

Appendix for BLE

Test Report No.:CTL2207053064-WF04

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	0.716	2401.808	2402.524	0.5	PASS
	Ant2	2402	0.716	2401.804	2402.520	0.5	PASS
	Ant1	2440	0.716	2439.808	2440.524	0.5	PASS
	Ant2	2440	0.712	2439.812	2440.524	0.5	PASS
	Ant1	2480	0.716	2479.808	2480.524	0.5	PASS
	Ant2	2480	0.720	2479.808	2480.528	0.5	PASS
BLE_BT5.0	Ant1	2402	1.188	2401.574	2402.762	0.5	PASS
	Ant2	2402	1.188	2401.574	2402.762	0.5	PASS
	Ant1	2440	1.188	2439.574	2440.762	0.5	PASS
	Ant2	2440	1.188	2439.574	2440.762	0.5	PASS
	Ant1	2480	1.182	2479.580	2480.762	0.5	PASS
	Ant2	2480	1.182	2479.580	2480.762	0.5	PASS

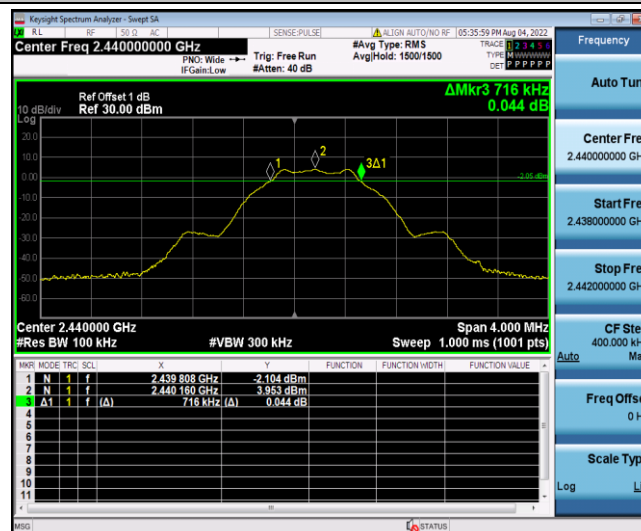
Test Graphs



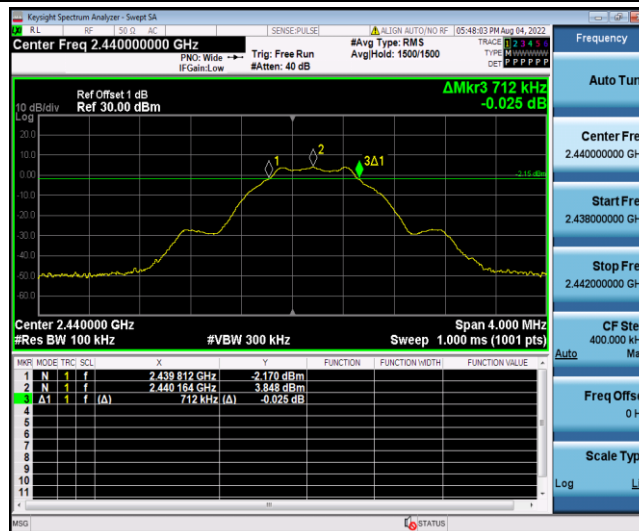
BLE_BT4.0_Ant1_2402



BLE_BT4.0_Ant2_2402



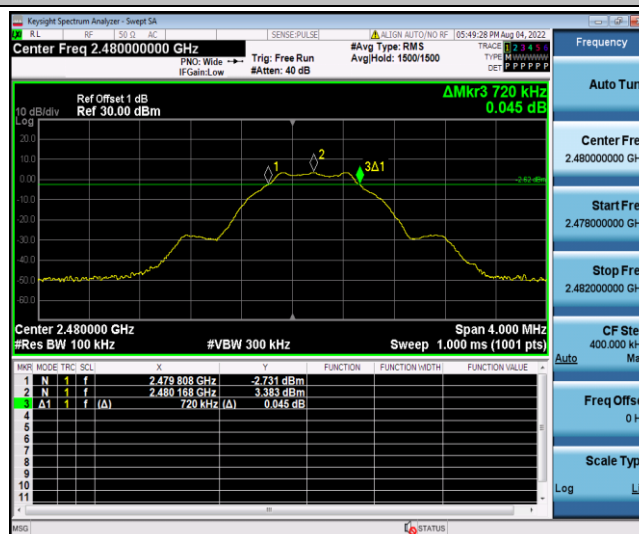
BLE_BT4.0_Ant1_2440



BLE_BT4.0_Ant2_2440



BLE_BT4.0_Ant1_2480



BLE_BT4.0_Ant2_2480



BLE BT5.0_Ant1_2402



BLE_BT5.0_Ant2_2402



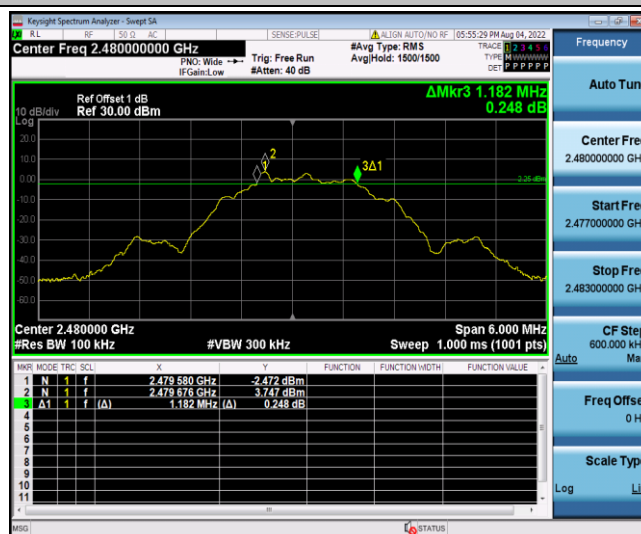
BLE BT5.0_Ant1_2440



BLE_BT5.0_Ant2_2440



BLE_BT5.0_Ant1_2480

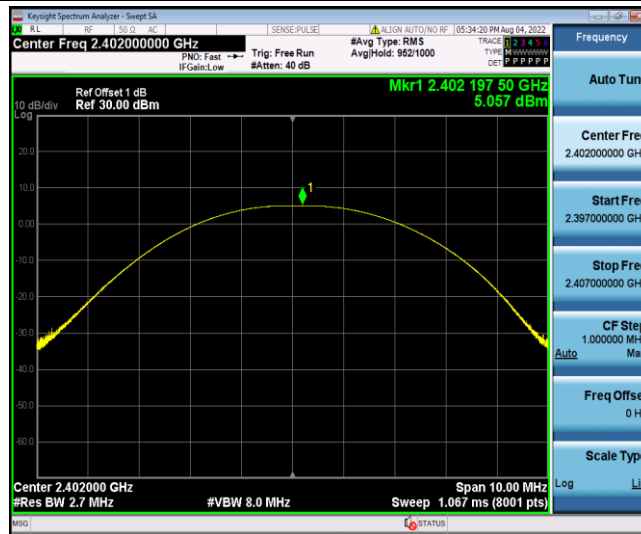


BLE_BT5.0_Ant2_2480

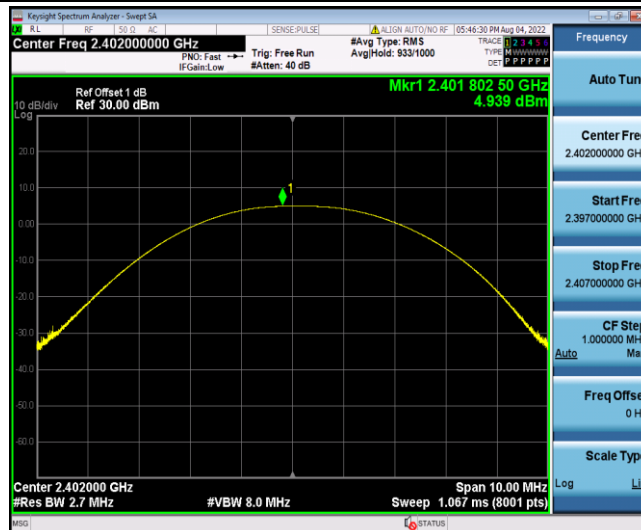
Appendix B: Maximum conducted output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	5.06	≤30	PASS
	Ant2	2402	4.94	≤30	PASS
	Ant1	2440	4.81	≤30	PASS
	Ant2	2440	4.7	≤30	PASS
	Ant1	2480	4.4	≤30	PASS
	Ant2	2480	4.25	≤30	PASS
BLE_BT5.0	Ant1	2402	5.04	≤30	PASS
	Ant2	2402	4.96	≤30	PASS
	Ant1	2440	4.81	≤30	PASS
	Ant2	2440	4.74	≤30	PASS
	Ant1	2480	4.4	≤30	PASS
	Ant2	2480	4.25	≤30	PASS

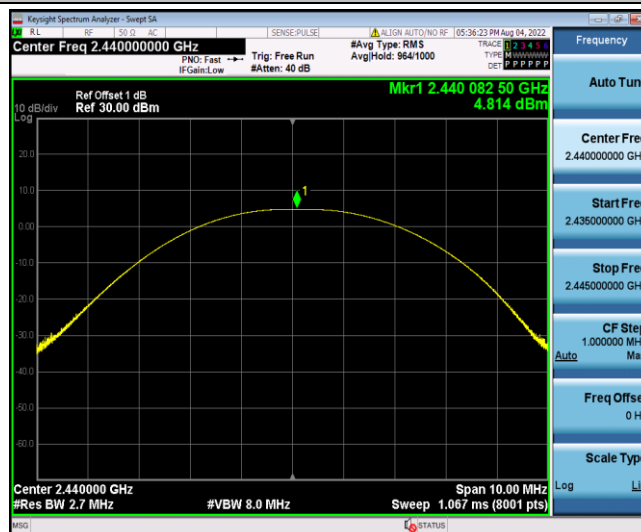
Test Graphs



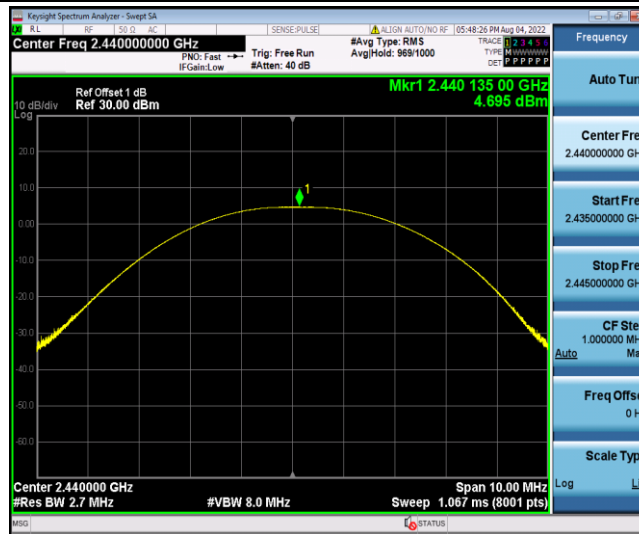
BLE_BT4.0_Ant1_2402



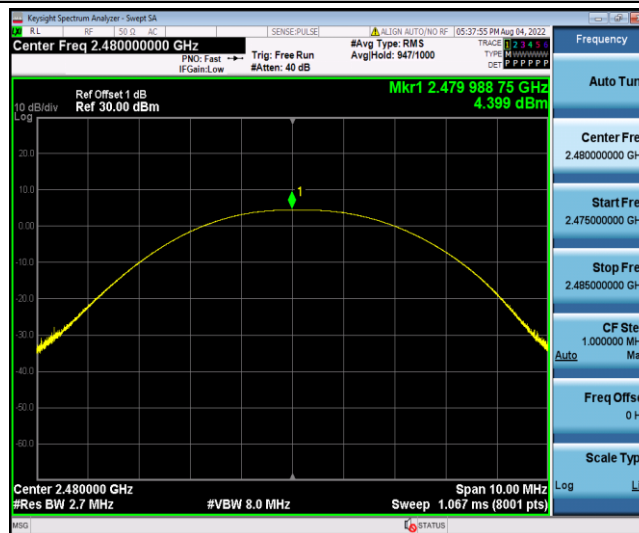
BLE_BT4.0_Ant2_2402



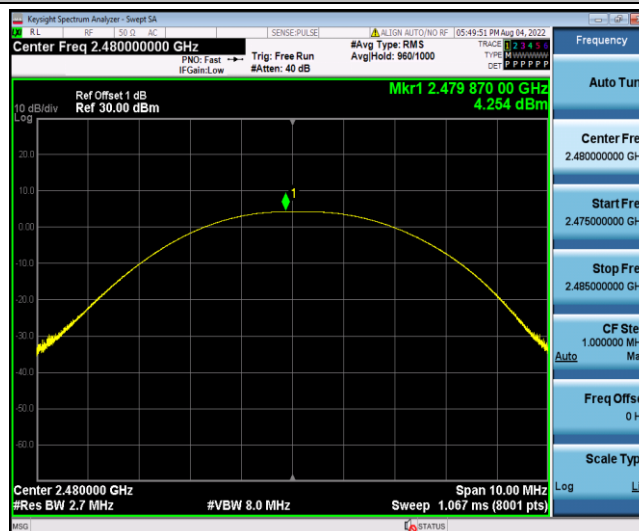
BLE_BT4.0_Ant1_2440



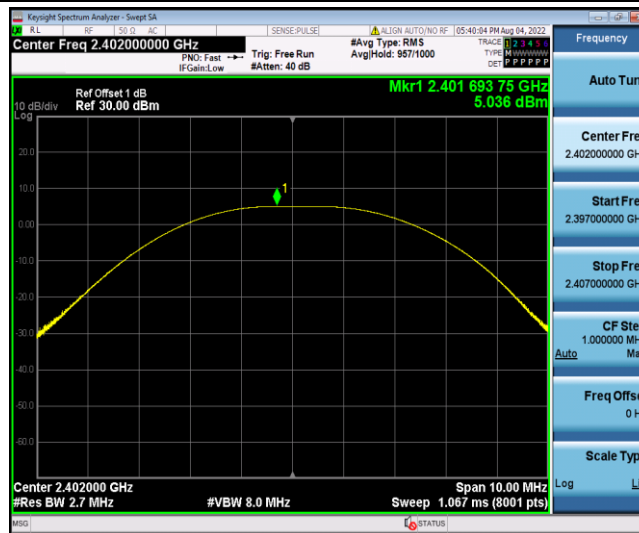
BLE_BT4.0_Ant2_2440



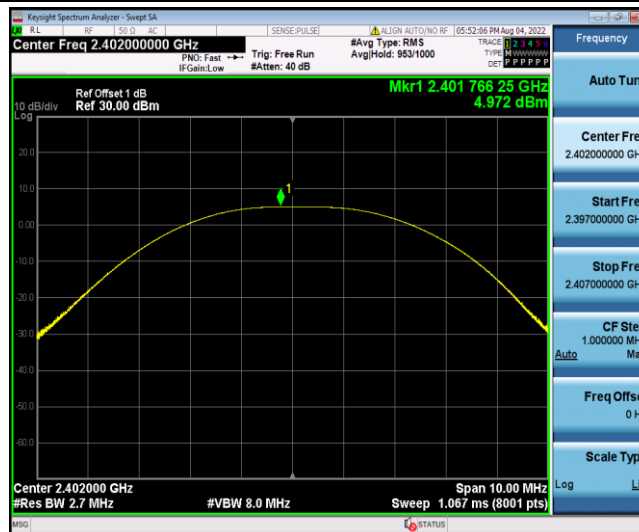
BLE_BT4.0_Ant1_2480



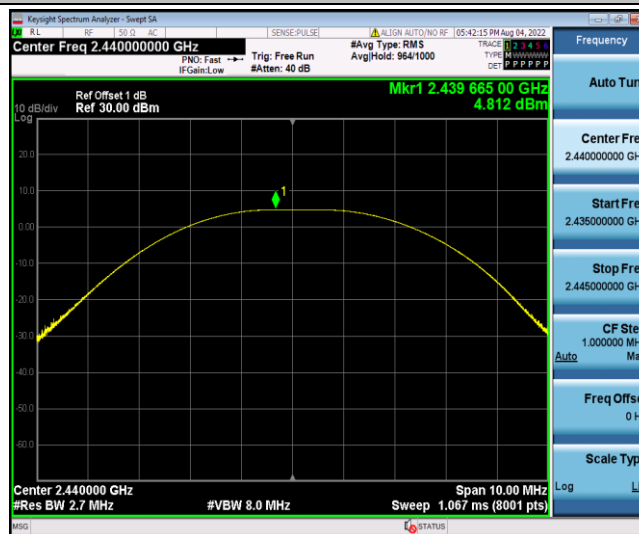
BLE_BT4.0_Ant2_2480



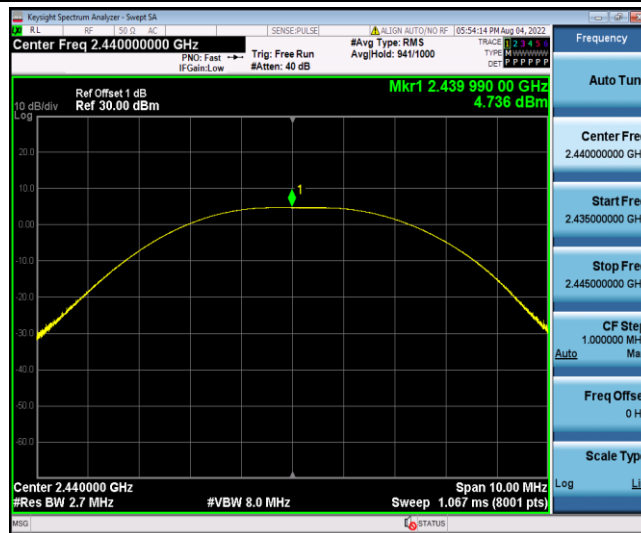
BLE BT5.0_Ant1_2402



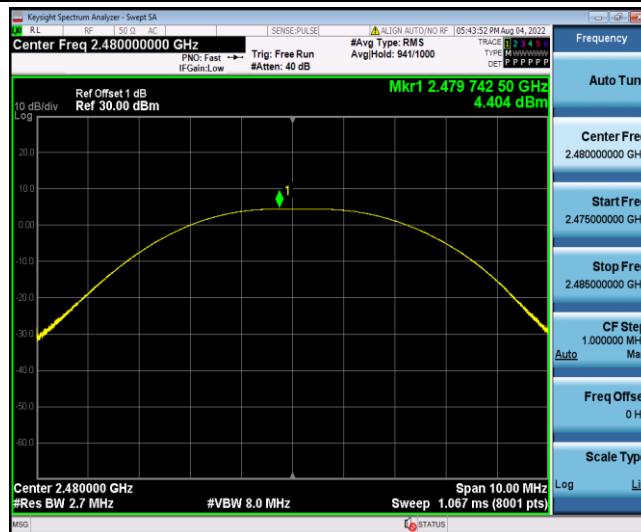
BLE_BT5.0_Ant2_2402



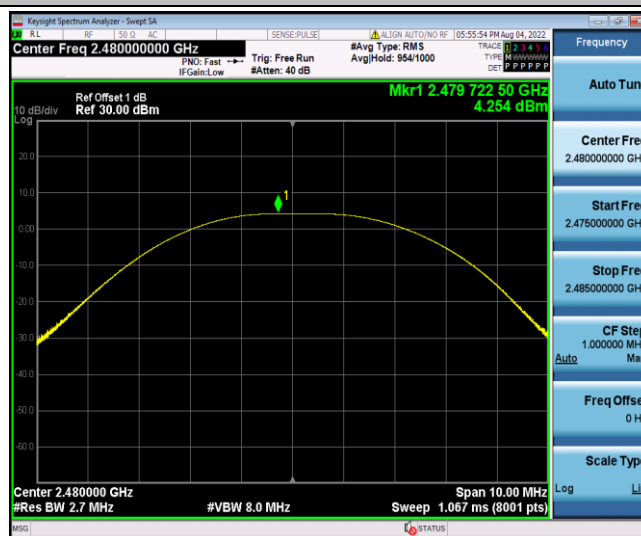
BLE BT5.0_Ant1_2440



BLE_BT5.0_Ant2_2440



BLE_BT5.0_Ant1_2480



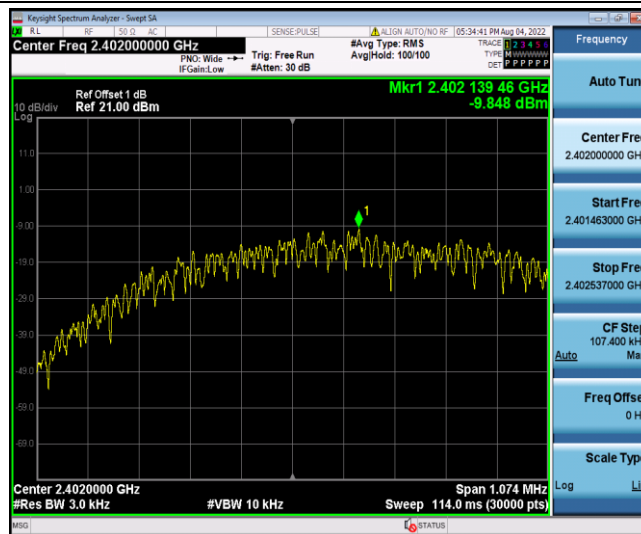
BLE_BT5.0_Ant2_2480

Appendix C: Maximum power spectral density

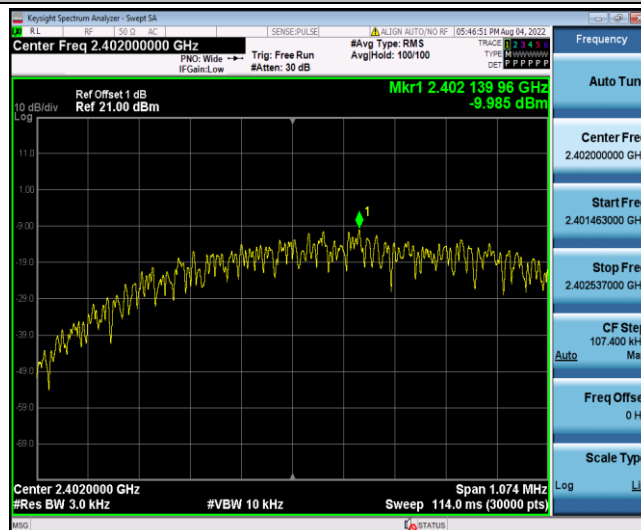
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-9.85	≤8	PASS
	Ant2	2402	-9.99	≤8	PASS
	Ant1	2440	-10.17	≤8	PASS
	Ant2	2440	-10.27	≤8	PASS
	Ant1	2480	-10.71	≤8	PASS
	Ant2	2480	-10.79	≤8	PASS
BLE_BT5.0	Ant1	2402	-13.37	≤8	PASS
	Ant2	2402	-13.44	≤8	PASS
	Ant1	2440	-13.58	≤8	PASS
	Ant2	2440	-13.67	≤8	PASS
	Ant1	2480	-13.94	≤8	PASS
	Ant2	2480	-14.14	≤8	PASS

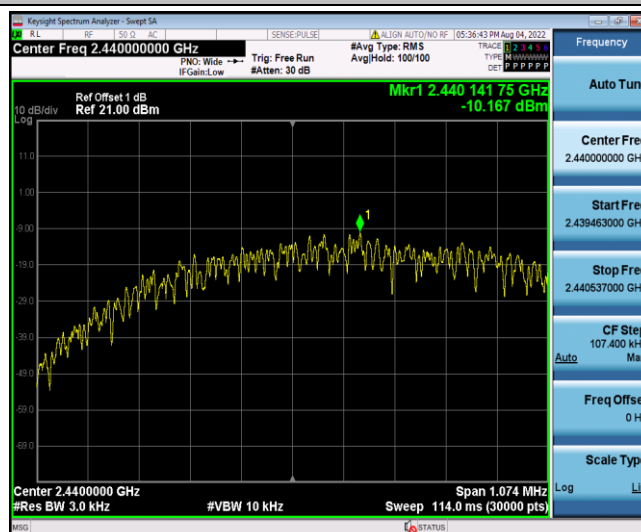
Test Graphs



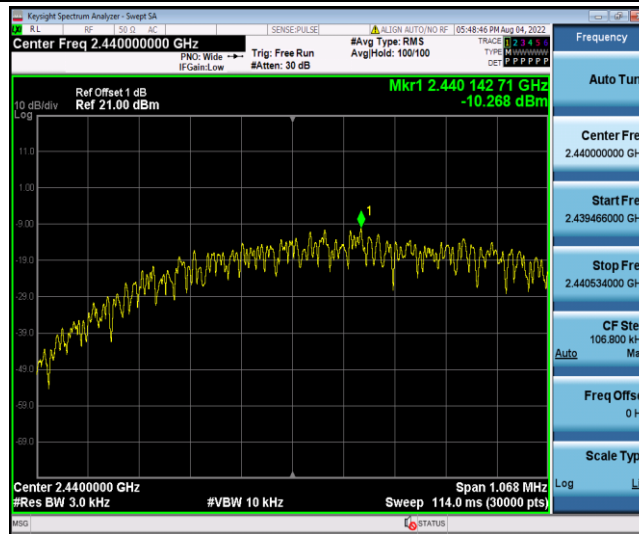
BLE_BT4.0_Ant1_2402



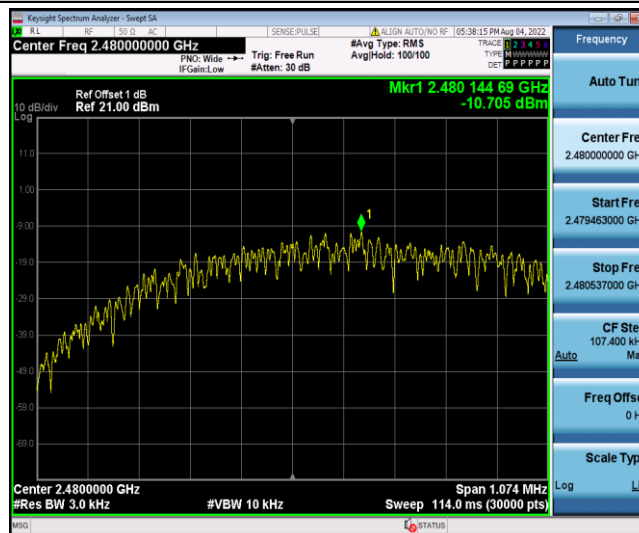
BLE_BT4.0_Ant2_2402



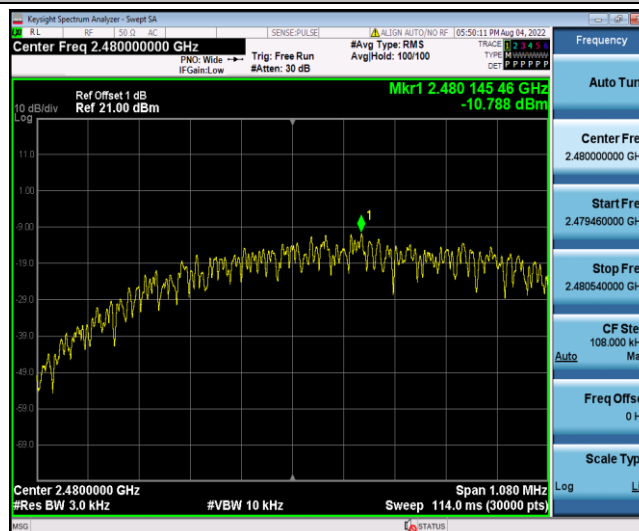
BLE_BT4.0_Ant1_2440



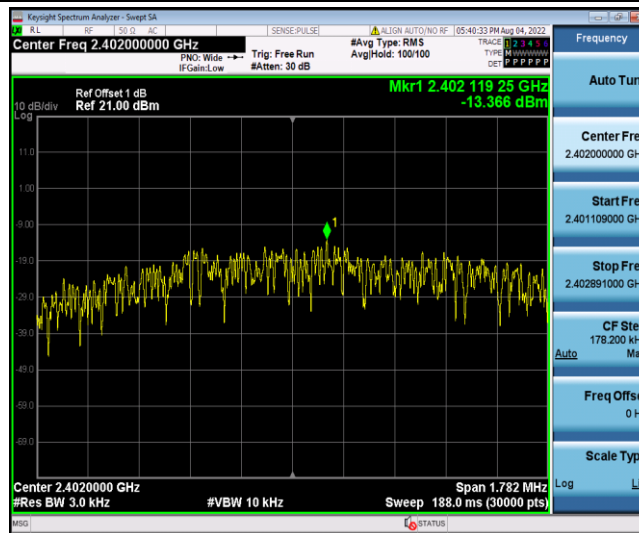
BLE_BT4.0_Ant2_2440



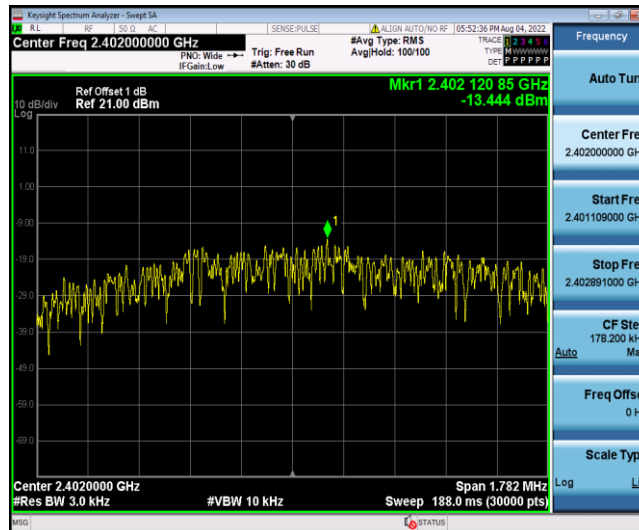
BLE_BT4.0_Ant1_2480



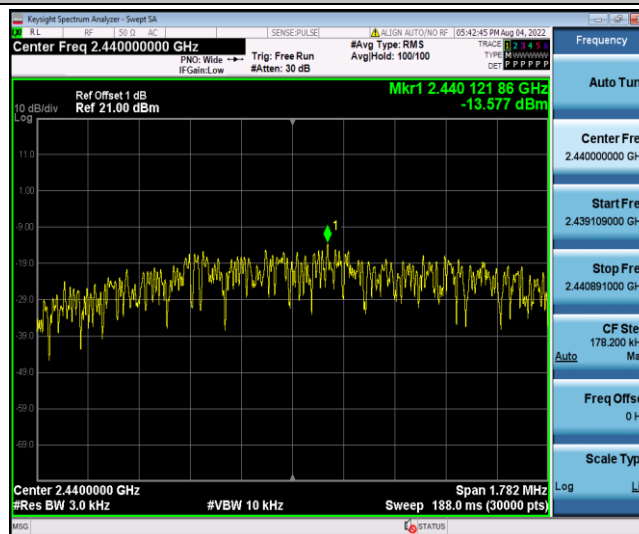
BLE_BT4.0_Ant2_2480



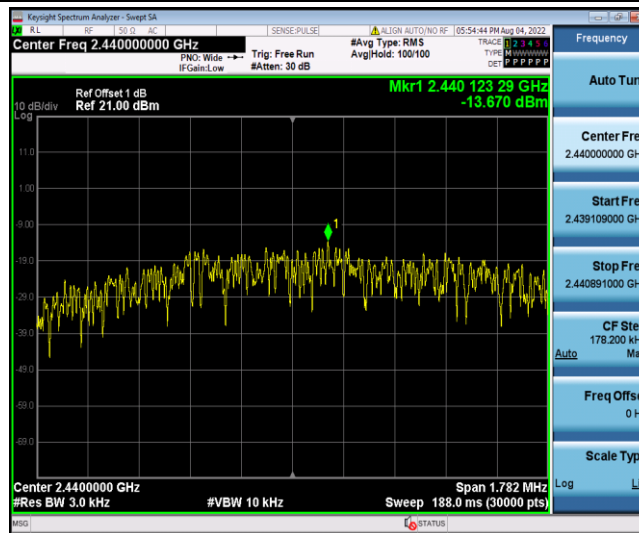
BLE BT5.0_Ant1_2402



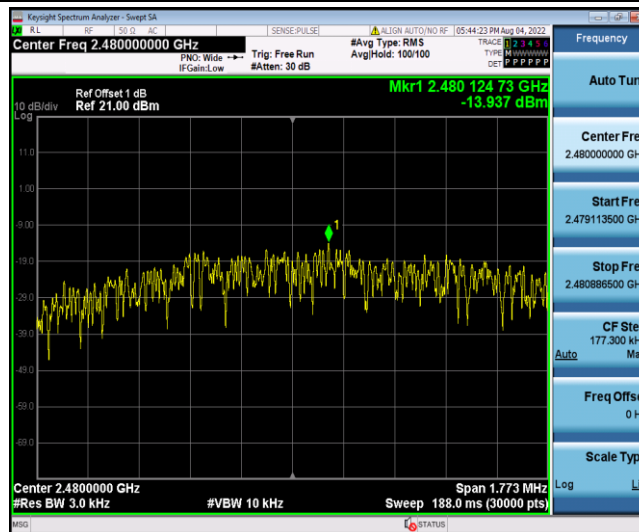
BLE_BT5.0_Ant2_2402



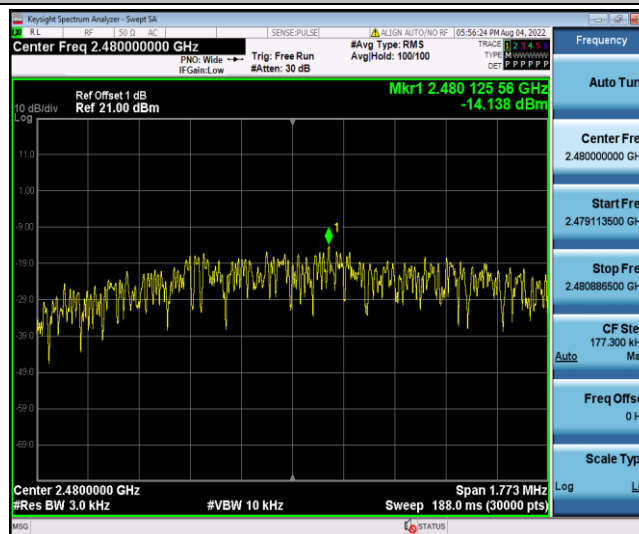
BLE BT5.0_Ant1_2440



BLE_BT5.0_Ant2_2440



BLE_BT5.0_Ant1_2480



BLE_BT5.0_Ant2_2480

Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	4.52	-47.1	≤ -15.48	PASS
	Ant2	Low	2402	4.41	-47.02	≤ -15.59	PASS
	Ant1	High	2480	3.87	-54.19	≤ -16.14	PASS
	Ant2	High	2480	3.72	-54.4	≤ -16.28	PASS
BLE_BT5.0	Ant1	Low	2402	4.70	-35.94	≤ -15.3	PASS
	Ant2	Low	2402	4.60	-36.18	≤ -15.4	PASS
	Ant1	High	2480	4.05	-43.47	≤ -15.95	PASS
	Ant2	High	2480	3.89	-43.48	≤ -16.11	PASS