## **Appendix B**

# RF Test Data for BT V4.2 (LE) (Conducted Measurement)

**Product Name: Shower Speaker** 

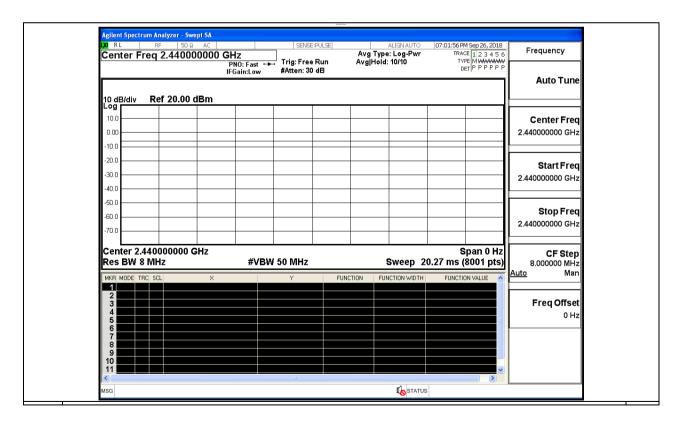
Trade Mark: atomi Test Model: AT1225

#### **Environmental Conditions**

Temperature:	24.3 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

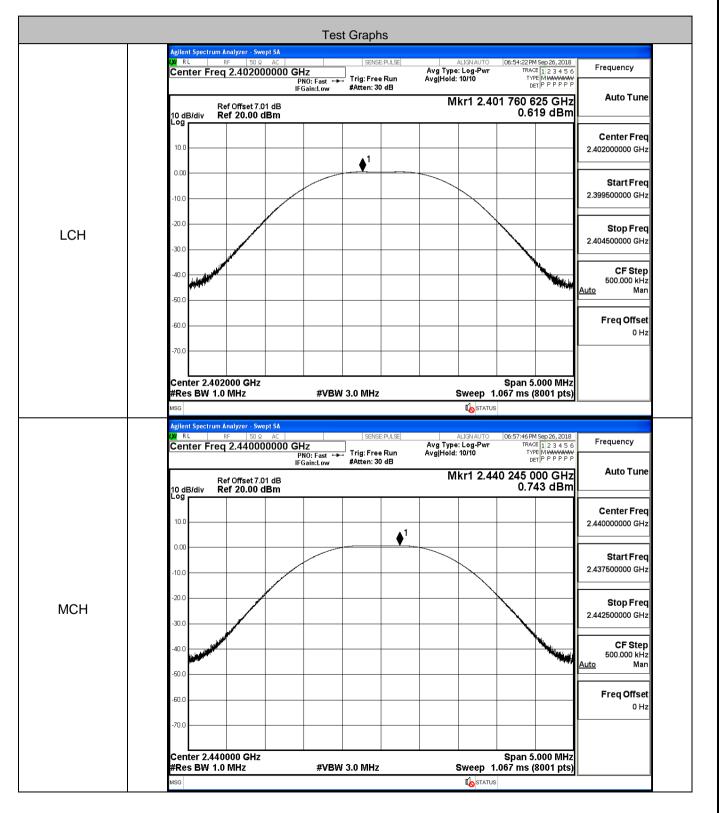
## **B.1 Duty Cycle**

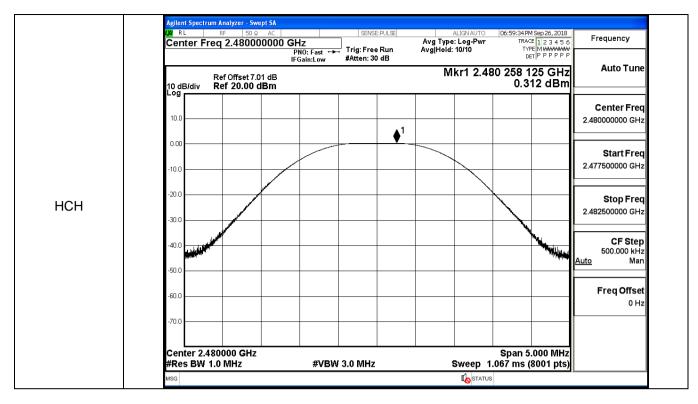
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



### **B.2 Maximum Conducted Peak Output Power**

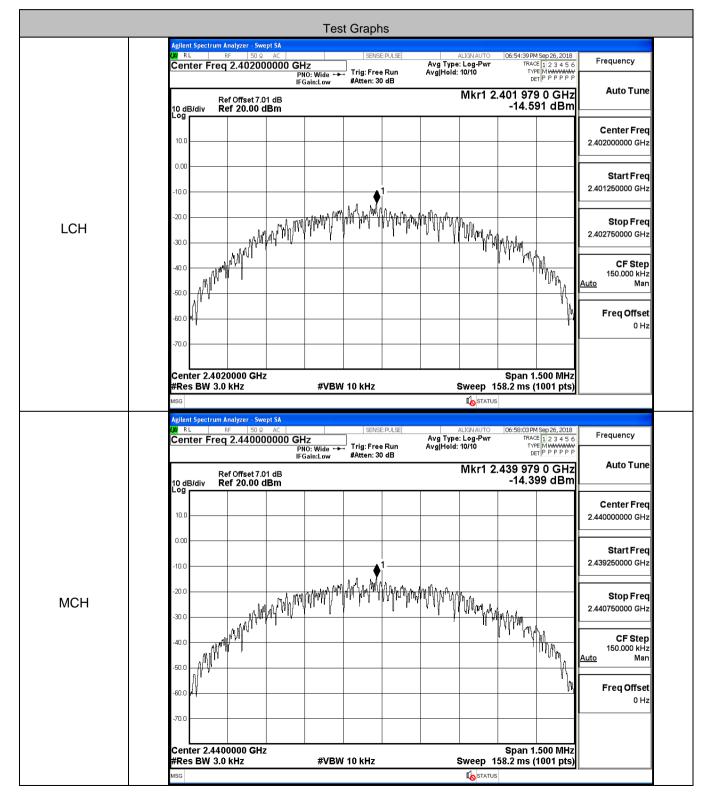
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.619	30	PASS
BT LE	мсн	0.743	30	PASS
BT LE	НСН	0.312	30	PASS

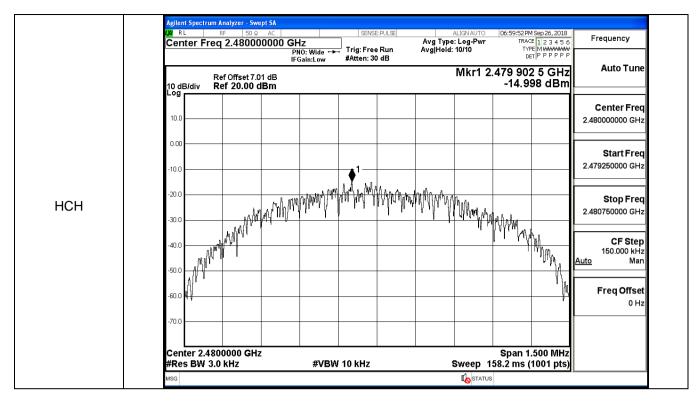




### **B.3 Maximum Power Spectral Density**

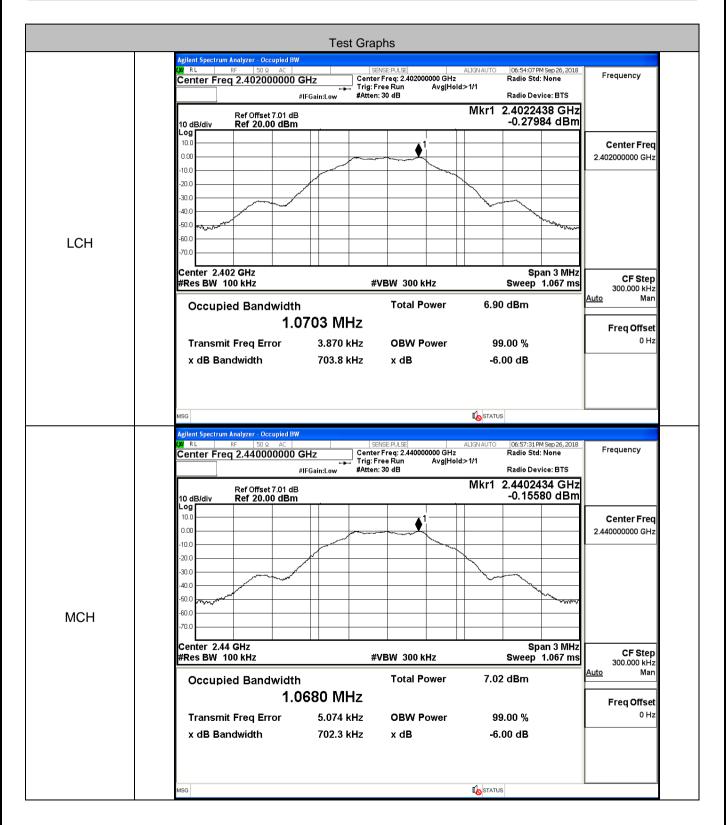
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.591	8	PASS
BT LE	MCH	-14.399	8	PASS
BT LE	НСН	-14.998	8	PASS

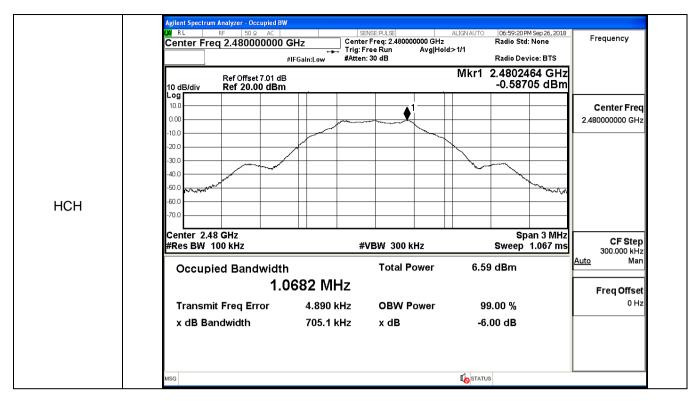




#### **B.4 6dB Bandwidth**

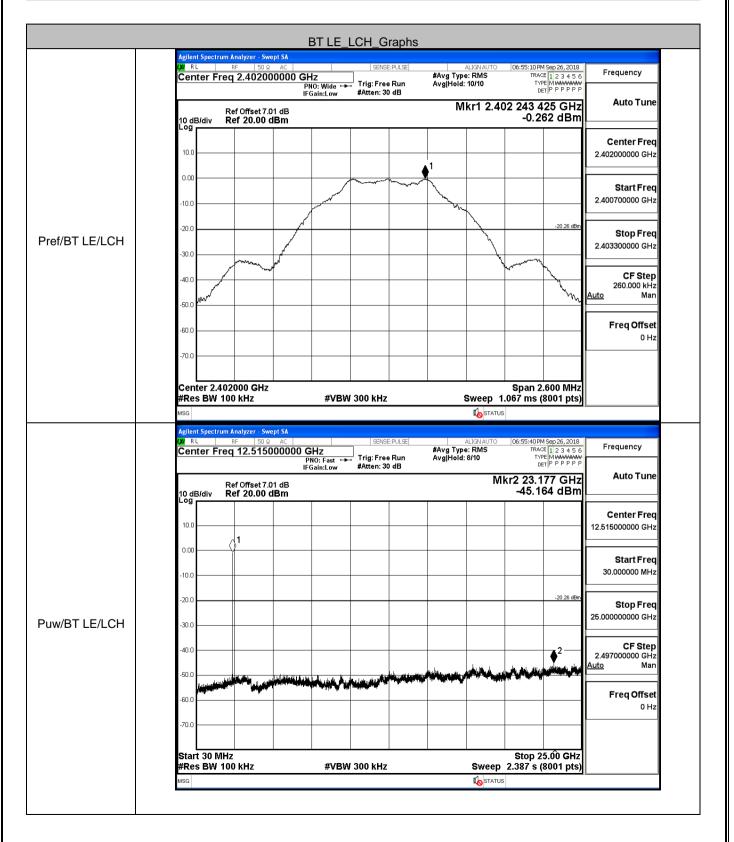
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7038	≥0.5	PASS
BT LE	MCH	0.7023	≥0.5	PASS
BT LE	HCH	0.7051	≥0.5	PASS

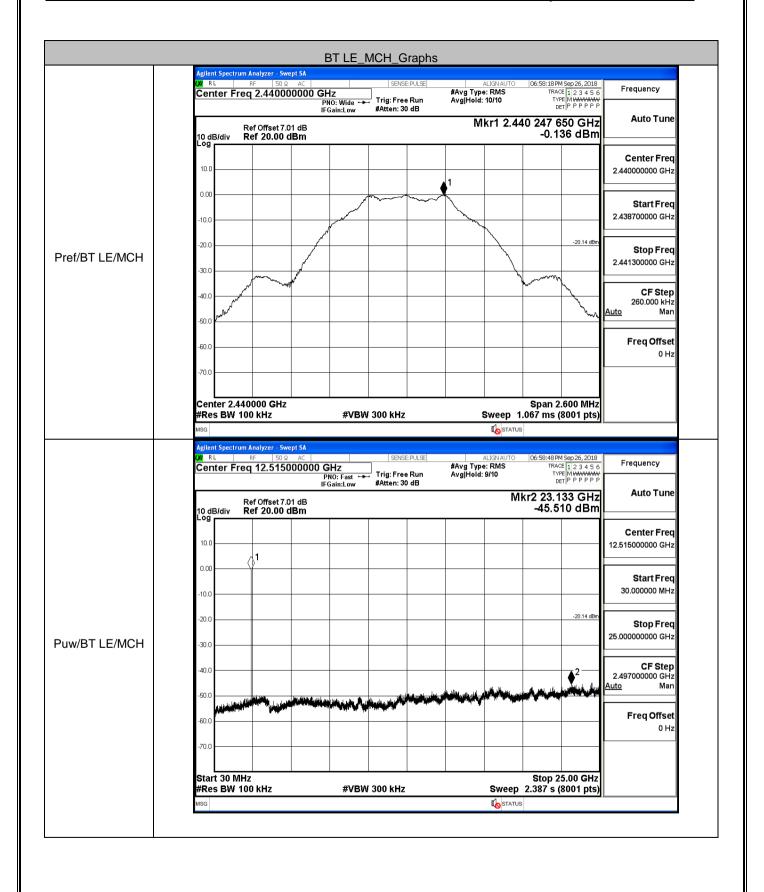


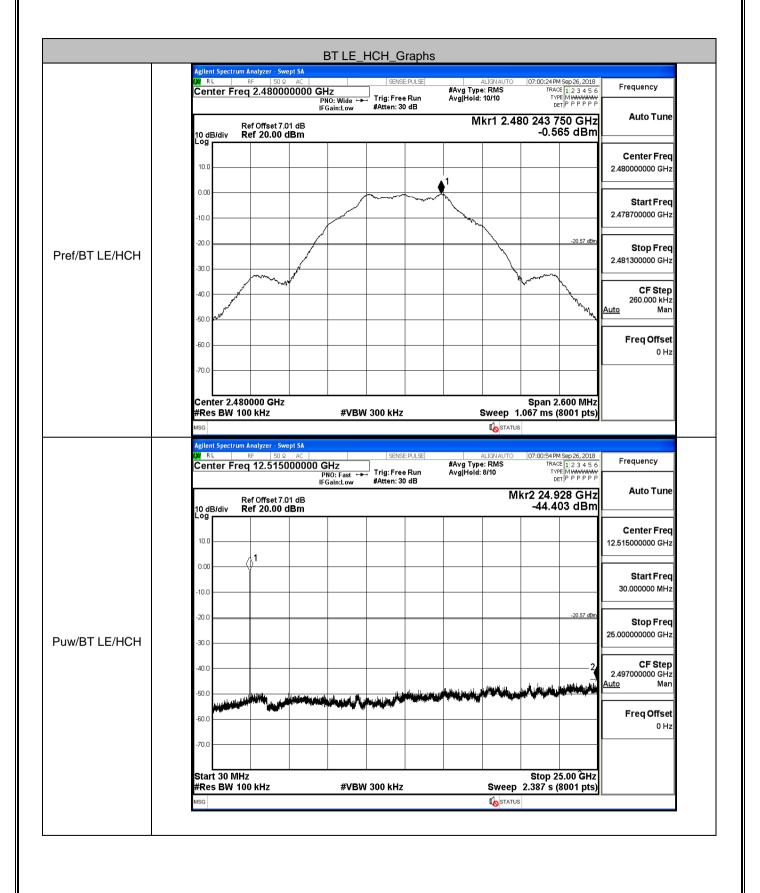


### **B.5 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.262	-45.164	-20.262	PASS
BT LE	MCH	-0.136	-45.510	-20.136	PASS
BT LE	НСН	-0.565	-44.403	-20.565	PASS

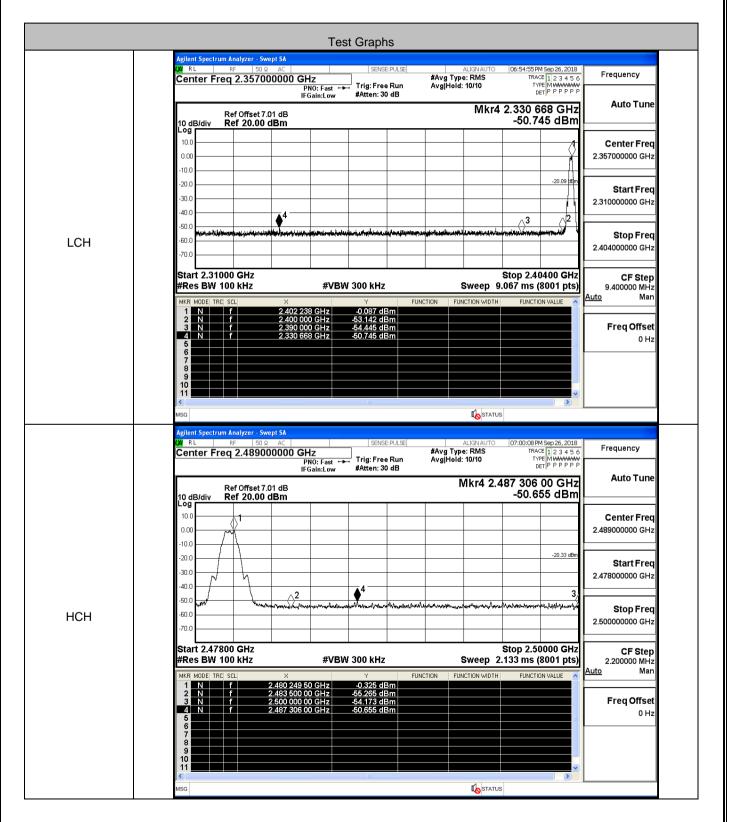






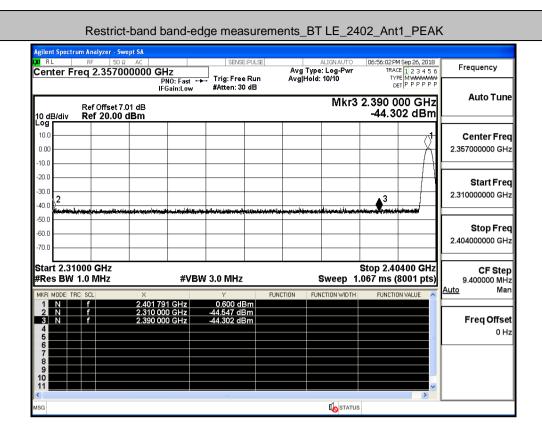
## **B.6 Band-edge for RF Conducted Emissions**

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.087	-50.745	-20.09	PASS
BT LE	HCH	-0.325	-50.655	-20.33	PASS

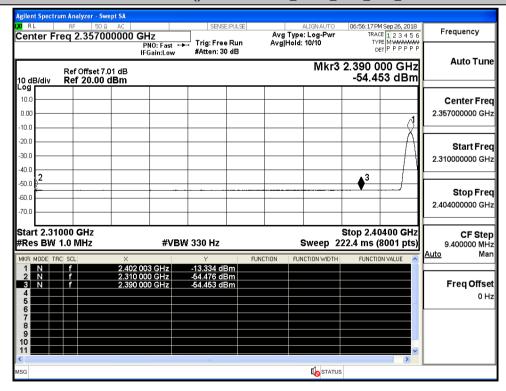


# **B.7 Restrict-band band-edge measurements**

Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-44.55	2.0	0	52.71	PEAK	74	PASS
	2402	Ant1	2310.0	-54.48	2.0	0	42.78	AV	54	PASS
		Ant1	2390.0	-44.30	2.0	0	52.96	PEAK	74	PASS
		Ant1	2390.0	-54.45	2.0	0	42.80	AV	54	PASS
BT LE	2480	Ant1	2483.5	-44.04	2.0	0	53.22	PEAK	74	PASS
		Ant1	2483.5	-54.05	2.0	0	43.21	AV	54	PASS
		Ant1	2500.0	-44.01	2.0	0	53.25	PEAK	74	PASS
		Ant1	2500.0	-54.00	2.0	0	43.26	AV	54	PASS

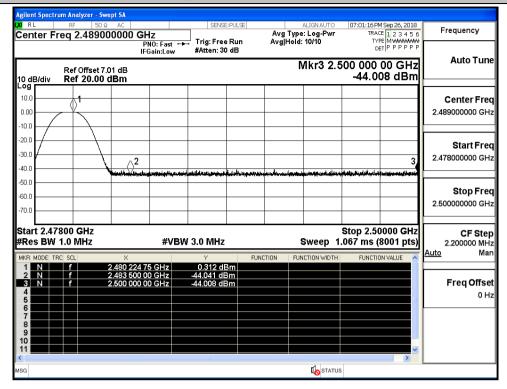


#### Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



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#### Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



#### Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

