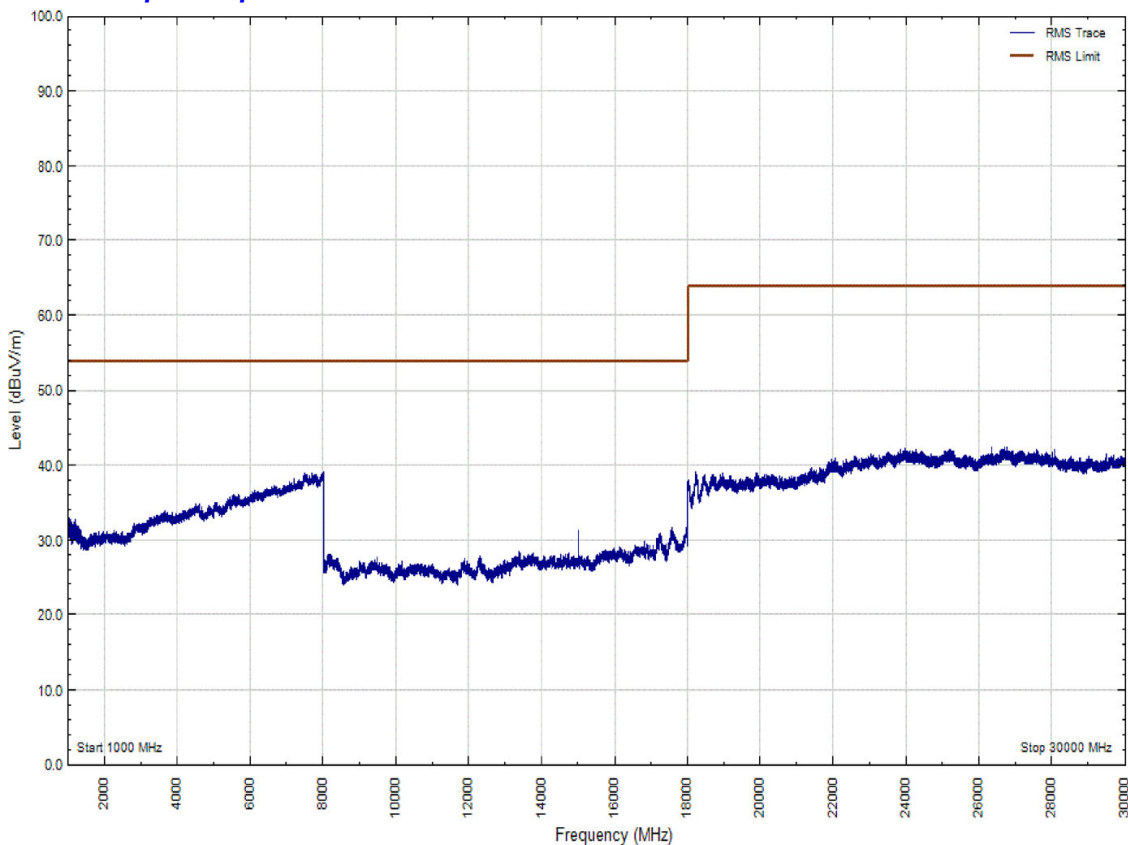


Prepared by: Dr Vitas Anderson (Two Fields Consulting)  
Date: 16 June 2022

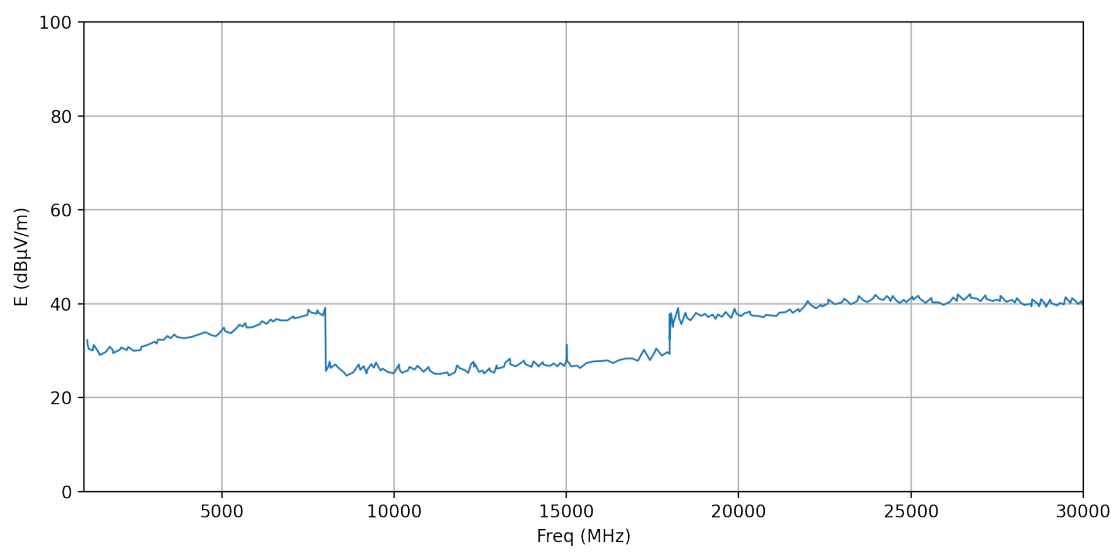
FCC ID: BCGA2179 (Configuration 1, Figure/Page 17, Class B device)  
Frequency span: 1,000 MHz to 30,000 MHz  
RBW: 1.0 MHz, distance: 3 m  
Peak-to-average correction: N/A  
No. of sample points: 29,000  
Cumulative S level:  $3.735\text{E-}07 \text{ W/m}^2$   
Device radiated power: 0.0258 mW

## EMC test spectral plot



## Plot of extracted data from EMC test spectral plot

**Calculate device radiated power from EMC test data**



*Table of extracted data from EMC test spectral plot*

Freq (MHz)	E (dBμV/m)	E (V/m rms)	S (W/m²)
1090	32.26	3.226E+01	4.467E-12
1099	31.34	3.134E+01	3.612E-12
1132	30.39	3.039E+01	2.905E-12
1244	30.03	3.003E+01	2.671E-12
1277	31.24	3.124E+01	3.532E-12
1405	29.81	2.981E+01	2.538E-12
1459	29.08	2.908E+01	2.146E-12
1634	29.77	2.977E+01	2.517E-12
1741	30.85	3.085E+01	3.228E-12
1835	30.09	3.009E+01	2.710E-12
1835	29.49	2.949E+01	2.361E-12
2029	30.17	3.017E+01	2.758E-12
2076	30.70	3.070E+01	3.117E-12
2236	30.13	3.013E+01	2.734E-12
2275	30.80	3.080E+01	3.191E-12
2438	29.98	2.998E+01	2.638E-12
2639	30.13	3.013E+01	2.733E-12
2662	30.85	3.085E+01	3.228E-12
2832	31.19	3.119E+01	3.493E-12
2934	31.55	3.155E+01	3.787E-12
3049	31.92	3.192E+01	4.130E-12
3106	31.50	3.150E+01	3.750E-12
3143	32.38	3.238E+01	4.590E-12
3305	32.30	3.230E+01	4.503E-12
3415	33.15	3.315E+01	5.472E-12
3508	32.64	3.264E+01	4.874E-12
3613	33.45	3.345E+01	5.871E-12
3694	32.91	3.291E+01	5.182E-12
3902	32.67	3.267E+01	4.902E-12
4107	32.91	3.291E+01	5.185E-12
4311	33.42	3.342E+01	5.824E-12
4514	33.96	3.396E+01	6.599E-12
4705	33.29	3.329E+01	5.660E-12
4822	33.08	3.308E+01	5.386E-12
4921	33.73	3.373E+01	6.264E-12
5057	34.93	3.493E+01	8.249E-12
5095	34.13	3.413E+01	6.871E-12
5257	33.74	3.374E+01	6.269E-12
5405	34.68	3.468E+01	7.793E-12
5507	35.54	3.554E+01	9.496E-12
5602	35.15	3.515E+01	8.674E-12
5674	35.90	3.590E+01	1.031E-11
5718	34.91	3.491E+01	8.222E-12
5885	35.01	3.501E+01	8.408E-12
6096	35.65	3.565E+01	9.747E-12
6166	36.30	3.630E+01	1.132E-11

6292	35.71	3.571E+01	9.887E-12
6417	36.66	3.666E+01	1.229E-11
6486	36.20	3.620E+01	1.105E-11
6584	36.76	3.676E+01	1.258E-11
6693	36.48	3.648E+01	1.180E-11
6894	36.44	3.644E+01	1.170E-11
7076	37.32	3.732E+01	1.432E-11
7100	36.88	3.688E+01	1.295E-11
7295	37.24	3.724E+01	1.404E-11
7482	37.63	3.763E+01	1.536E-11
7504	38.75	3.875E+01	1.988E-11
7587	38.13	3.813E+01	1.725E-11
7748	37.88	3.788E+01	1.630E-11
7766	38.65	3.865E+01	1.942E-11
7815	38.03	3.803E+01	1.685E-11
7929	37.49	3.749E+01	1.489E-11
7998	39.16	3.916E+01	2.187E-11
8015	25.67	2.567E+01	9.794E-13
8084	26.61	2.661E+01	1.214E-12
8126	27.66	2.766E+01	1.548E-12
8155	26.33	2.633E+01	1.140E-12
8291	27.08	2.708E+01	1.355E-12
8380	26.35	2.635E+01	1.144E-12
8543	25.38	2.538E+01	9.147E-13
8612	24.67	2.467E+01	7.776E-13
8813	25.39	2.539E+01	9.179E-13
8969	27.08	2.708E+01	1.355E-12
9013	25.93	2.593E+01	1.038E-12
9115	26.73	2.673E+01	1.249E-12
9199	25.17	2.517E+01	8.713E-13
9223	26.00	2.600E+01	1.057E-12
9335	27.14	2.714E+01	1.371E-12
9409	26.39	2.639E+01	1.155E-12
9471	27.49	2.749E+01	1.489E-12
9601	25.80	2.580E+01	1.008E-12
9664	26.19	2.619E+01	1.102E-12
9808	25.48	2.548E+01	9.368E-13
9984	25.19	2.519E+01	8.761E-13
10057	26.01	2.601E+01	1.060E-12
10140	27.08	2.708E+01	1.355E-12
10152	26.00	2.600E+01	1.057E-12
10223	25.29	2.529E+01	8.962E-13
10397	25.78	2.578E+01	1.004E-12
10444	26.57	2.657E+01	1.205E-12
10595	25.98	2.598E+01	1.050E-12
10674	26.78	2.678E+01	1.263E-12
10788	26.03	2.603E+01	1.063E-12
10848	25.51	2.551E+01	9.427E-13
10998	26.52	2.652E+01	1.191E-12

## Calculate device radiated power from EMC test data

11032	25.76	2.576E+01	9.988E-13
11167	25.09	2.509E+01	8.573E-13
11344	25.08	2.508E+01	8.538E-13
11546	25.38	2.538E+01	9.160E-13
11586	24.73	2.473E+01	7.884E-13
11764	25.40	2.540E+01	9.202E-13
11824	26.88	2.688E+01	1.293E-12
11905	26.27	2.627E+01	1.124E-12
12060	25.83	2.583E+01	1.015E-12
12147	25.27	2.527E+01	8.924E-13
12232	27.19	2.719E+01	1.388E-12
12305	27.64	2.764E+01	1.542E-12
12319	26.60	2.660E+01	1.211E-12
12347	27.14	2.714E+01	1.371E-12
12459	25.50	2.550E+01	9.401E-13
12567	25.76	2.576E+01	9.992E-13
12612	25.13	2.513E+01	8.644E-13
12766	26.27	2.627E+01	1.124E-12
12786	25.69	2.569E+01	9.830E-13
12904	25.30	2.530E+01	8.990E-13
12975	26.88	2.688E+01	1.293E-12
12991	26.19	2.619E+01	1.102E-12
13182	26.56	2.656E+01	1.201E-12
13226	27.49	2.749E+01	1.489E-12
13362	28.31	2.831E+01	1.796E-12
13372	27.10	2.710E+01	1.362E-12
13525	26.66	2.666E+01	1.230E-12
13641	27.20	2.720E+01	1.391E-12
13770	27.90	2.790E+01	1.635E-12
13797	27.18	2.718E+01	1.385E-12
13986	26.54	2.654E+01	1.195E-12
14042	27.75	2.775E+01	1.579E-12
14158	26.96	2.696E+01	1.318E-12
14185	26.64	2.664E+01	1.225E-12
14314	27.54	2.754E+01	1.506E-12
14343	27.00	2.700E+01	1.330E-12
14521	26.74	2.674E+01	1.253E-12
14631	27.31	2.731E+01	1.428E-12
14745	26.68	2.668E+01	1.234E-12
14821	27.41	2.741E+01	1.461E-12
14931	26.75	2.675E+01	1.256E-12
14995	27.76	2.776E+01	1.584E-12
15010	31.29	3.129E+01	3.573E-12
15021	27.77	2.777E+01	1.587E-12
15073	27.41	2.741E+01	1.461E-12
15142	26.65	2.665E+01	1.226E-12
15306	26.84	2.684E+01	1.281E-12
15399	26.32	2.632E+01	1.137E-12
15587	27.40	2.740E+01	1.457E-12

## Calculate device radiated power from EMC test data

15791	27.73	2.773E+01	1.573E-12
15991	27.79	2.779E+01	1.594E-12
16193	27.94	2.794E+01	1.652E-12
16350	27.37	2.737E+01	1.446E-12
16525	27.99	2.799E+01	1.669E-12
16732	28.36	2.836E+01	1.818E-12
16916	28.34	2.834E+01	1.809E-12
17076	27.86	2.786E+01	1.621E-12
17177	29.26	2.926E+01	2.236E-12
17253	30.19	3.019E+01	2.772E-12
17361	28.81	2.881E+01	2.019E-12
17422	27.98	2.798E+01	1.667E-12
17563	29.72	2.972E+01	2.484E-12
17606	30.47	3.047E+01	2.957E-12
17773	28.95	2.895E+01	2.085E-12
17927	29.70	2.970E+01	2.474E-12
17995	29.31	2.931E+01	2.263E-12
17998	37.80	3.780E+01	1.600E-11
17998	33.42	3.342E+01	5.824E-12
17998	32.44	3.244E+01	4.650E-12
18036	37.99	3.799E+01	1.669E-11
18094	35.06	3.506E+01	8.508E-12
18102	35.90	3.590E+01	1.033E-11
18243	39.10	3.910E+01	2.154E-11
18270	36.97	3.697E+01	1.319E-11
18336	35.64	3.564E+01	9.721E-12
18455	38.11	3.811E+01	1.717E-11
18499	37.01	3.701E+01	1.333E-11
18600	36.47	3.647E+01	1.177E-11
18713	37.52	3.752E+01	1.500E-11
18756	38.05	3.805E+01	1.692E-11
18916	37.40	3.740E+01	1.458E-11
19019	37.87	3.787E+01	1.623E-11
19114	37.17	3.717E+01	1.383E-11
19246	37.69	3.769E+01	1.559E-11
19330	36.77	3.677E+01	1.261E-11
19397	37.73	3.773E+01	1.572E-11
19514	37.20	3.720E+01	1.392E-11
19617	38.24	3.824E+01	1.768E-11
19697	37.63	3.763E+01	1.536E-11
19786	36.97	3.697E+01	1.320E-11
19878	38.95	3.895E+01	2.083E-11
19934	37.90	3.790E+01	1.637E-11
20071	37.35	3.735E+01	1.442E-11
20156	37.92	3.792E+01	1.643E-11
20328	38.34	3.834E+01	1.810E-11
20342	37.79	3.779E+01	1.594E-11
20390	37.47	3.747E+01	1.481E-11
20564	37.40	3.740E+01	1.457E-11

20727	37.14	3.714E+01	1.372E-11
20782	37.62	3.762E+01	1.532E-11
20961	37.49	3.749E+01	1.488E-11
21096	37.40	3.740E+01	1.456E-11
21180	38.10	3.810E+01	1.713E-11
21360	38.20	3.820E+01	1.753E-11
21485	38.80	3.880E+01	2.010E-11
21571	38.05	3.805E+01	1.692E-11
21730	38.91	3.891E+01	2.065E-11
21756	38.31	3.831E+01	1.797E-11
21931	39.61	3.961E+01	2.424E-11
22002	40.58	4.058E+01	3.032E-11
22105	39.68	3.968E+01	2.463E-11
22241	39.03	3.903E+01	2.119E-11
22386	39.75	3.975E+01	2.503E-11
22427	39.39	3.939E+01	2.307E-11
22597	40.10	4.010E+01	2.713E-11
22598	40.94	4.094E+01	3.292E-11
22791	39.90	3.990E+01	2.589E-11
22991	40.28	4.028E+01	2.826E-11
23068	41.09	4.109E+01	3.410E-11
23178	40.41	4.041E+01	2.913E-11
23251	39.88	3.988E+01	2.583E-11
23437	40.55	4.055E+01	3.012E-11
23487	41.65	4.165E+01	3.879E-11
23621	40.72	4.072E+01	3.129E-11
23733	40.33	4.033E+01	2.864E-11
23893	41.07	4.107E+01	3.392E-11
23968	41.91	4.191E+01	4.113E-11
24076	41.08	4.108E+01	3.401E-11
24199	40.79	4.079E+01	3.179E-11
24303	41.65	4.165E+01	3.879E-11
24365	41.22	4.122E+01	3.513E-11
24405	40.56	4.056E+01	3.020E-11
24470	41.65	4.165E+01	3.879E-11
24588	40.60	4.060E+01	3.043E-11
24680	40.19	4.019E+01	2.768E-11
24794	40.84	4.084E+01	3.215E-11
24864	40.31	4.031E+01	2.848E-11
25045	41.50	4.150E+01	3.745E-11
25066	40.86	4.086E+01	3.234E-11
25213	41.70	4.170E+01	3.925E-11
25256	41.11	4.111E+01	3.424E-11
25431	40.18	4.018E+01	2.762E-11
25589	41.24	4.124E+01	3.532E-11
25622	40.31	4.031E+01	2.852E-11
25807	40.29	4.029E+01	2.835E-11
25950	39.76	3.976E+01	2.509E-11
26135	40.42	4.042E+01	2.922E-11

## Calculate device radiated power from EMC test data

26227	41.34	4.134E+01	3.615E-11
26335	40.59	4.059E+01	3.040E-11
26358	41.99	4.199E+01	4.195E-11
26536	40.79	4.079E+01	3.185E-11
26719	42.06	4.206E+01	4.261E-11
26737	41.30	4.130E+01	3.576E-11
26921	41.08	4.108E+01	3.399E-11
27021	40.54	4.054E+01	3.003E-11
27158	41.80	4.180E+01	4.018E-11
27195	41.00	4.100E+01	3.337E-11
27371	40.58	4.058E+01	3.029E-11
27492	40.89	4.089E+01	3.252E-11
27589	40.59	4.059E+01	3.036E-11
27598	41.70	4.170E+01	3.925E-11
27673	41.15	4.115E+01	3.459E-11
27767	40.39	4.039E+01	2.903E-11
27930	40.84	4.084E+01	3.219E-11
28016	40.26	4.026E+01	2.819E-11
28079	41.19	4.119E+01	3.490E-11
28191	40.20	4.020E+01	2.777E-11
28293	39.74	3.974E+01	2.499E-11
28479	40.01	4.001E+01	2.658E-11
28498	39.41	3.941E+01	2.317E-11
28518	40.94	4.094E+01	3.292E-11
28678	40.03	4.003E+01	2.672E-11
28726	39.45	3.945E+01	2.338E-11
28779	40.99	4.099E+01	3.330E-11
28885	40.06	4.006E+01	2.692E-11
28921	39.35	3.935E+01	2.284E-11
29041	40.89	4.089E+01	3.253E-11
29077	40.12	4.012E+01	2.728E-11
29243	39.63	3.963E+01	2.436E-11
29334	40.17	4.017E+01	2.761E-11
29438	39.84	3.984E+01	2.558E-11
29491	41.40	4.140E+01	3.658E-11
29630	40.17	4.017E+01	2.757E-11
29679	41.19	4.119E+01	3.490E-11
29799	40.44	4.044E+01	2.935E-11
29858	39.93	3.993E+01	2.609E-11
29960	40.61	4.061E+01	3.053E-11
29980	39.85	3.985E+01	2.561E-11