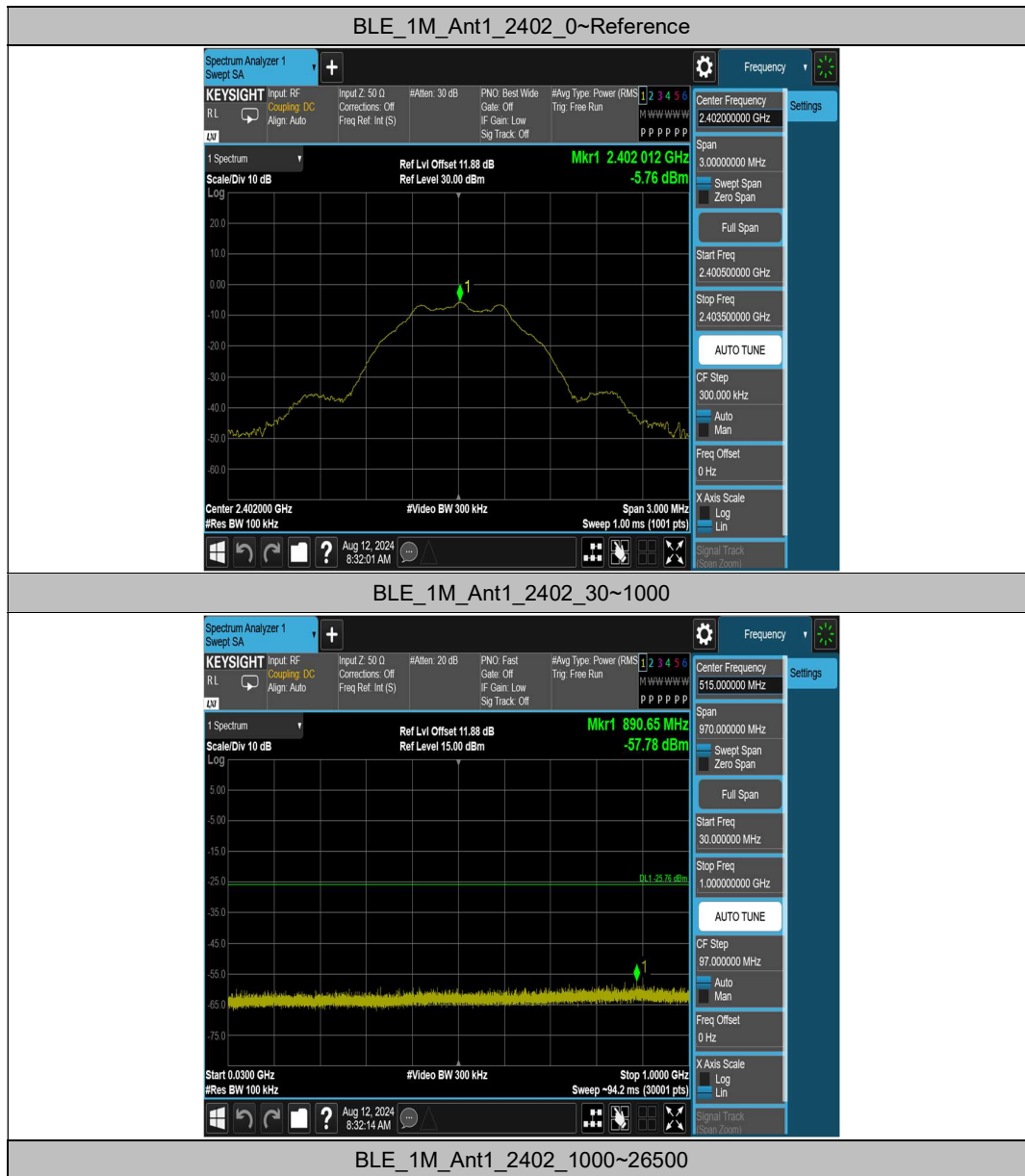


Test Graphs





BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



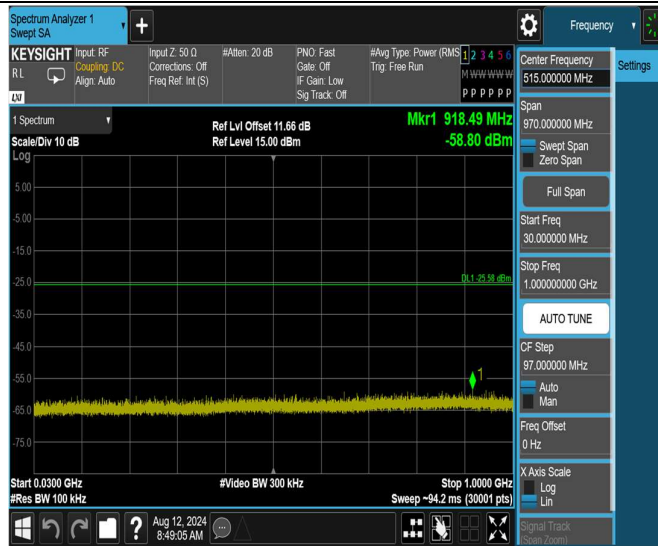
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

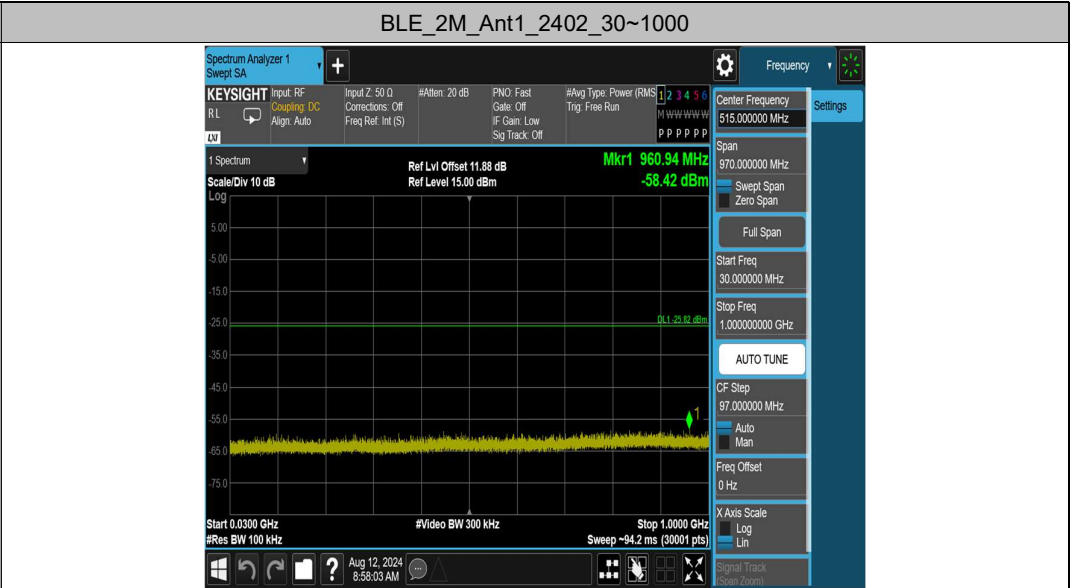


BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

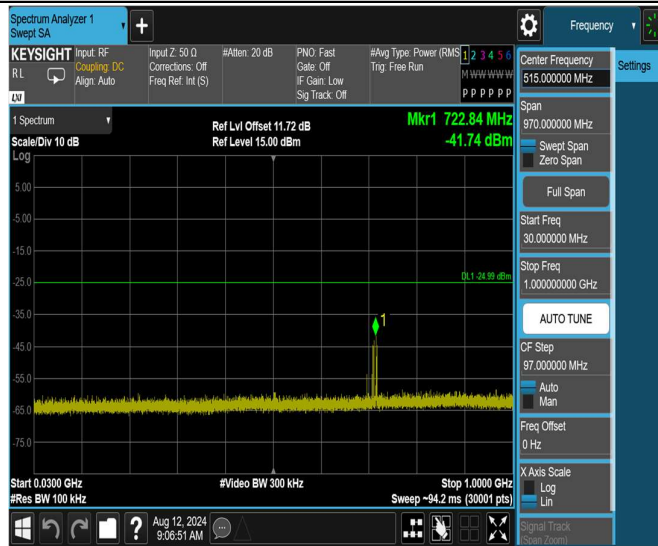




BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



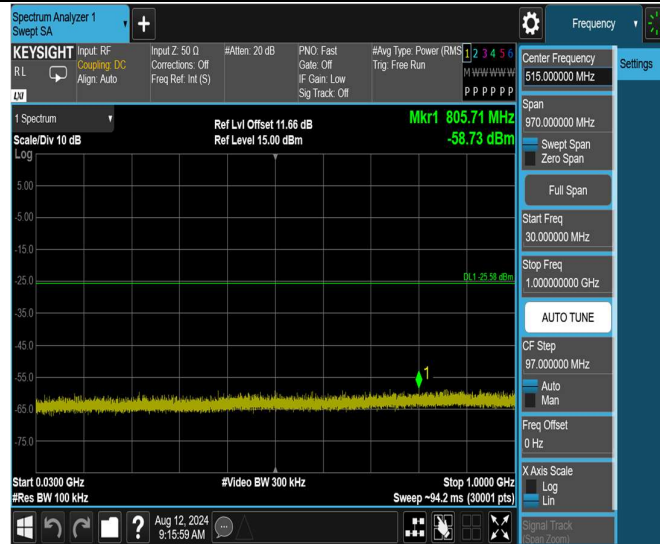
BLE_2M_Ant1_2440_1000~26500



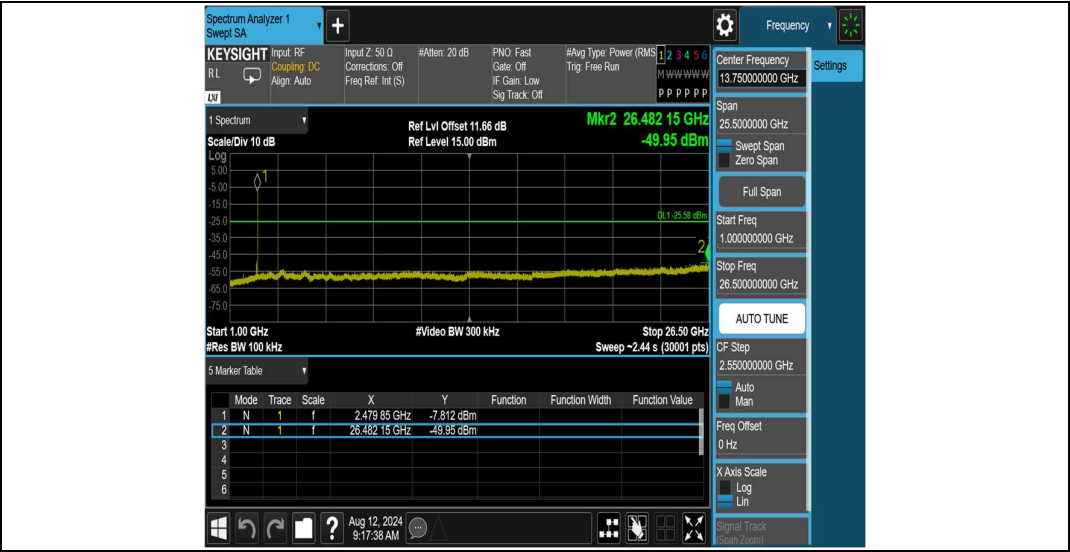
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



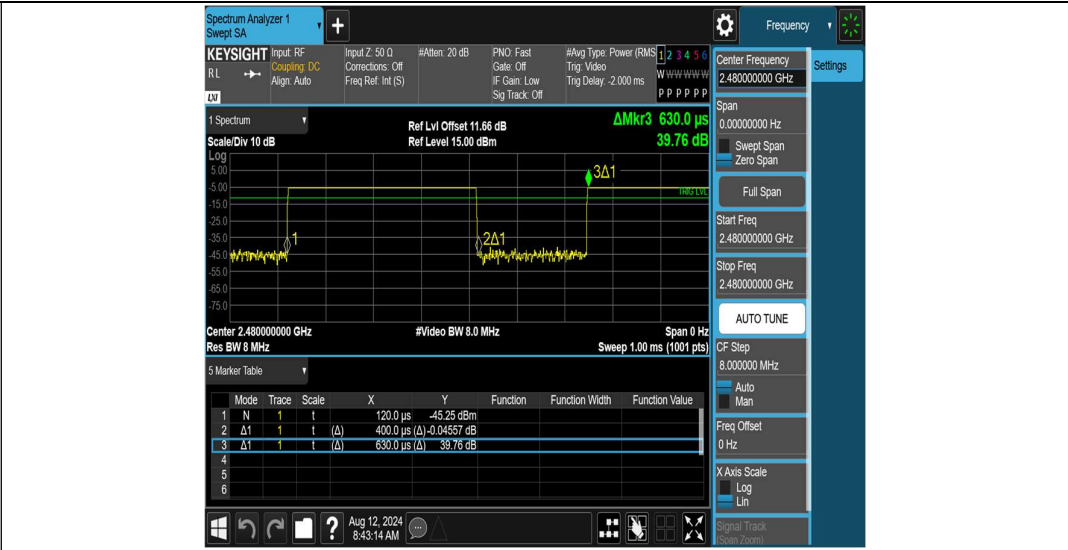
Appendix G: Duty Cycle

Test Result

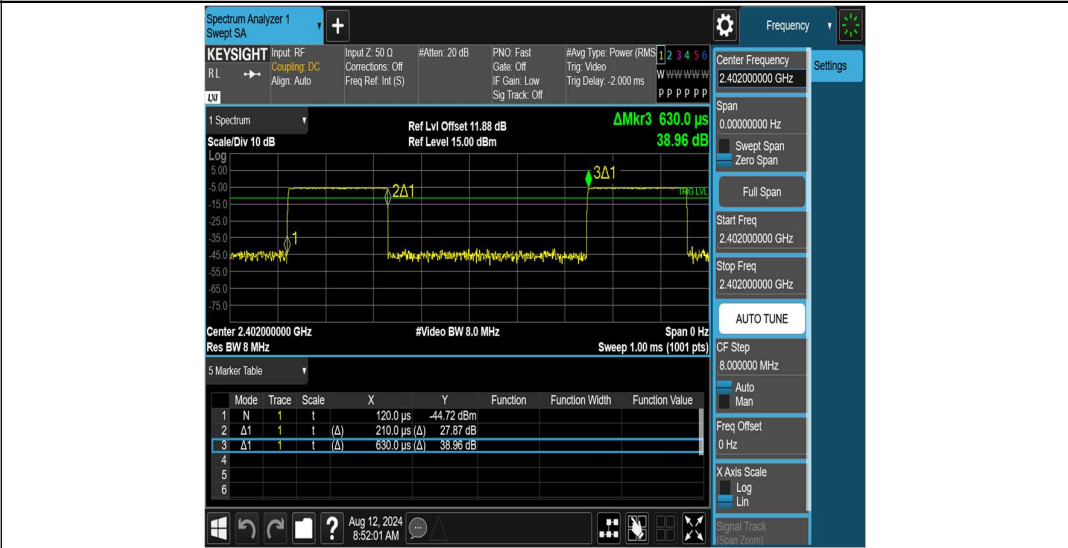
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	0.40	0.63	63.49
		2440	0.40	0.63	63.49
		2480	0.40	0.63	63.49
BLE_2M	Ant1	2402	0.21	0.63	33.33
		2440	0.21	0.63	33.33
		2480	0.21	0.63	33.33

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

Mode:	BLE 1M-2402
-------	-------------

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	-21.24	36.15	74.00	37.85	33.83	54.00	20.17	150	185	Vertical	PASS
2	2335.92	-21.05	38.42	74.00	35.58	36.68	54.00	17.32	150	352	Vertical	PASS
3	2361.68	-20.88	45.05	74.00	28.95	42.48	54.00	11.52	150	328	Vertical	PASS
4	2369.68	-20.84	45.19	74.00	28.81	43.11	54.00	10.89	150	328	Vertical	PASS
5	2373.28	-20.83	43.61	74.00	30.39	41.42	54.00	12.58	150	328	Vertical	PASS
6	2390	-20.73	37.21	74.00	36.79	34.21	54.00	19.79	150	123	Vertical	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	-21.24	35.86	74.00	38.14	33.92	54.00	20.08	150	225	Horizontal	PASS
2	2344.88	-20.99	37.77	74.00	36.23	35.04	54.00	18.96	150	225	Horizontal	PASS
3	2367.36	-20.86	41.41	74.00	32.59	39.60	54.00	14.40	150	58	Horizontal	PASS
4	2369.68	-20.84	41.49	74.00	32.51	34.79	54.00	19.21	150	225	Horizontal	PASS
5	2372.32	-20.83	40.09	74.00	33.91	37.41	54.00	16.59	150	111	Horizontal	PASS
6	2390	-20.73	36.53	74.00	37.47	34.39	54.00	19.61	150	357	Horizontal	PASS

Mode:	BLE 1M-2480
-------	-------------

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	10.67	48.67	74.00	25.33	45.37	54.00	8.63	150	251	Vertical	PASS
2	2485.3975	10.51	49.97	74.00	24.03	46.44	54.00	7.56	150	278	Vertical	PASS
3	2488.153	10.28	48.52	74.00	25.48	45.36	54.00	8.64	150	178	Vertical	PASS
4	2490.331	10.37	49.55	74.00	24.45	46.52	54.00	7.48	150	0	Vertical	PASS
5	2494.9675	10.53	48.88	74.00	25.12	45.82	54.00	8.18	150	280	Vertical	PASS
6	2500	10.20	47.11	74.00	26.89	44.01	54.00	9.99	150	214	Vertical	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	10.67	50.99	74.00	23.01	46.12	54.00	7.88	150	6	Horizontal	PASS
2	2487.823	10.29	49.61	74.00	24.39	46.59	54.00	7.41	150	318	Horizontal	PASS
3	2489.77	10.34	50.06	74.00	23.94	47.36	54.00	6.64	150	296	Horizontal	PASS
4	2493.334	10.53	48.90	74.00	25.10	45.45	54.00	8.55	150	152	Horizontal	PASS
5	2497.0135	10.39	49.31	74.00	24.69	46.86	54.00	7.14	150	152	Horizontal	PASS
6	2500	10.20	46.63	74.00	27.37	44.62	54.00	9.38	150	160	Horizontal	PASS

Mode:	BLE 2M-2402
-------	-------------

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	-21.24	36.31	74.00	37.69	34.76	54.00	19.24	150	141	Vertical	PASS
2	2362.16	-20.88	41.76	74.00	32.24	39.79	54.00	14.21	150	126	Vertical	PASS
3	2363.84	-20.87	42.55	74.00	31.45	40.42	54.00	13.58	150	126	Vertical	PASS
4	2366.24	-20.87	42.62	74.00	31.38	37.66	54.00	16.34	150	85	Vertical	PASS
5	2370.96	-20.84	43.47	74.00	30.53	42.50	54.00	11.50	150	82	Vertical	PASS
6	2390	-20.73	36.32	74.00	37.68	33.92	54.00	20.08	150	287	Vertical	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	-21.24	35.58	74.00	38.42	34.48	54.00	19.52	150	44	Horizontal	PASS
2	2319.76	-21.17	38.23	74.00	35.77	34.55	54.00	19.45	150	239	Horizontal	PASS
3	2336.88	-21.05	38.54	74.00	35.46	34.50	54.00	19.50	150	162	Horizontal	PASS
4	2361.84	-20.88	40.50	74.00	33.50	39.17	54.00	14.83	150	147	Horizontal	PASS
5	2370.96	-20.84	40.18	74.00	33.82	35.26	54.00	18.74	150	114	Horizontal	PASS
6	2390	-20.73	36.44	74.00	37.56	33.76	54.00	20.24	150	346	Horizontal	PASS

Mode:	BLE 2M-2480
-------	-------------

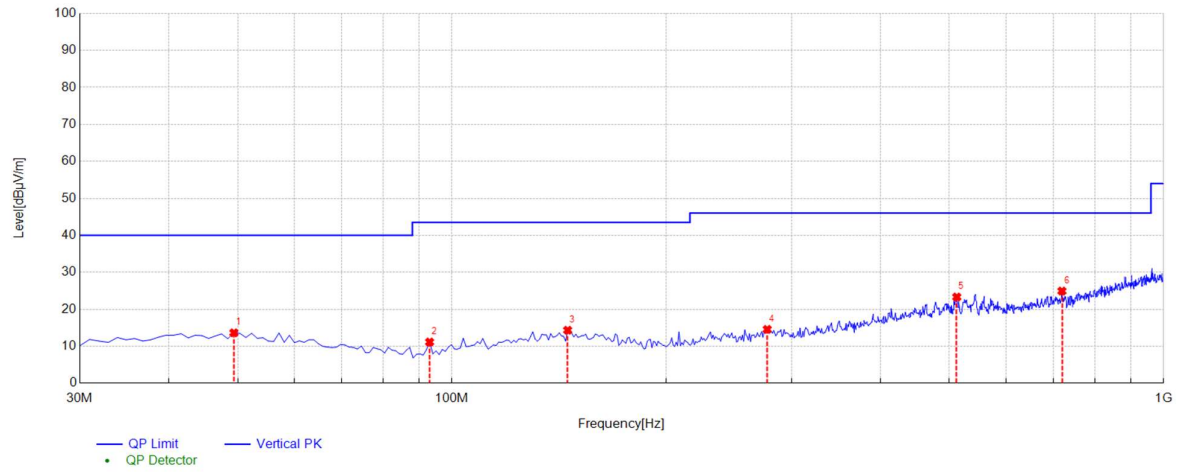
Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	10.67	48.84	74.00	25.16	46.19	54.00	7.81	150	305	Vertical	PASS
2	2488.186	10.28	49.23	74.00	24.77	46.09	54.00	7.91	150	100	Vertical	PASS
3	2490.43	10.37	49.31	74.00	24.69	45.44	54.00	8.56	150	86	Vertical	PASS
4	2493.697	10.56	49.09	74.00	24.91	46.76	54.00	7.24	150	0	Vertical	PASS
5	2497.492	10.33	49.46	74.00	24.54	46.25	54.00	7.75	150	221	Vertical	PASS
6	2500	10.20	47.04	74.00	26.96	44.41	54.00	9.59	150	177	Vertical	PASS

Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	10.67	49.11	74.00	24.89	45.24	54.00	8.76	150	335	Horizontal	PASS
2	2485.315	10.52	50.33	74.00	23.67	47.41	54.00	6.59	150	296	Horizontal	PASS
3	2487.0805	10.39	49.64	74.00	24.36	45.96	54.00	8.04	150	221	Horizontal	PASS
4	2489.473	10.33	50.51	74.00	23.49	46.28	54.00	7.72	150	330	Horizontal	PASS
5	2497.525	10.33	48.65	74.00	25.35	44.94	54.00	9.06	150	112	Horizontal	PASS
6	2500.0000	10.20	48.09	74.00	25.91	44.30	54.00	9.70	150	30	Horizontal	PASS

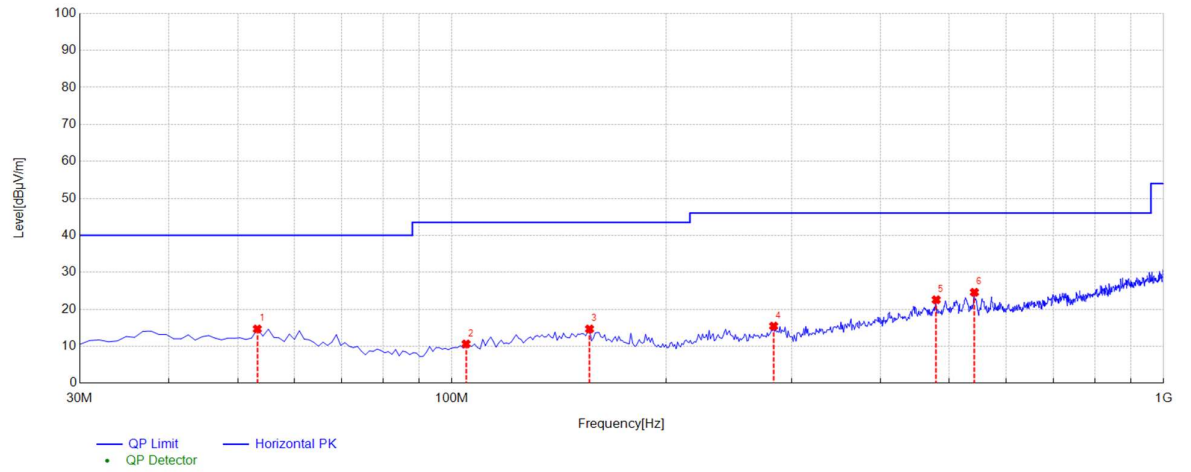
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Appendix I: Spurious emissions



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	49.4000	13.65	-15.93	40.00	26.35	100	240	Vertical	PASS
2	93.0500	11.16	-20.17	43.50	32.34	100	100	Vertical	PASS
3	145.430	14.35	-16.44	43.50	29.15	100	270	Vertical	PASS
4	277.350	14.58	-16.01	46.00	31.42	100	340	Vertical	PASS
5	512.090	23.33	-10.55	46.00	22.67	100	240	Vertical	PASS
6	719.670	24.94	-6.64	46.00	21.06	100	240	Vertical	PASS



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	53.2800	14.69	-16.22	40.00	25.31	100	240	Horizontal	PASS
2	104.690	10.64	-19.02	43.50	32.86	100	290	Horizontal	PASS
3	156.100	14.69	-16.31	43.50	28.81	100	350	Horizontal	PASS
4	283.170	15.48	-15.86	46.00	30.52	100	210	Horizontal	PASS
5	479.110	22.58	-11.25	46.00	23.42	100	230	Horizontal	PASS
6	542.160	24.60	-9.98	46.00	21.40	100	210	Horizontal	PASS

Mode:	BLE 1M-2402
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1316	44.59	2.28	74.00	29.41	150	112	Vertical	PASS
2	1806	44.98	4.92	74.00	29.02	150	67	Vertical	PASS
3	3941.24	50.79	-17.15	74.00	23.21	150	138	Vertical	PASS
4	5272.18	45.05	-13.95	74.00	28.95	150	245	Vertical	PASS
5	6582.13	47.64	-12.31	74.00	26.36	150	289	Vertical	PASS
6	10416.0	46.93	-7.33	74.00	27.07	150	38	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1340	43.34	2.14	74.00	30.66	150	168	Horizontal	PASS
2	1820	45.06	5.06	74.00	28.94	150	103	Horizontal	PASS
3	4942.44	44.38	-15.14	74.00	29.62	150	272	Horizontal	PASS
4	6579.13	43.83	-12.29	74.00	30.17	150	298	Horizontal	PASS
5	10245.2	46.81	-7.39	74.00	27.19	150	50	Horizontal	PASS
6	13362.7	48.97	-2.86	74.00	25.03	150	19	Horizontal	PASS

Mode:	BLE 1M-2440
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1318	44.73	2.27	74.00	29.27	150	111	Vertical	PASS
2	1888	45.50	5.61	74.00	28.50	150	250	Vertical	PASS
3	3948	44.38	-17.25	74.00	29.62	150	54	Vertical	PASS
4	5265	47.16	-14.01	74.00	26.84	150	116	Vertical	PASS
5	6588	50.07	-12.35	74.00	23.93	150	285	Vertical	PASS
6	11898	48.89	-4.33	74.00	25.11	150	142	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1248	43.23	2.18	74.00	30.77	150	270	Horizontal	PASS
2	1844	45.45	5.29	74.00	28.55	150	231	Horizontal	PASS
3	4881	45.72	-14.63	74.00	28.28	150	266	Horizontal	PASS
4	7554	45.78	-11.88	74.00	28.22	150	132	Horizontal	PASS
5	10050	45.96	-7.63	74.00	28.04	150	213	Horizontal	PASS
6	13575	48.94	-2.62	74.00	25.06	150	348	Horizontal	PASS

Mode:	BLE 1M-2480
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1316	45.39	2.28	74.00	28.61	150	111	Vertical	PASS
2	1886	45.15	5.59	74.00	28.85	150	288	Vertical	PASS
3	4737	50.53	-14.66	74.00	23.47	150	258	Vertical	PASS
4	7092	47.69	-11.69	74.00	26.31	150	292	Vertical	PASS
5	11181	48.02	-5.62	74.00	25.98	150	39	Vertical	PASS
6	14349	49.44	-0.72	74.00	24.56	150	81	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1318	42.54	2.27	74.00	31.46	150	148	Horizontal	PASS
2	1888	45.96	5.61	74.00	28.04	150	86	Horizontal	PASS
3	4959	47.98	-15.23	74.00	26.02	150	244	Horizontal	PASS
4	6222	45.06	-12.48	74.00	28.94	150	354	Horizontal	PASS
5	9744	46.02	-7.74	74.00	27.98	150	191	Horizontal	PASS
6	11895	48.56	-4.34	74.00	25.44	150	360	Horizontal	PASS

Mode:	BLE 2M-2402
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1318	46.32	2.27	74.00	27.68	150	128	Vertical	PASS
2	1808	44.50	4.93	74.00	29.50	150	140	Vertical	PASS
3	4743	48.29	-14.56	74.00	25.71	150	111	Vertical	PASS
4	6564	47.04	-12.17	74.00	26.96	150	294	Vertical	PASS
5	9000	45.81	-9.75	74.00	28.19	150	4	Vertical	PASS
6	11823	48.08	-4.49	74.00	25.92	150	296	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1306	42.59	2.34	74.00	31.41	150	191	Horizontal	PASS
2	2012	45.82	5.95	74.00	28.18	150	273	Horizontal	PASS
3	4803	44.98	-14.80	74.00	29.02	150	199	Horizontal	PASS
4	5955	44.64	-12.05	74.00	29.36	150	91	Horizontal	PASS
5	7626	44.81	-11.40	74.00	29.19	150	184	Horizontal	PASS
6	12762	48.03	-3.57	74.00	25.97	150	290	Horizontal	PASS

Mode:	BLE 2M-2440
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1318	44.09	2.27	74.00	29.91	150	140	Vertical	PASS
2	1898	45.61	5.67	74.00	28.39	150	0	Vertical	PASS
3	4878	45.65	-14.70	74.00	28.35	150	67	Vertical	PASS
4	6573	49.77	-12.24	74.00	24.23	150	285	Vertical	PASS
5	9999	46.02	-7.60	74.00	27.98	150	306	Vertical	PASS
6	13338	48.35	-2.95	74.00	25.65	150	240	Vertical	PASS

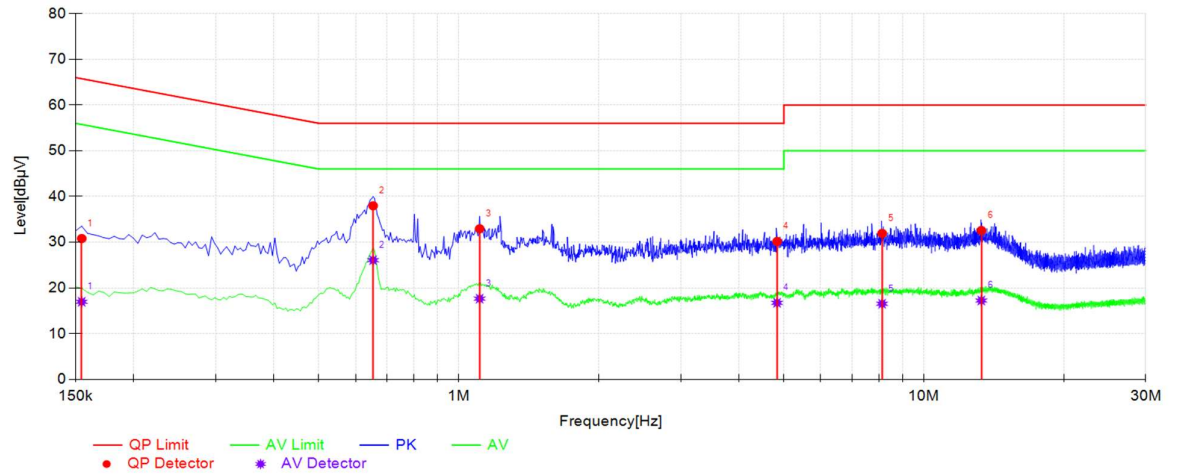
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1340	42.28	2.14	74.00	31.72	150	344	Horizontal	PASS
2	1864	46.11	5.45	74.00	27.89	150	292	Horizontal	PASS
3	4881	45.29	-14.63	74.00	28.71	150	360	Horizontal	PASS
4	6642	44.21	-12.23	74.00	29.79	150	126	Horizontal	PASS
5	9225	45.25	-8.97	74.00	28.75	150	329	Horizontal	PASS
6	12120	47.76	-4.08	74.00	26.24	150	4	Horizontal	PASS

Mode:	BLE 2M-2480
-------	-------------

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1318	45.08	2.27	74.00	28.92	150	134	Vertical	PASS
2	1644	43.63	2.71	74.00	30.37	150	60	Vertical	PASS
3	3948	44.96	-17.25	74.00	29.04	150	53	Vertical	PASS
4	4959	45.74	-15.23	74.00	28.26	150	245	Vertical	PASS
5	6579	44.96	-12.28	74.00	29.04	150	299	Vertical	PASS
6	11304	47.31	-5.71	74.00	26.69	150	257	Vertical	PASS

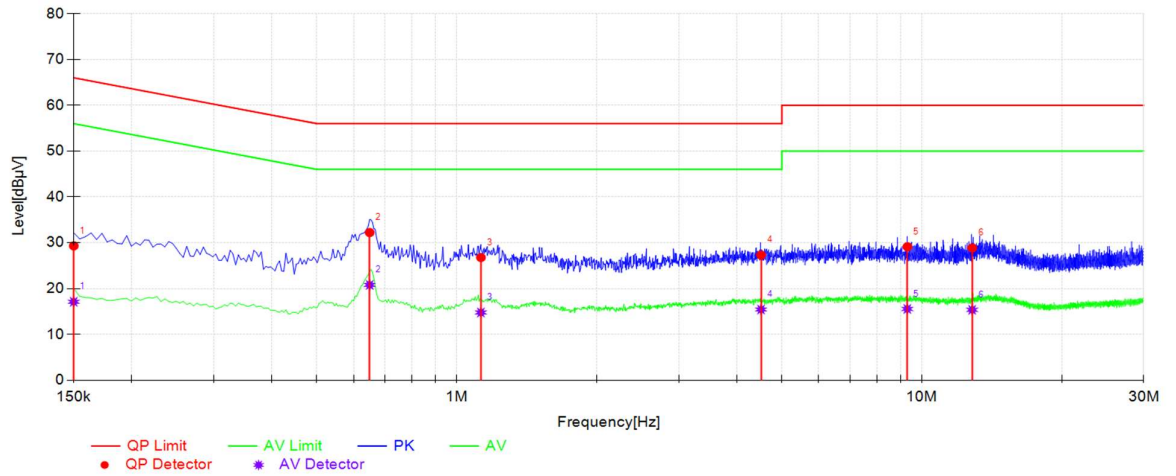
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1350	43.52	2.08	74.00	30.48	150	66	Horizontal	PASS
2	1846	44.68	5.31	74.00	29.32	150	41	Horizontal	PASS
3	4959	47.53	-15.23	74.00	26.47	150	10	Horizontal	PASS
4	6333	45.29	-12.35	74.00	28.71	150	275	Horizontal	PASS
5	8340	45.26	-10.14	74.00	28.74	150	102	Horizontal	PASS
6	13563	48.85	-2.42	74.00	25.15	150	72	Horizontal	PASS

Appendix J: Conducted emission AC power port



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.1545	11.65	30.81	65.75	34.94	16.98	55.75	38.77	L1	PASS
2	0.654	11.66	37.98	56.00	18.02	26.08	46.00	19.92	L1	PASS
3	1.1085	11.66	32.95	56.00	23.05	17.66	46.00	28.34	L1	PASS
4	4.8345	11.74	30.17	56.00	25.83	16.75	46.00	29.25	L1	PASS
5	8.133	11.84	31.94	60.00	28.06	16.55	50.00	33.45	L1	PASS
6	13.2945	11.94	32.58	60.00	27.42	17.25	50.00	32.75	L1	PASS



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.15	11.65	29.32	66.00	36.68	17.12	56.00	38.88	N	PASS
2	0.6495	11.66	32.24	56.00	23.76	20.80	46.00	25.20	N	PASS
3	1.1265	11.66	26.78	56.00	29.22	14.78	46.00	31.22	N	PASS
4	4.5105	11.81	27.33	56.00	28.67	15.43	46.00	30.57	N	PASS
5	9.3075	11.85	29.13	60.00	30.87	15.55	50.00	34.45	N	PASS
6	12.831	11.92	28.88	60.00	31.12	15.36	50.00	34.64	N	PASS