Appendix F for BT LE Test Data

Product Name: Game Controller

Test Model: P5

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	51.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng

F.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	-0.19	20	Pass
NVNT	BLE	2440	-1.13	20	Pass
NVNT	BLE	2480	-0.86	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	BLE	2402	-0.22	20	Pass
NVLT	BLE	2440	-1.26	20	Pass
NVLT	BLE	2480	-0.90	20	Pass

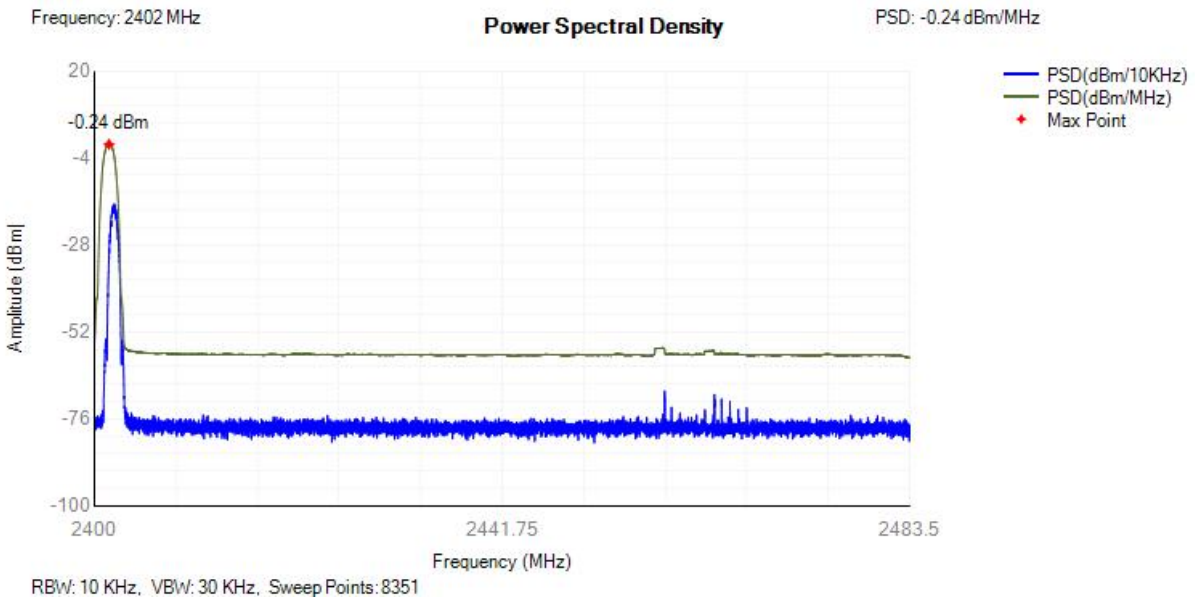
Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	BLE	2402	-0.38	20	Pass
NVHT	BLE	2440	-1.31	20	Pass
NVHT	BLE	2480	-1.04	20	Pass

Note: 20 bursts had been captured for power measurement.

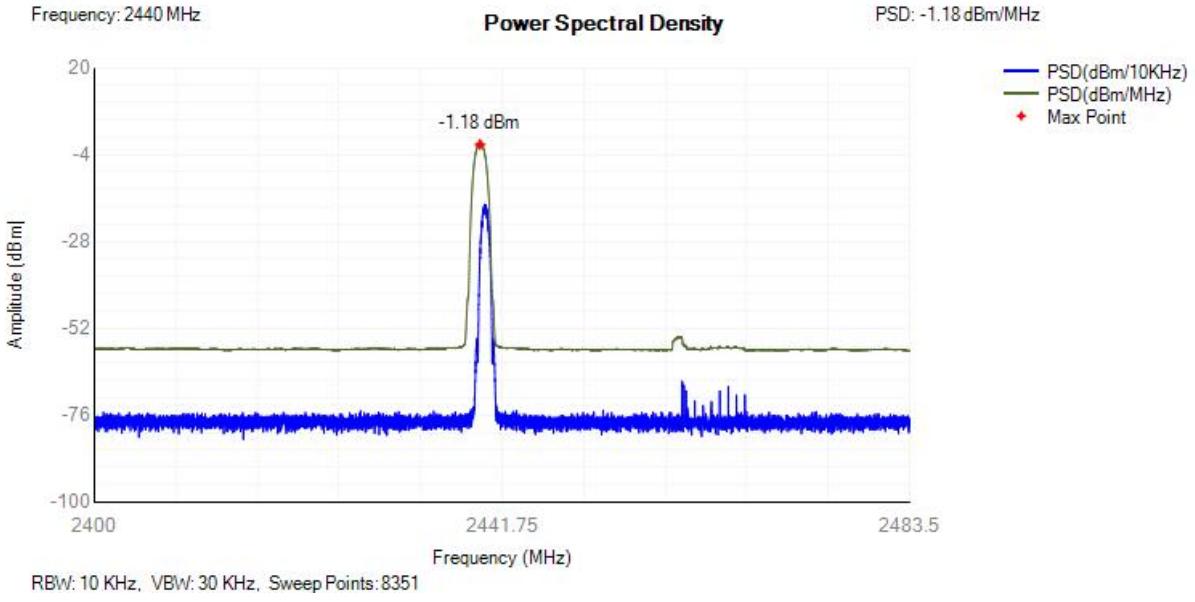
F.2 Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	-0.24	10	Pass
NVNT	BLE	2440	-1.18	10	Pass
NVNT	BLE	2480	-0.91	10	Pass

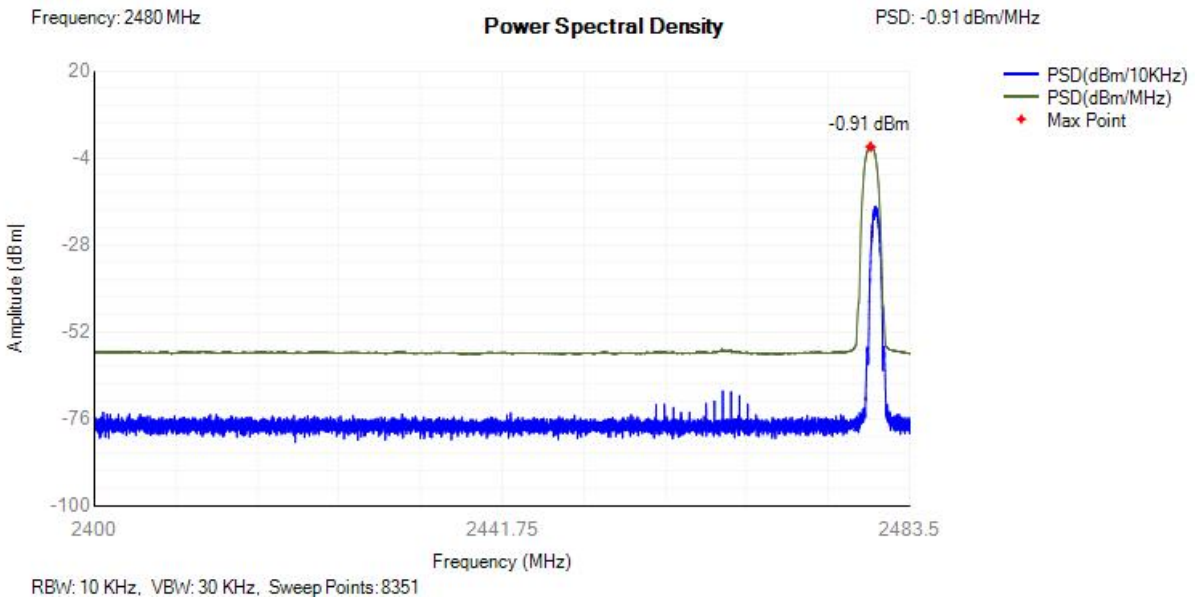
PSD NVNT BLE 2402MHz



PSD NVNT BLE 2440MHz



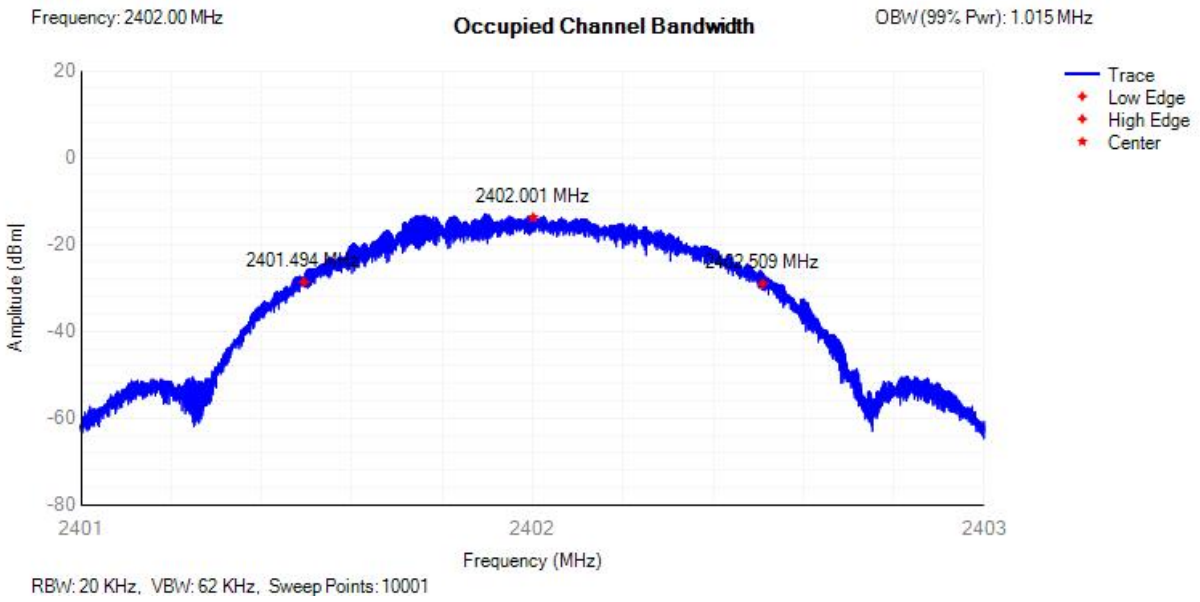
PSD NVNT BLE 2480MHz



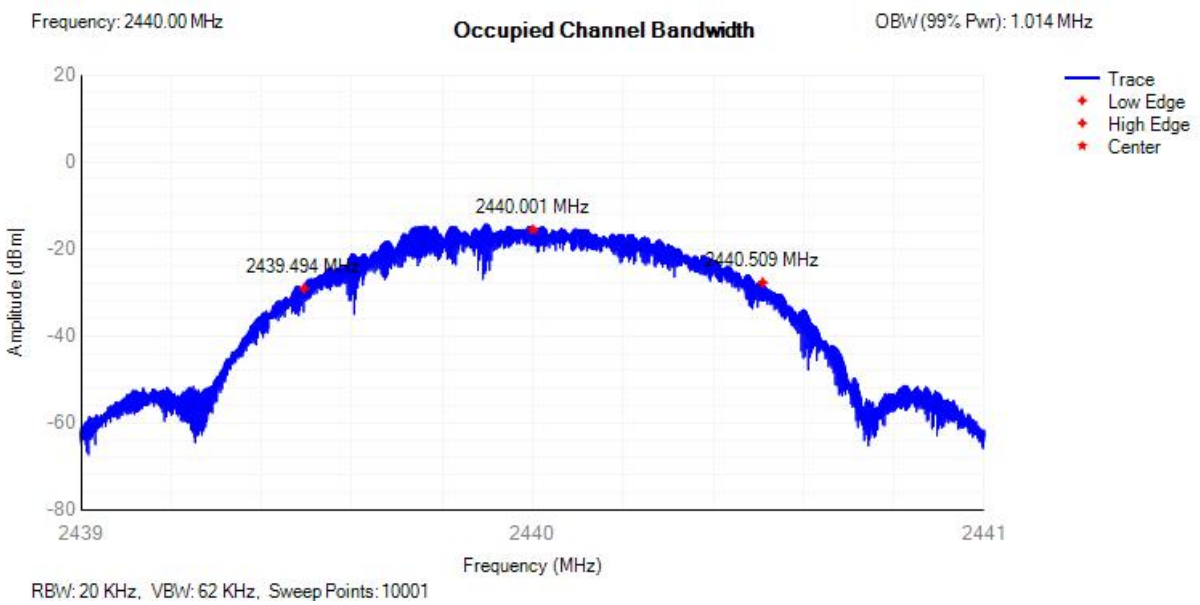
F.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE	2402	2402.001	1.015	2401.494	2402.509	2400 - 2483.5MHz	Pass
NVNT	BLE	2440	2440.001	1.014	2439.494	2440.509	2400 - 2483.5MHz	Pass
NVNT	BLE	2480	2480.001	1.016	2479.493	2480.51	2400 - 2483.5MHz	Pass

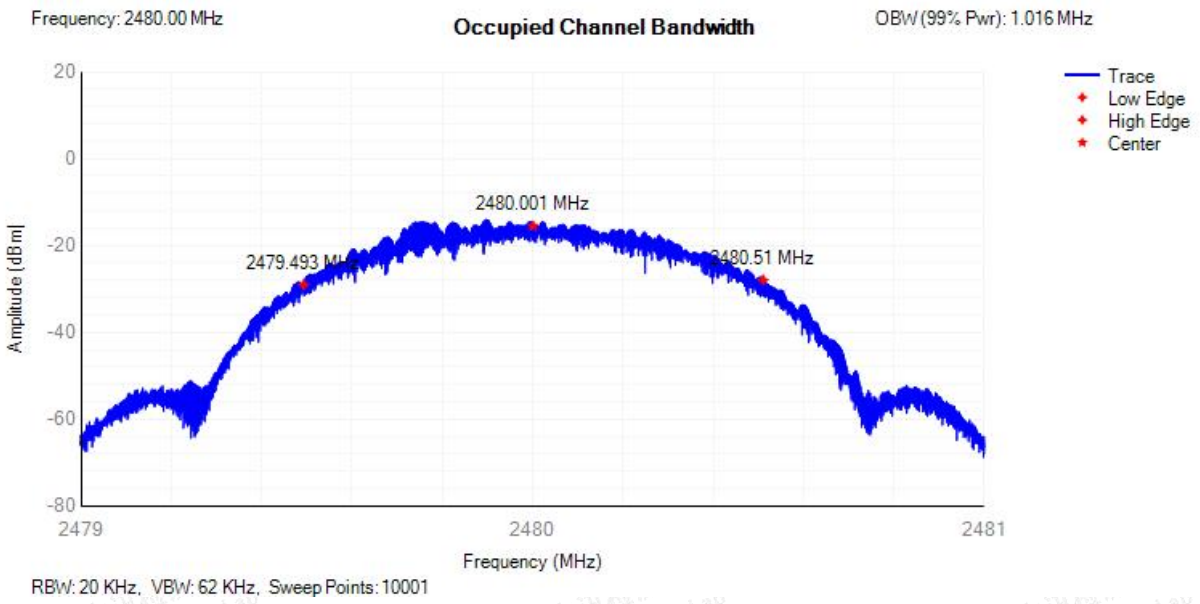
OBW NVNT BLE 2402MHz



OBW NVNT BLE 2440MHz



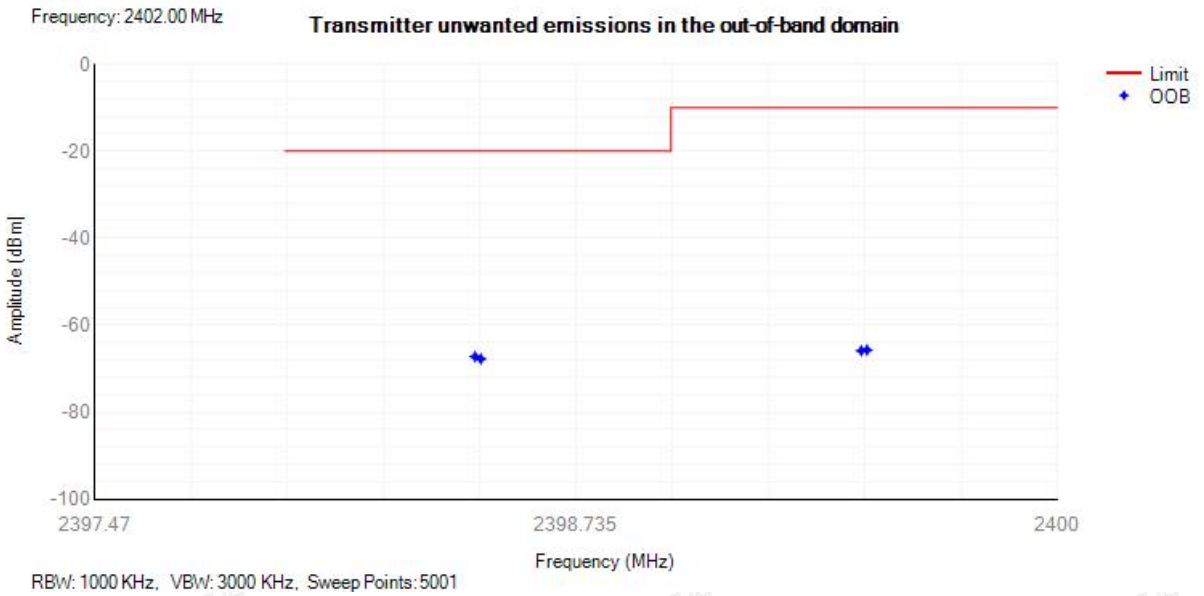
OBW NVNT BLE 2480MHz



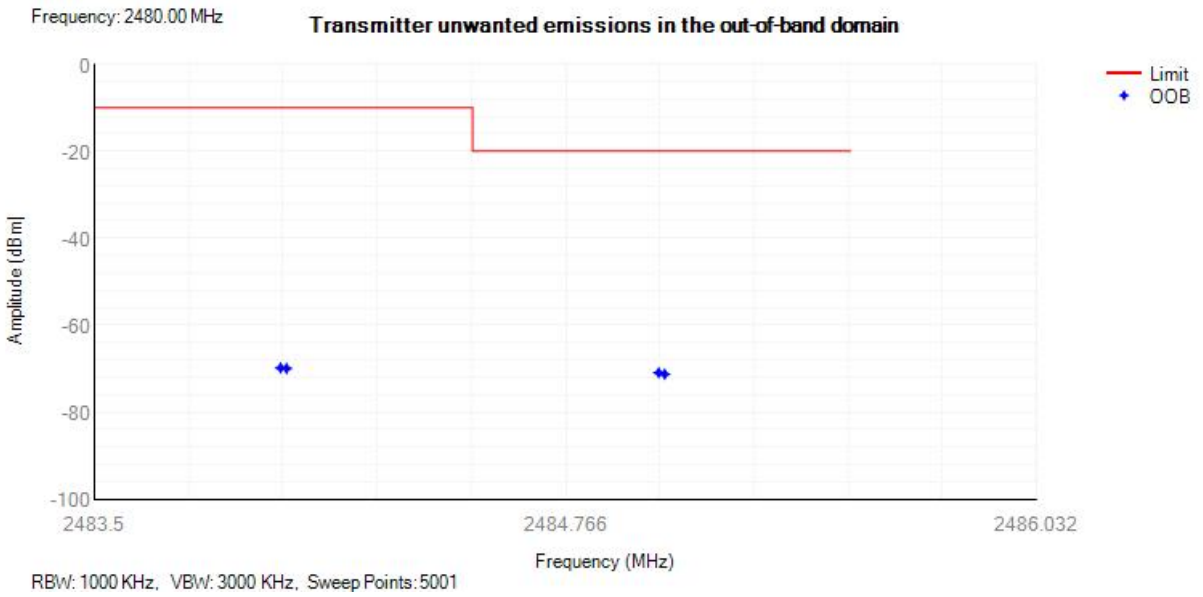
F.4 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	2399.5	-65.71	-10	Pass
NVNT	BLE	2402	2399.485	-65.88	-10	Pass
NVNT	BLE	2402	2398.485	-67.74	-20	Pass
NVNT	BLE	2402	2398.47	-67.24	-20	Pass
NVNT	BLE	2480	2484	-69.83	-10	Pass
NVNT	BLE	2480	2484.016	-69.95	-10	Pass
NVNT	BLE	2480	2485.016	-70.94	-20	Pass
NVNT	BLE	2480	2485.032	-71.26	-20	Pass

Tx. Emissions OOB NVNT BLE 2402MHz



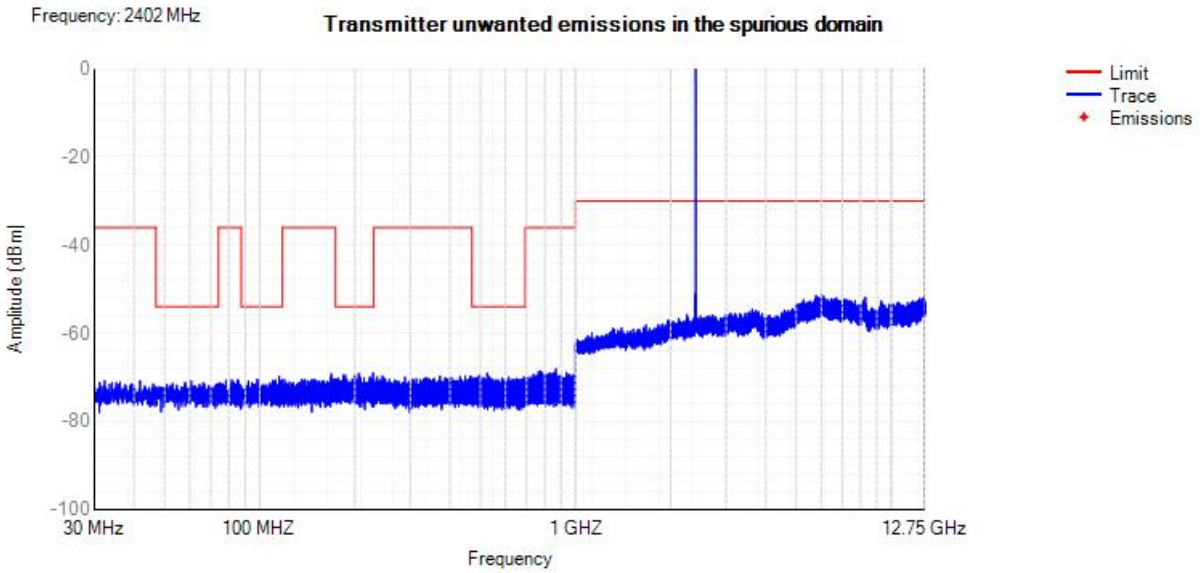
Tx. Emissions OOB NVNT BLE 2480MHz



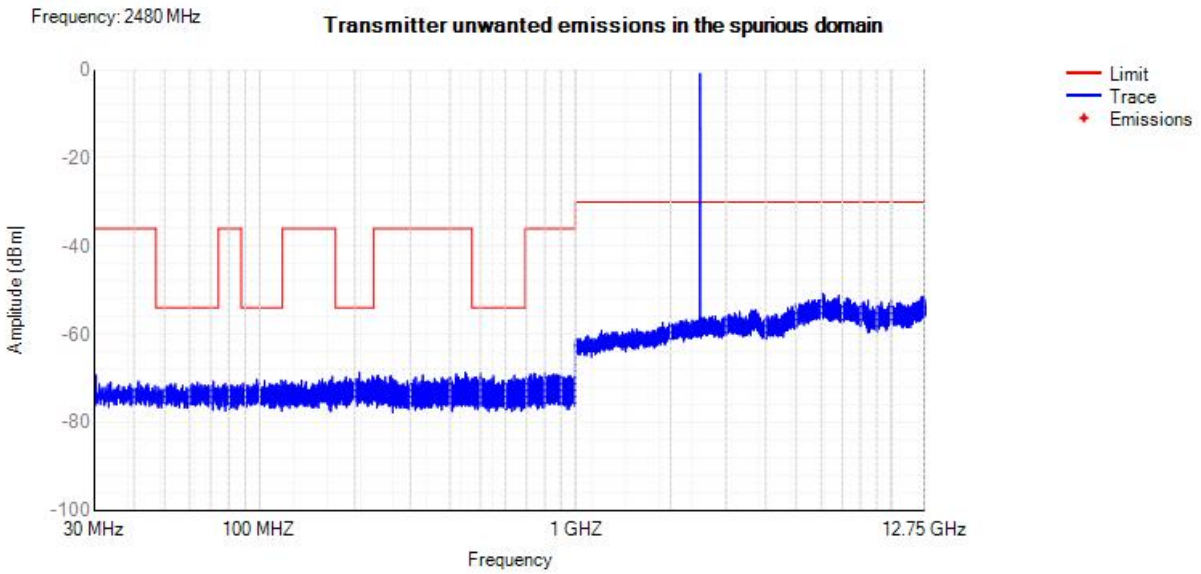
F.5 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict

Tx. Spurious NVNT BLE 2402MHz



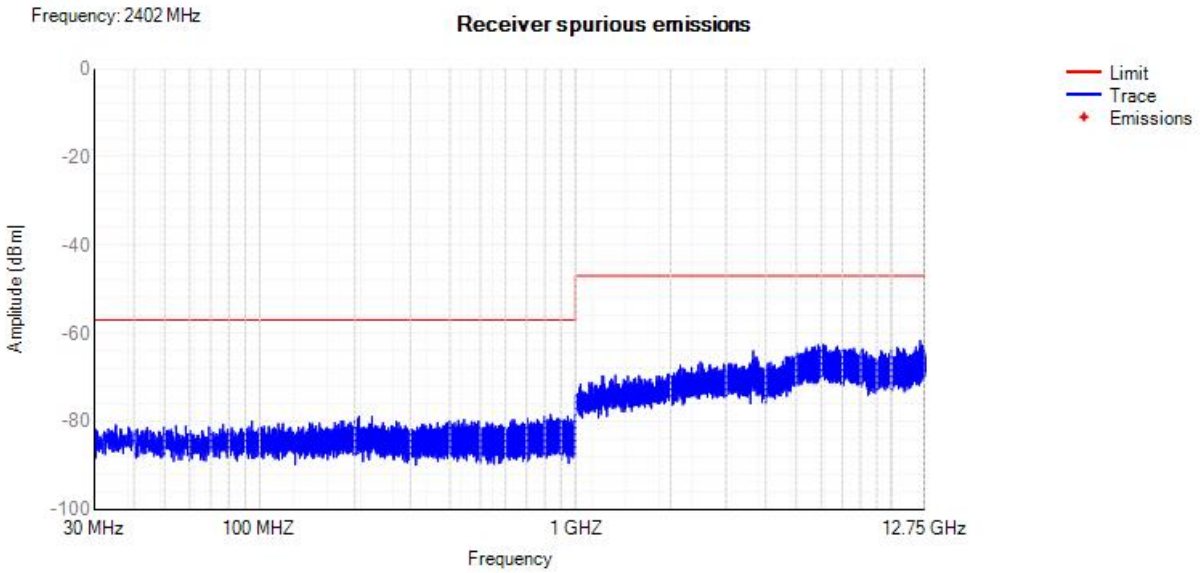
Tx. Spurious NVNT BLE 2480MHz



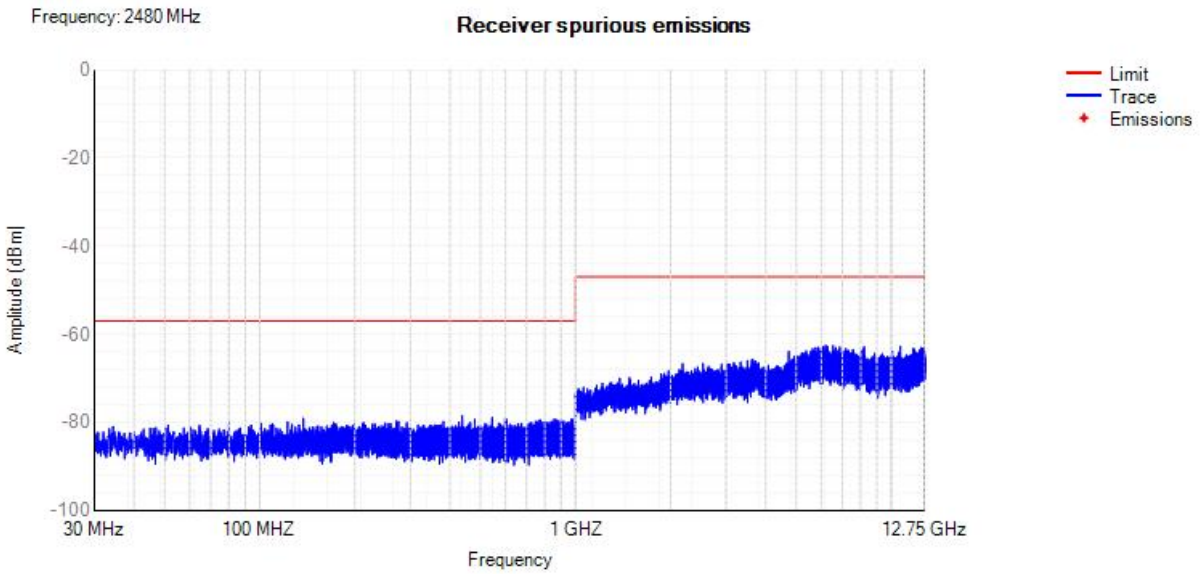
F.6 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict

Rx. Spurious NVNT BLE 2402MHz



Rx. Spurious NVNT BLE 2480MHz



F.7 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
BLE	2402	-59	2380	-26	≥-34	CW	3.32	10	Pass
			2504	-22	≥-34	CW	4.15	10	Pass
			2300	-27	≥-34	CW	2.71	10	Pass
			2584	-24	≥-34	CW	1.33	10	Pass
	2480	-59	2380	-30	≥-34	CW	1.44	10	Pass
			2504	-24	≥-34	CW	1.32	10	Pass
			2300	-27	≥-34	CW	4.15	10	Pass
			2584	-22	≥-34	CW	2.08	10	Pass