**Compliance data for 15.517(c)**

The radiated emissions above 960 MHz from the transmitter shall comply with the AVG limits in Table 5 when measured using a **resolution bandwidth of 1 MHz**. The following are the worst case emissions with the receiving antenna in both horizontal and vertical polarities.

**Table 1. Radiated Emissions above 960 MHz, CFR 15.517 (c), 15.521(g)**

| Frequency Range (MHz) | EIRP AVG Limit (dBm) | Field Strength AVG Limit at 3 meters (dBuV/m) |
|---|---|---|
| 960 -1610 | -75.3 | 19.9 |
| 1610 – 1990 | -53.3 | 41.9 |
| 1990 – 3100 | -51.3 | 43.9 |
| 3100 - 10600 | -41.3 | 53.9 |
| Above 10600 | -51.3 | 43.9 |

The worst-case radiated emission for the EUT in the range above 960 MHz was 1.0 dB below the limit at 2716.00 MHz All other radiated emissions were at least 4.6 dB below the CFR 15.509 limits. This data can be found in the table below.

**Table 2. Radiated Emissions from Transmitter Test Data Above 960 MHz**

| **Above 960 MHz** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Test:** Radiated Emissions | | | | **Client:** Sanitag Technologies Corporation | | | |
| **Project:** 17-0275 | | | | **Model:** AT-004-H | | | |
| **Frequency (MHz)** | **Test Data (dBuv)** | **AF+CA-AMP (dB/m)** | **Results (dBuV/m)** | **AVG Limits (dBuV/m)** | **Antenna Distance/ Polarization** | **Margin (dB)** | **Detector PK, or AVG** |
| 1009.00 | 46.78 | -22.09 | 24.69 | 39.9* | 1.0m./HORZ | 15.2 | **PK** |
| 1009.00 | 46.78 | -39.79~ | 6.99 | 19.9 | 1.0m./HORZ | 12.9 | **PK** |
| 5086.25 | 56.14 | -7.59 | 48.55 | 53.9 | 1.0m./HORZ | 5.3 | **PK** |
| 16446.00 | 56.70 | -2.87 | 53.83 | 63.9* | 1.0m./HORZ | 10.1 | **PK** |
| 16446.00 | 56.70 | -20.57~ | 36.13 | 43.9 | 1.0m./HORZ | 7.8 | **PK** |

Note 1: (*)= Peak Limit applied
Note 2: (~)=Duty cycle factor applied to Peak value compared to AVG limit
Note 3: measurements made at 1 meter are extrapolated back to 3 meter using an inverse extrapolation factor of -9.5 dB.
Note 4: Preamplifer used for making measurements. The Preamplifer is rated for 30 dB of gain.

Sample Calculation at 1009.00 MHz:

| | | |
|---|---|---|
| Magnitude of Measured Frequency | 46.78 | dBuV |
| +Antenna Factor + Cable Loss+ Amplifier Gain | -22.09 | dB/m |
| Corrected Result | 24.69 | dBuV/m |

Test Date: August 19, 2017
Tested by
Signature: _____ Name: George Yang

Preamp factors:

Preamp Model: 8449B

Preamp Serial No.:

3008A00480

| (MHz) | AMPLITUDE |
|---|---|
| 950.0 | -37.8 |
| 955.4 | -37.7 |
| 960.8 | -37.7 |
| 966.2 | -37.8 |
| 971.7 | -37.6 |
| 977.1 | -37.7 |
| 982.7 | -37.7 |
| 988.2 | -37.7 |
| 993.8 | -37.8 |
| 999.4 | -37.8 |
| 1005.1 | -37.8 |
| 1010.8 | -37.8 |
| 1016.5 | -37.8 |
| 1022.2 | -37.8 |
| 1028.0 | -37.8 |
| 1033.8 | -37.8 |
| 1039.6 | -37.7 |
| 1045.5 | -37.7 |
| 1051.4 | -37.7 |
| 1057.4 | -37.6 |
| 1063.3 | -37.6 |
| 1069.3 | -37.7 |
| 1075.4 | -37.8 |
| 1081.5 | -37.7 |
| 1087.6 | -37.8 |
| 1093.7 | -37.7 |
| 1099.9 | -37.7 |
| 1106.1 | -37.8 |

| | |
|---|---|
| 1112.4 | -37.8 |
| 1118.7 | -37.7 |
| 1125.0 | -37.7 |
| 1131.3 | -37.6 |
| 1137.7 | -37.6 |
| 1144.2 | -37.5 |
| 1150.6 | -37.5 |
| 1157.1 | -37.4 |
| 1163.7 | -37.5 |
| 1170.2 | -37.5 |
| 1176.9 | -37.5 |
| 1183.5 | -37.5 |
| 1190.2 | -37.5 |
| 1196.9 | -37.6 |
| 1203.7 | -37.5 |
| 1210.5 | -37.5 |
| 1217.3 | -37.5 |
| 1224.2 | -37.4 |
| 1231.1 | -37.2 |
| 1238.1 | -37.1 |
| 1245.1 | -37.1 |
| 1252.1 | -37.0 |
| 1259.2 | -37.0 |
| 1266.3 | -37.0 |
| 1273.5 | -37.0 |
| 1280.7 | -37.1 |
| 1287.9 | -37.1 |
| 1295.2 | -37.1 |
| 1302.5 | -37.1 |
| 1309.9 | -37.1 |
| 1317.3 | -37.0 |
| 1324.7 | -36.9 |
| 1332.2 | -36.8 |
| 1339.7 | -36.7 |
| 1347.3 | -36.7 |
| 1354.9 | -36.6 |
| 1362.6 | -36.6 |
| 1370.3 | -36.5 |
| 1378.0 | -36.6 |
| 1385.8 | -36.6 |
| 1393.6 | -36.5 |
| 1401.5 | -36.7 |
| 1409.4 | -36.7 |

| | |
|---|---|
| 1417.4 | -36.6 |
| 1425.4 | -36.5 |
| 1433.5 | -36.5 |
| 1441.6 | -36.5 |
| 1449.7 | -36.5 |
| 1457.9 | -36.4 |
| 1466.1 | -36.4 |
| 1474.4 | -36.4 |
| 1482.8 | -36.4 |
| 1491.1 | -36.3 |
| 1499.6 | -36.2 |
| 1508.0 | -36.2 |
| 1516.6 | -36.2 |
| 1525.1 | -36.3 |
| 1533.7 | -36.2 |
| 1542.4 | -36.2 |
| 1551.1 | -36.2 |
| 1559.9 | -36.3 |
| 1568.7 | -36.2 |
| 1577.6 | -36.2 |
| 1586.5 | -36.2 |
| 1595.5 | -36.2 |
| 1604.5 | -36.1 |
| 1613.5 | -36.1 |
| 1622.7 | -36.1 |
| 1631.8 | -36.1 |
| 1641.1 | -36.1 |
| 1650.3 | -36.1 |
| 1659.7 | -36.1 |
| 1669.0 | -36.1 |
| 1678.5 | -36.1 |
| 1688.0 | -36.1 |
| 1697.5 | -36.1 |
| 1707.1 | -36.0 |
| 1716.7 | -36.1 |
| 1726.4 | -36.0 |
| 1736.2 | -36.1 |
| 1746.0 | -36.0 |
| 1755.9 | -36.0 |
| 1765.8 | -36.0 |
| 1775.8 | -36.0 |
| 1785.8 | -36.0 |
| 1795.9 | -36.0 |

| | |
|---|---|
| 1806.0 | -35.9 |
| 1816.3 | -36.0 |
| 1826.5 | -36.0 |
| 1836.8 | -36.0 |
| 1847.2 | -35.9 |
| 1857.7 | -35.9 |
| 1868.2 | -35.9 |
| 1878.7 | -35.9 |
| 1889.3 | -35.9 |
| 1900.0 | -35.8 |
| 1910.7 | -35.8 |
| 1921.5 | -35.9 |
| 1932.4 | -35.9 |
| 1943.3 | -36.0 |
| 1954.3 | -35.9 |
| 1965.4 | -35.9 |
| 1976.5 | -35.9 |
| 1987.6 | -35.8 |
| 1998.9 | -35.7 |
| 2010.2 | -35.8 |
| 2021.5 | -35.8 |
| 2032.9 | -35.8 |
| 2044.4 | -35.9 |
| 2056.0 | -35.8 |
| 2067.6 | -35.9 |
| 2079.3 | -35.8 |
| 2091.0 | -35.9 |
| 2102.9 | -36.0 |
| 2114.7 | -35.9 |
| 2126.7 | -35.9 |
| 2138.7 | -36.0 |
| 2150.8 | -36.0 |
| 2162.9 | -36.0 |
| 2175.2 | -35.9 |
| 2187.5 | -36.0 |
| 2199.8 | -36.1 |
| 2212.3 | -36.3 |
| 2224.8 | -36.4 |
| 2237.3 | -36.5 |
| 2250.0 | -36.6 |
| 2262.7 | -36.6 |
| 2275.5 | -36.6 |
| 2288.3 | -36.6 |

| | |
|---|---|
| 2301.3 | -36.7 |
| 2314.3 | -36.8 |
| 2327.4 | -36.9 |
| 2340.5 | -37.1 |
| 2353.7 | -37.3 |
| 2367.0 | -37.3 |
| 2380.4 | -37.1 |
| 2393.9 | -37.0 |
| 2407.4 | -36.8 |
| 2421.0 | -36.6 |
| 2434.7 | -36.6 |
| 2448.4 | -36.5 |
| 2462.3 | -36.4 |
| 2476.2 | -36.3 |
| 2490.2 | -36.2 |
| 2504.3 | -36.0 |
| 2518.4 | -35.9 |
| 2532.6 | -35.8 |
| 2547.0 | -35.7 |
| 2561.3 | -35.7 |
| 2575.8 | -35.7 |
| 2590.4 | -35.7 |
| 2605.0 | -35.6 |
| 2619.7 | -35.5 |
| 2634.5 | -35.4 |
| 2649.4 | -35.4 |
| 2664.4 | -35.3 |
| 2679.5 | -35.2 |
| 2694.6 | -35.2 |
| 2709.8 | -35.2 |
| 2725.1 | -35.2 |
| 2740.6 | -35.2 |
| 2756.0 | -35.2 |
| 2771.6 | -35.1 |
| 2787.3 | -35.0 |
| 2803.0 | -34.9 |
| 2818.9 | -35.0 |
| 2834.8 | -35.0 |
| 2850.8 | -35.1 |
| 2866.9 | -35.2 |
| 2883.1 | -35.1 |
| 2899.4 | -35.0 |
| 2915.8 | -34.7 |

| | |
|---|---|
| 2932.3 | -34.7 |
| 2948.9 | -34.8 |
| 2965.5 | -34.9 |
| 2982.3 | -35.1 |
| 2999.1 | -35.1 |
| 3016.1 | -35.0 |
| 3033.1 | -34.8 |
| 3050.3 | -34.7 |
| 3067.5 | -34.7 |
| 3084.8 | -34.8 |
| 3102.3 | -34.9 |
| 3119.8 | -35.0 |
| 3137.4 | -35.0 |
| 3155.2 | -34.8 |
| 3173.0 | -34.7 |
| 3190.9 | -34.7 |
| 3209.0 | -34.8 |
| 3227.1 | -34.9 |
| 3245.3 | -34.9 |
| 3263.7 | -34.8 |
| 3282.1 | -34.7 |
| 3300.7 | -34.6 |
| 3319.3 | -34.7 |
| 3338.1 | -34.7 |
| 3356.9 | -34.7 |
| 3375.9 | -34.7 |
| 3395.0 | -34.4 |
| 3414.2 | -34.4 |
| 3433.5 | -34.4 |
| 3452.9 | -34.4 |
| 3472.4 | -34.6 |
| 3492.0 | -34.4 |
| 3511.8 | -34.3 |
| 3531.6 | -34.2 |
| 3551.6 | -34.1 |
| 3571.6 | -34.3 |
| 3591.8 | -34.3 |
| 3612.1 | -34.2 |
| 3632.5 | -34.1 |
| 3653.1 | -34.1 |
| 3673.7 | -34.1 |
| 3694.5 | -34.2 |
| 3715.3 | -34.2 |

| | |
|---|---|
| 3736.3 | -34.0 |
| 3757.4 | -34.0 |
| 3778.7 | -34.1 |
| 3800.0 | -34.2 |
| 3821.5 | -34.1 |
| 3843.1 | -34.0 |
| 3864.8 | -34.0 |
| 3886.7 | -34.0 |
| 3908.6 | -34.2 |
| 3930.7 | -34.1 |
| 3952.9 | -34.0 |
| 3975.3 | -34.0 |
| 3997.7 | -33.9 |
| 4020.3 | -34.0 |
| 4043.1 | -33.9 |
| 4065.9 | -33.8 |
| 4088.9 | -33.9 |
| 4112.0 | -34.0 |
| 4135.2 | -33.9 |
| 4158.6 | -33.7 |
| 4182.1 | -33.7 |
| 4205.7 | -33.7 |
| 4229.5 | -33.8 |
| 4253.4 | -33.7 |
| 4277.4 | -33.5 |
| 4301.6 | -33.6 |
| 4325.9 | -33.6 |
| 4350.4 | -33.6 |
| 4375.0 | -33.5 |
| 4399.7 | -33.4 |
| 4424.5 | -33.6 |
| 4449.5 | -33.6 |
| 4474.7 | -33.6 |
| 4500.0 | -33.4 |
| 4525.4 | -33.3 |
| 4551.0 | -33.4 |
| 4576.7 | -33.6 |
| 4602.6 | -33.4 |
| 4628.6 | -33.3 |
| 4654.7 | -33.3 |
| 4681.0 | -33.4 |
| 4707.5 | -33.4 |
| 4734.1 | -33.1 |

| | |
|---|---|
| 4760.9 | -33.1 |
| 4787.8 | -33.1 |
| 4814.8 | -33.0 |
| 4842.0 | -32.9 |
| 4869.4 | -32.8 |
| 4896.9 | -32.8 |
| 4924.6 | -32.7 |
| 4952.4 | -32.7 |
| 4980.4 | -32.6 |
| 5008.5 | -32.6 |
| 5036.8 | -32.6 |
| 5065.3 | -32.6 |
| 5093.9 | -32.6 |
| 5122.7 | -32.6 |
| 5151.7 | -32.5 |
| 5180.8 | -32.6 |
| 5210.1 | -32.6 |
| 5239.5 | -32.7 |
| 5269.1 | -32.6 |
| 5298.9 | -32.6 |
| 5328.8 | -32.8 |
| 5359.0 | -32.7 |
| 5389.2 | -32.7 |
| 5419.7 | -32.9 |
| 5450.3 | -32.9 |
| 5481.1 | -32.8 |
| 5512.1 | -32.9 |
| 5543.3 | -33.0 |
| 5574.6 | -32.9 |
| 5606.1 | -32.9 |
| 5637.8 | -33.0 |
| 5669.6 | -33.0 |
| 5701.7 | -32.9 |
| 5733.9 | -33.0 |
| 5766.3 | -33.0 |
| 5798.9 | -33.0 |
| 5831.7 | -33.2 |
| 5864.6 | -33.1 |
| 5897.7 | -33.1 |
| 5931.1 | -33.2 |
| 5964.6 | -33.1 |
| 5998.3 | -33.3 |
| 6032.2 | -33.3 |

| | |
|---|---|
| 6066.3 | -33.2 |
| 6100.6 | -33.3 |
| 6135.1 | -33.4 |
| 6169.7 | -33.2 |
| 6204.6 | -33.4 |
| 6239.7 | -33.4 |
| 6274.9 | -33.1 |
| 6310.4 | -33.4 |
| 6346.0 | -33.3 |
| 6381.9 | -33.1 |
| 6418.0 | -33.4 |
| 6454.2 | -33.3 |
| 6490.7 | -33.2 |
| 6527.4 | -33.3 |
| 6564.3 | -33.3 |
| 6601.4 | -33.3 |
| 6638.7 | -33.4 |
| 6676.2 | -33.3 |
| 6713.9 | -33.4 |
| 6751.9 | -33.4 |
| 6790.0 | -33.4 |
| 6828.4 | -33.4 |
| 6867.0 | -33.5 |
| 6905.8 | -33.4 |
| 6944.8 | -33.5 |
| 6984.1 | -33.4 |
| 7023.5 | -33.3 |
| 7063.2 | -33.5 |
| 7103.2 | -33.2 |
| 7143.3 | -33.4 |
| 7183.7 | -33.4 |
| 7224.3 | -33.1 |
| 7265.1 | -33.4 |
| 7306.1 | -33.3 |
| 7347.4 | -33.2 |
| 7389.0 | -33.4 |
| 7430.7 | -33.3 |
| 7472.7 | -33.4 |
| 7514.9 | -33.3 |
| 7557.4 | -33.5 |
| 7600.1 | -33.4 |
| 7643.1 | -33.5 |
| 7686.3 | -33.5 |

| | |
|---|---|
| 7729.7 | -33.4 |
| 7773.4 | -33.5 |
| 7817.3 | -33.4 |
| 7861.5 | -33.4 |
| 7905.9 | -33.4 |
| 7950.6 | -33.4 |
| 7995.5 | -33.3 |
| 8040.7 | -33.3 |
| 8086.1 | -33.4 |
| 8131.8 | -33.3 |
| 8177.8 | -33.4 |
| 8224.0 | -33.3 |
| 8270.5 | -33.3 |
| 8317.2 | -33.5 |
| 8364.2 | -33.3 |
| 8411.5 | -33.4 |
| 8459.0 | -33.3 |
| 8506.8 | -33.4 |
| 8554.9 | -33.2 |
| 8603.3 | -33.2 |
| 8651.9 | -33.2 |
| 8700.8 | -33.1 |
| 8749.9 | -33.1 |
| 8799.4 | -33.2 |
| 8849.1 | -32.7 |
| 8899.1 | -33.2 |
| 8949.4 | -32.7 |
| 9000.0 | -32.9 |
| 9000 | -33 |
| 10000 | -35.7 |
| 12000 | -33.6 |
| 14000 | -31.3 |
| 15000 | -32 |
| 16000 | -32.5 |
| 17000 | -31.3 |
| 18000 | -30.8 |
| 19000 | -28.8 |
| 20000 | -29.6 |