

Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: Wattbike Performance Touchscreen

Trade Mark: WattbikePT1

Test Model: 80-000

FCC ID: 2AVJT-80-000

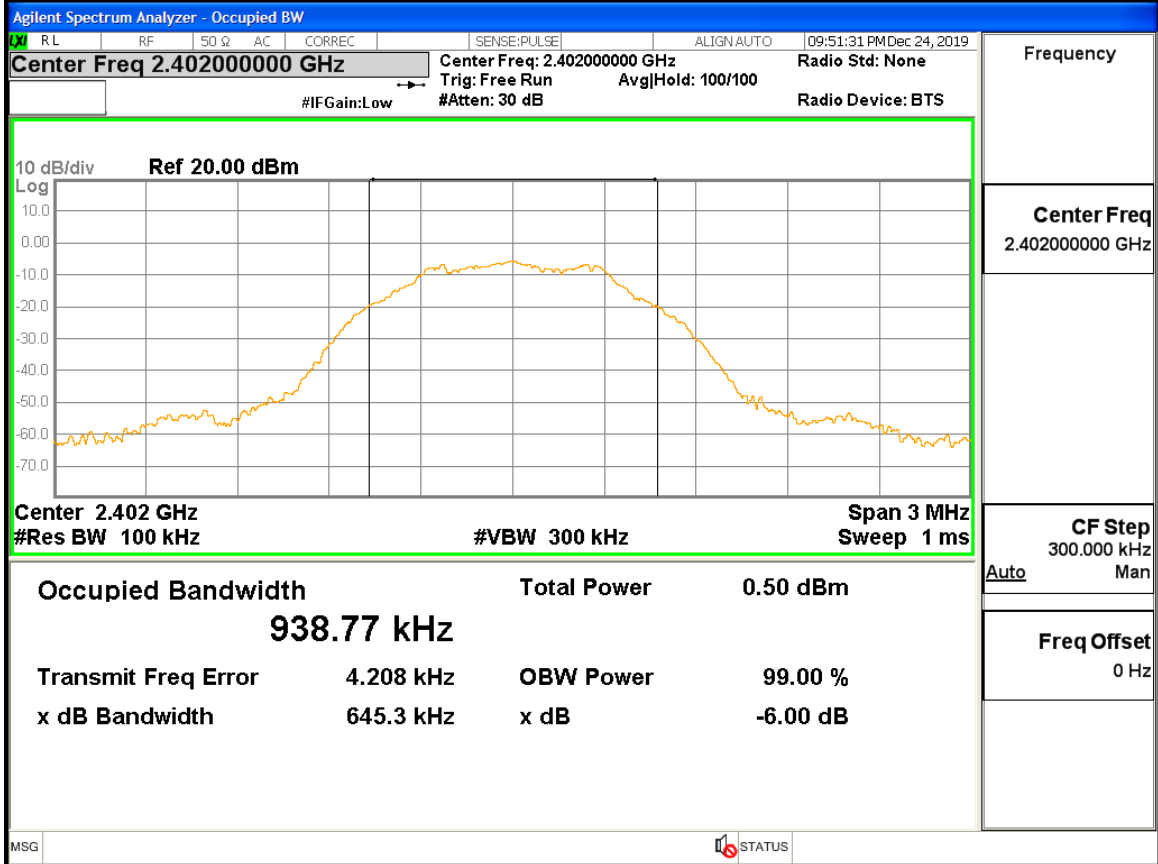
Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu
NOTE	Chipset/Module: nRF52832

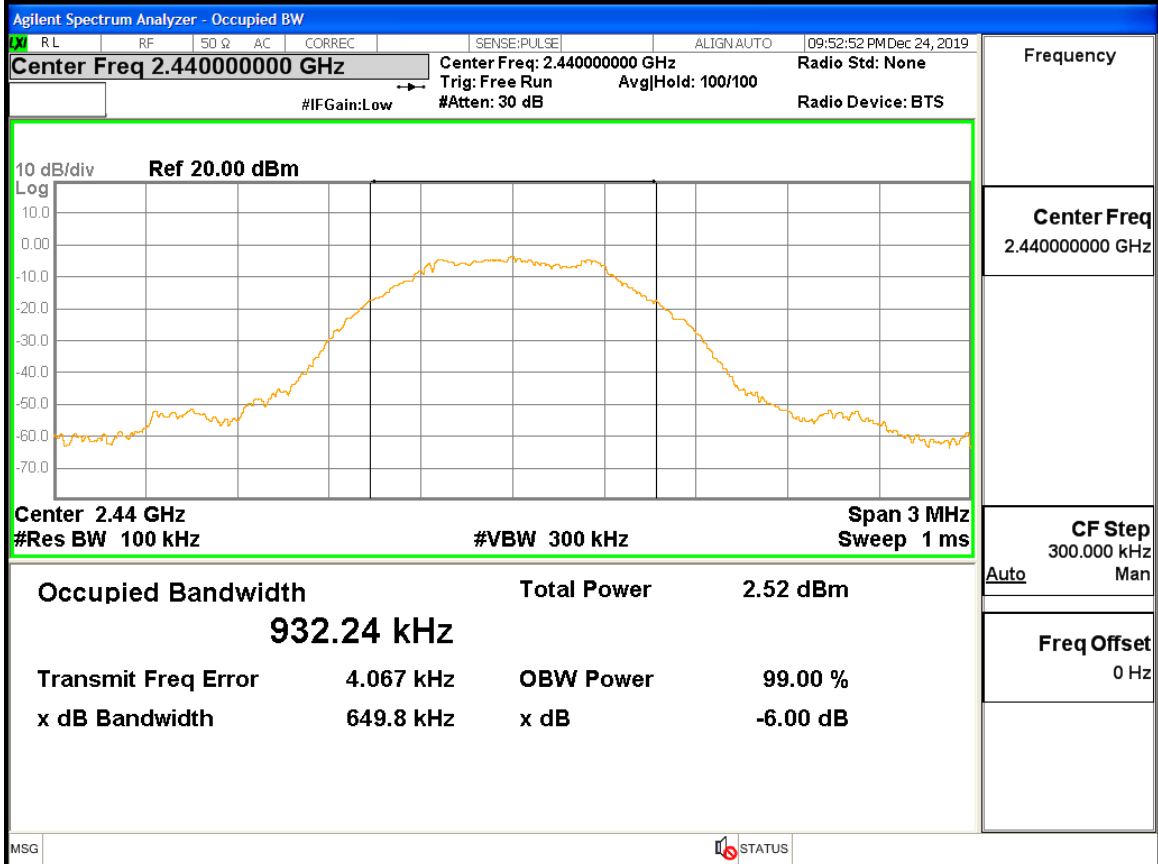
A.1. 6dB Bandwidth

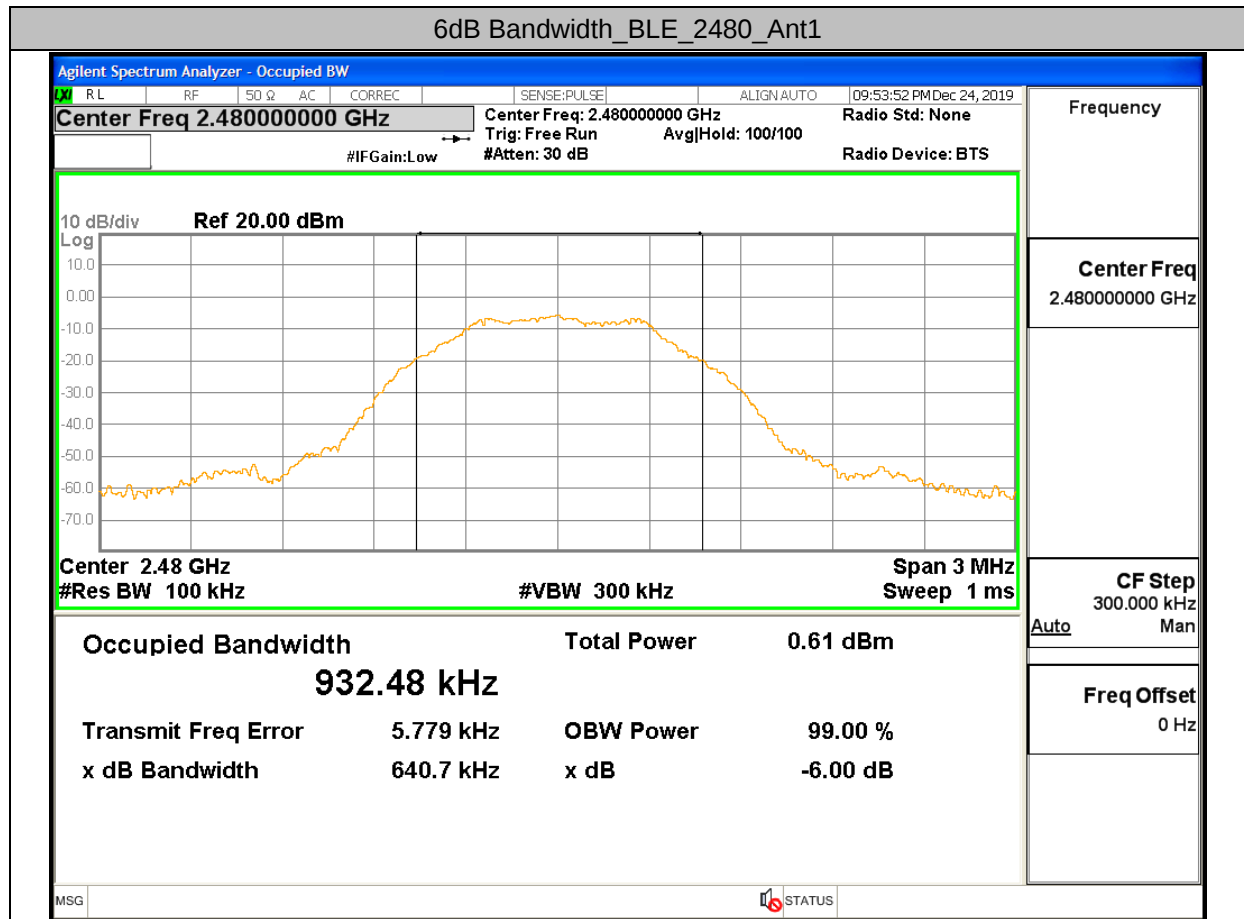
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.645	0.5	PASS
BLE	2440	Ant1	0.650	0.5	PASS
BLE	2480	Ant1	0.641	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1





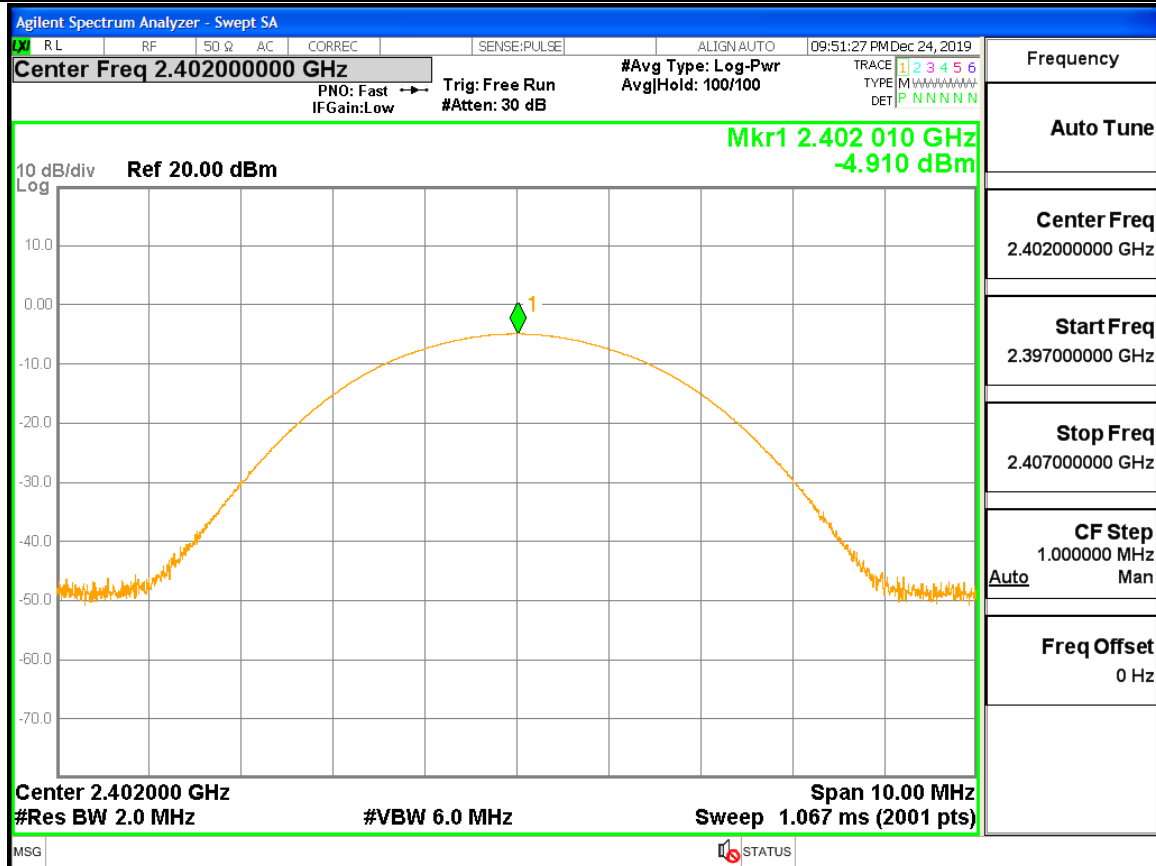
A.2. Occupied Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
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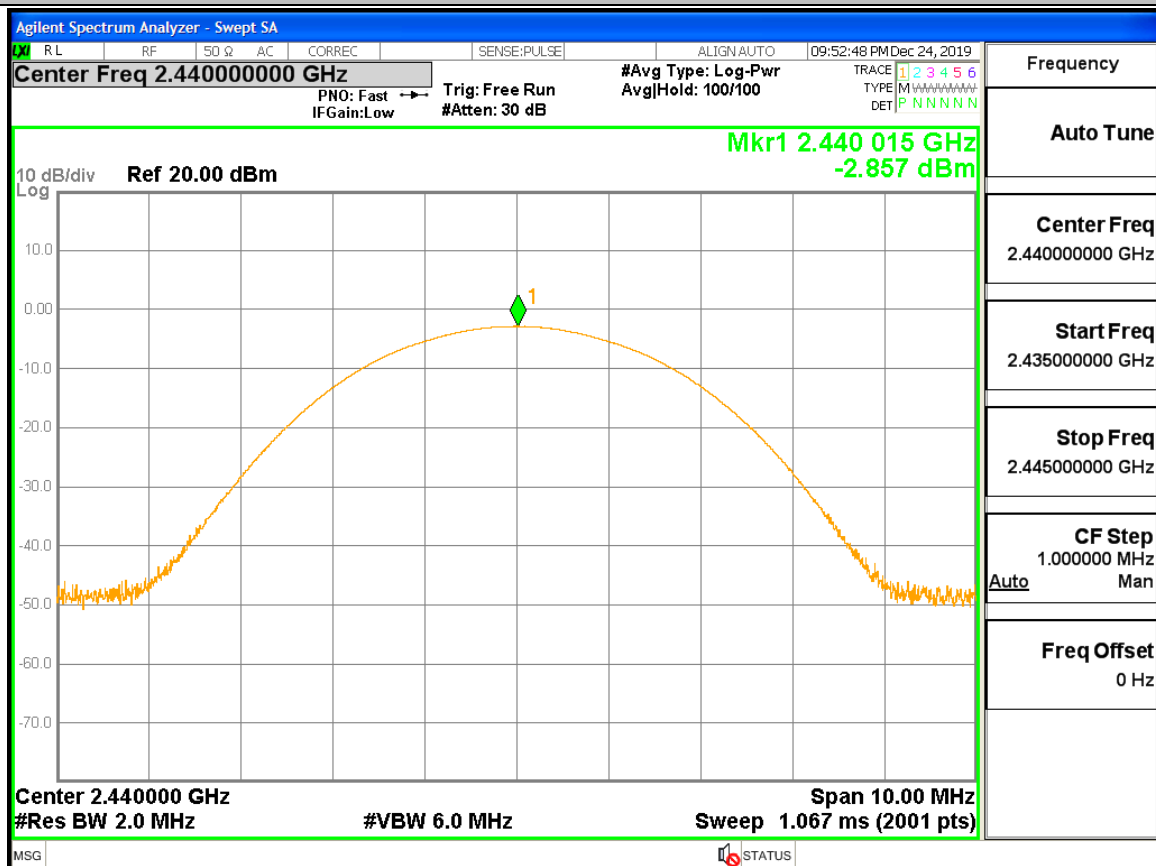
A.3. Maximum peak conducted output power

Test Mode	Test	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-4.910	30	PASS
BLE	2440	Ant1	-2.857	30	PASS
BLE	2480	Ant1	-4.827	30	PASS

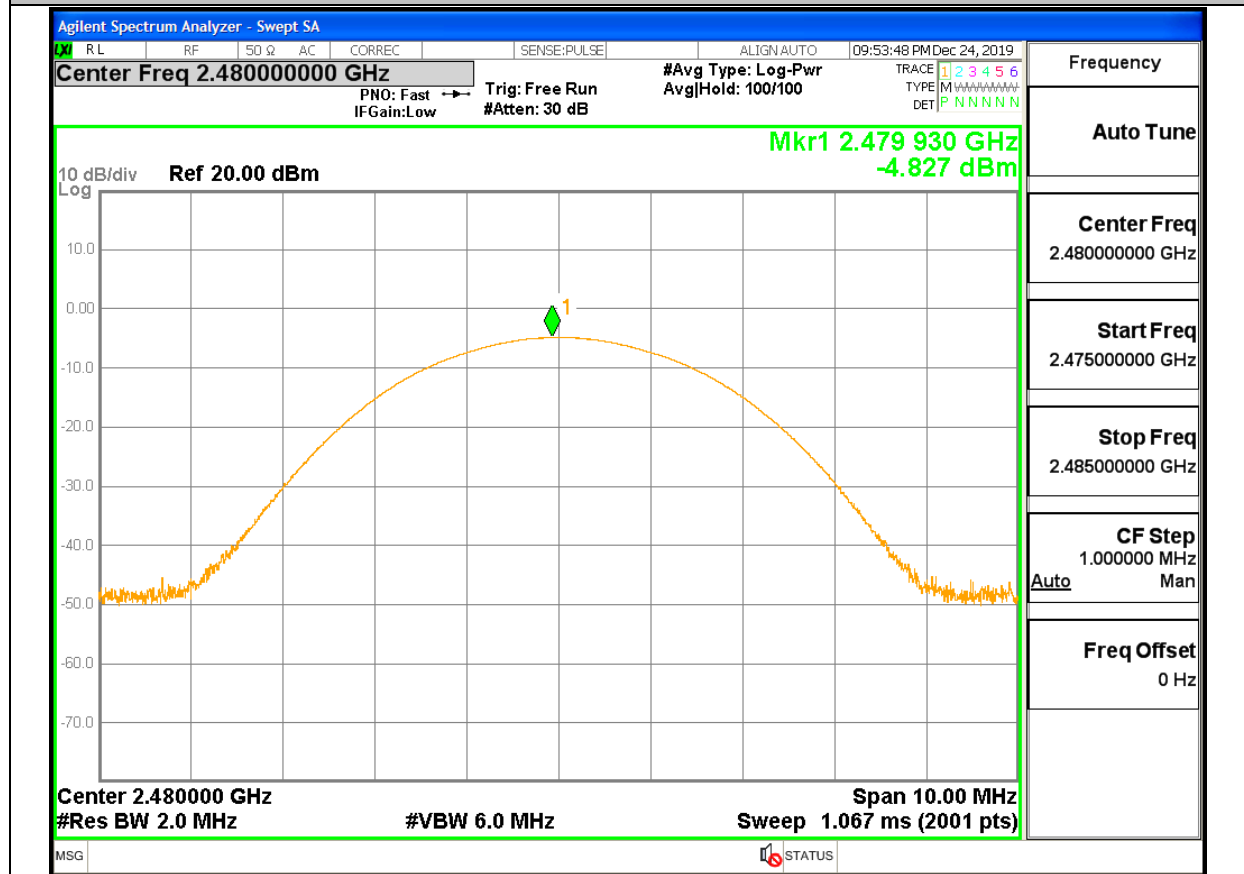
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



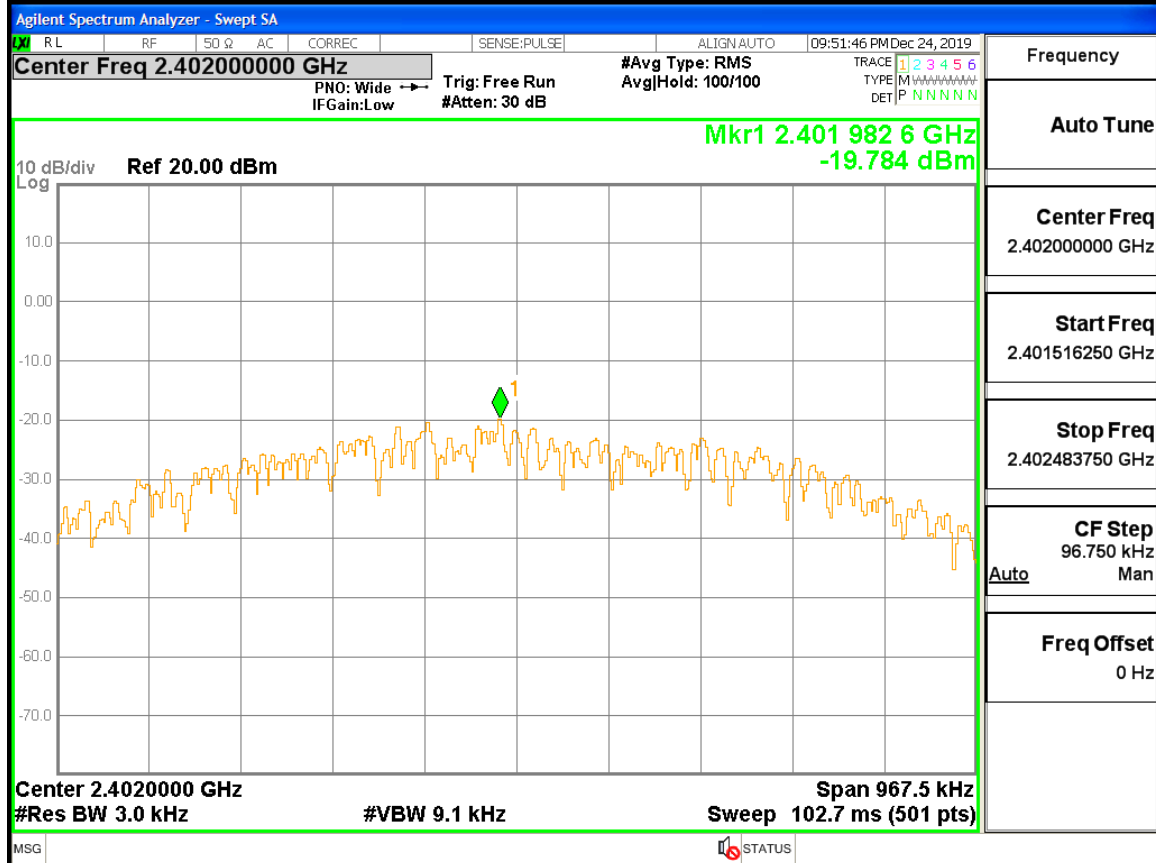
Maximum peak conducted output power_BLE_2480_Ant1



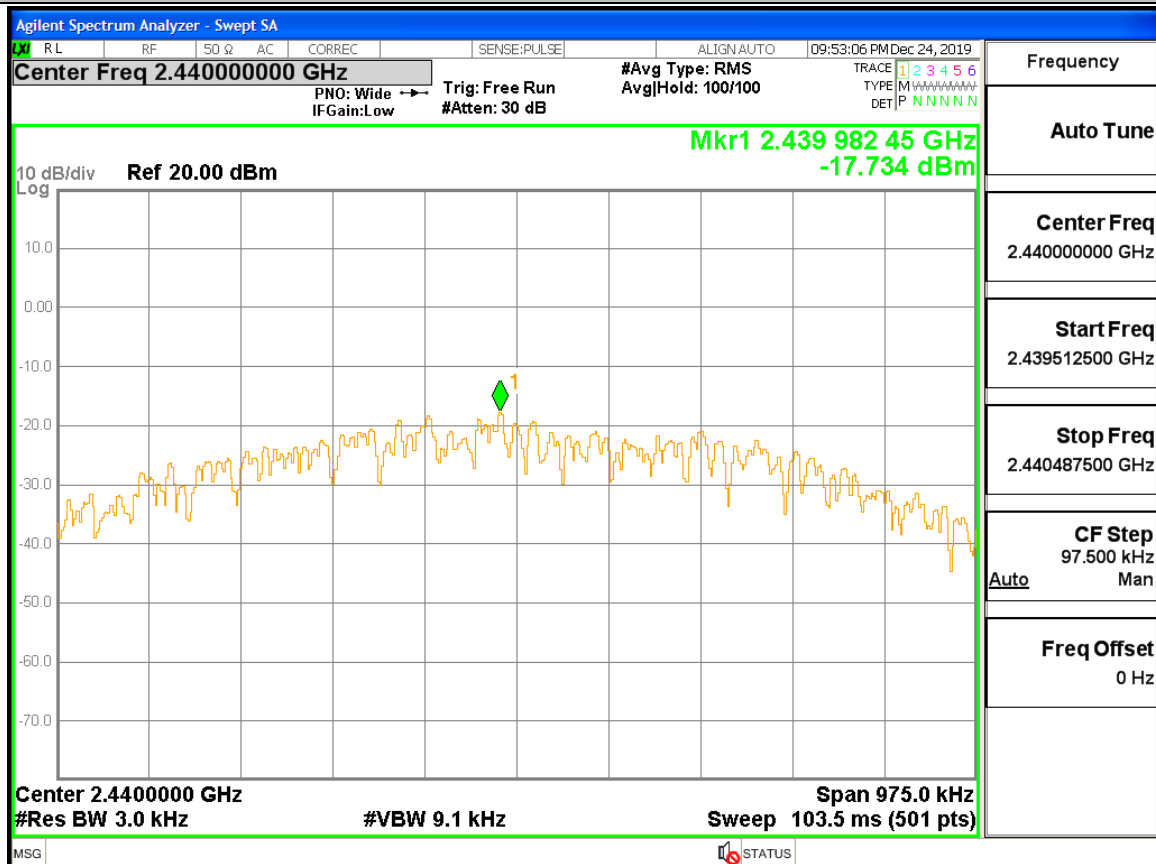
A.4. Maximum Peak power spectral density

Test	Test	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-19.784	8.00	PASS
BLE	2440	Ant1	-17.734	8.00	PASS
BLE	2480	Ant1	-19.732	8.00	PASS

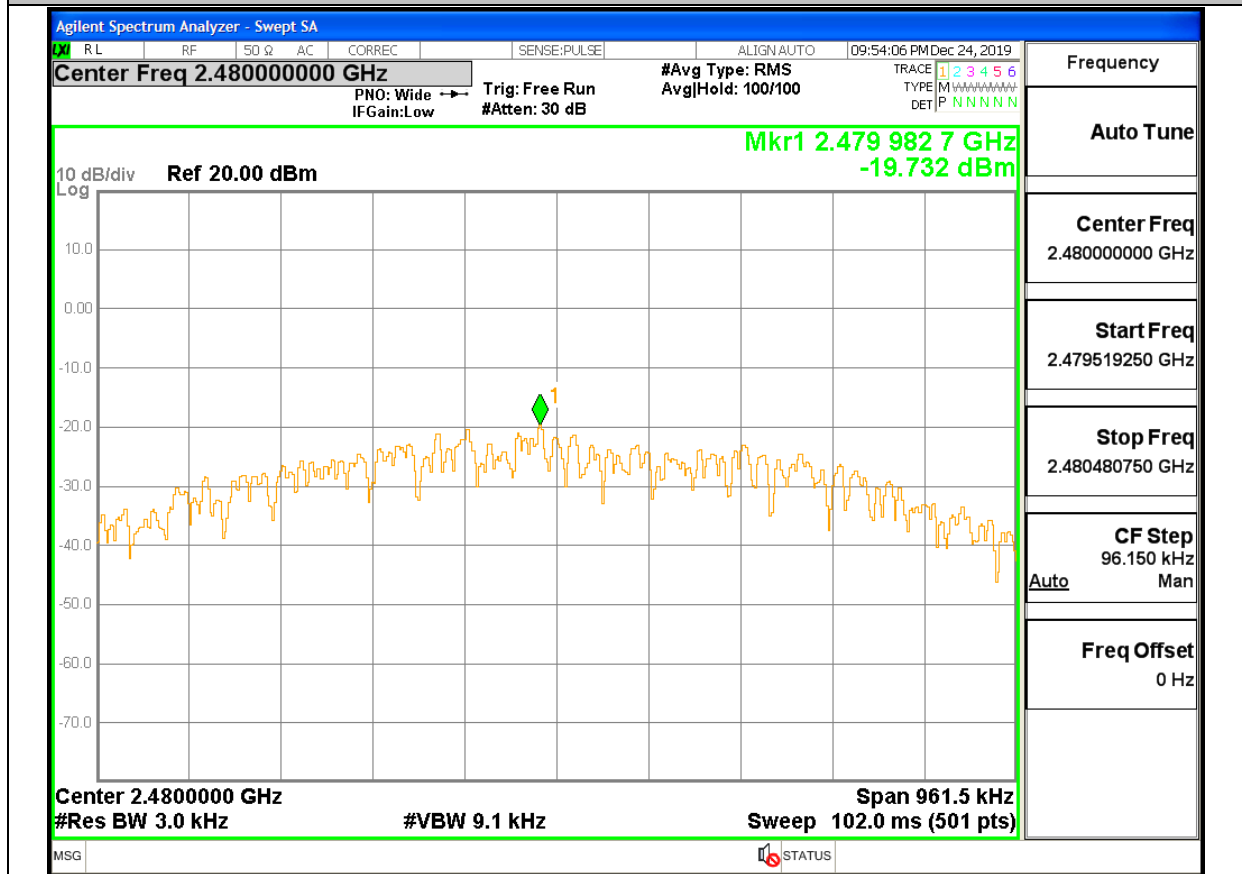
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



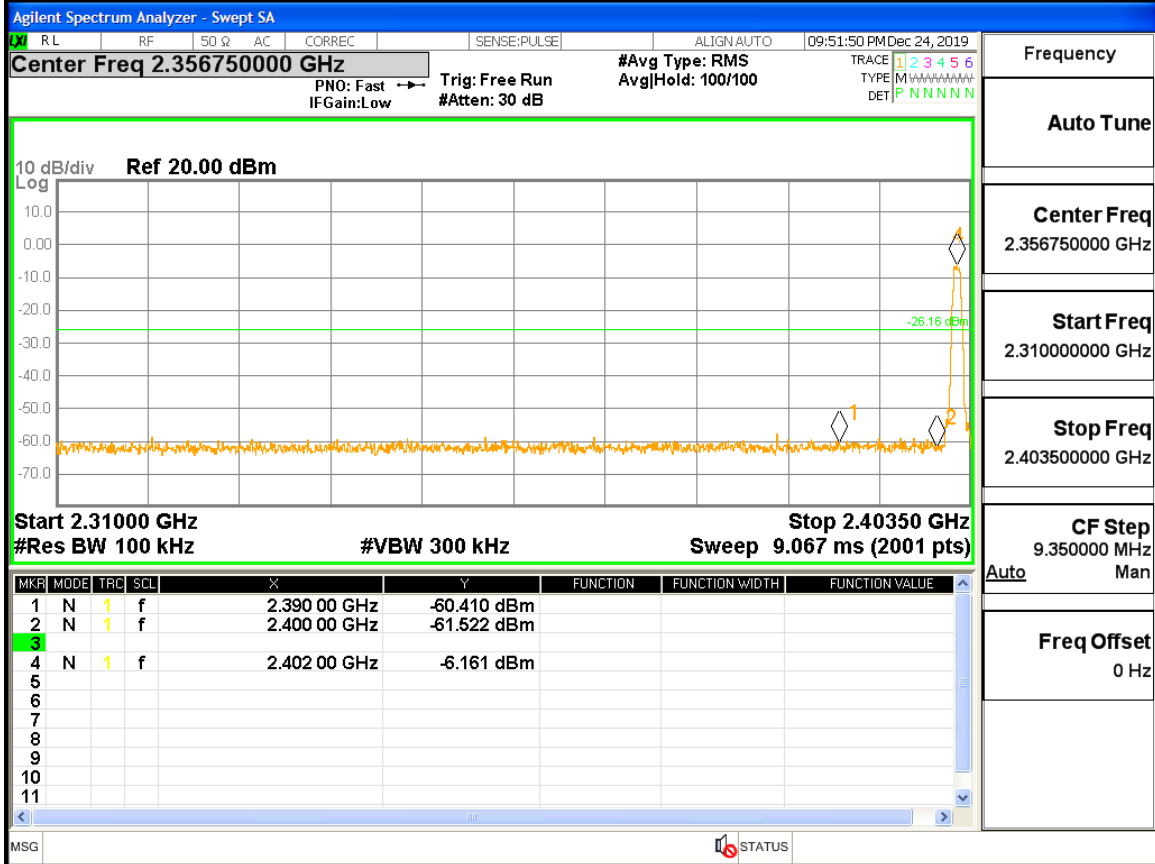
Maximum Peak power spectral density_BLE_2480_Ant1



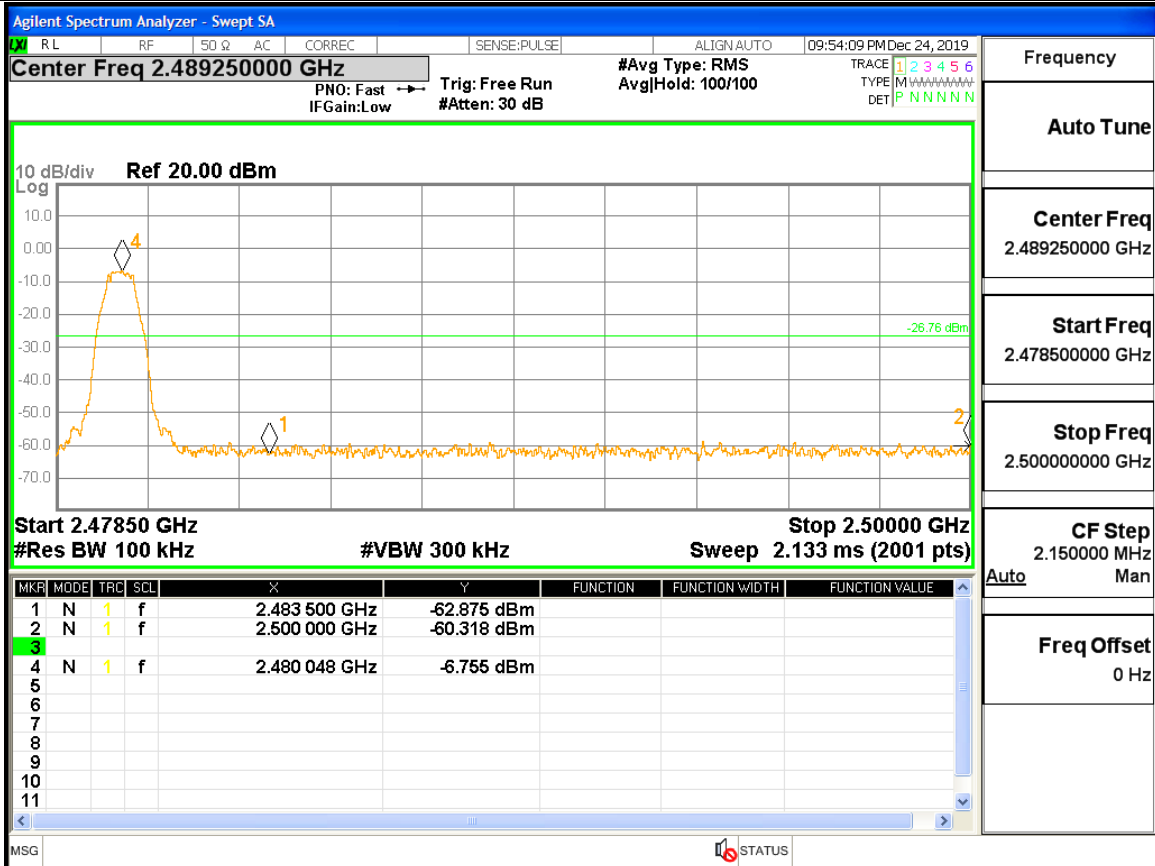
A.5. Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2390	-6.161	-60.41	-26.161	Pass
BLE	2480	2500	-6.755	-60.32	-26.755	Pass

Band-edge for RF Conducted Emissions_BLE_2402_Ant1

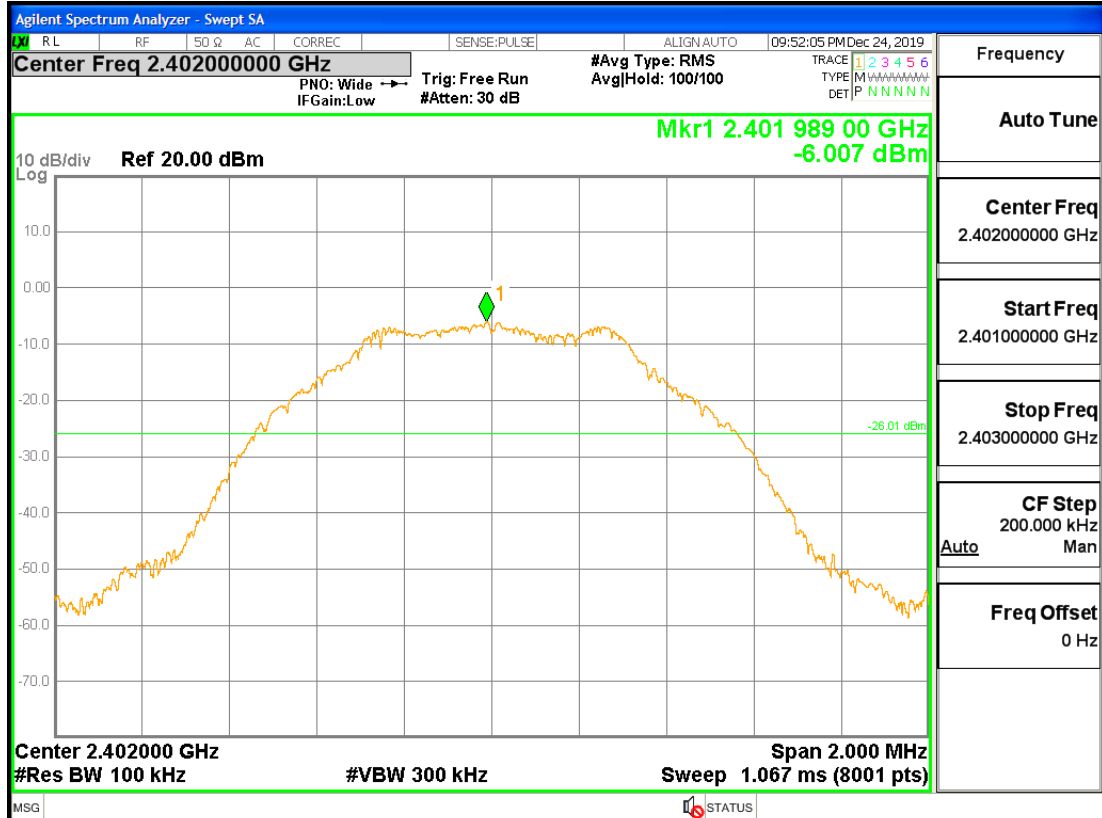


Band-edge for RF Conducted Emissions_BLE_2480_Ant1

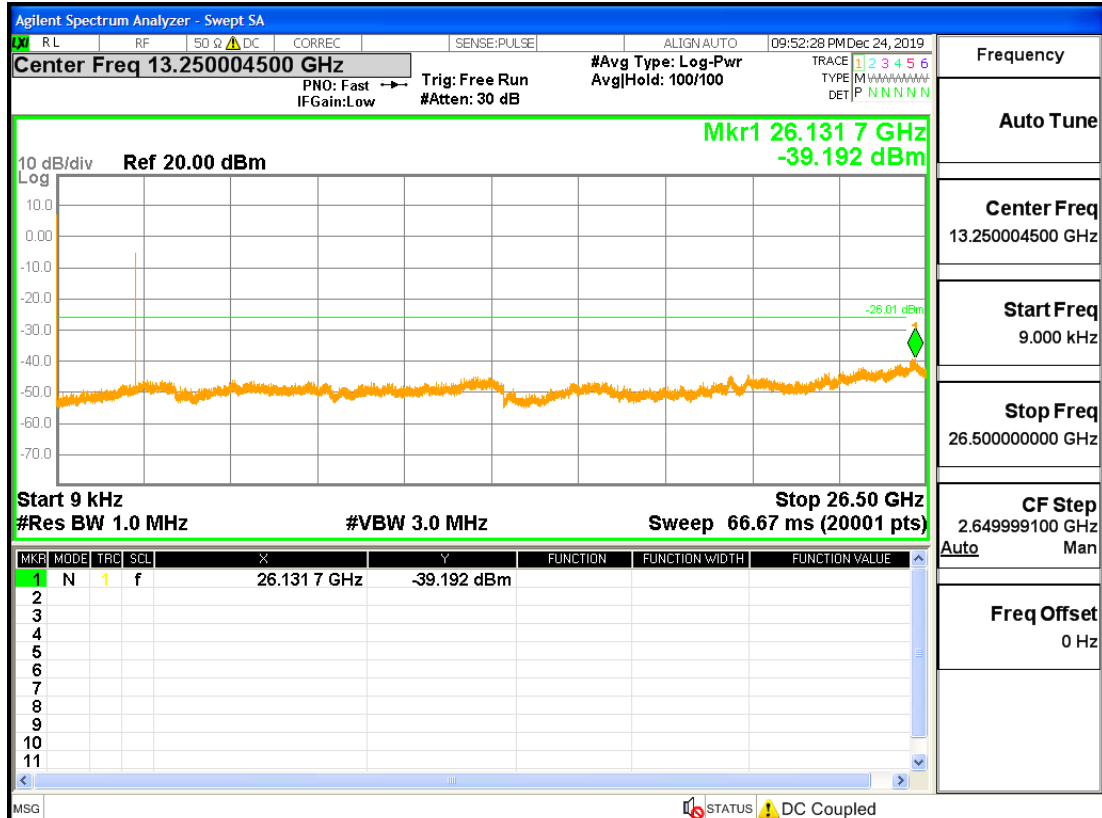


A.6. RF Conducted Spurious Emissions**RF Conducted Spurious Emissions_BLE_2402_Ant1**

Pref

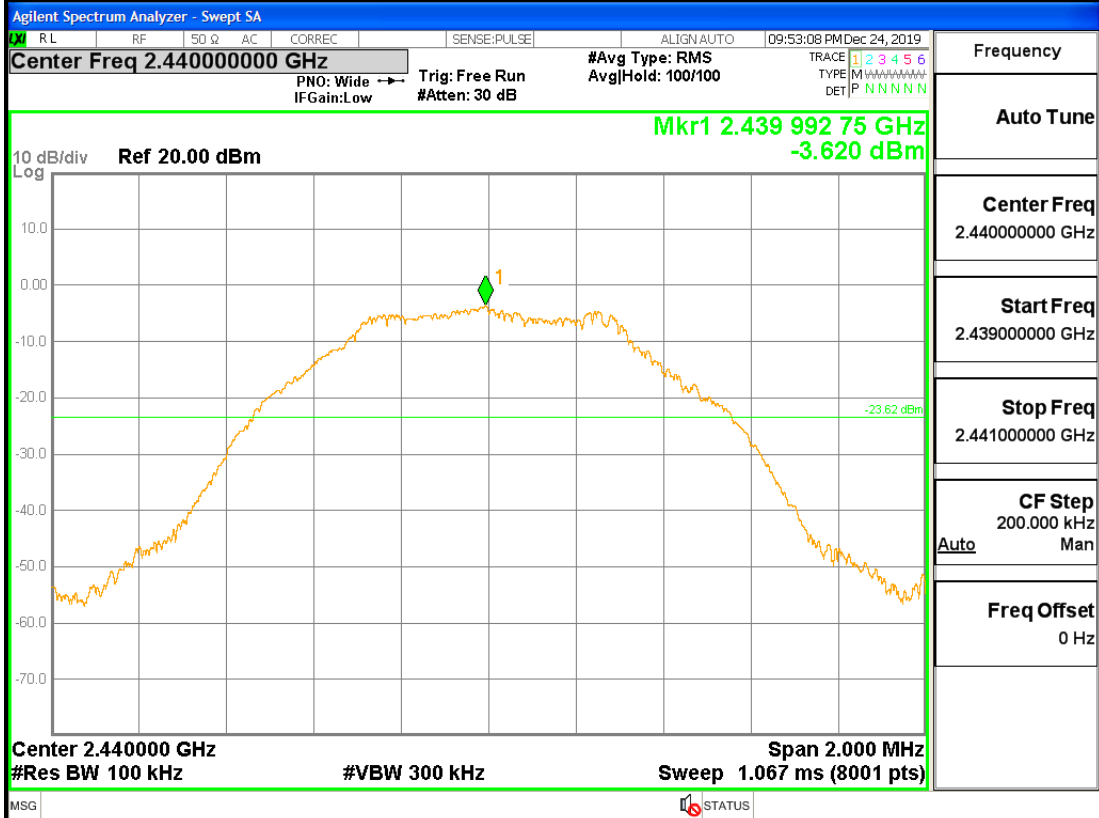


PuW

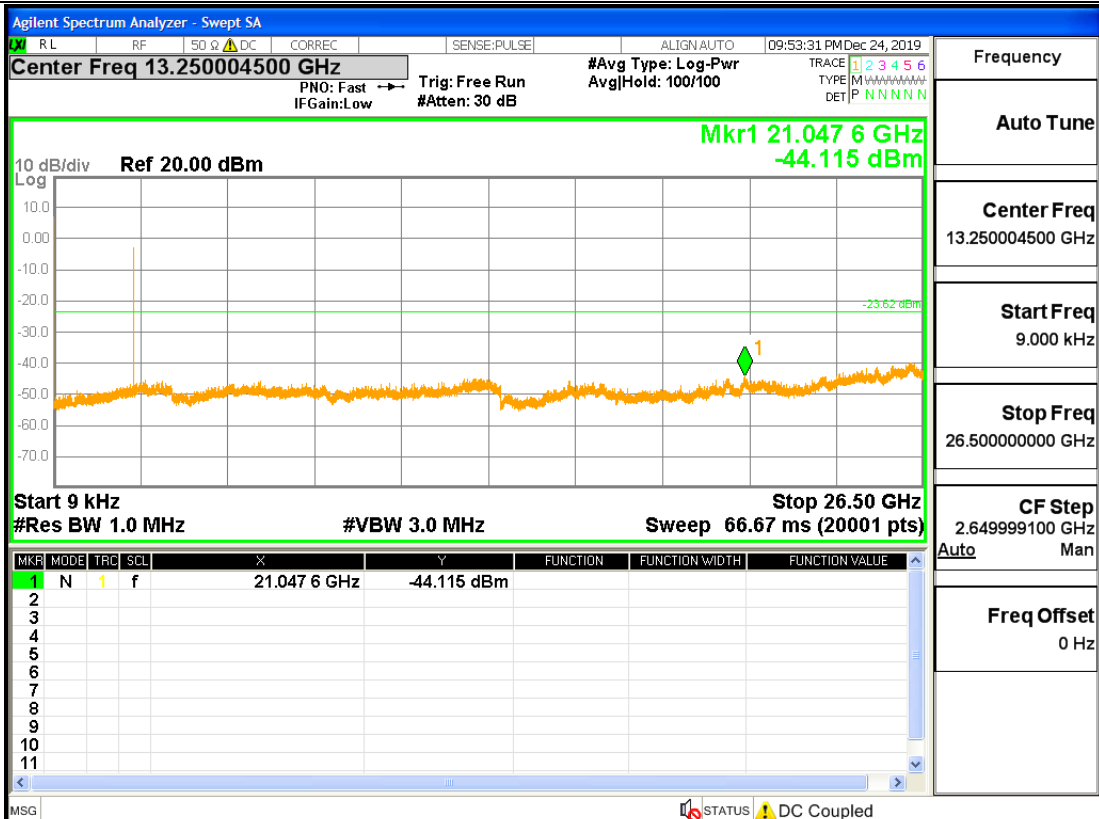


RF Conducted Spurious Emissions_BLE_2440_Ant1

Pref

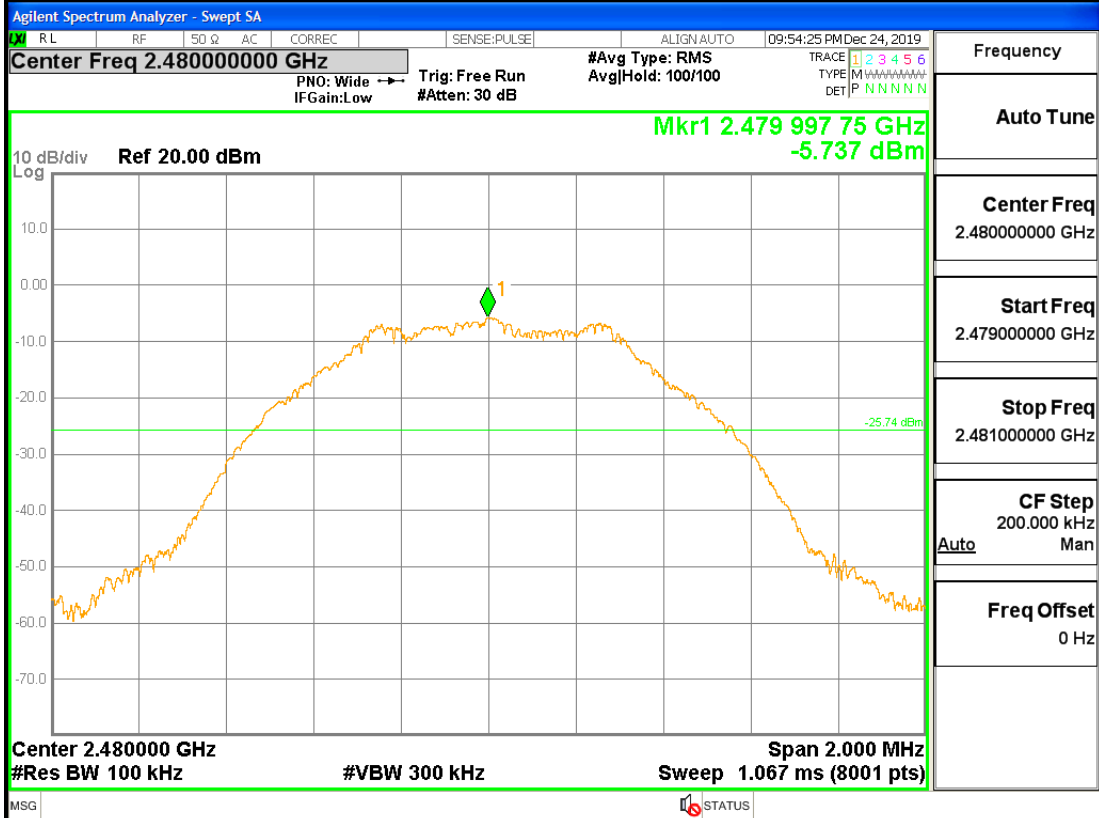


Puw

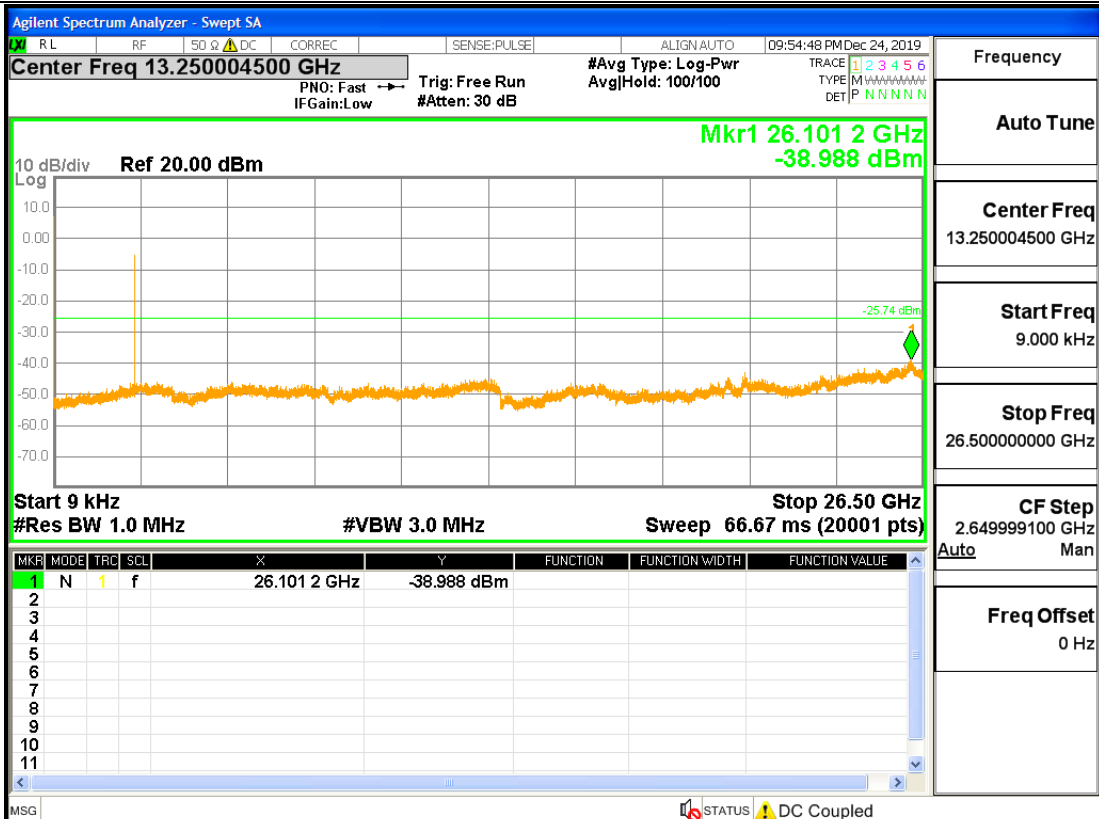


RF Conducted Spurious Emissions_BLE_2480_Ant1

Pref



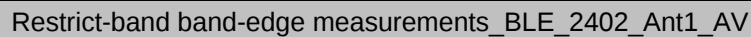
Puw

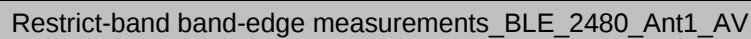


A.7. Restrict-band band-edge measurements

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2310	2.00	0.00	-50.029	47.171	74	Pass
BLE	2480	2500	2.00	0.00	-52.436	44.764	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2310	2.00	0.00	-58.013	39.187	54	Pass
BLE	2480	2500	2.00	0.00	-56.874	40.326	54	Pass





A.8. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	63.15	PASS

