

Appendix A

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

Product Name: 4K Set top box

Trade Mark: eSTREAM4K

Test Model: IPA1114HDW-02

FCC ID: 2AOVU-SN6BBAX

IC: 25669-IPA1114HDW

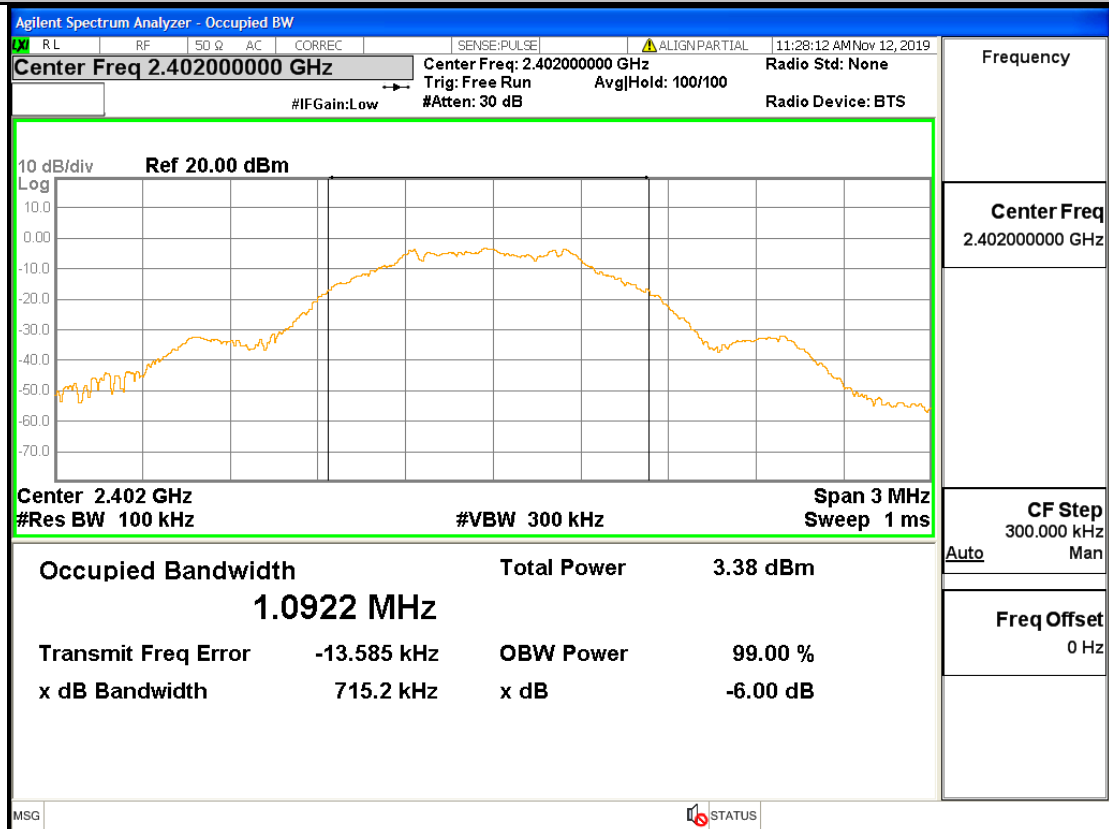
Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	52%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

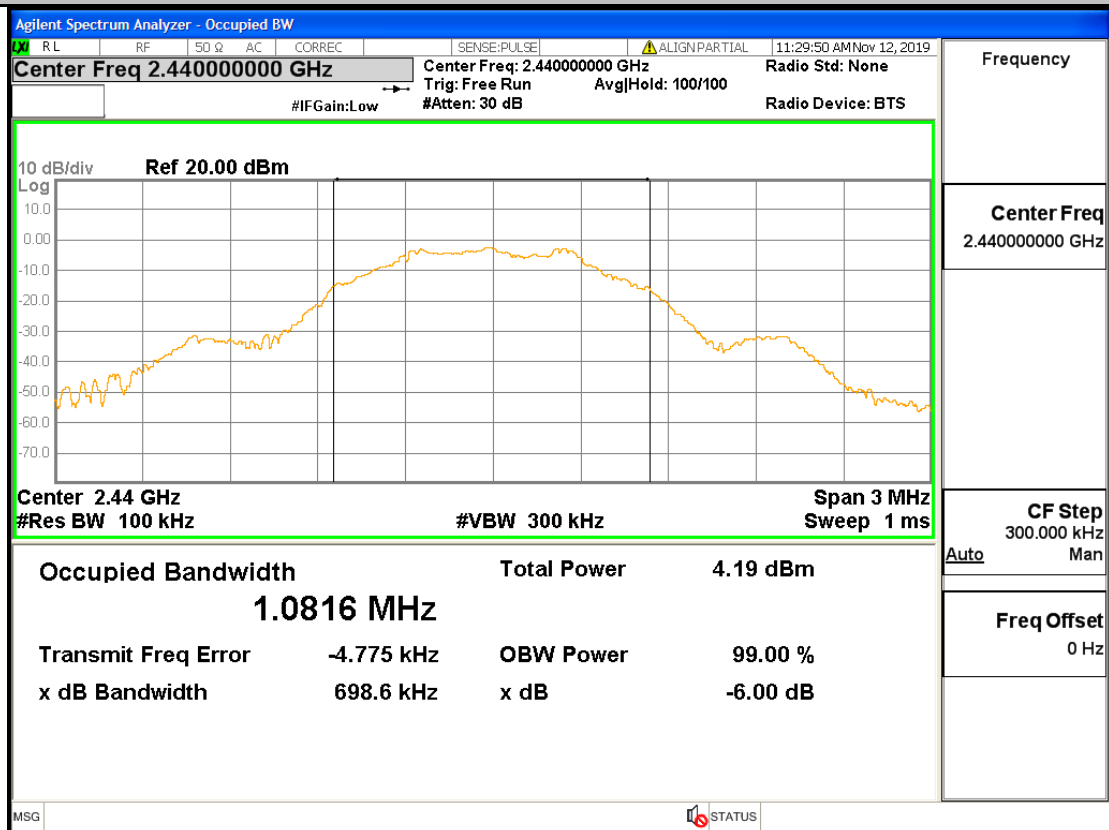
A.1. 6dB Bandwidth

Test Mode	Test	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.715	0.5	PASS
BLE	2440	Ant1	0.699	0.5	PASS
BLE	2480	Ant1	0.698	0.5	PASS

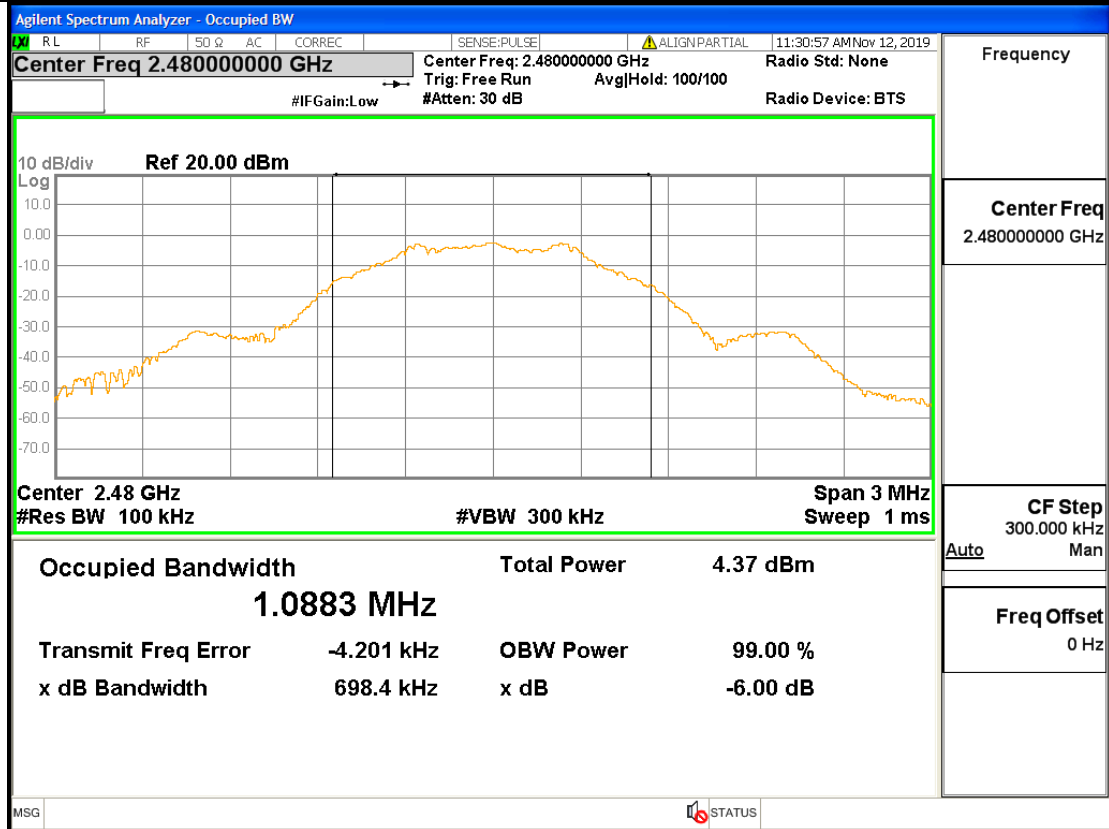
6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1

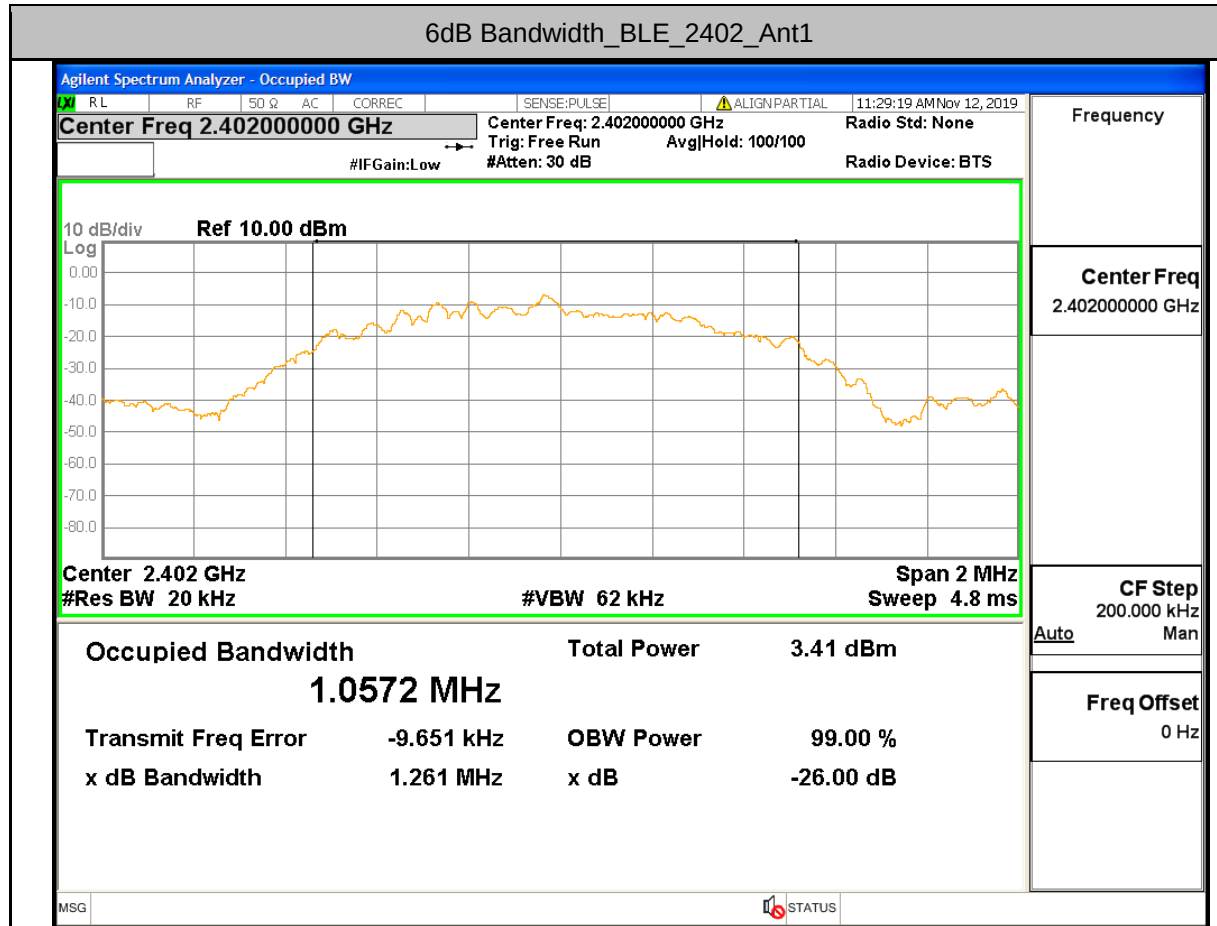


6dB Bandwidth_BLE_2480_Ant1

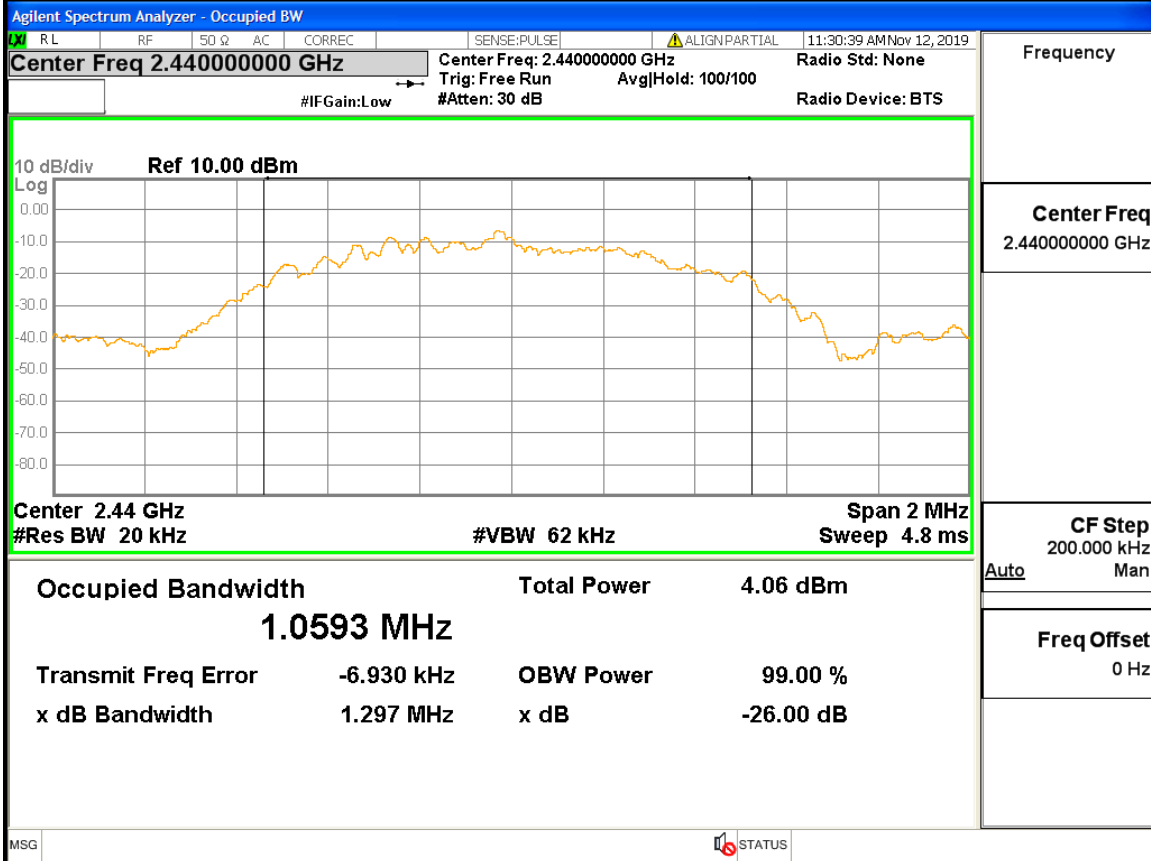


A.2. Occupied Bandwidth

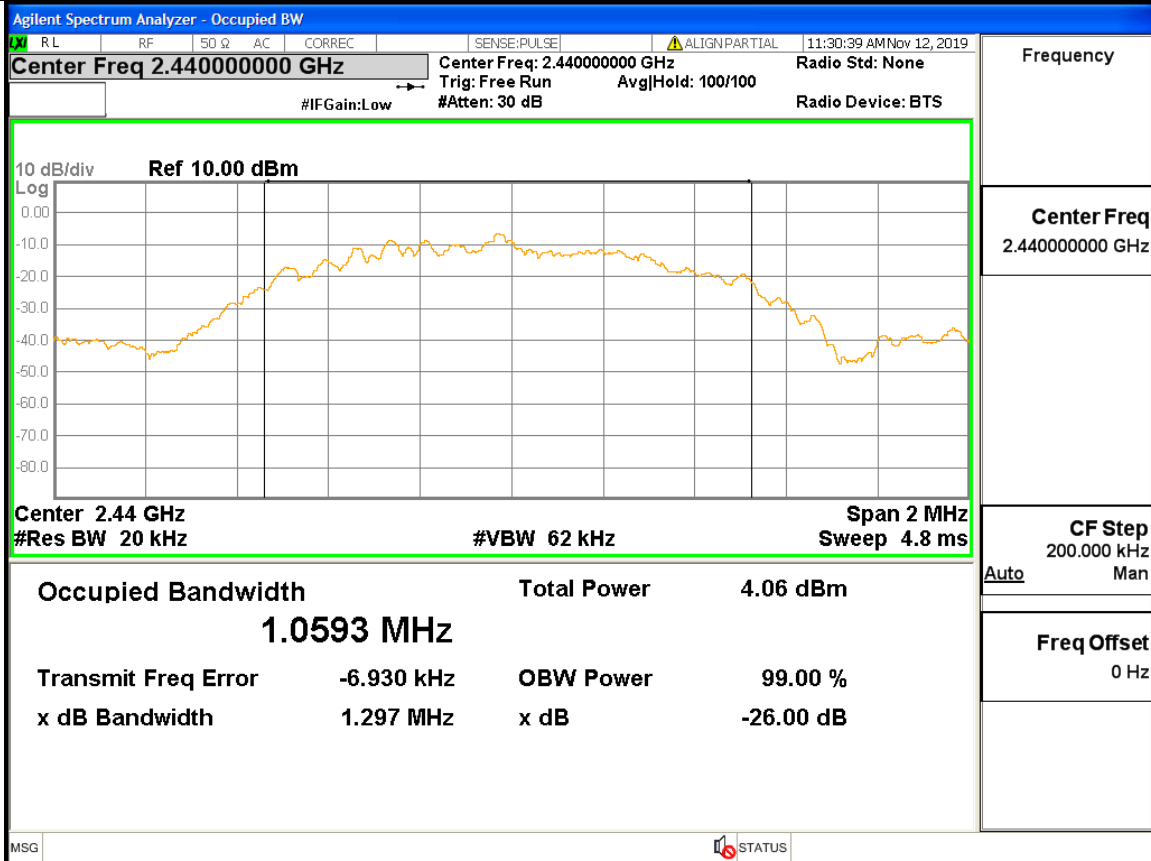
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	1.057	No limit	PASS
BLE	2440	Ant1	1.059	No limit	PASS
BLE	2480	Ant1	1.059	No limit	PASS



6dB Bandwidth_BLE_2440_Ant1



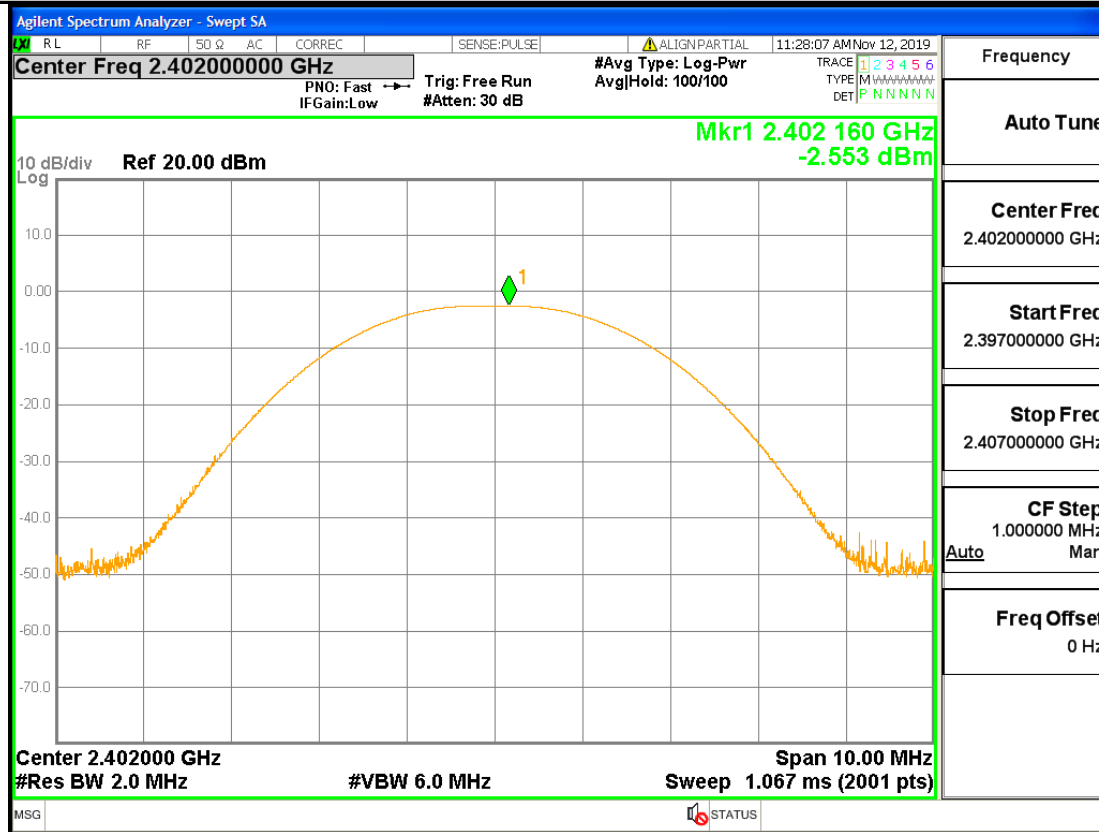
6dB Bandwidth_BLE_2480_Ant1



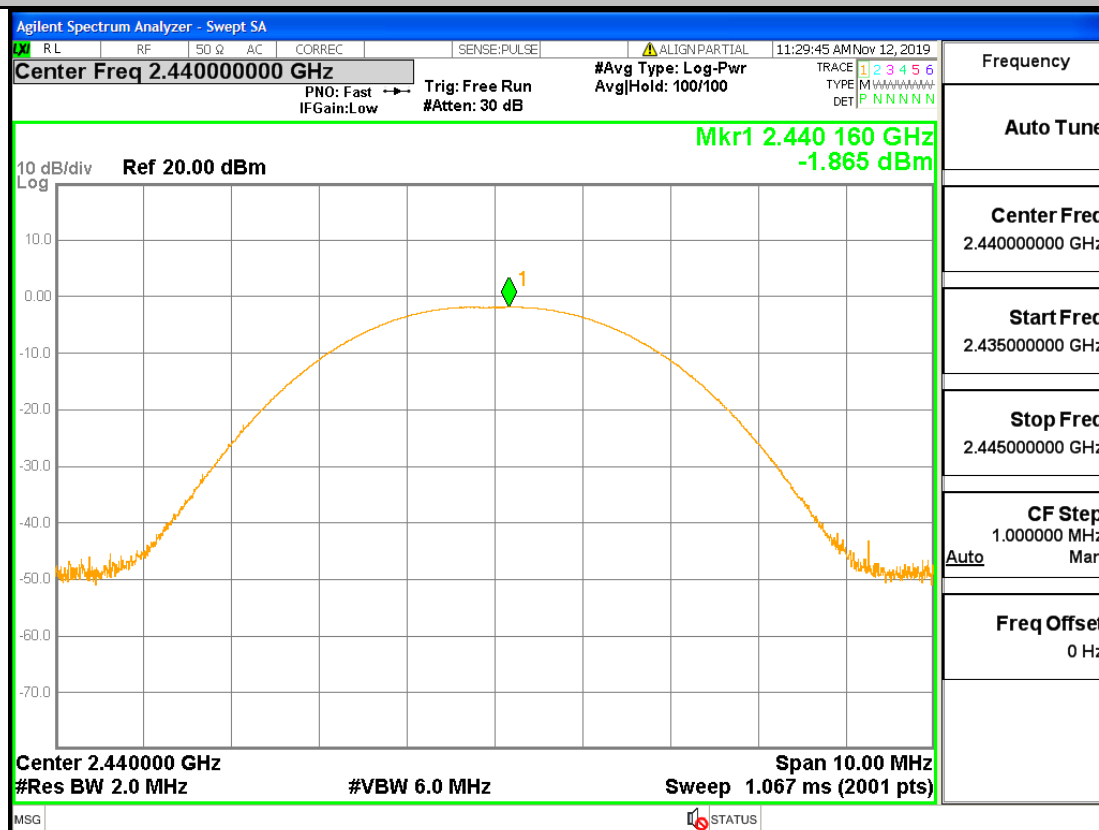
A.3. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-2.553	30	PASS
BLE	2440	Ant1	-1.865	30	PASS
BLE	2480	Ant1	-1.709	30	PASS

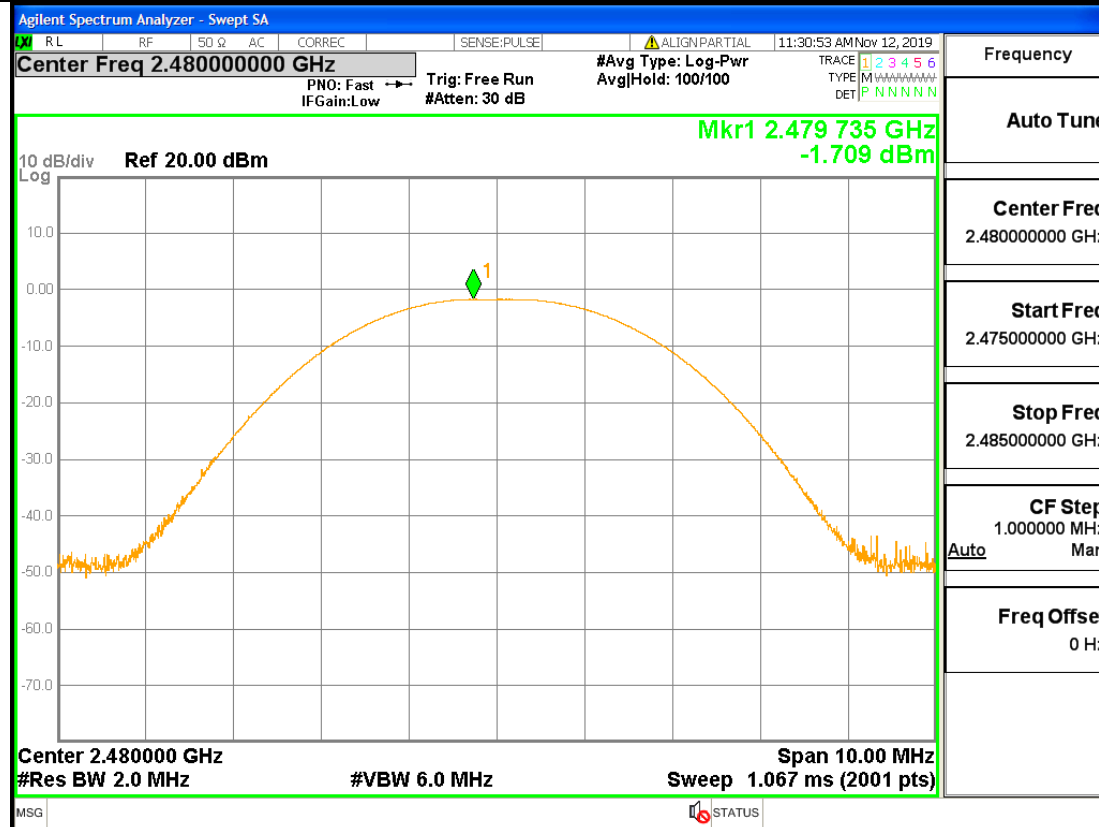
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



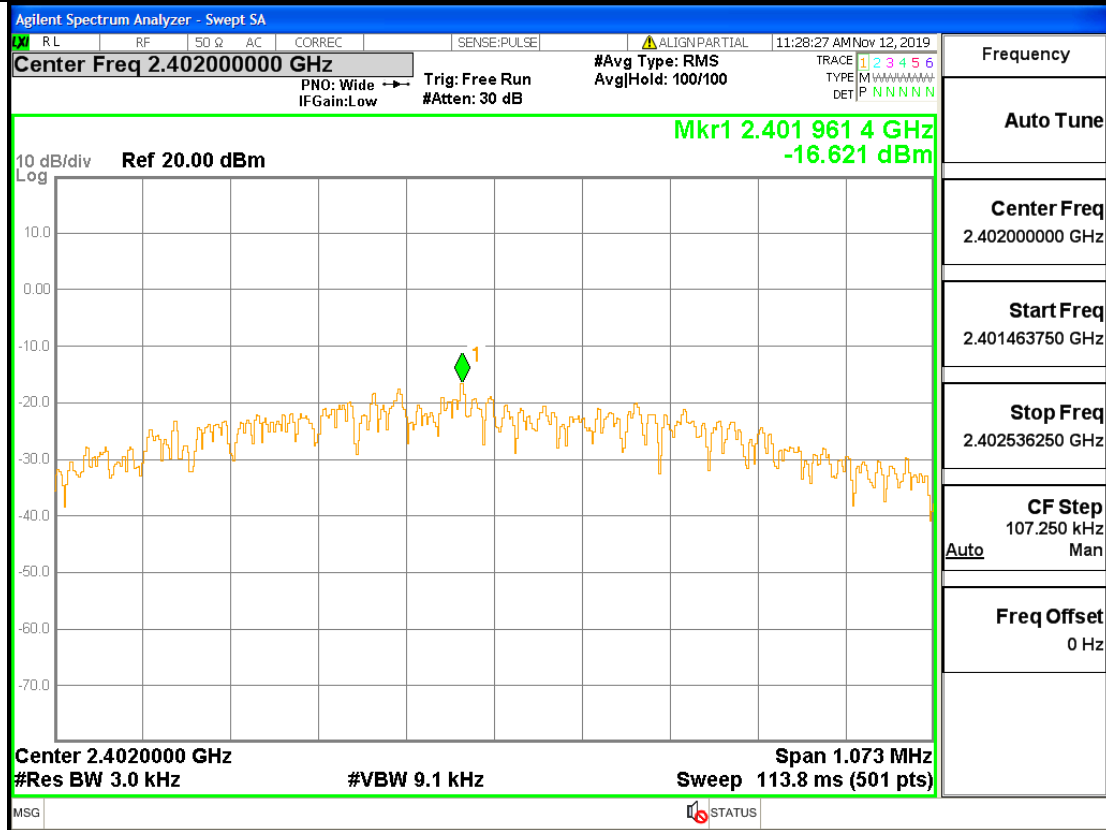
Maximum peak conducted output power_BLE_2480_Ant1



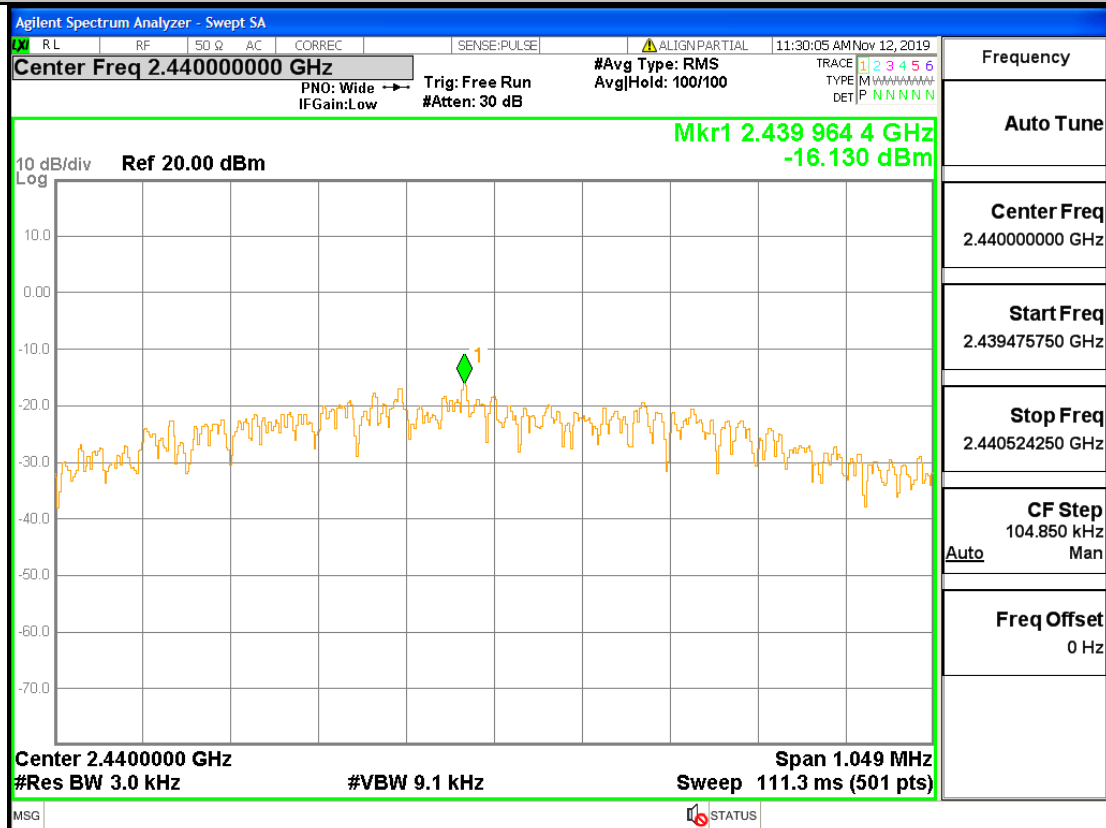
A.4. Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-16.621	8.00	PASS
BLE	2440	Ant1	-16.130	8.00	PASS
BLE	2480	Ant1	-15.977	8.00	PASS

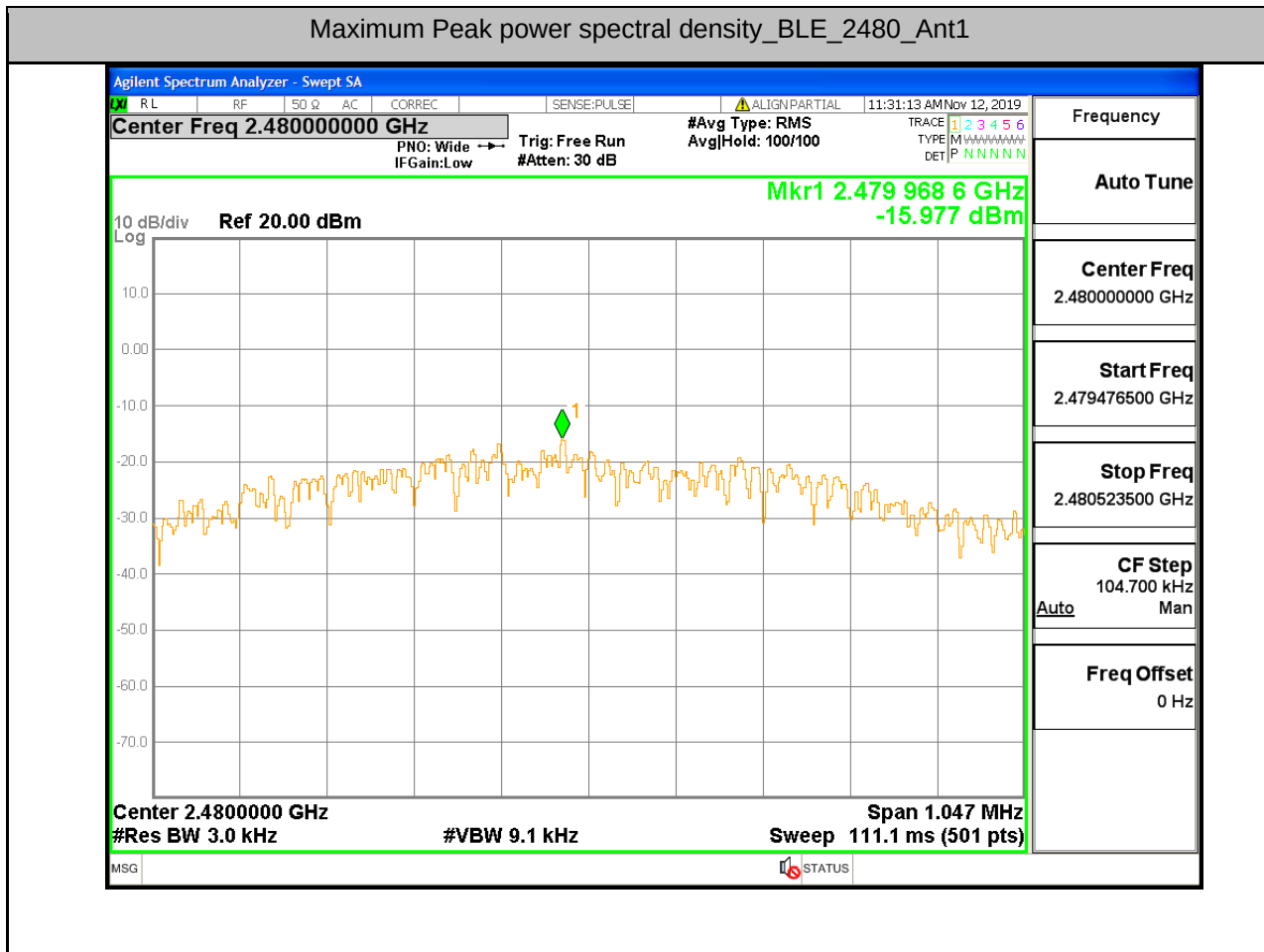
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



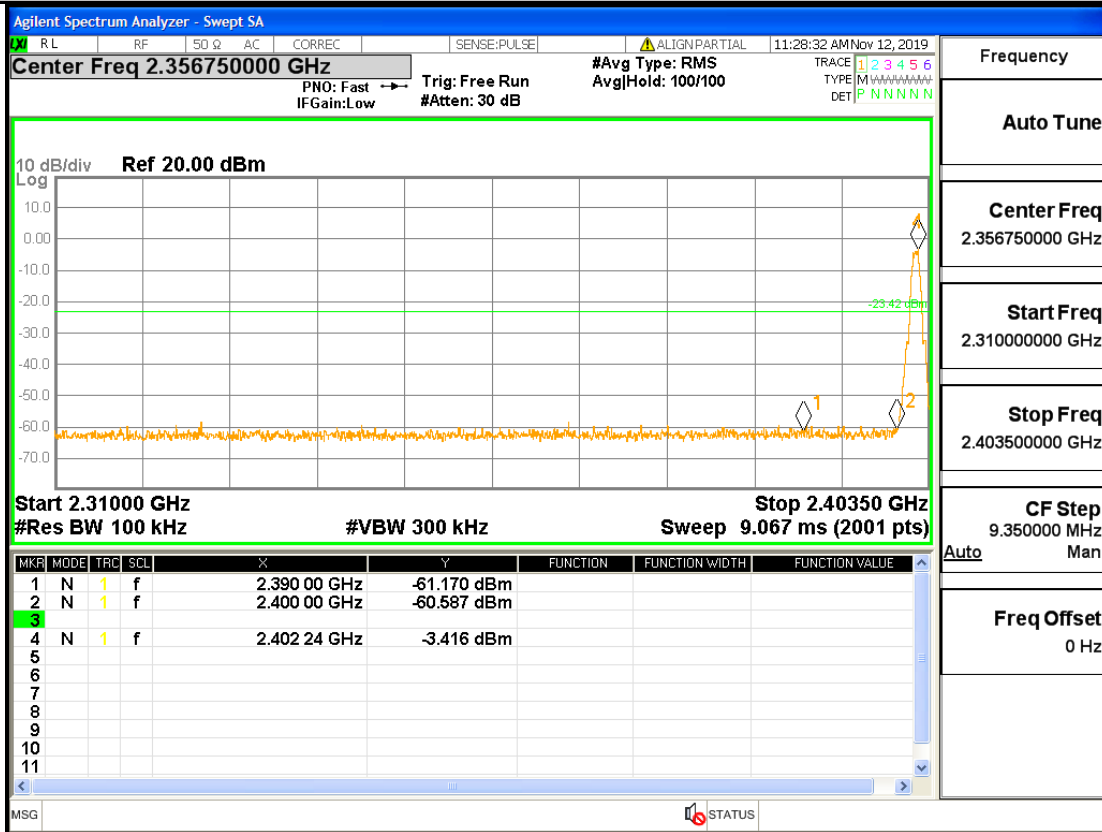
Maximum Peak power spectral density_BLE_2480_Ant1



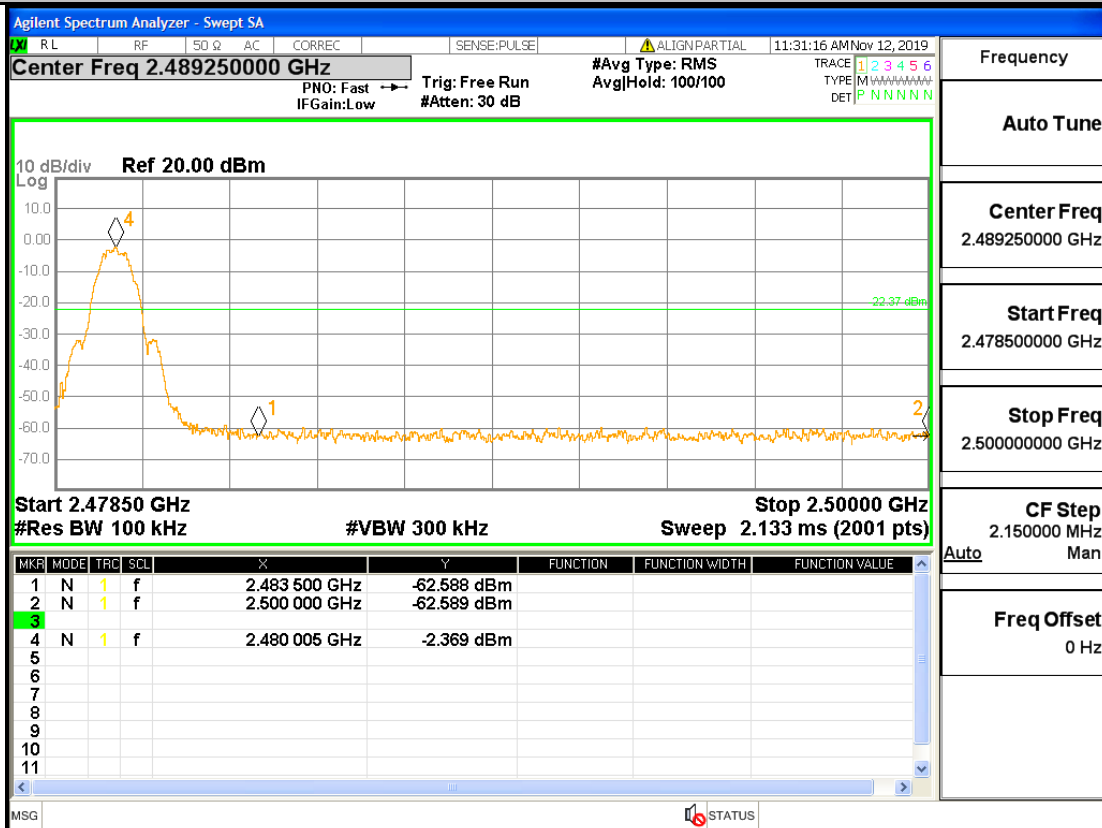
A.5. Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2400	-3.416	-60.59	-23.416	Pass
BLE	2480	2483.5	-2.369	-62.59	-22.369	Pass

Band-edge for RF Conducted Emissions_BLE_2402_Ant1

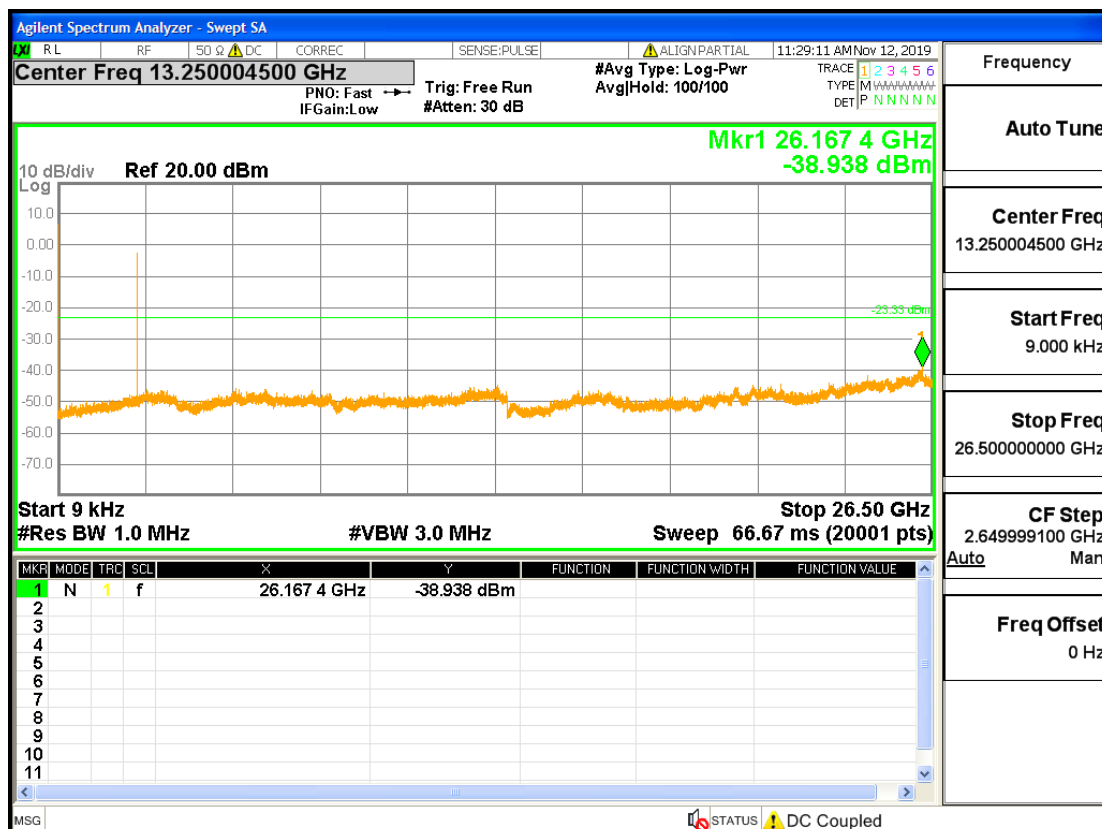
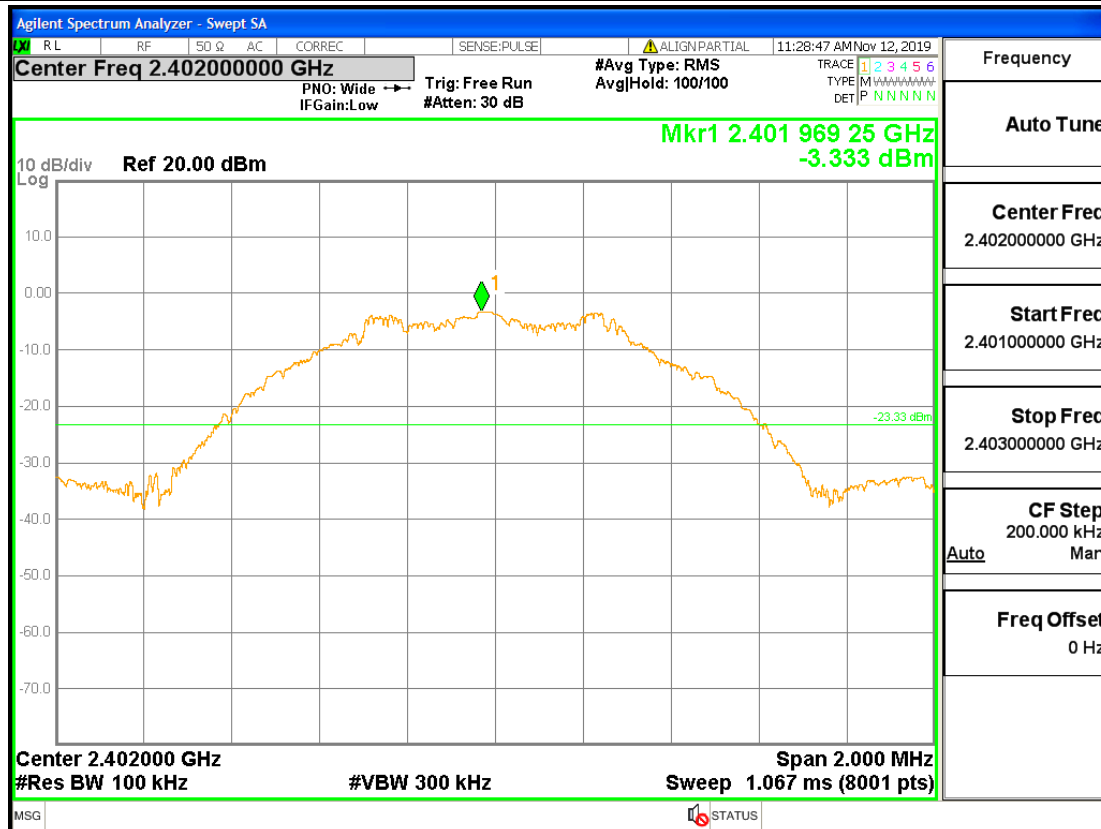


Band-edge for RF Conducted Emissions_BLE_2480_Ant1

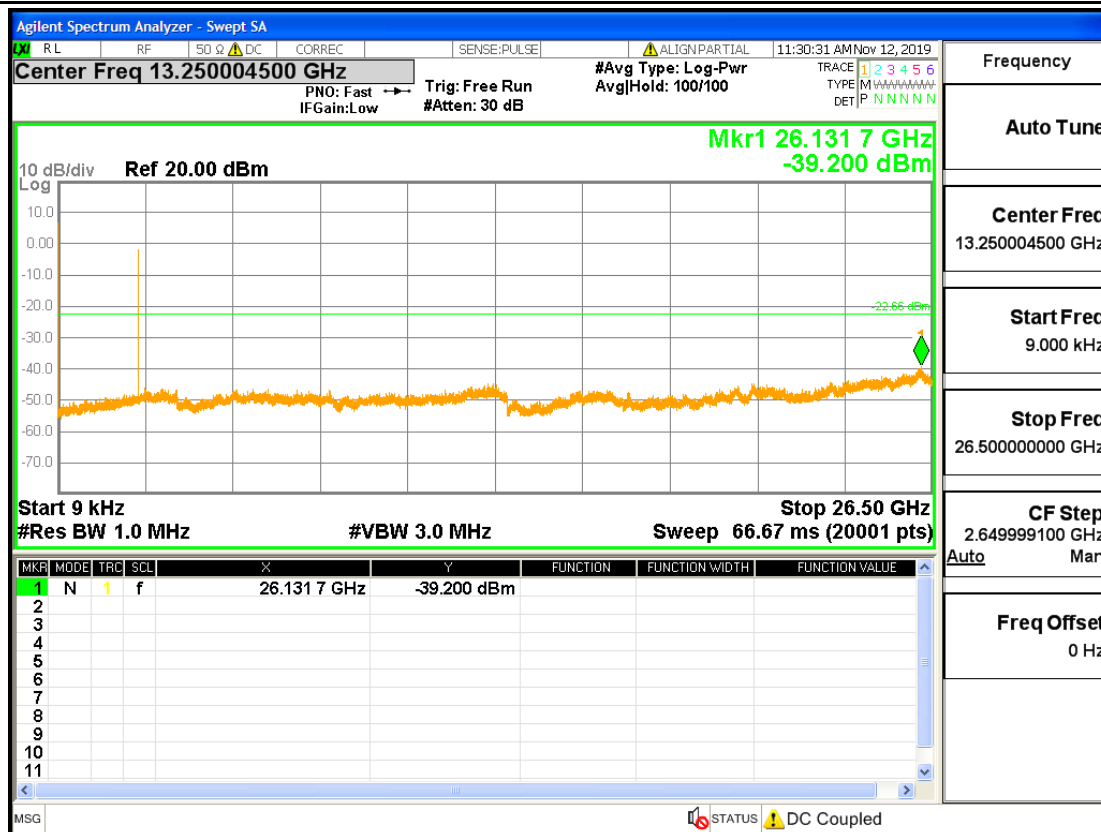
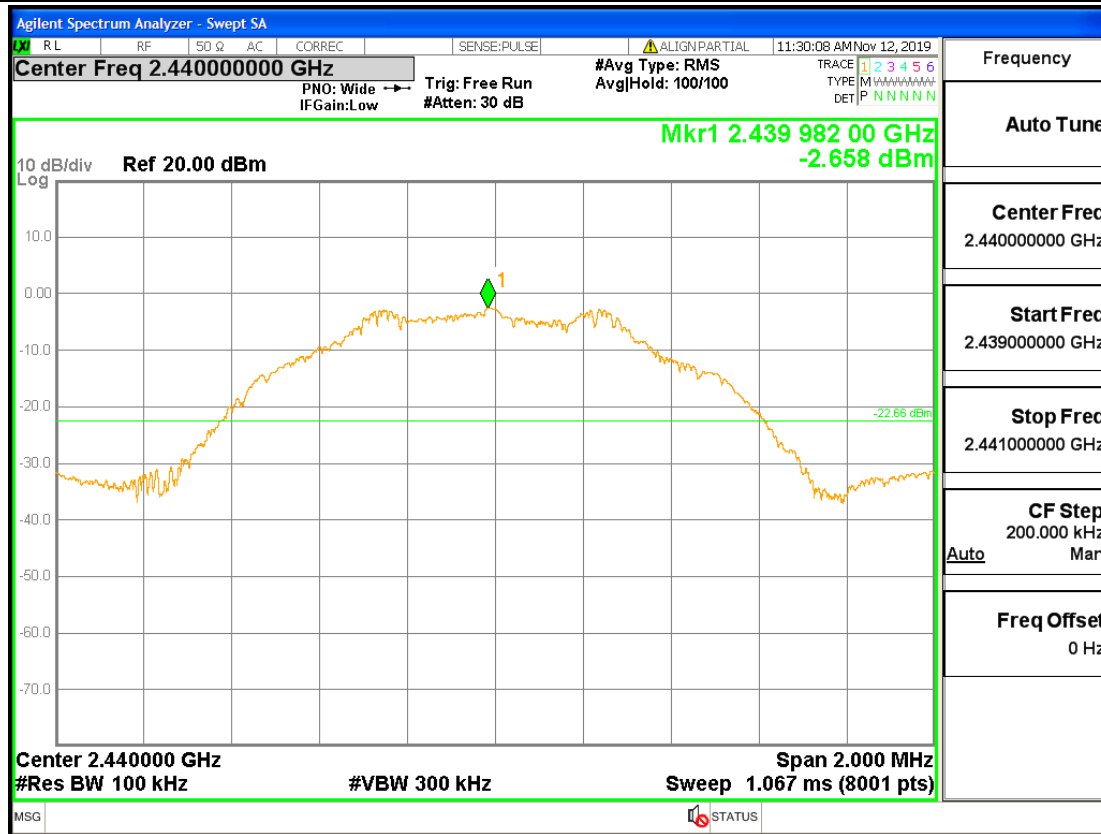


A.6.RF Conducted Spurious Emissions

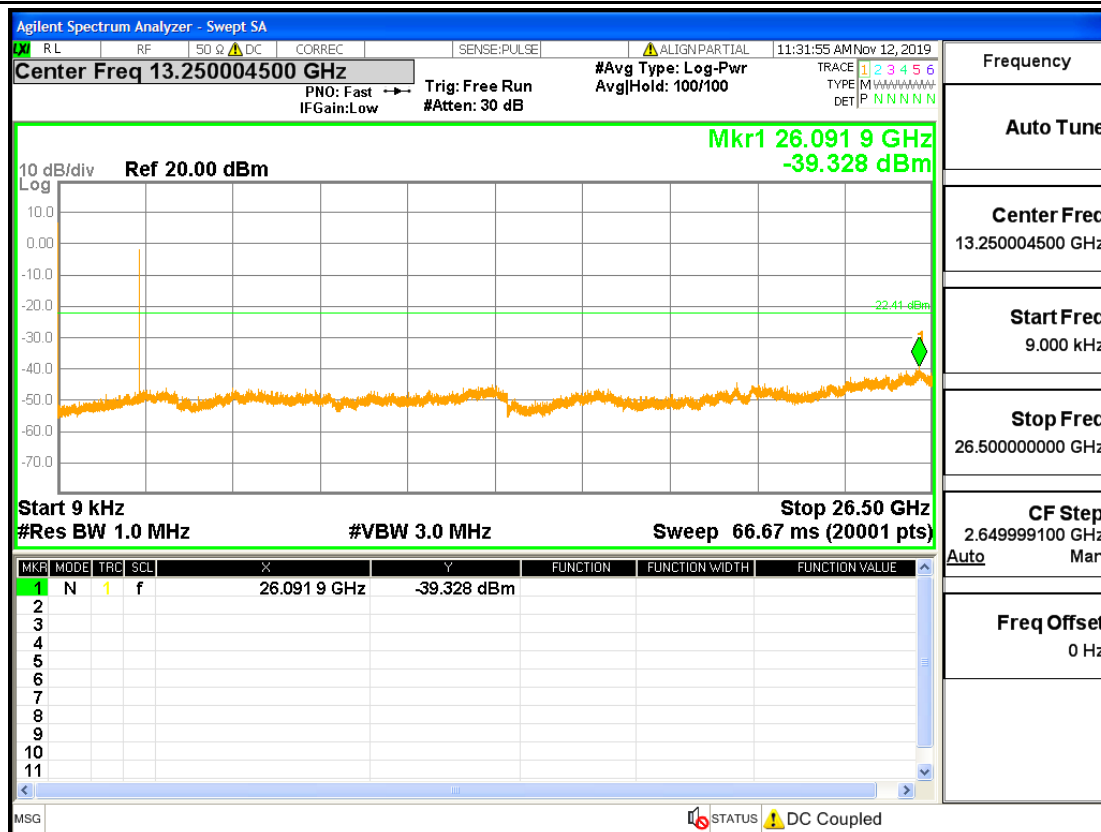
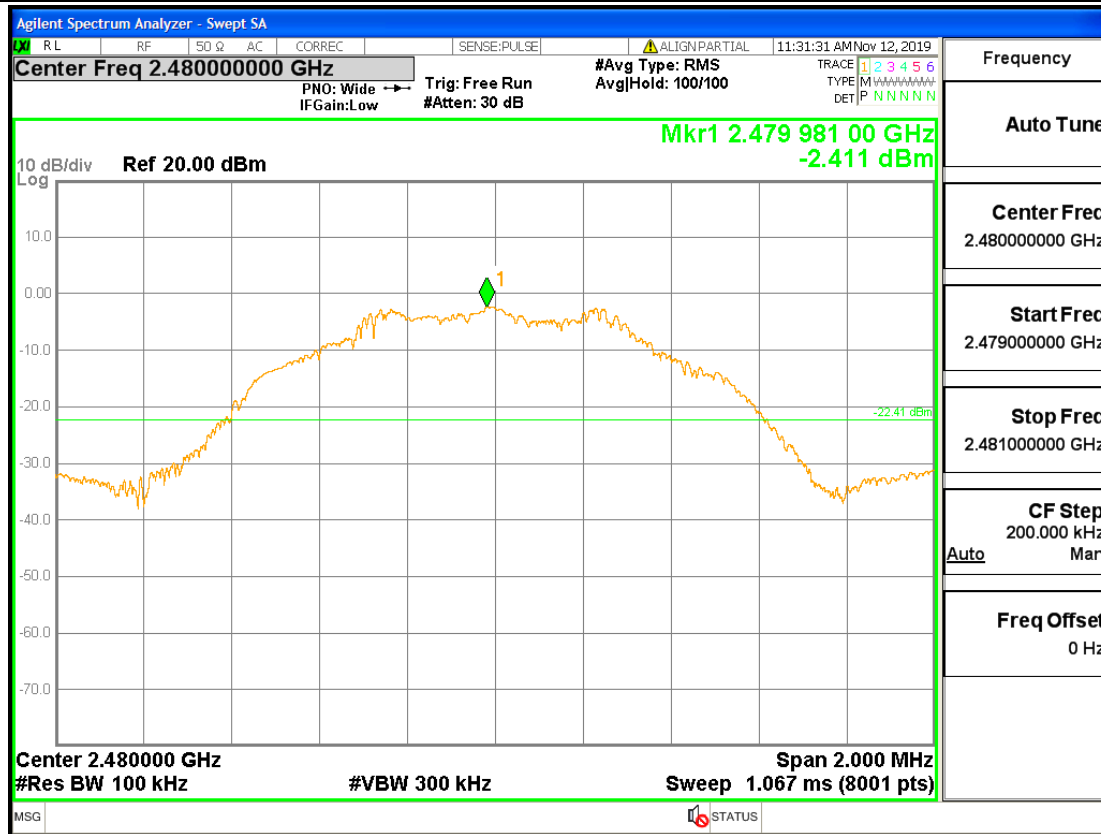
RF Conducted Spurious Emissions_BLE_2402_Ant1



RF Conducted Spurious Emissions_BLE_2440_Ant1



RF Conducted Spurious Emissions_BLE_2480_Ant1

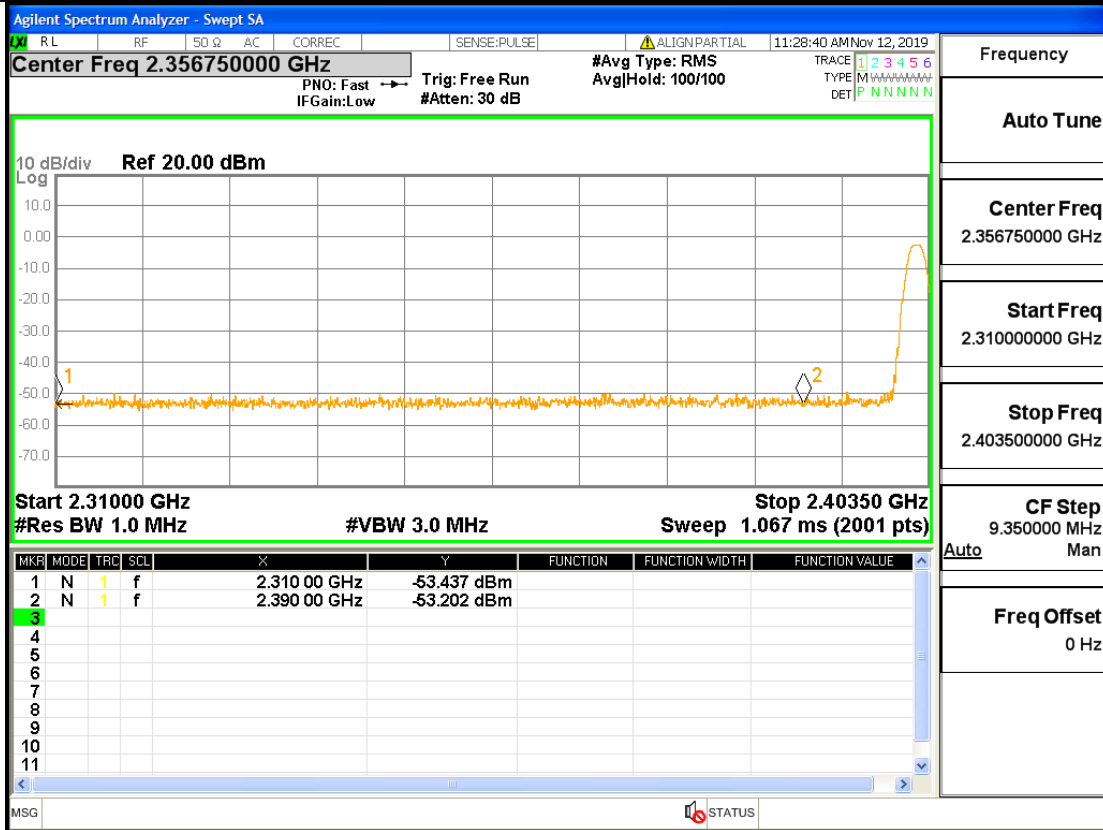


A.7. Restrict-band band-edge measurements

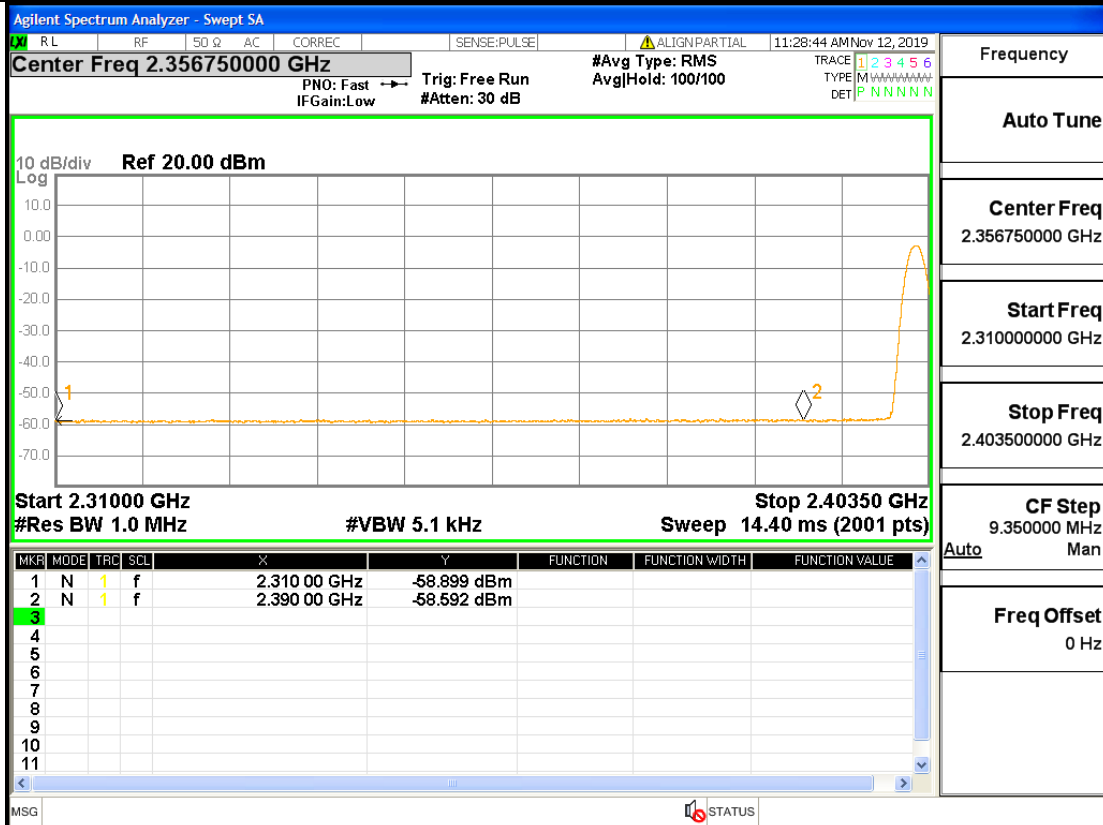
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.0	0.0	-53.2	44	74	Pass
BLE	2480	2483.5	2.0	0.0	-50.2	47	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.0	0.0	-58.59	38.61	54	Pass
BLE	2480	2483.5	2.0	0.0	-56.33	40.87	54	Pass

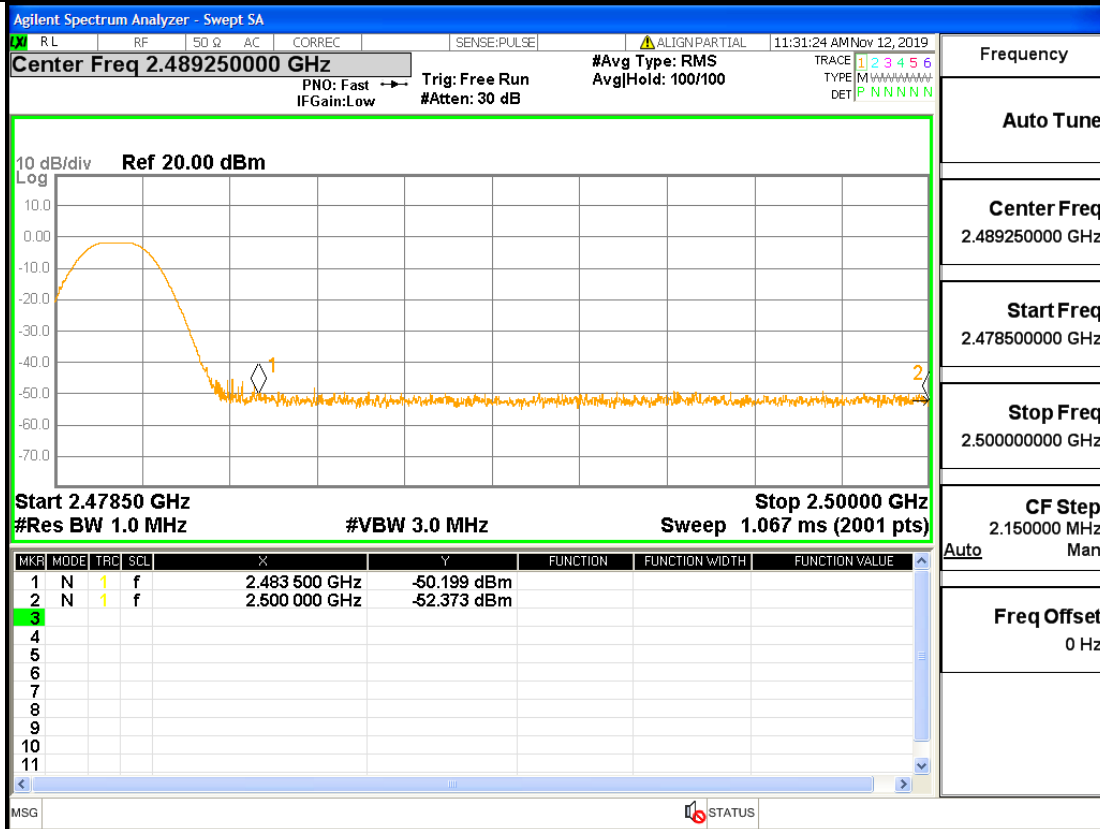
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



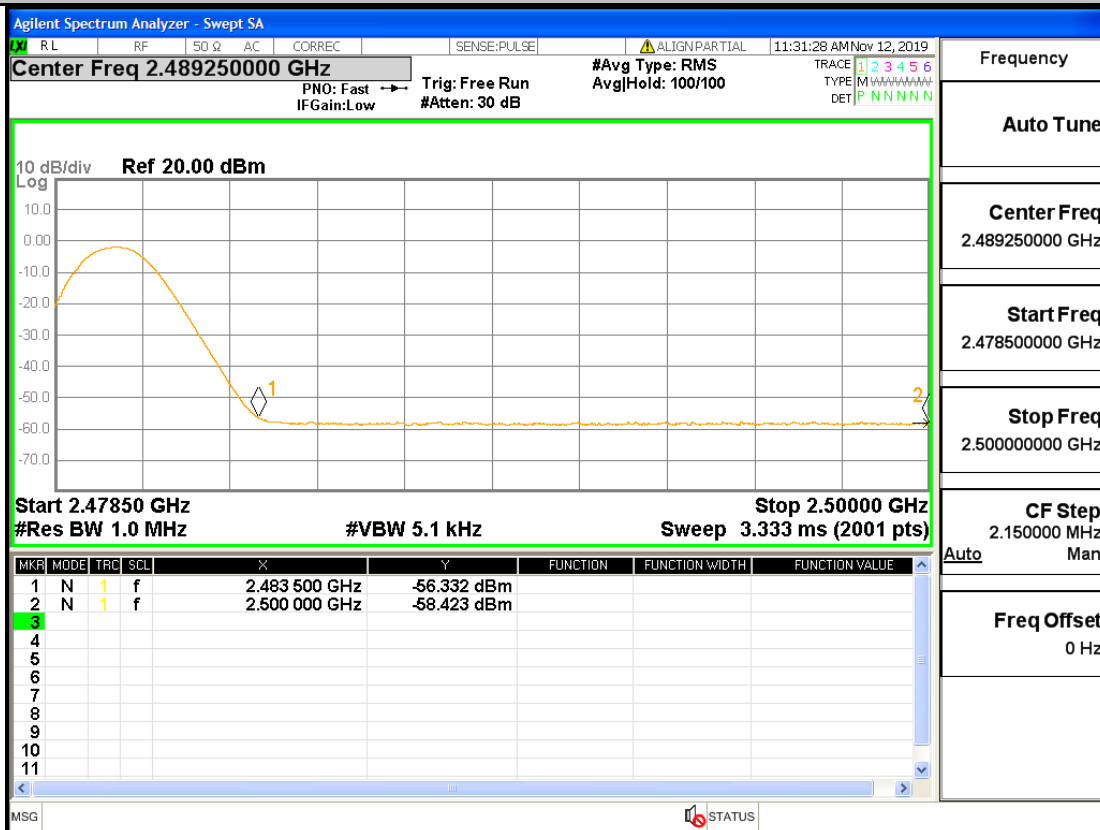
Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV



A.8. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	64.28	PASS

