Appendix for Bluetooth BLE mode

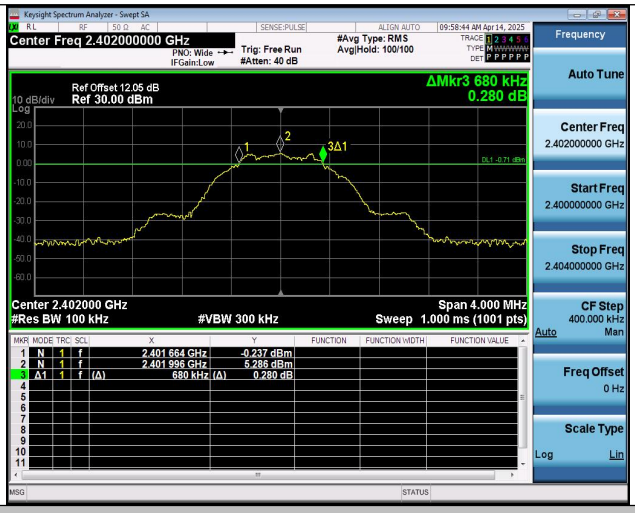
Product Name: Combo Module
Model No: 6221E-UUC

Appendix A: DTS Bandwidth

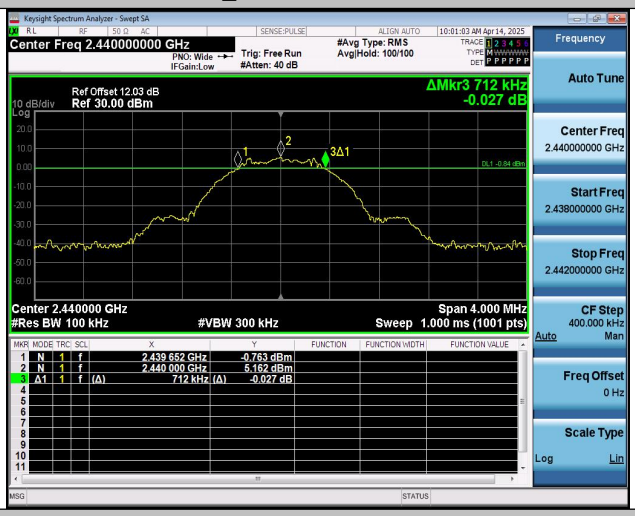
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.664	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.712	2439.652	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.724	2479.640	2480.364	0.5	PASS

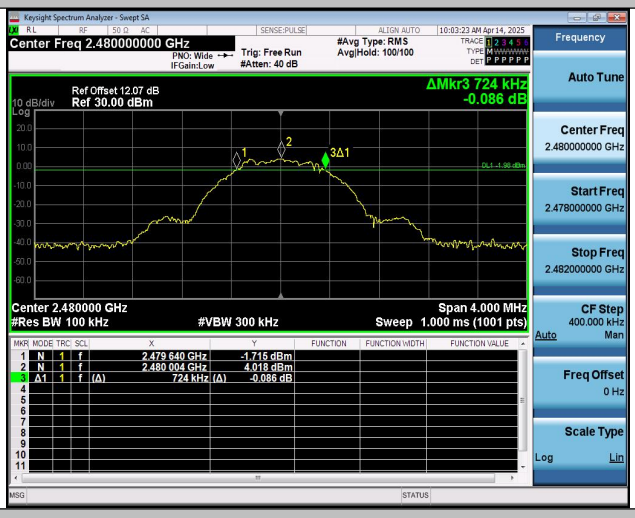
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



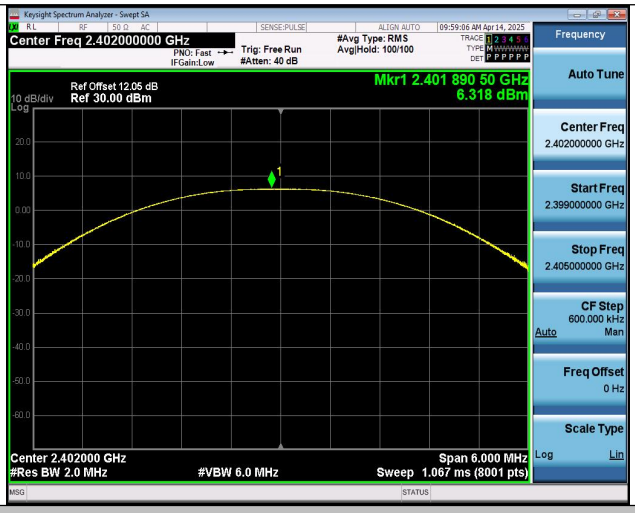
BLE_1M-Ant1-2480-PASS

Appendix B: Maximum conducted output power

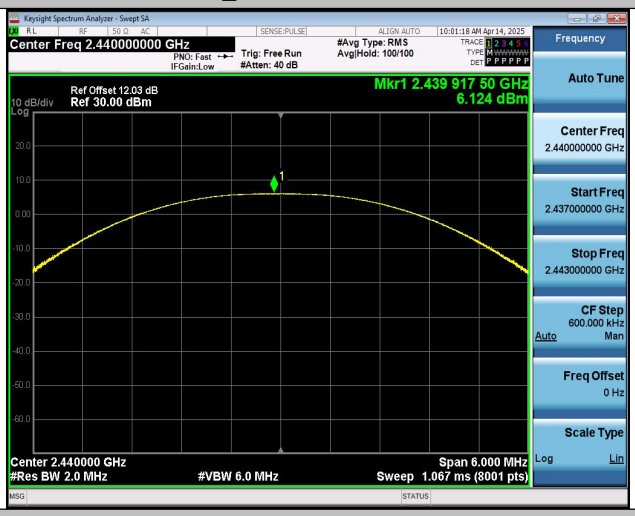
Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	6.32	≤30	PASS
BLE_1M	Ant1	2440	6.12	≤30	PASS
BLE_1M	Ant1	2480	4.98	≤30	PASS

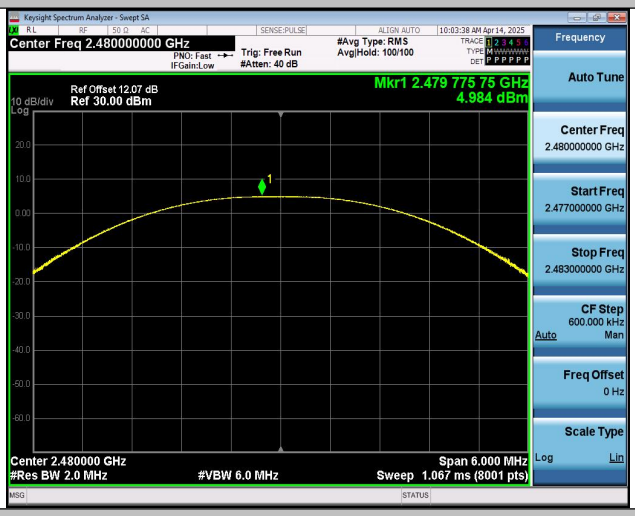
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



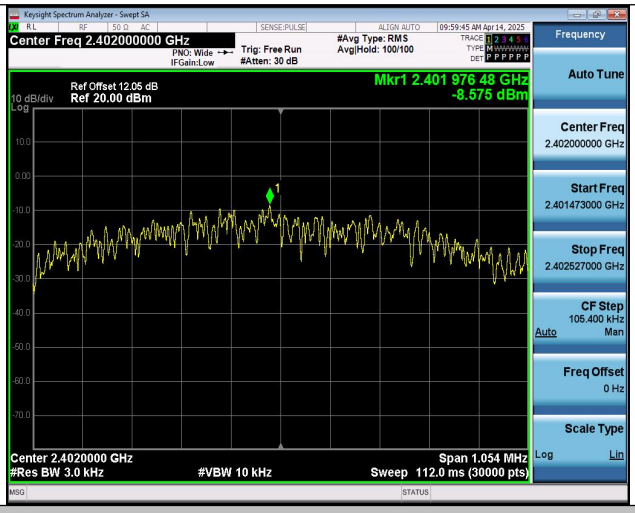
BLE_1M-Ant1-2480-PASS

Appendix C: Maximum power spectral density

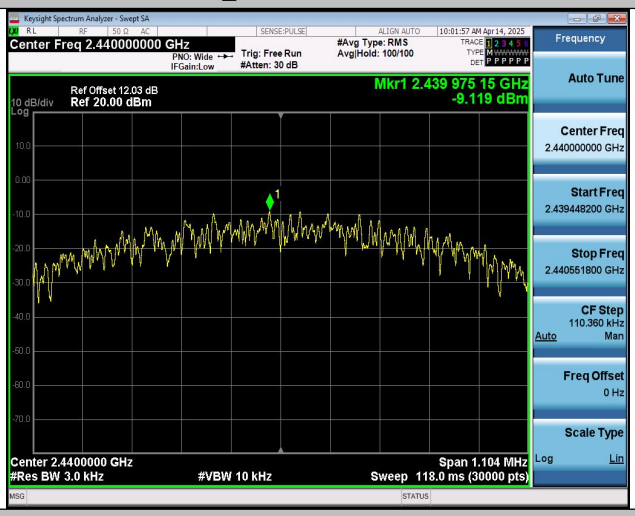
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.58	≤8.00	PASS
BLE_1M	Ant1	2440	-9.12	≤8.00	PASS
BLE_1M	Ant1	2480	-11.11	≤8.00	PASS

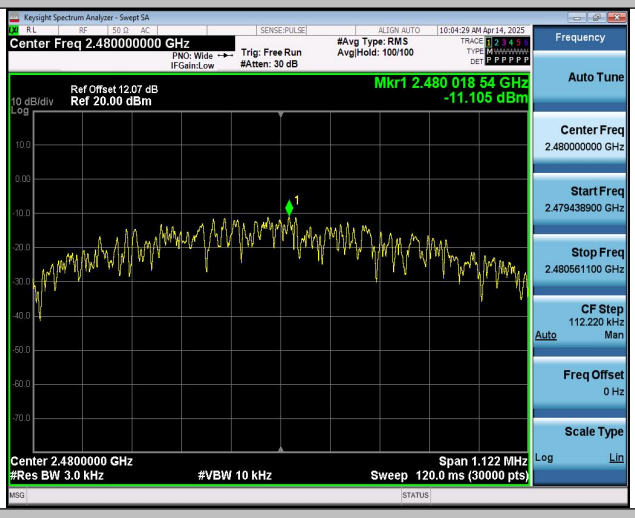
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.01	5.37
BLE_1M	Ant1	2440	2440.00	5.22
BLE_1M	Ant1	2480	2480.00	4.05

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

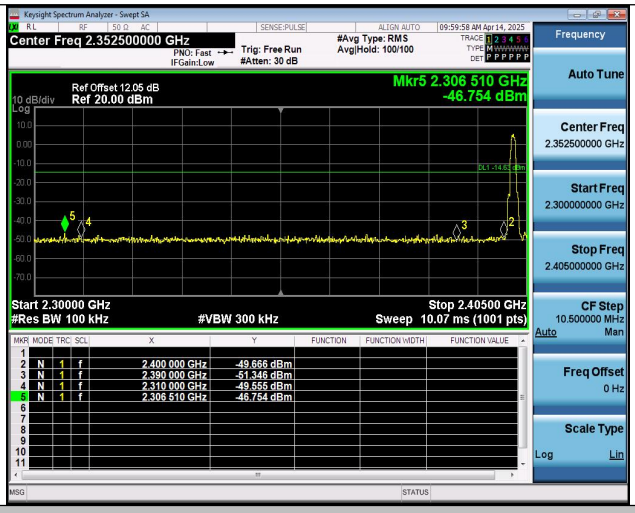
BLE_1M-Ant1-2480-PASS

Appendix E: Band edge measurements

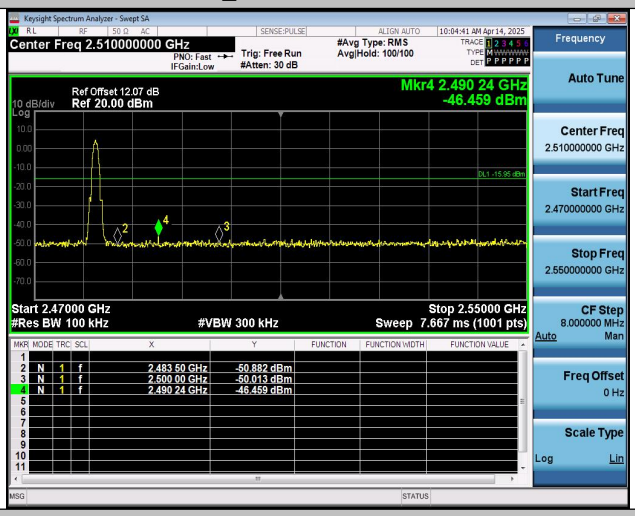
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.37	-46.75	≤-14.63	PASS
BLE_1M	Ant1	High	2480	4.05	-46.46	≤-15.95	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



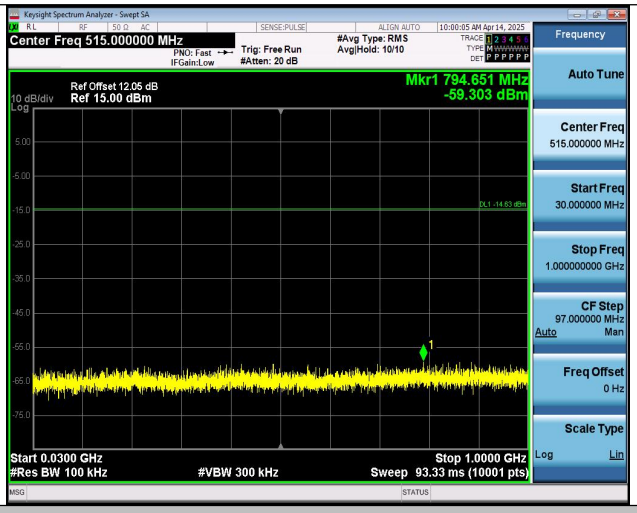
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

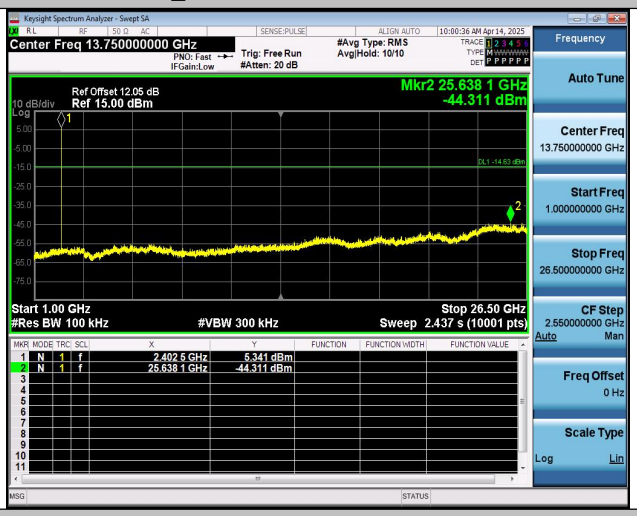
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	5.37	-59.3	≤-14.63	PASS
BLE_1M	Ant1	2402	1000~26500	5.37	-44.31	≤-14.63	PASS
BLE_1M	Ant1	2440	30~1000	5.22	-59.18	≤-14.78	PASS
BLE_1M	Ant1	2440	1000~26500	5.22	-43.66	≤-14.78	PASS
BLE_1M	Ant1	2480	30~1000	4.05	-59.57	≤-15.95	PASS
BLE_1M	Ant1	2480	1000~26500	4.05	-44.36	≤-15.95	PASS

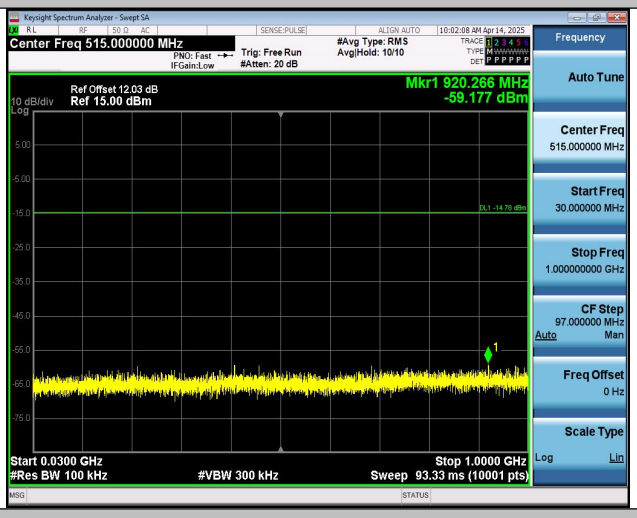
Test Graphs



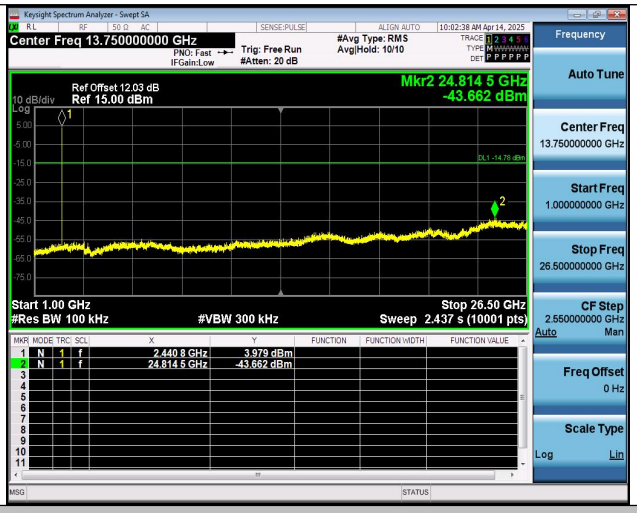
BLE_1M-Ant1-2402-30~1000-PASS



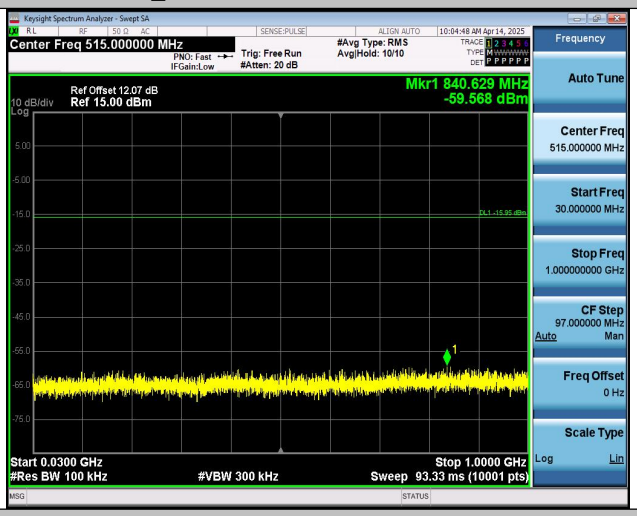
BLE_1M-Ant1-2402-1000~26500-PASS



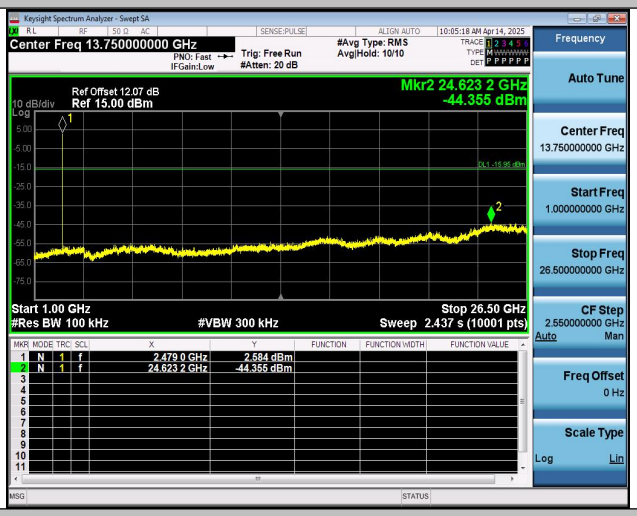
BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS