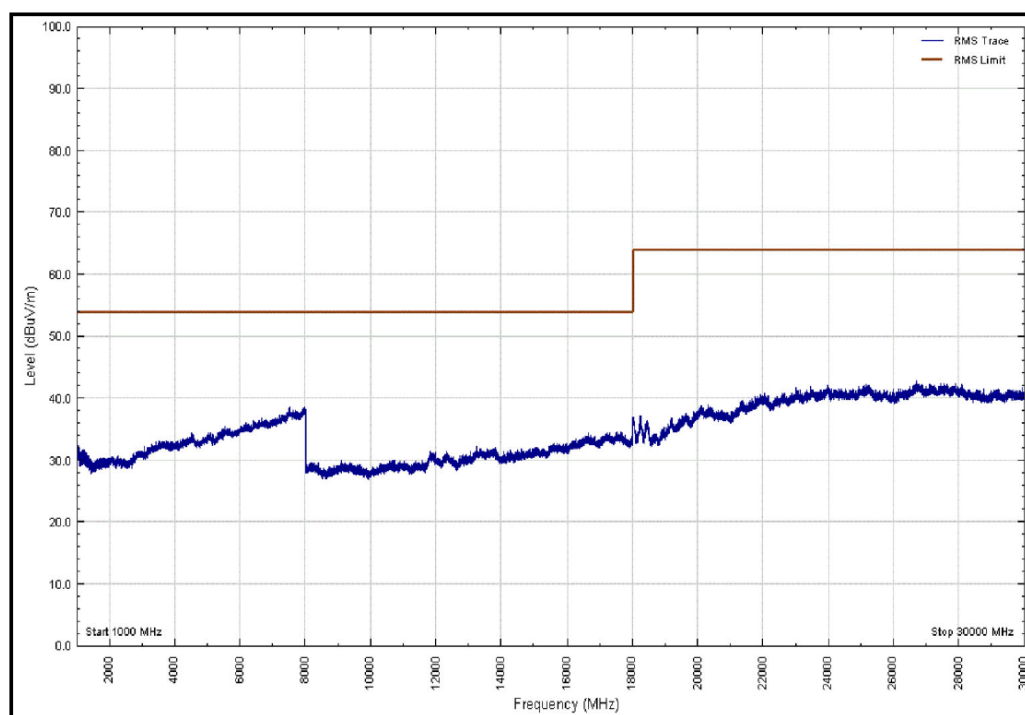


Prepared by: Dr Vitas Anderson (Two Fields Consulting)
Date: 14 June 2022

FCC ID: BCGA2289 (Configuration 1, Figure 17, Class B device)
Frequency span: 1,000 MHz to 18,000 MHz
RBW: 1.0 MHz, distance: 3 m
Peak-to-average correction: N/A
No. of sample points: 17,000
Cumulative S level: $3.540\text{E-}07 \text{ W/m}^2$
Device radiated power: 0.0244 mW

EMC test spectral plot

Frequency Range of Test: 1 GHz to 30 GHz – CISPR Average



Plot of extracted data from EMC test spectral plot

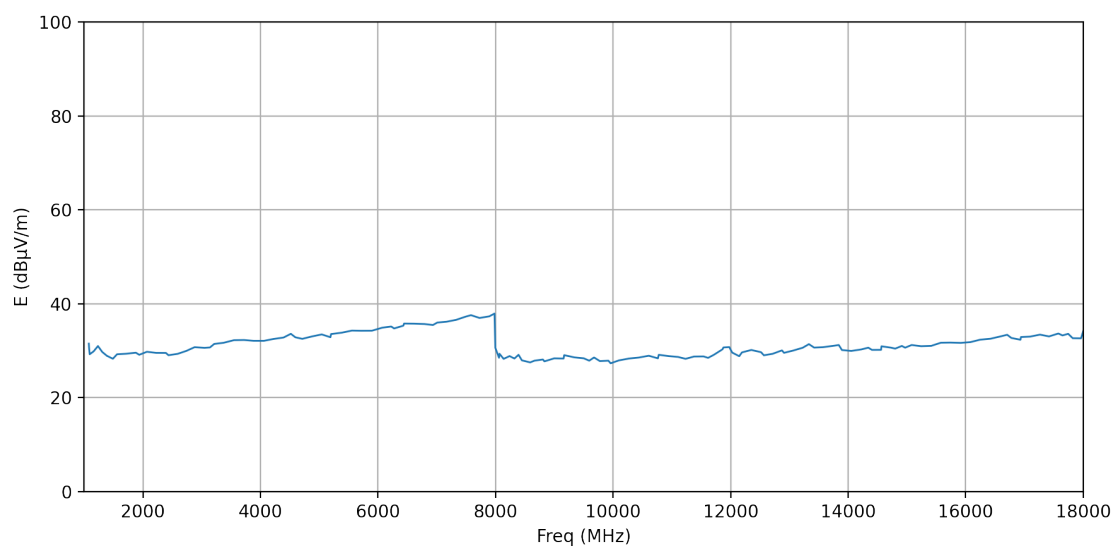


Table of extracted data from EMC test spectral plot

Freq (MHz)	E (dBμV/m)	E (V/m rms)	S (W/m²)
1079	31.51	3.151E+01	3.758E-12
1083	30.69	3.069E+01	3.112E-12
1093	29.24	2.924E+01	2.228E-12
1160	29.86	2.986E+01	2.568E-12
1234	30.99	3.099E+01	3.333E-12
1307	29.73	2.973E+01	2.490E-12
1386	28.91	2.891E+01	2.066E-12
1488	28.29	2.829E+01	1.788E-12
1559	29.24	2.924E+01	2.228E-12
1714	29.35	2.935E+01	2.286E-12
1879	29.58	2.958E+01	2.406E-12
1937	29.13	2.913E+01	2.171E-12
2067	29.77	2.977E+01	2.517E-12
2225	29.54	2.954E+01	2.386E-12
2390	29.53	2.953E+01	2.379E-12
2434	29.04	2.904E+01	2.127E-12
2589	29.33	2.933E+01	2.273E-12
2738	29.96	2.996E+01	2.627E-12
2879	30.75	3.075E+01	3.152E-12
3048	30.61	3.061E+01	3.054E-12
3140	30.69	3.069E+01	3.112E-12
3213	31.45	3.145E+01	3.700E-12
3374	31.69	3.169E+01	3.913E-12
3548	32.24	3.224E+01	4.447E-12
3720	32.28	3.228E+01	4.481E-12
3882	32.11	3.211E+01	4.310E-12
4058	32.10	3.210E+01	4.304E-12
4227	32.51	3.251E+01	4.730E-12
4393	32.81	3.281E+01	5.061E-12
4516	33.60	3.360E+01	6.073E-12
4594	32.85	3.285E+01	5.116E-12
4712	32.53	3.253E+01	4.750E-12
4876	33.04	3.304E+01	5.340E-12
5042	33.47	3.347E+01	5.894E-12
5191	32.87	3.287E+01	5.138E-12
5201	33.55	3.355E+01	6.004E-12
5385	33.84	3.384E+01	6.421E-12
5554	34.28	3.428E+01	7.111E-12
5709	34.25	3.425E+01	7.056E-12
5898	34.26	3.426E+01	7.073E-12
6070	34.90	3.490E+01	8.190E-12
6225	35.15	3.515E+01	8.686E-12
6274	34.74	3.474E+01	7.899E-12
6431	35.33	3.533E+01	9.053E-12
6443	35.78	3.578E+01	1.004E-11
6616	35.76	3.576E+01	9.985E-12

6790	35.68	3.568E+01	9.815E-12
6935	35.47	3.547E+01	9.355E-12
7008	35.99	3.599E+01	1.053E-11
7168	36.18	3.618E+01	1.100E-11
7327	36.56	3.656E+01	1.202E-11
7492	37.26	3.726E+01	1.410E-11
7582	37.57	3.757E+01	1.515E-11
7728	36.97	3.697E+01	1.321E-11
7895	37.32	3.732E+01	1.431E-11
7982	37.92	3.792E+01	1.642E-11
7996	30.62	3.062E+01	3.059E-12
8059	28.50	2.850E+01	1.878E-12
8067	29.35	2.935E+01	2.286E-12
8138	28.26	2.826E+01	1.777E-12
8238	28.85	2.885E+01	2.037E-12
8321	28.34	2.834E+01	1.808E-12
8392	29.13	2.913E+01	2.171E-12
8448	27.95	2.795E+01	1.653E-12
8589	27.51	2.751E+01	1.495E-12
8663	27.88	2.788E+01	1.628E-12
8806	28.13	2.813E+01	1.724E-12
8832	27.73	2.773E+01	1.573E-12
8999	28.37	2.837E+01	1.824E-12
9158	28.33	2.833E+01	1.807E-12
9168	29.06	2.906E+01	2.134E-12
9338	28.59	2.859E+01	1.917E-12
9501	28.38	2.838E+01	1.826E-12
9595	27.88	2.788E+01	1.628E-12
9676	28.56	2.856E+01	1.904E-12
9775	27.79	2.779E+01	1.595E-12
9920	27.87	2.787E+01	1.626E-12
9959	27.32	2.732E+01	1.430E-12
10100	27.94	2.794E+01	1.650E-12
10269	28.33	2.833E+01	1.806E-12
10439	28.55	2.855E+01	1.898E-12
10608	28.93	2.893E+01	2.071E-12
10763	28.38	2.838E+01	1.825E-12
10778	29.13	2.913E+01	2.171E-12
10953	28.84	2.884E+01	2.031E-12
11105	28.68	2.868E+01	1.955E-12
11234	28.27	2.827E+01	1.781E-12
11377	28.76	2.876E+01	1.993E-12
11540	28.78	2.878E+01	2.003E-12
11618	28.48	2.848E+01	1.869E-12
11715	29.13	2.913E+01	2.171E-12
11862	30.29	3.029E+01	2.837E-12
11879	30.69	3.069E+01	3.112E-12
11978	30.77	3.077E+01	3.166E-12
12028	29.59	2.959E+01	2.414E-12

12147	28.83	2.883E+01	2.027E-12
12193	29.64	2.964E+01	2.440E-12
12352	30.16	3.016E+01	2.751E-12
12518	29.68	2.968E+01	2.466E-12
12566	29.02	2.902E+01	2.118E-12
12715	29.34	2.934E+01	2.277E-12
12874	30.07	3.007E+01	2.696E-12
12909	29.55	2.955E+01	2.390E-12
13065	30.03	3.003E+01	2.671E-12
13228	30.63	3.063E+01	3.068E-12
13333	31.40	3.140E+01	3.662E-12
13421	30.67	3.067E+01	3.092E-12
13573	30.75	3.075E+01	3.152E-12
13742	31.03	3.103E+01	3.361E-12
13841	31.21	3.121E+01	3.509E-12
13895	30.14	3.014E+01	2.741E-12
14053	29.96	2.996E+01	2.625E-12
14222	30.27	3.027E+01	2.820E-12
14344	30.65	3.065E+01	3.080E-12
14406	30.17	3.017E+01	2.760E-12
14561	30.18	3.018E+01	2.768E-12
14567	30.94	3.094E+01	3.292E-12
14731	30.65	3.065E+01	3.080E-12
14801	30.45	3.045E+01	2.939E-12
14914	31.01	3.101E+01	3.347E-12
14971	30.64	3.064E+01	3.076E-12
15081	31.21	3.121E+01	3.509E-12
15243	30.96	3.096E+01	3.307E-12
15414	31.03	3.103E+01	3.361E-12
15578	31.70	3.170E+01	3.922E-12
15741	31.73	3.173E+01	3.950E-12
15916	31.67	3.167E+01	3.894E-12
16080	31.83	3.183E+01	4.038E-12
16244	32.34	3.234E+01	4.545E-12
16425	32.56	3.256E+01	4.777E-12
16591	33.04	3.304E+01	5.340E-12
16707	33.39	3.339E+01	5.793E-12
16778	32.72	3.272E+01	4.963E-12
16933	32.33	3.233E+01	4.538E-12
16941	32.91	3.291E+01	5.187E-12
17096	33.00	3.300E+01	5.295E-12
17265	33.42	3.342E+01	5.832E-12
17419	33.04	3.304E+01	5.344E-12
17578	33.66	3.366E+01	6.166E-12
17648	33.25	3.325E+01	5.606E-12
17745	33.60	3.360E+01	6.073E-12
17822	32.66	3.266E+01	4.897E-12
17963	32.64	3.264E+01	4.868E-12
18048	36.11	3.611E+01	1.083E-11

18048	35.31	3.531E+01	9.009E-12
18062	34.49	3.449E+01	7.460E-12
18119	33.45	3.345E+01	5.868E-12
18147	33.04	3.304E+01	5.340E-12
18260	35.38	3.538E+01	9.165E-12
18260	36.72	3.672E+01	1.248E-11
18263	34.22	3.422E+01	7.014E-12
18359	33.23	3.323E+01	5.574E-12
18429	34.19	3.419E+01	6.966E-12
18468	35.40	3.540E+01	9.187E-12
18589	33.44	3.344E+01	5.854E-12
18627	32.74	3.274E+01	4.986E-12
18761	33.34	3.334E+01	5.719E-12
18811	32.46	3.246E+01	4.669E-12
18941	33.77	3.377E+01	6.325E-12
19003	34.43	3.443E+01	7.355E-12
19129	34.70	3.470E+01	7.835E-12
19220	35.82	3.582E+01	1.013E-11
19333	34.89	3.489E+01	8.184E-12
19446	34.79	3.479E+01	7.990E-12
19474	35.78	3.578E+01	1.004E-11
19629	36.56	3.656E+01	1.201E-11
19629	35.88	3.588E+01	1.027E-11
19785	36.28	3.628E+01	1.126E-11
19813	35.69	3.569E+01	9.843E-12
19968	37.07	3.707E+01	1.352E-11
19968	36.68	3.668E+01	1.234E-11
20130	37.75	3.775E+01	1.579E-11
20299	37.43	3.743E+01	1.467E-11
20439	37.69	3.769E+01	1.559E-11
20505	36.96	3.696E+01	1.316E-11
20660	37.01	3.701E+01	1.333E-11
20829	37.27	3.727E+01	1.415E-11
20829	36.58	3.658E+01	1.206E-11
21003	36.87	3.687E+01	1.289E-11
21013	36.32	3.632E+01	1.135E-11
21182	37.41	3.741E+01	1.462E-11
21323	37.96	3.796E+01	1.659E-11
21394	38.81	3.881E+01	2.017E-11
21512	38.05	3.805E+01	1.694E-11
21655	38.67	3.867E+01	1.952E-11
21812	38.78	3.878E+01	2.002E-11
21856	39.55	3.955E+01	2.394E-11
22007	39.20	3.920E+01	2.205E-11
22021	39.92	3.992E+01	2.602E-11
22150	39.46	3.946E+01	2.342E-11
22249	38.54	3.854E+01	1.894E-11
22411	39.14	3.914E+01	2.178E-11
22580	39.52	3.952E+01	2.377E-11

22739	39.72	3.972E+01	2.489E-11
22806	39.10	3.910E+01	2.154E-11
22930	39.84	3.984E+01	2.555E-11
23078	40.03	4.003E+01	2.673E-11
23080	40.86	4.086E+01	3.237E-11
23212	39.65	3.965E+01	2.444E-11
23312	40.15	4.015E+01	2.746E-11
23455	40.27	4.027E+01	2.821E-11
23512	41.19	4.119E+01	3.491E-11
23636	40.14	4.014E+01	2.741E-11
23794	40.33	4.033E+01	2.862E-11
23893	40.08	4.008E+01	2.699E-11
23969	40.88	4.088E+01	3.248E-11
24112	40.09	4.009E+01	2.711E-11
24143	40.75	4.075E+01	3.149E-11
24301	40.52	4.052E+01	2.987E-11
24405	40.21	4.021E+01	2.786E-11
24497	40.58	4.058E+01	3.033E-11
24606	40.04	4.004E+01	2.676E-11
24672	40.48	4.048E+01	2.961E-11
24796	40.53	4.053E+01	2.997E-11
24897	40.08	4.008E+01	2.699E-11
25022	40.92	4.092E+01	3.280E-11
25135	40.62	4.062E+01	3.061E-11
25192	41.26	4.126E+01	3.544E-11
25310	41.15	4.115E+01	3.455E-11
25389	40.28	4.028E+01	2.831E-11
25535	39.81	3.981E+01	2.539E-11
25545	40.55	4.055E+01	3.009E-11
25716	40.23	4.023E+01	2.798E-11
25873	40.14	4.014E+01	2.739E-11
25950	39.58	3.958E+01	2.406E-11
26053	40.39	4.039E+01	2.902E-11
26119	39.65	3.965E+01	2.447E-11
26233	40.51	4.051E+01	2.985E-11
26392	40.42	4.042E+01	2.924E-11
26561	40.86	4.086E+01	3.231E-11
26731	41.51	4.151E+01	3.760E-11
26889	41.24	4.124E+01	3.527E-11
27024	40.68	4.068E+01	3.101E-11
27182	41.61	4.161E+01	3.847E-11
27182	40.88	4.088E+01	3.250E-11
27352	40.99	4.099E+01	3.333E-11
27422	40.70	4.070E+01	3.114E-11
27532	41.31	4.131E+01	3.588E-11
27643	40.88	4.088E+01	3.248E-11
27688	41.40	4.140E+01	3.662E-11
27803	40.66	4.066E+01	3.087E-11
27866	41.33	4.133E+01	3.603E-11

Calculate device radiated power from EMC test data

28035	40.86	4.086E+01	3.233E-11
28156	41.19	4.119E+01	3.491E-11
28201	40.47	4.047E+01	2.955E-11
28322	40.12	4.012E+01	2.726E-11
28365	40.72	4.072E+01	3.128E-11
28486	40.05	4.005E+01	2.684E-11
28622	40.70	4.070E+01	3.114E-11
28661	39.86	3.986E+01	2.570E-11
28803	40.09	4.009E+01	2.709E-11
28891	39.60	3.960E+01	2.420E-11
29046	40.19	4.019E+01	2.769E-11
29209	40.47	4.047E+01	2.954E-11
29363	39.88	3.988E+01	2.580E-11
29526	40.39	4.039E+01	2.899E-11
29691	40.46	4.046E+01	2.946E-11
29731	39.91	3.991E+01	2.597E-11
29865	40.60	4.060E+01	3.043E-11
29893	39.91	3.991E+01	2.598E-11
29992	40.63	4.063E+01	3.068E-11
30006	39.81	3.981E+01	2.542E-11