# LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

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-BF012020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.140 | 3 | 9 | 15 | rVB | 1195499 | 1601861 | 19.72% | 1.055% |
| 2 | 5.081 | 495 | 509 | 514 | rBV2 | 79781 | 124152 | 1.53% | 0.082% |
| 3 | 5.481 | 572 | 577 | 581 | rBV | 4842330 | 4899659 | 60.33% | 3.226% |
| 4 | 6.487 | 742 | 748 | 753 | rBV | 4707611 | 5095338 | 62.74% | 3.355% |
| 5 | 6.863 | 808 | 812 | 815 | rBV | 1920800 | 1549436 | 19.08% | 1.020% |
| 6 | 7.022 | 835 | 839 | 842 | rVB | 5196040 | 4346921 | 53.52% | 2.863% |
| 7 | 7.145 | 857 | 860 | 863 | rVB | 130379 | 119673 | 1.47% | 0.079% |
| 8 | 7.263 | 875 | 880 | 883 | rBV2 | 146871 | 162809 | 2.00% | 0.107% |
| 9 | 7.422 | 898 | 907 | 910 | rBV | 3517036 | 3541944 | 43.61% | 2.332% |
| 10 | 7.469 | 912 | 915 | 918 | rVB | 162744 | 177520 | 2.19% | 0.117% |
| 11 | 7.516 | 918 | 923 | 926 | rBV4 | 172909 | 227738 | 2.80% | 0.150% |
| 12 | 7.569 | 926 | 932 | 936 | rBV5 | 102499 | 242542 | 2.99% | 0.160% |
| 13 | 7.651 | 939 | 946 | 947 | rVV3 | 146466 | 275469 | 3.39% | 0.181% |
| 14 | 7.675 | 948 | 950 | 953 | rVB2 | 280311 | 227228 | 2.80% | 0.150% |
| 15 | 7.745 | 958 | 962 | 965 | rBV3 | 160464 | 273364 | 3.37% | 0.180% |
| 16 | 7.792 | 968 | 970 | 974 | rVB3 | 476864 | 480490 | 5.92% | 0.316% |
| 17 | 7.869 | 980 | 983 | 984 | rBV2 | 150842 | 127943 | 1.58% | 0.084% |
| 18 | 8.022 | 1006 | 1009 | 1010 | rBV | 257181 | 233138 | 2.87% | 0.154% |
| 19 | 8.098 | 1019 | 1022 | 1025 | rBV3 | 275048 | 347462 | 4.28% | 0.229% |
| 20 | 8.145 | 1025 | 1030 | 1037 | rVV | 2522934 | 3587031 | 44.17% | 2.362% |
| 21 | 8.239 | 1044 | 1046 | 1048 | rBV2 | 353249 | 278513 | 3.43% | 0.183% |
| 22 | 8.304 | 1054 | 1057 | 1058 | rBV3 | 345958 | 341324 | 4.20% | 0.225% |
| 23 | 8.328 | 1058 | 1061 | 1064 | rVV3 | 556418 | 632315 | 7.79% | 0.416% |
| 24 | 8.363 | 1064 | 1067 | 1069 | rVV | 759222 | 635449 | 7.82% | 0.418% |
| 25 | 8.386 | 1069 | 1071 | 1073 | rBV3 | 252032 | 256630 | 3.16% | 0.169% |
| 26 | 8.445 | 1073 | 1081 | 1084 | rBV6 | 1105826 | 2029193 | 24.98% | 1.336% |
| 27 | 8.498 | 1088 | 1090 | 1093 | rBV3 | 496721 | 576583 | 7.10% | 0.380% |
| 28 | 8.533 | 1094 | 1096 | 1100 | rVB3 | 688000 | 799872 | 9.85% | 0.527% |
| 29 | 8.581 | 1100 | 1104 | 1105 | rBV | 955719 | 1113600 | 13.71% | 0.733% |
| 30 | 8.598 | 1105 | 1107 | 1109 | rVV2 | 1029181 | 950227 | 11.70% | 0.626% |
| 31 | 8.616 | 1109 | 1110 | 1114 | rVB3 | 1297198 | 947126 | 11.66% | 0.624% |
| 32 | 8.657 | 1114 | 1117 | 1120 | rBV3 | 881269 | 1097212 | 13.51% | 0.723% |
| 33 | 8.698 | 1121 | 1124 | 1128 | rVB2 | 1468495 | 1646203 | 20.27% | 1.084% |
| 34 | 8.745 | 1129 | 1132 | 1134 | rBV2 | 1492639 | 1631019 | 20.08% | 1.074% |

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Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

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-BF012020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.904 | 1156 | 1159 | 1161 | rBV3 | 1229863 | 1155928 | 14.23% | 0.761% |
| 36 | 9.039 | 1179 | 1182 | 1184 | rBV4 | 908200 | 1199568 | 14.77% | 0.790% |
| 37 | 9.151 | 1199 | 1201 | 1203 | rVB2 | 1663183 | 1274534 | 15.69% | 0.839% |
| 38 | 9.180 | 1203 | 1206 | 1209 | rBV4 | 2333477 | 2321081 | 28.58% | 1.528% |
| 39 | 9.222 | 1210 | 1213 | 1216 | rBV | 5452143 | 5643938 | 69.49% | 3.717% |
| 40 | 9.316 | 1225 | 1229 | 1233 | rBV3 | 4117998 | 5460036 | 67.23% | 3.596% |
| 41 | 9.486 | 1256 | 1258 | 1263 | rBV | 1640939 | 2272475 | 27.98% | 1.496% |
| 42 | 9.569 | 1269 | 1272 | 1274 | rBV | 2696446 | 2591481 | 31.91% | 1.707% |
| 43 | 9.592 | 1274 | 1276 | 1279 | rVB | 2021837 | 1635438 | 20.14% | 1.077% |
| 44 | 9.628 | 1279 | 1282 | 1286 | rVV3 | 5695649 | 6577606 | 80.99% | 4.331% |
| 45 | 9.686 | 1289 | 1292 | 1298 | rVB3 | 2341430 | 2818473 | 34.70% | 1.856% |
| 46 | 9.786 | 1306 | 1309 | 1312 | rBV2 | 2303121 | 2704176 | 33.30% | 1.781% |
| 47 | 9.833 | 1314 | 1317 | 1321 | rVV2 | 4143546 | 4359855 | 53.68% | 2.871% |
| 48 | 9.904 | 1325 | 1329 | 1335 | rVB5 | 3496160 | 4999612 | 61.56% | 3.292% |
| 49 | 10.116 | 1362 | 1365 | 1368 | rVB | 3561526 | 3440652 | 42.36% | 2.266% |
| 50 | 10.157 | 1369 | 1372 | 1374 | rVB | 3062071 | 2585832 | 31.84% | 1.703% |
| 51 | 10.233 | 1382 | 1385 | 1387 | rBV | 3197379 | 3432991 | 42.27% | 2.261% |
| 52 | 10.257 | 1387 | 1389 | 1392 | rVV | 3443371 | 2843351 | 35.01% | 1.872% |
| 53 | 10.286 | 1392 | 1394 | 1397 | rVV3 | 1388930 | 1671384 | 20.58% | 1.101% |
| 54 | 10.327 | 1399 | 1401 | 1407 | rVB4 | 3316758 | 5352571 | 65.90% | 3.525% |
| 55 | 10.575 | 1440 | 1443 | 1446 | rVB2 | 2658339 | 2597907 | 31.99% | 1.711% |
| 56 | 10.839 | 1483 | 1488 | 1495 | rVB2 | 4840078 | 8121732 | 100.00% | 5.348% |
| 57 | 10.904 | 1496 | 1499 | 1501 | rBV | 2385419 | 2426705 | 29.88% | 1.598% |
| 58 | 11.039 | 1519 | 1522 | 1525 | rBV3 | 3077083 | 3303820 | 40.68% | 2.176% |
| 59 | 11.204 | 1548 | 1550 | 1553 | rBV3 | 1474343 | 1467100 | 18.06% | 0.966% |
| 60 | 11.298 | 1563 | 1566 | 1571 | rVB4 | 3466236 | 4346271 | 53.51% | 2.862% |
| 61 | 11.398 | 1580 | 1583 | 1585 | rBV | 1551169 | 1664237 | 20.49% | 1.096% |
| 62 | 11.898 | 1666 | 1668 | 1670 | rBV | 1276929 | 1004983 | 12.37% | 0.662% |
| 63 | 11.921 | 1670 | 1672 | 1678 | rVB3 | 2780950 | 3175632 | 39.10% | 2.091% |
| 64 | 12.369 | 1746 | 1748 | 1750 | rBV2 | 1142450 | 988153 | 12.17% | 0.651% |
| 65 | 12.445 | 1758 | 1761 | 1763 | rVB | 2131441 | 1947609 | 23.98% | 1.283% |
| 66 | 12.474 | 1764 | 1766 | 1769 | rVB | 1392874 | 1308254 | 16.11% | 0.862% |
| 67 | 12.851 | 1827 | 1830 | 1833 | rVV3 | 1069305 | 1131657 | 13.93% | 0.745% |
| 68 | 12.886 | 1834 | 1836 | 1840 | rVB | 967799 | 924713 | 11.39% | 0.609% |
| 69 | 12.968 | 1847 | 1850 | 1853 | rVB | 5818935 | 5271751 | 64.91% | 3.472% |
| 70 | 13.198 | 1887 | 1889 | 1896 | rVB4 | 406463 | 537233 | 6.61% | 0.354% |
| 71 | 13.857 | 1998 | 2001 | 2012 | rVB | 719039 | 970395 | 11.95% | 0.639% |

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Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

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-BF012020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.015 | 2024 | 2028 | 2031 | rVB | 1853140 | 1655925 | 20.39% | 1.090% |
| 73 | 14.180 | 2053 | 2056 | 2066 | rVB | 206631 | 269117 | 3.31% | 0.177% |
| 74 | 14.486 | 2105 | 2108 | 2112 | rVB | 256225 | 230424 | 2.84% | 0.152% |
| 75 | 14.792 | 2156 | 2160 | 2167 | rVB | 299479 | 310972 | 3.83% | 0.205% |
| 76 | 14.868 | 2169 | 2173 | 2177 | rBV | 265958 | 274986 | 3.39% | 0.181% |
| 77 | 15.127 | 2213 | 2217 | 2229 | rVB | 320263 | 425451 | 5.24% | 0.280% |
| 78 | 15.474 | 2271 | 2276 | 2280 | rBV | 1363276 | 1701743 | 20.95% | 1.121% |
| 79 | 15.509 | 2280 | 2282 | 2287 | rVB | 264817 | 318210 | 3.92% | 0.210% |
| 80 | 15.951 | 2352 | 2357 | 2362 | rBV | 189517 | 294804 | 3.63% | 0.194% |
| 81 | 16.456 | 2438 | 2443 | 2455 | rVB3 | 122785 | 269663 | 3.32% | 0.178% |

Sum of corrected areas: 151857413

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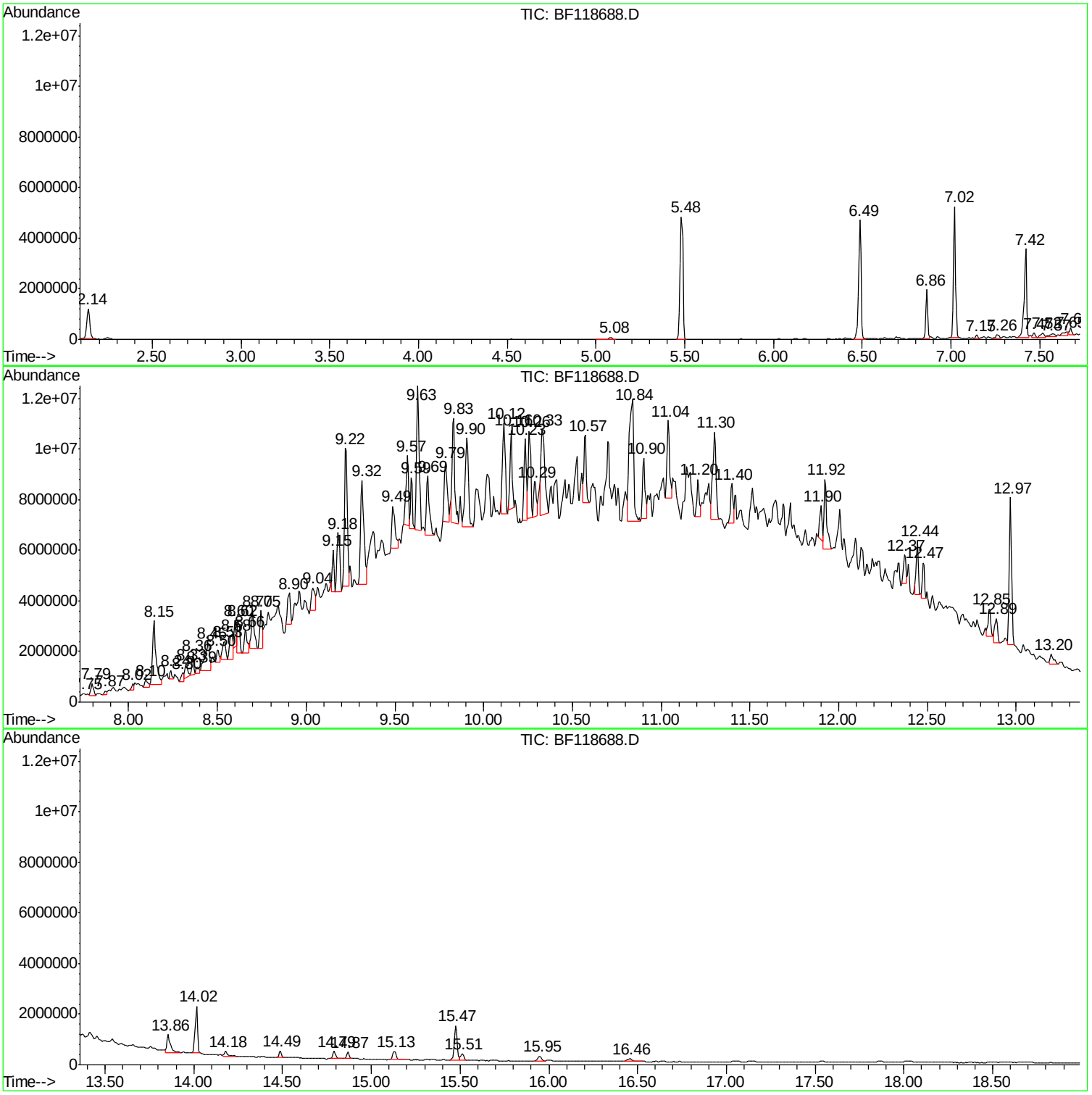
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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\BF012420\
Data File : BF118688.D
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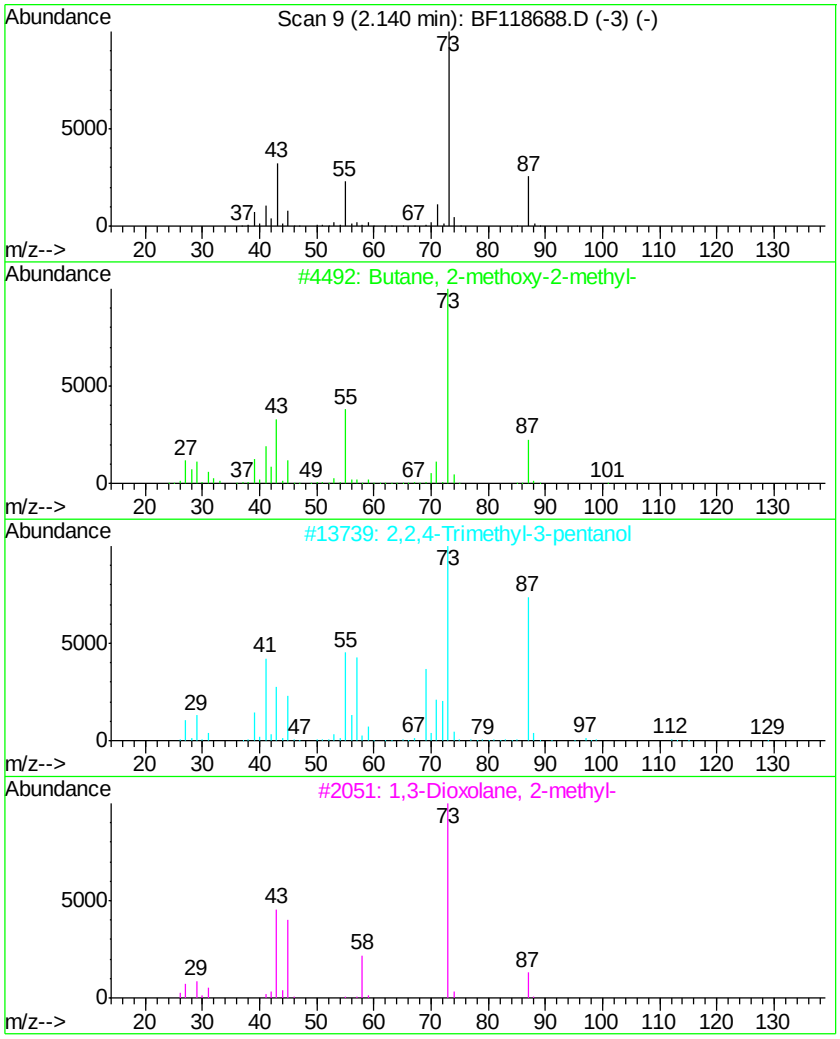
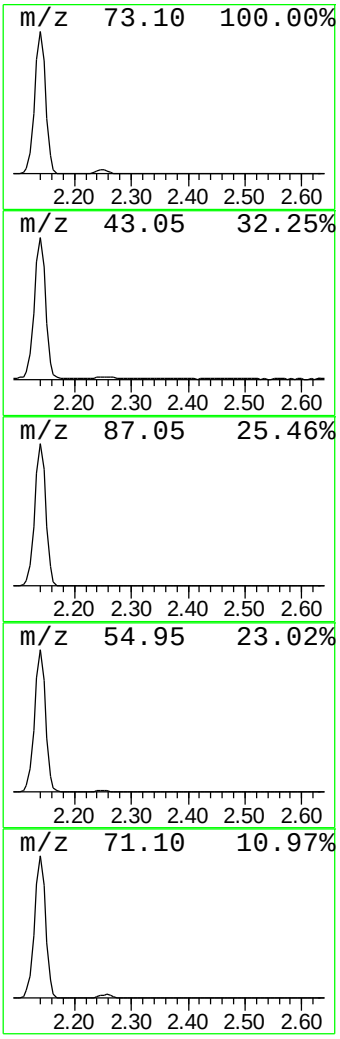
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.14 | 20.68 ng | 1601860 | 1,4-Dichlorobenzene-d4 | 6.86 |

| 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 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 37 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |



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Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

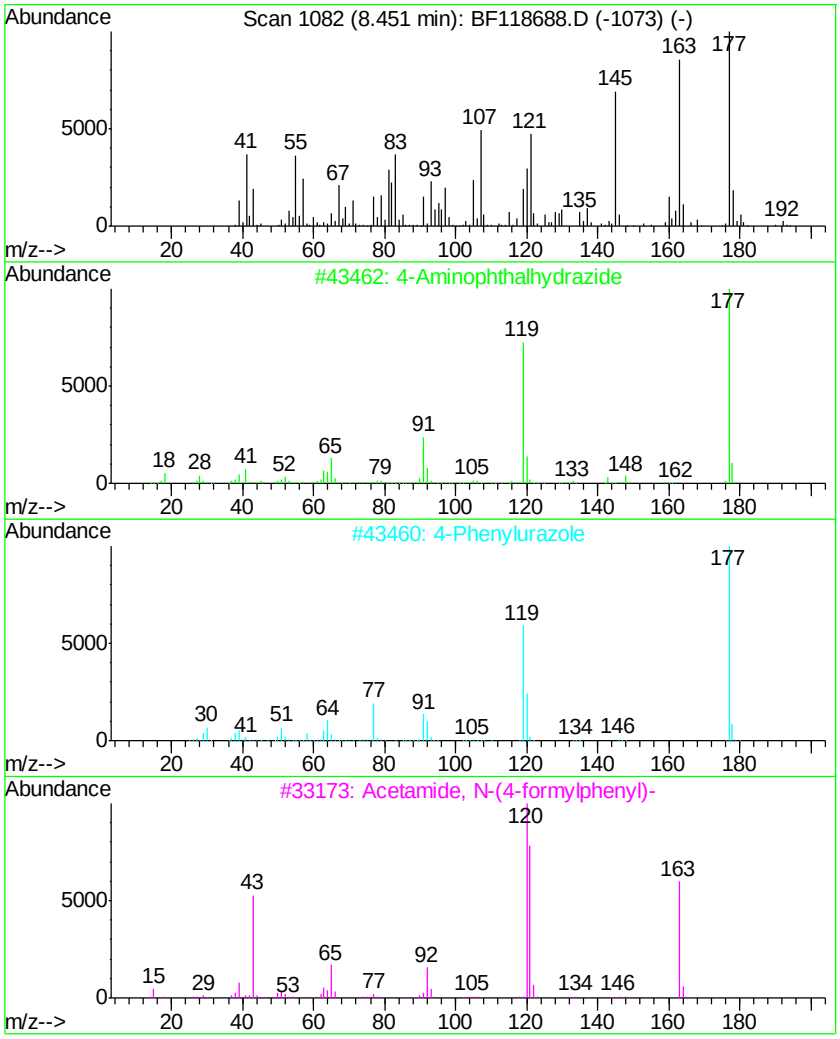
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

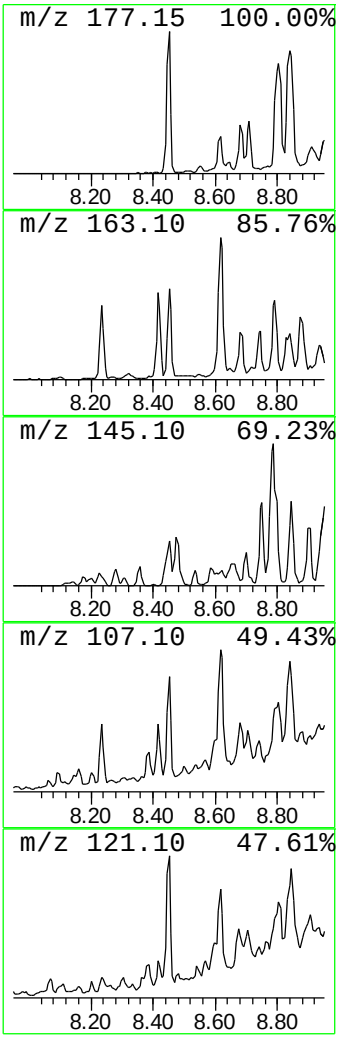
**********

Peak Number 3 unknown8.45 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.45 | 11.31 ng | 2029190 | Naphthalene-d8 | 8.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Aminophthalhydrazide | 177 | C8H7N3O2 | 003682-14-2 | 18 |
| 2 | 4-Phenylurazole | 177 | C8H7N3O2 | 015988-11-1 | 14 |
| 3 | Acetamide, N-(4-formylphenyl)- | 163 | C9H9NO2 | 000122-85-0 | 11 |
| 4 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 11 |
| 5 | Pyrazine, (1-methylethenyl)- | 120 | C7H8N2 | 038713-41-6 | 11 |



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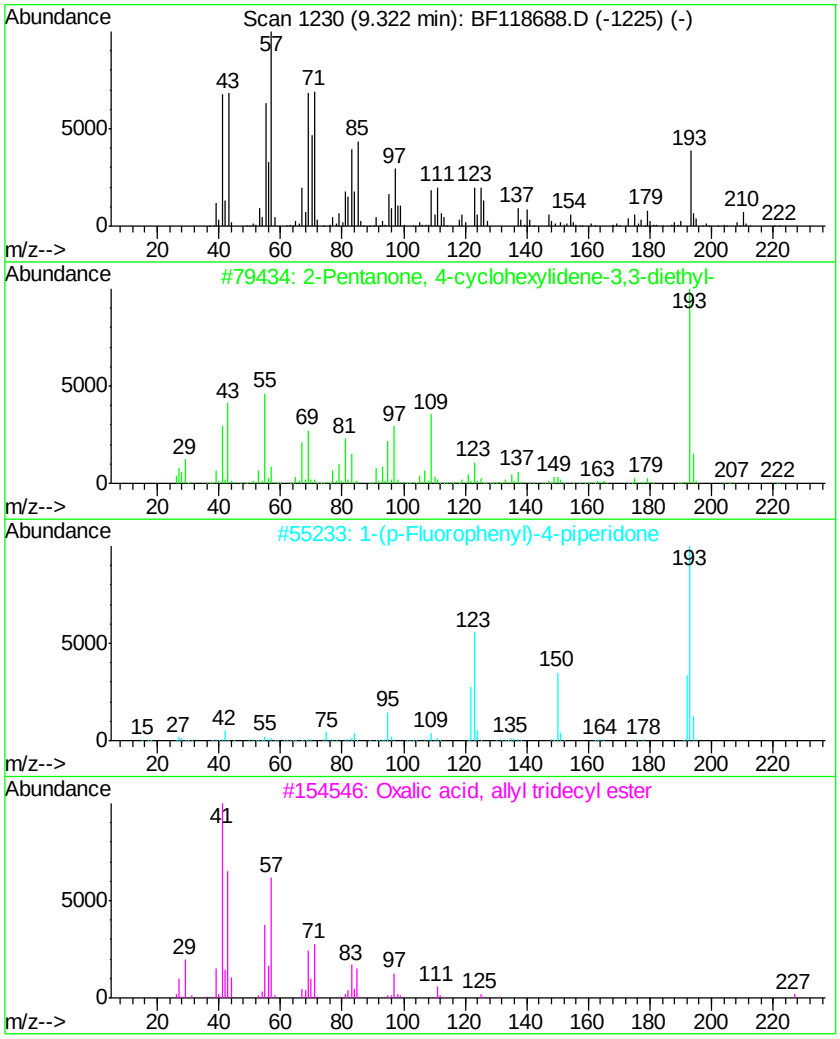
TIC Integration Parameters: LSCINT.P

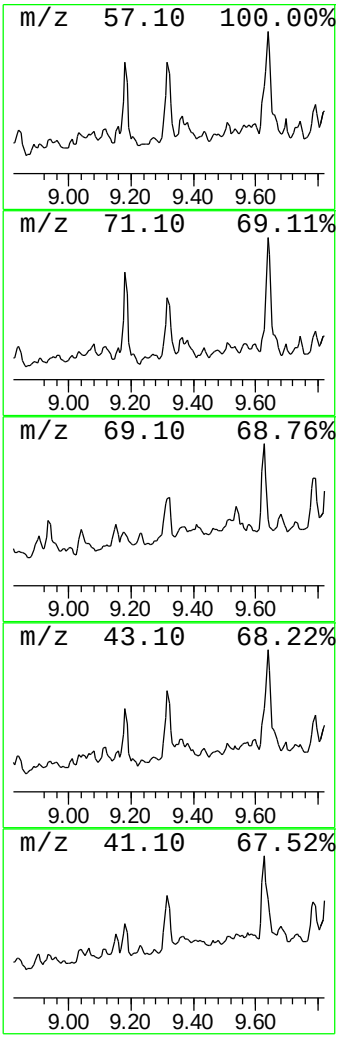
**********

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.32 | 21.84 ng | 5460040 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O | 313253-65-5 | 45 |
| 2 | 1-(p-Fluorophenyl)-4-piperidone | 193 | C11H12FNO | 1000238-56-7 | 38 |
| 3 | Oxalic acid, allyl tridecyl ester | 312 | C18H32O4 | 1000309-24-1 | 30 |
| 4 | Oxalic acid, cyclobutyl pentadec... | 354 | C21H38O4 | 1000309-70-5 | 30 |
| 5 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 30 |



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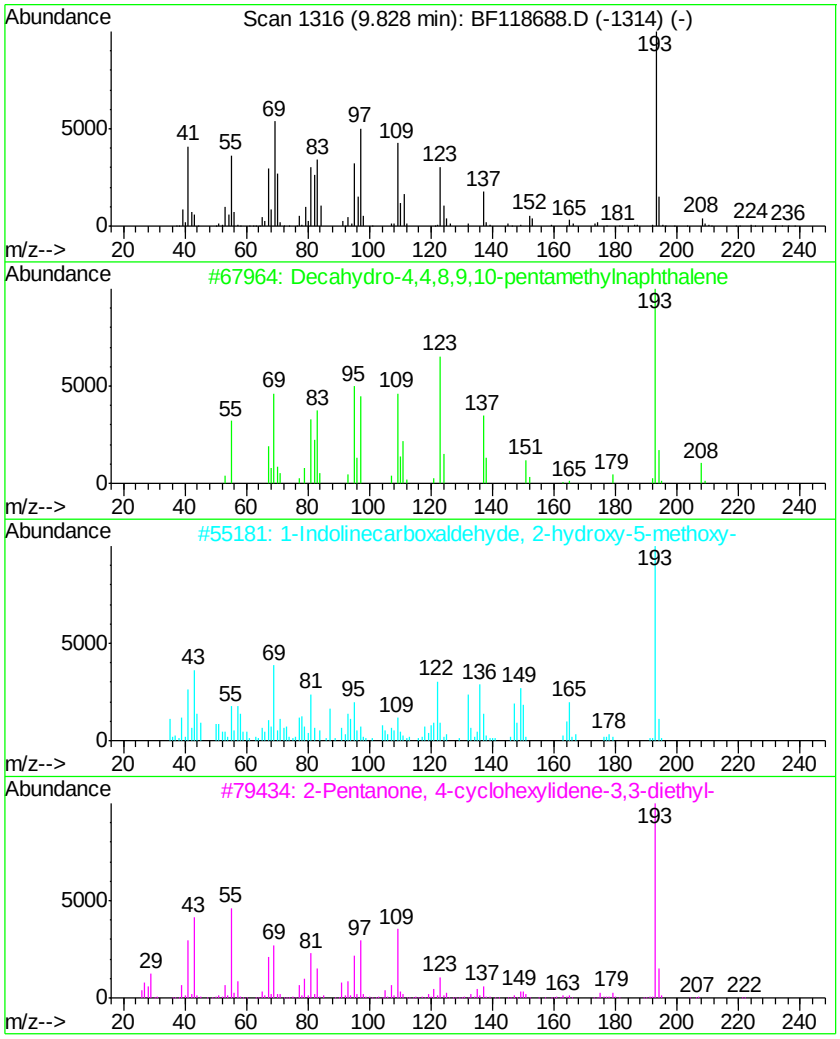
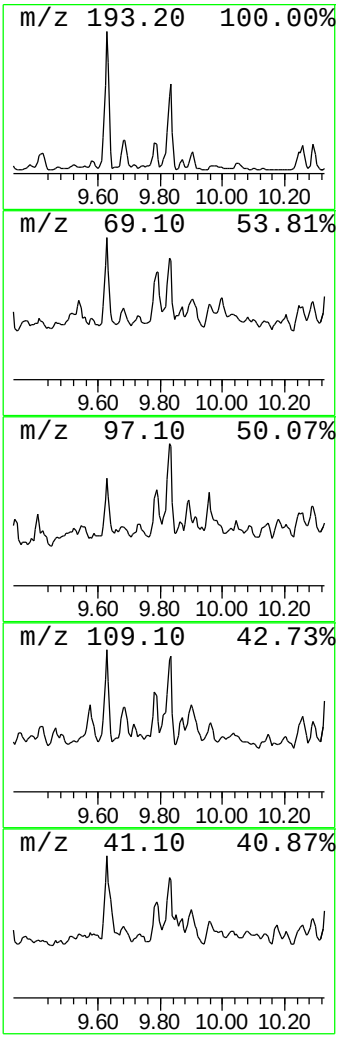
**********

Peak Number 5 Decahydro-4,4,8,9,10-pentam... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.83 | 17.44 ng | 4359860 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 70 |
| 2 | 1-Indolinecarboxaldehyde, 2-hydr... | 193 | C10H11NO3 | 013303-70-3 | 47 |
| 3 | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O | 313253-65-5 | 39 |
| 4 | 1-(p-Fluorophenyl)-4-piperidone | 193 | C11H12FNO | 1000238-56-7 | 38 |
| 5 | S-Phenyl 5-(phenylthio)pentaneth... | 302 | C17H18OS2 | 1000234-40-7 | 28 |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

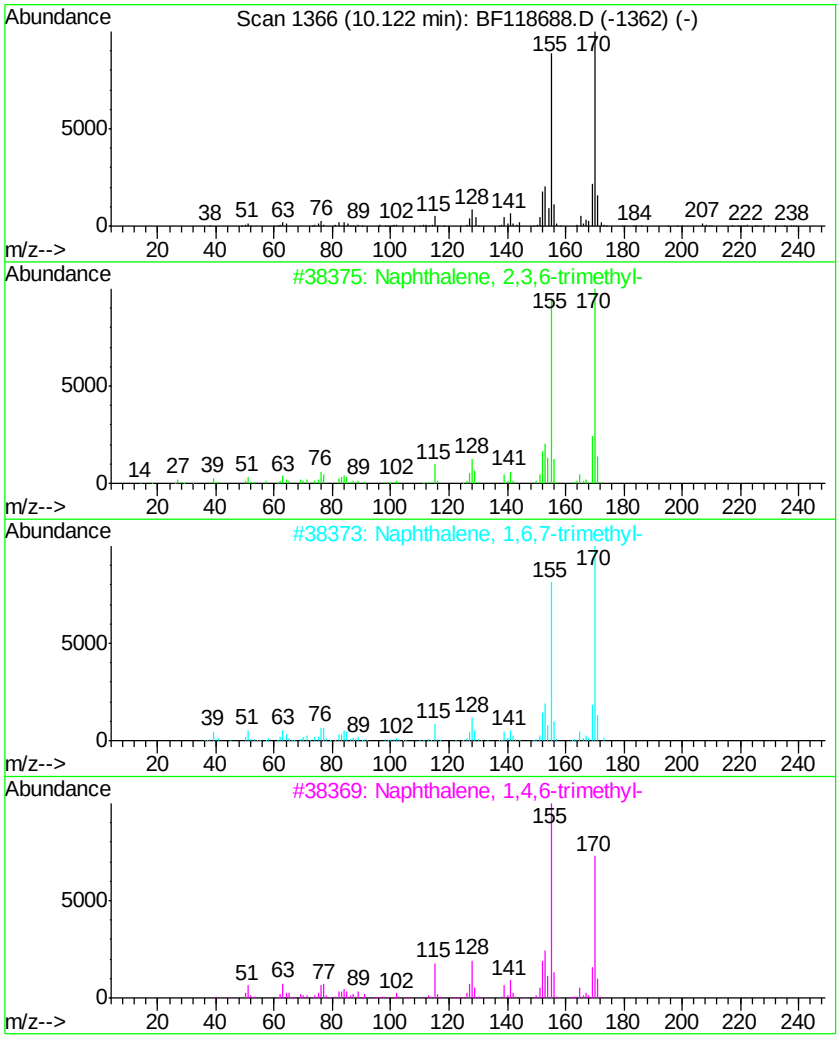
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

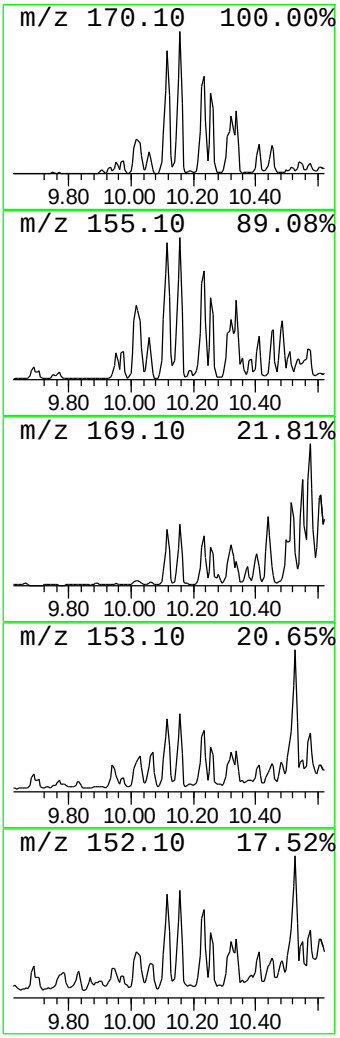
**********

Peak Number 6 Naphthalene, 2,3,6-trimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.12 | 13.76 ng | 3440650 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 98 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 4 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 93 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 91 |



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Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

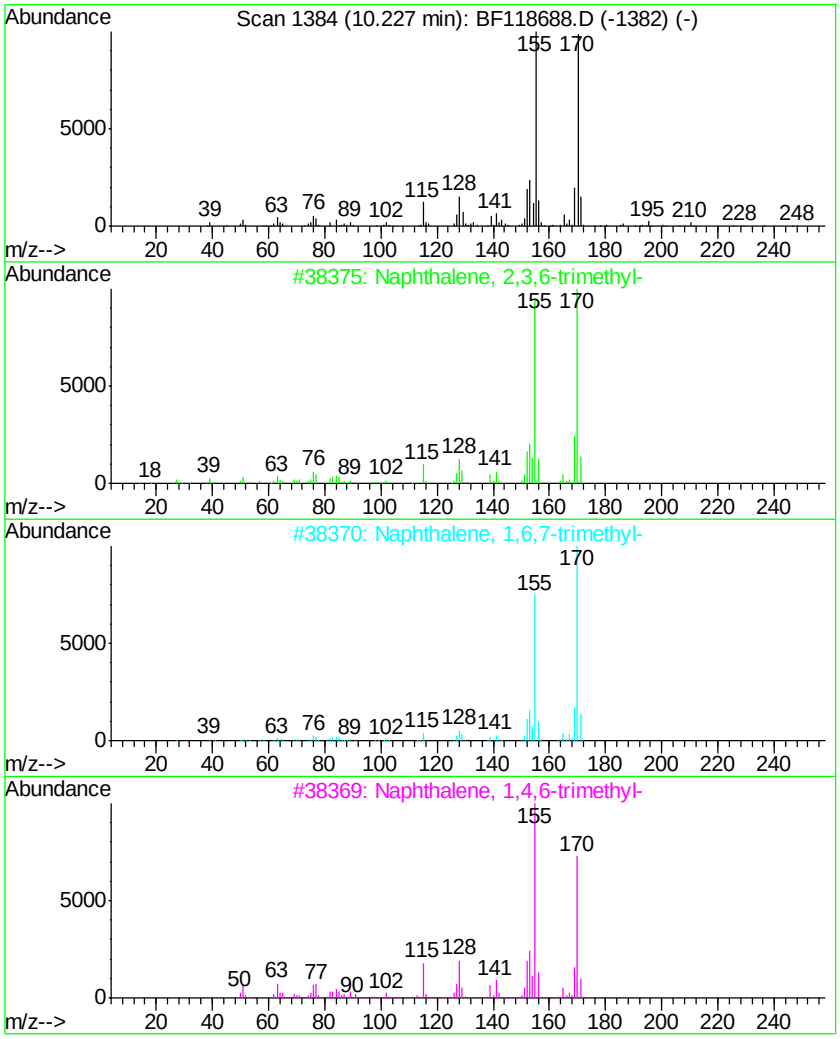
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

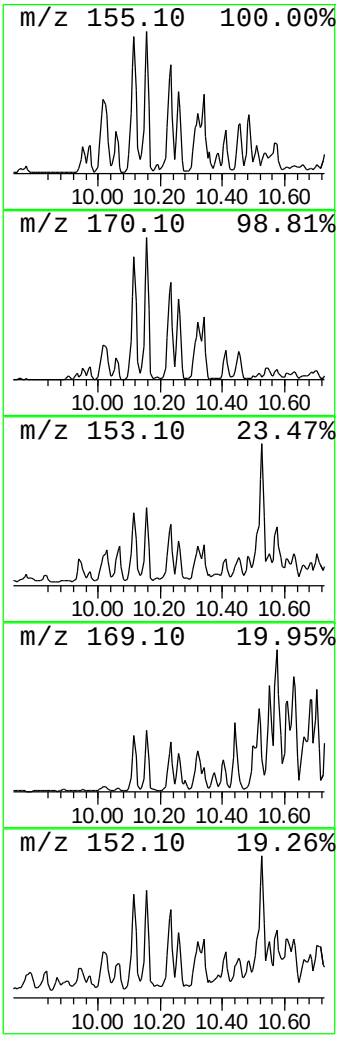
**********

Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.23 | 13.73 ng | 3432990 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 98 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 4 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 93 |
| 5 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 87 |



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Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

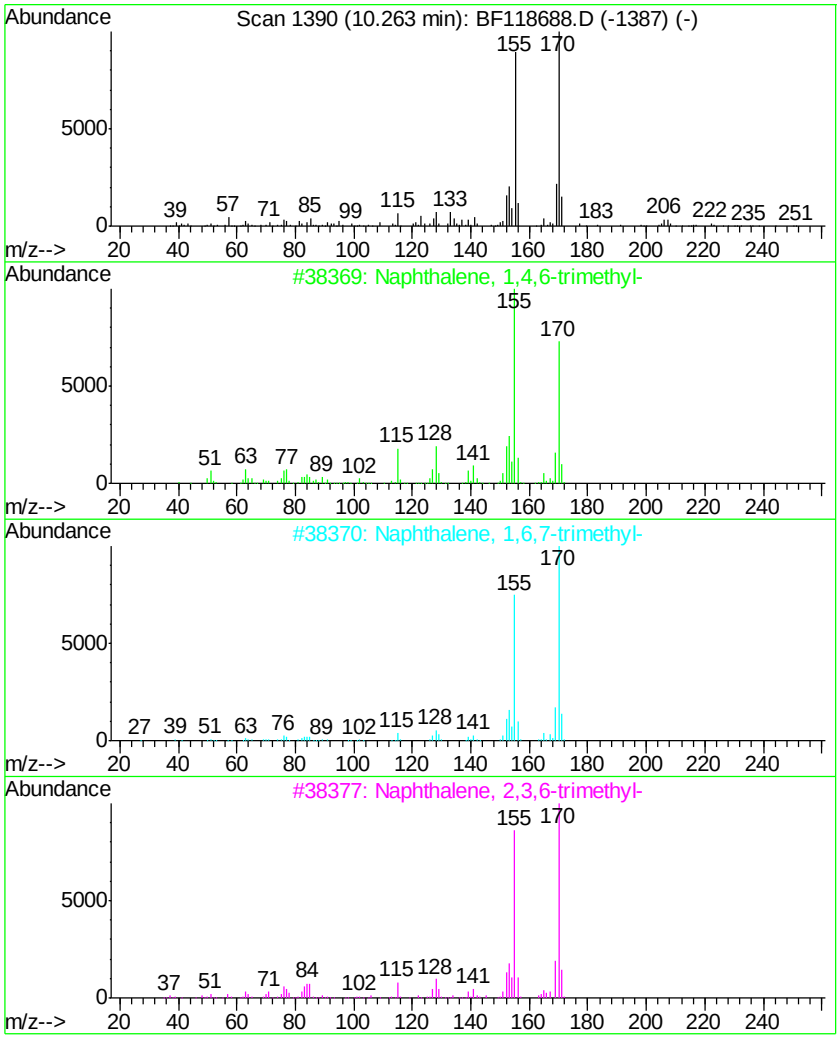
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

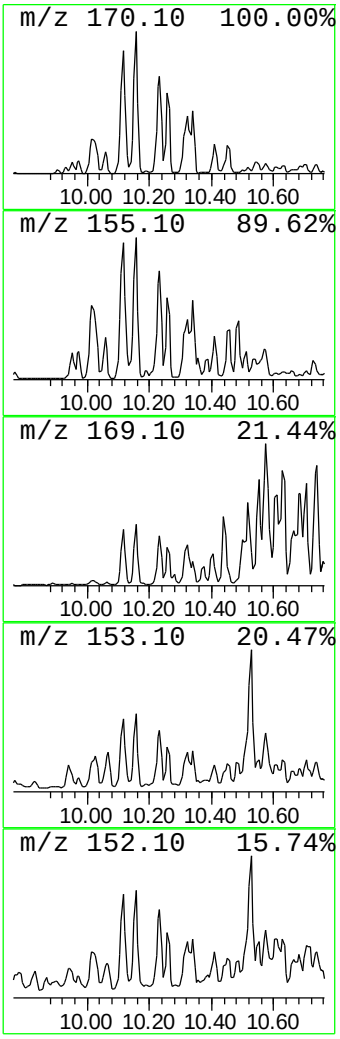
**********

Peak Number 8 Naphthalene, 1,4,6-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.26 | 11.37 ng | 2843350 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 97 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 3 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 94 |
| 4 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 91 |
| 5 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 90 |



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Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

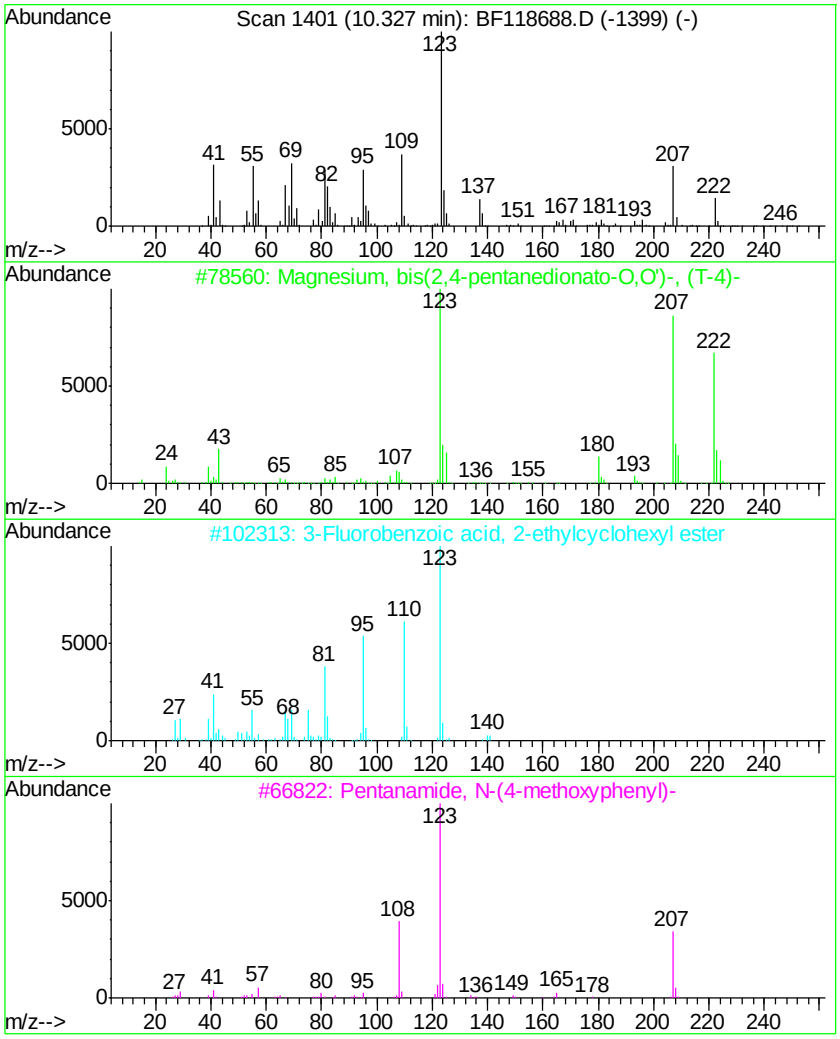
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

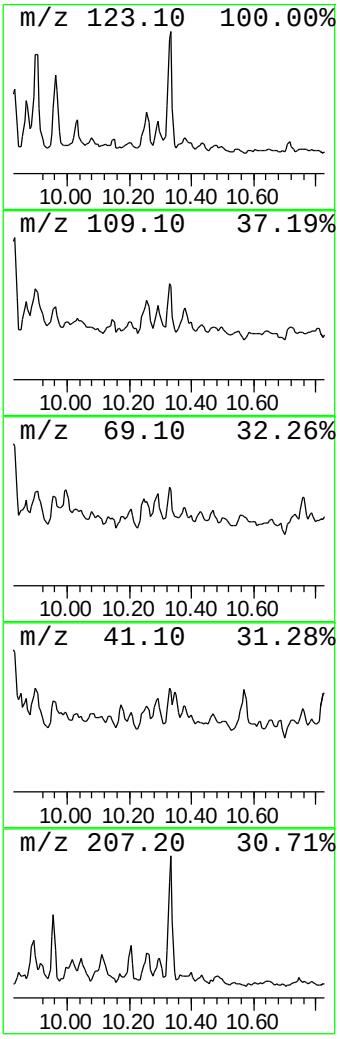
**********

Peak Number 9 Magnesium, bis(2,4-pentaned... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 21.41 ng | 5352570 | Acenaphthene-d10 | 9.91 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Magnesium, bis(2,4-pentanedionat... | 222 | C10H14MgO4 | 014024-56-7 | 50 |
| 2 | 3-Fluorobenzoic acid, 2-ethylcyc... | 250 | C15H19FO2 | 1000279-04-9 | 47 |
| 3 | Pentanamide, N-(4-methoxyphenyl)- | 207 | C12H17NO2 | 1000306-89-3 | 47 |
| 4 | 4-Fluorobenzoic acid, 3-methylbu... | 208 | C12H13FO2 | 1000299-15-1 | 43 |
| 5 | 4-Fluorobenzoic acid, 2,2-dimeth... | 210 | C12H15FO2 | 069912-03-4 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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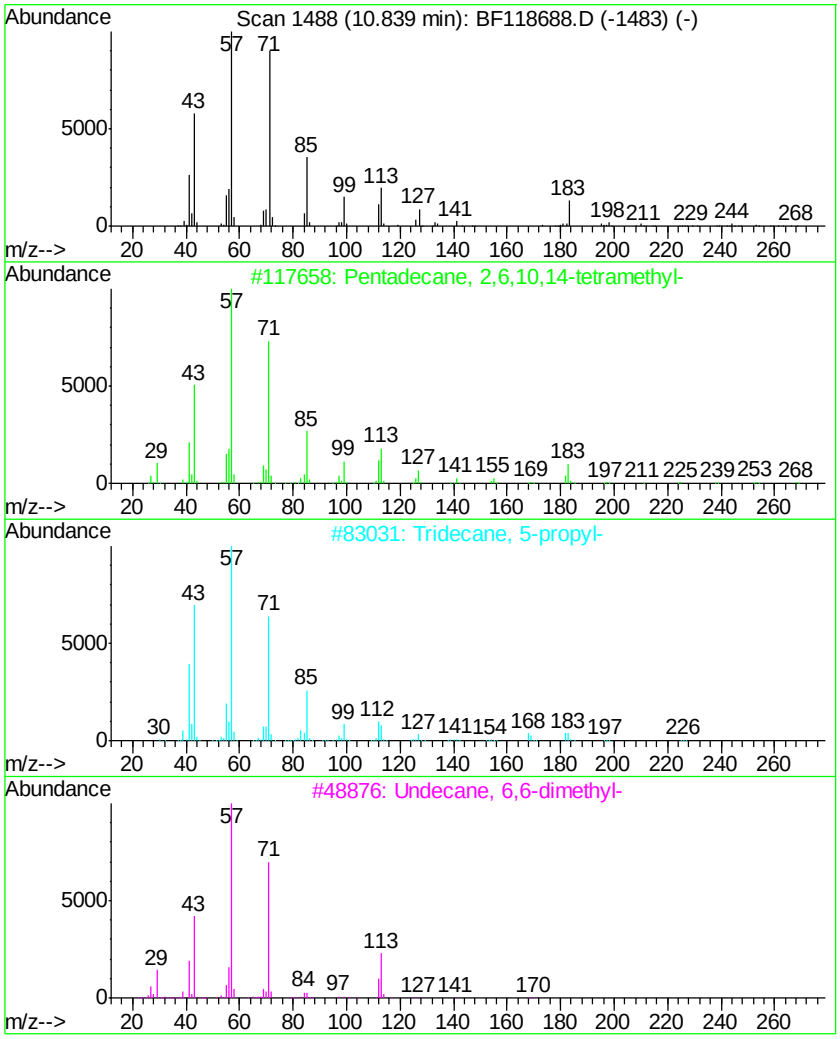
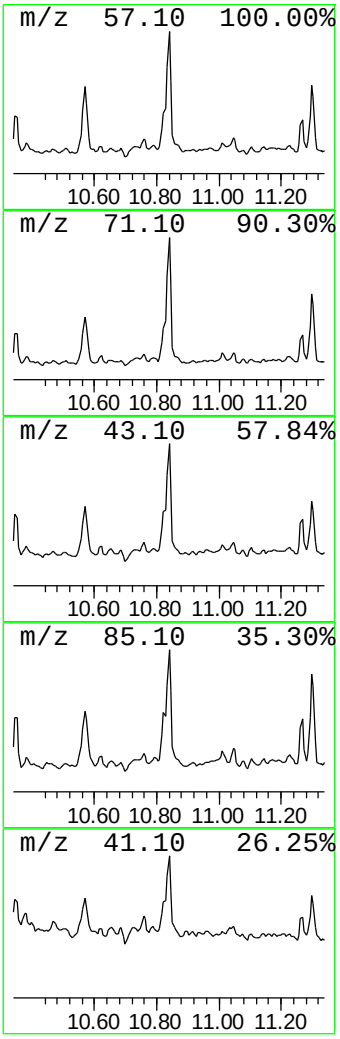
Peak Number 10 Pentadecane, 2,6,10,14-tetr... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.84 | 97.60 ng | 8121730 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 90 |
| 2 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 72 |
| 3 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 64 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 64 |
| 5 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 53 |



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Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

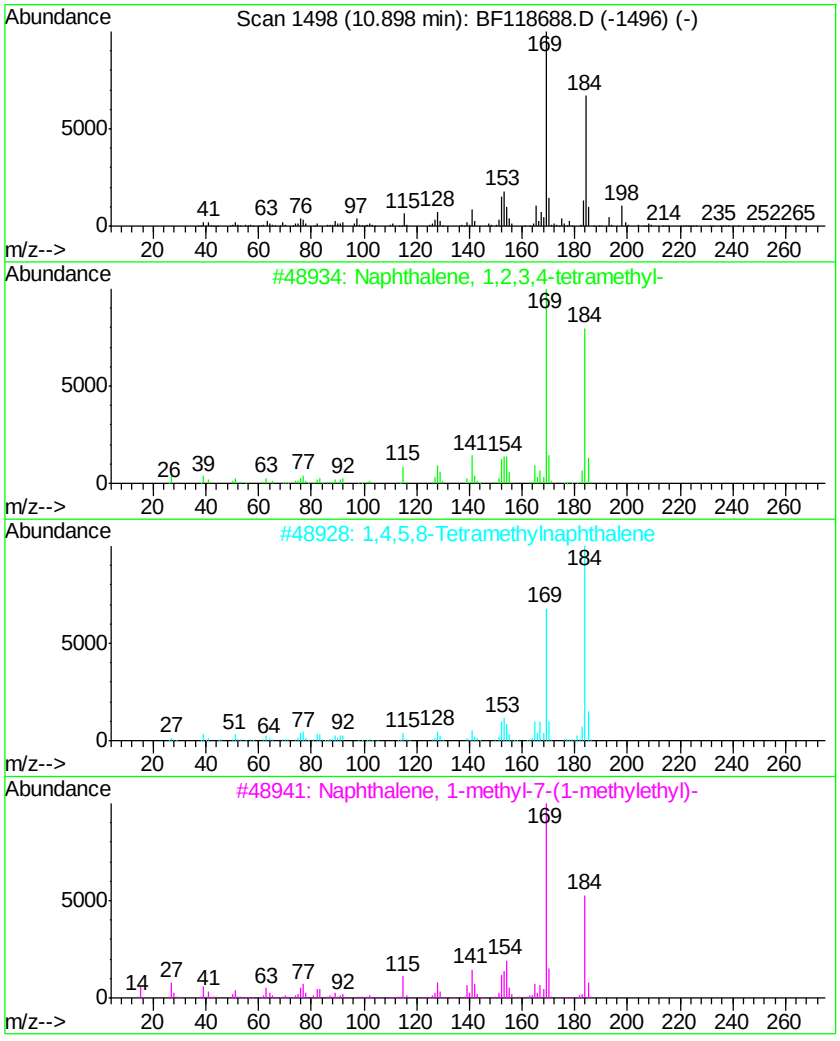
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

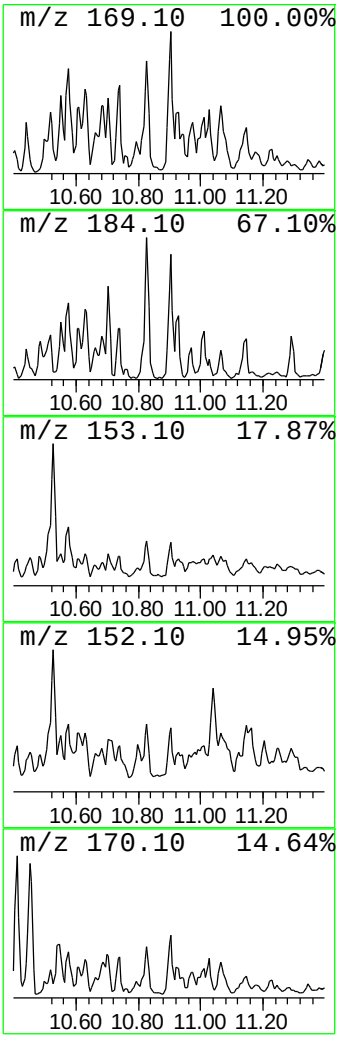
**********

Peak Number 11 Naphthalene, 1,2,3,4-tetram... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 29.16 ng | 2426710 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetramethyl- | 184 | C14H16 | 003031-15-0 | 94 |
| 2 | 1,4,5,8-Tetramethylnaphthalene | 184 | C14H16 | 002717-39-7 | 93 |
| 3 | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16 | 000490-65-3 | 93 |
| 4 | Chamazulene | 184 | C14H16 | 000529-05-5 | 89 |
| 5 | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16 | 1000152-22-4 | 87 |



Library Search Compound Report

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Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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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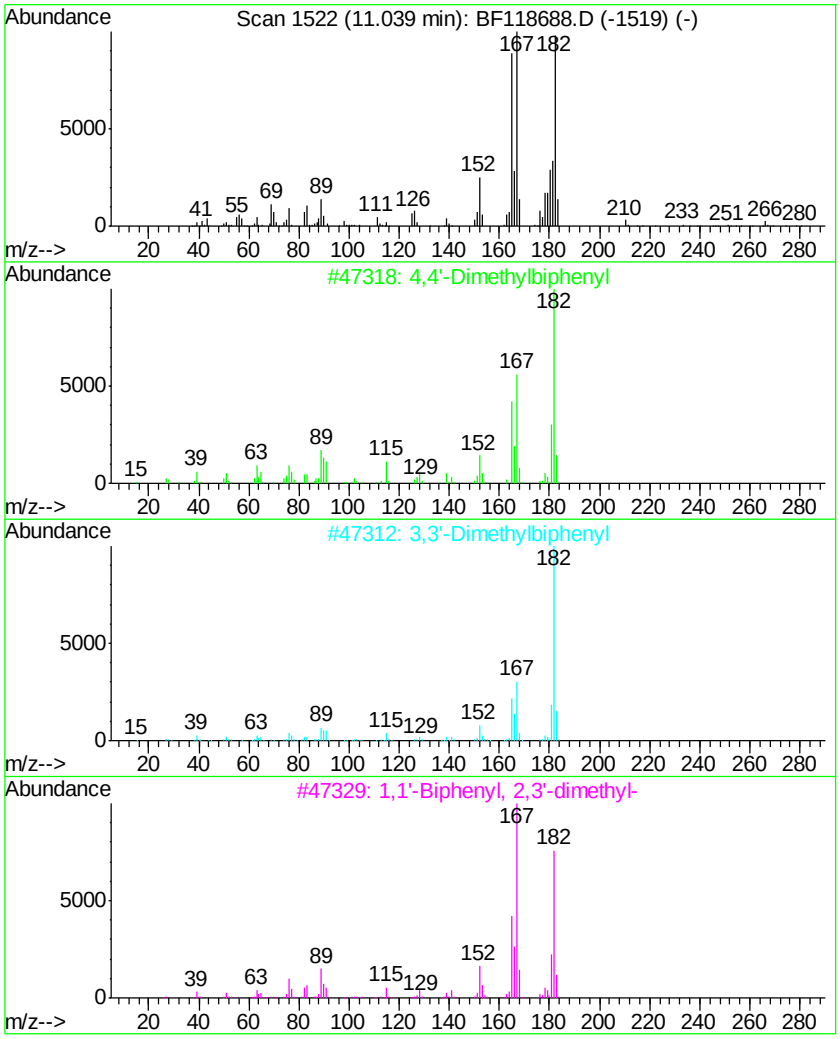
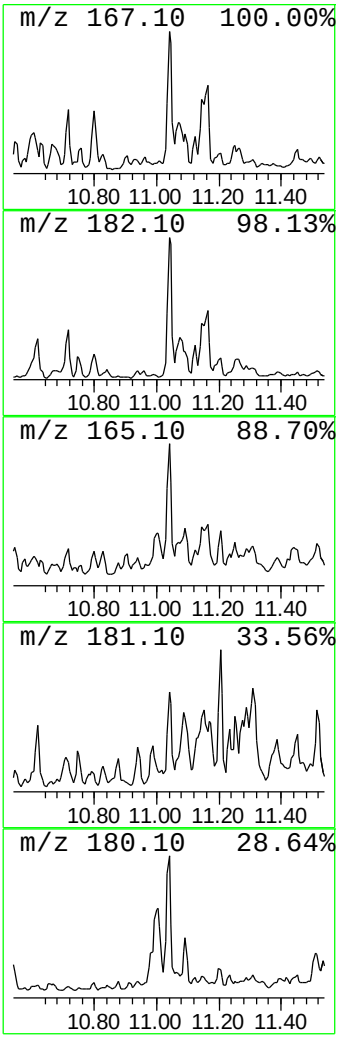
Peak Number 12 4,4'-Dimethylbiphenyl Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.04 | 39.70 ng | 3303820 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 93 |
| 2 | 3,3'-Dimethylbiphenyl | 182 | C14H14 | 000612-75-9 | 81 |
| 3 | 1,1'-Biphenyl, 2,3'-dimethyl- | 182 | C14H14 | 000611-43-8 | 76 |
| 4 | 1,1'-Biphenyl, 3,4'-dimethyl- | 182 | C14H14 | 007383-90-6 | 72 |
| 5 | 1,1'-Biphenyl, 2-ethyl- | 182 | C14H14 | 001812-51-7 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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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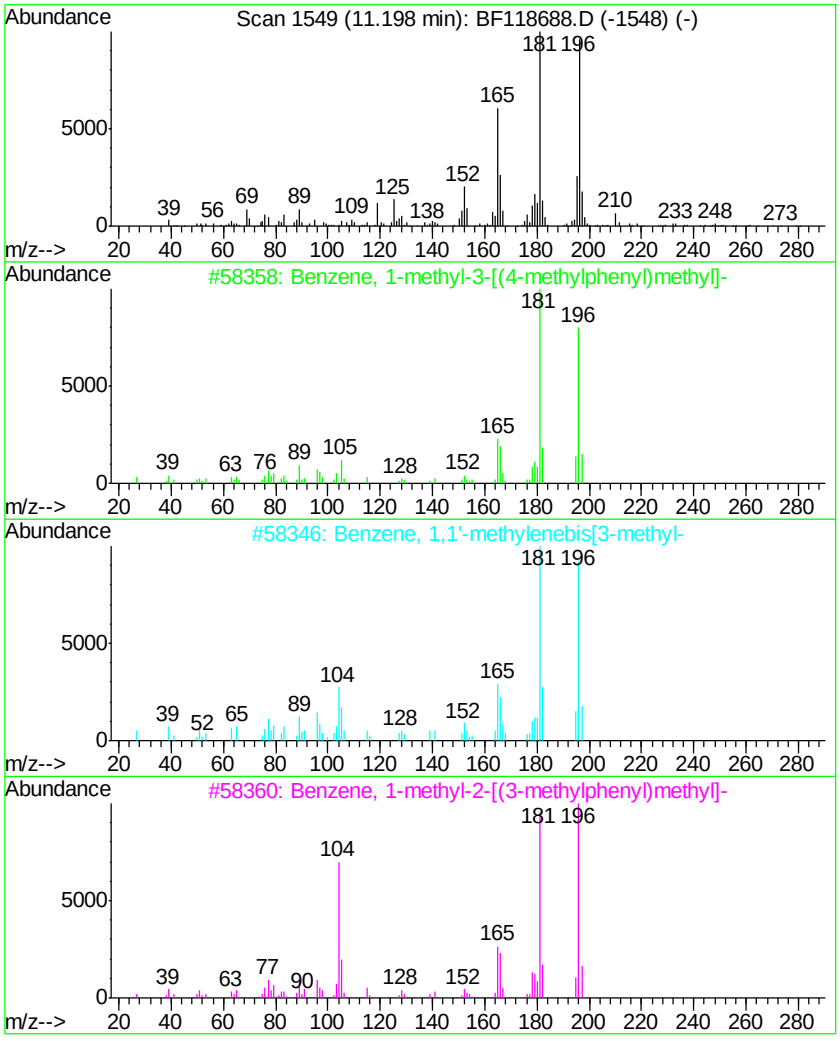
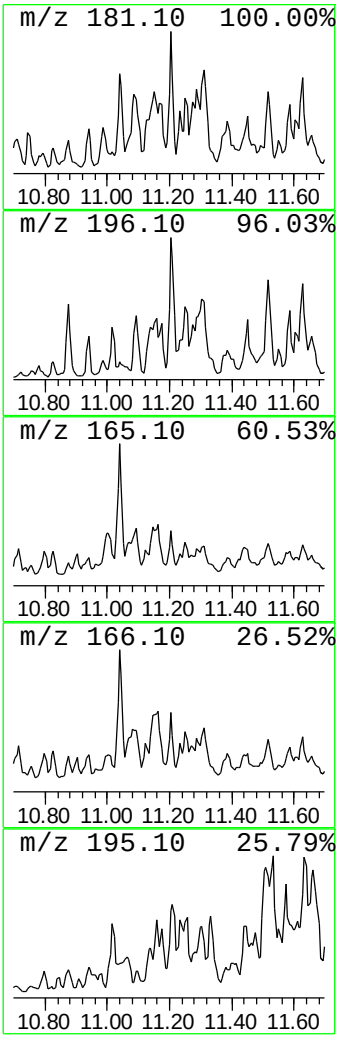
Peak Number 13 Benzene, 1-methyl-3-[(4-met... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 17.63 ng | 1467100 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-[(4-methylph... | 196 | C15H16 | 021895-16-9 | 76 |
| 2 | Benzene, 1,1'-methylenebis[3-met... | 196 | C15H16 | 021895-14-7 | 68 |
| 3 | Benzene, 1-methyl-2-[(3-methylph... | 196 | C15H16 | 021895-13-6 | 64 |
| 4 | Dibenz[c,e]oxepin, 5,7-dihydro- | 196 | C14H12O | 001136-22-7 | 50 |
| 5 | 1,1'-Biphenyl, 4-(1-methylethyl)- | 196 | C15H16 | 007116-95-2 | 50 |



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Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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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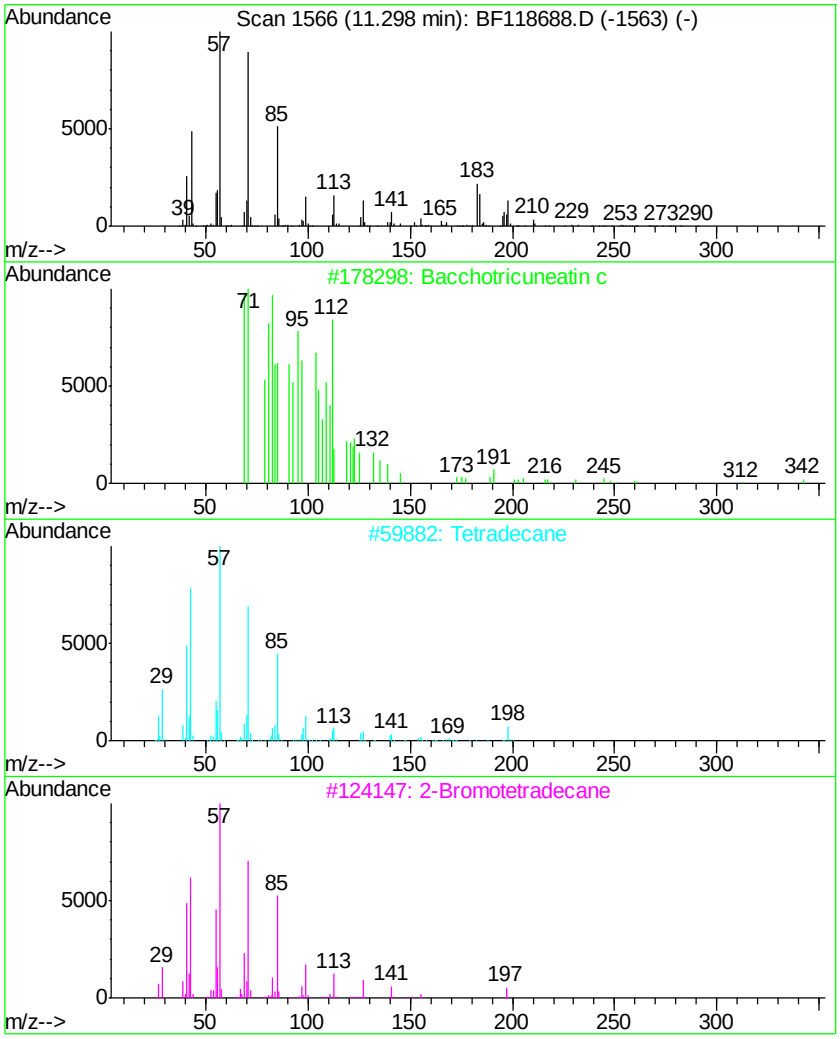
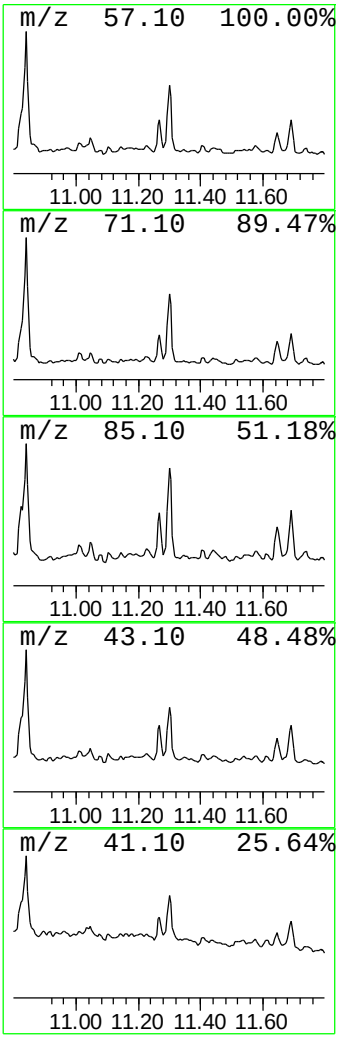
Peak Number 14 Bacchotricuneatin c Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.30 | 52.23 ng | 4346270 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 90 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 89 |
| 3 | 2-Bromotetradecane | 276 | C14H29Br | 074036-95-6 | 68 |
| 4 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 64 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
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Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

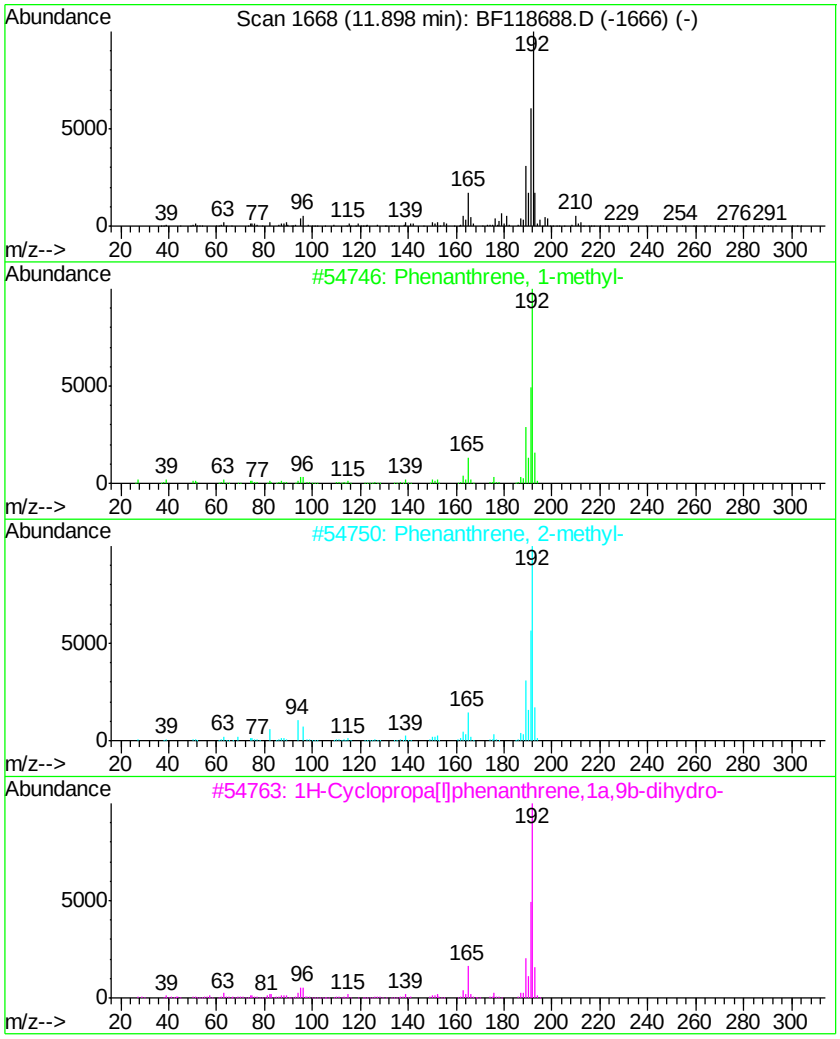
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

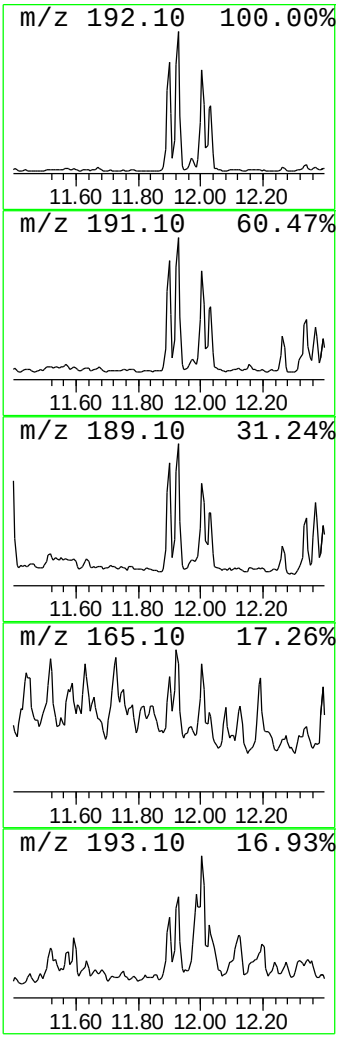
**********

Peak Number 15 Phenanthrene, 1-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 12.08 ng | 1004980 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 94 |
| 5 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.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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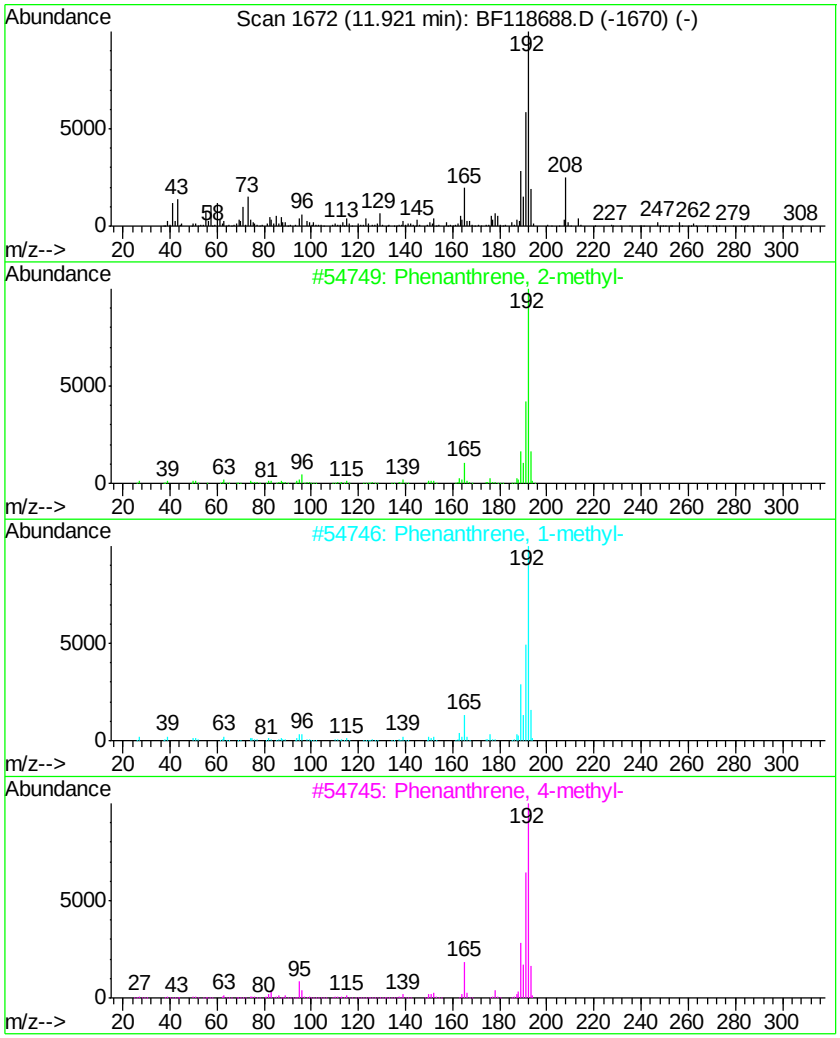
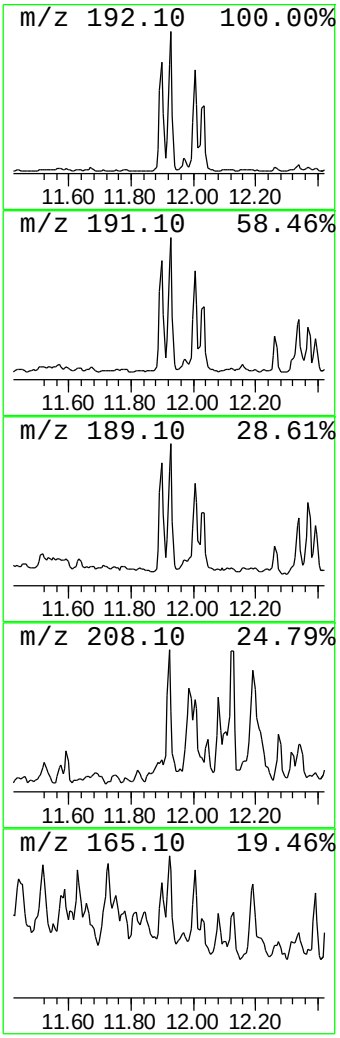
Peak Number 16 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 38.16 ng | 3175630 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 91 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 86 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 86 |



Library Search Compound Report

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Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

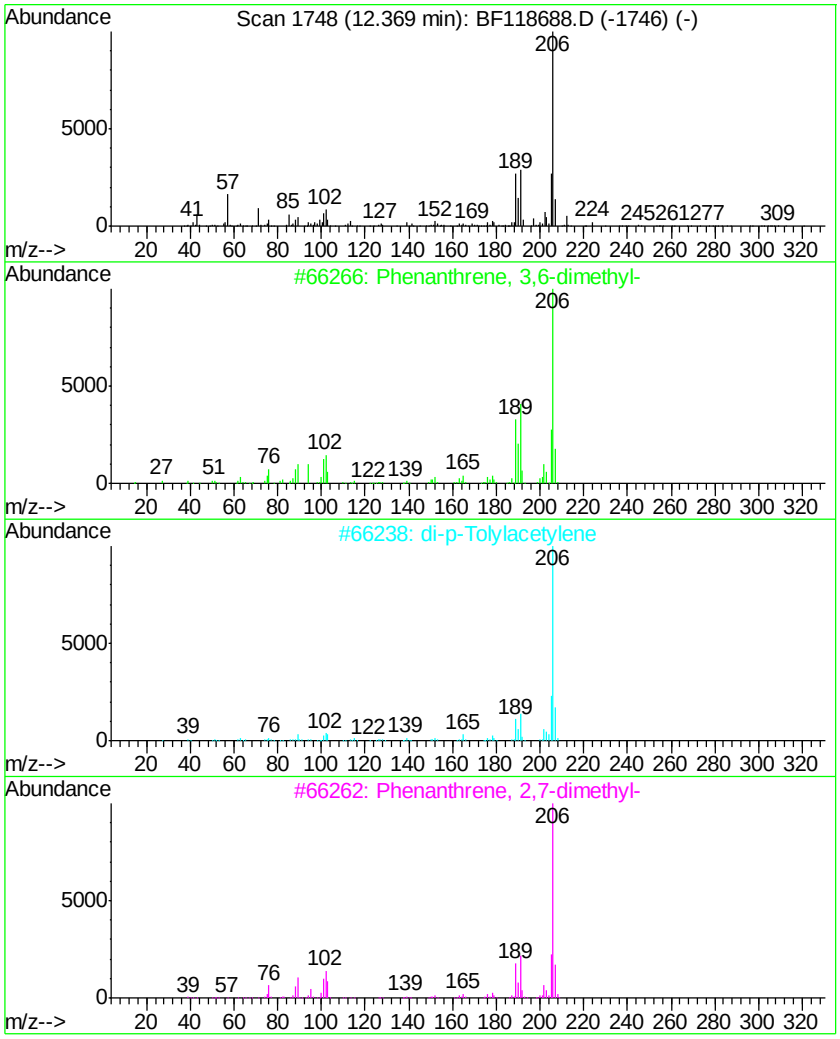
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

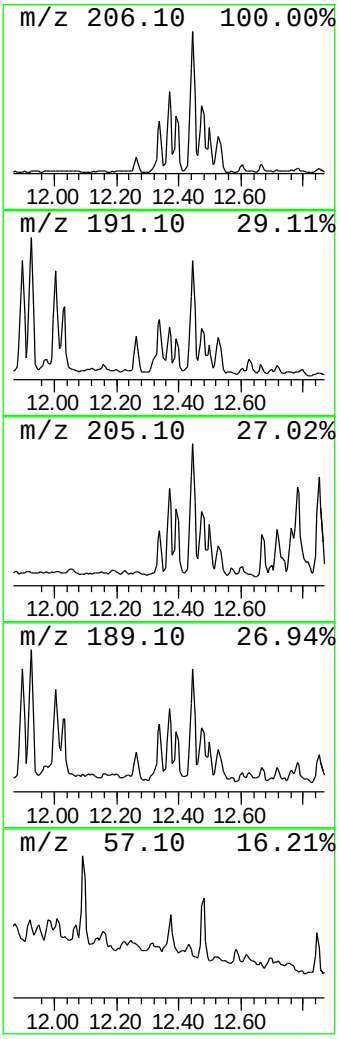
**********

Peak Number 17 Phenanthrene, 3,6-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.37 | 11.88 ng | 988153 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 90 |
| 3 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 87 |
| 4 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 80 |
| 5 | 1,4-Diphenyl-1,3-butadiene | 206 | C16H14 | 000886-65-7 | 72 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

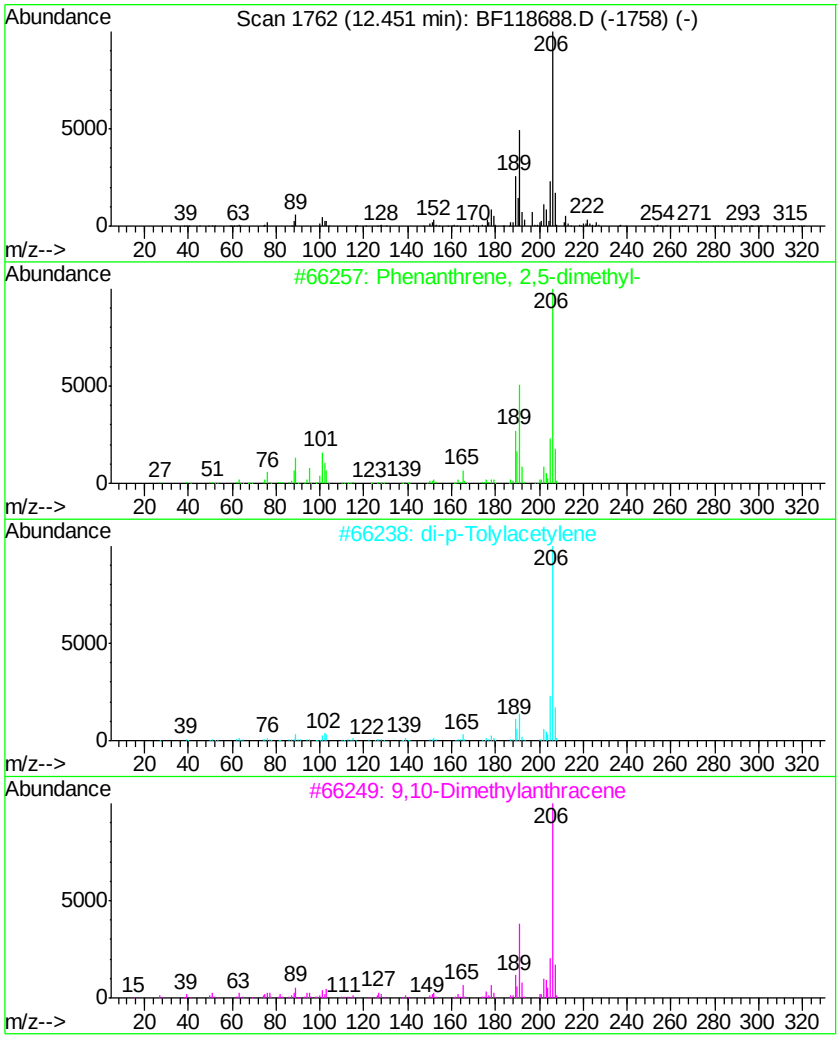
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

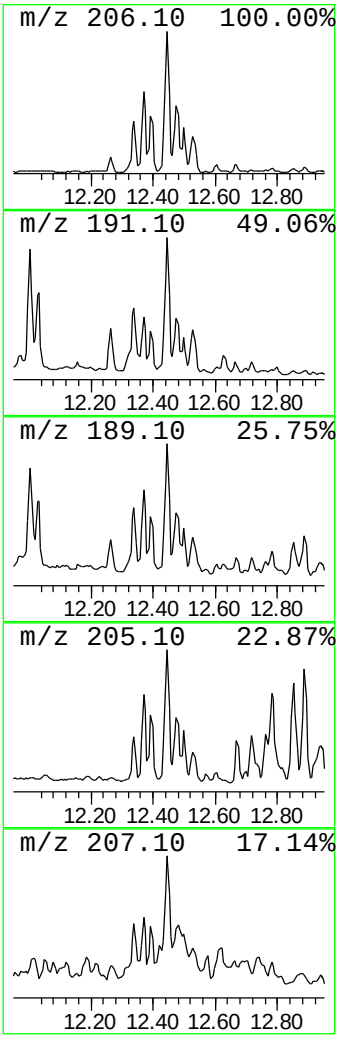
**********

Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 23.41 ng | 1947610 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 91 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 89 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 87 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

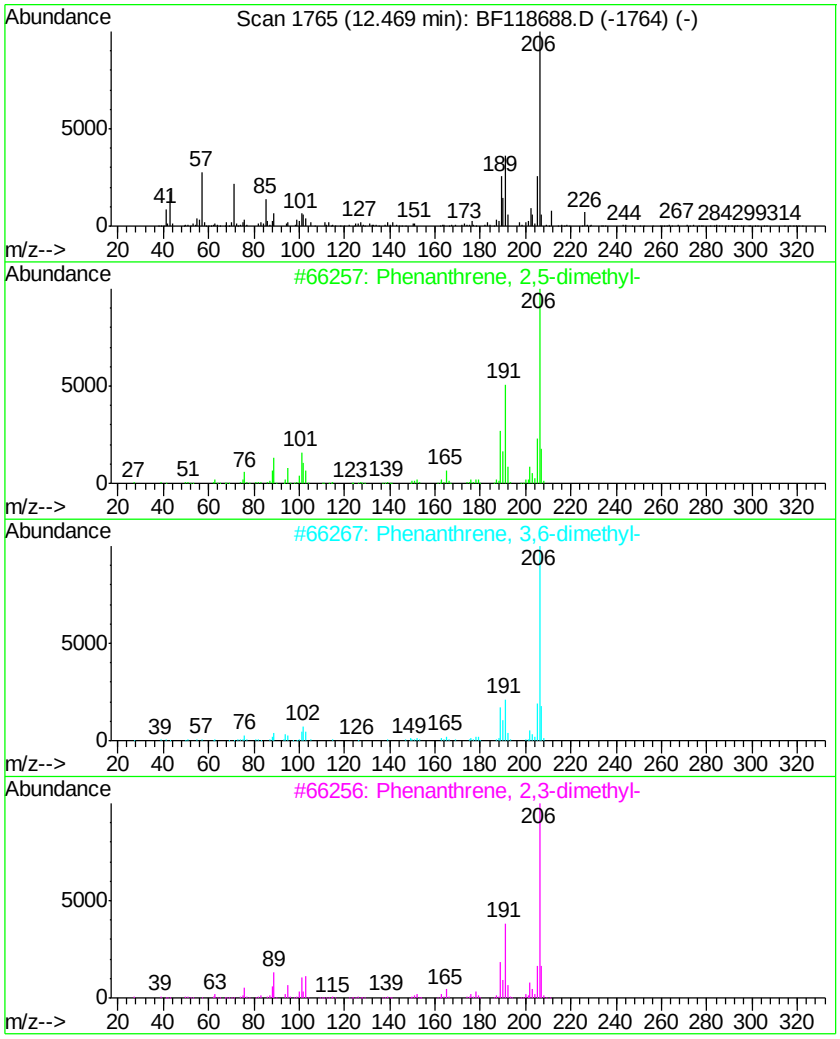
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

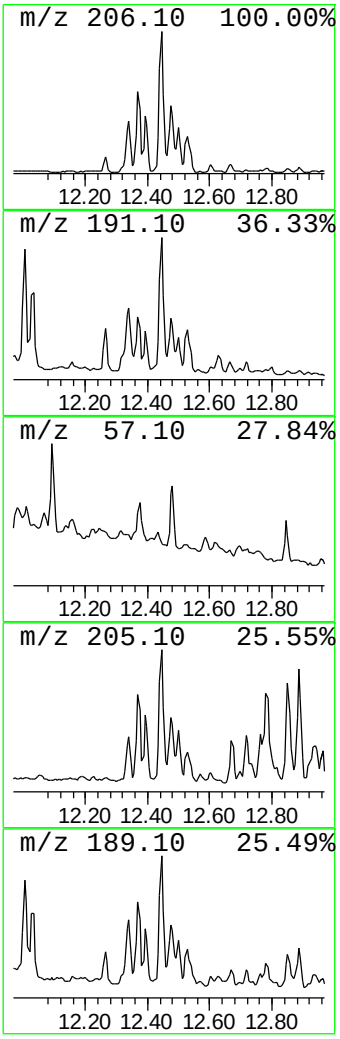
**********

Peak Number 19 Phenanthrene, 2,7-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.47 | 15.72 ng | 1308250 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 64 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 64 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 58 |
| 4 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 52 |
| 5 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 49 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

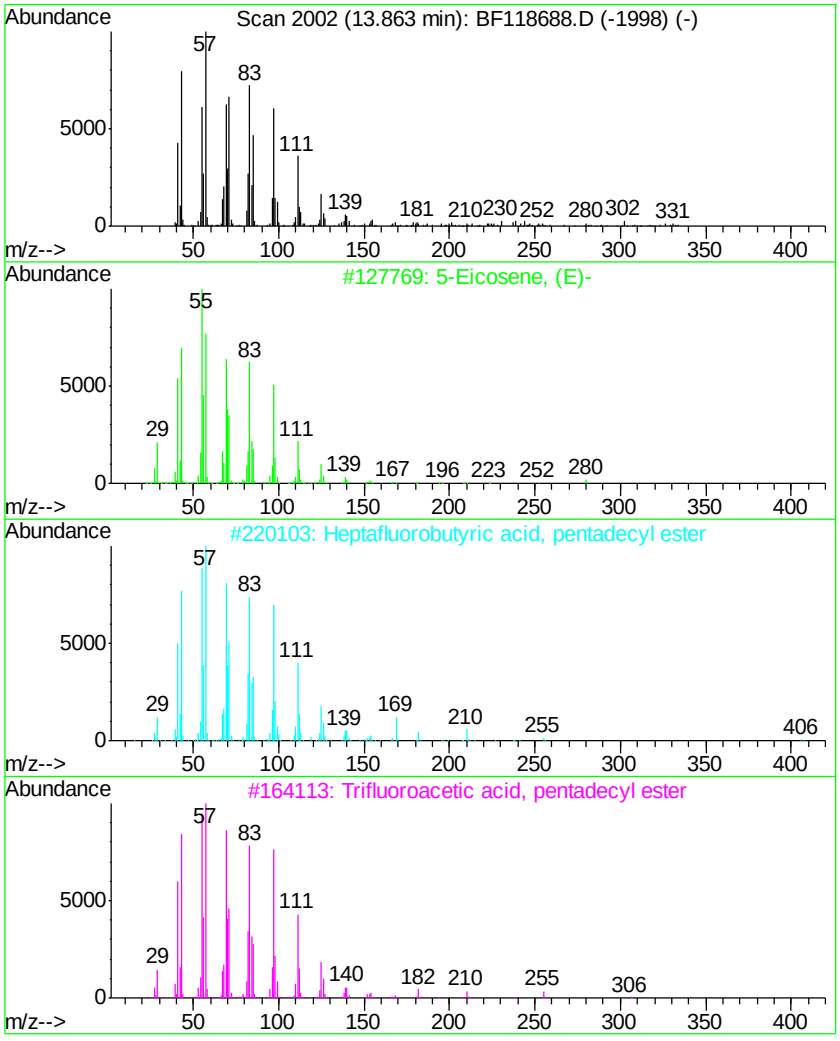
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

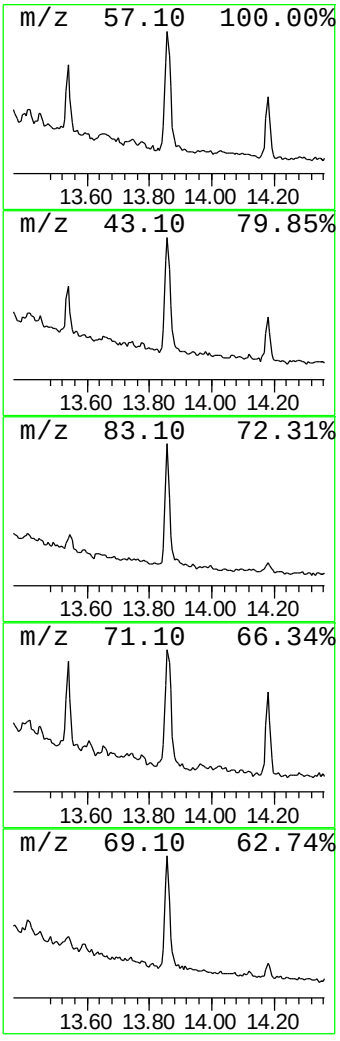
**********

Peak Number 20 Heptafluorobutyric acid, pe... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 11.72 ng | 970395 | Chrysene-d12 | 14.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 98 |
| 2 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 3 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 94 |
| 4 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 93 |
| 5 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012420\
Data File : BF118688.D
Acq On : 24 Jan 2020 16:24
Operator : CG/JU
Sample : L1237-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PATERSON-UST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 2.14 | 20.7 | ng | 1601860 | 1 | 6.86 | 1549440 | 20.0 |
| unknown8.45 | 8.45 | 11.3 | ng | 2029190 | 2 | 8.15 | 3587030 | 20.0 |
| (DEL) Alkane: Str... | 9.32 | 21.8 | ng | 5460040 | 3 | 9.91 | 4999610 | 20.0 |
| Decahydro-4,4,8,9... | 9.83 | 17.4 | ng | 4359860 | 3 | 9.91 | 4999610 | 20.0 |
| Naphthalene, 2,3,... | 10.12 | 13.8 | ng | 3440650 | 3 | 9.91 | 4999610 | 20.0 |
| Naphthalene, 1,6,... | 10.23 | 13.7 | ng | 3432990 | 3 | 9.91 | 4999610 | 20.0 |
| Naphthalene, 1,4,... | 10.26 | 11.4 | ng | 2843350 | 3 | 9.91 | 4999610 | 20.0 |
| Magnesium, bis(2,... | 10.33 | 21.4 | ng | 5352570 | 3 | 9.91 | 4999610 | 20.0 |
| Pentadecane, 2,6,... | 10.84 | 97.6 | ng | 8121730 | 4 | 11.40 | 1664240 | 20.0 |
| Naphthalene, 1,2,... | 10.90 | 29.2 | ng | 2426710 | 4 | 11.40 | 1664240 | 20.0 |
| 4,4'-Dimethylbiph... | 11.04 | 39.7 | ng | 3303820 | 4 | 11.40 | 1664240 | 20.0 |
| Benzene, 1-methyl... | 11.20 | 17.6 | ng | 1467100 | 4 | 11.40 | 1664240 | 20.0 |
| Bacchotricuneatin c | 11.30 | 52.2 | ng | 4346270 | 4 | 11.40 | 1664240 | 20.0 |
| Phenanthrene, 1-m... | 11.90 | 12.1 | ng | 1004980 | 4 | 11.40 | 1664240 | 20.0 |
| Phenanthrene, 2-m... | 11.92 | 38.2 | ng | 3175630 | 4 | 11.40 | 1664240 | 20.0 |
| Phenanthrene, 3,6... | 12.37 | 11.9 | ng | 988153 | 4 | 11.40 | 1664240 | 20.0 |
| Phenanthrene, 2,5... | 12.45 | 23.4 | ng | 1947610 | 4 | 11.40 | 1664240 | 20.0 |
| Phenanthrene, 2,7... | 12.47 | 15.7 | ng | 1308250 | 4 | 11.40 | 1664240 | 20.0 |
| Heptafluorobutyri... | 13.86 | 11.7 | ng | 970395 | 5 | 14.02 | 1655930 | 20.0 |