

Appendix B

RF Test Data for BT 5.0BLE(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Beanie Hat

Trade Mark: N/A

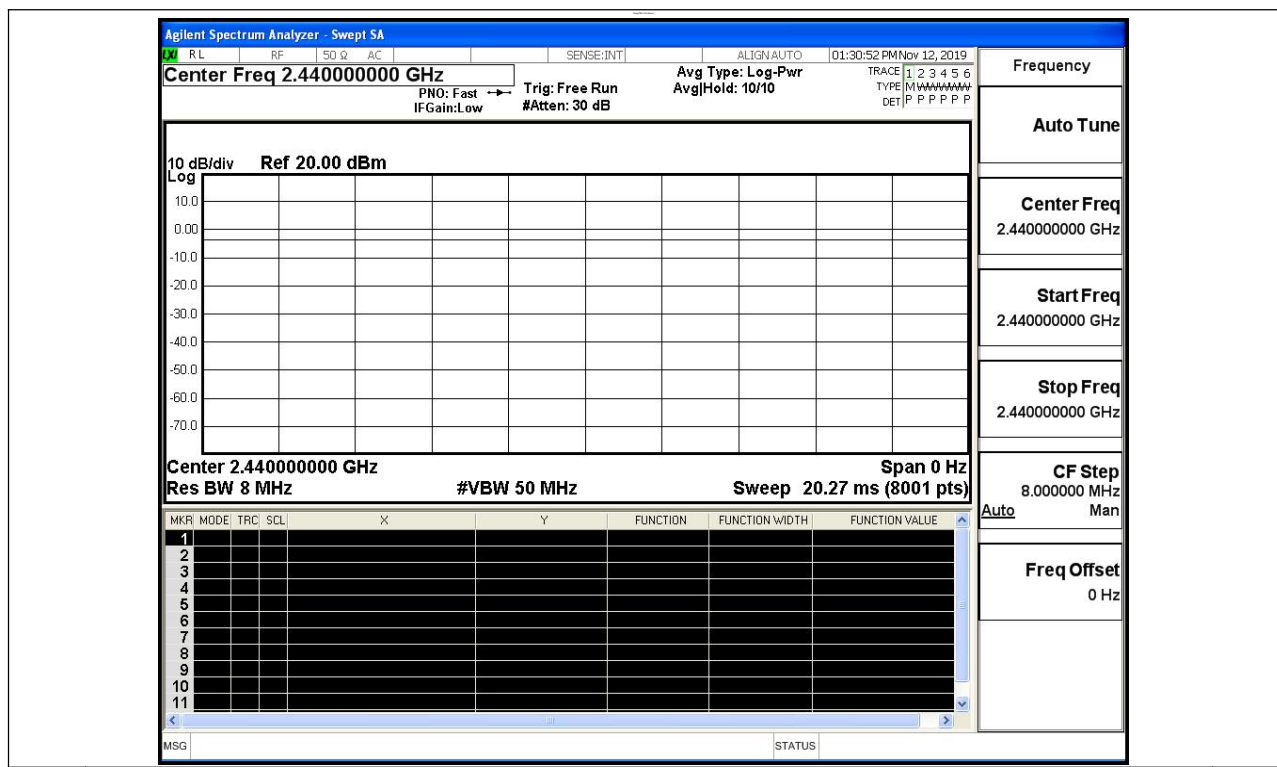
Test Model: DX897BH

Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	JK ZHOU
Supervised by:	Tom.Liu

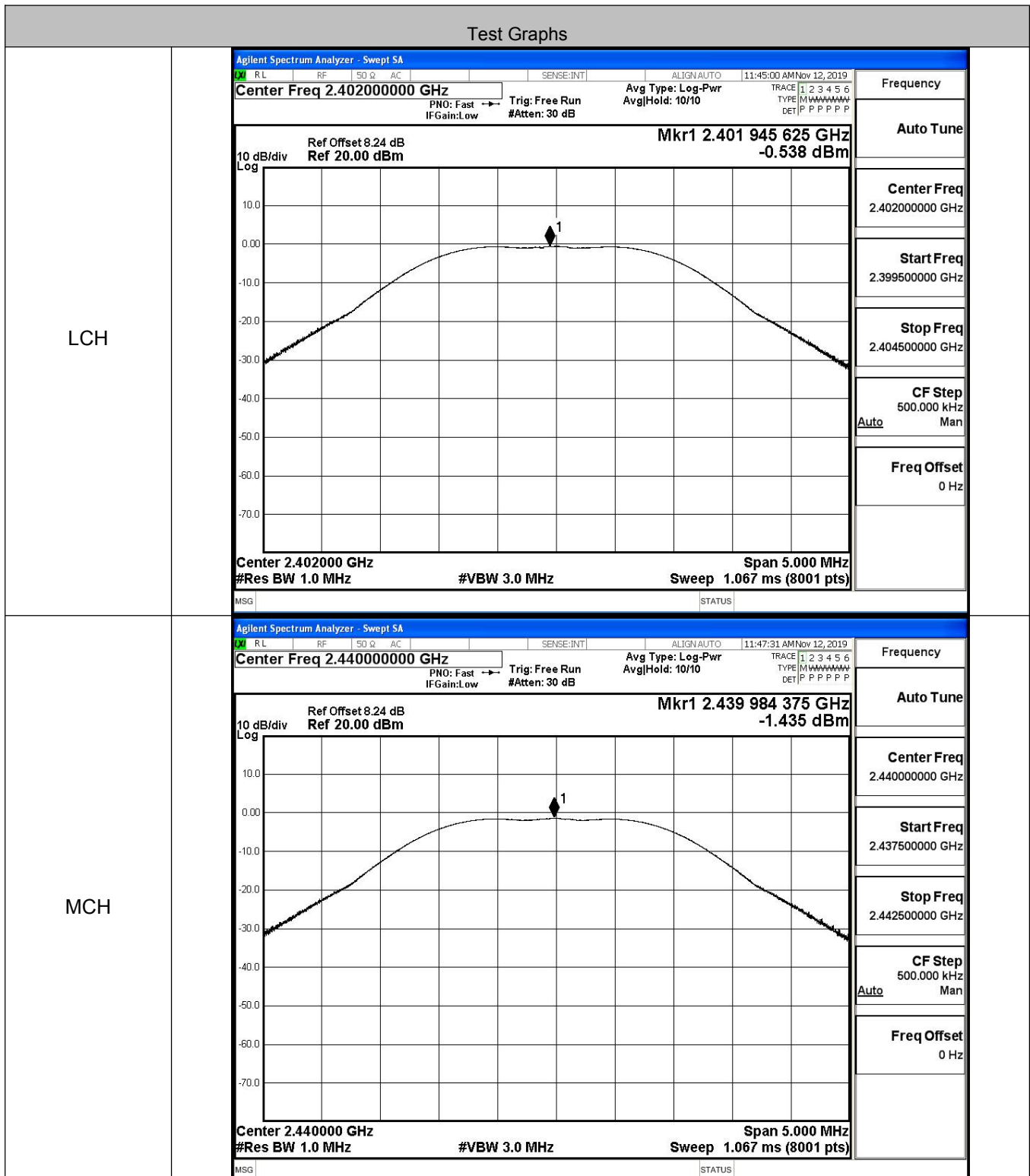
B.1 Duty Cycle

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

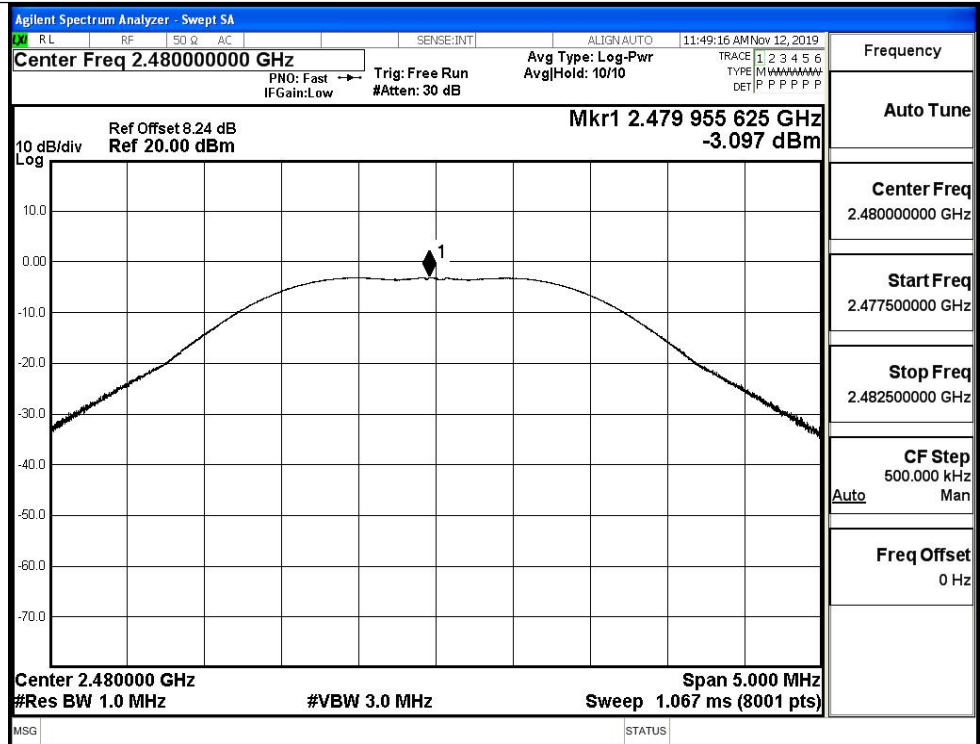


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.538	30	PASS
BT LE	MCH	-1.435	30	PASS
BT LE	HCH	-3.097	30	PASS



HCH

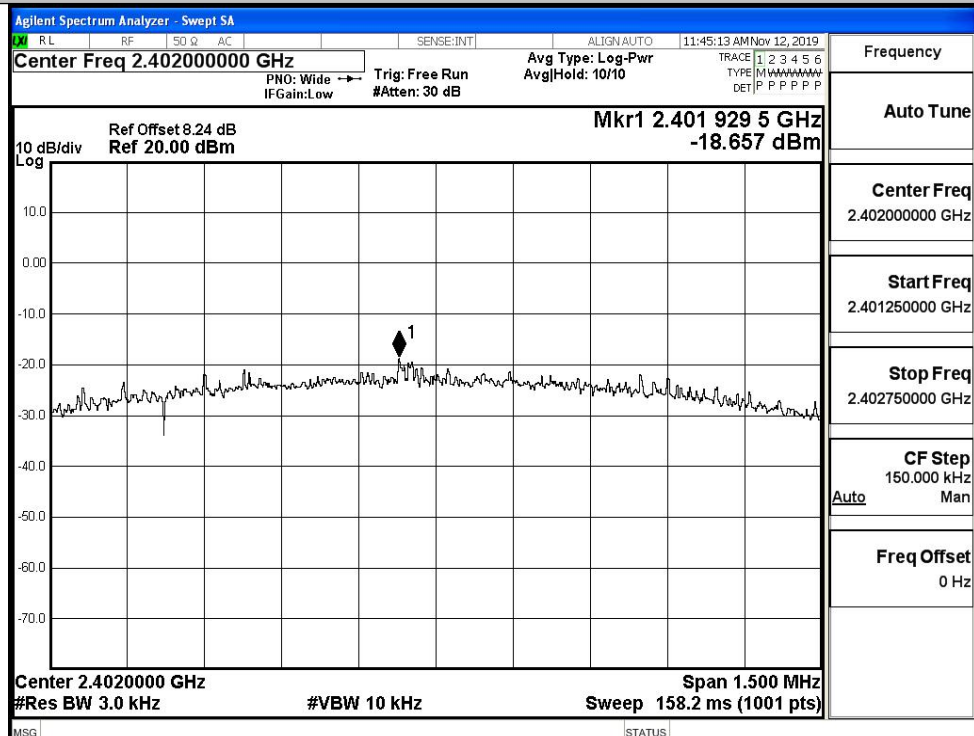


B.3 Maximum Power Spectral Density

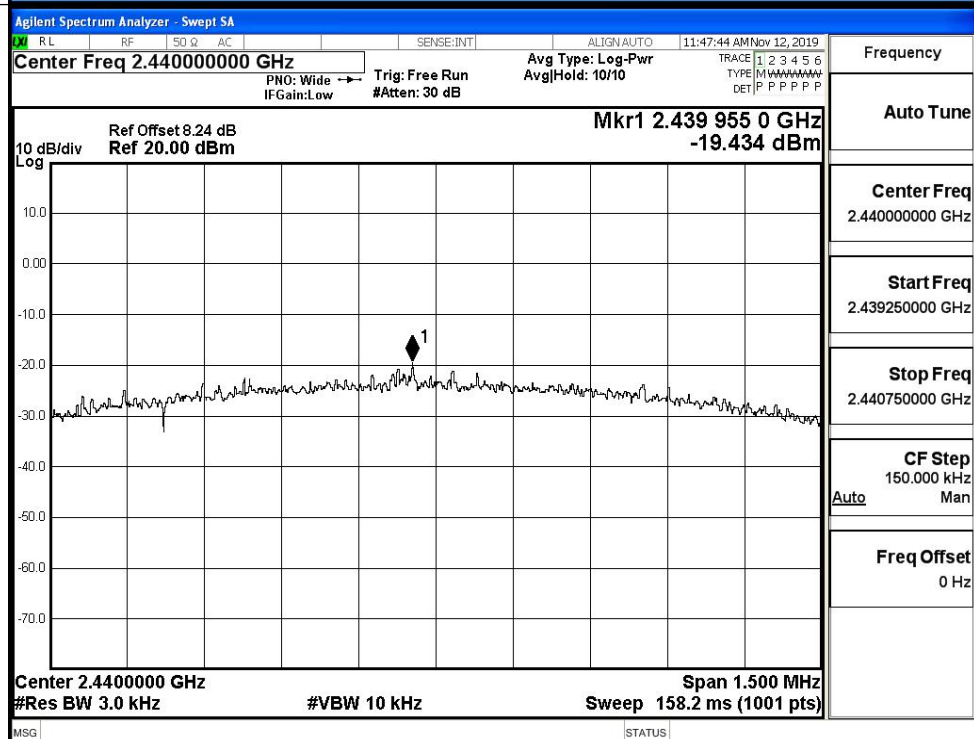
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.657	8	PASS
BT LE	MCH	-19.434	8	PASS
BT LE	HCH	-20.571	8	PASS

Test Graphs

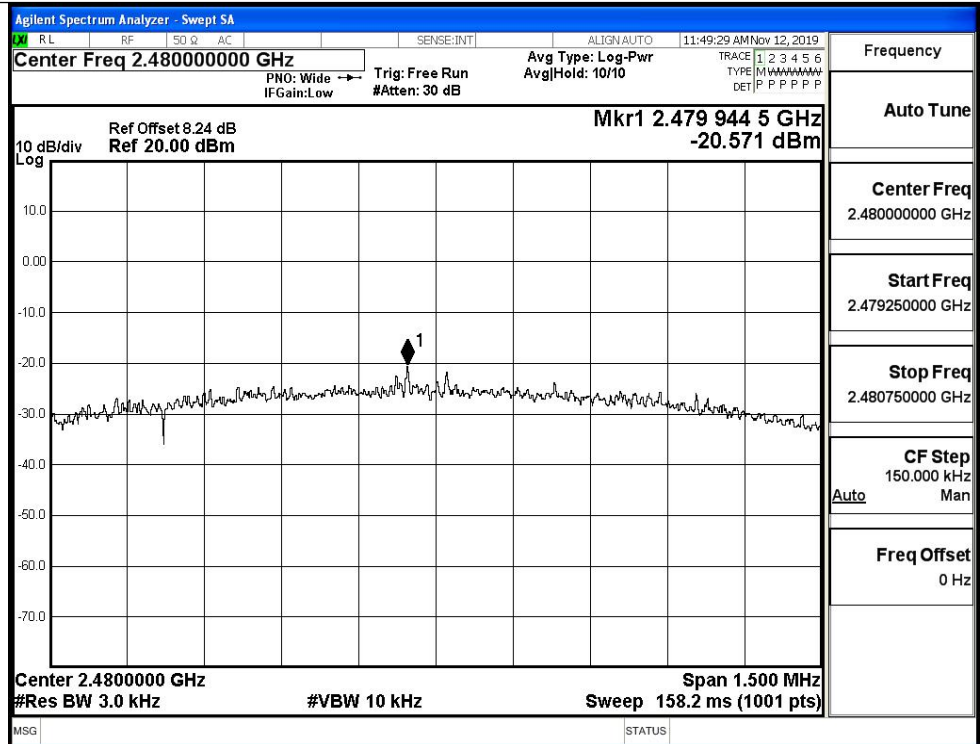
LCH



MCH



HCH

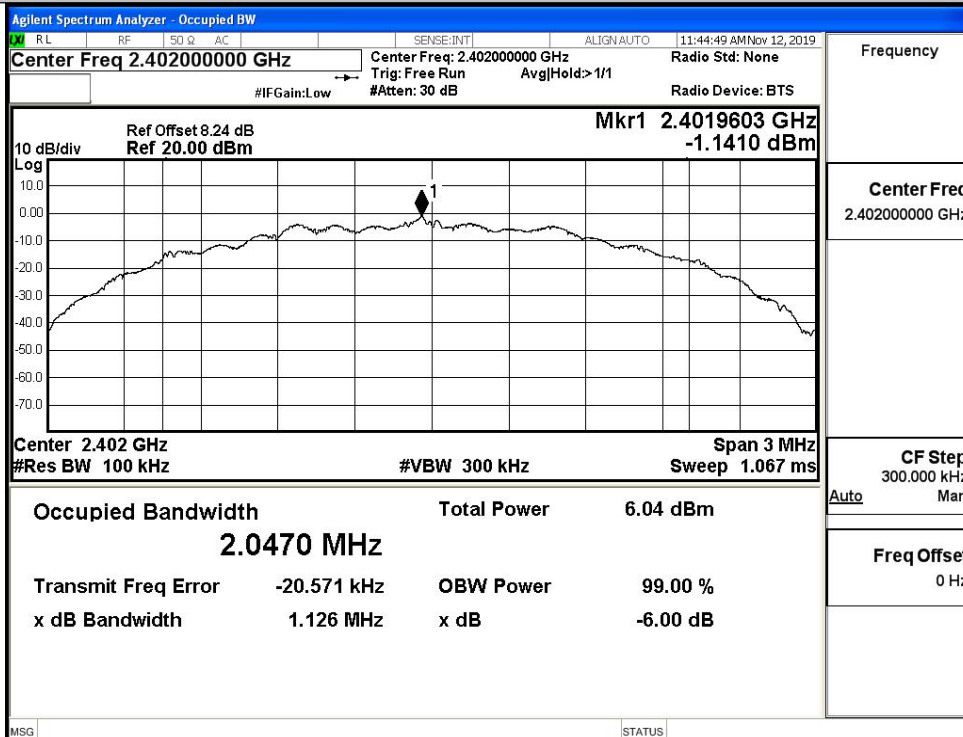


B.4 6dB Bandwidth

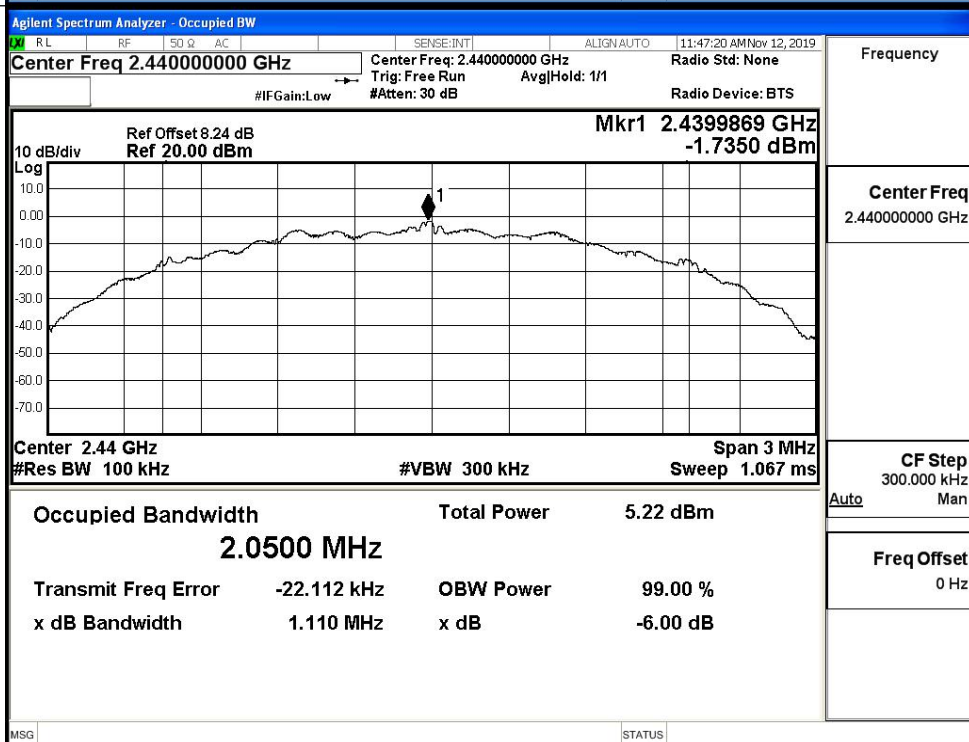
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.126	≥ 0.5	PASS
BT LE	MCH	1.110	≥ 0.5	PASS
BT LE	HCH	1.121	≥ 0.5	PASS

Test Graphs

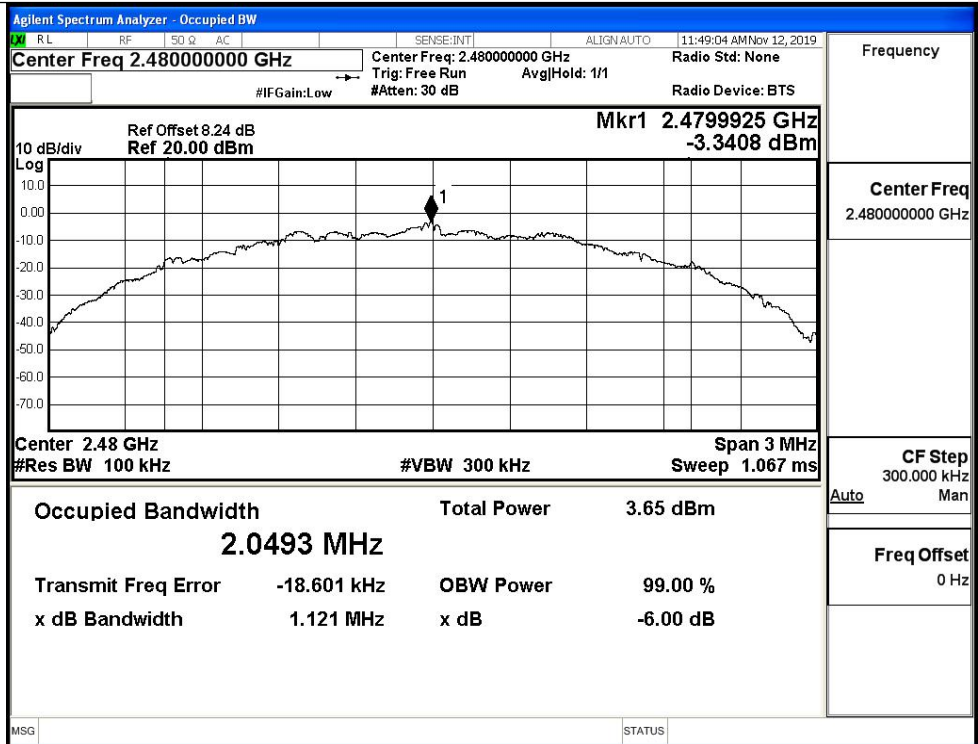
LCH



MCH



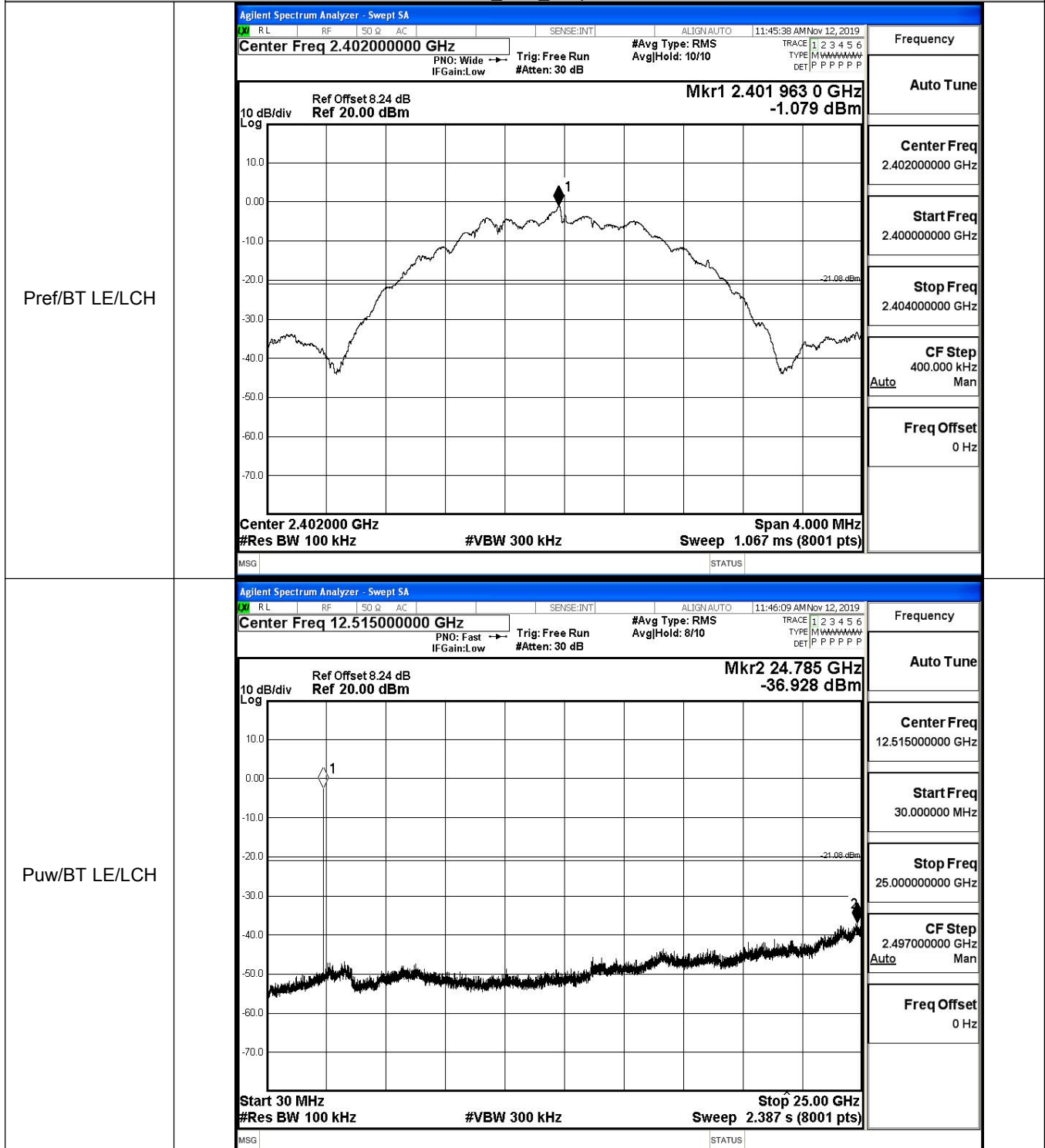
HCH



B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.079	-36.928	-21.079	PASS
BT LE	MCH	-1.758	-36.627	-21.758	PASS
BT LE	HCH	-3.417	-36.845	-23.417	PASS

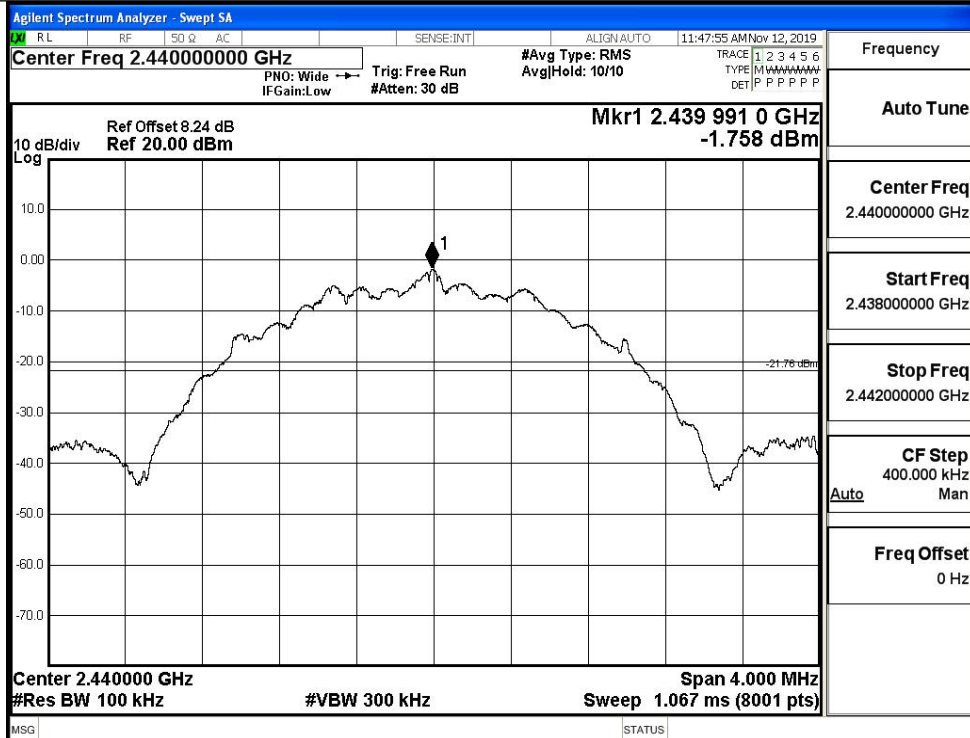
BT LE_LCH_Graphs



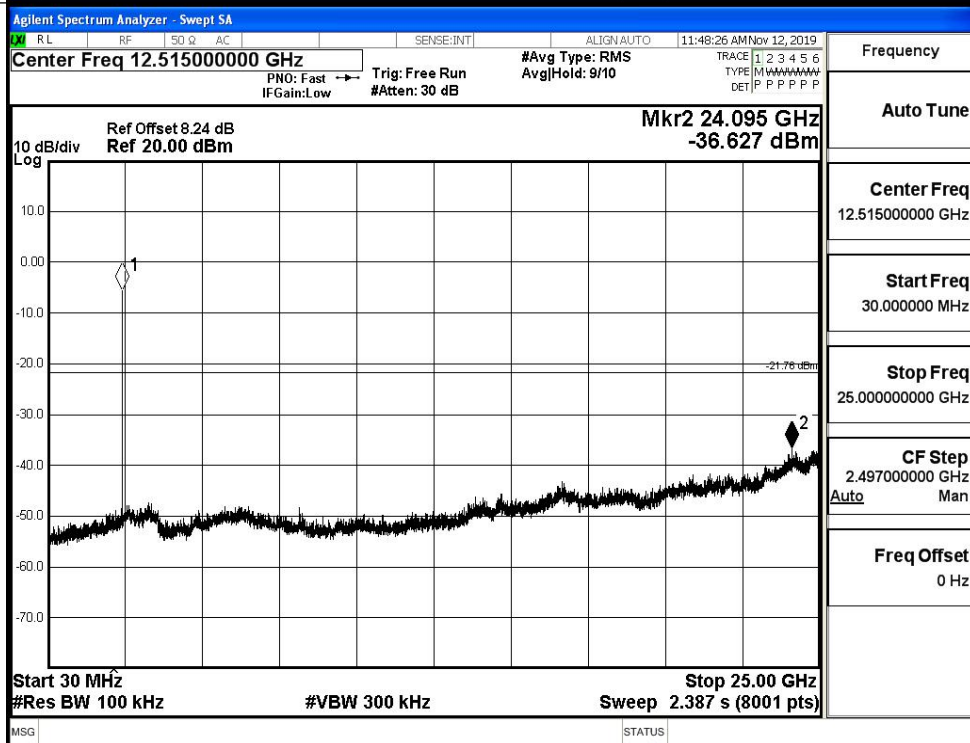
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BT LE MCH Graphs

Pref/BT LE/MCH

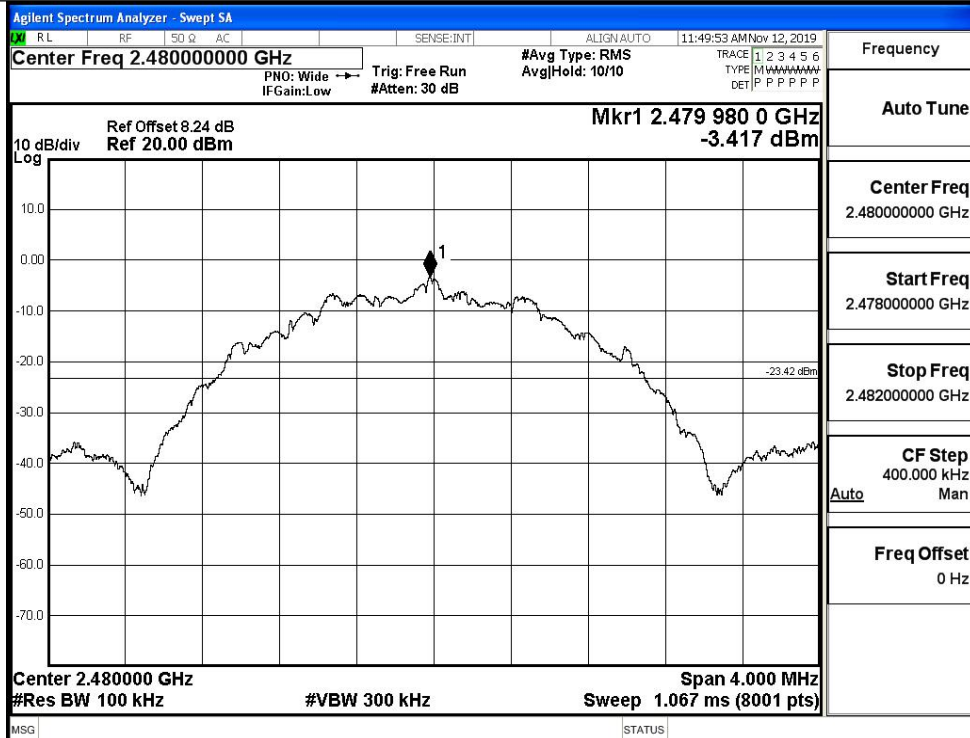


Puw/BT LE/MCH

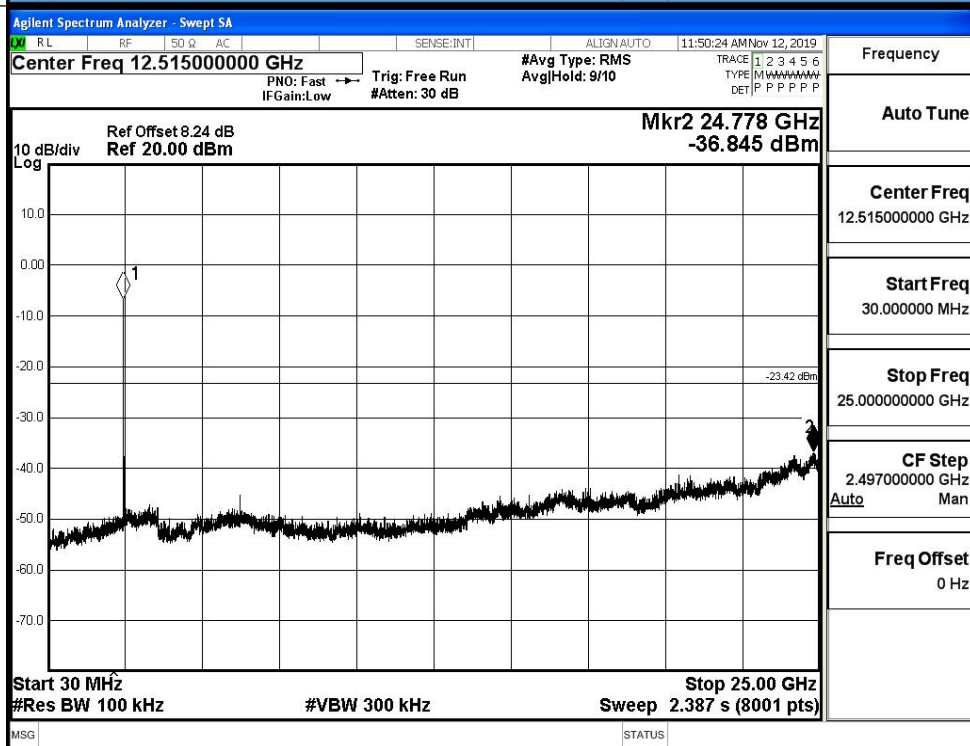


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

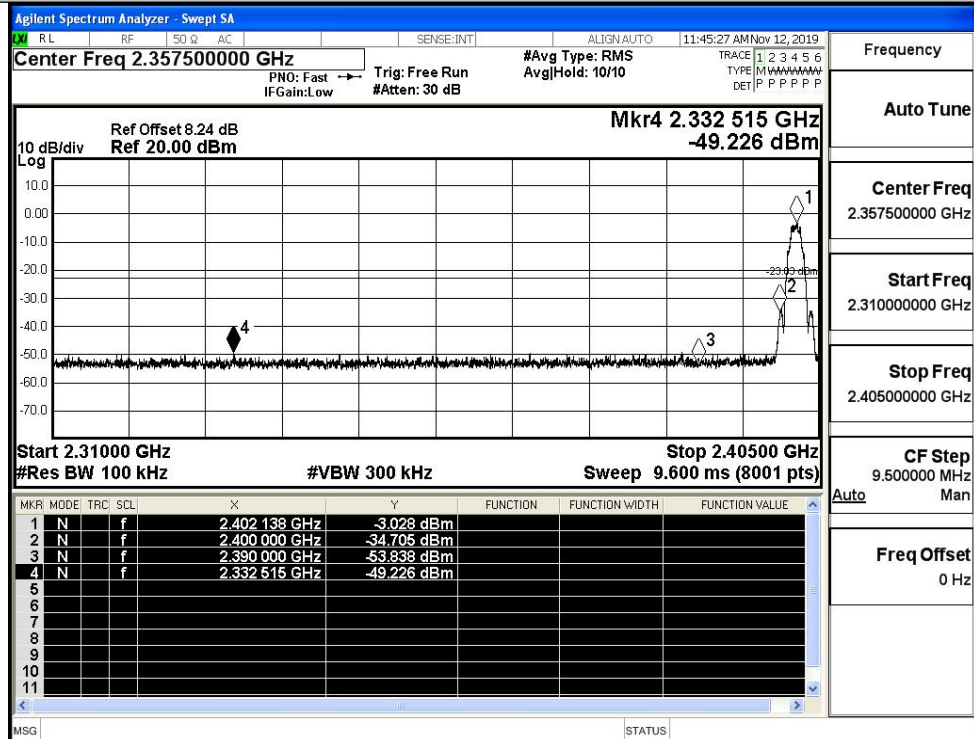


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.028	-49.226	-23.03	PASS
BT LE	HCH	-3.426	-49.196	-23.43	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.405000000 GHz

CF Step

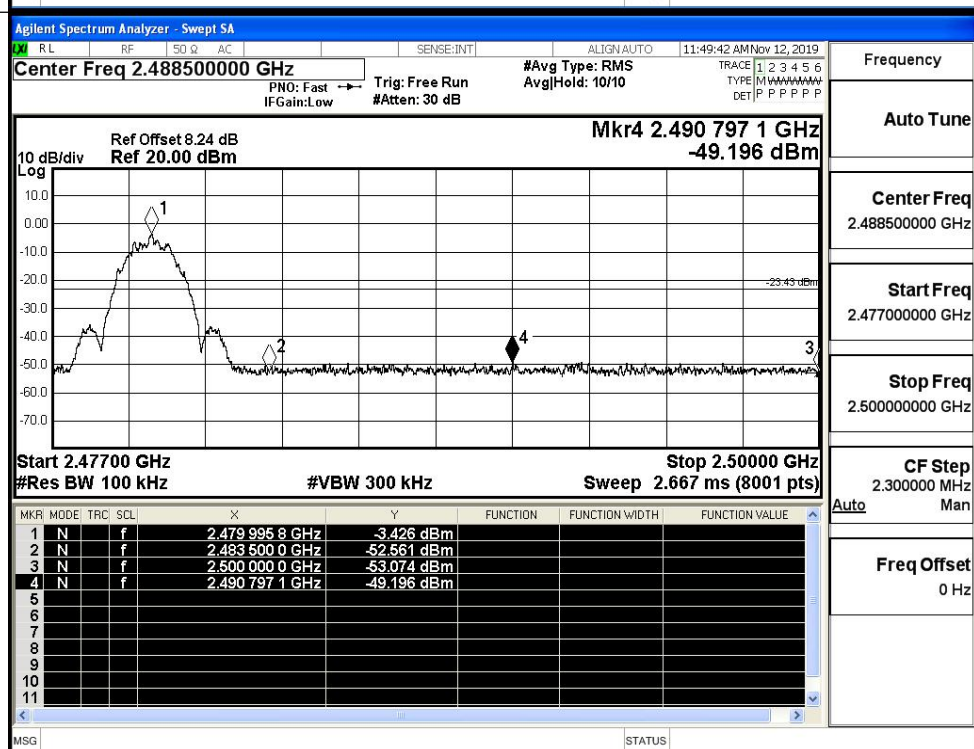
9.500000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.488500000 GHz

Start Freq

2.477000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.300000 MHz

Auto Man

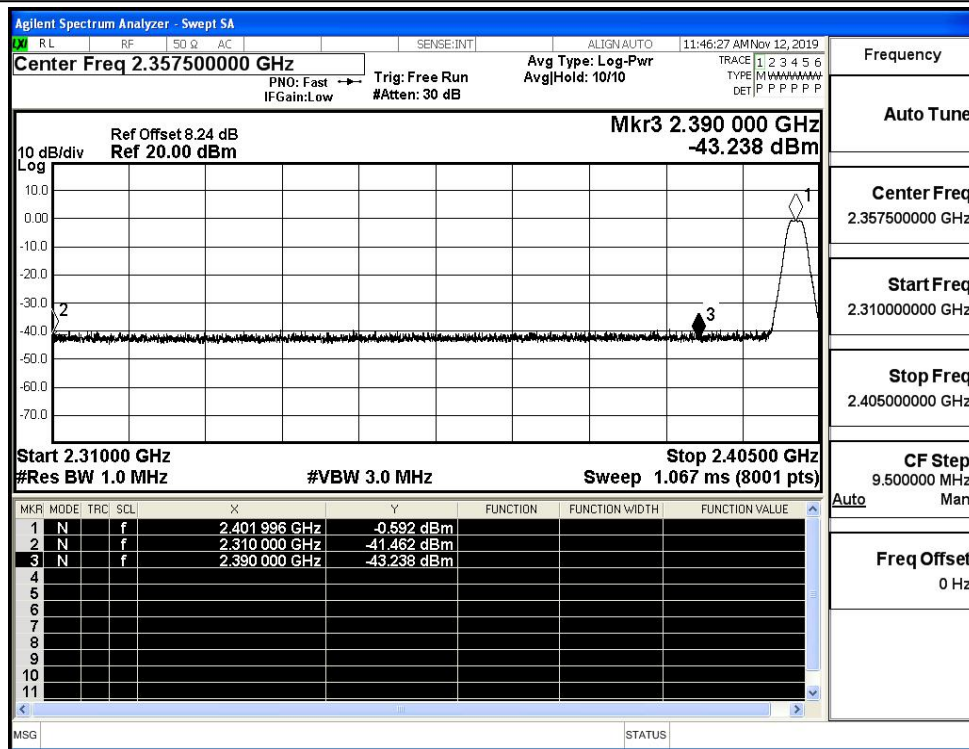
Freq Offset

0 Hz

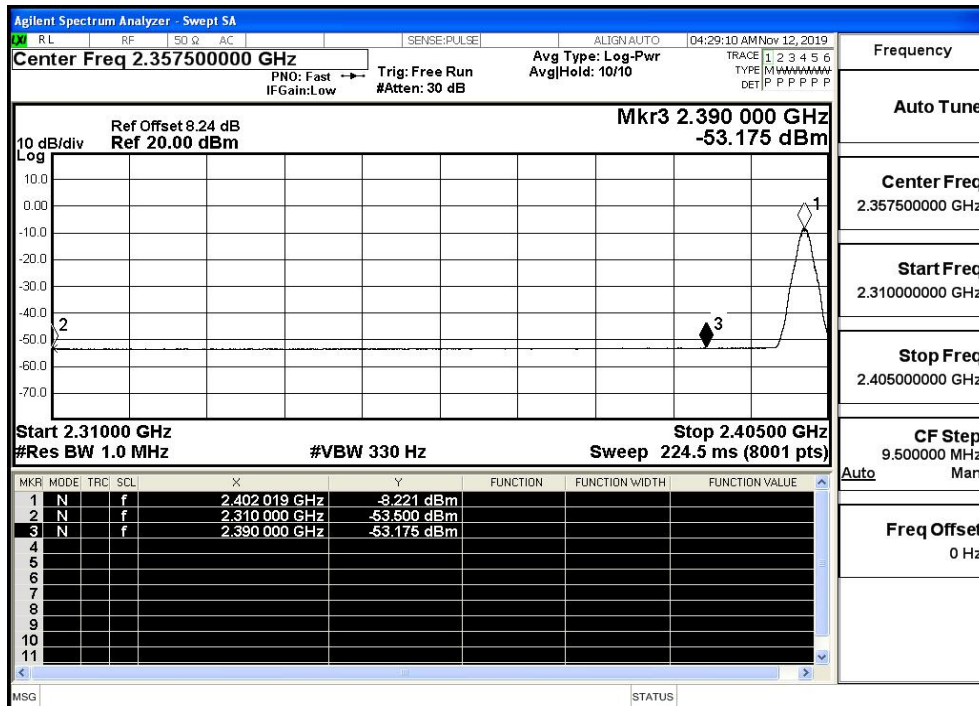
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-41.46	2.0	0	53.80	PEAK	74	PASS
		Ant1	2310.0	-53.50	2.0	0	41.76	AV	54	PASS
		Ant1	2390.0	-43.24	2.0	0	52.02	PEAK	74	PASS
		Ant1	2390.0	-52.84	2.0	0	42.42	AV	54	PASS
	2480	Ant1	2483.5	-41.75	2.0	0	53.51	PEAK	74	PASS
		Ant1	2483.5	-51.68	2.0	0	43.58	AV	54	PASS
		Ant1	2500.0	-41.81	2.0	0	53.45	PEAK	74	PASS
		Ant1	2500.0	-51.88	2.0	0	43.38	AV	54	PASS

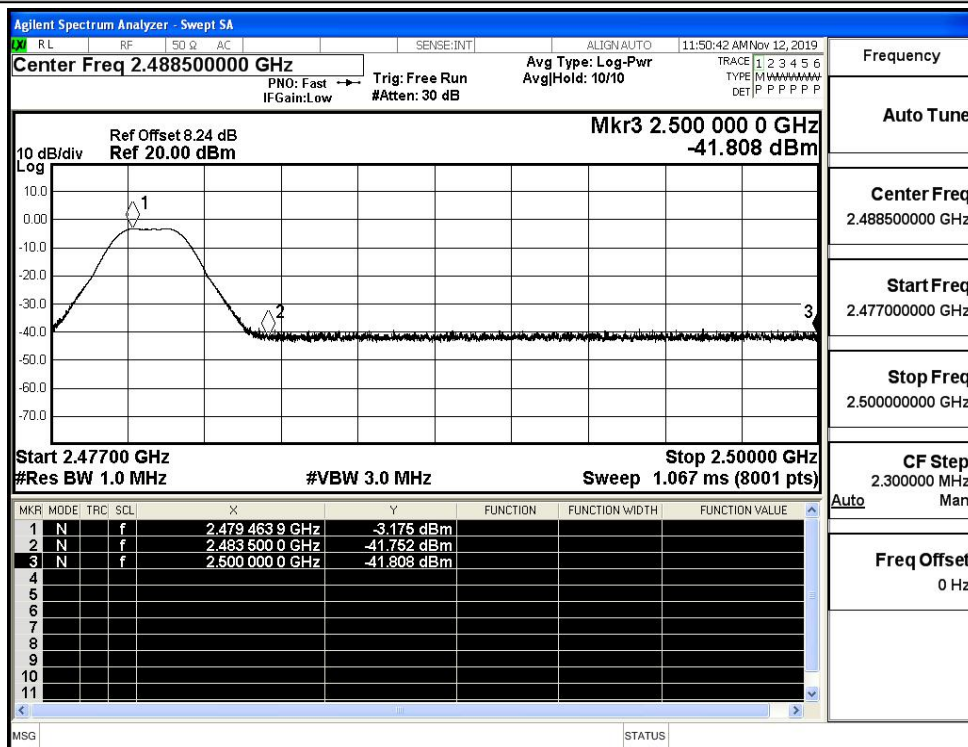
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

