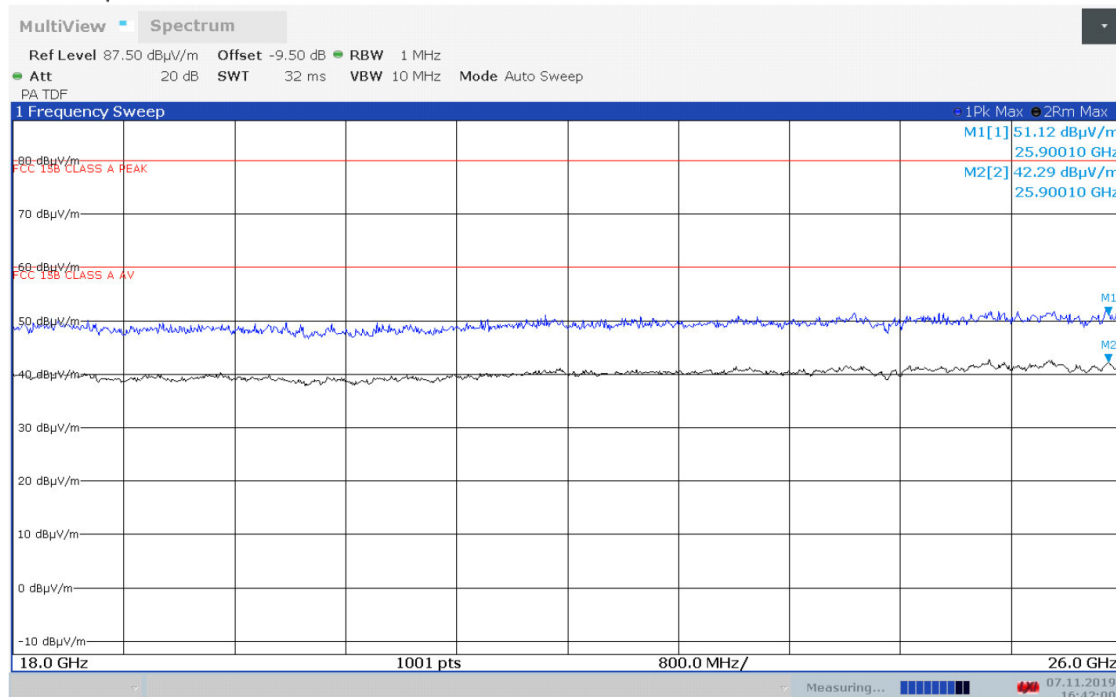


Prepared by: Dr Vitas Anderson (Two Fields Consulting)
Date: 16 June 2022

FCC ID: 2ATQM1000-0375 (Configuration 1, Figure/Page 18a, Class A device)
Frequency span: 18 GHz to 26 GHz
RBW: 0.001 GHz, distance: 3 m
Peak-to-average correction: N/A
No. of sample points: 8,000
Cumulative S level: $2.173\text{E-}07 \text{ W/m}^2$
Device radiated power: 0.0150 mW

EMC test spectral plot

18-26GHz, Vertical Polarization:



Plot of extracted data from EMC test spectral plot

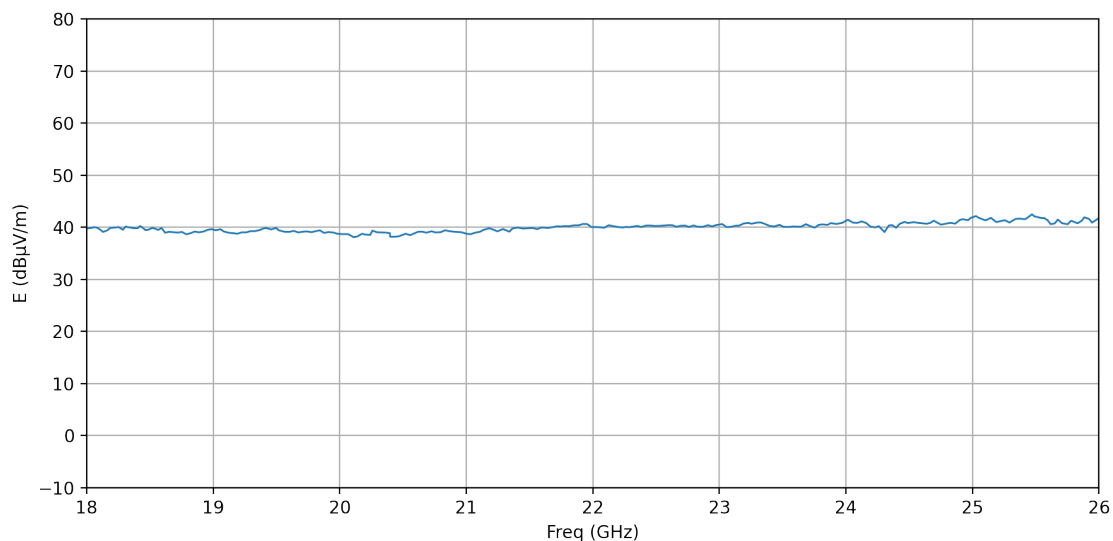


Table of extracted data from EMC test spectral plot

| Freq (GHz) | E (dBμV/m) | E (V/m rms) | S (W/m²) |
|------------|------------|-------------|-----------|
| 18.004 | 39.78 | 3.978E+01 | 2.521E-11 |
| 18.04 | 39.88 | 3.988E+01 | 2.581E-11 |
| 18.06 | 40.04 | 4.004E+01 | 2.675E-11 |
| 18.085 | 39.88 | 3.988E+01 | 2.581E-11 |
| 18.111 | 39.47 | 3.947E+01 | 2.347E-11 |
| 18.129 | 39.11 | 3.911E+01 | 2.159E-11 |
| 18.163 | 39.42 | 3.942E+01 | 2.319E-11 |
| 18.187 | 39.88 | 3.988E+01 | 2.581E-11 |
| 18.217 | 39.93 | 3.993E+01 | 2.612E-11 |
| 18.253 | 40.04 | 4.004E+01 | 2.675E-11 |
| 18.287 | 39.52 | 3.952E+01 | 2.375E-11 |
| 18.307 | 40.14 | 4.014E+01 | 2.740E-11 |
| 18.335 | 39.99 | 3.999E+01 | 2.644E-11 |
| 18.372 | 39.83 | 3.983E+01 | 2.551E-11 |
| 18.402 | 39.83 | 3.983E+01 | 2.551E-11 |
| 18.422 | 40.24 | 4.024E+01 | 2.806E-11 |
| 18.442 | 39.93 | 3.993E+01 | 2.612E-11 |
| 18.464 | 39.47 | 3.947E+01 | 2.347E-11 |
| 18.486 | 39.52 | 3.952E+01 | 2.375E-11 |
| 18.521 | 39.90 | 3.990E+01 | 2.593E-11 |
| 18.566 | 39.50 | 3.950E+01 | 2.363E-11 |
| 18.591 | 39.86 | 3.986E+01 | 2.571E-11 |
| 18.619 | 38.97 | 3.897E+01 | 2.090E-11 |
| 18.651 | 39.13 | 3.913E+01 | 2.171E-11 |
| 18.683 | 39.06 | 3.906E+01 | 2.135E-11 |
| 18.718 | 38.98 | 3.898E+01 | 2.099E-11 |
| 18.753 | 39.10 | 3.910E+01 | 2.157E-11 |
| 18.787 | 38.66 | 3.866E+01 | 1.948E-11 |
| 18.821 | 38.87 | 3.887E+01 | 2.047E-11 |
| 18.854 | 39.18 | 3.918E+01 | 2.196E-11 |
| 18.888 | 39.03 | 3.903E+01 | 2.123E-11 |
| 18.923 | 39.18 | 3.918E+01 | 2.196E-11 |
| 18.957 | 39.51 | 3.951E+01 | 2.371E-11 |
| 18.987 | 39.64 | 3.964E+01 | 2.444E-11 |
| 19.022 | 39.42 | 3.942E+01 | 2.323E-11 |
| 19.057 | 39.63 | 3.963E+01 | 2.437E-11 |
| 19.083 | 39.20 | 3.920E+01 | 2.208E-11 |
| 19.123 | 38.94 | 3.894E+01 | 2.078E-11 |
| 19.16 | 38.87 | 3.887E+01 | 2.043E-11 |
| 19.19 | 38.76 | 3.876E+01 | 1.995E-11 |
| 19.227 | 39.03 | 3.903E+01 | 2.123E-11 |
| 19.262 | 39.02 | 3.902E+01 | 2.117E-11 |
| 19.292 | 39.25 | 3.925E+01 | 2.231E-11 |
| 19.328 | 39.26 | 3.926E+01 | 2.240E-11 |
| 19.362 | 39.42 | 3.942E+01 | 2.323E-11 |
| 19.395 | 39.75 | 3.975E+01 | 2.502E-11 |

Calculate device radiated power from EMC test data

| | | | |
|--------|-------|-----------|-----------|
| 19.416 | 39.86 | 3.986E+01 | 2.571E-11 |
| 19.458 | 39.59 | 3.959E+01 | 2.413E-11 |
| 19.498 | 39.88 | 3.988E+01 | 2.578E-11 |
| 19.518 | 39.42 | 3.942E+01 | 2.323E-11 |
| 19.566 | 39.13 | 3.913E+01 | 2.171E-11 |
| 19.605 | 39.13 | 3.913E+01 | 2.171E-11 |
| 19.635 | 39.31 | 3.931E+01 | 2.265E-11 |
| 19.673 | 39.01 | 3.901E+01 | 2.111E-11 |
| 19.707 | 39.15 | 3.915E+01 | 2.179E-11 |
| 19.741 | 39.20 | 3.920E+01 | 2.208E-11 |
| 19.778 | 39.06 | 3.906E+01 | 2.135E-11 |
| 19.803 | 39.22 | 3.922E+01 | 2.218E-11 |
| 19.842 | 39.41 | 3.941E+01 | 2.316E-11 |
| 19.876 | 38.92 | 3.892E+01 | 2.071E-11 |
| 19.91 | 39.08 | 3.908E+01 | 2.147E-11 |
| 19.95 | 39.00 | 3.900E+01 | 2.105E-11 |
| 19.981 | 38.76 | 3.876E+01 | 1.995E-11 |
| 20.02 | 38.69 | 3.869E+01 | 1.962E-11 |
| 20.066 | 38.69 | 3.869E+01 | 1.962E-11 |
| 20.11 | 38.10 | 3.810E+01 | 1.714E-11 |
| 20.141 | 38.25 | 3.825E+01 | 1.773E-11 |
| 20.176 | 38.76 | 3.876E+01 | 1.995E-11 |
| 20.205 | 38.59 | 3.859E+01 | 1.918E-11 |
| 20.241 | 38.54 | 3.854E+01 | 1.897E-11 |
| 20.258 | 39.36 | 3.936E+01 | 2.287E-11 |
| 20.294 | 39.04 | 3.904E+01 | 2.129E-11 |
| 20.331 | 39.01 | 3.901E+01 | 2.111E-11 |
| 20.36 | 38.98 | 3.898E+01 | 2.099E-11 |
| 20.396 | 38.87 | 3.887E+01 | 2.047E-11 |
| 20.399 | 38.18 | 3.818E+01 | 1.743E-11 |
| 20.447 | 38.20 | 3.820E+01 | 1.753E-11 |
| 20.47 | 38.29 | 3.829E+01 | 1.788E-11 |
| 20.52 | 38.76 | 3.876E+01 | 1.995E-11 |
| 20.556 | 38.49 | 3.849E+01 | 1.873E-11 |
| 20.618 | 39.13 | 3.913E+01 | 2.171E-11 |
| 20.651 | 39.16 | 3.916E+01 | 2.186E-11 |
| 20.684 | 38.97 | 3.897E+01 | 2.091E-11 |
| 20.725 | 39.23 | 3.923E+01 | 2.223E-11 |
| 20.756 | 39.01 | 3.901E+01 | 2.113E-11 |
| 20.797 | 39.06 | 3.906E+01 | 2.135E-11 |
| 20.832 | 39.42 | 3.942E+01 | 2.323E-11 |
| 20.865 | 39.26 | 3.926E+01 | 2.236E-11 |
| 20.904 | 39.14 | 3.914E+01 | 2.177E-11 |
| 20.961 | 39.06 | 3.906E+01 | 2.135E-11 |
| 20.998 | 38.79 | 3.879E+01 | 2.007E-11 |
| 21.032 | 38.67 | 3.867E+01 | 1.951E-11 |
| 21.074 | 38.98 | 3.898E+01 | 2.099E-11 |
| 21.108 | 39.13 | 3.913E+01 | 2.171E-11 |
| 21.135 | 39.50 | 3.950E+01 | 2.363E-11 |

| | | | |
|--------|-------|-----------|-----------|
| 21.182 | 39.82 | 3.982E+01 | 2.542E-11 |
| 21.215 | 39.53 | 3.953E+01 | 2.383E-11 |
| 21.246 | 39.22 | 3.922E+01 | 2.216E-11 |
| 21.29 | 39.66 | 3.966E+01 | 2.454E-11 |
| 21.341 | 39.16 | 3.916E+01 | 2.186E-11 |
| 21.365 | 39.77 | 3.977E+01 | 2.514E-11 |
| 21.408 | 39.95 | 3.995E+01 | 2.624E-11 |
| 21.444 | 39.76 | 3.976E+01 | 2.511E-11 |
| 21.487 | 39.81 | 3.981E+01 | 2.536E-11 |
| 21.525 | 39.86 | 3.986E+01 | 2.571E-11 |
| 21.56 | 39.64 | 3.964E+01 | 2.444E-11 |
| 21.596 | 39.97 | 3.997E+01 | 2.632E-11 |
| 21.644 | 39.86 | 3.986E+01 | 2.571E-11 |
| 21.678 | 40.00 | 4.000E+01 | 2.650E-11 |
| 21.713 | 40.19 | 4.019E+01 | 2.769E-11 |
| 21.749 | 40.16 | 4.016E+01 | 2.751E-11 |
| 21.78 | 40.23 | 4.023E+01 | 2.798E-11 |
| 21.808 | 40.19 | 4.019E+01 | 2.774E-11 |
| 21.854 | 40.38 | 4.038E+01 | 2.894E-11 |
| 21.887 | 40.38 | 4.038E+01 | 2.894E-11 |
| 21.921 | 40.63 | 4.063E+01 | 3.070E-11 |
| 21.957 | 40.61 | 4.061E+01 | 3.054E-11 |
| 21.989 | 40.04 | 4.004E+01 | 2.677E-11 |
| 22.023 | 40.05 | 4.005E+01 | 2.686E-11 |
| 22.053 | 40.01 | 4.001E+01 | 2.659E-11 |
| 22.091 | 39.91 | 3.991E+01 | 2.597E-11 |
| 22.125 | 40.39 | 4.039E+01 | 2.905E-11 |
| 22.158 | 40.24 | 4.024E+01 | 2.804E-11 |
| 22.191 | 40.08 | 4.008E+01 | 2.705E-11 |
| 22.232 | 39.96 | 3.996E+01 | 2.629E-11 |
| 22.266 | 40.08 | 4.008E+01 | 2.705E-11 |
| 22.286 | 40.01 | 4.001E+01 | 2.659E-11 |
| 22.351 | 40.26 | 4.026E+01 | 2.813E-11 |
| 22.382 | 40.06 | 4.006E+01 | 2.686E-11 |
| 22.421 | 40.33 | 4.033E+01 | 2.865E-11 |
| 22.458 | 40.33 | 4.033E+01 | 2.861E-11 |
| 22.492 | 40.25 | 4.025E+01 | 2.807E-11 |
| 22.526 | 40.27 | 4.027E+01 | 2.821E-11 |
| 22.56 | 40.33 | 4.033E+01 | 2.865E-11 |
| 22.594 | 40.40 | 4.040E+01 | 2.910E-11 |
| 22.627 | 40.40 | 4.040E+01 | 2.910E-11 |
| 22.661 | 40.11 | 4.011E+01 | 2.720E-11 |
| 22.695 | 40.29 | 4.029E+01 | 2.837E-11 |
| 22.729 | 40.33 | 4.033E+01 | 2.861E-11 |
| 22.76 | 40.07 | 4.007E+01 | 2.695E-11 |
| 22.797 | 40.36 | 4.036E+01 | 2.880E-11 |
| 22.825 | 40.12 | 4.012E+01 | 2.728E-11 |
| 22.87 | 40.10 | 4.010E+01 | 2.712E-11 |
| 22.91 | 40.40 | 4.040E+01 | 2.910E-11 |

Calculate device radiated power from EMC test data

| | | | |
|--------|-------|-----------|-----------|
| 22.944 | 40.17 | 4.017E+01 | 2.758E-11 |
| 22.975 | 40.42 | 4.042E+01 | 2.923E-11 |
| 23.023 | 40.62 | 4.062E+01 | 3.061E-11 |
| 23.057 | 40.04 | 4.004E+01 | 2.674E-11 |
| 23.091 | 40.08 | 4.008E+01 | 2.705E-11 |
| 23.125 | 40.28 | 4.028E+01 | 2.829E-11 |
| 23.156 | 40.32 | 4.032E+01 | 2.855E-11 |
| 23.192 | 40.72 | 4.072E+01 | 3.131E-11 |
| 23.229 | 40.84 | 4.084E+01 | 3.221E-11 |
| 23.254 | 40.67 | 4.067E+01 | 3.096E-11 |
| 23.297 | 40.91 | 4.091E+01 | 3.268E-11 |
| 23.327 | 40.92 | 4.092E+01 | 3.279E-11 |
| 23.362 | 40.63 | 4.063E+01 | 3.070E-11 |
| 23.397 | 40.27 | 4.027E+01 | 2.821E-11 |
| 23.435 | 40.16 | 4.016E+01 | 2.751E-11 |
| 23.475 | 40.48 | 4.048E+01 | 2.960E-11 |
| 23.506 | 40.11 | 4.011E+01 | 2.720E-11 |
| 23.548 | 40.06 | 4.006E+01 | 2.689E-11 |
| 23.583 | 40.16 | 4.016E+01 | 2.751E-11 |
| 23.616 | 40.12 | 4.012E+01 | 2.728E-11 |
| 23.647 | 40.13 | 4.013E+01 | 2.732E-11 |
| 23.685 | 40.60 | 4.060E+01 | 3.044E-11 |
| 23.718 | 40.22 | 4.022E+01 | 2.790E-11 |
| 23.753 | 39.94 | 3.994E+01 | 2.615E-11 |
| 23.784 | 40.45 | 4.045E+01 | 2.943E-11 |
| 23.814 | 40.56 | 4.056E+01 | 3.019E-11 |
| 23.855 | 40.47 | 4.047E+01 | 2.953E-11 |
| 23.881 | 40.79 | 4.079E+01 | 3.184E-11 |
| 23.927 | 40.63 | 4.063E+01 | 3.070E-11 |
| 23.972 | 40.85 | 4.085E+01 | 3.230E-11 |
| 24.016 | 41.44 | 4.144E+01 | 3.698E-11 |
| 24.057 | 40.89 | 4.089E+01 | 3.257E-11 |
| 24.091 | 40.84 | 4.084E+01 | 3.221E-11 |
| 24.124 | 41.13 | 4.113E+01 | 3.441E-11 |
| 24.161 | 40.82 | 4.082E+01 | 3.202E-11 |
| 24.194 | 40.14 | 4.014E+01 | 2.739E-11 |
| 24.232 | 39.99 | 3.999E+01 | 2.644E-11 |
| 24.26 | 40.21 | 4.021E+01 | 2.786E-11 |
| 24.305 | 39.09 | 3.909E+01 | 2.153E-11 |
| 24.34 | 40.35 | 4.035E+01 | 2.874E-11 |
| 24.367 | 40.41 | 4.041E+01 | 2.918E-11 |
| 24.397 | 39.91 | 3.991E+01 | 2.597E-11 |
| 24.424 | 40.63 | 4.063E+01 | 3.070E-11 |
| 24.465 | 41.04 | 4.104E+01 | 3.369E-11 |
| 24.491 | 40.82 | 4.082E+01 | 3.202E-11 |
| 24.537 | 40.99 | 4.099E+01 | 3.331E-11 |
| 24.559 | 40.89 | 4.089E+01 | 3.257E-11 |
| 24.596 | 40.79 | 4.079E+01 | 3.184E-11 |
| 24.638 | 40.67 | 4.067E+01 | 3.096E-11 |

Calculate device radiated power from EMC test data

| | | | |
|--------|-------|-----------|-----------|
| 24.664 | 40.82 | 4.082E+01 | 3.202E-11 |
| 24.695 | 41.26 | 4.126E+01 | 3.544E-11 |
| 24.751 | 40.51 | 4.051E+01 | 2.985E-11 |
| 24.771 | 40.60 | 4.060E+01 | 3.044E-11 |
| 24.826 | 40.85 | 4.085E+01 | 3.230E-11 |
| 24.864 | 40.70 | 4.070E+01 | 3.114E-11 |
| 24.9 | 41.41 | 4.141E+01 | 3.666E-11 |
| 24.924 | 41.55 | 4.155E+01 | 3.792E-11 |
| 24.965 | 41.37 | 4.137E+01 | 3.635E-11 |
| 24.989 | 41.83 | 4.183E+01 | 4.040E-11 |
| 25.028 | 42.15 | 4.215E+01 | 4.353E-11 |
| 25.054 | 41.77 | 4.177E+01 | 3.989E-11 |
| 25.105 | 41.33 | 4.133E+01 | 3.605E-11 |
| 25.147 | 41.80 | 4.180E+01 | 4.019E-11 |
| 25.189 | 41.00 | 4.100E+01 | 3.341E-11 |
| 25.209 | 41.11 | 4.111E+01 | 3.426E-11 |
| 25.257 | 41.36 | 4.136E+01 | 3.625E-11 |
| 25.293 | 40.91 | 4.091E+01 | 3.268E-11 |
| 25.34 | 41.60 | 4.160E+01 | 3.831E-11 |
| 25.373 | 41.66 | 4.166E+01 | 3.889E-11 |
| 25.418 | 41.55 | 4.155E+01 | 3.792E-11 |
| 25.445 | 42.02 | 4.202E+01 | 4.220E-11 |
| 25.47 | 42.49 | 4.249E+01 | 4.702E-11 |
| 25.491 | 42.09 | 4.209E+01 | 4.292E-11 |
| 25.548 | 41.77 | 4.177E+01 | 3.989E-11 |
| 25.568 | 41.77 | 4.177E+01 | 3.989E-11 |
| 25.594 | 41.37 | 4.137E+01 | 3.635E-11 |
| 25.619 | 40.60 | 4.060E+01 | 3.044E-11 |
| 25.65 | 40.73 | 4.073E+01 | 3.136E-11 |
| 25.675 | 41.48 | 4.148E+01 | 3.728E-11 |
| 25.709 | 40.77 | 4.077E+01 | 3.170E-11 |
| 25.753 | 40.58 | 4.058E+01 | 3.034E-11 |
| 25.781 | 41.26 | 4.126E+01 | 3.544E-11 |
| 25.831 | 40.77 | 4.077E+01 | 3.167E-11 |
| 25.864 | 41.26 | 4.126E+01 | 3.544E-11 |
| 25.884 | 41.92 | 4.192E+01 | 4.126E-11 |
| 25.922 | 41.61 | 4.161E+01 | 3.840E-11 |
| 25.946 | 40.89 | 4.089E+01 | 3.257E-11 |
| 25.993 | 41.64 | 4.164E+01 | 3.873E-11 |