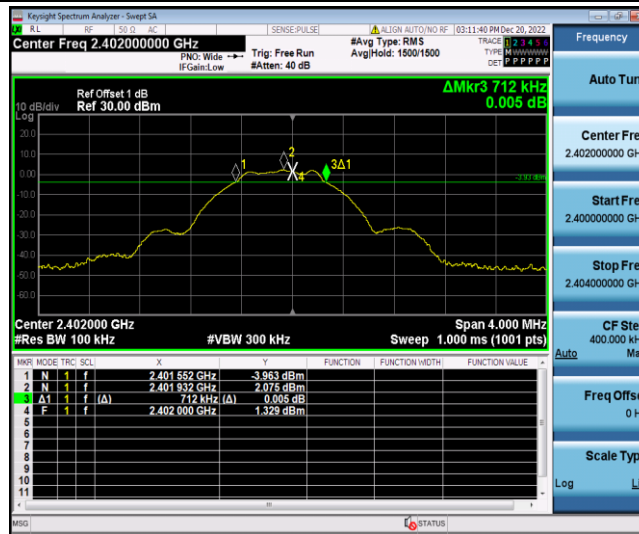


Annex for BLE

Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1Mbps	Ant1	2402	0.712	2401.552	2402.264	0.5	PASS
		2440	0.720	2439.548	2440.268	0.5	PASS
		2480	0.716	2479.548	2480.264	0.5	PASS
BLE_2Mbps	Ant1	2402	1.194	2401.316	2402.510	0.5	PASS
		2440	1.194	2439.322	2440.516	0.5	PASS
		2480	1.194	2479.316	2480.510	0.5	PASS

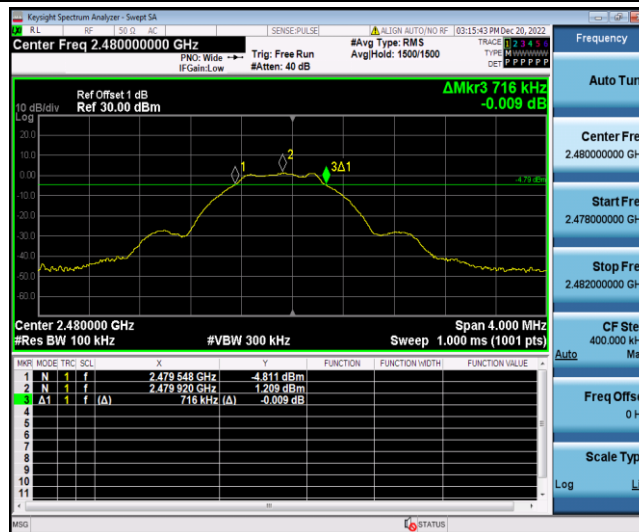
Test Graphs



BLE_1Mbps_Ant1_2402



BLE_1Mbps_Ant1_2440



BLE_1Mbps_Ant1_2480



BLE_2Mbps_Ant1_2402



BLE_2Mbps_Ant1_2440



BLE_2Mbps_Ant1_2480

Appendix B: Occupied Channel Bandwidth

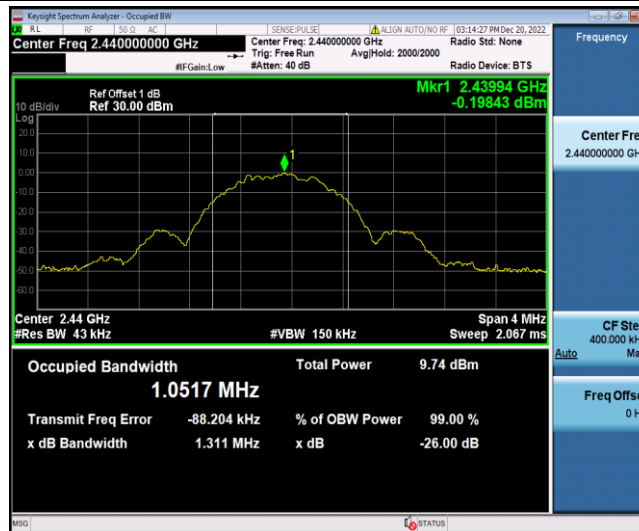
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1Mbps	Ant1	2402	1.0539	2401.383	2402.437	---	PASS
		2440	1.0517	2439.386	2440.438	---	PASS
		2480	1.0512	2479.381	2480.433	---	PASS
BLE_2Mbps	Ant1	2402	2.0728	2400.881	2402.954	---	PASS
		2440	2.0728	2438.884	2440.956	---	PASS
		2480	2.0721	2478.879	2480.951	---	PASS

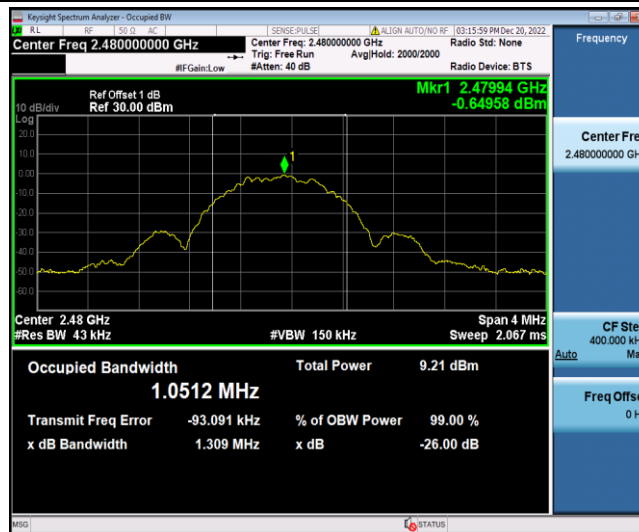
Test Graphs



BLE_1Mbps_Ant1_2402



BLE_1Mbps_Ant1_2440



BLE_1Mbps_Ant1_2480



BLE_2Mbps_Ant1_2402



BLE_2Mbps_Ant1_2440



BLE_2Mbps_Ant1_2480

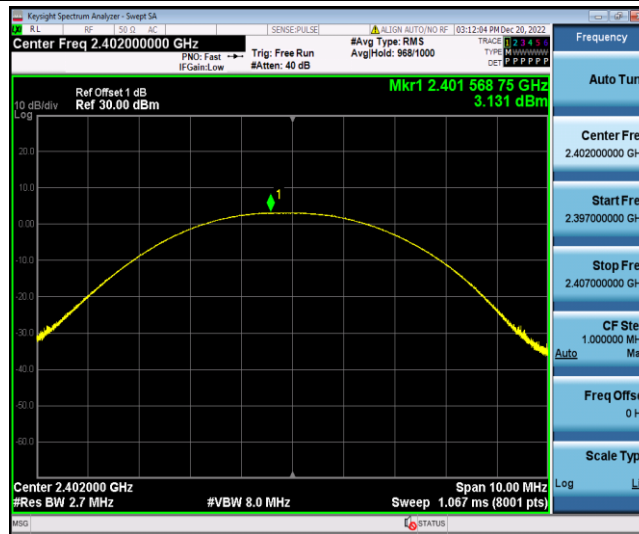
Appendix C: Maximum conducted output power

Test Result

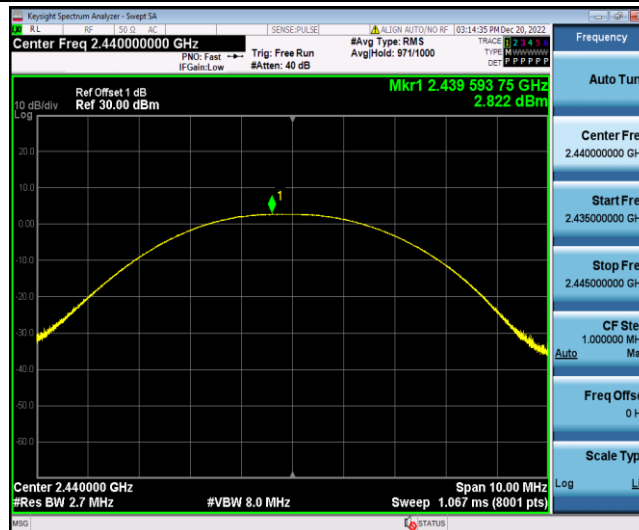
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1Mbps	Ant1	2402	3.13	≤30	PASS
		2440	2.82	≤30	PASS
		2480	2.26	≤30	PASS
BLE_2Mbps	Ant1	2402	3.03	≤30	PASS
		2440	2.75	≤30	PASS
		2480	2.14	≤30	PASS

TestMode	Antenna	Channel	Conducted output power [dBm]	Antenna gain(dBi)	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1Mbps	Ant1	2402	3.13	3	6.13	≤36.02	PASS
		2440	2.82	3	5.82	≤36.02	PASS
		2480	2.26	3	5.26	≤36.02	PASS
BLE_2Mbps	Ant1	2402	3.03	3	6.03	≤36.02	PASS
		2440	2.75	3	5.75	≤36.02	PASS
		2480	2.14	3	5.14	≤36.02	PASS

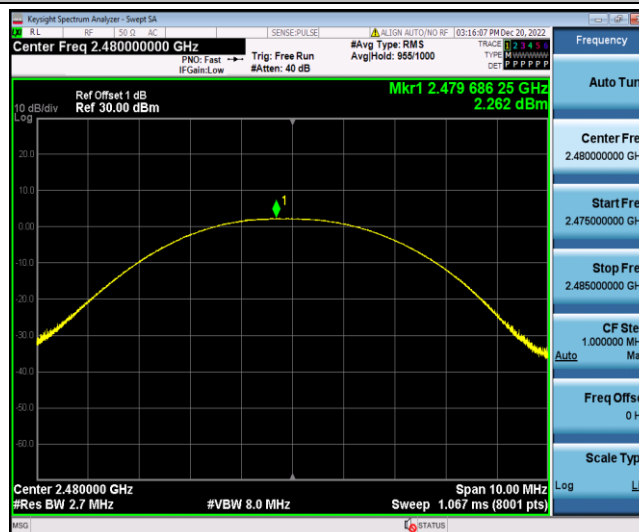
Test Graphs



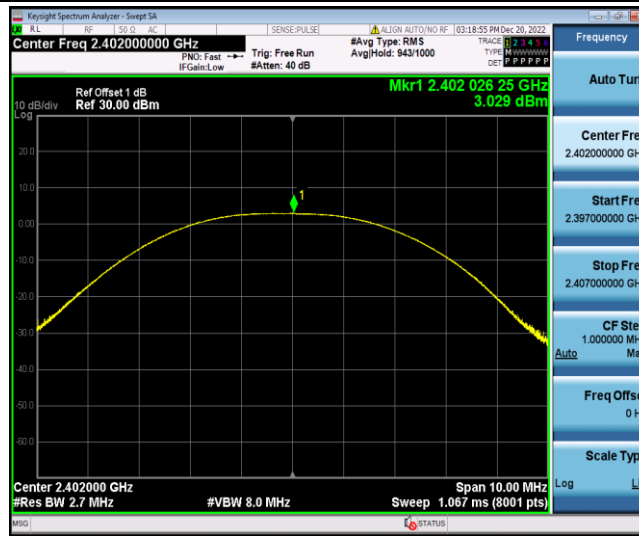
BLE_1Mbps_Ant1_2402



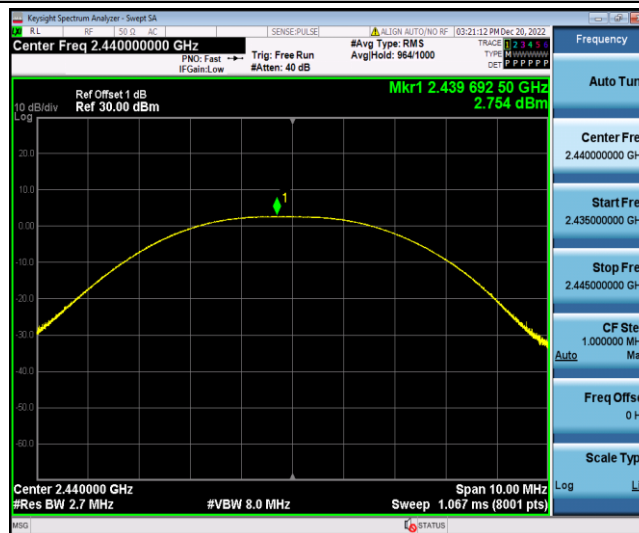
BLE_1Mbps_Ant1_2440



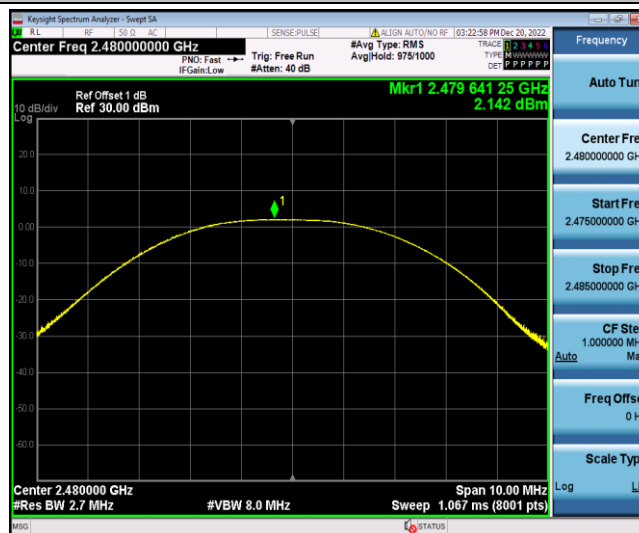
BLE_1Mbps_Ant1_2480



BLE_2Mbps_Ant1_2402



BLE_2Mbps_Ant1_2440



BLE_2Mbps_Ant1_2480

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1Mbps	Ant1	2402	-12.79	≤8	PASS
		2440	-12.92	≤8	PASS
		2480	-13.54	≤8	PASS
BLE_2Mbps	Ant1	2402	-16.22	≤8	PASS
		2440	-16.45	≤8	PASS
		2480	-17.27	≤8	PASS

Test Graphs



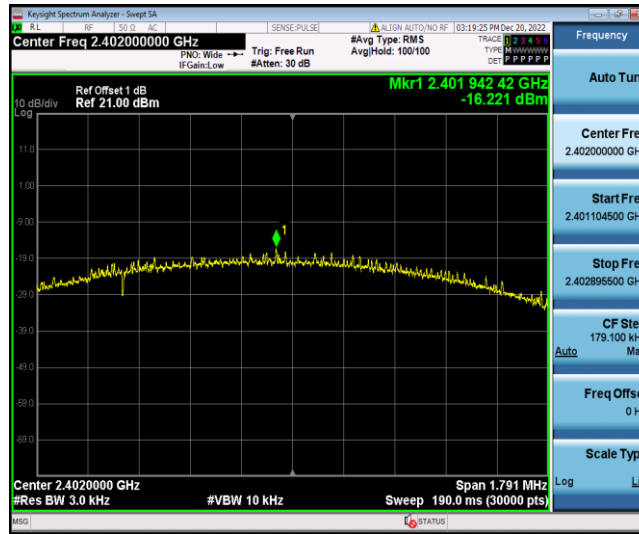
BLE_1Mbps_Ant1_2402



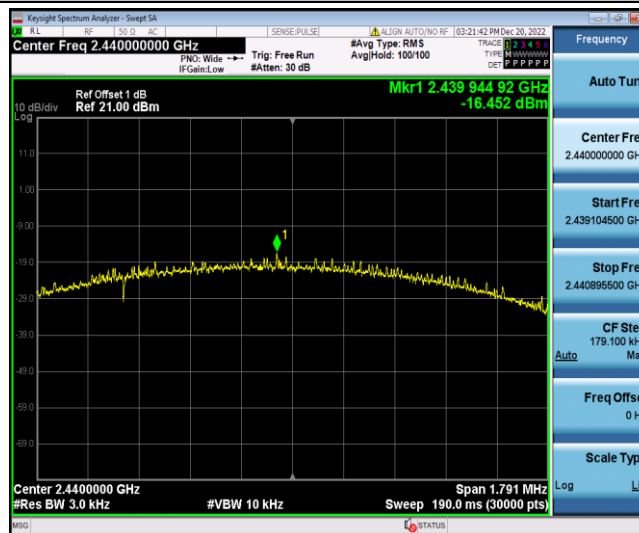
BLE_1Mbps_Ant1_2440



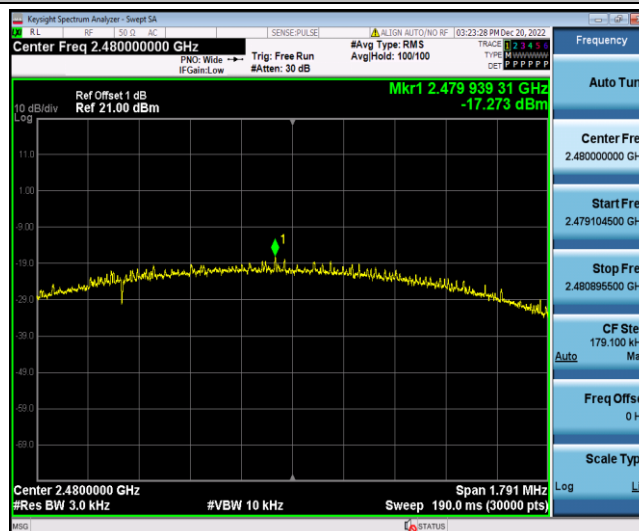
BLE_1Mbps_Ant1_2480



BLE_2Mbps_Ant1_2402



BLE_2Mbps_Ant1_2440



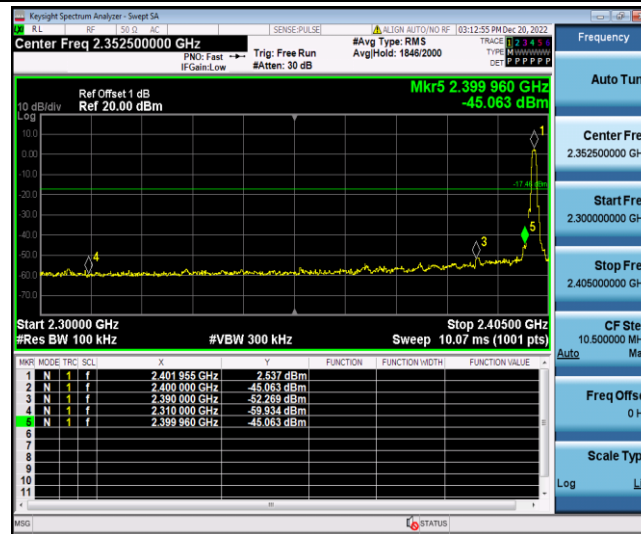
BLE_2Mbps_Ant1_2480

Appendix E: Band edge measurements

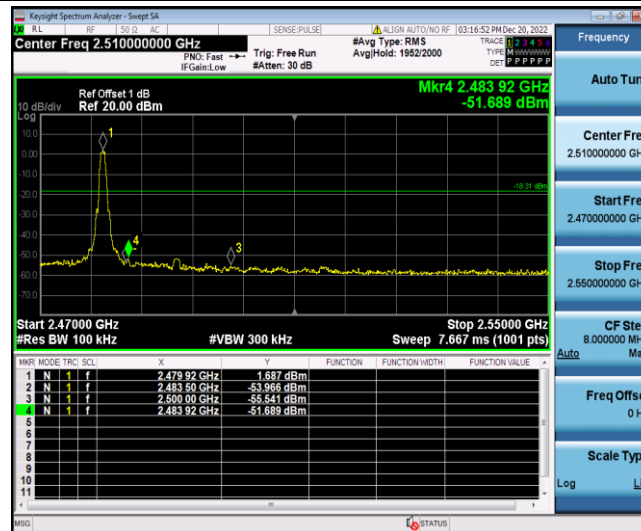
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1Mbps	Ant1	Low	2402	2.54	-45.06	≤-17.46	PASS
		High	2480	1.69	-51.69	≤-18.31	PASS
BLE_2Mbps	Ant1	Low	2402	2.05	-29.83	≤-17.95	PASS
		High	2480	1.13	-52.11	≤-18.87	PASS

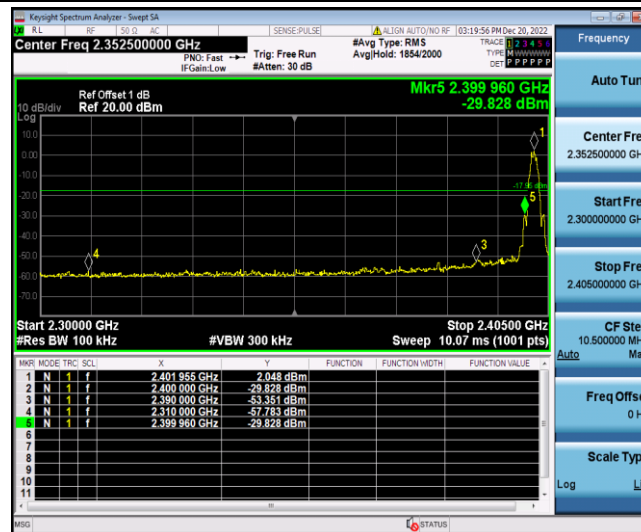
Test Graphs



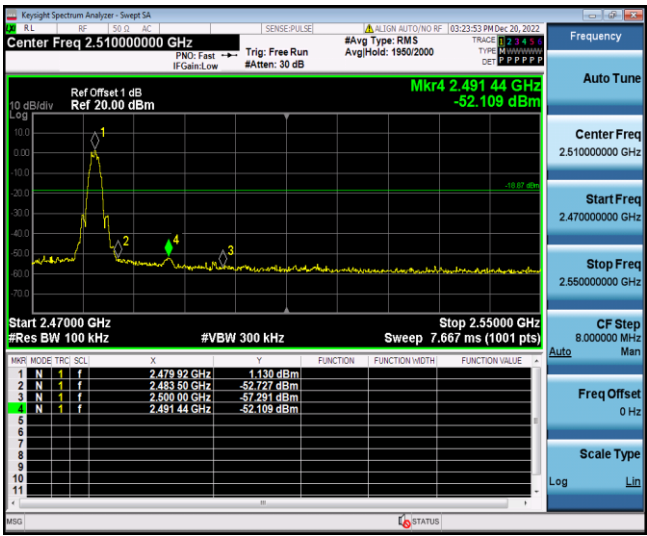
BLE_1Mbps_Ant1_Low_2402



BLE_1Mbps_Ant1_High_2480



BLE_2Mbps_Ant1_Low_2402



BLE_2Mbps_Ant1_High_2480

Appendix F: Conducted Spurious Emission

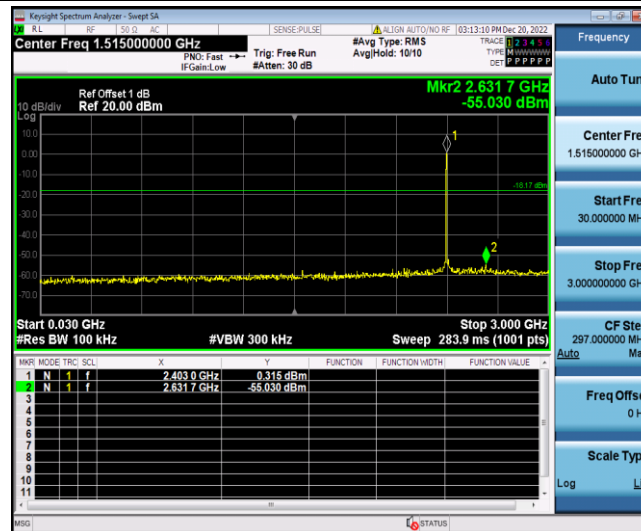
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1Mbps	Ant1	2402	Reference	1.83	1.83	---	PASS
			30~3000	1.83	-55.03	≤-18.17	PASS
			3000~26500	1.83	-63.01	≤-18.17	PASS
		2440	Reference	1.71	1.71	---	PASS
			30~3000	1.71	-52.08	≤-18.29	PASS
			3000~26500	1.71	-61.7	≤-18.29	PASS
		2480	Reference	1.10	1.10	---	PASS
			30~3000	1.10	-54.96	≤-18.9	PASS
			3000~26500	1.10	-64.64	≤-18.9	PASS
BLE_2Mbps	Ant1	2402	Reference	1.09	1.09	---	PASS
			30~3000	1.09	-55.69	≤-18.91	PASS
			3000~26500	1.09	-60.26	≤-18.91	PASS
		2440	Reference	0.69	0.69	---	PASS
			30~3000	0.69	-55.53	≤-19.31	PASS
			3000~26500	0.69	-61.74	≤-19.31	PASS
		2480	Reference	0.46	0.46	---	PASS
			30~3000	0.46	-54.87	≤-19.54	PASS
			3000~26500	0.46	-64.88	≤-19.54	PASS

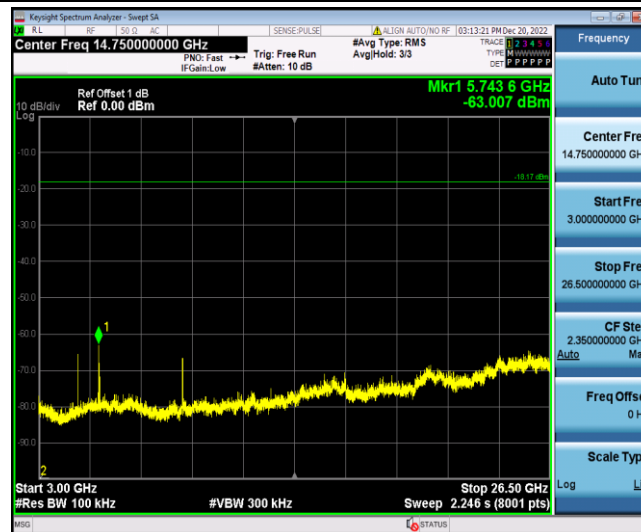
Test Graphs



BLE_1Mbps_Ant1_2402_0~Reference



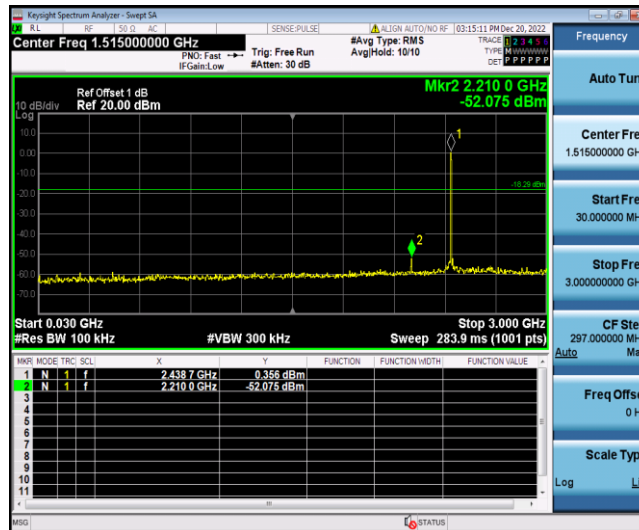
BLE_1Mbps_Ant1_2402_30~3000



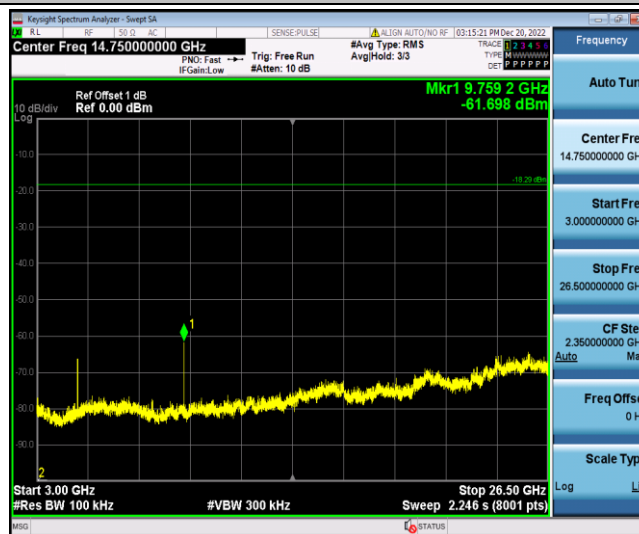
BLE_1Mbps_Ant1_2402_3000~26500



BLE_1Mbps_Ant1_2440_0~Reference



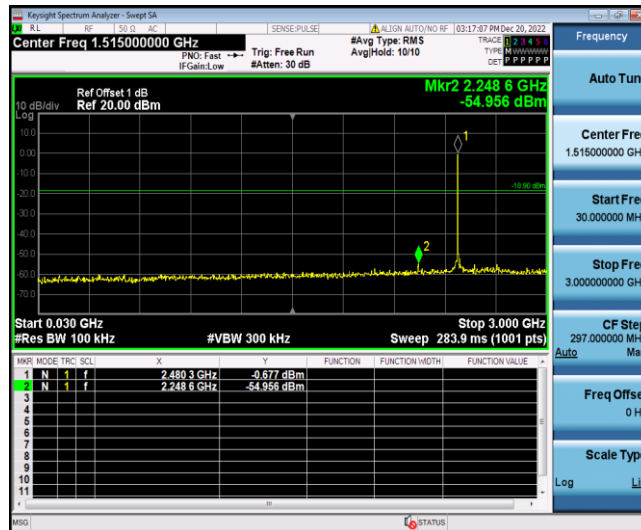
BLE_1Mbps_Ant1_2440_30~3000



BLE_1Mbps_Ant1_2440_3000~26500



BLE_1Mbps_Ant1_2480_0~Reference



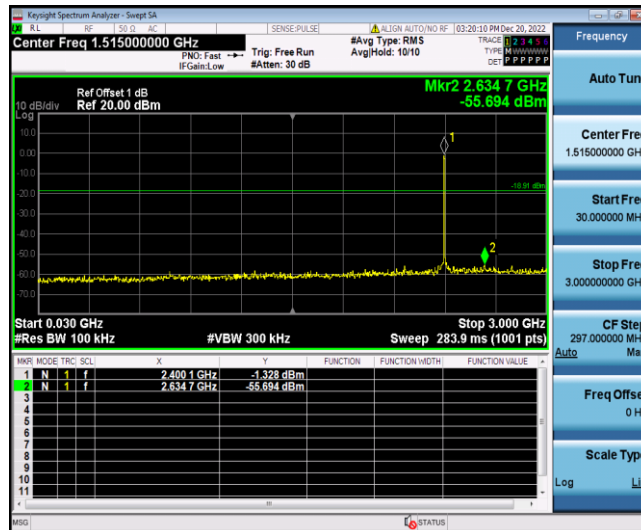
BLE	1Mbps	Ant1	2480	30~3000
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BLE_1Mbps_Ant1_2480_3000~26500



BLE_2Mbps_Ant1_2402_0~Reference



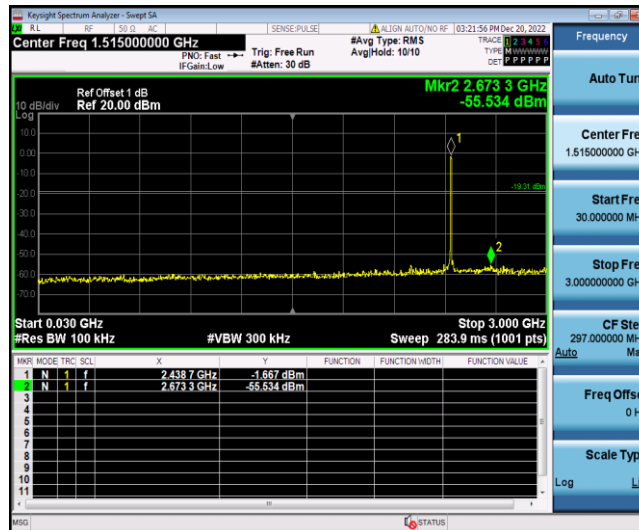
BLE_2Mbps_Ant1_2402_30~3000



BLE_2Mbps_Ant1_2402_3000~26500



BLE_2Mbps_Ant1_2440_0~Reference



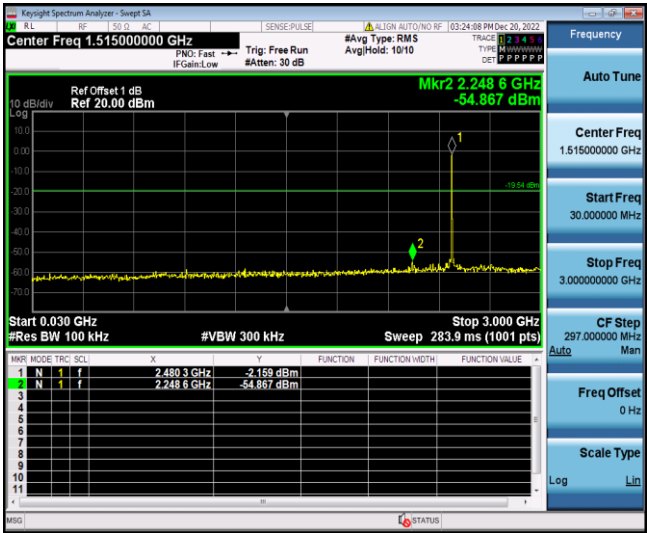
BLE_2Mbps_Ant1_2440_30~3000



BLE_2Mbps_Ant1_2440_3000~26500



BLE_2Mbps_Ant1_2480_0~Reference



BLE_2Mbps_Ant1_2480_30~3000



BLE_2Mbps_Ant1_2480_3000~26500

***** End *****