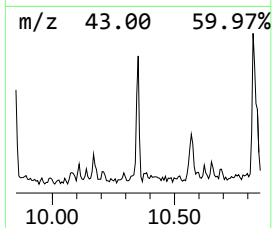
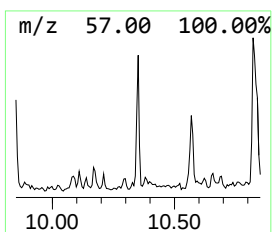
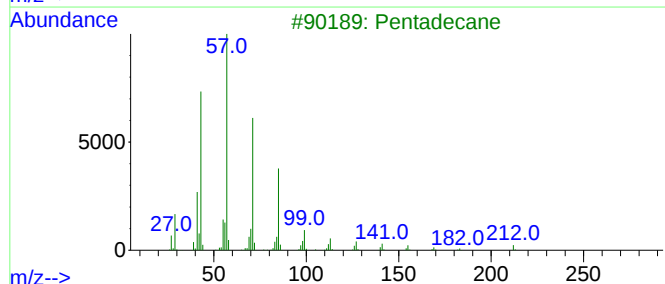
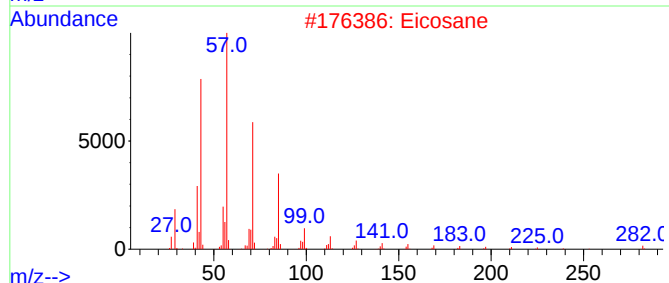
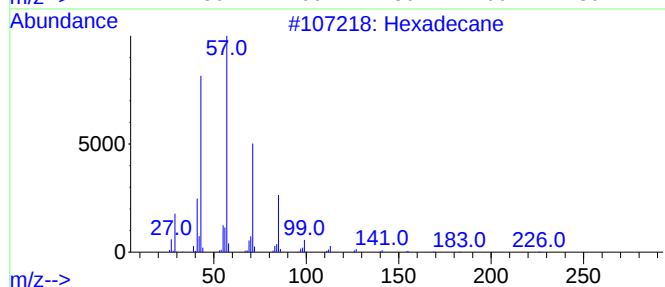
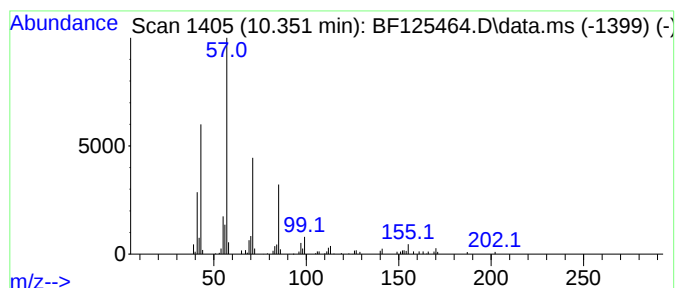
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexadecane Concentration Rank 14

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.351 | 2.24 ng | 104783 | Acenaphthene-d10 | 9.927 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane           | 226 | C16H34  | 000544-76-3 | 86   |
| 2    |    |   | Eicosane             | 282 | C20H42  | 000112-95-8 | 86   |
| 3    |    |   | Pentadecane          | 212 | C15H32  | 000629-62-9 | 78   |
| 4    |    |   | 5-Ethyldecane        | 170 | C12H26  | 017302-36-2 | 74   |
| 5    |    |   | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 72   |



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Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

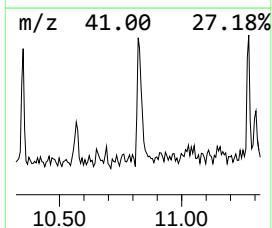
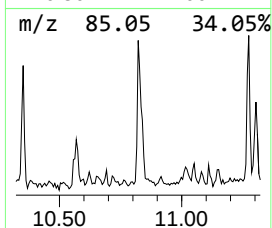
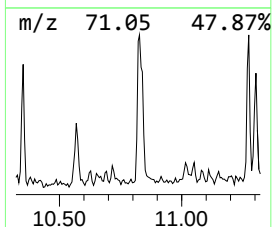
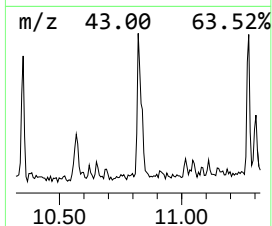
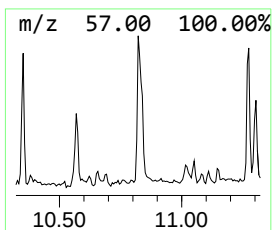
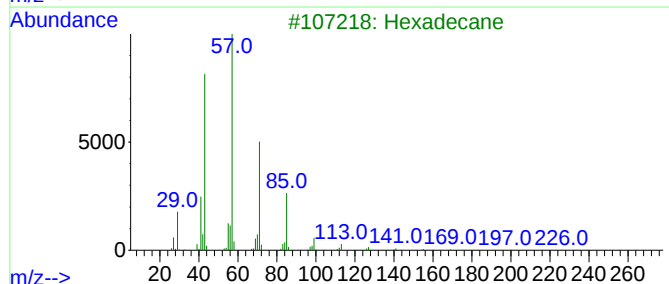
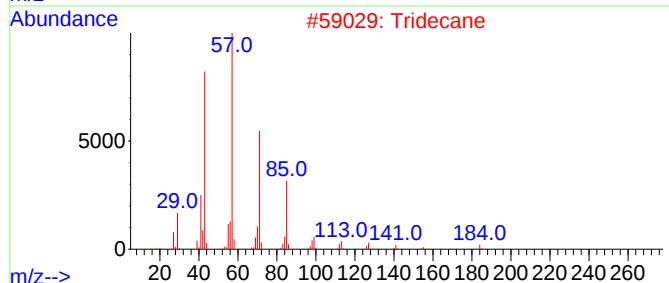
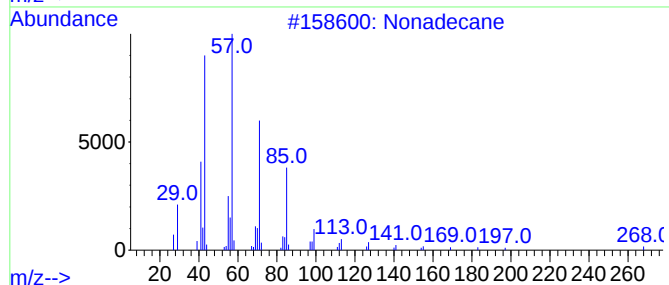
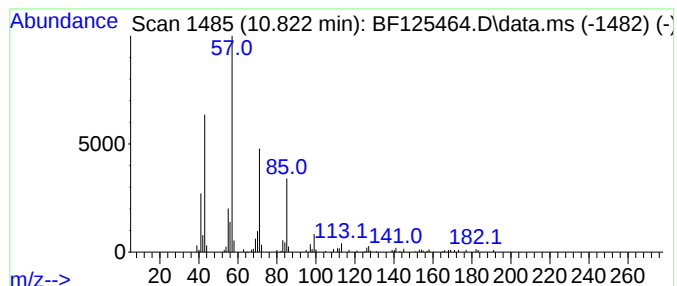
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Nonadecane Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 10.822 | 4.09 ng | 200825 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Nonadecane                         | 268 | C19H40   | 000629-92-5  | 86   |
| 2    |    |   | Tridecane                          | 184 | C13H28   | 000629-50-5  | 86   |
| 3    |    |   | Hexadecane                         | 226 | C16H34   | 000544-76-3  | 86   |
| 4    |    |   | Pentadecane                        | 212 | C15H32   | 000629-62-9  | 80   |
| 5    |    |   | Carbonic acid, eicosyl vinyl ester | 368 | C23H44O3 | 1000382-54-3 | 78   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

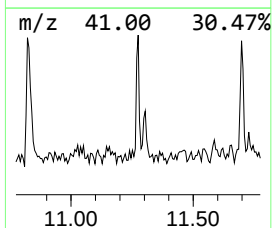
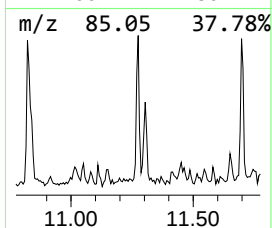
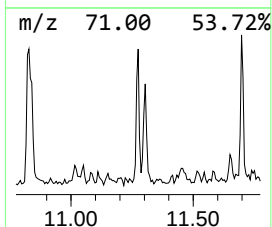
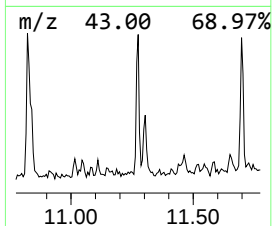
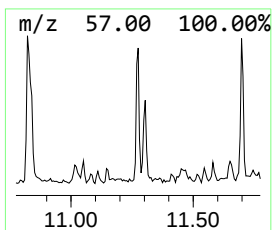
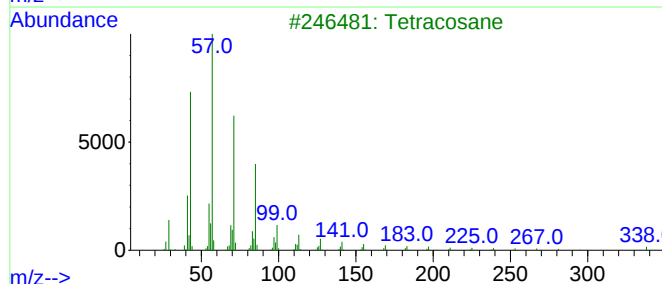
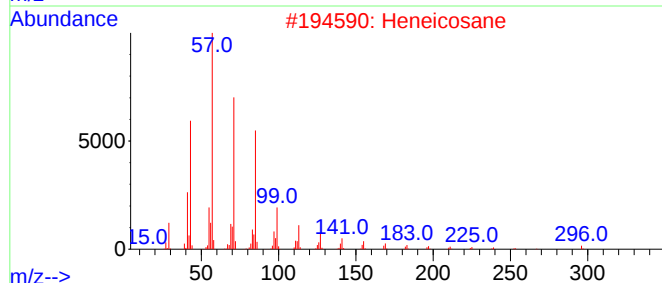
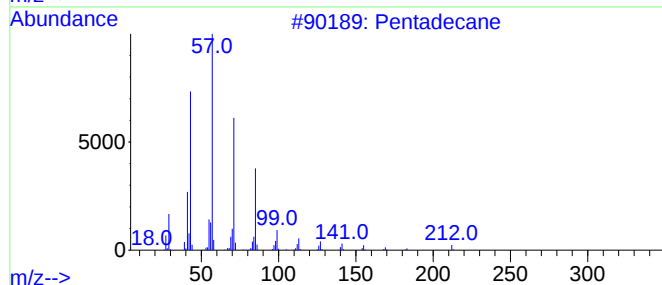
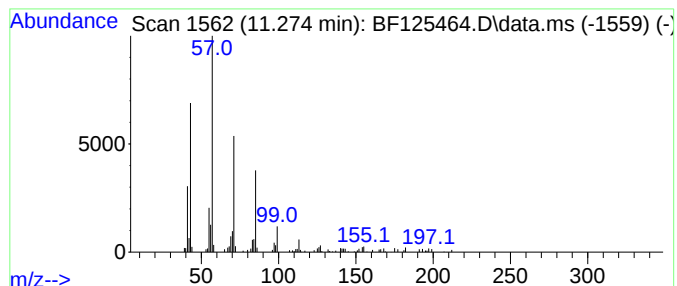
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pentadecane Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.275 | 2.27 ng | 111630 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 87   |
| 2    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 83   |
| 3    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 80   |
| 4    |    |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 80   |
| 5    |    |   | Nonadecane   | 268 | C19H40  | 000629-92-5 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

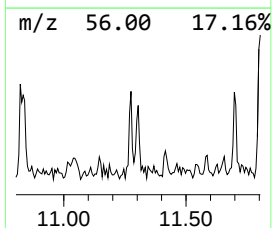
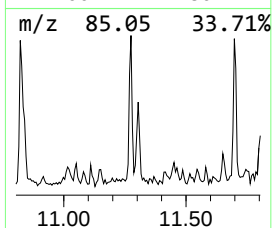
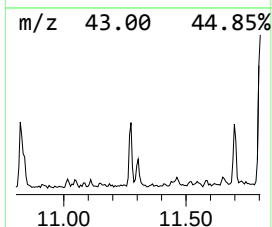
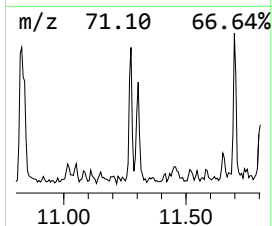
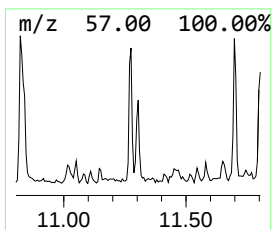
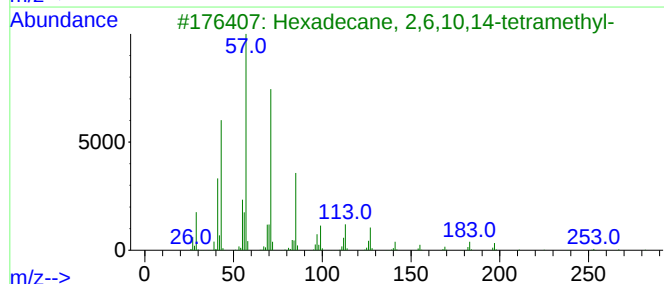
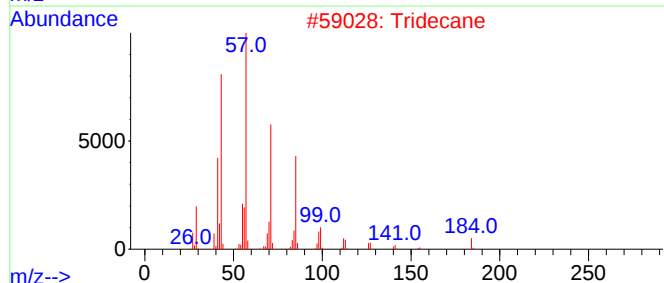
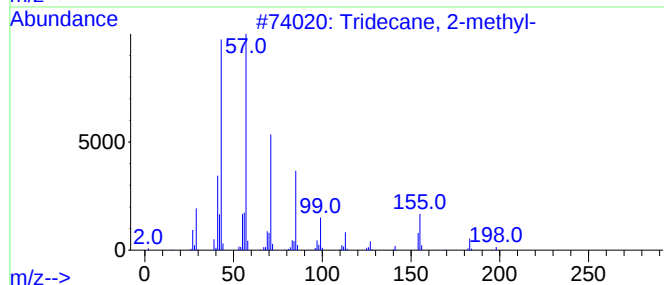
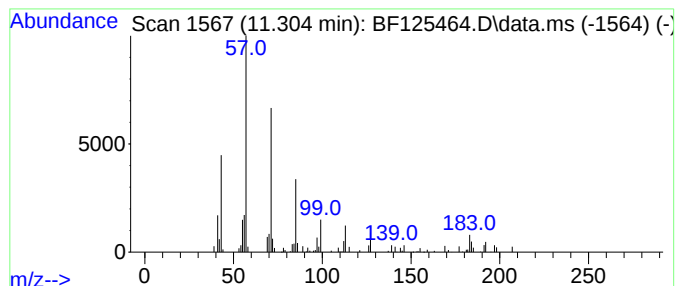
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Tridecane, 2-methyl- Concentration Rank 10

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.304 | 2.34 ng | 114927 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane, 2-methyl-                | 198 | C14H30  | 001560-96-9 | 87   |
| 2    |    |   | Tridecane                           | 184 | C13H28  | 000629-50-5 | 72   |
| 3    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42  | 000638-36-8 | 64   |
| 4    |    |   | 5,5-Dibutylnonane                   | 240 | C17H36  | 006008-17-9 | 64   |
| 5    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

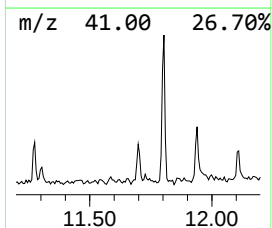
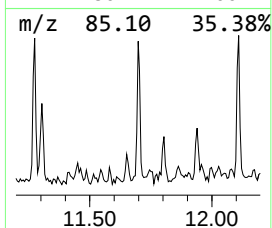
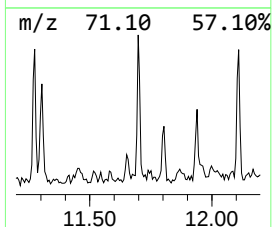
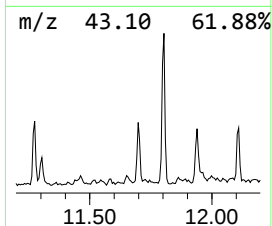
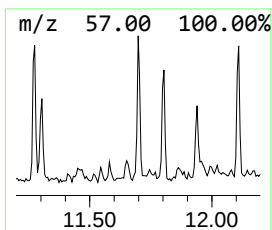
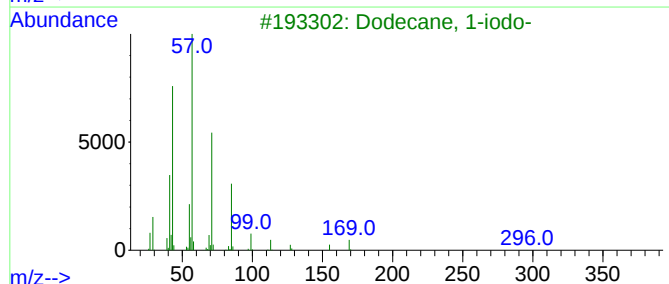
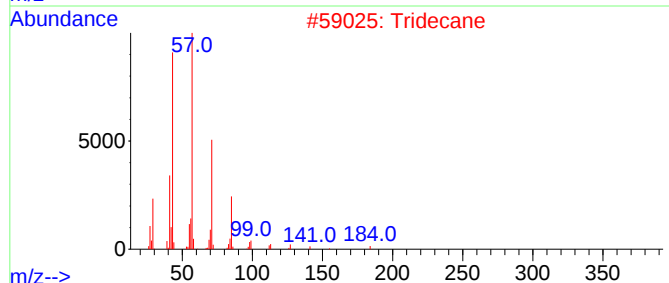
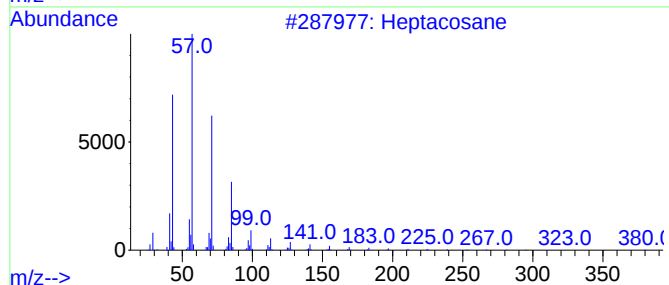
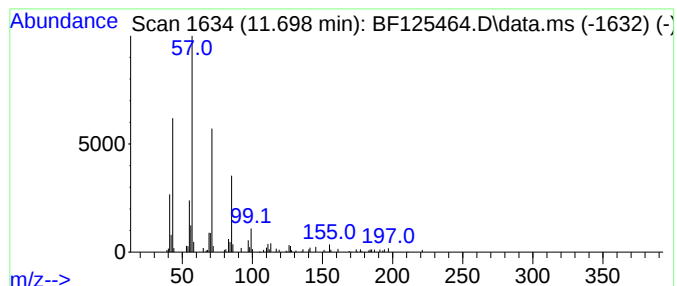
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptacosane Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.698 | 2.29 ng | 112449 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Heptacosane       | 380 | C27H56  | 000593-49-7 | 86   |
| 2    |    |   | Tridecane         | 184 | C13H28  | 000629-50-5 | 83   |
| 3    |    |   | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 80   |
| 4    |    |   | Pentadecane       | 212 | C15H32  | 000629-62-9 | 80   |
| 5    |    |   | Hexadecane        | 226 | C16H34  | 000544-76-3 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

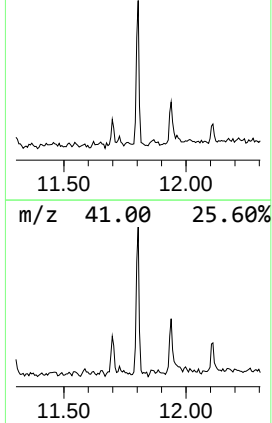
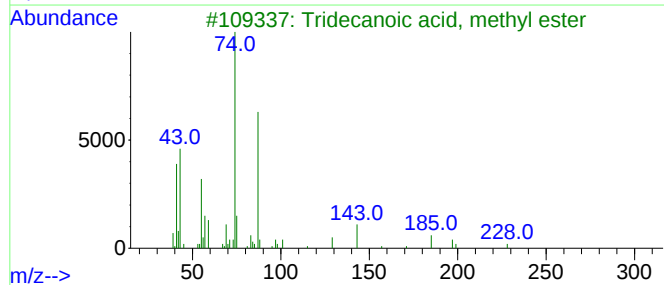
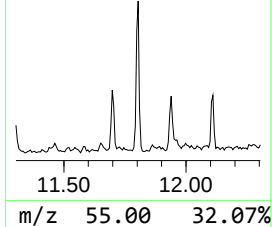
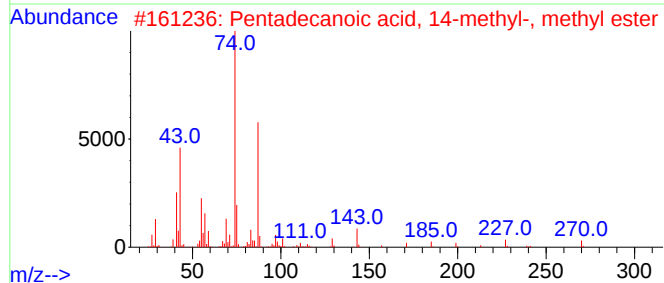
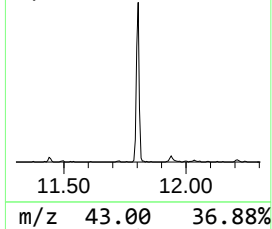
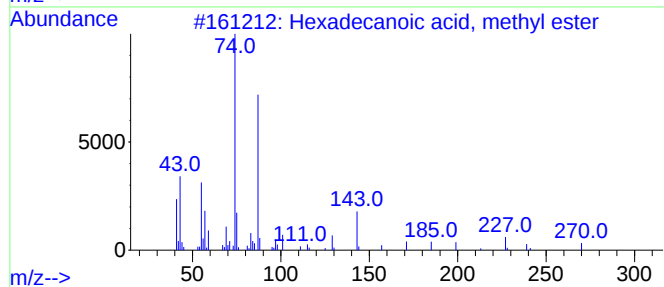
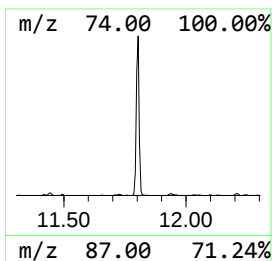
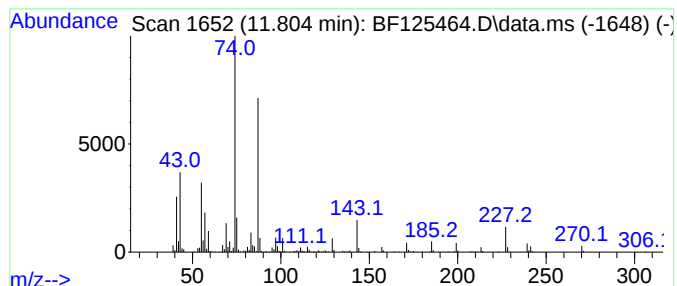
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.804 | 10.84 ng | 532140 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    |   | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 94   |
| 3    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 93   |
| 4    |    |   | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 87   |
| 5    |    |   | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

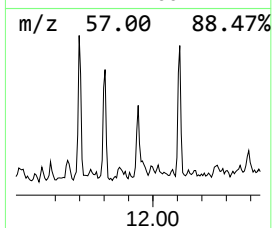
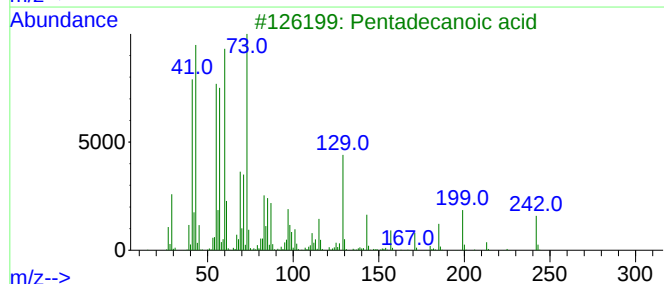
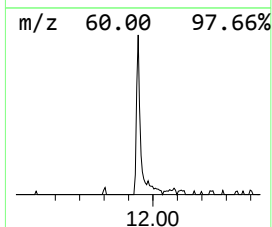
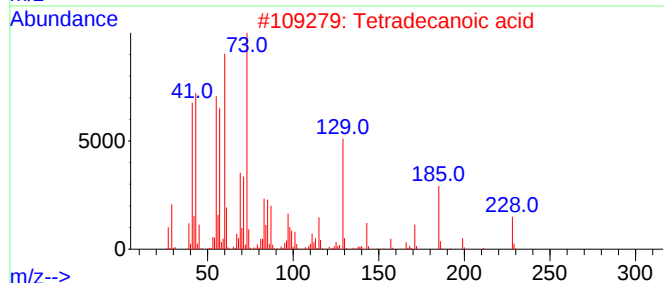
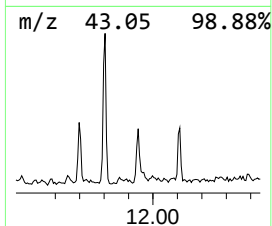
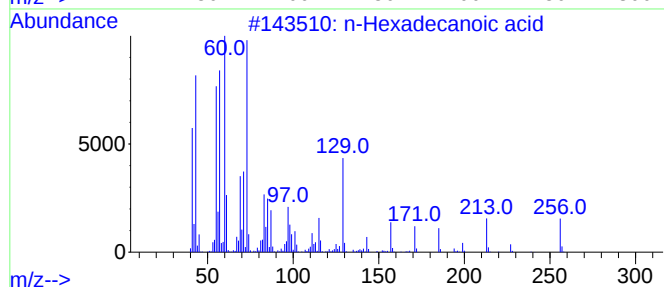
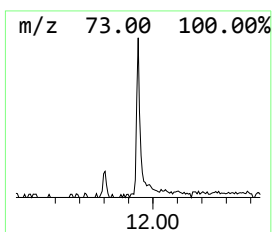
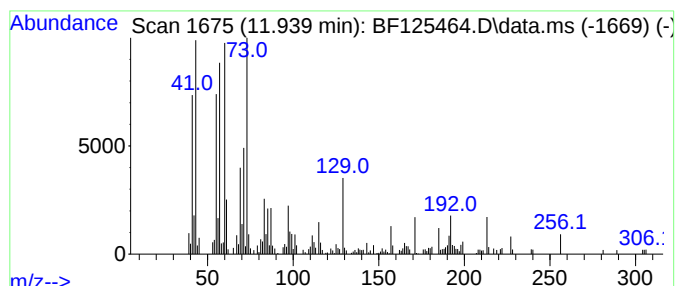
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.939    | 6.69 ng             | 328396 | Phenanthrene-d10 | 11.422      |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99   |
| 2         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 90   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 87   |
| 4         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 76   |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 70   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

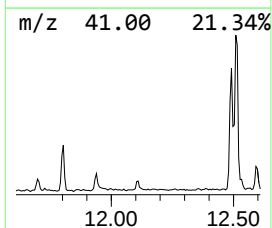
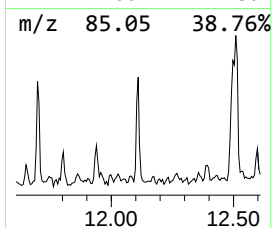
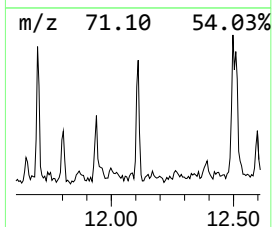
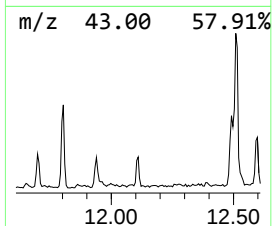
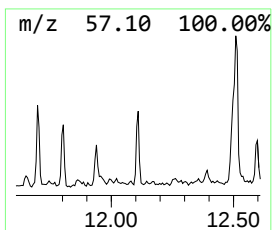
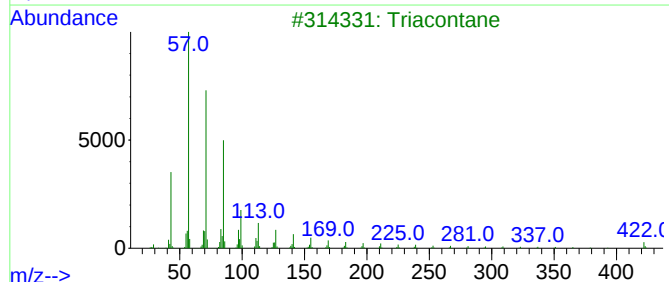
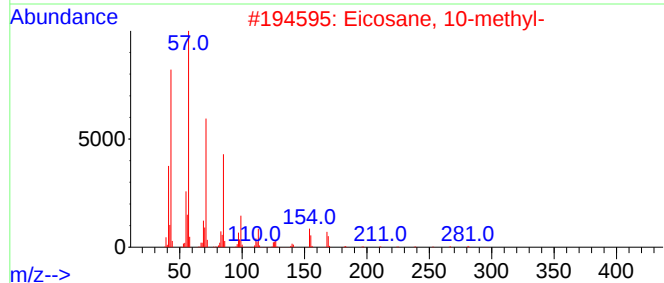
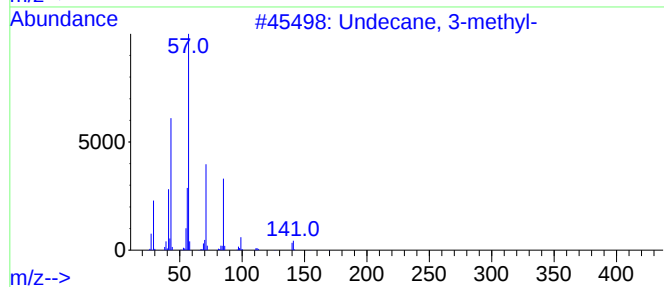
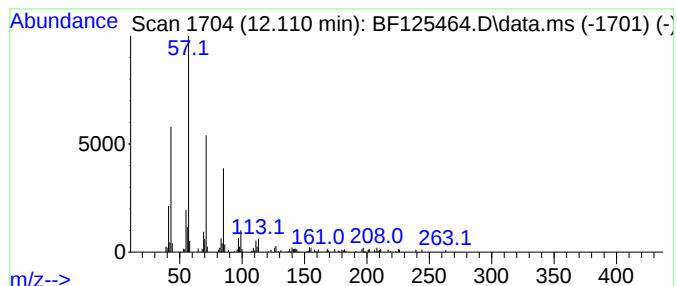
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 Undecane, 3-methyl- Concentration Rank 16

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.110 | 2.24 ng | 109853 | Phenanthrene-d10 | 11.422 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Undecane, 3-methyl-   | 170 | C12H26  | 001002-43-3 | 72   |
| 2    |    |   | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 72   |
| 3    |    |   | Triacontane           | 422 | C30H62  | 000638-68-6 | 64   |
| 4    |    |   | Octane, 3,5-dimethyl- | 142 | C10H22  | 015869-93-9 | 53   |
| 5    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 52   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

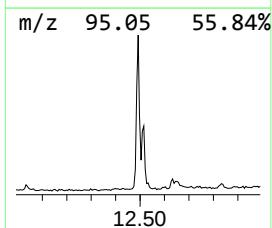
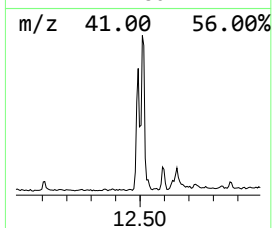
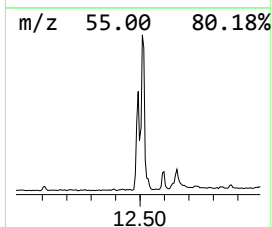
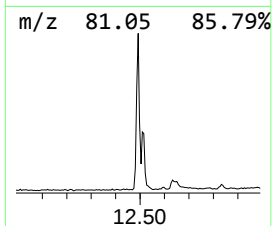
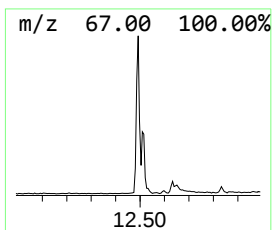
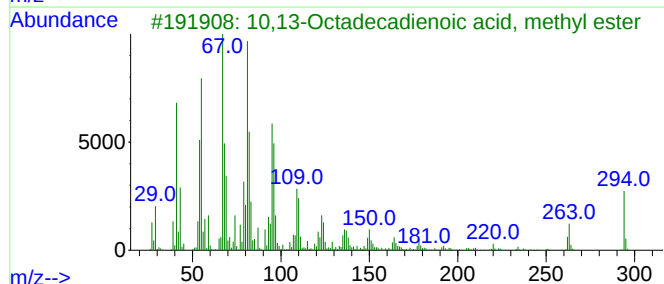
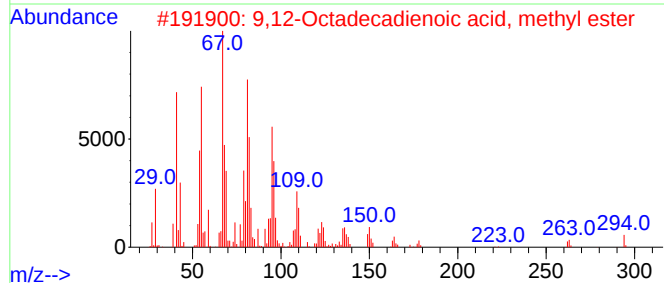
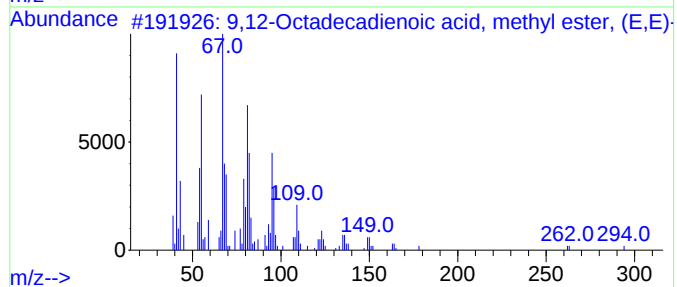
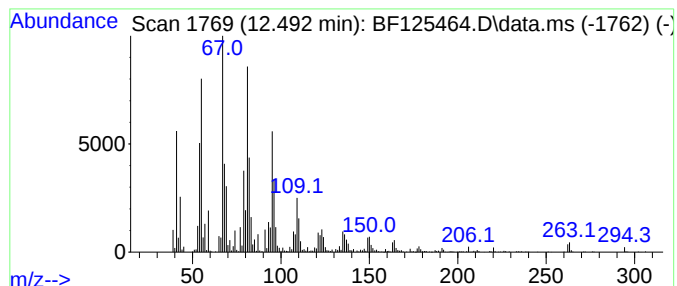
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Peak Number 11 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.492 | 37.94 ng | 1863160 | Phenanthrene-d10 | 11.422 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2     | 002566-97-4 | 99      |      |      |
| 2    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2     | 002462-85-3 | 99      |      |      |
| 3    | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2     | 056554-62-2 | 98      |      |      |
| 4    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2     | 000112-63-0 | 98      |      |      |
| 5    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2     | 017309-05-6 | 97      |      |      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

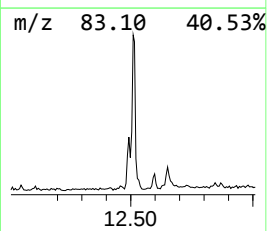
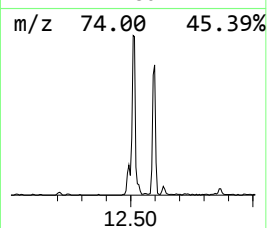
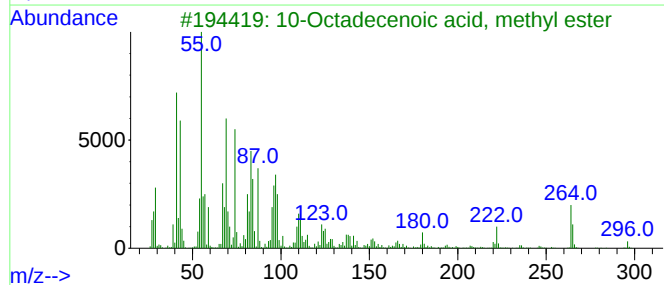
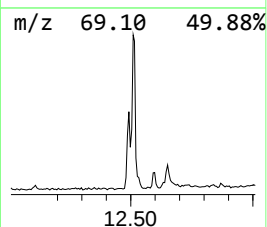
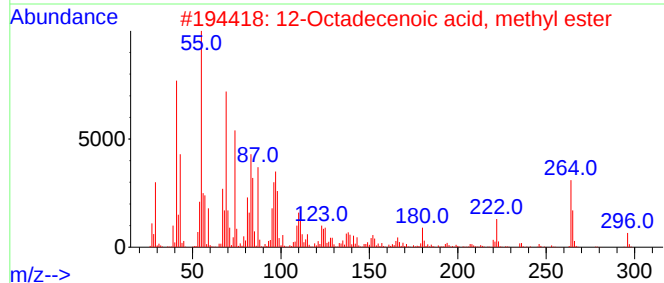
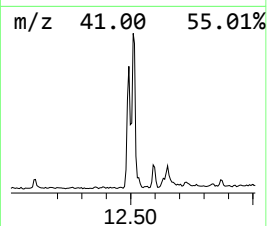
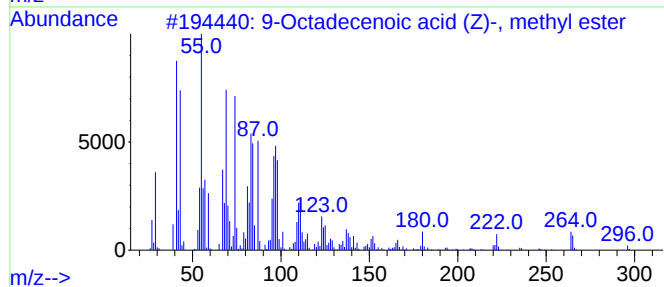
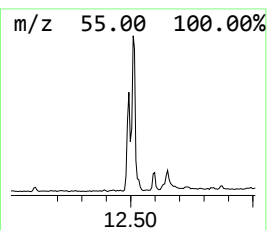
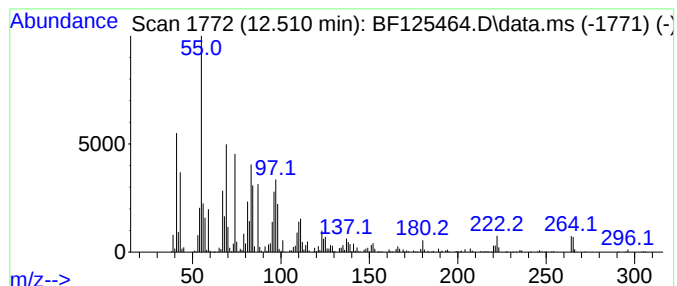
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Peak Number 12 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.510 | 34.54 ng | 1695950 | Phenanthrene-d10 | 11.422 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|------|-------------------------------------|-----|----------|-------------|------|
| 1    |      | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |      | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2 | 99   |
| 3    |      | 10-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 013481-95-3 | 99   |
| 4    |      | 11-Octadecenoic acid, methyl est... | 296 | C19H36O2 | 001937-63-9 | 99   |
| 5    |      | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 99   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
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Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

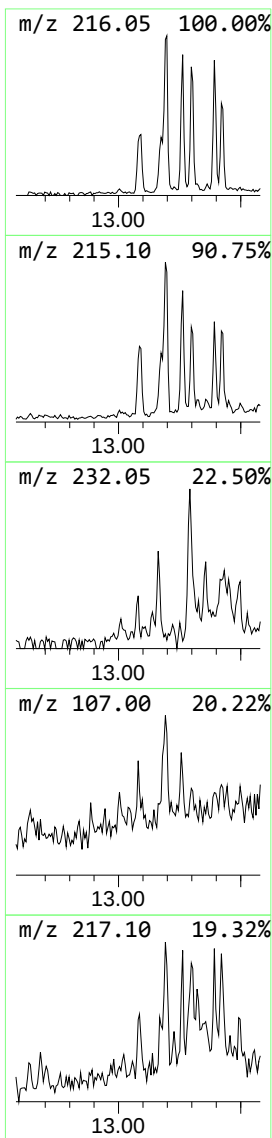
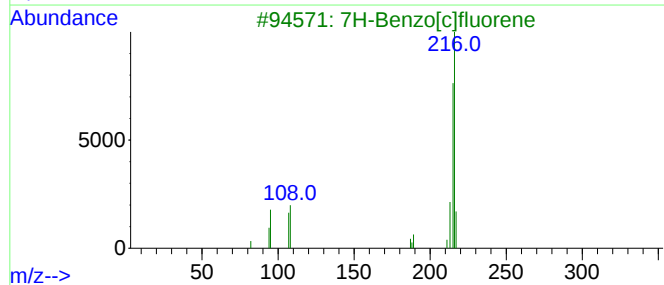
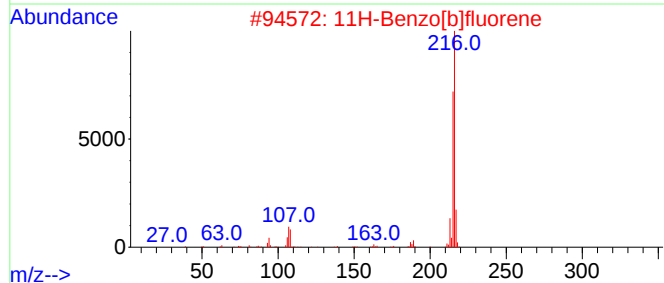
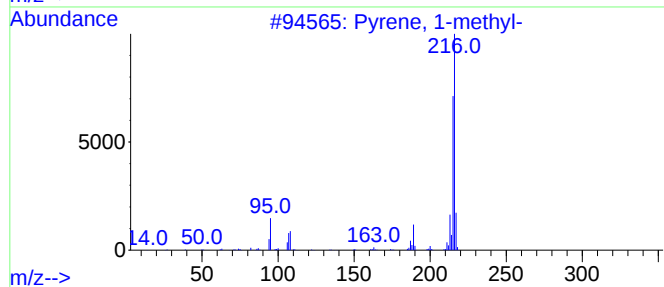
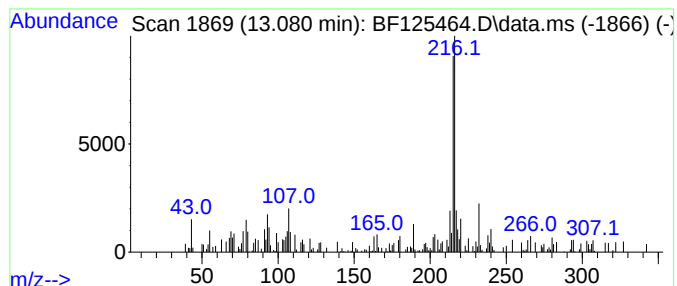
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OR-03-091021

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Pyrene, 1-methyl- Concentration Rank 8

| R.T.      | EstConc                 | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|-------------------------|--------|------------------|---------|-------------|------|
| 13.080    | 2.39 ng                 | 103437 | Chrysene-d12     |         | 14.068      |      |
| Hit# of 5 | Tentative ID            |        | MW               | MolForm | CAS#        | Qual |
| 1         | Pyrene, 1-methyl-       |        | 216              | C17H12  | 002381-21-7 | 76   |
| 2         | 11H-Benzo[b]fluorene    |        | 216              | C17H12  | 000243-17-4 | 76   |
| 3         | 7H-Benzo[c]fluorene     |        | 216              | C17H12  | 000205-12-9 | 64   |
| 4         | Fluoranthene, 2-methyl- |        | 216              | C17H12  | 033543-31-6 | 64   |
| 5         | 11H-Benzo[a]fluorene    |        | 216              | C17H12  | 000238-84-6 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

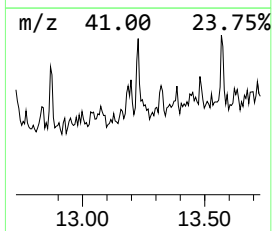
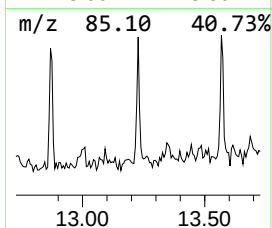
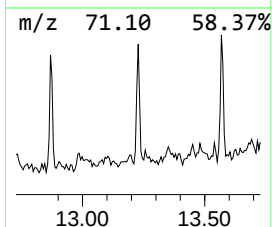
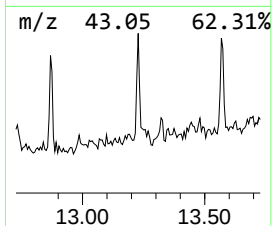
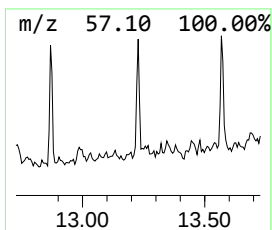
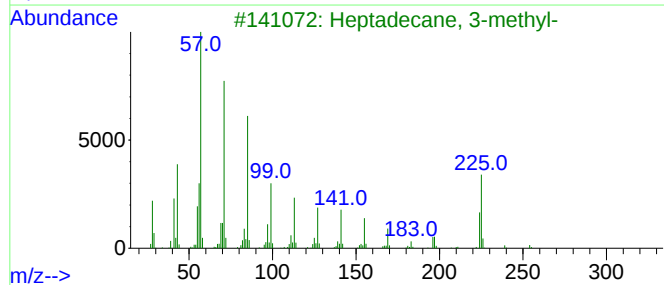
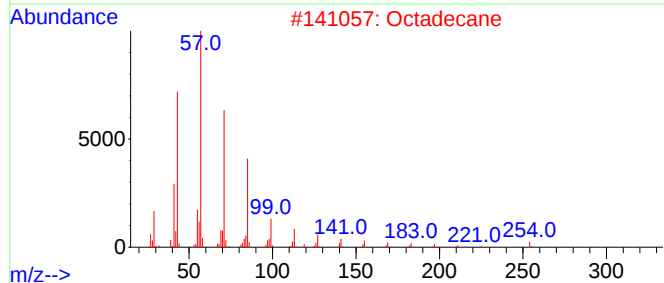
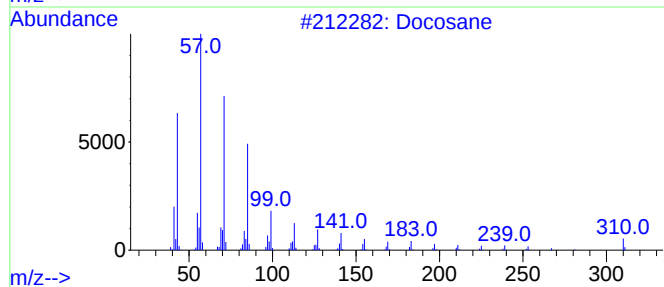
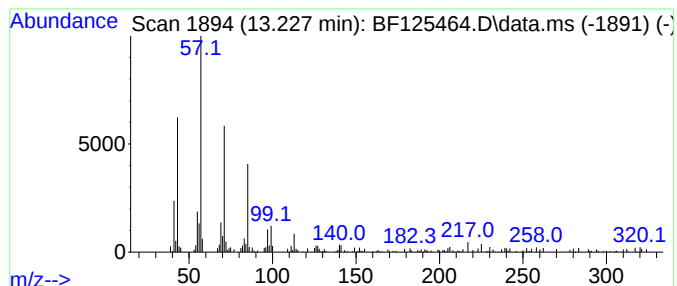
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 Docosane Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.227 | 2.33 ng | 101162 | Chrysene-d12     | 14.068 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Docosane               | 310 | C22H46  | 000629-97-0 | 91   |
| 2    |    |   | Octadecane             | 254 | C18H38  | 000593-45-3 | 81   |
| 3    |    |   | Heptadecane, 3-methyl- | 254 | C18H38  | 006418-44-6 | 80   |
| 4    |    |   | Tetracosane            | 338 | C24H50  | 000646-31-1 | 80   |
| 5    |    |   | Tricosane              | 324 | C23H48  | 000638-67-5 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

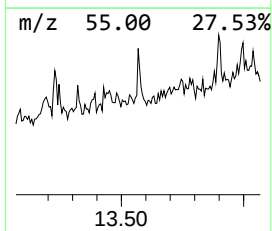
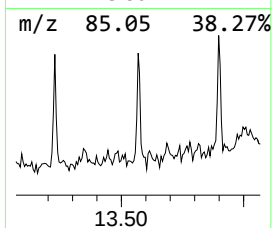
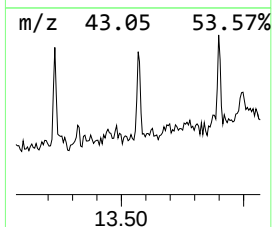
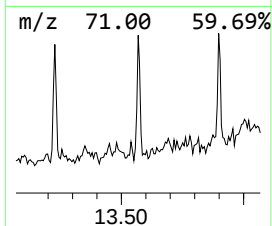
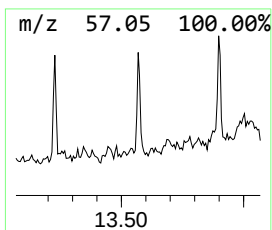
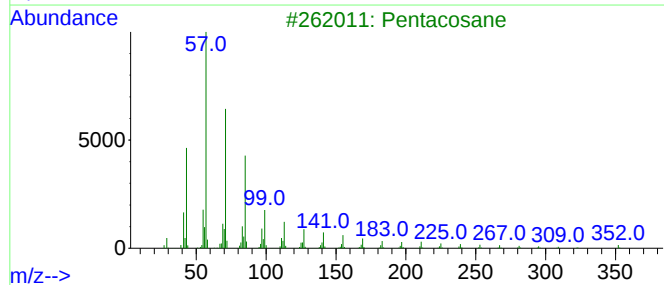
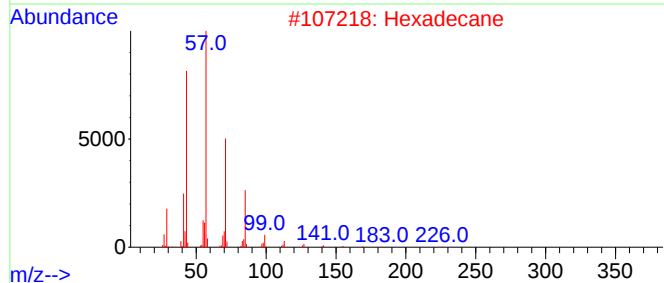
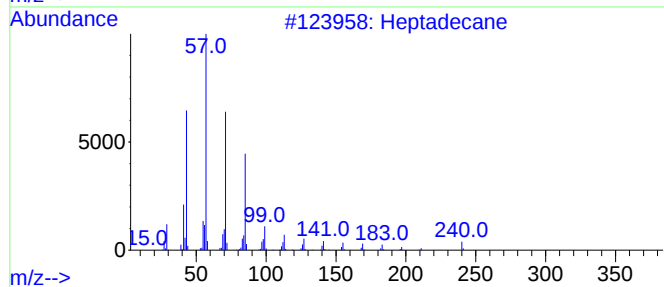
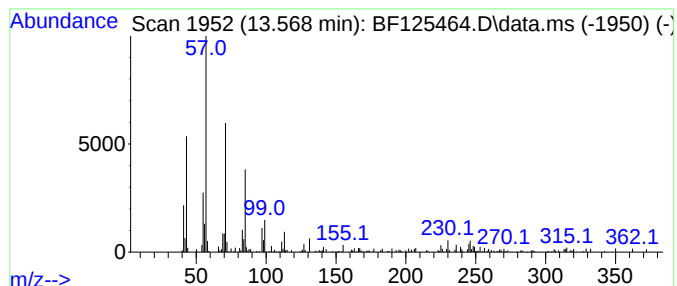
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Heptadecane Concentration Rank 15

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 13.568 | 2.24 ng | 97155 | Chrysene-d12     | 14.068 |

| Hit# | of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------|--------------|-----|---------|-------------|------|
| 1    |      | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |
| 2    |      | Hexadecane   | 226 | C16H34  | 000544-76-3 | 90   |
| 3    |      | Pentacosane  | 352 | C25H52  | 000629-99-2 | 83   |
| 4    |      | Heneicosane  | 296 | C21H44  | 000629-94-7 | 80   |
| 5    |      | Heptacosane  | 380 | C27H56  | 000593-49-7 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

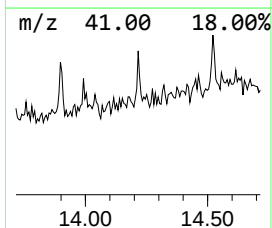
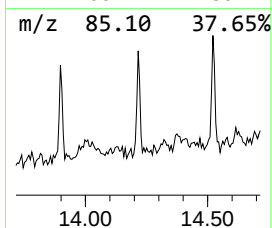
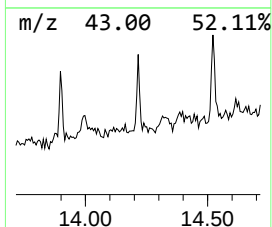
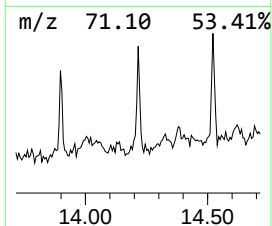
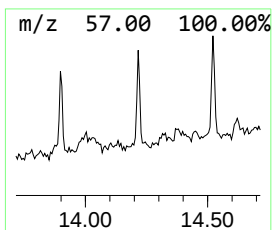
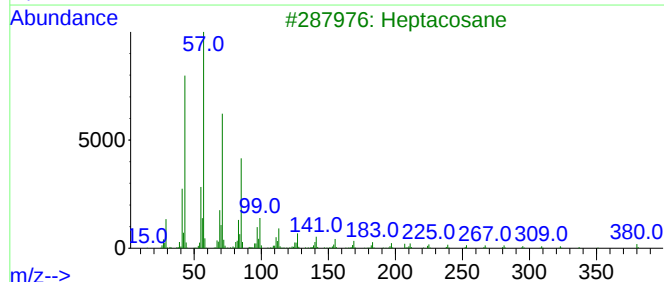
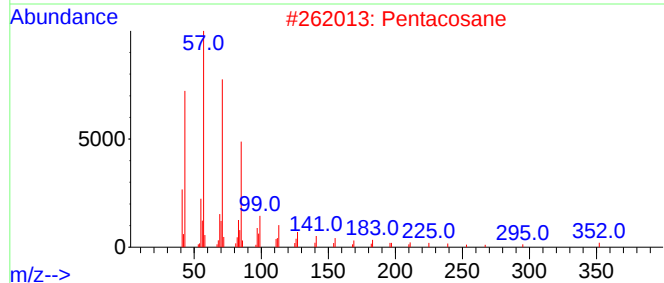
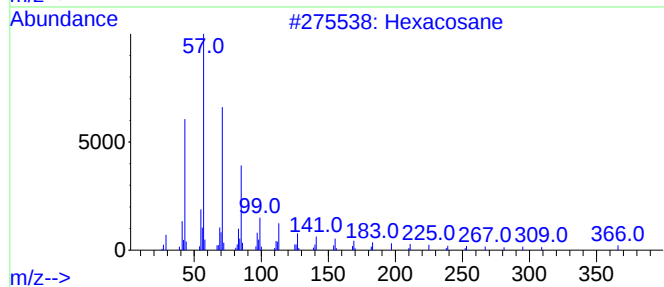
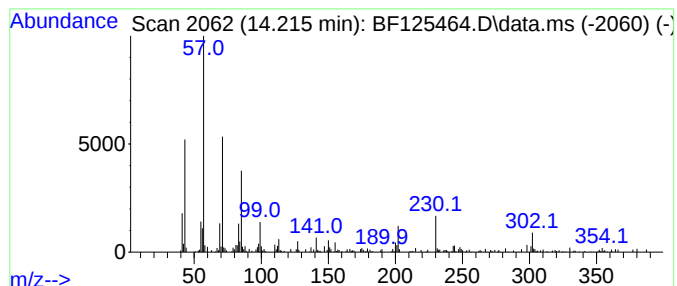
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Hexacosane Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.216 | 2.38 ng | 102998 | Chrysene-d12     | 14.068 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Hexacosane           | 366 | C26H54  | 000630-01-3 | 86   |
| 2    |    |   | Pentacosane          | 352 | C25H52  | 000629-99-2 | 83   |
| 3    |    |   | Heptacosane          | 380 | C27H56  | 000593-49-7 | 64   |
| 4    |    |   | Docosane             | 310 | C22H46  | 000629-97-0 | 62   |
| 5    |    |   | Tetradecane, 1-iodo- | 324 | C14H29I | 019218-94-1 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
Data File : BF125464.D  
Acq On : 14 Sep 2021 2:09  
Operator : JU/CG  
Sample : M3718-01 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

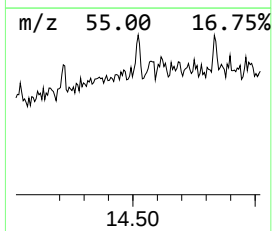
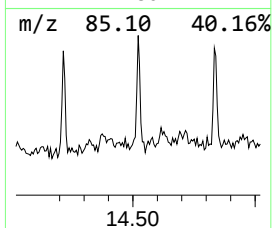
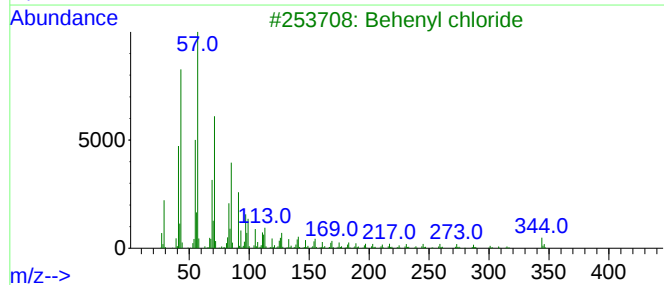
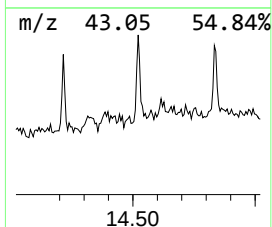
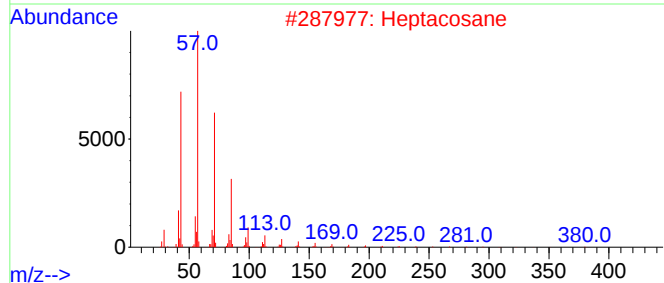
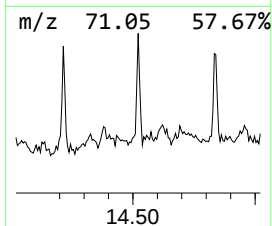
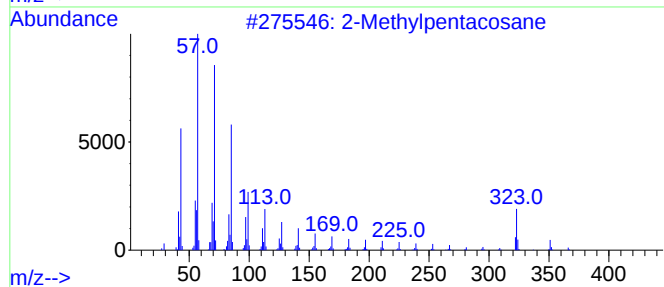
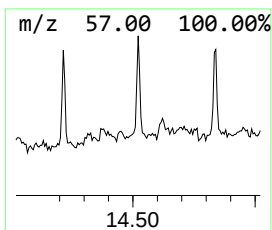
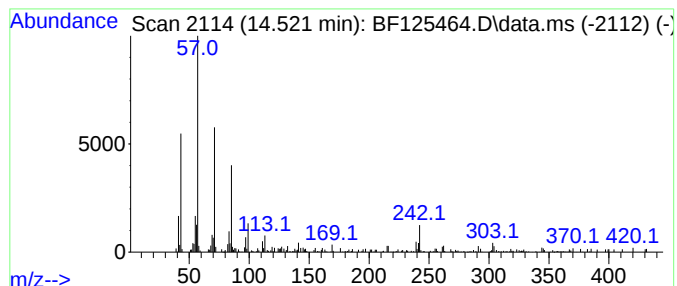
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 2-Methylpentacosane Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.521 | 2.69 ng | 116621 | Chrysene-d12     | 14.068 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|------|-----------------------|-----|----------|-------------|------|
| 1    |      | 2-Methylpentacosane   | 366 | C26H54   | 000629-87-8 | 70   |
| 2    |      | Heptacosane           | 380 | C27H56   | 000593-49-7 | 62   |
| 3    |      | Behenyl chloride      | 344 | C22H45Cl | 042217-03-8 | 58   |
| 4    |      | Hexadecane, 2-methyl- | 240 | C17H36   | 001560-92-5 | 58   |
| 5    |      | Tetracosane           | 338 | C24H50   | 000646-31-1 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091321\  
 Data File : BF125464.D  
 Acq On : 14 Sep 2021 2:09  
 Operator : JU/CG  
 Sample : M3718-01 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-091021

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Butane, 2-metho... | 2.134  | 7.2     | ng    | 299917   | 1                     | 6.887  | 838621 | 20.0 |
| 2-Pentanone, 4-... | 5.093  | 2.2     | ng    | 92469    | 1                     | 6.887  | 838621 | 20.0 |
| Hexadecane         | 10.351 | 2.2     | ng    | 104783   | 3                     | 9.927  | 934752 | 20.0 |
| Nonadecane         | 10.822 | 4.1     | ng    | 200825   | 4                     | 11.422 | 982150 | 20.0 |
| Pentadecane        | 11.275 | 2.3     | ng    | 111630   | 4                     | 11.422 | 982150 | 20.0 |
| Tridecane, 2-me... | 11.304 | 2.3     | ng    | 114927   | 4                     | 11.422 | 982150 | 20.0 |
| Heptacosane        | 11.698 | 2.3     | ng    | 112449   | 4                     | 11.422 | 982150 | 20.0 |
| Hexadecanoic ac... | 11.804 | 10.8    | ng    | 532140   | 4                     | 11.422 | 982150 | 20.0 |
| n-Hexadecanoic ... | 11.939 | 6.7     | ng    | 328396   | 4                     | 11.422 | 982150 | 20.0 |
| Undecane, 3-met... | 12.110 | 2.2     | ng    | 109853   | 4                     | 11.422 | 982150 | 20.0 |
| 9,12-Octadecadi... | 12.492 | 37.9    | ng    | 1863160  | 4                     | 11.422 | 982150 | 20.0 |
| 9-Octadecenoic ... | 12.510 | 34.5    | ng    | 1695950  | 4                     | 11.422 | 982150 | 20.0 |
| Pyrene, 1-methyl-  | 13.080 | 2.4     | ng    | 103437   | 5                     | 14.068 | 867339 | 20.0 |
| Docosane           | 13.227 | 2.3     | ng    | 101162   | 5                     | 14.068 | 867339 | 20.0 |
| Heptadecane        | 13.568 | 2.2     | ng    | 97155    | 5                     | 14.068 | 867339 | 20.0 |
| Hexacosane         | 14.216 | 2.4     | ng    | 102998   | 5                     | 14.068 | 867339 | 20.0 |
| 2-Methylpentaco... | 14.521 | 2.7     | ng    | 116621   | 5                     | 14.068 | 867339 | 20.0 |