



Appendix F for BT LE RF Test Data

Product Name: myFirst Fone R1s, S11

Test Model: KW1305, G4K1

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	LIHUAN
Supervised by:	Tom Liu



F.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	-1.12	20	Pass
NVNT	BLE	2440	-2.04	20	Pass
NVNT	BLE	2480	-0.7	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	BLE	2402	-1.13	20	Pass
NVLT	BLE	2440	-2.06	20	Pass
NVLT	BLE	2480	-0.72	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	BLE	2402	-1.16	20	Pass
NVHT	BLE	2440	-2.07	20	Pass
NVHT	BLE	2480	-0.74	20	Pass

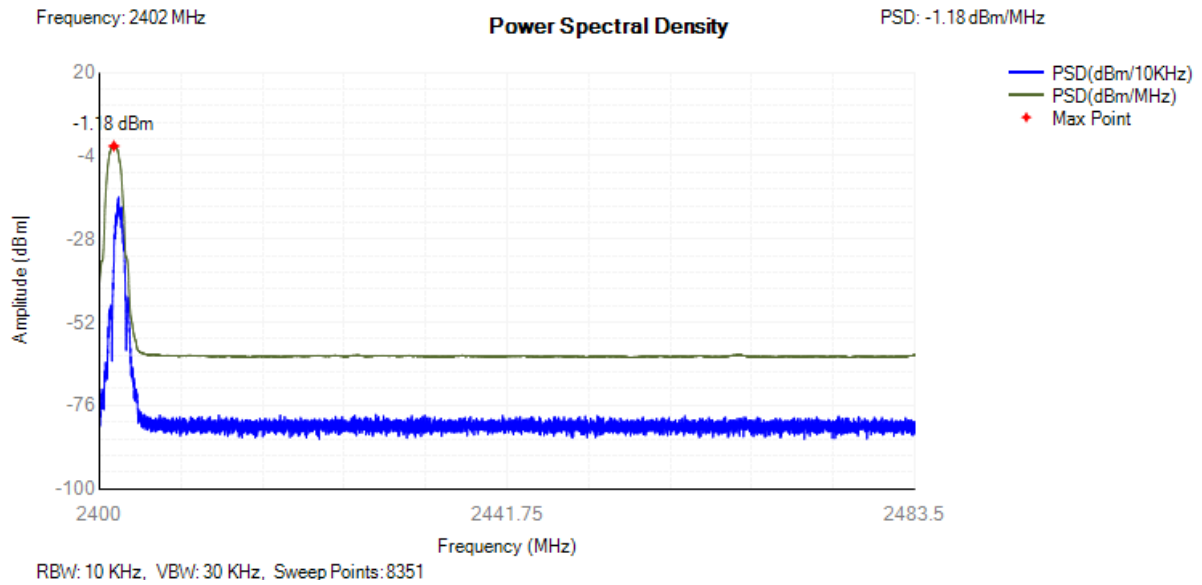
***Note: 20 bursts had been captured for power measurement.



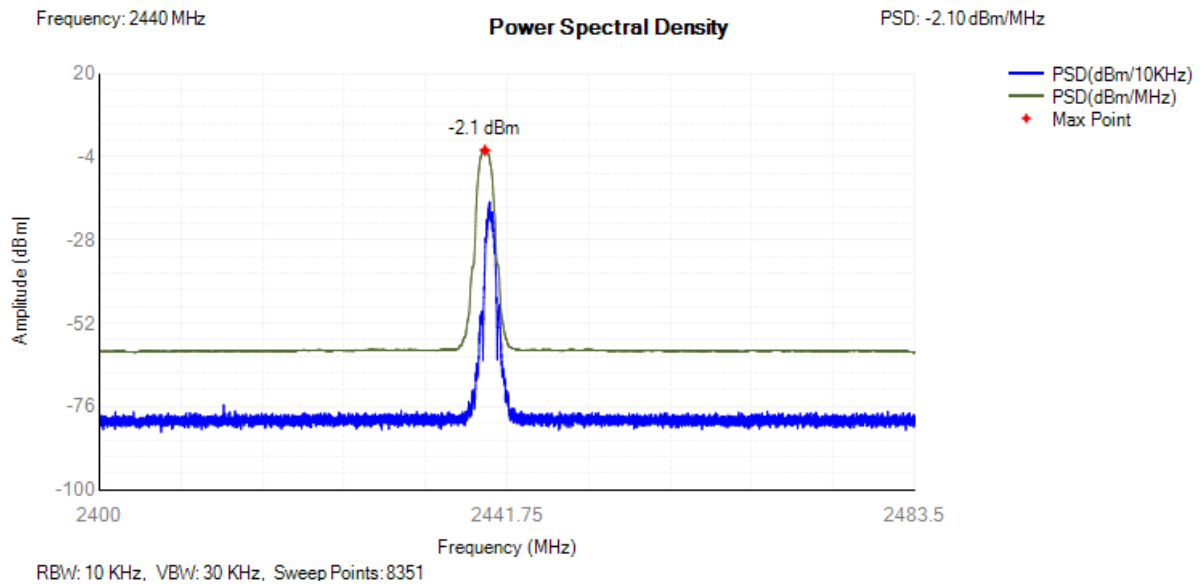
F.2 Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	-1.18	10	Pass
NVNT	BLE	2440	-2.1	10	Pass
NVNT	BLE	2480	-0.76	10	Pass

PSD NVNT BLE 2402MHz

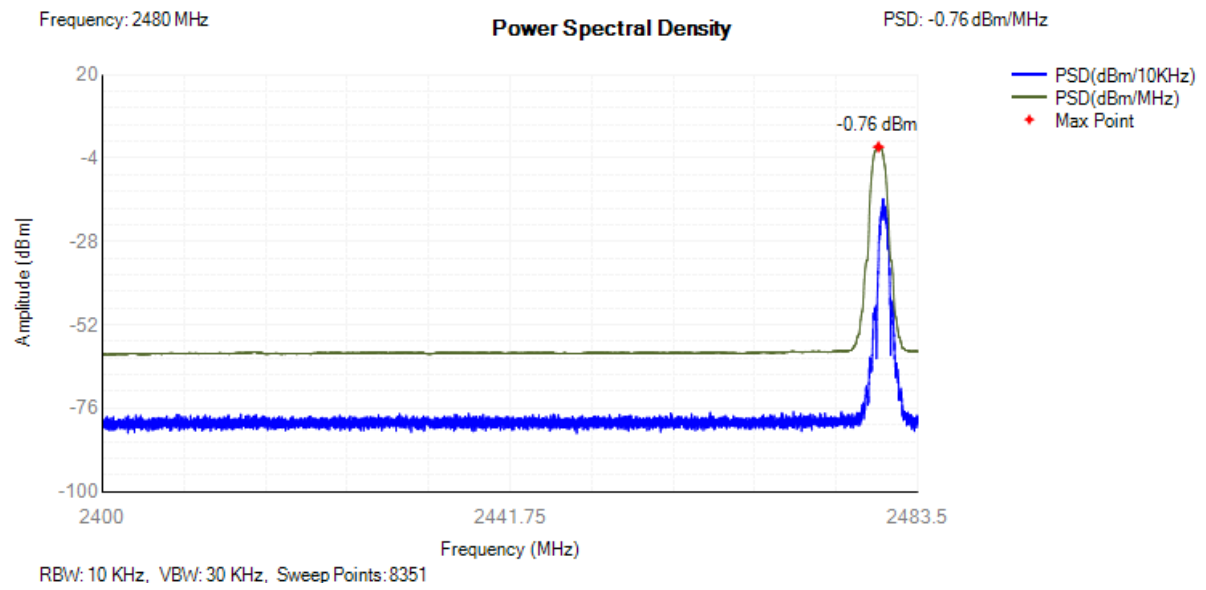


PSD NVNT BLE 2440MHz





PSD NVNT BLE 2480MHz

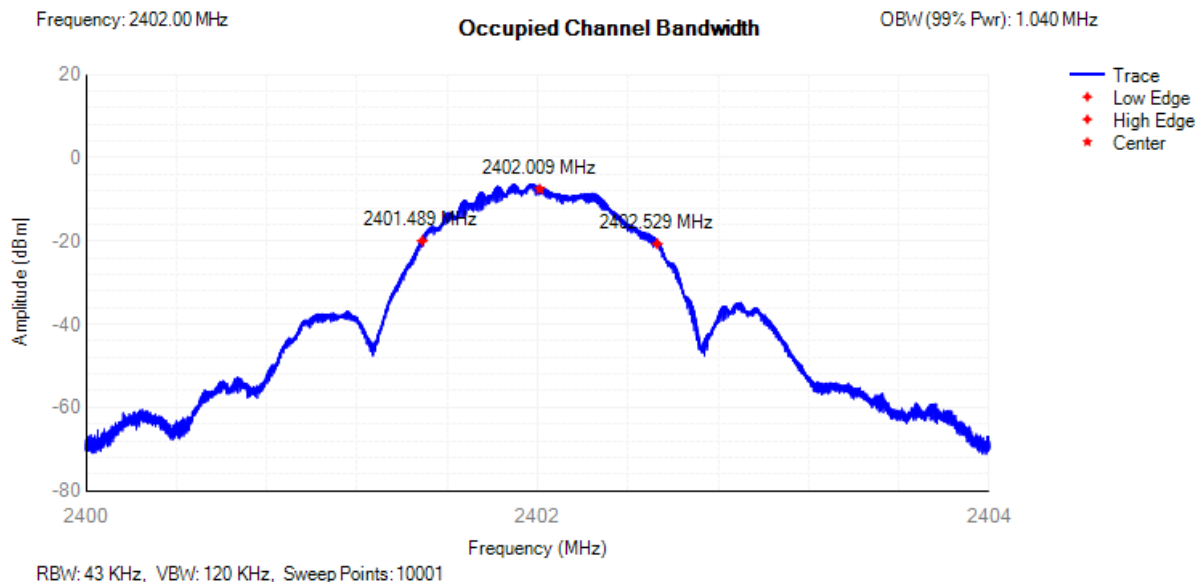




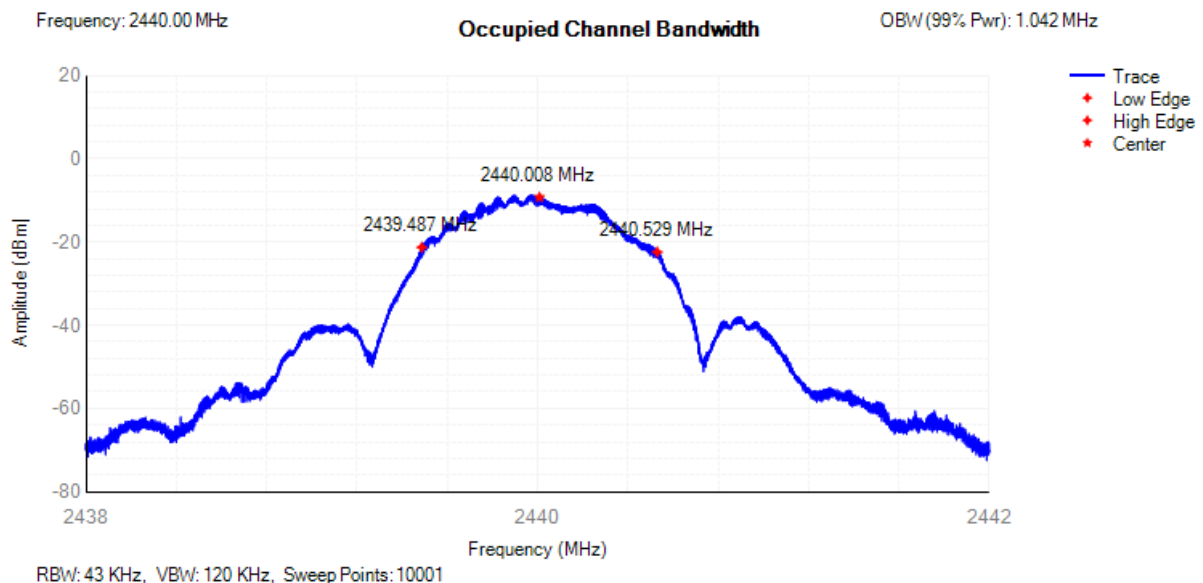
F.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE	2402	2402.009	1.04	2401.489	2402.529	2400 - 2483.5MHz	Pass
NVNT	BLE	2440	2440.008	1.042	2439.487	2440.529	2400 - 2483.5MHz	Pass
NVNT	BLE	2480	2480.007	1.038	2479.487	2480.526	2400 - 2483.5MHz	Pass

OBW NVNT BLE 2402MHz

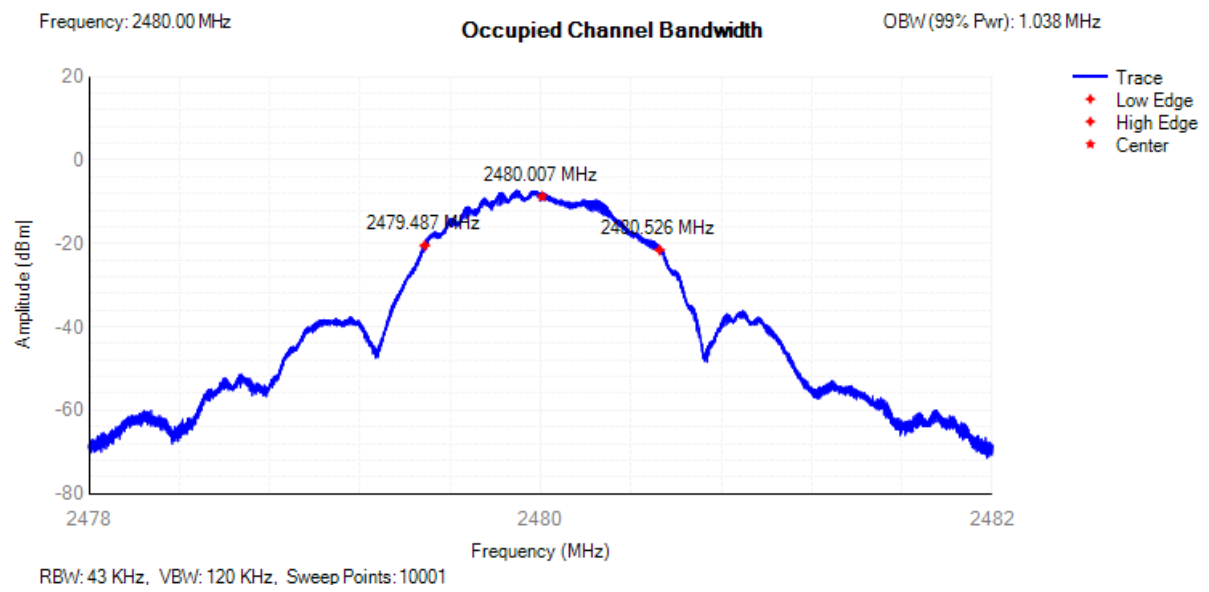


OBW NVNT BLE 2440MHz





OBW NVNT BLE 2480MHz

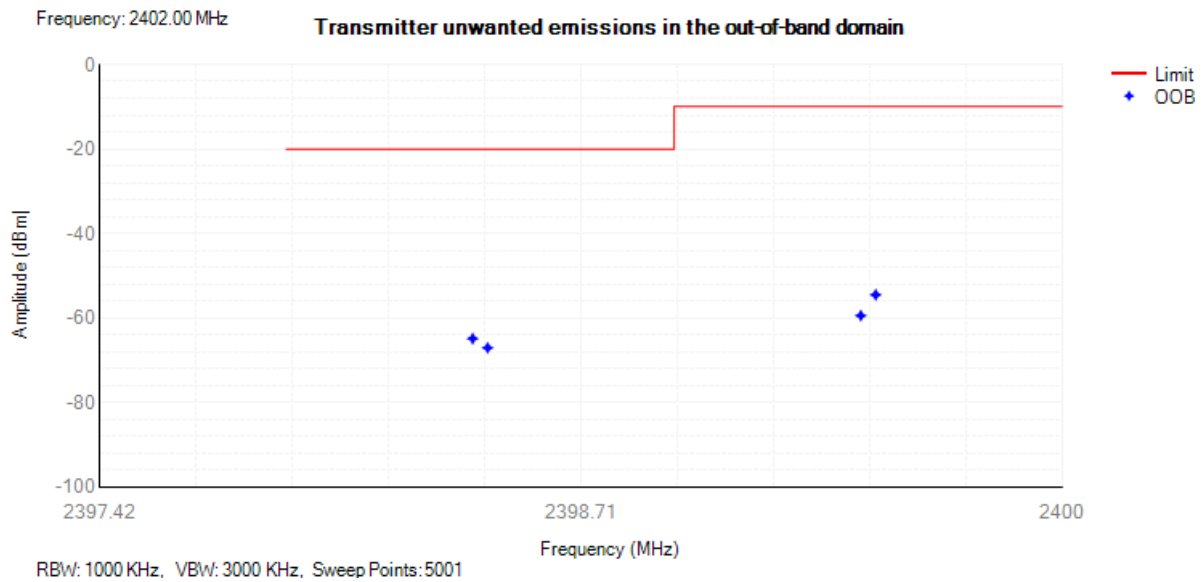




F.4 Transmitter unwanted emissions in the out-of-band domain

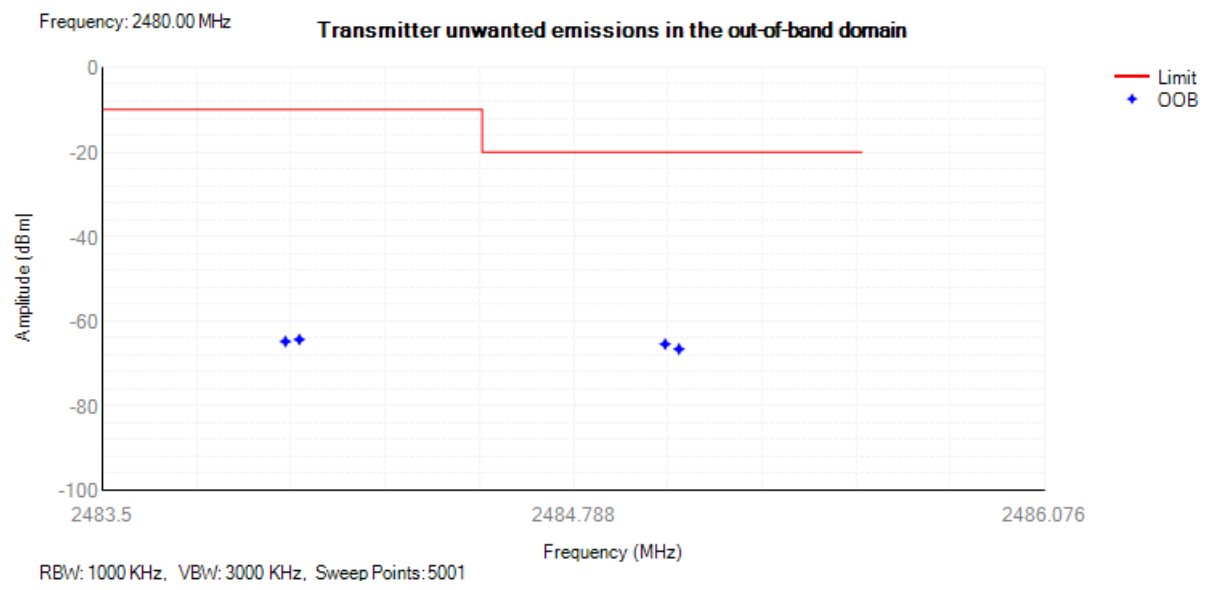
Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	2399.5	-54.5	-10	Pass
NVNT	BLE	2402	2399.46	-59.43	-10	Pass
NVNT	BLE	2402	2398.46	-67.05	-20	Pass
NVNT	BLE	2402	2398.42	-64.86	-20	Pass
NVNT	BLE	2480	2484	-64.84	-10	Pass
NVNT	BLE	2480	2484.038	-64.37	-10	Pass
NVNT	BLE	2480	2485.038	-65.45	-20	Pass
NVNT	BLE	2480	2485.076	-66.63	-20	Pass

Tx. Emissions OOB NVNT BLE 2402MHz





Tx. Emissions OOB NVNT BLE 2480MHz

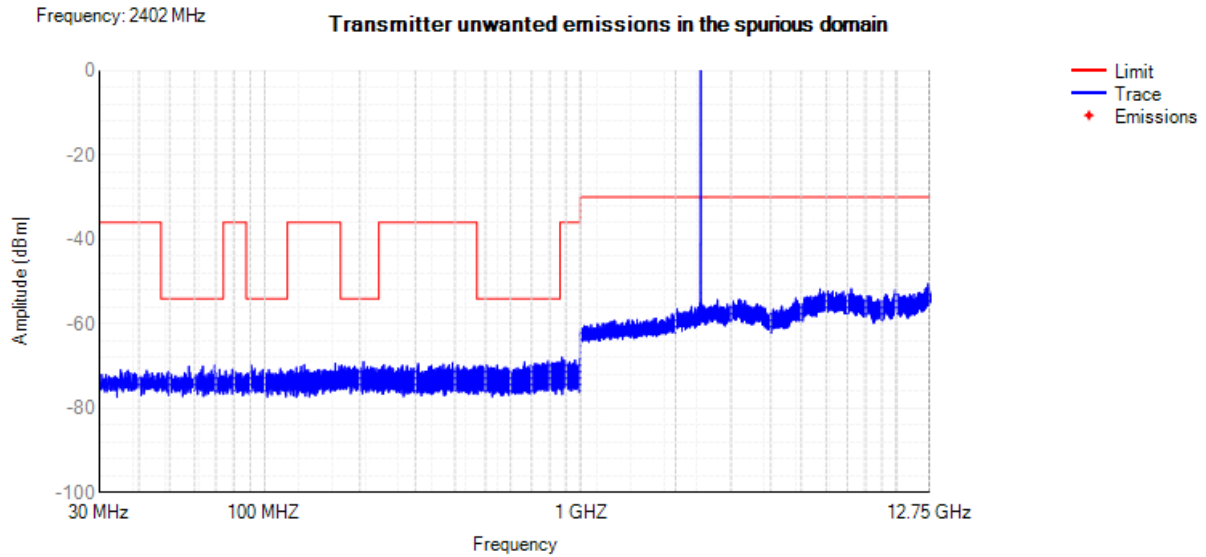




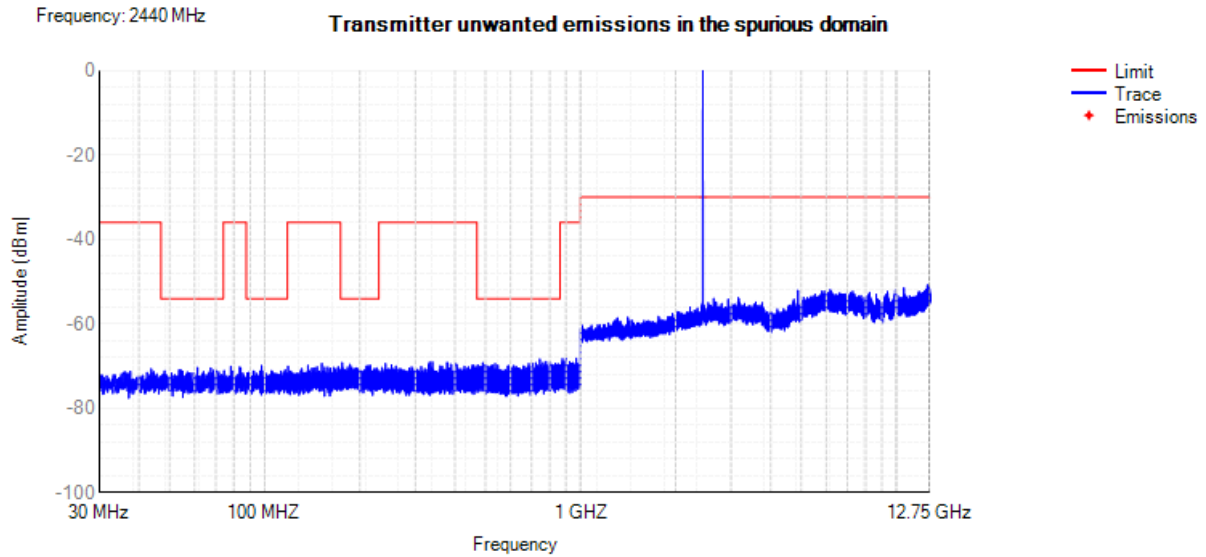
F.5 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
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Tx. Spurious NVNT BLE 2402MHz

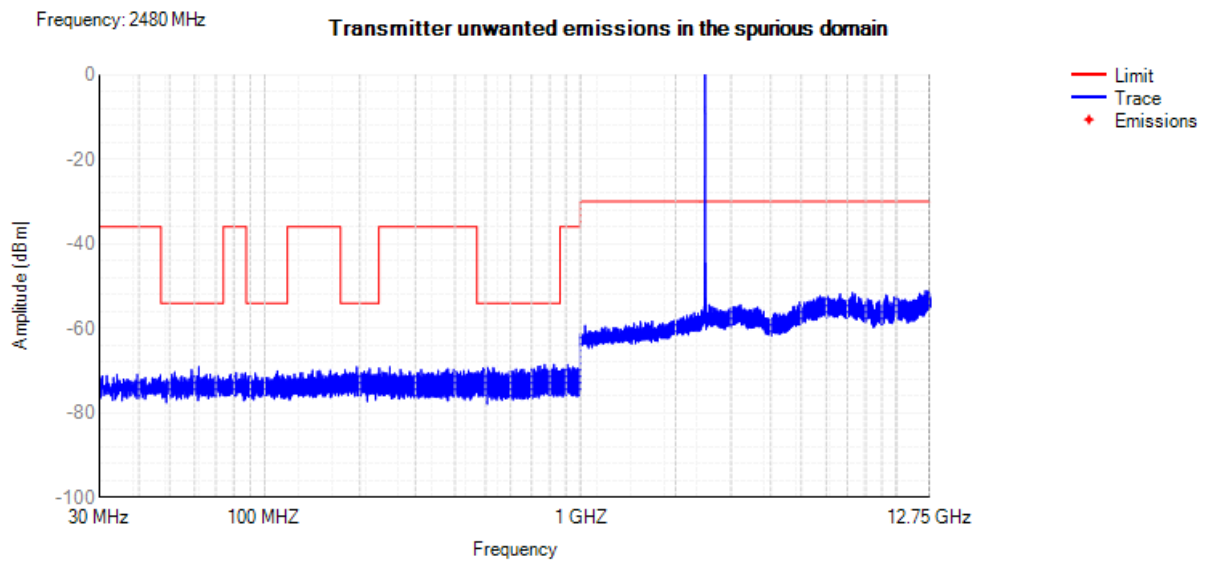


Tx. Spurious NVNT BLE 2440MHz





Tx. Spurious NVNT BLE 2480MHz



Tx. Spurious NVNT BLE

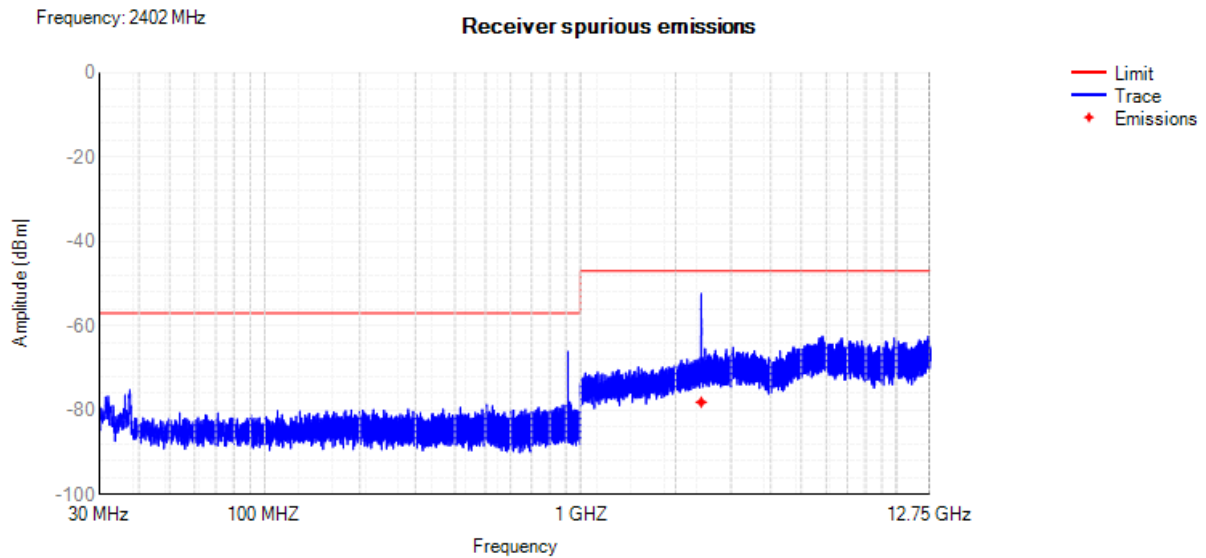
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
143.71	H	-50.35	-36.00	-14.35	PK
248.89	V	-48.58	-36.00	-12.58	PK
812.87	H	-65.41	-54.00	-11.41	PK
804.64	V	-67.61	-54.00	-13.61	PK
4803.98	H	-42.50	-30.00	-12.50	PK
4804.04	V	-41.30	-30.00	-11.30	PK
7206.01	H	-44.30	-30.00	-14.30	PK
7205.98	V	-41.99	-30.00	-11.99	PK
Channel 39 (2480MHz)					
170.18	H	-47.91	-36.00	-11.91	PK
238.97	V	-47.10	-36.00	-11.10	PK
983.18	H	-49.20	-36.00	-13.20	PK
869.88	V	-48.92	-36.00	-12.92	PK
4959.98	H	-40.59	-30.00	-10.59	PK
4959.97	V	-41.06	-30.00	-11.06	PK
7440.01	H	-42.94	-30.00	-12.94	PK
7440.04	V	-42.26	-30.00	-12.26	PK



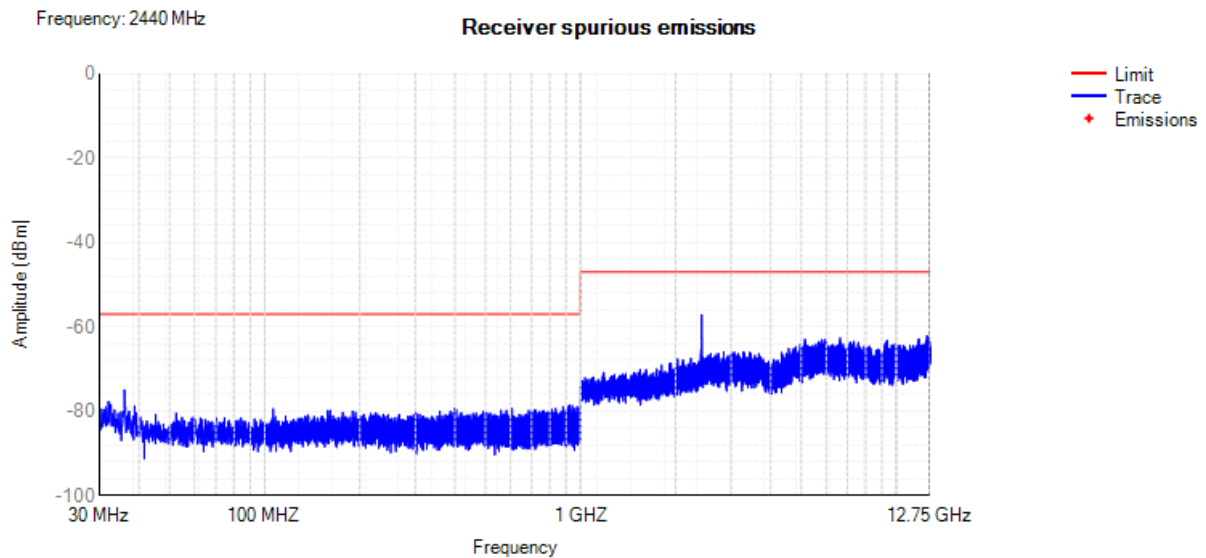
F.6 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	1000 MHz -12750 MHz	2410.5	-78.05	-47	Pass

Rx. Spurious NVNT BLE 2402MHz

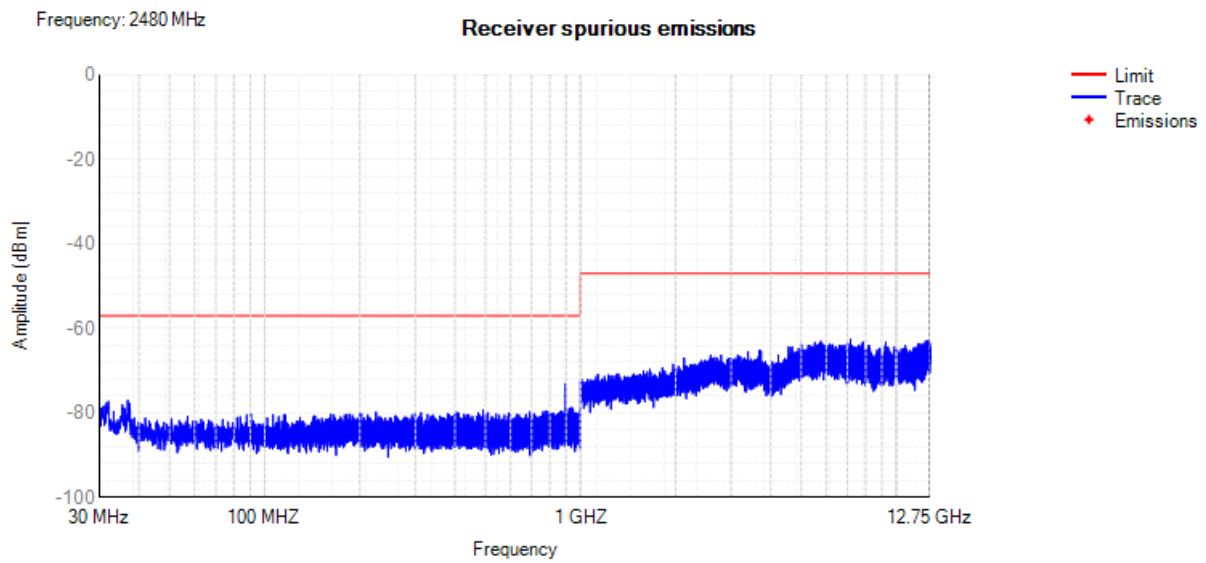


Rx. Spurious NVNT BLE 2440MHz





Rx. Spurious NVNT BLE 2480MHz



Rx. Spurious NVNT BLE

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
210.18	H	-71.45	-57.00	-14.45	PK
161.82	V	-69.69	-57.00	-12.69	PK
969.84	H	-69.45	-57.00	-12.45	PK
954.36	V	-71.33	-57.00	-14.33	PK
1410.69	H	-61.79	-47.00	-14.79	PK
1368.41	V	-60.98	-47.00	-13.98	PK
2035.92	H	-59.48	-47.00	-12.48	PK
2682.63	V	-58.84	-47.00	-11.84	PK
Channel 39 (2480MHz)					
170.23	H	-68.17	-57.00	-11.17	PK
136.49	V	-67.49	-57.00	-10.49	PK
991.83	H	-67.91	-57.00	-10.91	PK
862.75	V	-69.50	-57.00	-12.50	PK
1432.10	H	-60.28	-47.00	-13.28	PK
1741.73	V	-61.41	-47.00	-14.41	PK
2220.14	H	-57.16	-47.00	-10.16	PK
2865.33	V	-58.93	-47.00	-11.93	PK



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	-34	≥ -34	CW	7.04	10	Pass
			2504	-32	≥ -34	CW	8.70	10	Pass
			2300	-28	≥ -34	CW	8.01	10	Pass
			2584	-22	≥ -34	CW	8.75	10	Pass
	2480	-59	2380	-31	≥ -34	CW	8.23	10	Pass
			2504	-23	≥ -34	CW	8.92	10	Pass
			2300	-22	≥ -34	CW	8.03	10	Pass
			2584	-18	≥ -34	CW	7.17	10	Pass