

## Appendix A

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

**Product Name: 4G Mobile phone**

**Trade Mark: NYX Mobile**

**Test Model: Nickel**

**FCC ID: YPVITALCOMNICKEL**

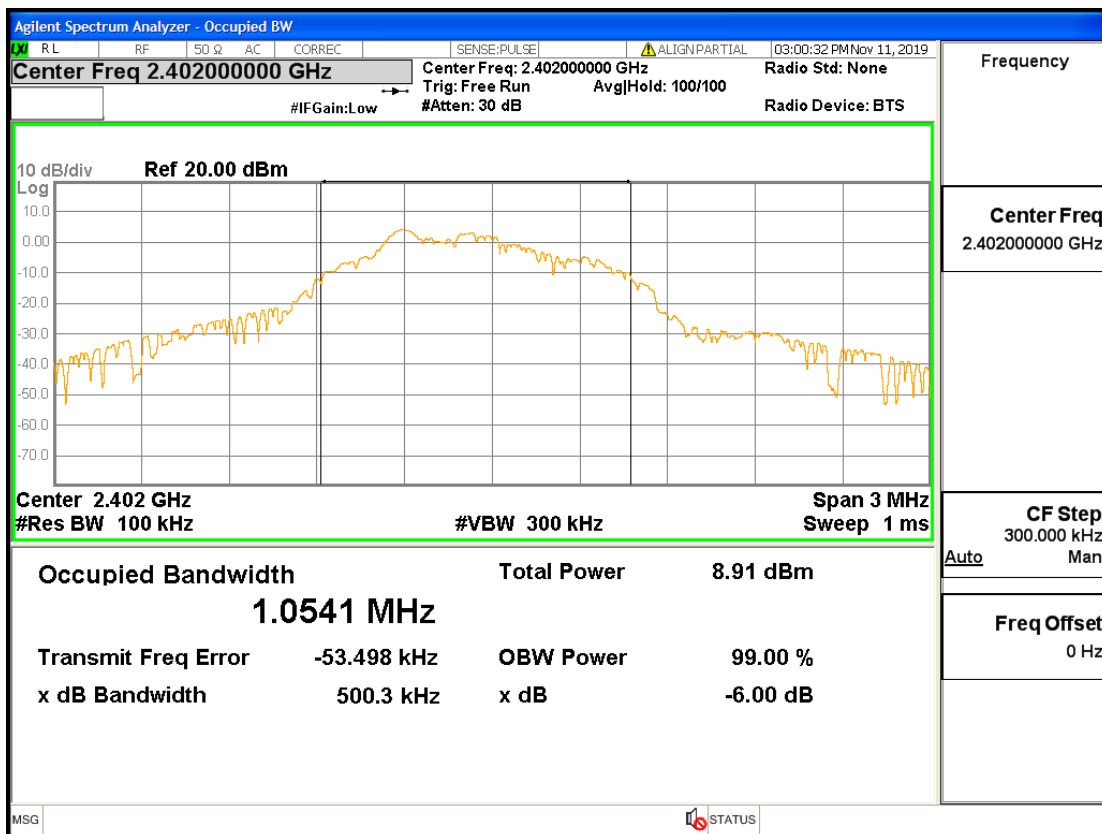
### Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

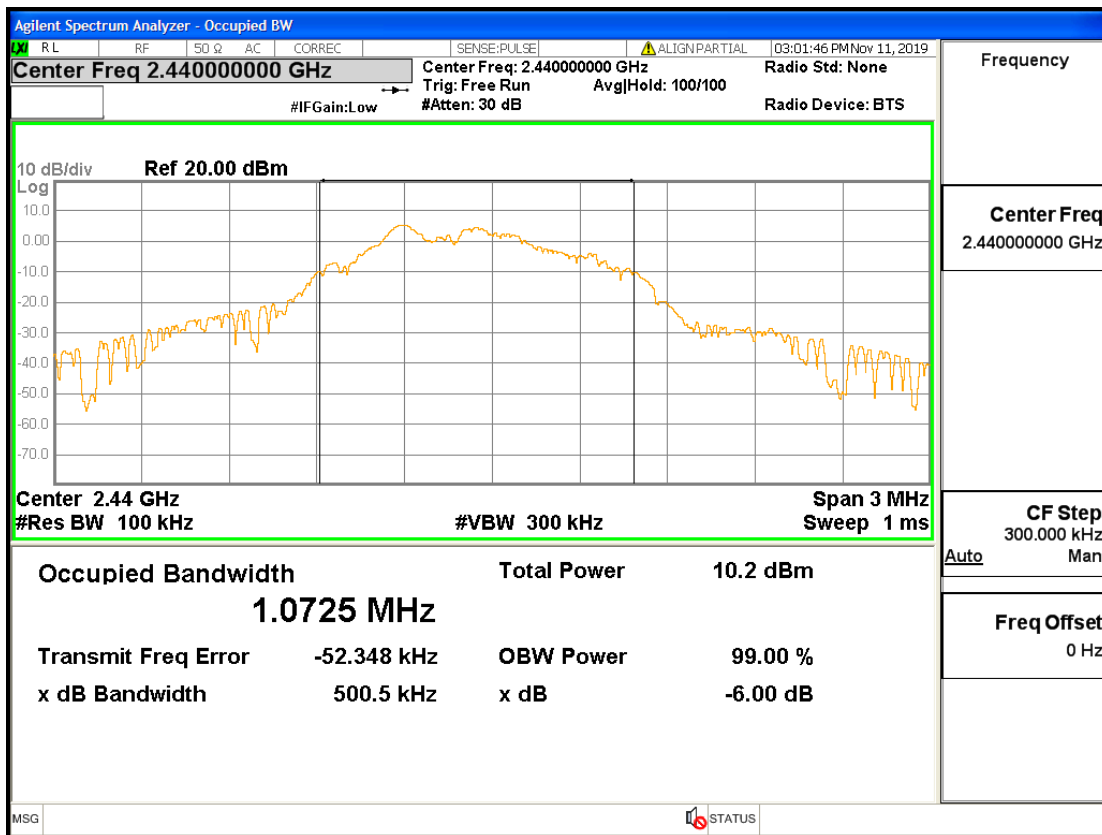
#### A.1. 6dB Bandwidth

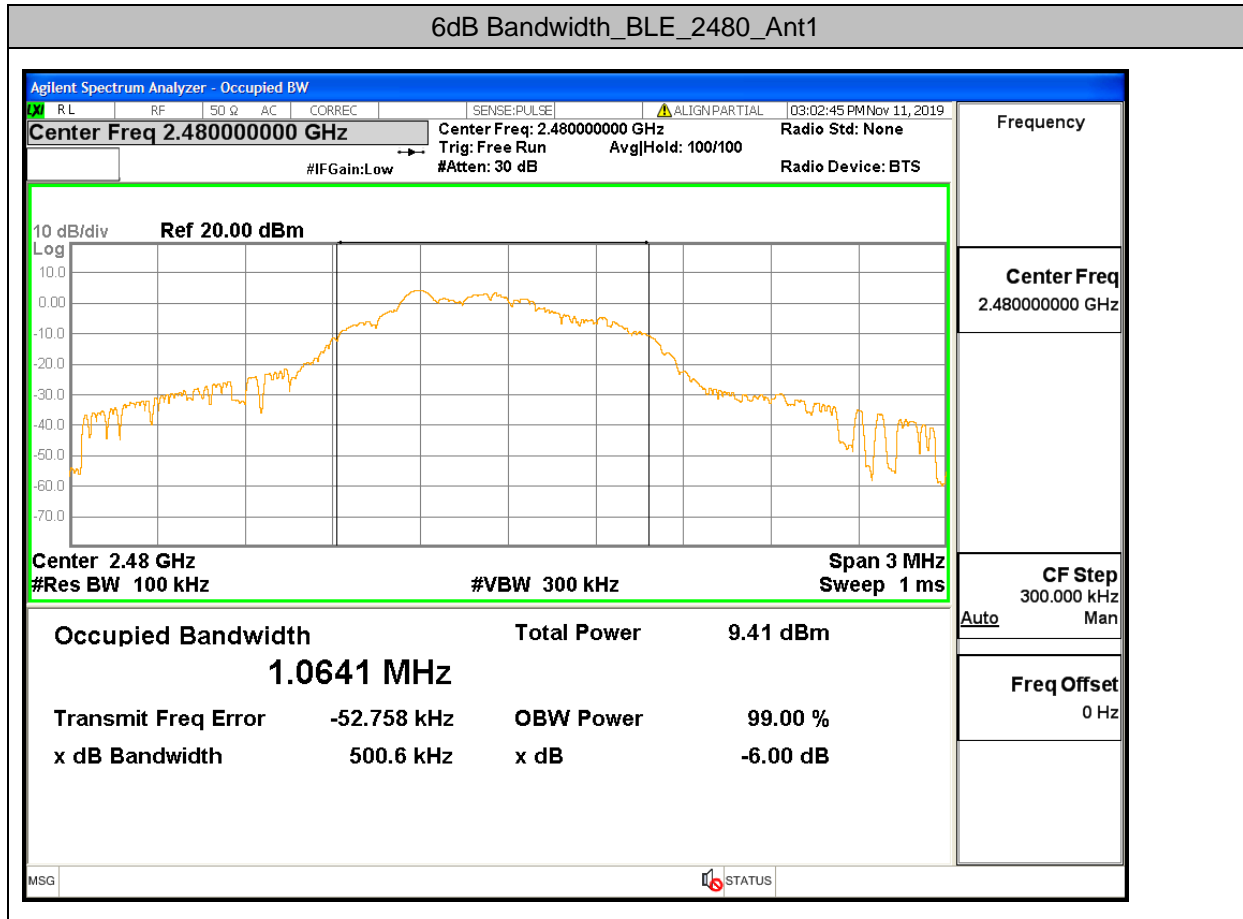
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.500	0.5	PASS
BLE	2440	Ant1	0.501	0.5	PASS
BLE	2480	Ant1	0.501	0.5	PASS

6dB Bandwidth\_BLE\_2402\_Ant1



6dB Bandwidth\_BLE\_2440\_Ant1



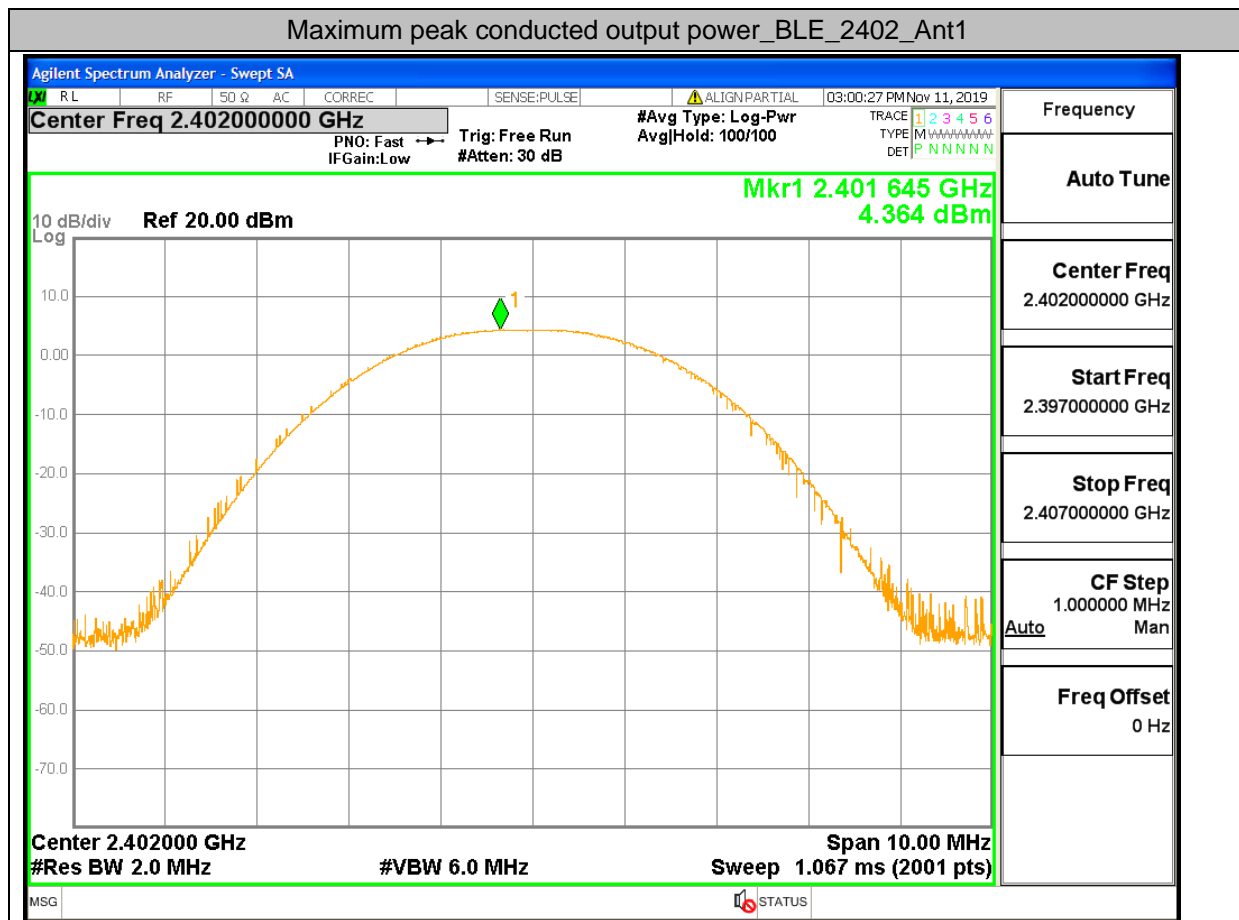


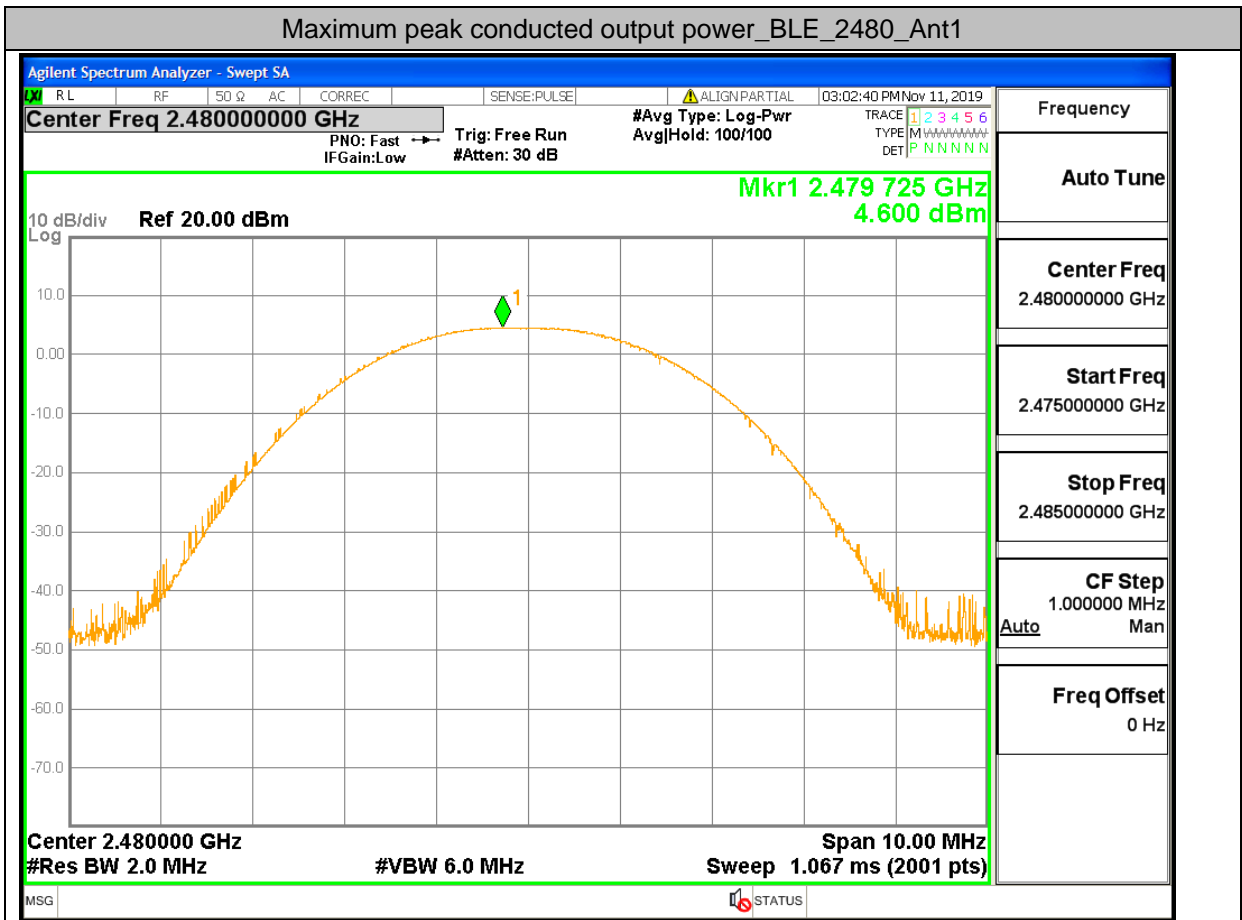
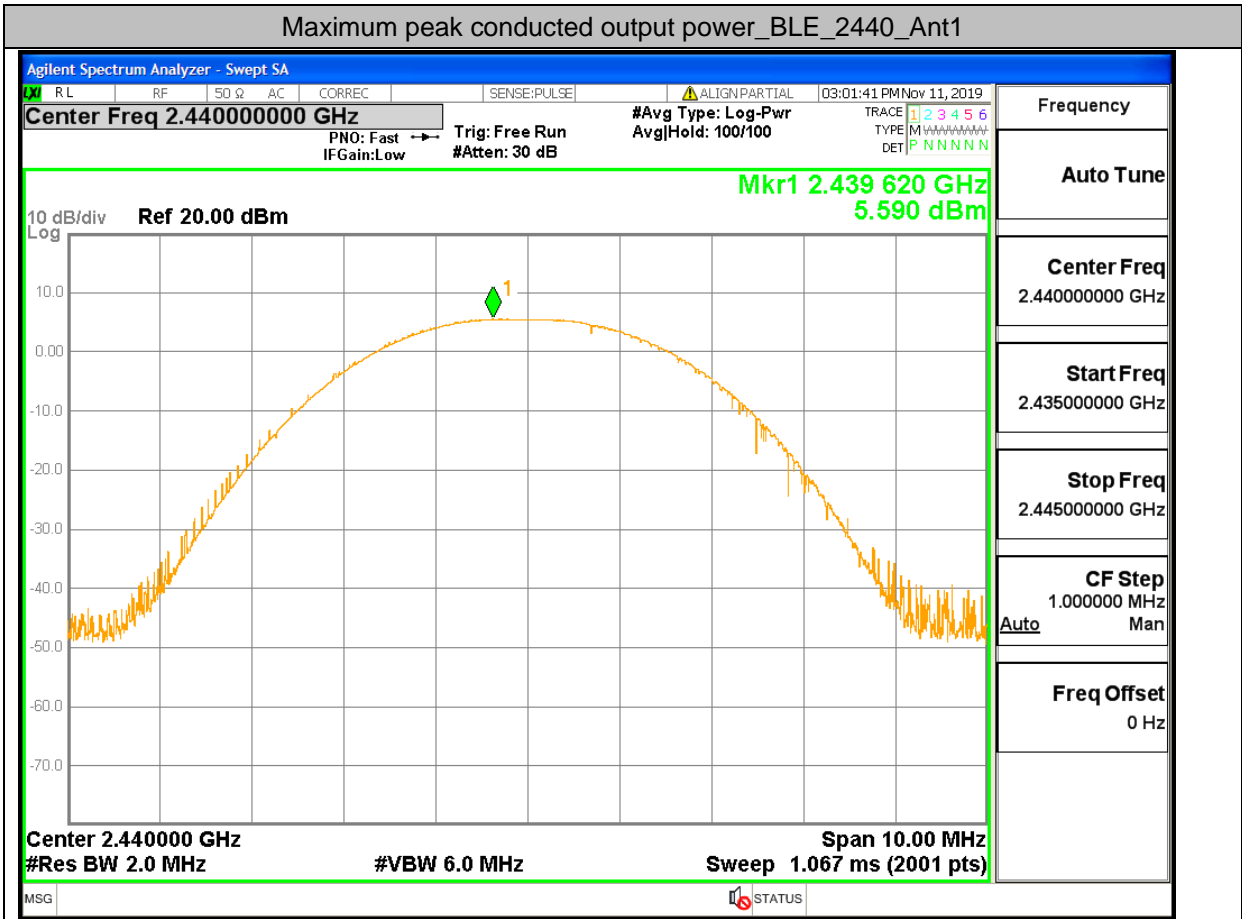
### A.2. Occupied Bandwidth

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

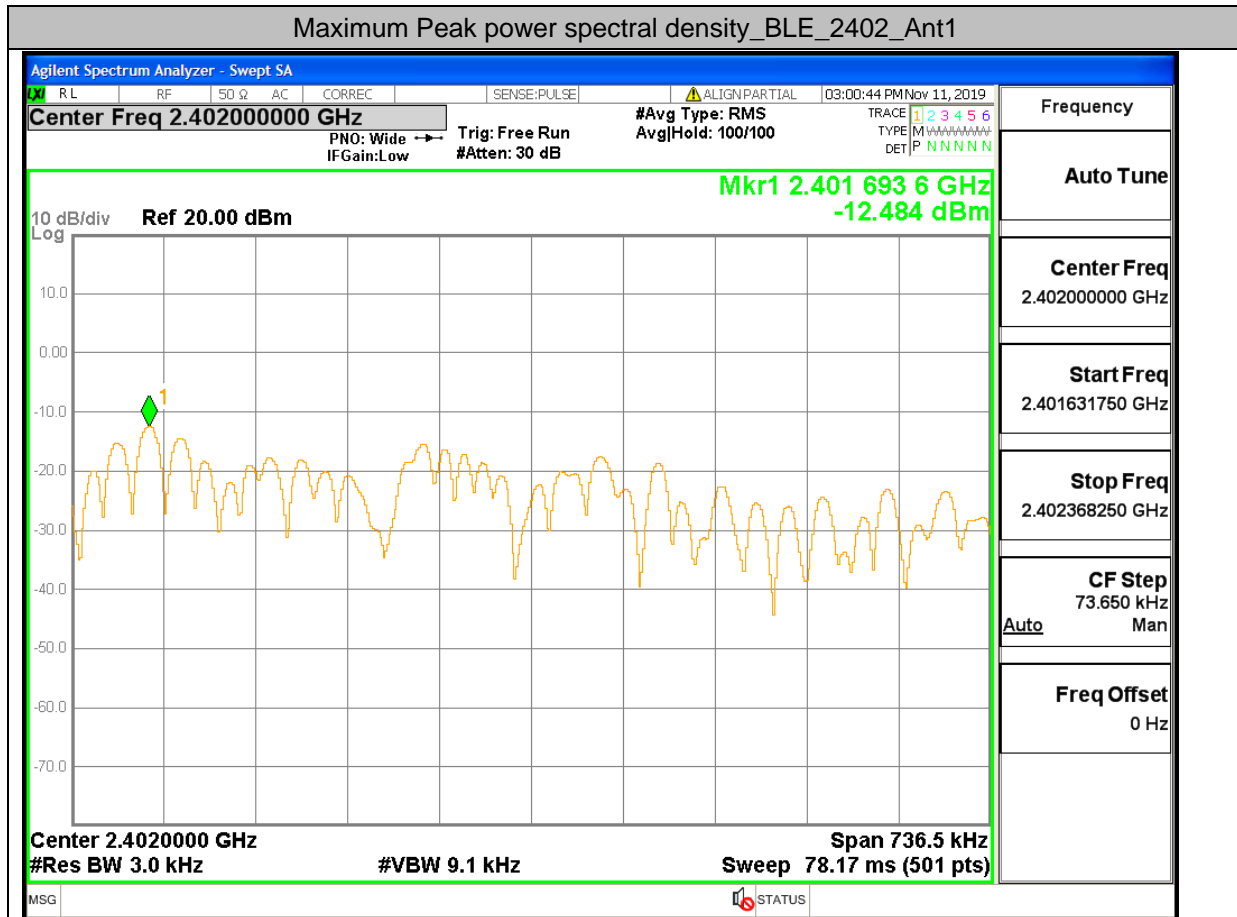
Test Mode	Test	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	4.364	30	PASS
BLE	2440	Ant1	5.590	30	PASS
BLE	2480	Ant1	4.600	30	PASS

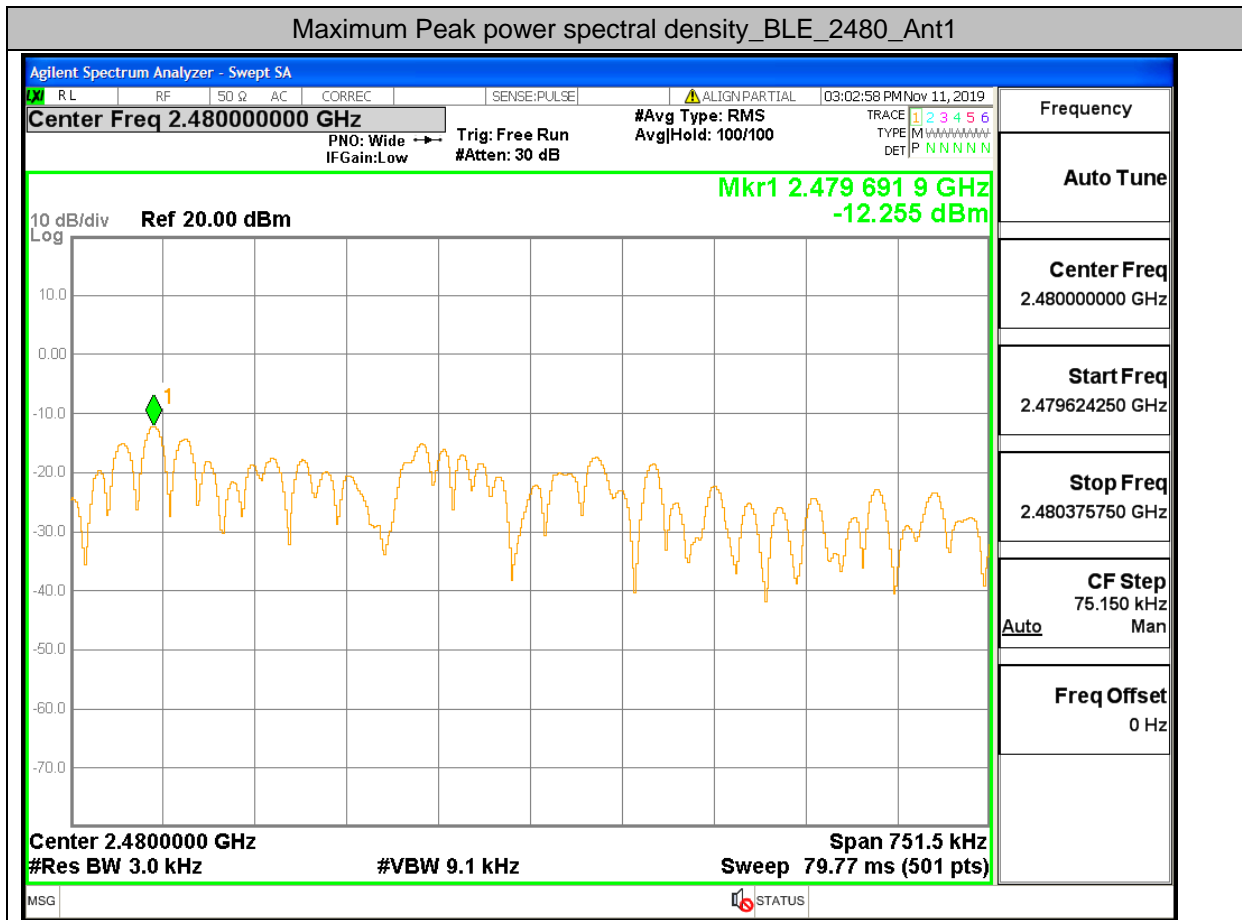
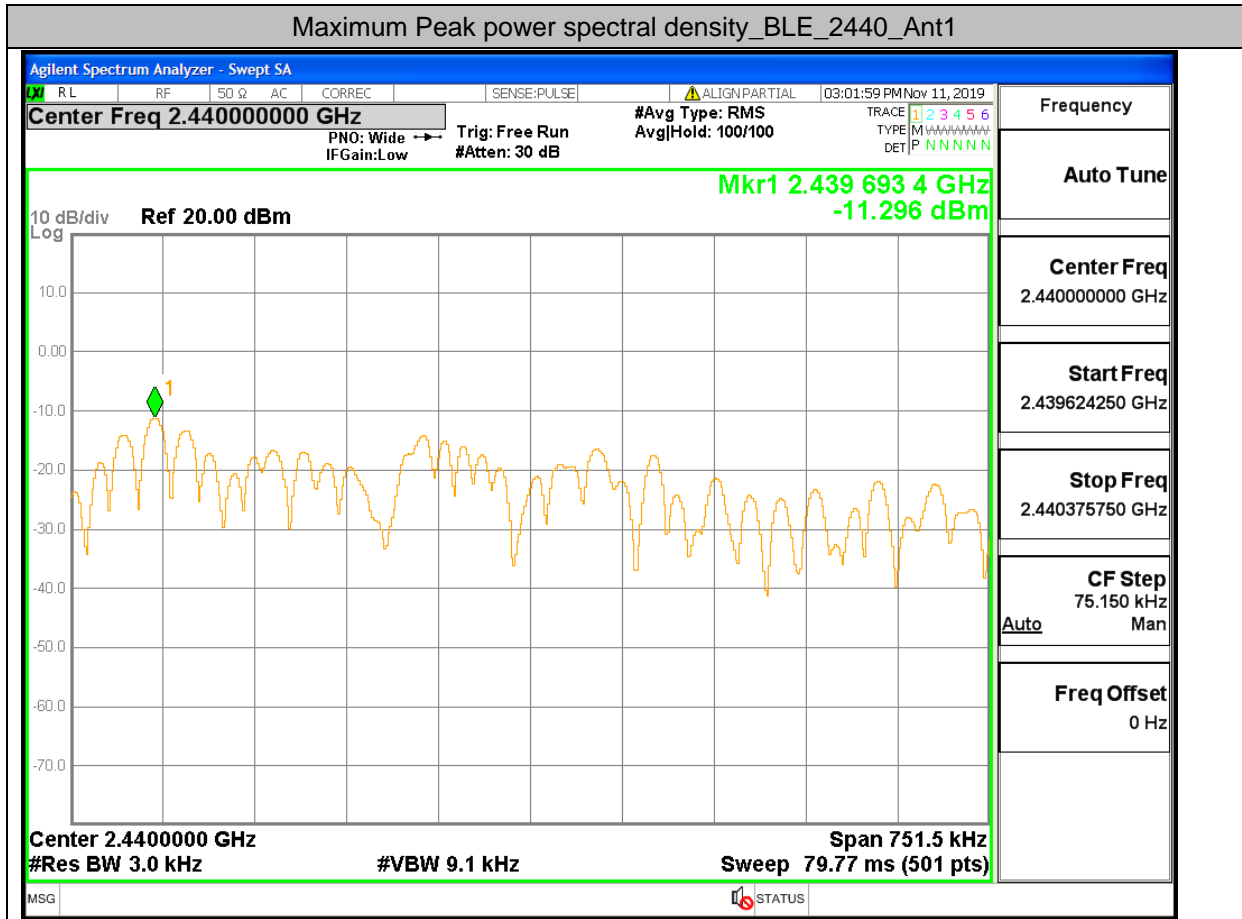




### A.4. Maximum Peak power spectral density

Test	Test	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-12.484	8.00	PASS
BLE	2440	Ant1	-11.296	8.00	PASS
BLE	2480	Ant1	-12.255	8.00	PASS



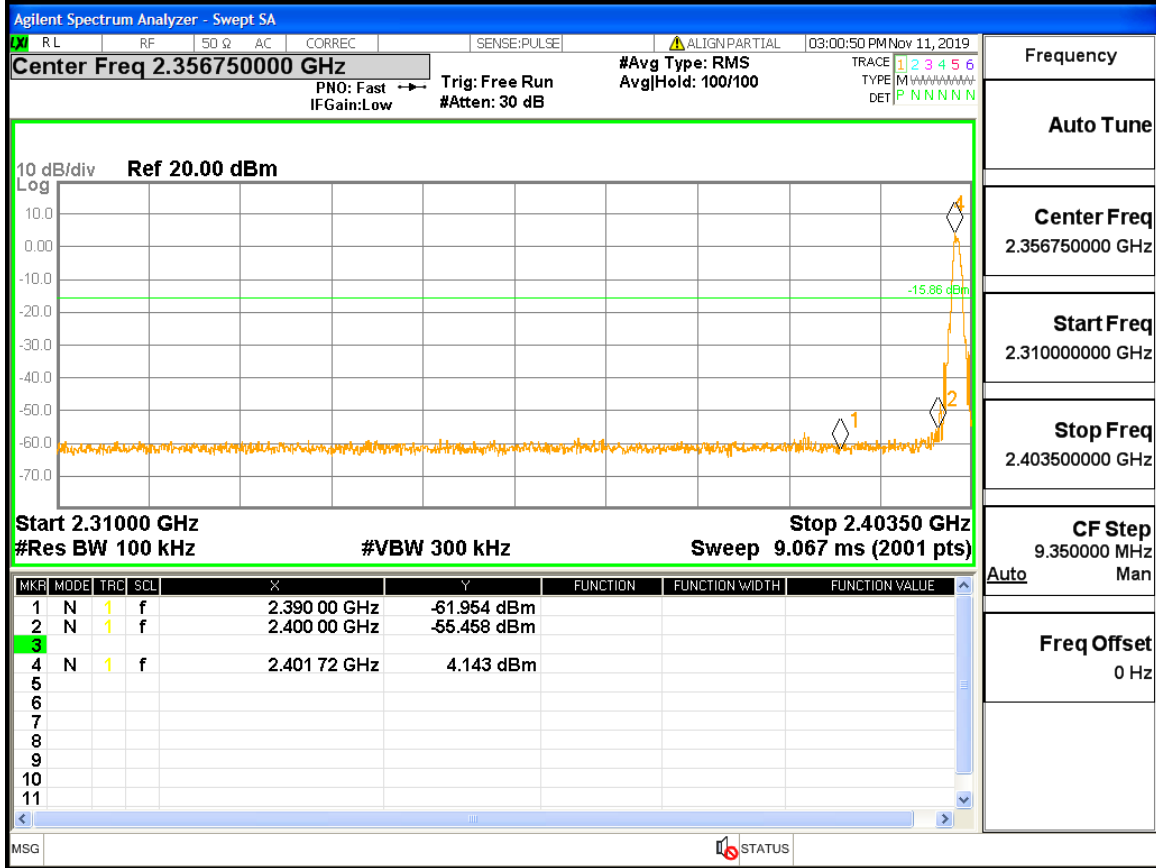


**A.5. Band-edge for RF Conducted Emissions**

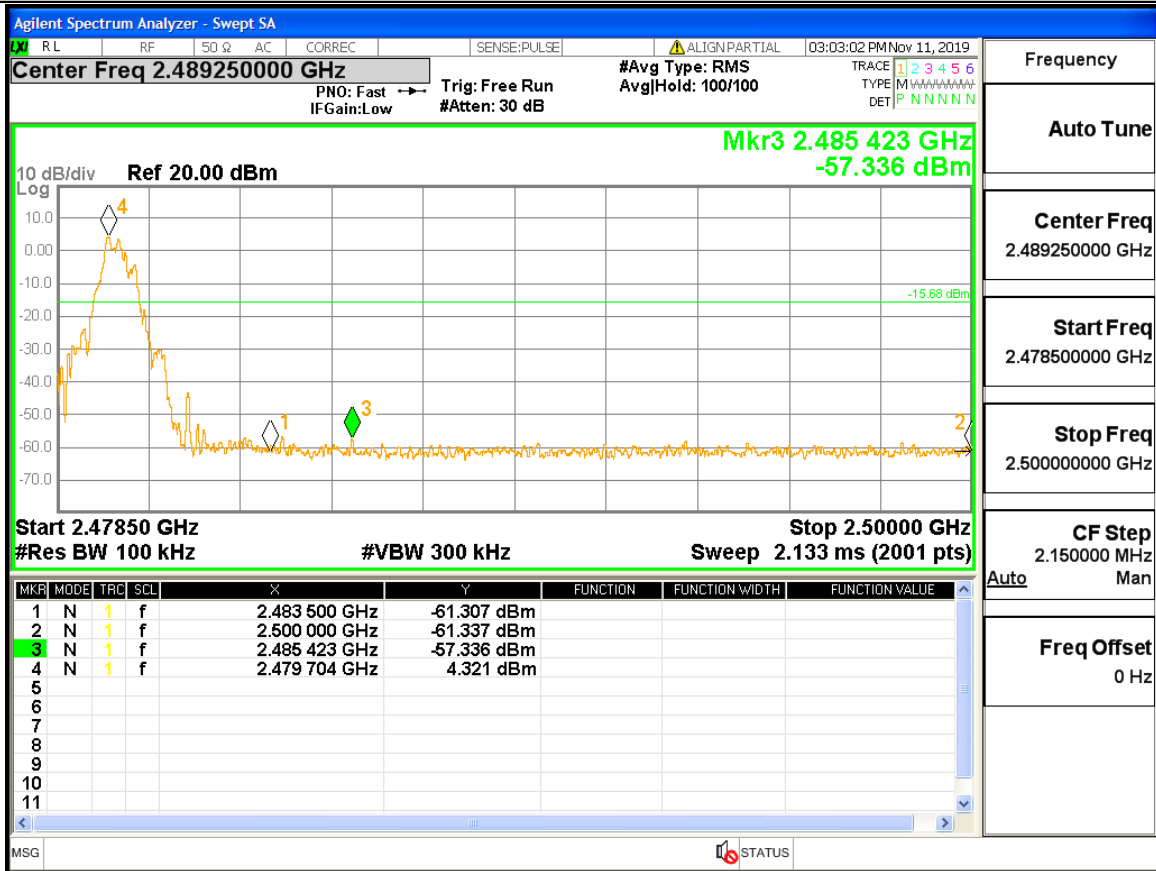
Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2400	4.143	-55.460	-15.857	Pass
BLE	2480	2485.423	4.321	-57.336	-15.679	Pass



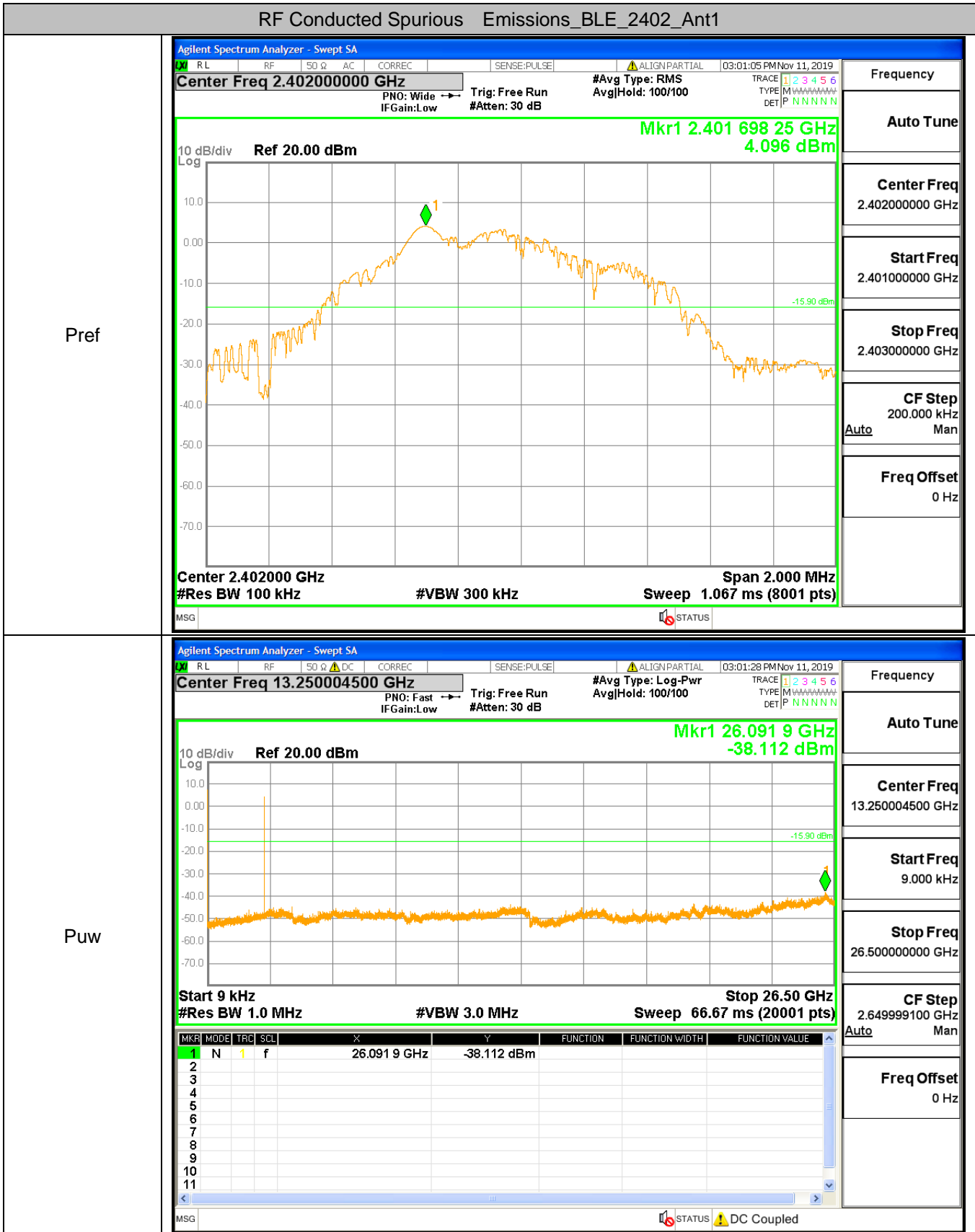
Band-edge for RF Conducted Emissions\_BLE\_2402\_Ant1



Band-edge for RF Conducted Emissions\_BLE\_2480\_Ant1

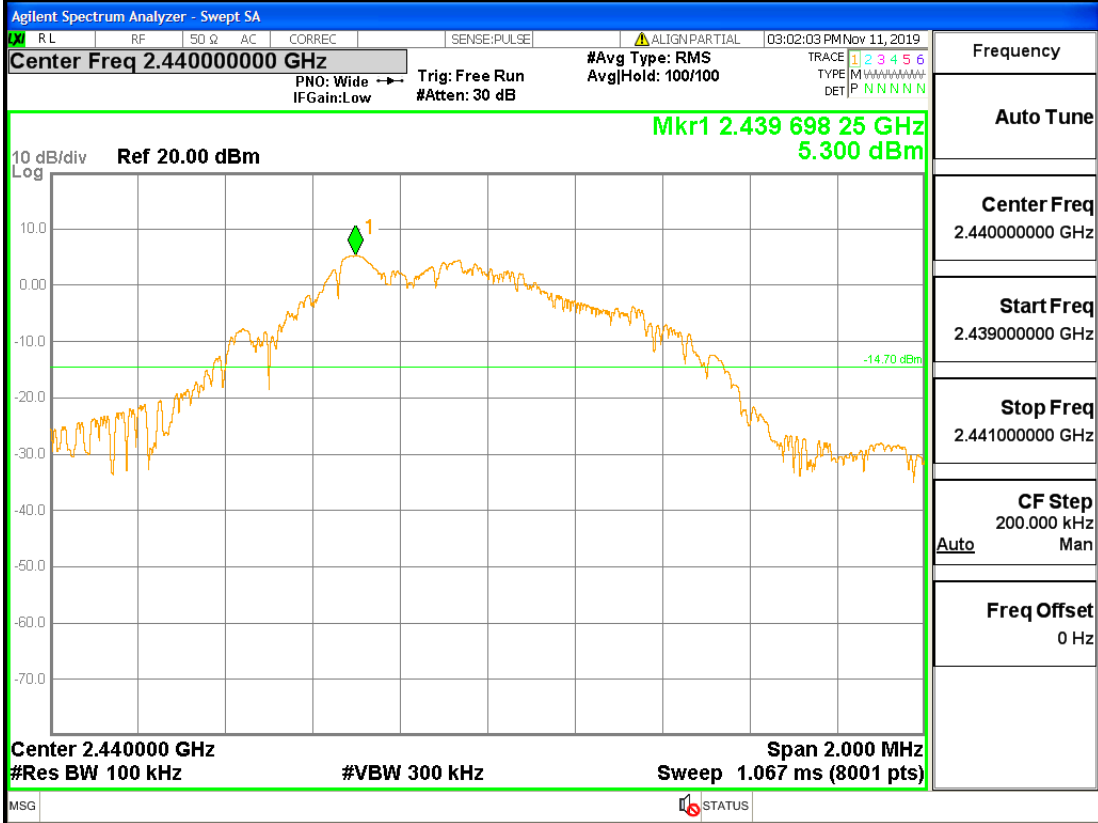


### A.6. RF Conducted Spurious Emissions

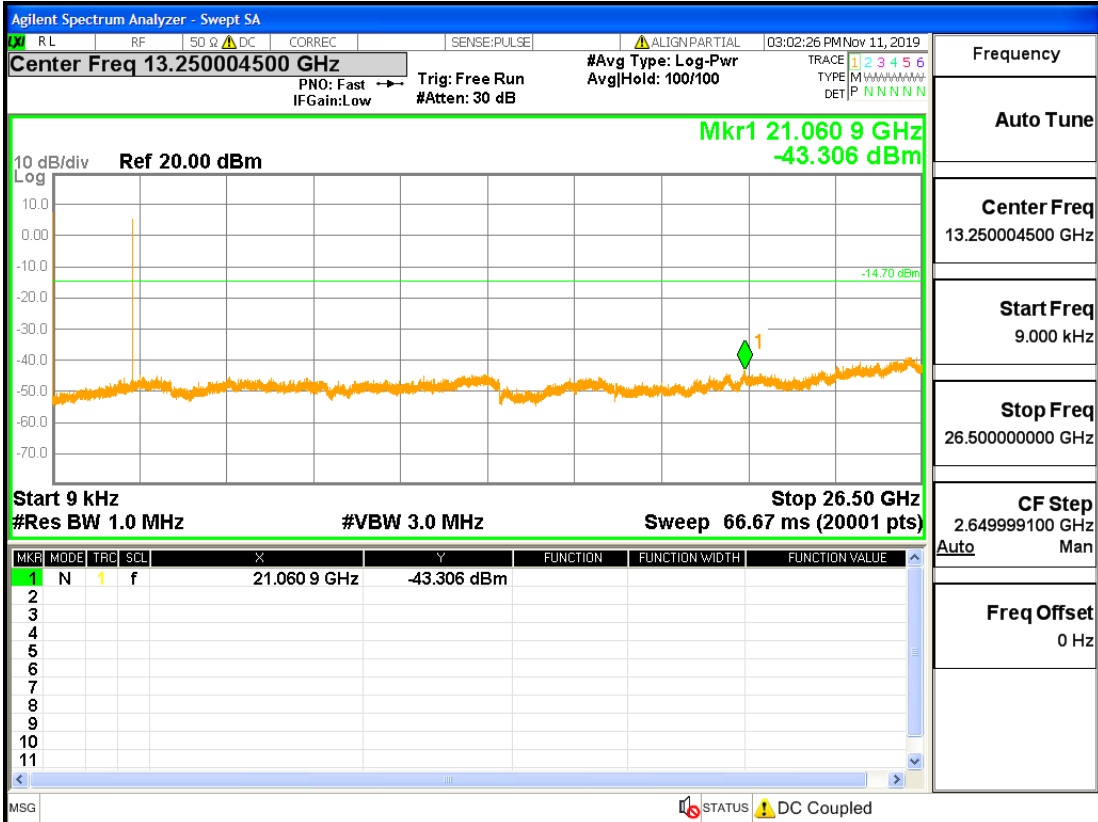


RF Conducted Spurious Emissions\_BLE\_2440\_Ant1

Pref

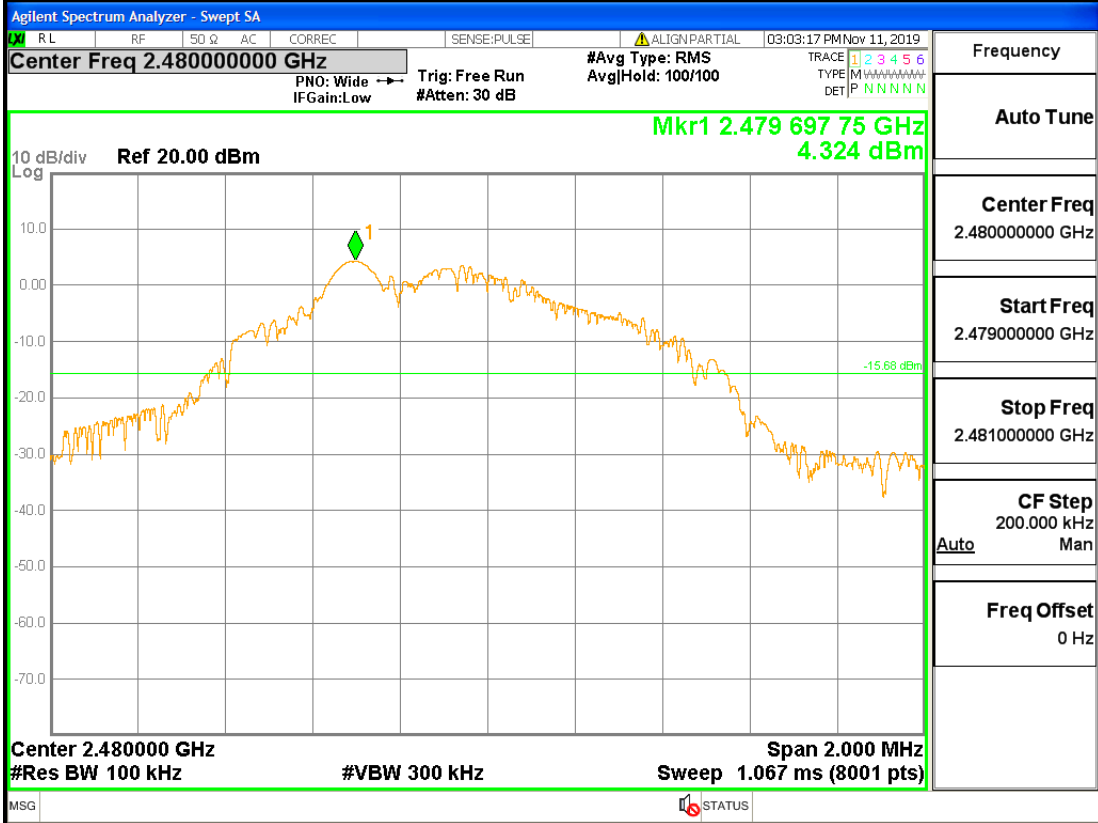


Puw

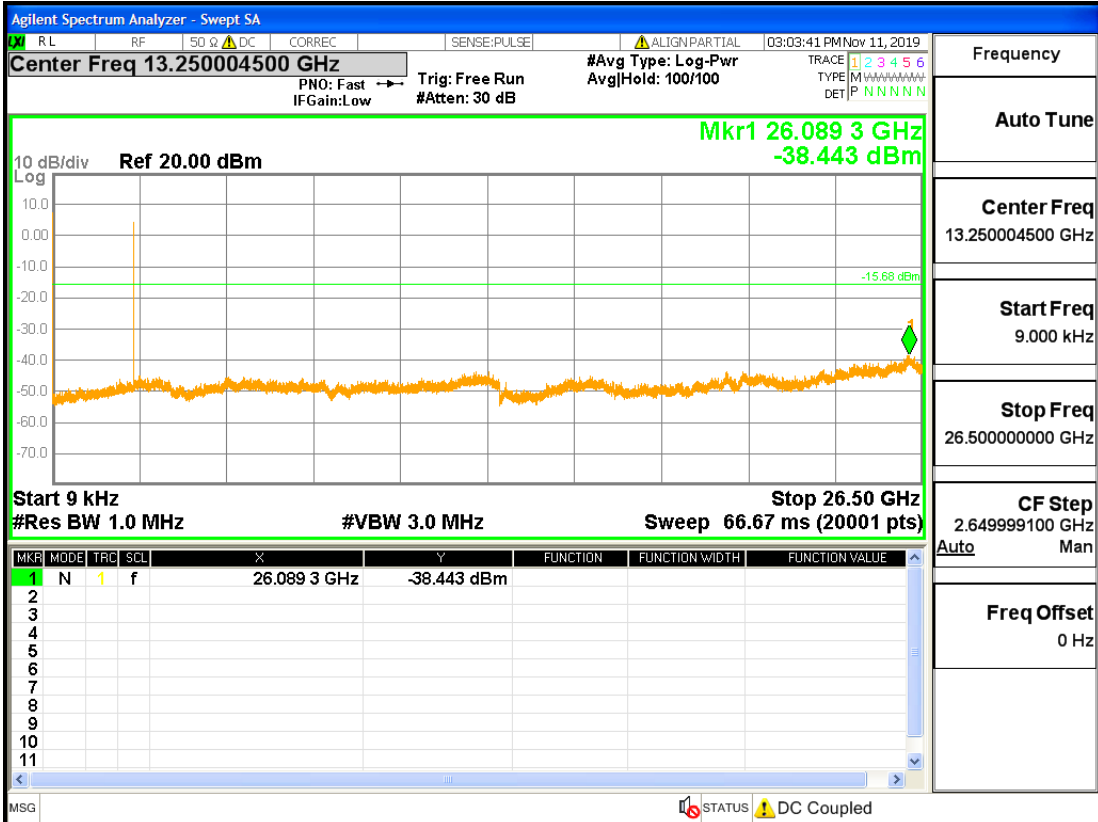


RF Conducted Spurious Emissions\_BLE\_2480\_Ant1

Pref



Puw

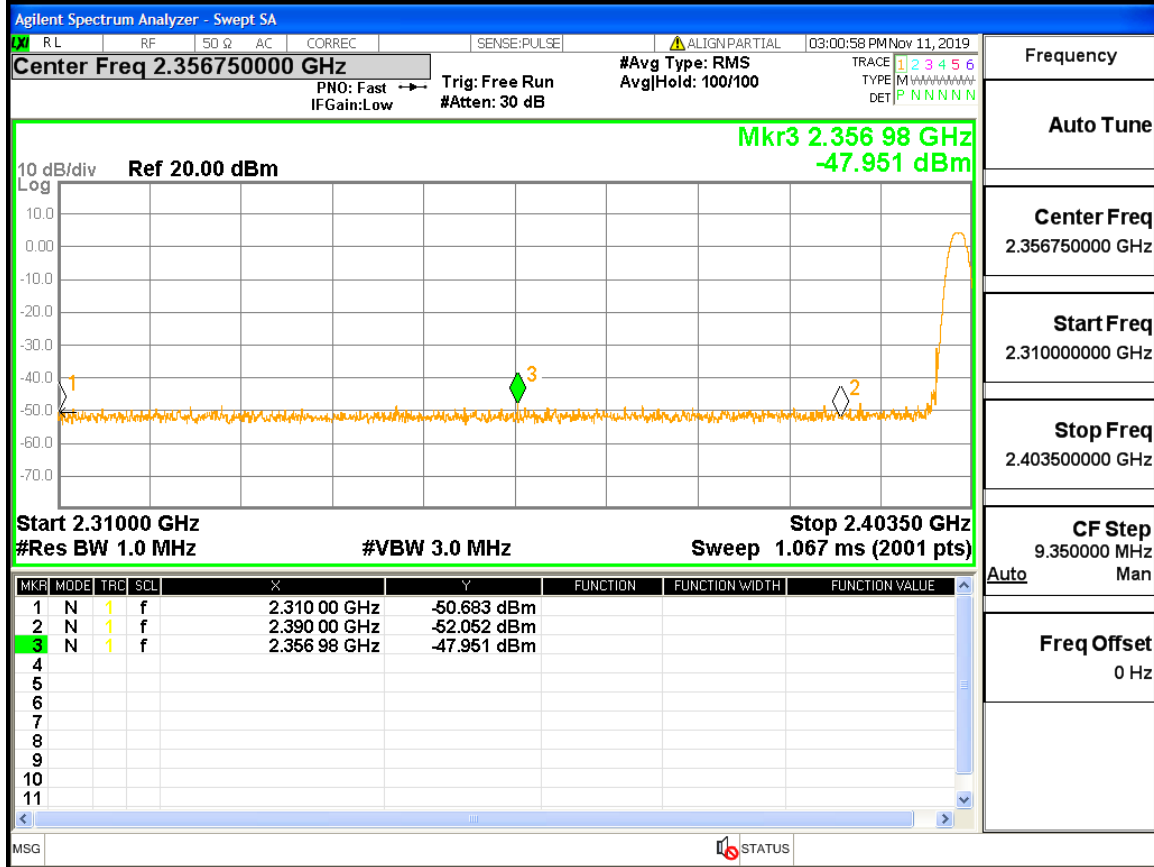


**A.7. Restrict-band band-edge measurements**

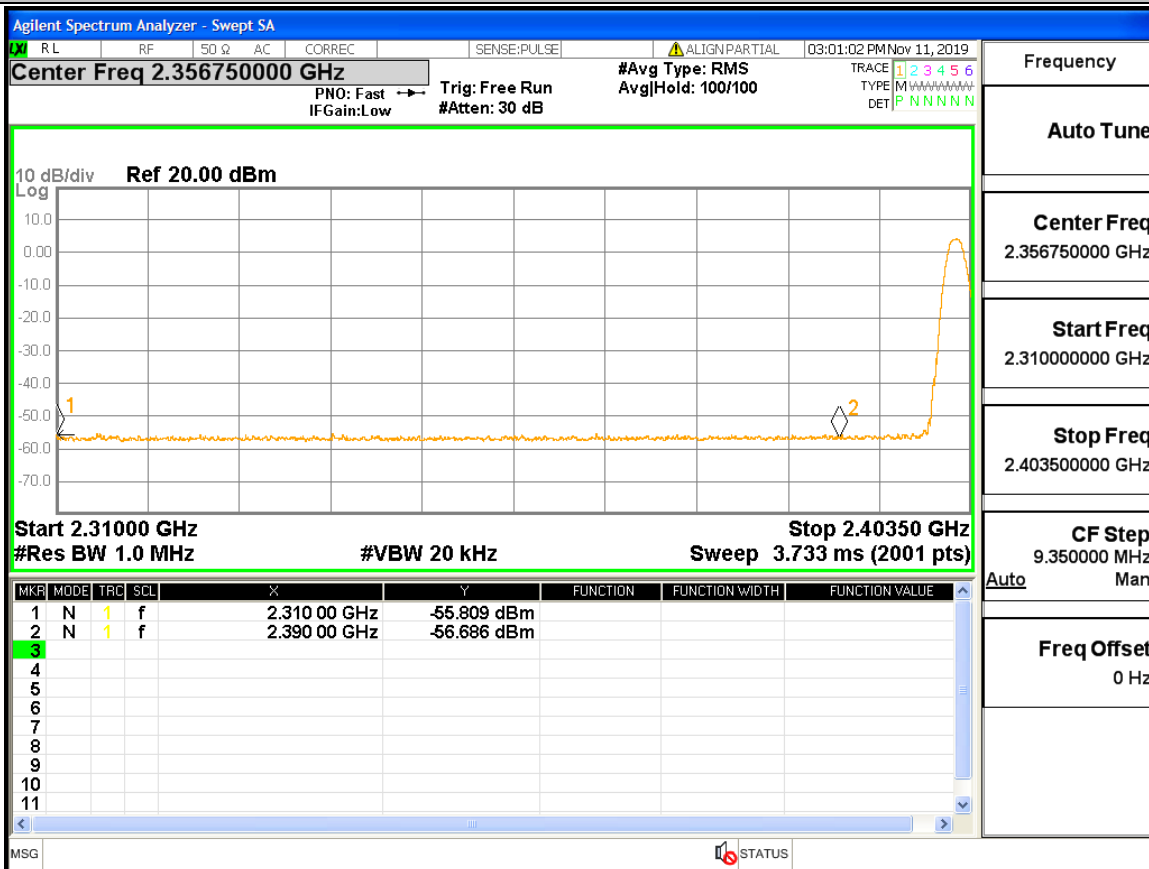
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain (dBi)	Ground Factor (dB)	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2356.984	2.10	0.00	-47.951	49.349	74	Pass
BLE	2480	2484.456	2.10	0.00	-45.609	51.691	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain (dBi)	Ground Factor (dB)	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2356.984	2.10	0.00	-55.81	41.49	54	Pass
BLE	2480	2484.456	2.10	0.00	-53.25	44.05	54	Pass

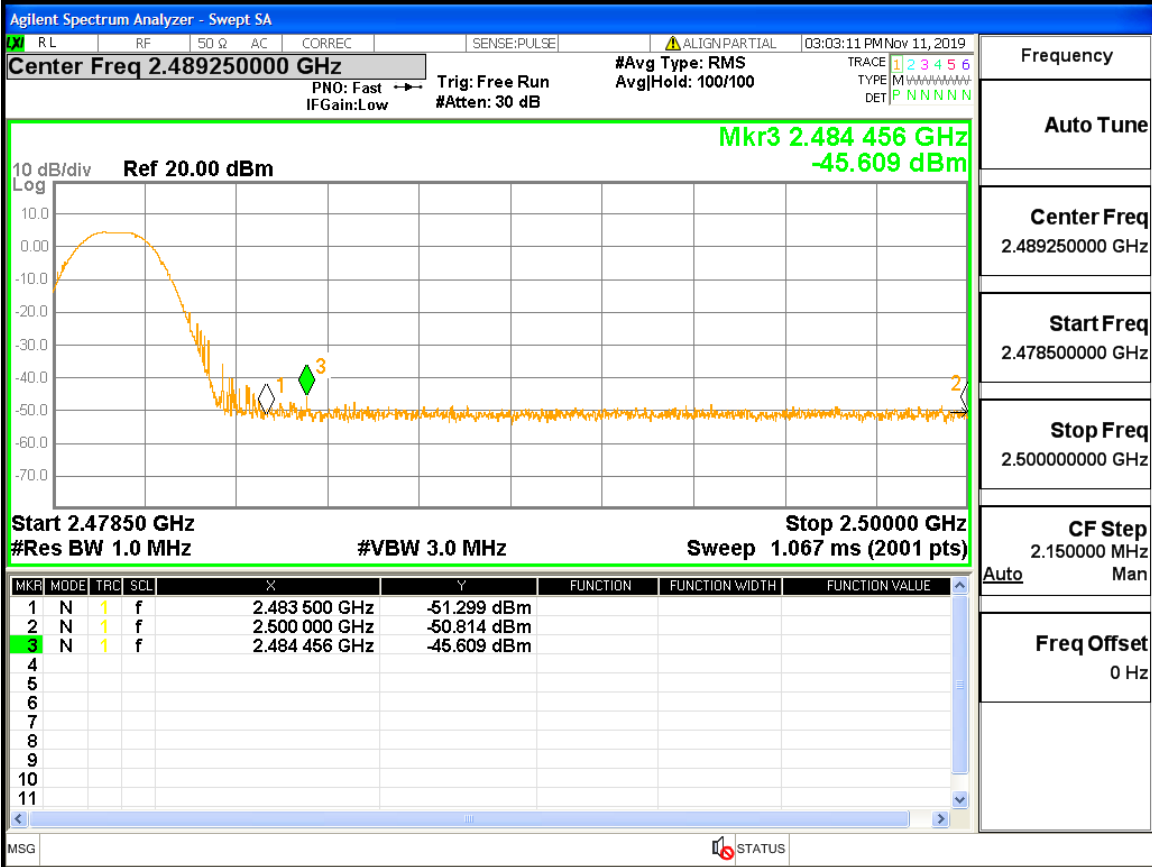
Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_PEAK



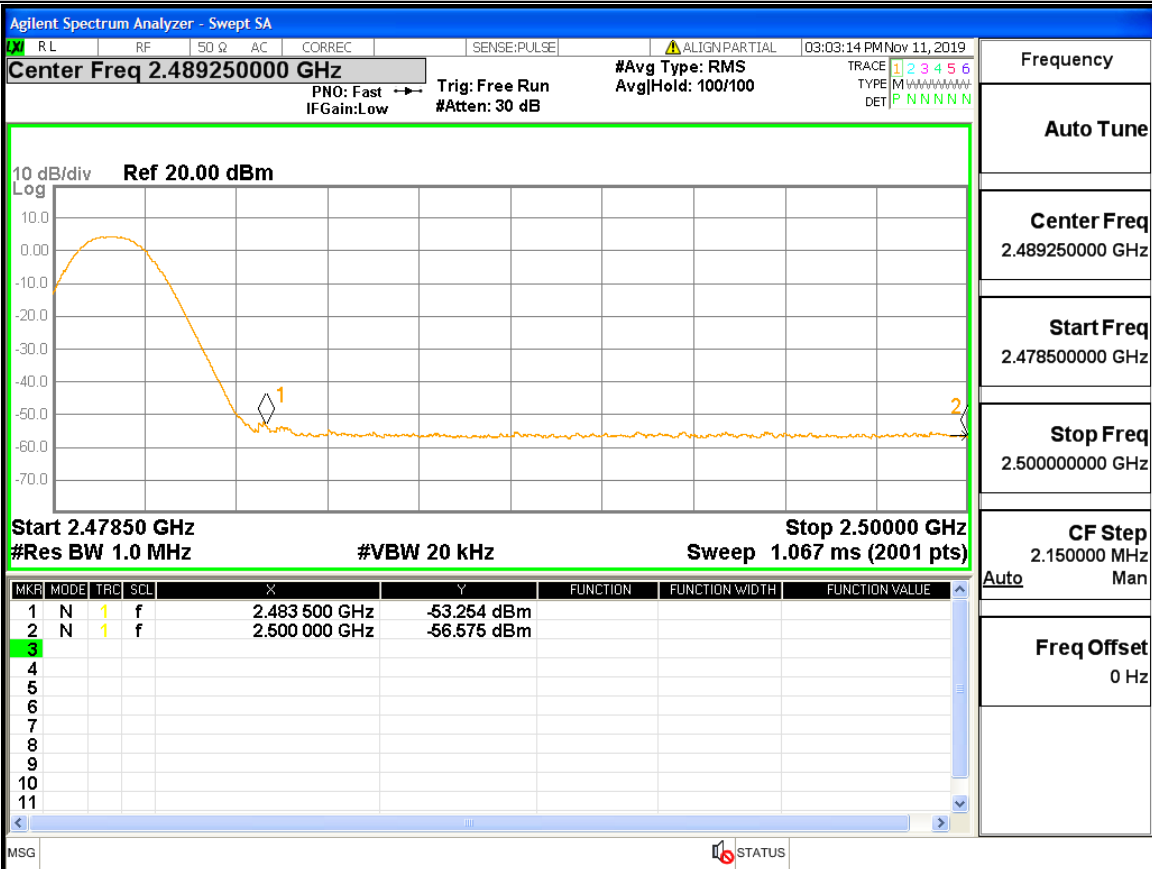
Restrict-band band-edge measurements\_BLE\_2402\_Ant1\_AV



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	63.14	PASS

