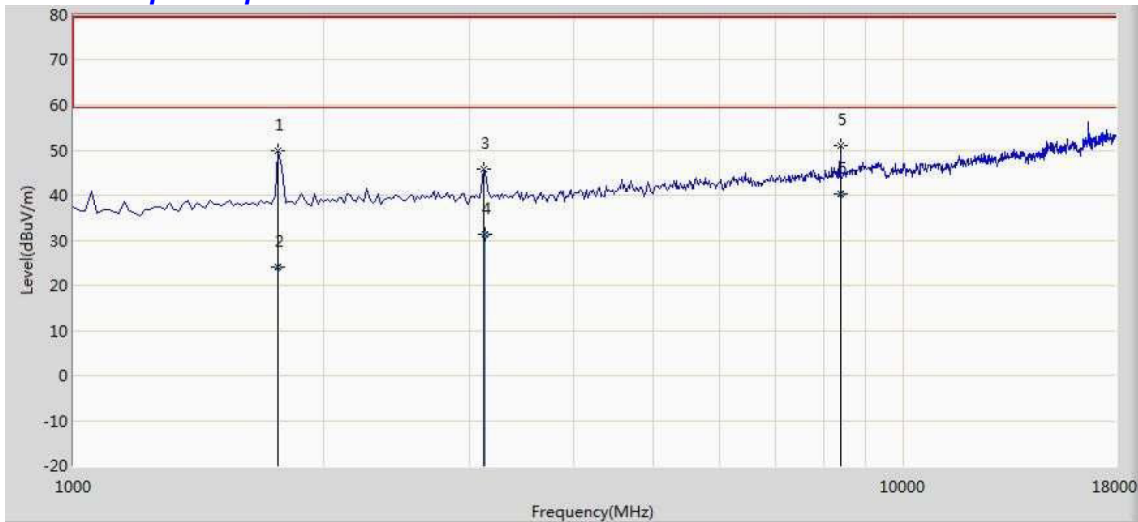


Prepared by: Dr Vitas Anderson (Two Fields Consulting)
Date: 16 June 2022

FCC ID: 2AS02CBPANDARQT (Configuration 1, Figure/Page 24, Class A device)
Frequency span: 1,000 MHz to 18,000 MHz
RBW: 1.0 MHz, distance: 3 m
Peak-to-average correction: -16.90 dB
No. of sample points: 17,000
Cumulative S level: $4.981\text{E-}08 \text{ W/m}^2$
Device radiated power: 0.0034 mW

EMC test spectral plot



Plot of extracted data from EMC test spectral plot

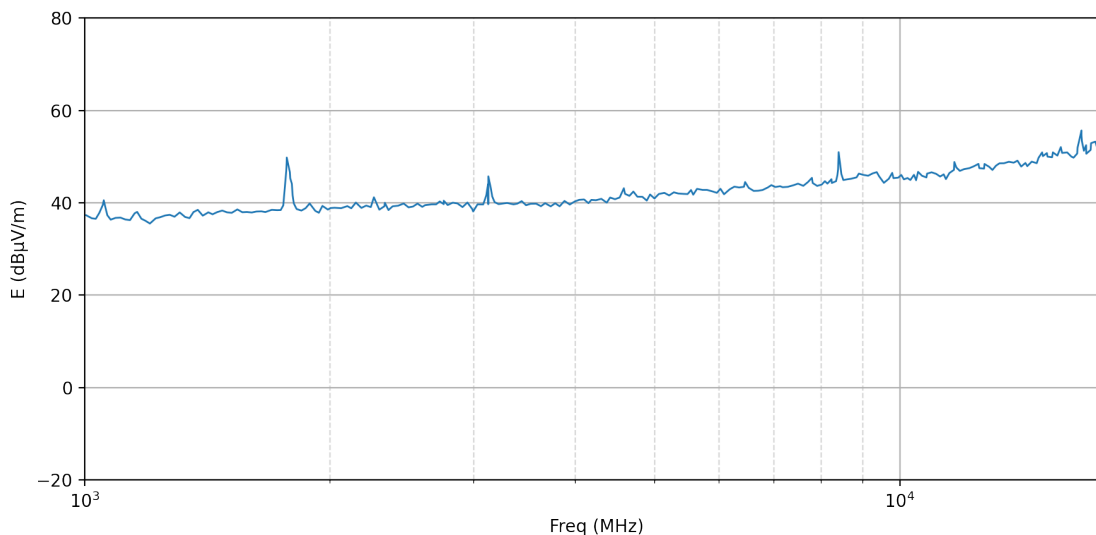


Table of extracted data from EMC test spectral plot

Freq (MHz)	E (dBμV/m)	E (V/m rms)	S (W/m²)
1004	37.30	2.040E+01	2.912E-13
1021	36.64	1.974E+01	2.498E-13
1032	36.54	1.964E+01	2.442E-13
1042	37.84	2.094E+01	3.297E-13
1053	39.55	2.265E+01	4.885E-13
1055	40.54	2.364E+01	6.134E-13
1062	38.34	2.144E+01	3.694E-13
1066	37.30	2.040E+01	2.912E-13
1076	36.35	1.945E+01	2.338E-13
1091	36.74	1.984E+01	2.554E-13
1106	36.80	1.990E+01	2.589E-13
1122	36.39	1.949E+01	2.357E-13
1136	36.25	1.935E+01	2.283E-13
1151	37.72	2.082E+01	3.207E-13
1160	38.02	2.112E+01	3.436E-13
1174	36.55	1.965E+01	2.447E-13
1187	36.10	1.920E+01	2.206E-13
1202	35.51	1.861E+01	1.925E-13
1222	36.64	1.974E+01	2.498E-13
1236	36.86	1.996E+01	2.625E-13
1255	37.25	2.035E+01	2.876E-13
1272	37.39	2.049E+01	2.972E-13
1289	36.99	2.009E+01	2.708E-13
1308	37.91	2.101E+01	3.348E-13
1328	36.93	2.003E+01	2.669E-13
1345	36.68	1.978E+01	2.519E-13
1360	37.99	2.109E+01	3.412E-13
1376	38.47	2.157E+01	3.811E-13
1396	37.21	2.031E+01	2.852E-13
1418	37.93	2.103E+01	3.365E-13
1435	37.51	2.061E+01	3.056E-13
1454	37.99	2.109E+01	3.412E-13
1475	38.32	2.142E+01	3.675E-13
1495	37.93	2.103E+01	3.365E-13
1515	37.83	2.093E+01	3.283E-13
1539	38.56	2.166E+01	3.890E-13
1561	37.95	2.105E+01	3.379E-13
1581	38.01	2.111E+01	3.422E-13
1603	37.90	2.100E+01	3.338E-13
1624	38.11	2.121E+01	3.508E-13
1647	38.15	2.125E+01	3.537E-13
1666	37.99	2.109E+01	3.412E-13
1696	38.47	2.157E+01	3.811E-13
1722	38.40	2.150E+01	3.748E-13
1739	38.43	2.153E+01	3.771E-13
1752	39.44	2.254E+01	4.760E-13

Calculate device radiated power from EMC test data

1757	41.98	2.508E+01	8.548E-13
1763	44.68	2.778E+01	1.590E-12
1767	46.92	3.002E+01	2.667E-12
1769	48.63	3.173E+01	3.949E-12
1769	49.79	3.289E+01	5.158E-12
1785	46.65	2.975E+01	2.507E-12
1787	45.31	2.841E+01	1.837E-12
1795	44.14	2.724E+01	1.404E-12
1799	41.62	2.472E+01	7.864E-13
1805	39.84	2.294E+01	5.216E-13
1819	38.65	2.175E+01	3.972E-13
1844	38.31	2.141E+01	3.671E-13
1866	38.83	2.193E+01	4.139E-13
1888	39.86	2.296E+01	5.241E-13
1918	38.25	2.135E+01	3.618E-13
1937	37.84	2.094E+01	3.297E-13
1957	39.33	2.243E+01	4.639E-13
1987	38.53	2.163E+01	3.863E-13
2002	38.86	2.196E+01	4.168E-13
2025	38.92	2.202E+01	4.226E-13
2063	38.83	2.193E+01	4.139E-13
2100	39.28	2.238E+01	4.591E-13
2123	38.81	2.191E+01	4.118E-13
2151	40.05	2.315E+01	5.474E-13
2185	38.89	2.199E+01	4.197E-13
2214	39.39	2.249E+01	4.711E-13
2244	39.07	2.217E+01	4.374E-13
2263	41.19	2.429E+01	7.126E-13
2298	38.52	2.162E+01	3.850E-13
2331	39.25	2.235E+01	4.553E-13
2334	40.00	2.310E+01	5.418E-13
2358	38.43	2.153E+01	3.771E-13
2386	39.24	2.234E+01	4.544E-13
2424	39.37	2.247E+01	4.687E-13
2462	39.84	2.294E+01	5.220E-13
2496	39.01	2.211E+01	4.314E-13
2528	39.19	2.229E+01	4.497E-13
2560	39.82	2.292E+01	5.198E-13
2594	39.13	2.223E+01	4.428E-13
2616	39.49	2.259E+01	4.818E-13
2664	39.66	2.276E+01	5.008E-13
2698	39.66	2.276E+01	5.013E-13
2726	40.29	2.339E+01	5.795E-13
2757	39.70	2.280E+01	5.056E-13
2757	40.45	2.355E+01	6.008E-13
2788	39.52	2.262E+01	4.845E-13
2828	40.02	2.312E+01	5.440E-13
2866	39.85	2.295E+01	5.234E-13
2907	39.07	2.217E+01	4.374E-13

Calculate device radiated power from EMC test data

2947	40.06	2.316E+01	5.485E-13
2987	38.68	2.178E+01	3.992E-13
2995	38.11	2.121E+01	3.508E-13
3033	39.66	2.276E+01	5.004E-13
3082	39.64	2.274E+01	4.987E-13
3109	41.61	2.471E+01	7.847E-13
3124	44.01	2.711E+01	1.365E-12
3126	39.69	2.279E+01	5.039E-13
3127	45.72	2.882E+01	2.022E-12
3150	42.97	2.607E+01	1.073E-12
3161	41.37	2.447E+01	7.421E-13
3183	40.14	2.324E+01	5.589E-13
3219	39.71	2.281E+01	5.065E-13
3256	39.82	2.292E+01	5.198E-13
3297	39.96	2.306E+01	5.362E-13
3358	39.66	2.276E+01	5.008E-13
3395	39.82	2.292E+01	5.198E-13
3435	40.36	2.346E+01	5.885E-13
3478	39.48	2.258E+01	4.801E-13
3524	39.79	2.289E+01	5.155E-13
3579	39.80	2.290E+01	5.177E-13
3628	39.26	2.236E+01	4.567E-13
3671	39.91	2.301E+01	5.307E-13
3729	39.23	2.233E+01	4.533E-13
3777	39.89	2.299E+01	5.285E-13
3824	39.24	2.234E+01	4.544E-13
3877	40.40	2.350E+01	5.938E-13
3935	39.62	2.272E+01	4.961E-13
3989	40.26	2.336E+01	5.749E-13
4043	40.65	2.375E+01	6.284E-13
4098	40.72	2.382E+01	6.393E-13
4149	39.91	2.301E+01	5.307E-13
4183	40.63	2.373E+01	6.262E-13
4237	40.56	2.366E+01	6.160E-13
4302	40.86	2.396E+01	6.595E-13
4369	40.03	2.313E+01	5.451E-13
4410	41.13	2.423E+01	7.032E-13
4472	40.77	2.387E+01	6.473E-13
4531	41.15	2.425E+01	7.054E-13
4585	43.15	2.625E+01	1.118E-12
4600	41.93	2.503E+01	8.455E-13
4657	41.50	2.460E+01	7.650E-13
4710	42.43	2.553E+01	9.474E-13
4763	41.32	2.442E+01	7.340E-13
4831	41.30	2.440E+01	7.299E-13
4891	40.48	2.358E+01	6.050E-13
4937	41.80	2.490E+01	8.196E-13
4999	40.93	2.403E+01	6.710E-13
5061	41.90	2.500E+01	8.397E-13

5141	42.14	2.524E+01	8.873E-13
5211	41.60	2.470E+01	7.823E-13
5280	42.27	2.537E+01	9.128E-13
5345	42.01	2.511E+01	8.602E-13
5426	41.93	2.503E+01	8.445E-13
5489	41.89	2.499E+01	8.368E-13
5543	42.76	2.586E+01	1.022E-12
5577	41.75	2.485E+01	8.103E-13
5637	43.01	2.611E+01	1.084E-12
5728	42.79	2.589E+01	1.029E-12
5799	42.79	2.589E+01	1.029E-12
5892	42.45	2.555E+01	9.514E-13
5963	42.16	2.526E+01	8.904E-13
6023	43.03	2.613E+01	1.088E-12
6084	41.84	2.494E+01	8.281E-13
6182	42.91	2.601E+01	1.059E-12
6265	43.49	2.659E+01	1.210E-12
6350	43.31	2.641E+01	1.161E-12
6436	43.46	2.656E+01	1.202E-12
6457	44.50	2.760E+01	1.525E-12
6523	43.24	2.634E+01	1.141E-12
6616	42.57	2.567E+01	9.793E-13
6701	42.61	2.571E+01	9.875E-13
6785	42.77	2.587E+01	1.025E-12
6884	43.31	2.641E+01	1.161E-12
6954	43.82	2.692E+01	1.306E-12
7033	43.42	2.652E+01	1.190E-12
7128	43.58	2.668E+01	1.236E-12
7180	43.37	2.647E+01	1.177E-12
7284	43.45	2.655E+01	1.199E-12
7399	43.79	2.689E+01	1.296E-12
7498	44.14	2.724E+01	1.404E-12
7611	43.67	2.677E+01	1.262E-12
7711	44.48	2.758E+01	1.520E-12
7798	45.40	2.850E+01	1.876E-12
7816	44.27	2.737E+01	1.448E-12
7915	43.65	2.675E+01	1.256E-12
8018	43.96	2.706E+01	1.347E-12
8090	44.68	2.778E+01	1.590E-12
8147	44.15	2.725E+01	1.409E-12
8241	45.10	2.820E+01	1.753E-12
8249	44.29	2.739E+01	1.453E-12
8348	44.67	2.777E+01	1.587E-12
8379	45.93	2.903E+01	2.124E-12
8397	47.28	3.038E+01	2.896E-12
8410	50.96	3.406E+01	6.752E-12
8475	46.21	2.931E+01	2.262E-12
8521	44.92	2.802E+01	1.681E-12
8601	45.05	2.815E+01	1.734E-12

Calculate device radiated power from EMC test data

8711	45.20	2.830E+01	1.795E-12
8847	45.50	2.860E+01	1.922E-12
8903	46.32	2.942E+01	2.319E-12
9014	46.04	2.914E+01	2.176E-12
9141	45.86	2.896E+01	2.087E-12
9260	46.37	2.947E+01	2.347E-12
9365	46.63	2.973E+01	2.494E-12
9428	45.73	2.883E+01	2.027E-12
9556	44.32	2.742E+01	1.463E-12
9690	45.20	2.830E+01	1.795E-12
9784	46.47	2.957E+01	2.405E-12
9817	45.34	2.844E+01	1.850E-12
9950	45.44	2.854E+01	1.894E-12
10038	46.02	2.912E+01	2.168E-12
10112	45.07	2.817E+01	1.739E-12
10215	45.36	2.846E+01	1.860E-12
10298	44.93	2.803E+01	1.684E-12
10403	46.05	2.915E+01	2.183E-12
10466	44.89	2.799E+01	1.668E-12
10525	46.70	2.980E+01	2.533E-12
10642	45.85	2.895E+01	2.080E-12
10776	45.49	2.859E+01	1.915E-12
10795	46.31	2.941E+01	2.317E-12
10935	46.59	2.969E+01	2.472E-12
11074	46.27	2.937E+01	2.294E-12
11200	45.68	2.878E+01	2.004E-12
11315	46.15	2.925E+01	2.233E-12
11386	45.13	2.823E+01	1.763E-12
11498	46.44	2.954E+01	2.384E-12
11647	47.12	3.022E+01	2.791E-12
11660	48.82	3.192E+01	4.131E-12
11726	47.64	3.074E+01	3.147E-12
11842	46.91	3.001E+01	2.656E-12
11987	47.28	3.038E+01	2.897E-12
12166	47.50	3.060E+01	3.043E-12
12307	47.86	3.096E+01	3.310E-12
12481	48.42	3.152E+01	3.761E-12
12512	47.49	3.059E+01	3.041E-12
12682	47.40	3.050E+01	2.973E-12
12696	48.40	3.150E+01	3.745E-12
12864	47.79	3.089E+01	3.256E-12
12984	47.10	3.020E+01	2.780E-12
13116	48.04	3.114E+01	3.446E-12
13245	48.54	3.164E+01	3.871E-12
13414	48.56	3.166E+01	3.885E-12
13602	48.87	3.197E+01	4.179E-12
13787	48.68	3.178E+01	3.995E-12
13936	49.12	3.222E+01	4.420E-12
14082	47.85	3.095E+01	3.300E-12

Calculate device radiated power from EMC test data

14253	48.62	3.172E+01	3.939E-12
14328	47.93	3.103E+01	3.361E-12
14508	48.90	3.200E+01	4.205E-12
14715	48.57	3.167E+01	3.894E-12
14791	49.74	3.284E+01	5.096E-12
14941	50.91	3.401E+01	6.677E-12
14975	50.09	3.319E+01	5.533E-12
15144	50.76	3.386E+01	6.451E-12
15168	50.00	3.310E+01	5.414E-12
15367	49.85	3.295E+01	5.227E-12
15401	50.91	3.401E+01	6.679E-12
15598	50.21	3.331E+01	5.684E-12
15751	52.05	3.515E+01	8.679E-12
15808	50.79	3.389E+01	6.495E-12
16037	50.90	3.400E+01	6.662E-12
16224	50.01	3.311E+01	5.429E-12
16327	49.76	3.286E+01	5.119E-12
16497	50.66	3.376E+01	6.310E-12
16512	51.89	3.499E+01	8.375E-12
16698	55.64	3.874E+01	1.986E-11
16698	54.57	3.767E+01	1.549E-11
16717	53.35	3.645E+01	1.172E-11
16811	51.26	3.436E+01	7.235E-12
16917	52.46	3.556E+01	9.546E-12
16925	50.61	3.371E+01	6.232E-12
17135	51.45	3.455E+01	7.560E-12
17154	52.90	3.600E+01	1.056E-11
17364	53.23	3.633E+01	1.141E-11
17465	51.78	3.488E+01	8.156E-12
17606	52.91	3.601E+01	1.058E-11
17643	53.61	3.671E+01	1.244E-11
17822	51.42	3.452E+01	7.508E-12
17845	52.52	3.562E+01	9.682E-12
18003	53.08	3.618E+01	1.101E-11