



## Appendix F for BT LE RF Test Data

Product Name: myFirst Fone S3

Test Model: KW1401

### Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





## F.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	-6.57	20	Pass
NVNT	BLE	2440	-5.75	20	Pass
NVNT	BLE	2480	-5.87	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	BLE	2402	-6.78	20	Pass
NVLT	BLE	2440	-5.83	20	Pass
NVLT	BLE	2480	-5.99	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	BLE	2402	-6.81	20	Pass
NVHT	BLE	2440	-5.92	20	Pass
NVHT	BLE	2480	-6.06	20	Pass

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

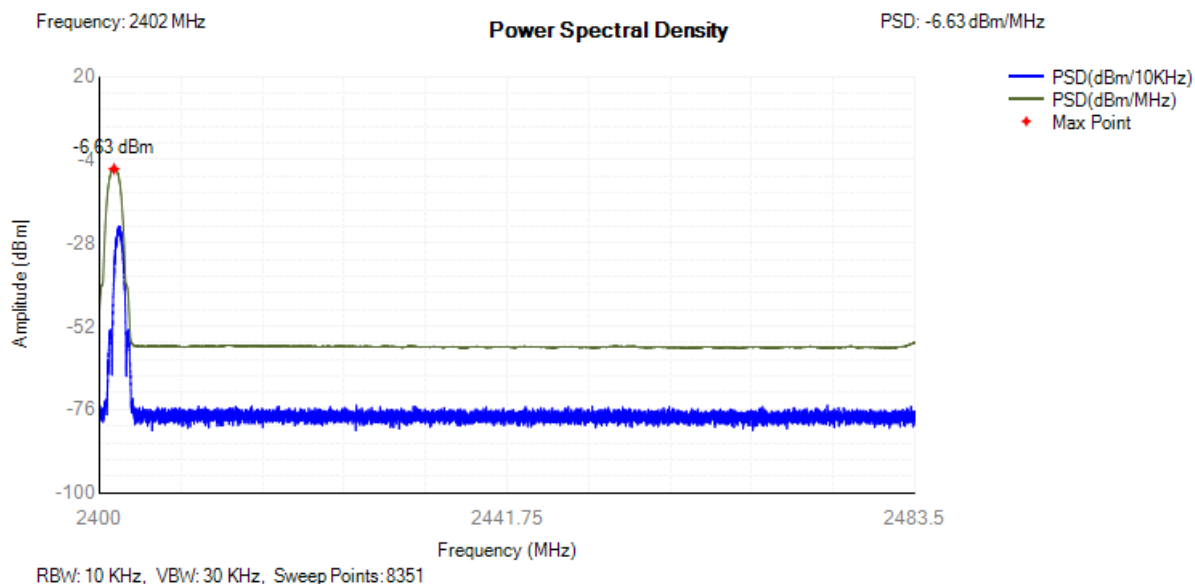




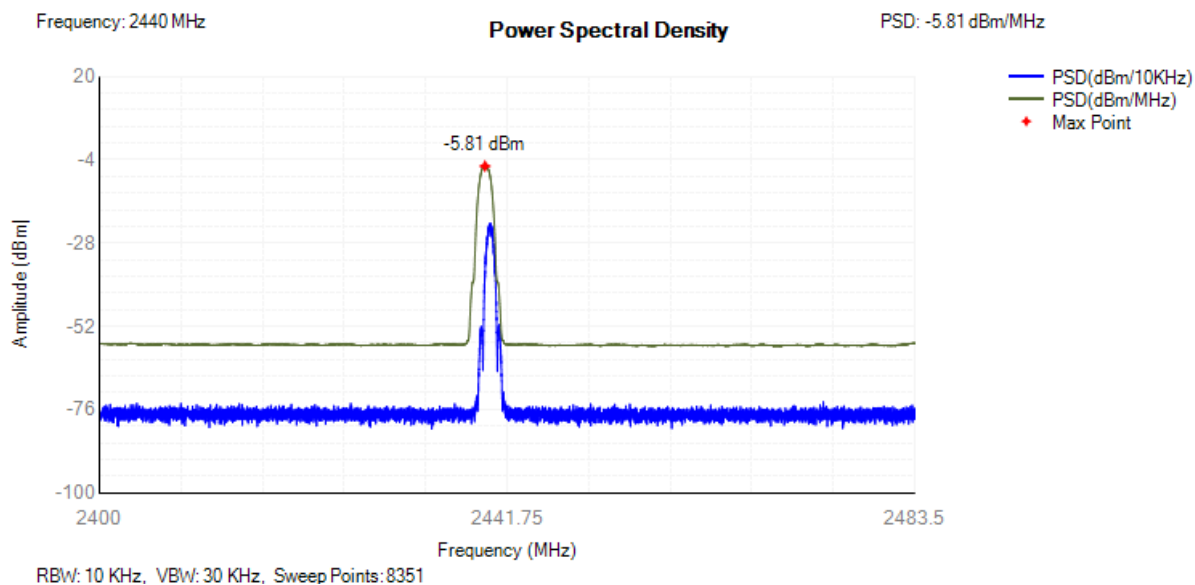
## F.2 Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	-6.63	10	Pass
NVNT	BLE	2440	-5.81	10	Pass
NVNT	BLE	2480	-5.93	10	Pass

PSD NVNT BLE 2402MHz

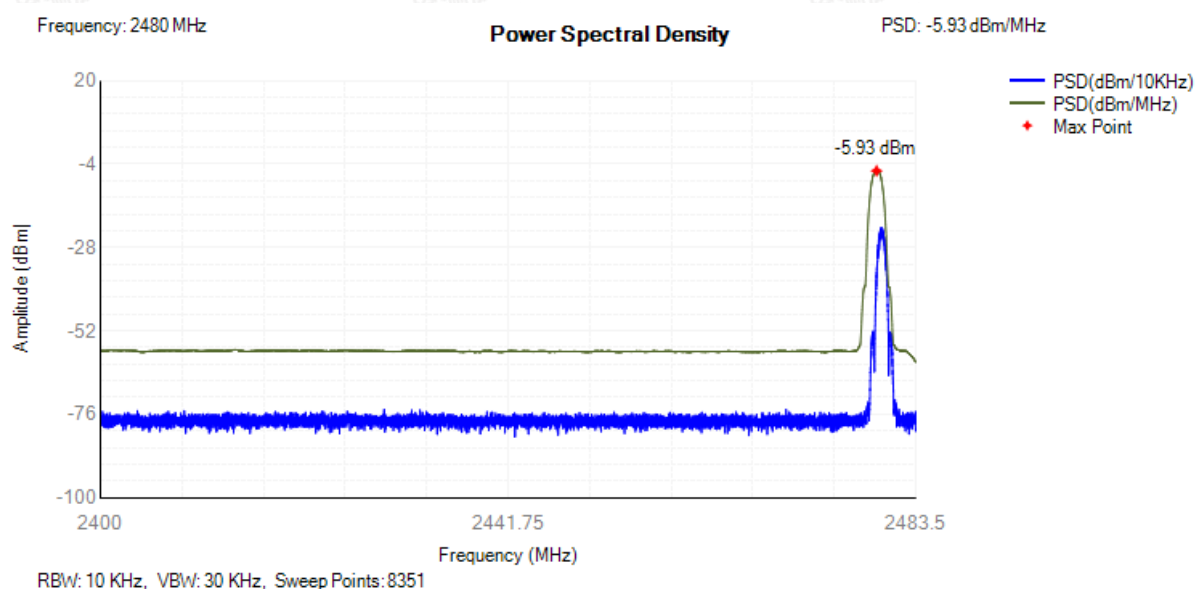


PSD NVNT BLE 2440MHz





## PSD NVNT BLE 2480MHz

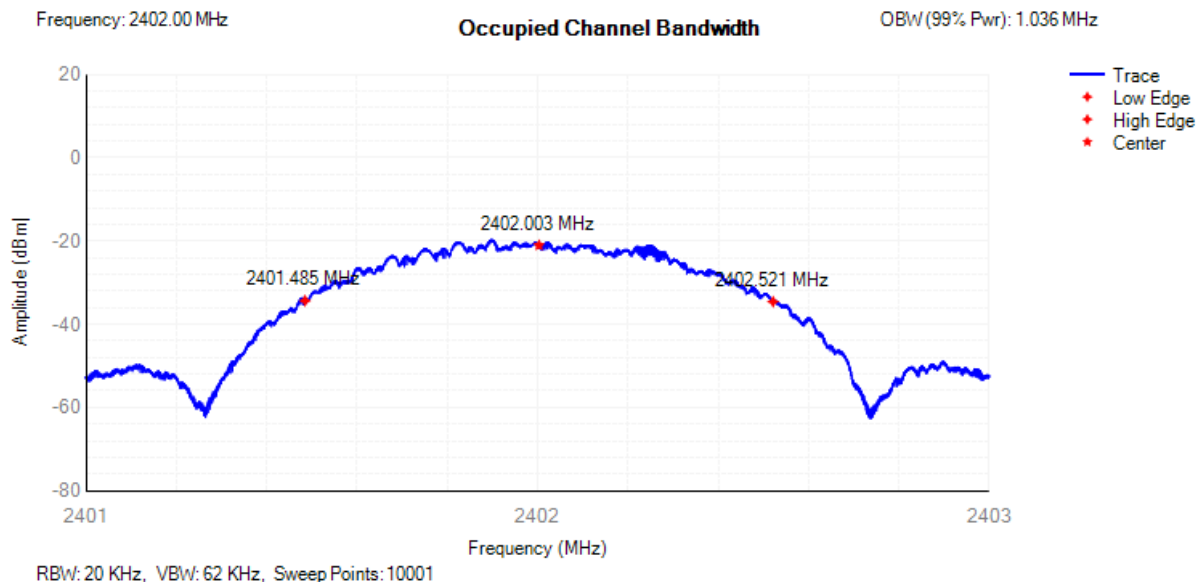




### F.3 Occupied Channel Bandwidth

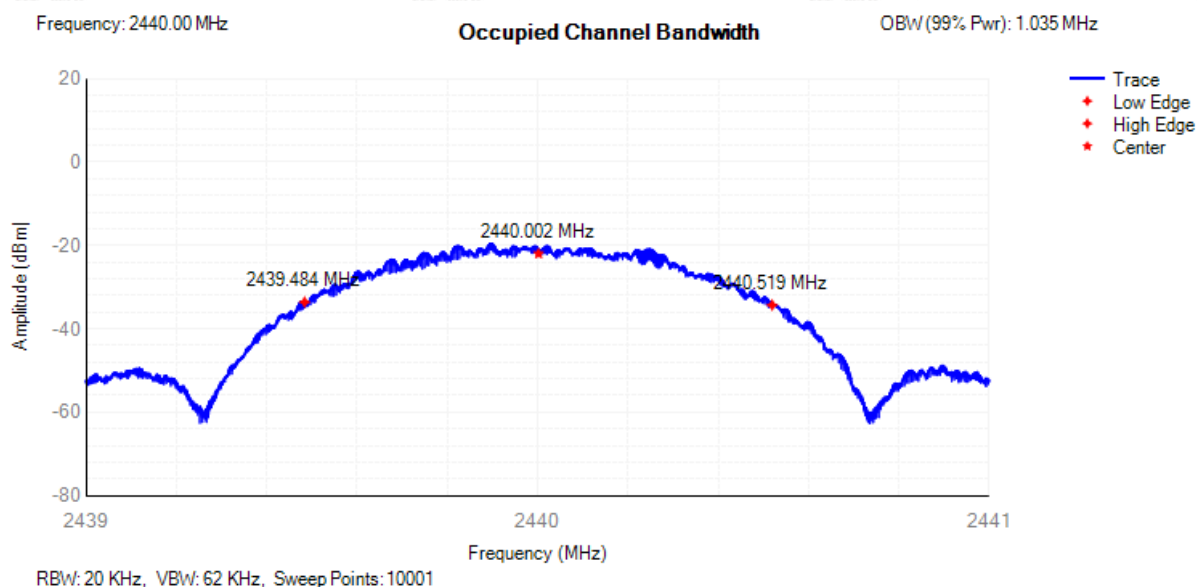
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE	2402	2402.003	1.036	2401.485	2402.521	2400 - 2483.5MHz	Pass
NVNT	BLE	2440	2440.002	1.035	2439.484	2440.519	2400 - 2483.5MHz	Pass
NVNT	BLE	2480	2480	1.036	2479.482	2480.518	2400 - 2483.5MHz	Pass

OBW NVNT BLE 2402MHz

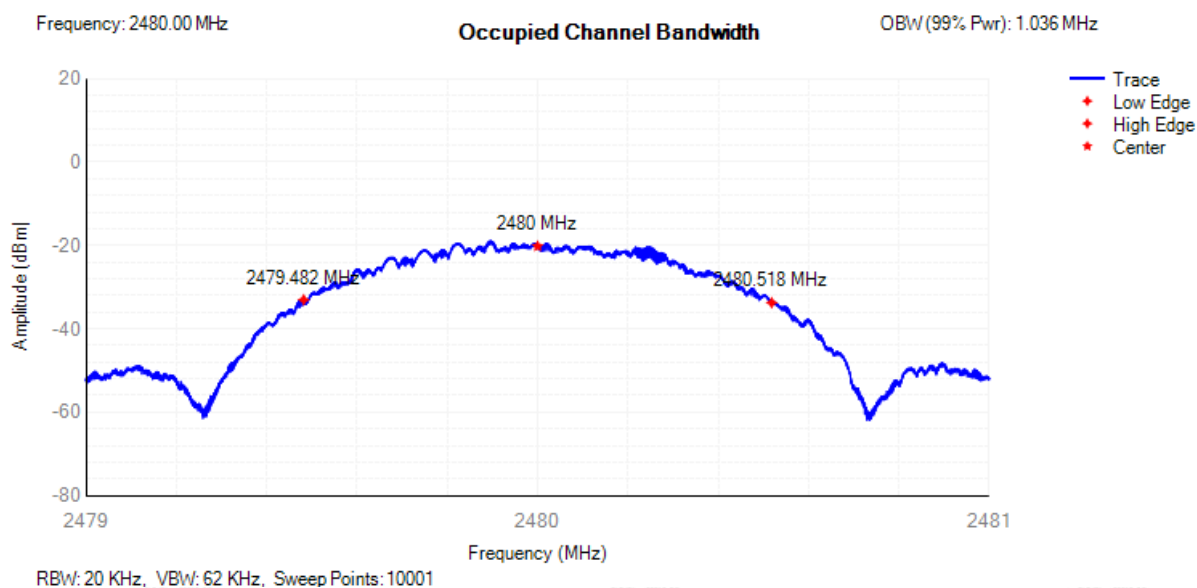




## OBW NVNT BLE 2440MHz



## OBW NVNT BLE 2480MHz

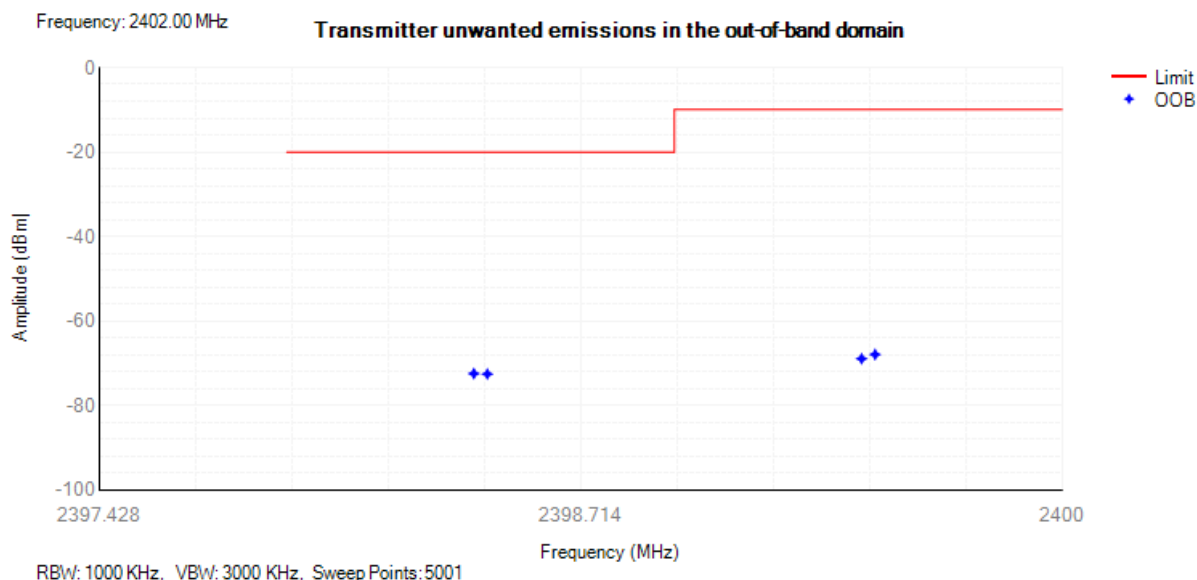




## F.4 Transmitter unwanted emissions in the out-of-band domain

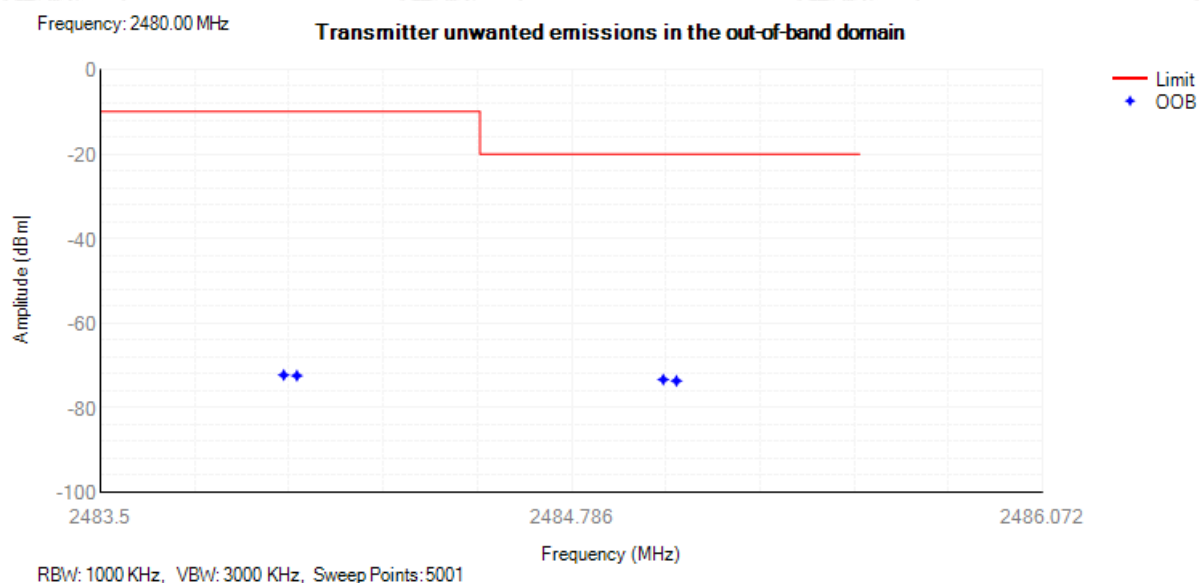
Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	2399.5	-67.92	-10	Pass
NVNT	BLE	2402	2399.464	-68.91	-10	Pass
NVNT	BLE	2402	2398.464	-72.53	-20	Pass
NVNT	BLE	2402	2398.428	-72.43	-20	Pass
NVNT	BLE	2480	2484	-72.3	-10	Pass
NVNT	BLE	2480	2484.036	-72.46	-10	Pass
NVNT	BLE	2480	2485.036	-73.37	-20	Pass
NVNT	BLE	2480	2485.072	-73.69	-20	Pass

Tx. Emissions OOB NVNT BLE 2402MHz





## Tx. Emissions OOB NVNT BLE 2480MHz



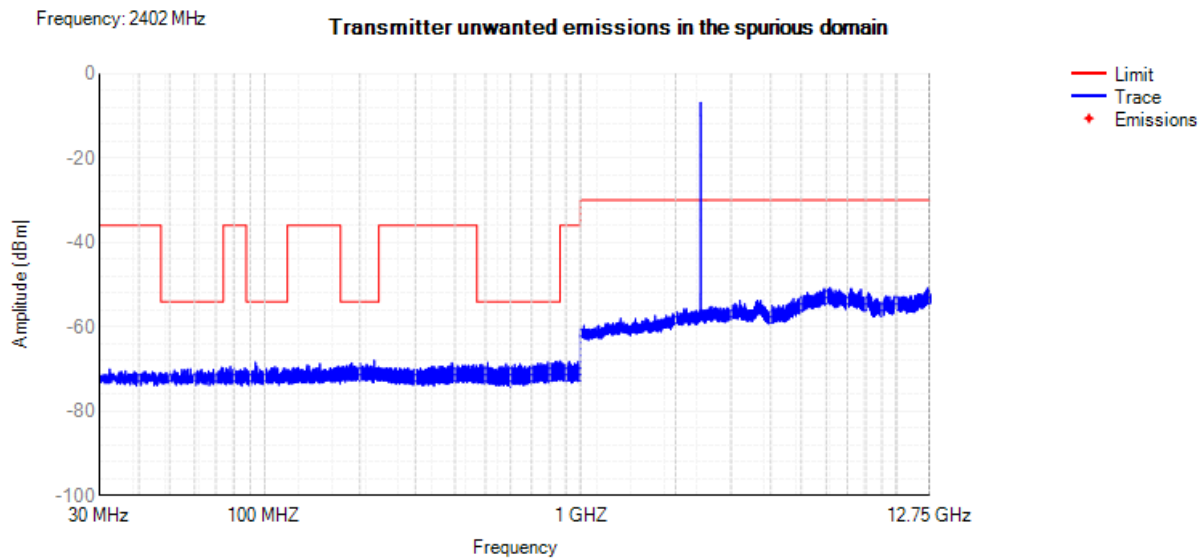




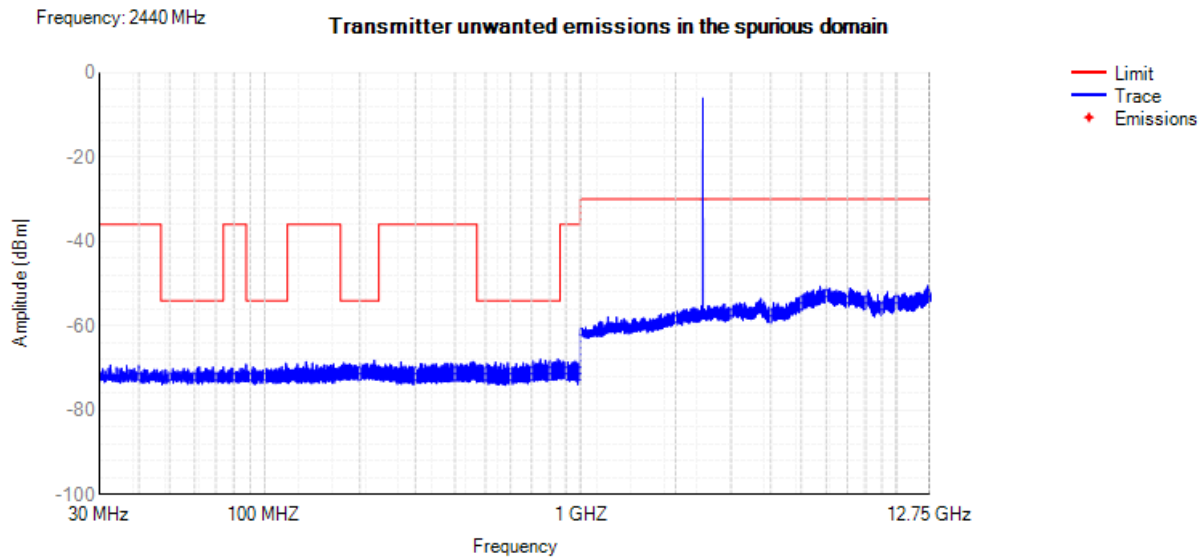
## F.5 Transmitter unwanted emissions in the spurious domain

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

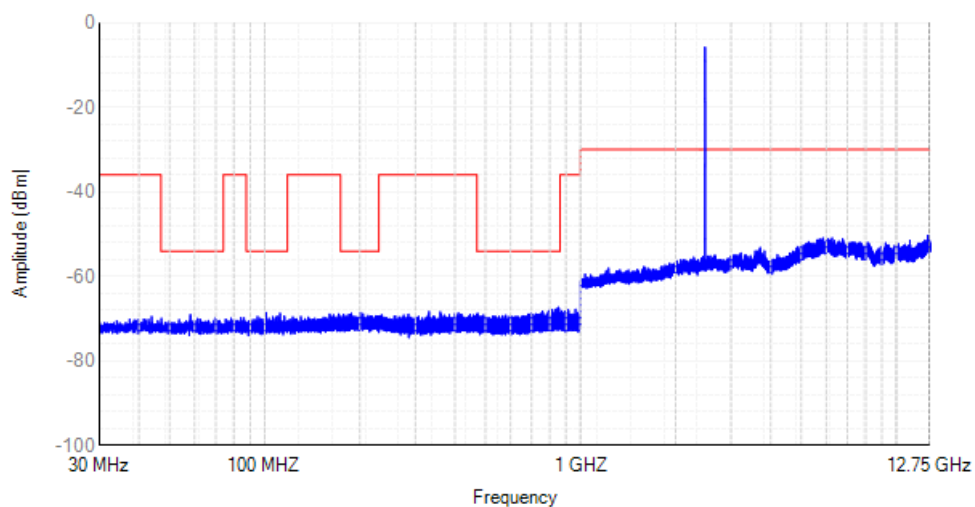




## Tx. Spurious NVNT BLE 2480MHz

Frequency: 2480 MHz

## Transmitter unwanted emissions in the spurious domain



— Limit  
— Trace  
+ Emissions

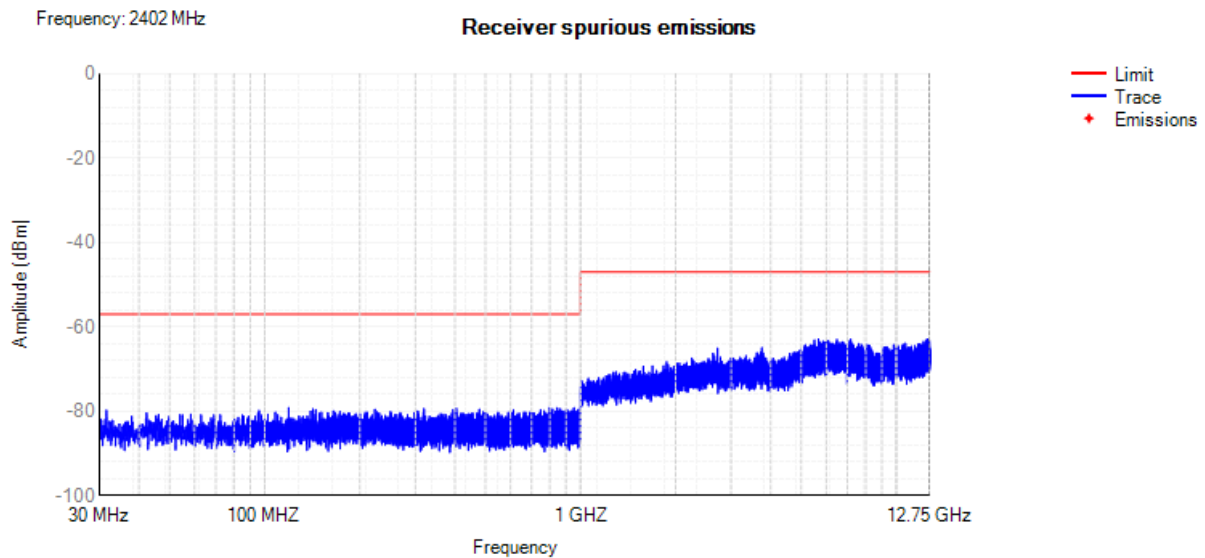




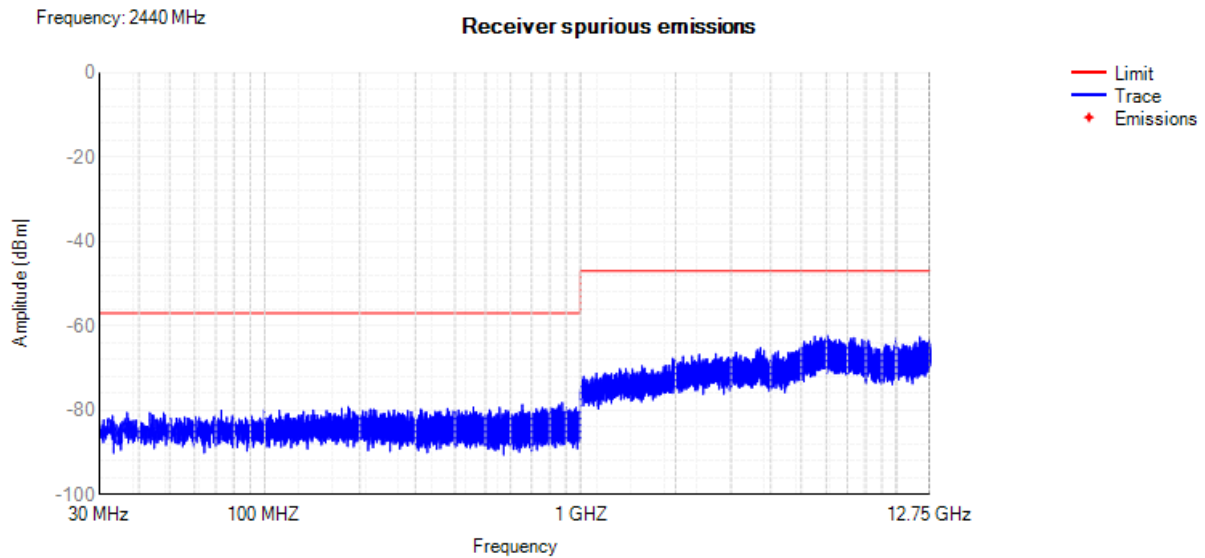
## F.6 Receiver spurious emissions

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

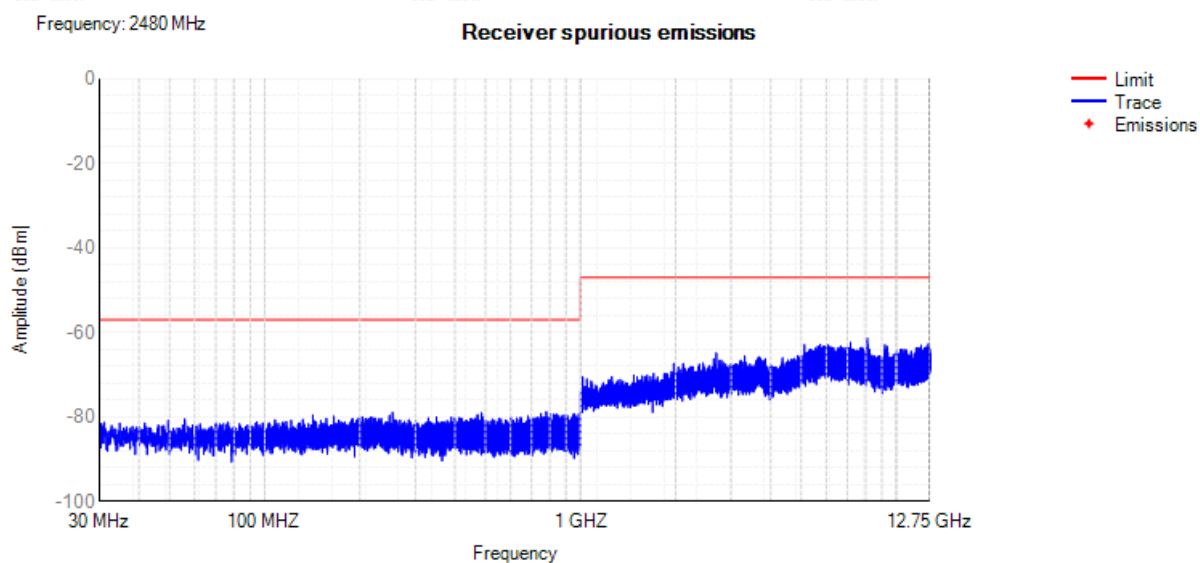


Rx. Spurious NVNT BLE 2440MHz





## 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	2.76	10	Pass
			2504	-22	≥-34	CW	3.91	10	Pass
			2300	-26	≥-34	CW	1.89	10	Pass
			2584	-24	≥-34	CW	2.91	10	Pass
	2480	-59	2380	-29	≥-34	CW	3.93	10	Pass
			2504	-25	≥-34	CW	3.05	10	Pass
			2300	-28	≥-34	CW	4.22	10	Pass
			2584	-21	≥-34	CW	2.37	10	Pass

