

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
 Data File : BF118016.D  
 Acq On : 26 Nov 2019 19:23  
 Operator : JU  
 Sample : K5959-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-112019-0-2-COMP-B3

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\_F\METHODS\8270-BF111319.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         | 2.181       | 9             | 16          | 23           | rVB      | 552306         | 710919        | 25.95%          | 1.507%        |
| 2         | 5.104       | 508           | 513         | 524          | rVB      | 360007         | 458547        | 16.74%          | 0.972%        |
| 3         | 5.510       | 578           | 582         | 586          | rBV      | 2199827        | 2068402       | 75.51%          | 4.386%        |
| 4         | 6.522       | 749           | 754         | 772          | rBV      | 2490753        | 2572421       | 93.91%          | 5.455%        |
| 5         | 6.663       | 774           | 778         | 781          | rBV      | 2961955        | 2546468       | 92.96%          | 5.400%        |
| 6         | 6.892       | 814           | 817         | 821          | rBV      | 970532         | 798028        | 29.13%          | 1.692%        |
| 7         | 7.051       | 840           | 844         | 847          | rBV      | 2485406        | 2093194       | 76.41%          | 4.438%        |
| 8         | 7.457       | 908           | 913         | 916          | rBV      | 1703909        | 1502672       | 54.85%          | 3.186%        |
| 9         | 8.181       | 1032          | 1036        | 1039         | rBV      | 1188574        | 967475        | 35.32%          | 2.051%        |
| 10        | 9.263       | 1215          | 1220        | 1223         | rBV      | 3041317        | 2739361       | 100.00%         | 5.809%        |
| 11        | 9.598       | 1274          | 1277        | 1280         | rBV      | 96666          | 93572         | 3.42%           | 0.198%        |
| 12        | 9.651       | 1283          | 1286        | 1291         | rVB      | 461491         | 349271        | 12.75%          | 0.741%        |
| 13        | 9.804       | 1309          | 1312        | 1315         | rVB      | 90956          | 69072         | 2.52%           | 0.146%        |
| 14        | 9.945       | 1333          | 1336        | 1339         | rVB      | 1155929        | 907119        | 33.11%          | 1.923%        |
| 15        | 9.975       | 1339          | 1341        | 1344         | rVB      | 149538         | 114924        | 4.20%           | 0.244%        |
| 16        | 10.145      | 1365          | 1370        | 1374         | rBV2     | 89361          | 84927         | 3.10%           | 0.180%        |
| 17        | 10.186      | 1374          | 1377        | 1382         | rVB      | 70113          | 57252         | 2.09%           | 0.121%        |
| 18        | 10.263      | 1386          | 1390        | 1392         | rBV      | 70706          | 65643         | 2.40%           | 0.139%        |
| 19        | 10.351      | 1400          | 1405        | 1407         | rBV      | 53567          | 70931         | 2.59%           | 0.150%        |
| 20        | 10.492      | 1425          | 1429        | 1435         | rVV3     | 104382         | 111975        | 4.09%           | 0.237%        |
| 21        | 10.651      | 1451          | 1456        | 1461         | rVB3     | 60060          | 79774         | 2.91%           | 0.169%        |
| 22        | 10.733      | 1465          | 1470        | 1474         | rBV      | 1601662        | 1517210       | 55.39%          | 3.217%        |
| 23        | 10.863      | 1487          | 1492        | 1495         | rBV3     | 69399          | 84658         | 3.09%           | 0.180%        |
| 24        | 11.045      | 1517          | 1523        | 1525         | rBV3     | 76766          | 99479         | 3.63%           | 0.211%        |
| 25        | 11.075      | 1525          | 1528        | 1531         | rVV2     | 63523          | 75809         | 2.77%           | 0.161%        |
| 26        | 11.169      | 1540          | 1544        | 1546         | rBV2     | 68310          | 87971         | 3.21%           | 0.187%        |
| 27        | 11.192      | 1546          | 1548        | 1553         | rVV3     | 85806          | 104348        | 3.81%           | 0.221%        |
| 28        | 11.239      | 1553          | 1556        | 1560         | rVV      | 163544         | 162807        | 5.94%           | 0.345%        |
| 29        | 11.292      | 1560          | 1565        | 1569         | rVV2     | 77401          | 130764        | 4.77%           | 0.277%        |
| 30        | 11.333      | 1569          | 1572        | 1577         | rVB      | 114274         | 104926        | 3.83%           | 0.222%        |
| 31        | 11.439      | 1586          | 1590        | 1592         | rBV      | 806531         | 736212        | 26.88%          | 1.561%        |
| 32        | 11.463      | 1592          | 1594        | 1597         | rVV      | 1771392        | 1440120       | 52.57%          | 3.054%        |
| 33        | 11.516      | 1598          | 1603        | 1605         | rVV      | 370978         | 352950        | 12.88%          | 0.748%        |
| 34        | 11.669      | 1623          | 1629        | 1631         | rBV2     | 102602         | 123208        | 4.50%           | 0.261%        |

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 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-112019-0-2-COMP-B3

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\_F\METHODS\8270-BF111319.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.733 | 1637 | 1640 | 1642 | rVB2 | 84434   | 72219   | 2.64%  | 0.153% |
| 36 | 11.769 | 1642 | 1646 | 1651 | rVB  | 164322  | 158574  | 5.79%  | 0.336% |
| 37 | 11.851 | 1658 | 1660 | 1664 | rVB  | 60196   | 62595   | 2.29%  | 0.133% |
| 38 | 11.892 | 1664 | 1667 | 1670 | rBV  | 69318   | 64867   | 2.37%  | 0.138% |
| 39 | 11.945 | 1672 | 1676 | 1677 | rVV  | 449306  | 431856  | 15.76% | 0.916% |
| 40 | 11.969 | 1677 | 1680 | 1684 | rVB  | 623858  | 632681  | 23.10% | 1.342% |
| 41 | 12.016 | 1685 | 1688 | 1691 | rBV  | 202077  | 169997  | 6.21%  | 0.360% |
| 42 | 12.051 | 1691 | 1694 | 1697 | rBV2 | 548607  | 657030  | 23.98% | 1.393% |
| 43 | 12.075 | 1697 | 1698 | 1702 | rVB  | 392152  | 276278  | 10.09% | 0.586% |
| 44 | 12.239 | 1722 | 1726 | 1728 | rVV  | 268749  | 248445  | 9.07%  | 0.527% |
| 45 | 12.263 | 1728 | 1730 | 1736 | rVB2 | 252141  | 224725  | 8.20%  | 0.477% |
| 46 | 12.316 | 1736 | 1739 | 1743 | rBV2 | 55132   | 66526   | 2.43%  | 0.141% |
| 47 | 12.386 | 1749 | 1751 | 1754 | rVV2 | 150788  | 124963  | 4.56%  | 0.265% |
| 48 | 12.422 | 1754 | 1757 | 1759 | rVV  | 109417  | 98183   | 3.58%  | 0.208% |
| 49 | 12.445 | 1759 | 1761 | 1763 | rVB  | 97804   | 78825   | 2.88%  | 0.167% |
| 50 | 12.492 | 1763 | 1769 | 1772 | rBV  | 380571  | 452058  | 16.50% | 0.959% |
| 51 | 12.527 | 1772 | 1775 | 1778 | rVV2 | 166230  | 238894  | 8.72%  | 0.507% |
| 52 | 12.551 | 1778 | 1779 | 1781 | rVB  | 107198  | 58349   | 2.13%  | 0.124% |
| 53 | 12.580 | 1781 | 1784 | 1789 | rBV  | 309543  | 323610  | 11.81% | 0.686% |
| 54 | 12.663 | 1794 | 1798 | 1801 | rVB  | 2292924 | 2008584 | 73.32% | 4.259% |
| 55 | 12.698 | 1801 | 1804 | 1806 | rBV  | 64150   | 58220   | 2.13%  | 0.123% |
| 56 | 12.722 | 1806 | 1808 | 1810 | rVB3 | 75279   | 55494   | 2.03%  | 0.118% |
| 57 | 12.745 | 1810 | 1812 | 1815 | rVB4 | 53447   | 54371   | 1.98%  | 0.115% |
| 58 | 12.786 | 1815 | 1819 | 1821 | rBV3 | 104574  | 108808  | 3.97%  | 0.231% |
| 59 | 12.810 | 1821 | 1823 | 1826 | rVB3 | 76764   | 66561   | 2.43%  | 0.141% |
| 60 | 12.892 | 1831 | 1837 | 1842 | rBV  | 2217654 | 2471479 | 90.22% | 5.241% |
| 61 | 12.939 | 1842 | 1845 | 1849 | rVB2 | 135843  | 189245  | 6.91%  | 0.401% |
| 62 | 13.004 | 1853 | 1856 | 1857 | rBV2 | 120451  | 106055  | 3.87%  | 0.225% |
| 63 | 13.027 | 1857 | 1860 | 1863 | rBV  | 2044919 | 1745704 | 63.73% | 3.702% |
| 64 | 13.110 | 1869 | 1874 | 1877 | rBV3 | 260850  | 403540  | 14.73% | 0.856% |
| 65 | 13.163 | 1881 | 1883 | 1885 | rVV2 | 76218   | 70882   | 2.59%  | 0.150% |
| 66 | 13.192 | 1885 | 1888 | 1890 | rVV4 | 223450  | 288618  | 10.54% | 0.612% |
| 67 | 13.216 | 1890 | 1892 | 1895 | rVB2 | 271723  | 240298  | 8.77%  | 0.510% |
| 68 | 13.251 | 1895 | 1898 | 1901 | rBV3 | 48305   | 84437   | 3.08%  | 0.179% |
| 69 | 13.280 | 1901 | 1903 | 1906 | rVV  | 96830   | 107671  | 3.93%  | 0.228% |
| 70 | 13.321 | 1906 | 1910 | 1913 | rVV2 | 385613  | 414666  | 15.14% | 0.879% |
| 71 | 13.374 | 1917 | 1919 | 1923 | rVV2 | 74243   | 98930   | 3.61%  | 0.210% |

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 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-112019-0-2-COMP-B3

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-BF111319.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.416 | 1923 | 1926 | 1928 | rVV  | 283941  | 245712  | 8.97%  | 0.521% |
| 73  | 13.445 | 1928 | 1931 | 1934 | rVV  | 285447  | 283398  | 10.35% | 0.601% |
| 74  | 13.474 | 1934 | 1936 | 1940 | rVV5 | 52851   | 77350   | 2.82%  | 0.164% |
| 75  | 13.527 | 1943 | 1945 | 1948 | rVB3 | 65673   | 74462   | 2.72%  | 0.158% |
| 76  | 13.592 | 1954 | 1956 | 1959 | rBV4 | 66154   | 88849   | 3.24%  | 0.188% |
| 77  | 13.727 | 1975 | 1979 | 1983 | rVB  | 431375  | 395305  | 14.43% | 0.838% |
| 78  | 13.839 | 1993 | 1998 | 2001 | rBV2 | 309805  | 439193  | 16.03% | 0.931% |
| 79  | 13.868 | 2001 | 2003 | 2005 | rVV  | 236897  | 178343  | 6.51%  | 0.378% |
| 80  | 13.892 | 2005 | 2007 | 2011 | rVV2 | 143826  | 178379  | 6.51%  | 0.378% |
| 81  | 13.933 | 2011 | 2014 | 2022 | rVB  | 445902  | 467082  | 17.05% | 0.990% |
| 82  | 14.010 | 2024 | 2027 | 2029 | rBV  | 60643   | 59177   | 2.16%  | 0.125% |
| 83  | 14.086 | 2033 | 2040 | 2044 | rBV3 | 1429815 | 2259977 | 82.50% | 4.792% |
| 84  | 14.121 | 2044 | 2046 | 2051 | rVB  | 1196382 | 969917  | 35.41% | 2.057% |
| 85  | 14.180 | 2053 | 2056 | 2057 | rBV  | 68581   | 68996   | 2.52%  | 0.146% |
| 86  | 14.316 | 2075 | 2079 | 2082 | rBV2 | 105466  | 137071  | 5.00%  | 0.291% |
| 87  | 14.351 | 2082 | 2085 | 2087 | rVV  | 92595   | 84926   | 3.10%  | 0.180% |
| 88  | 14.445 | 2098 | 2101 | 2102 | rBV  | 84047   | 70078   | 2.56%  | 0.149% |
| 89  | 14.480 | 2102 | 2107 | 2110 | rVV  | 338309  | 340458  | 12.43% | 0.722% |
| 90  | 14.516 | 2110 | 2113 | 2116 | rVB  | 166635  | 155201  | 5.67%  | 0.329% |
| 91  | 14.551 | 2116 | 2119 | 2125 | rVB4 | 107939  | 201683  | 7.36%  | 0.428% |
| 92  | 14.604 | 2125 | 2128 | 2130 | rBV  | 140409  | 135464  | 4.95%  | 0.287% |
| 93  | 14.951 | 2184 | 2187 | 2189 | rBV2 | 75924   | 94571   | 3.45%  | 0.201% |
| 94  | 15.157 | 2217 | 2222 | 2225 | rBV2 | 690310  | 1096903 | 40.04% | 2.326% |
| 95  | 15.263 | 2237 | 2240 | 2244 | rBV  | 113199  | 119391  | 4.36%  | 0.253% |
| 96  | 15.468 | 2271 | 2275 | 2281 | rVB  | 396269  | 531979  | 19.42% | 1.128% |
| 97  | 15.533 | 2282 | 2286 | 2292 | rVB  | 551335  | 689672  | 25.18% | 1.462% |
| 98  | 15.598 | 2293 | 2297 | 2300 | rBV  | 376885  | 487651  | 17.80% | 1.034% |
| 99  | 17.127 | 2552 | 2557 | 2564 | rVB2 | 218467  | 410007  | 14.97% | 0.869% |
| 100 | 17.592 | 2631 | 2636 | 2645 | rVB  | 150615  | 323190  | 11.80% | 0.685% |

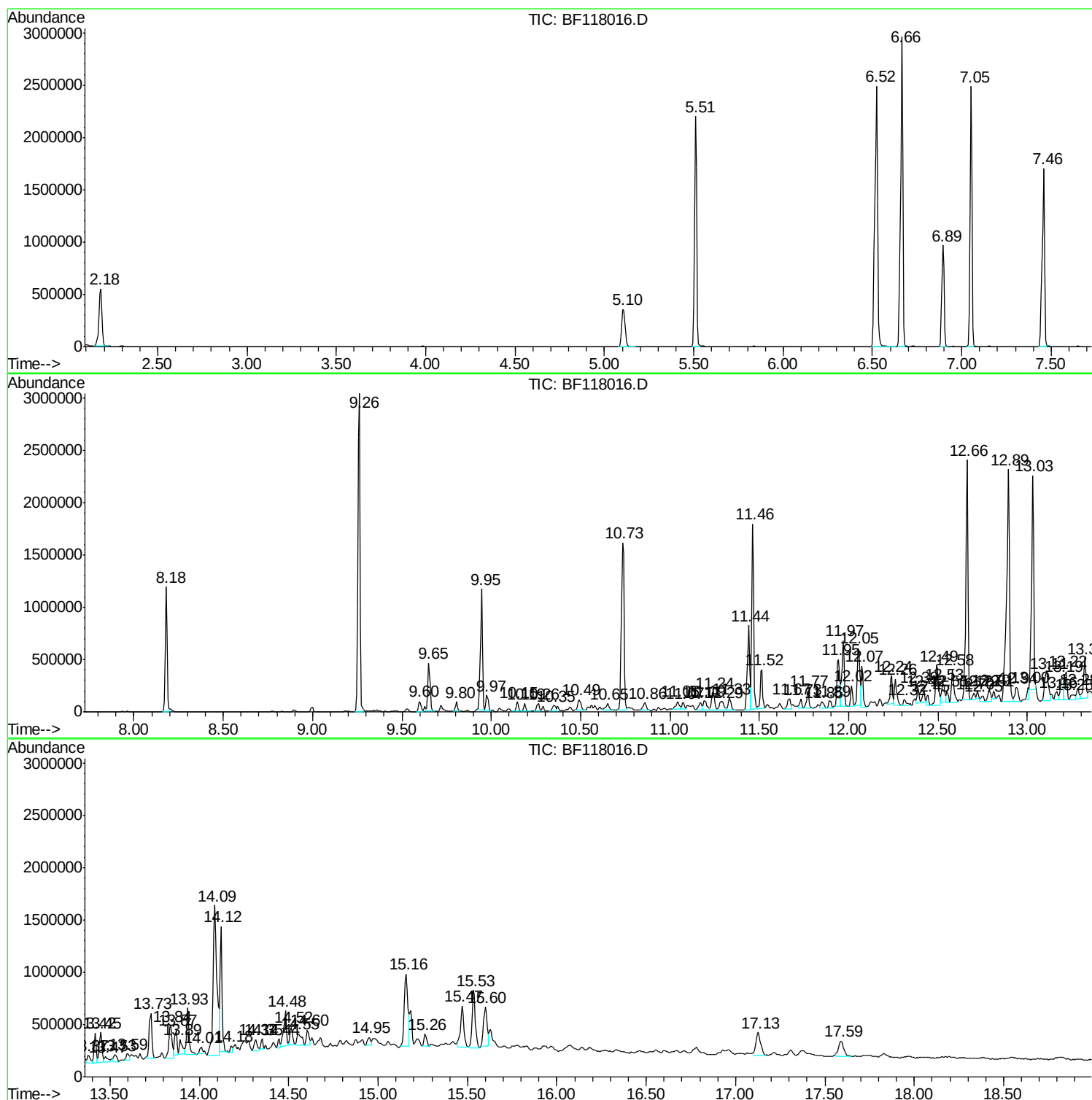
Sum of corrected areas: 47161032

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Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
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ALS Vial : 19 Sample Multiplier: 1

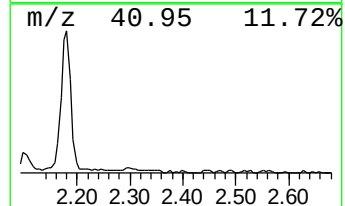
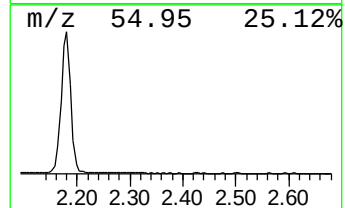
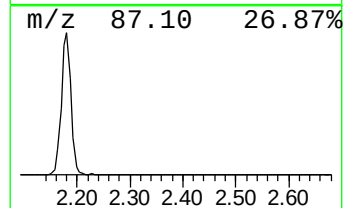
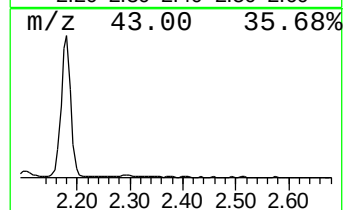
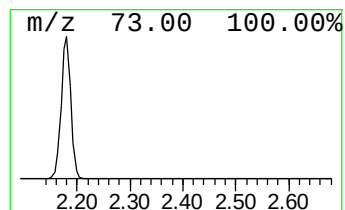
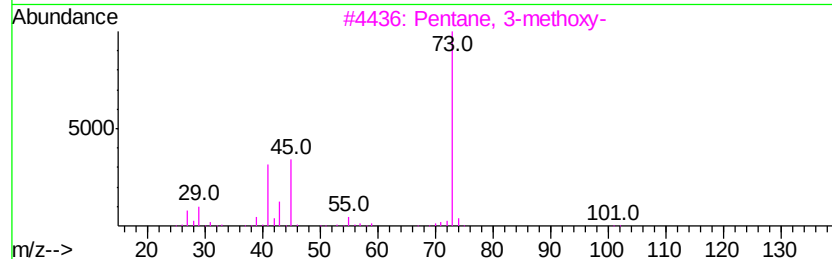
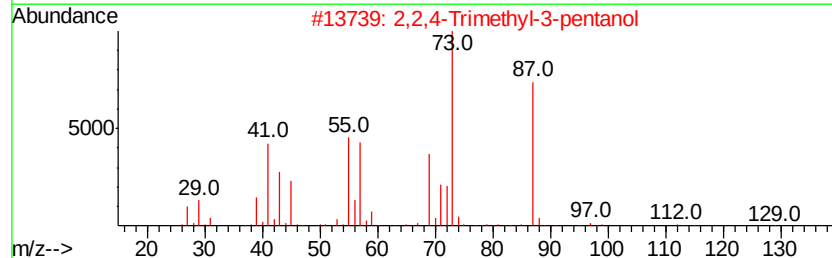
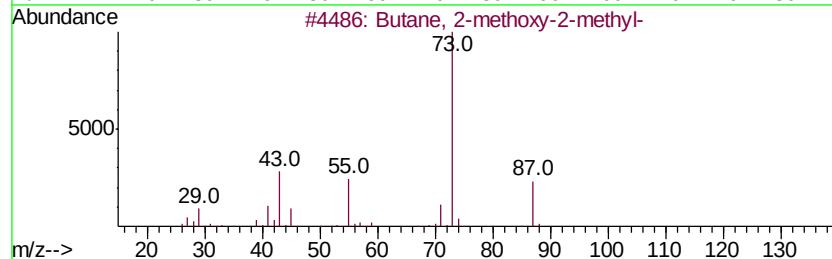
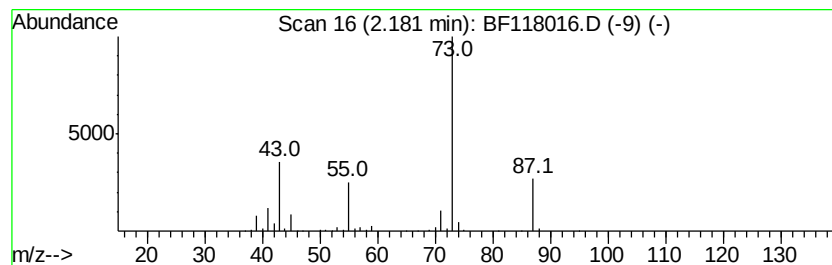
Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.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 1 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T.    | EstConc  | Area                        | Relative to ISTD       | R.T.           |
|---------|----------|-----------------------------|------------------------|----------------|
| 2.18    | 17.82 ng | 710919                      | 1,4-Dichlorobenzene-d4 | 6.89           |
| Hit# of | 5        | Tentative ID                | MW MolForm             | CAS# Qual      |
| 1       |          | Butane, 2-methoxy-2-methyl- | 102 C6H14O             | 000994-05-8 78 |
| 2       |          | 2,2,4-Trimethyl-3-pentanol  | 130 C8H18O             | 005162-48-1 39 |
| 3       |          | Pentane, 3-methoxy-         | 102 C6H14O             | 036839-67-5 23 |
| 4       |          | Acetamide, N-ethyl-         | 87 C4H9NO              | 000625-50-3 9  |
| 5       |          | N-Ethylformamide            | 73 C3H7NO              | 000627-45-2 9  |



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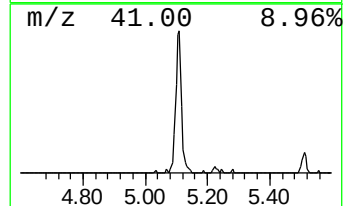
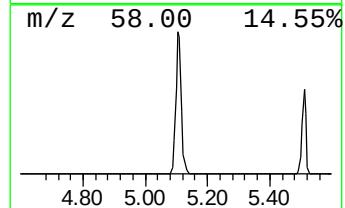
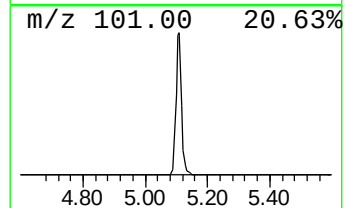
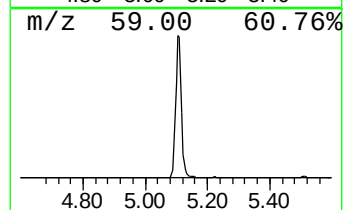
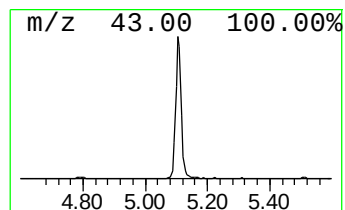
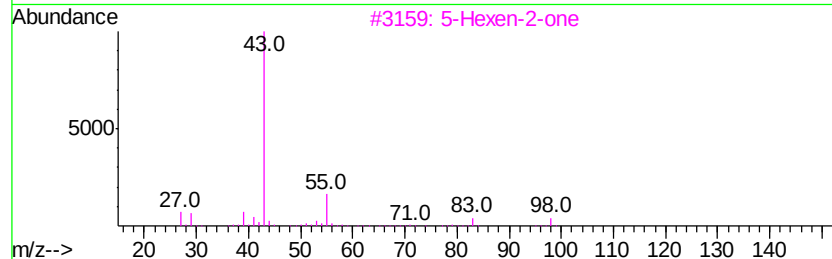
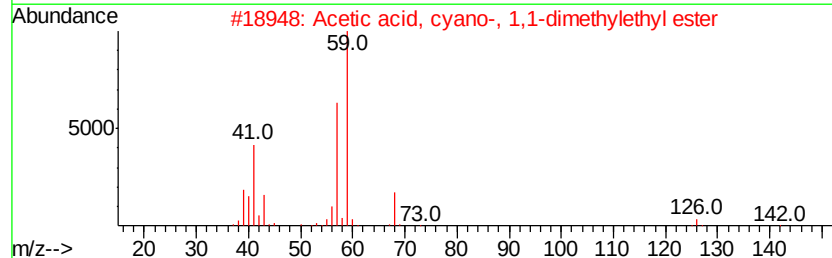
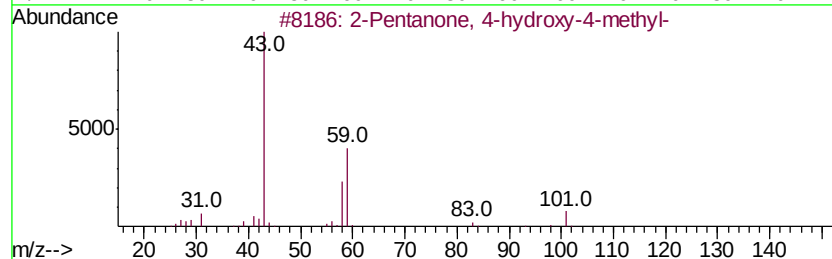
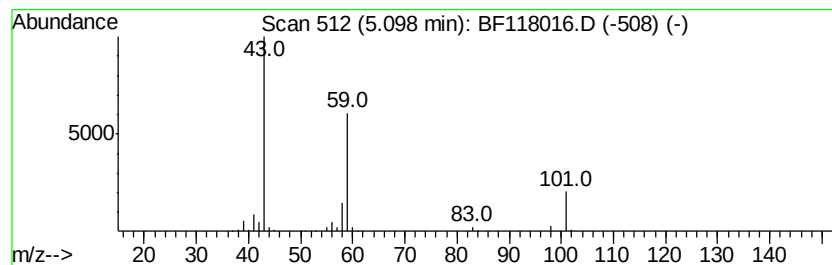
Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.        |      |      |
|---------|--------------------------------------|--------------|------------------------|-------------|------|------|
| 5.10    | 11.49 ng                             | 458547       | 1,4-Dichlorobenzene-d4 | 6.89        |      |      |
| Hit# of | 5                                    | Tentative ID | MW                     | MolForm     | CAS# | Qual |
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-     | 116          | C6H12O2                | 000123-42-2 | 56   |      |
| 2       | Acetic acid, cyano-, 1,1-dimethyl... | 141          | C7H11NO2               | 001116-98-9 | 17   |      |
| 3       | 5-Hexen-2-one                        | 98           | C6H10O                 | 000109-49-9 | 9    |      |
| 4       | 2,3-Butanedione, monooxime           | 101          | C4H7NO2                | 000057-71-6 | 9    |      |
| 5       | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101          | C4H7NO2                | 016504-58-8 | 9    |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

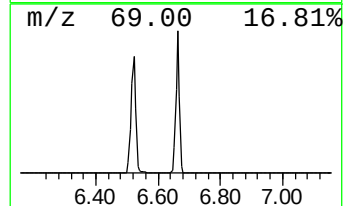
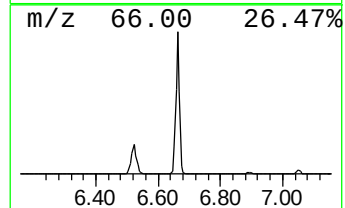
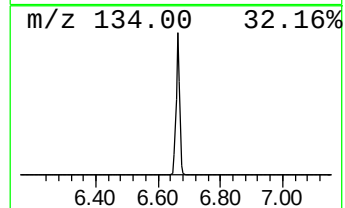
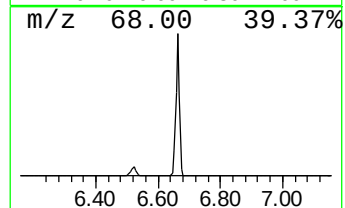
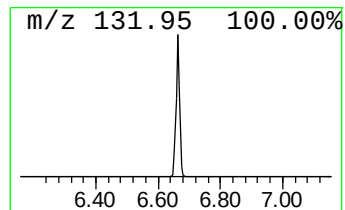
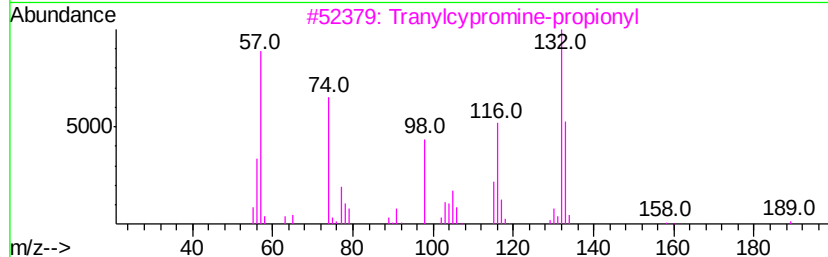
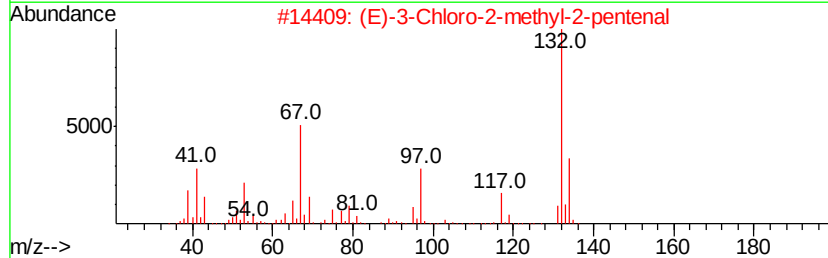
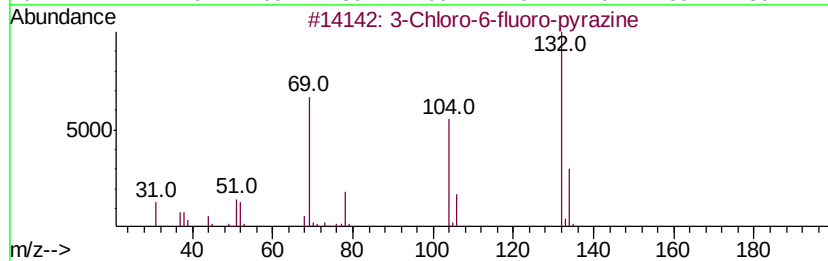
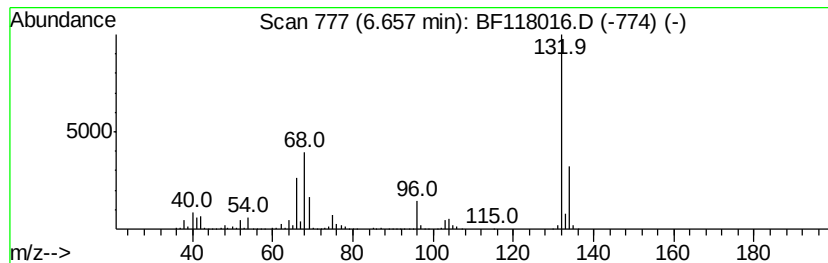
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 63.82 ng | 2546470 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 16   |
| 4    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 16   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

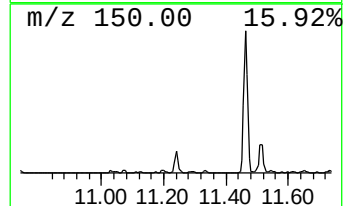
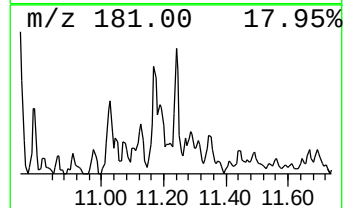
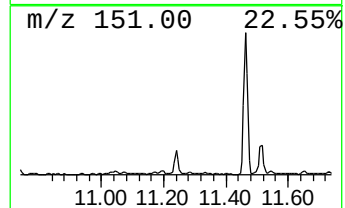
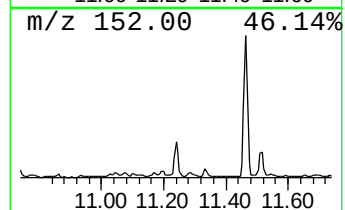
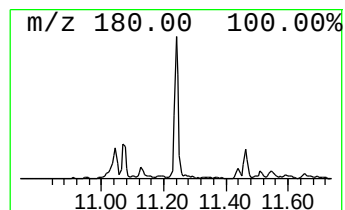
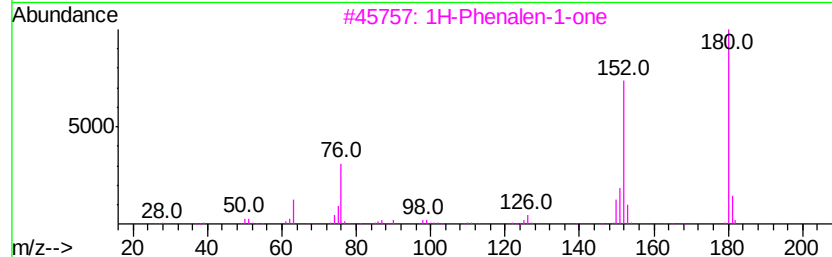
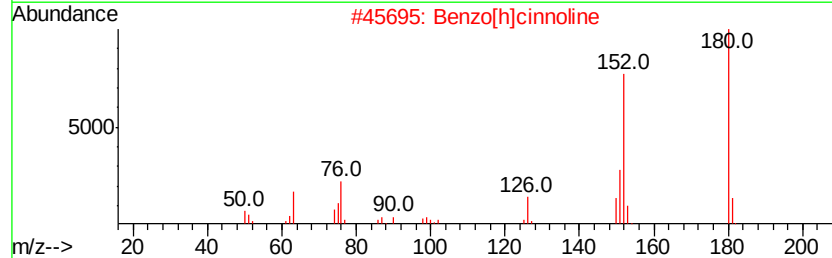
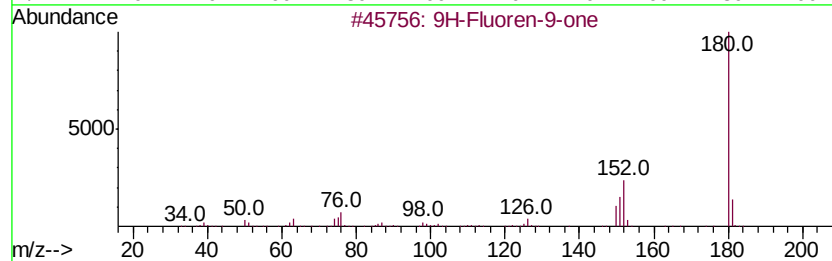
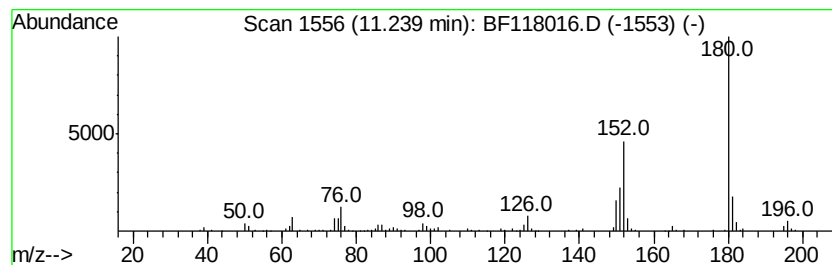
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ClientSampleId :  
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 9H-Fluoren-9-one Concentration Rank 17

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 11.24   | 4.42 ng               | 162807       | Phenanthrene-d10 | 11.44     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 9H-Fluoren-9-one      | 180 C13H8O   | 000486-25-9      | 95        |
| 2       | Benzo[h]cinnoline     | 180 C12H8N2  | 000230-31-9      | 90        |
| 3       | 1H-Phenalen-1-one     | 180 C13H8O   | 000548-39-0      | 50        |
| 4       | Benzo(f)quinoxaline   | 180 C12H8N2  | 000230-33-1      | 49        |
| 5       | 2,3-Diazaphenanthrene | 180 C12H8N2  | 000229-72-1      | 45        |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

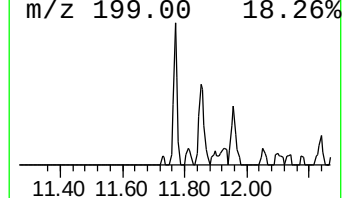
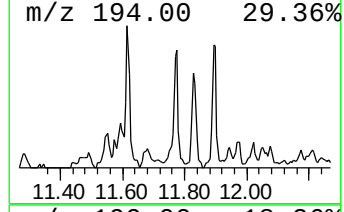
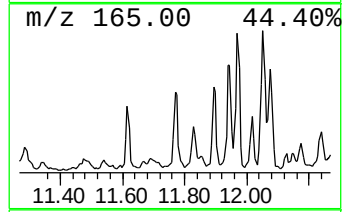
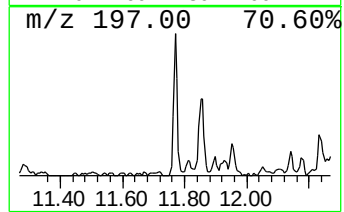
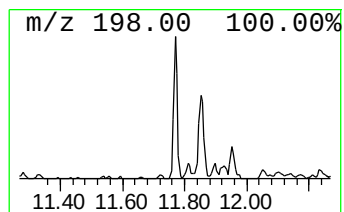
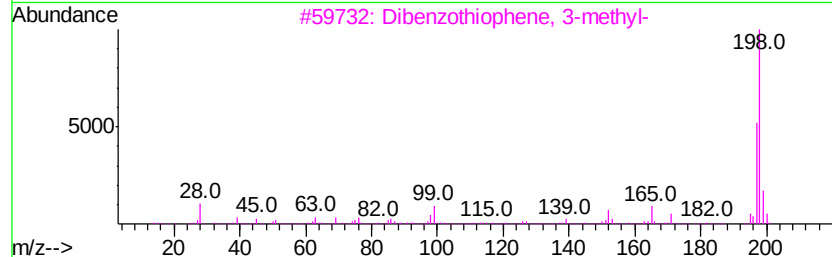
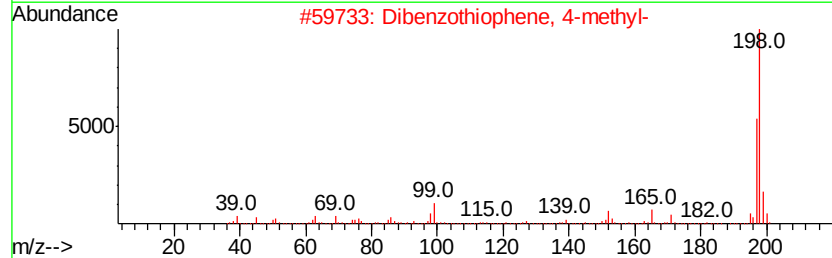
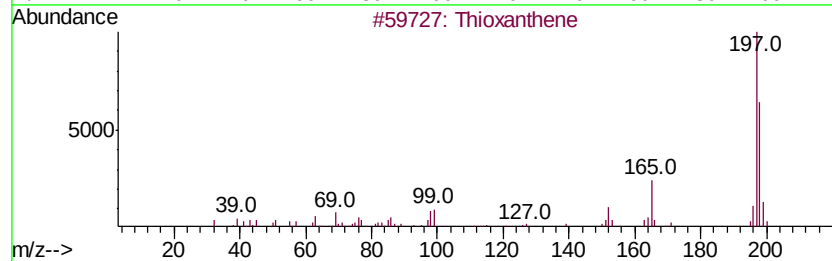
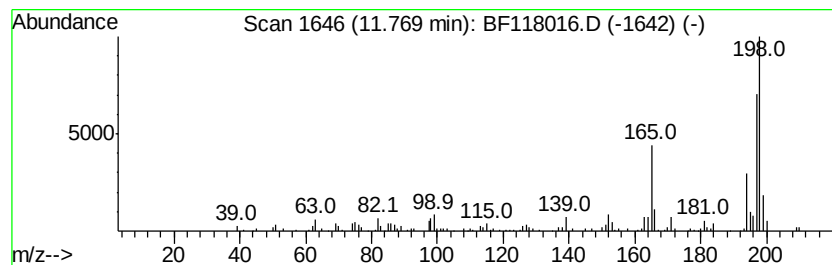
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Thioxanthene Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.77 | 4.31 ng | 158574 | Phenanthrene-d10 | 11.44 |

| Hit# | of | Tentative ID                    | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------|-----|----------|-------------|------|
| 1    | 5  | Thioxanthene                    | 198 | C13H10S  | 000261-31-4 | 64   |
| 2    |    | Dibenzothiophene, 4-methyl-     | 198 | C13H10S  | 007372-88-5 | 64   |
| 3    |    | Dibenzothiophene, 3-methyl-     | 198 | C13H10S  | 016587-52-3 | 64   |
| 4    |    | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9 | 58   |
| 5    |    | 1-Methyldibenzothiophene        | 198 | C13H10S  | 031317-07-4 | 52   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

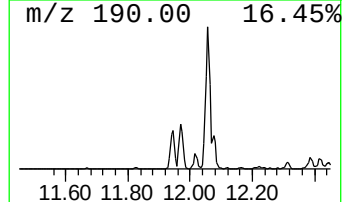
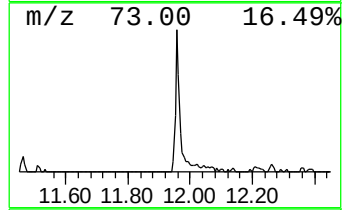
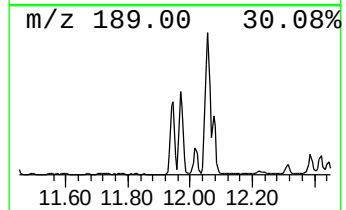
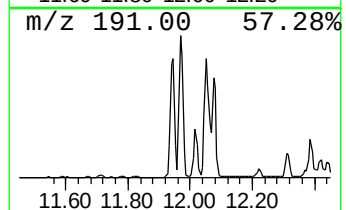
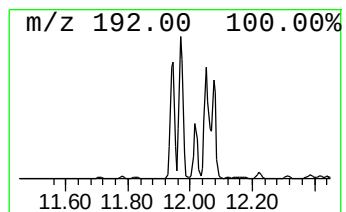
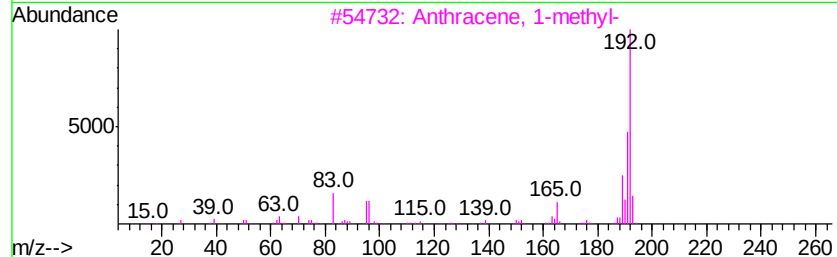
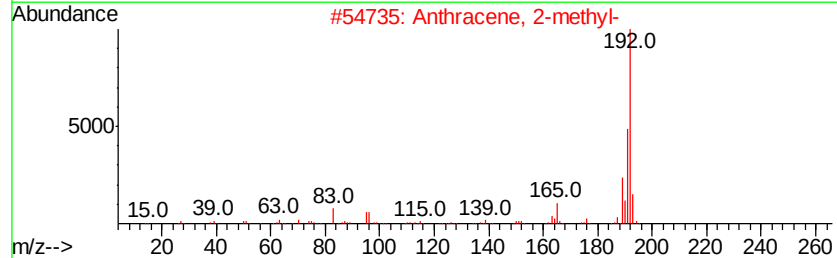
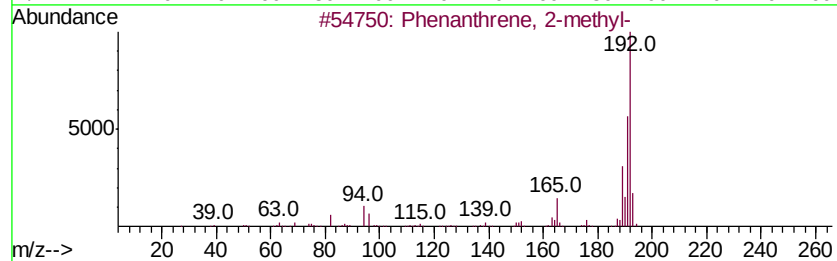
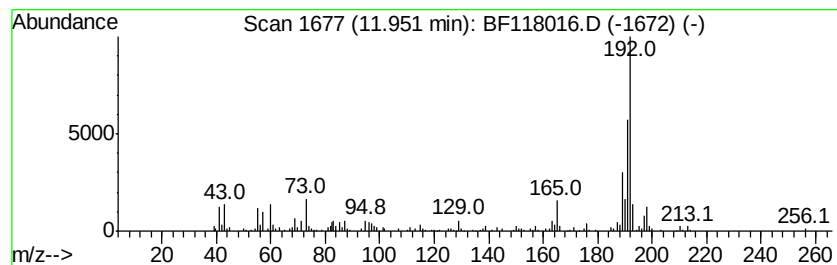
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ClientSampleId :  
WS-112019-0-2-COMP-B3

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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 7 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.95     | 11.73 ng                | 431856 | Phenanthrene-d10 | 11.44       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 96   |
| 2         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 95   |
| 3         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 94   |
| 4         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 93   |
| 5         | 1H-Indene, 2-phenyl-    | 192    | C15H12           | 004505-48-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

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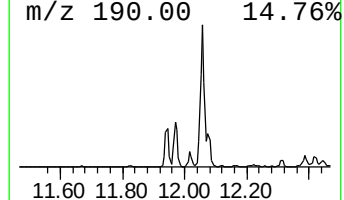
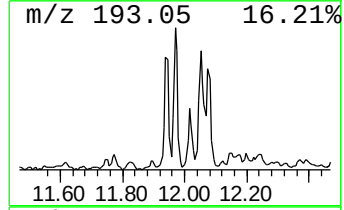
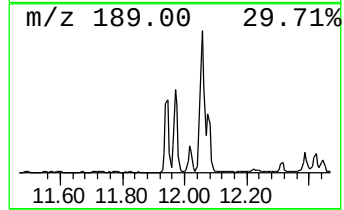
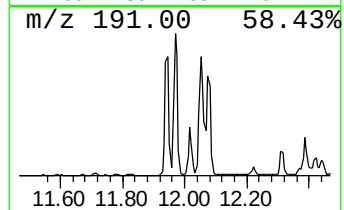
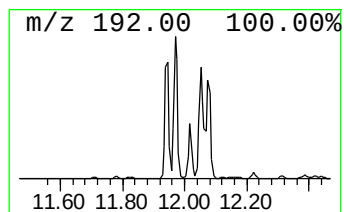
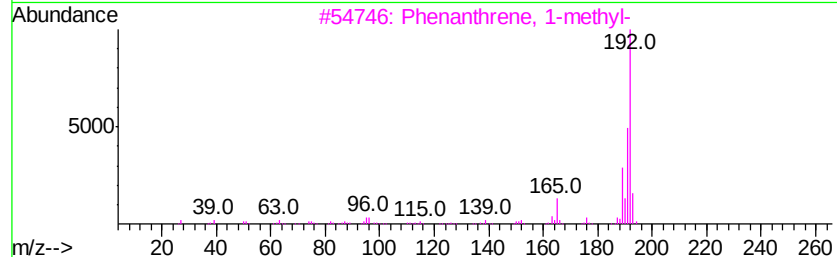
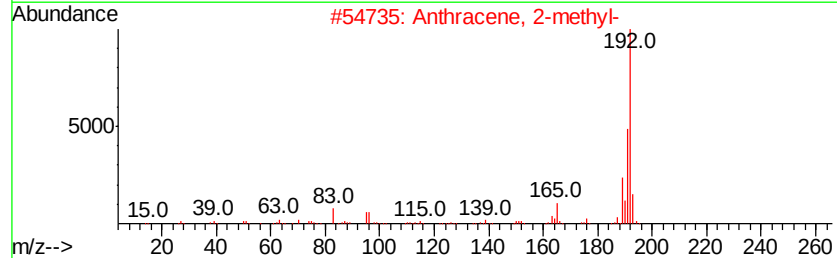
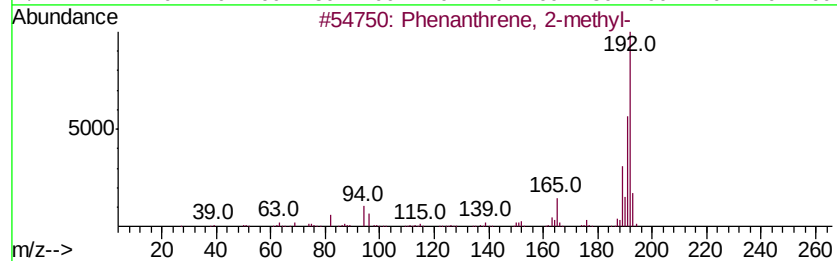
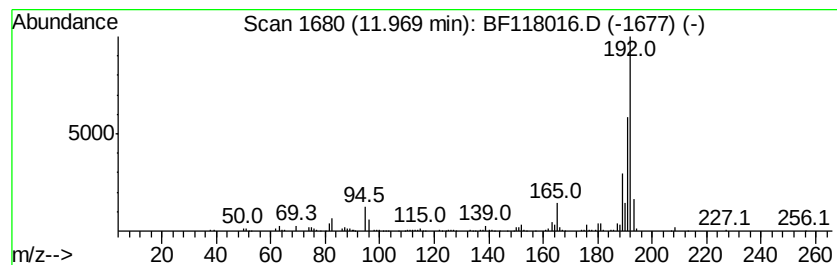
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Anthracene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.97 | 17.19 ng | 632681 | Phenanthrene-d10 | 11.44 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 98   |
| 2       |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 3       |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 4       |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 94   |
| 5       |   | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

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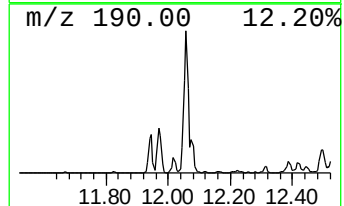
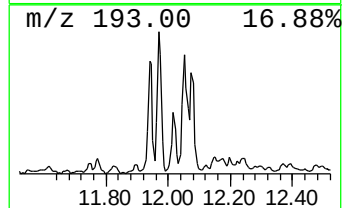
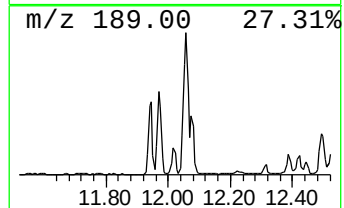
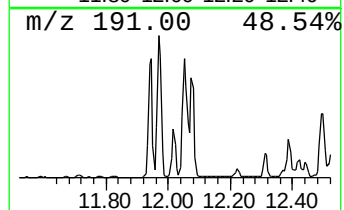
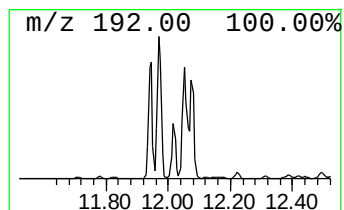
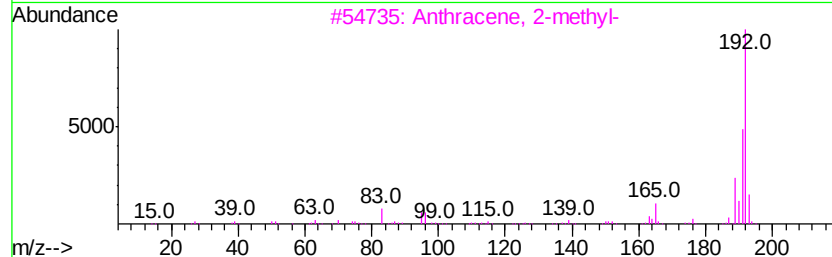
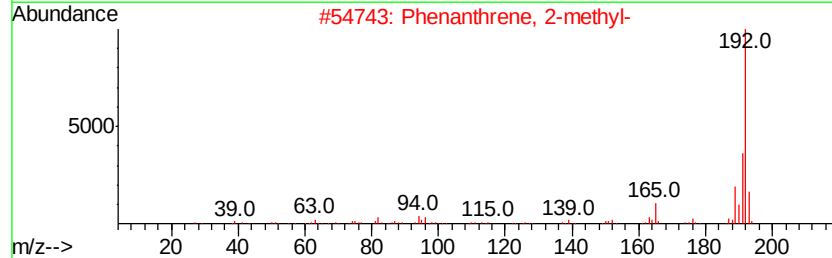
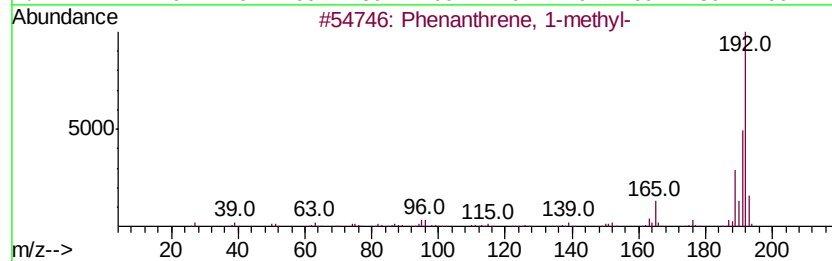
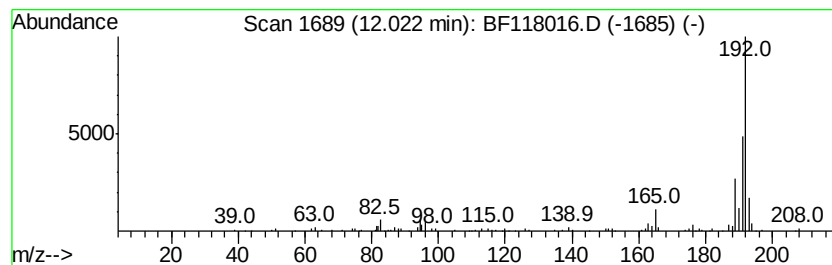
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.02 | 4.62 ng | 169997 | Phenanthrene-d10 | 11.44 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 1-methyl-              | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    | Phenanthrene, 2-methyl-              | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    | Anthracene, 2-methyl-                | 192 | C15H12  | 000613-12-7 | 96   |
| 4    |    | 1H-Indene, 2-phenyl-                 | 192 | C15H12  | 004505-48-0 | 95   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

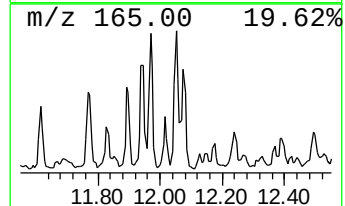
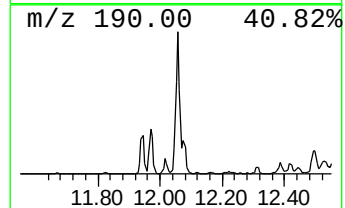
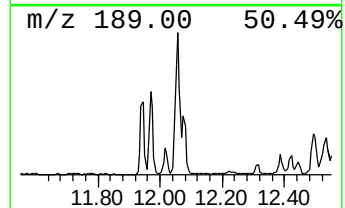
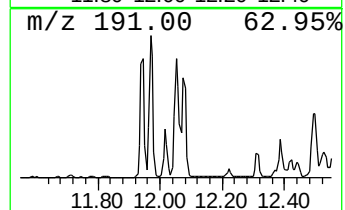
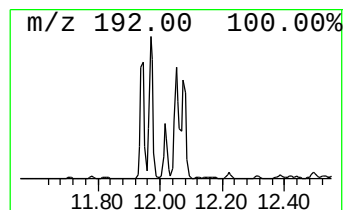
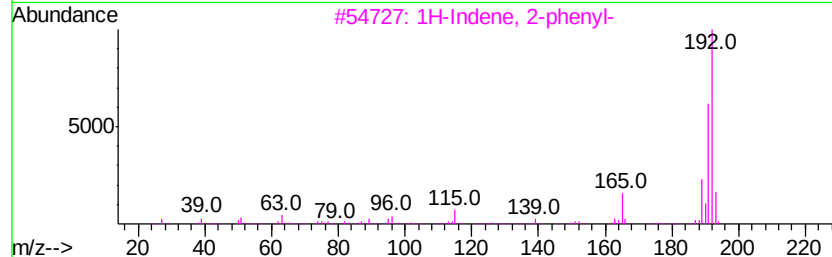
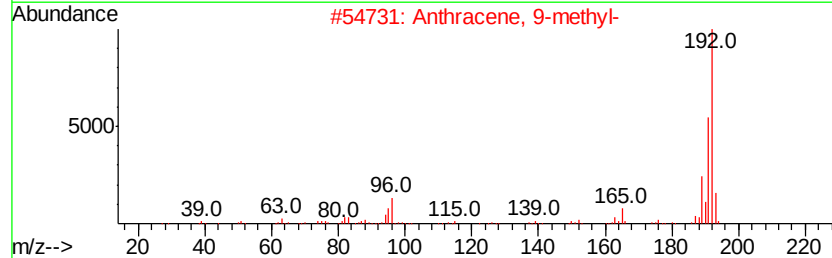
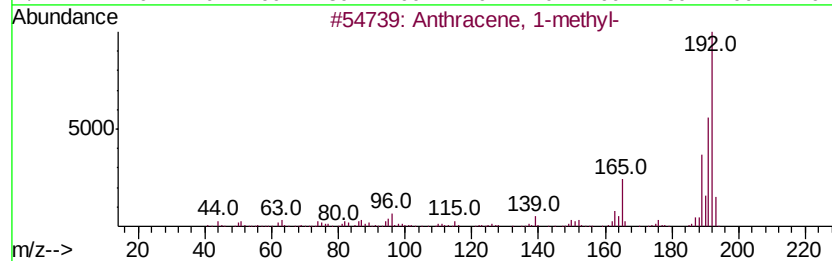
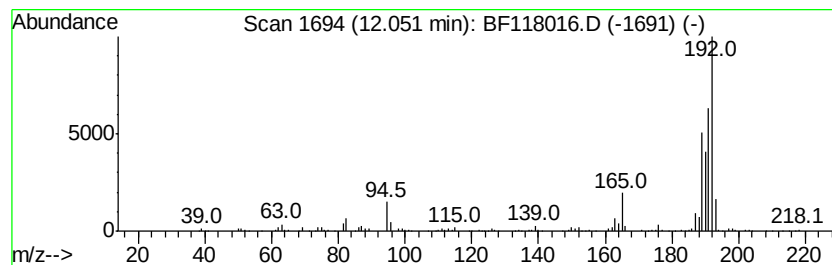
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Anthracene, 1-methyl- Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.05 | 17.85 ng | 657030 | Phenanthrene-d10 | 11.44 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |
| 2    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 64   |
| 3    |    |   | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 64   |
| 4    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 60   |
| 5    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 60   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\  
Data File : BF118016.D  
Acq On : 26 Nov 2019 19:23  
Operator : JU  
Sample : K5959-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-0-2-COMP-B3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.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 11 Anthracene, 9-methyl- Concentration Rank 11

| R.T.      | EstConc                                | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------------|--------|------------------|-------------|------|
| 12.07     | 7.51 ng                                | 276278 | Phenanthrene-d10 | 11.44       |      |
| Hit# of 5 | Tentative ID                           | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-                | 192    | C15H12           | 000832-69-9 | 94   |
| 2         | Phenanthrene, 2-methyl-                | 192    | C15H12           | 002531-84-2 | 93   |
| 3         | Anthracene, 9-methyl-                  | 192    | C15H12           | 000779-02-2 | 91   |
| 4         | 1H-Cyclopropa[1,1]phenanthrene, 1a,... | 192    | C15H12           | 000949-41-7 | 91   |
| 5         | 1a,9b-Dihydro-1H-cyclopropa[a]an...    | 192    | C15H12           | 006109-24-6 | 87   |

