

Appendix B

RF Test Data for BLE V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Urbanista Miami

Trade Mark: Urbanista

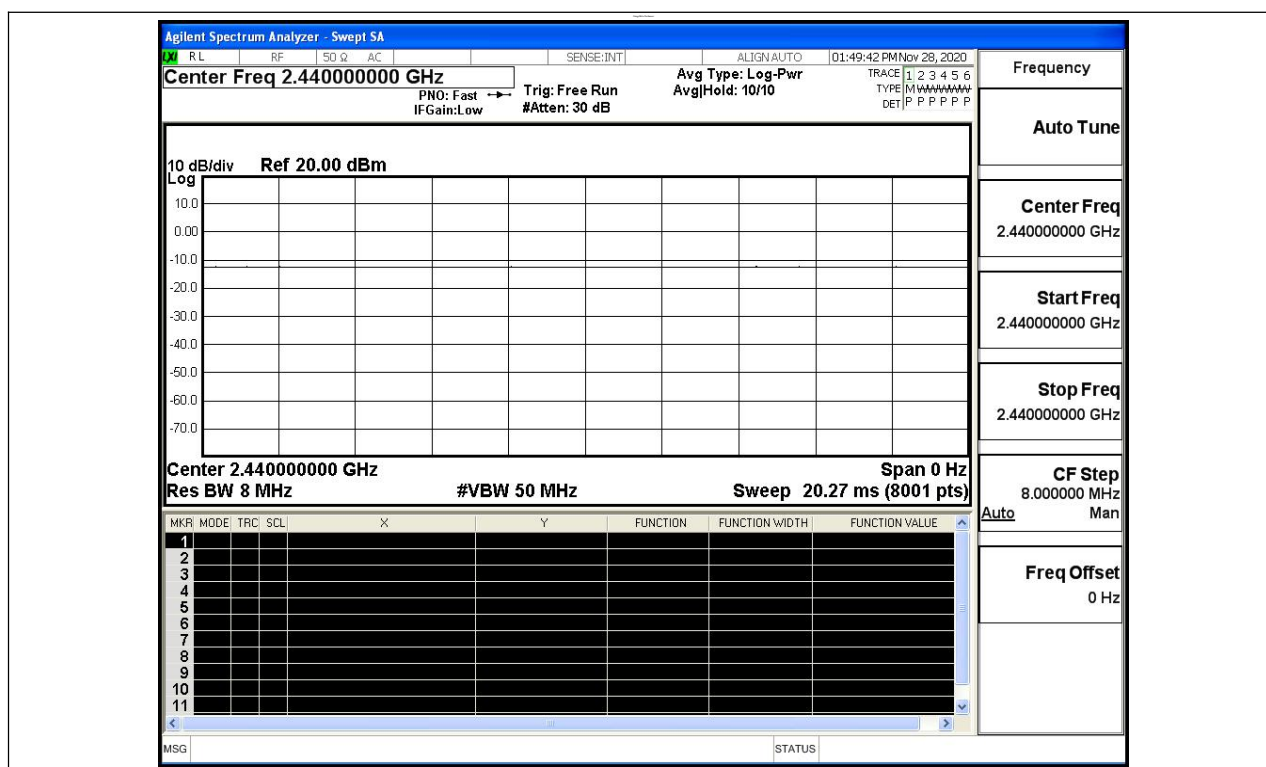
Test Model: Urbanista Miami

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

B.1 Duty Cycle

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

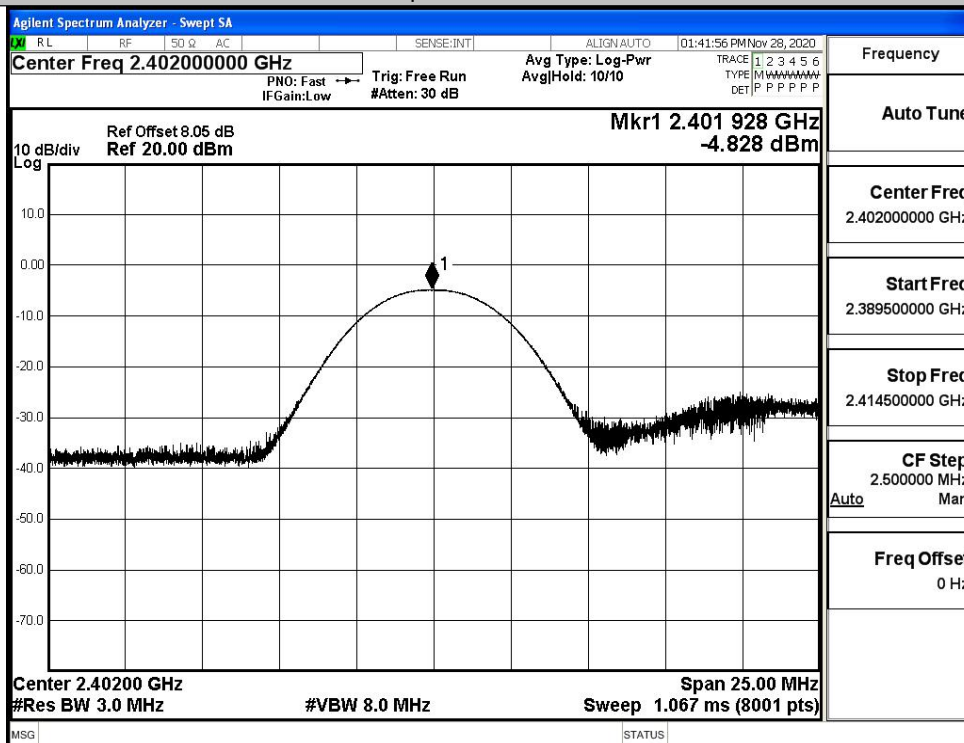


B.2 Maximum Conducted Peak Output Power

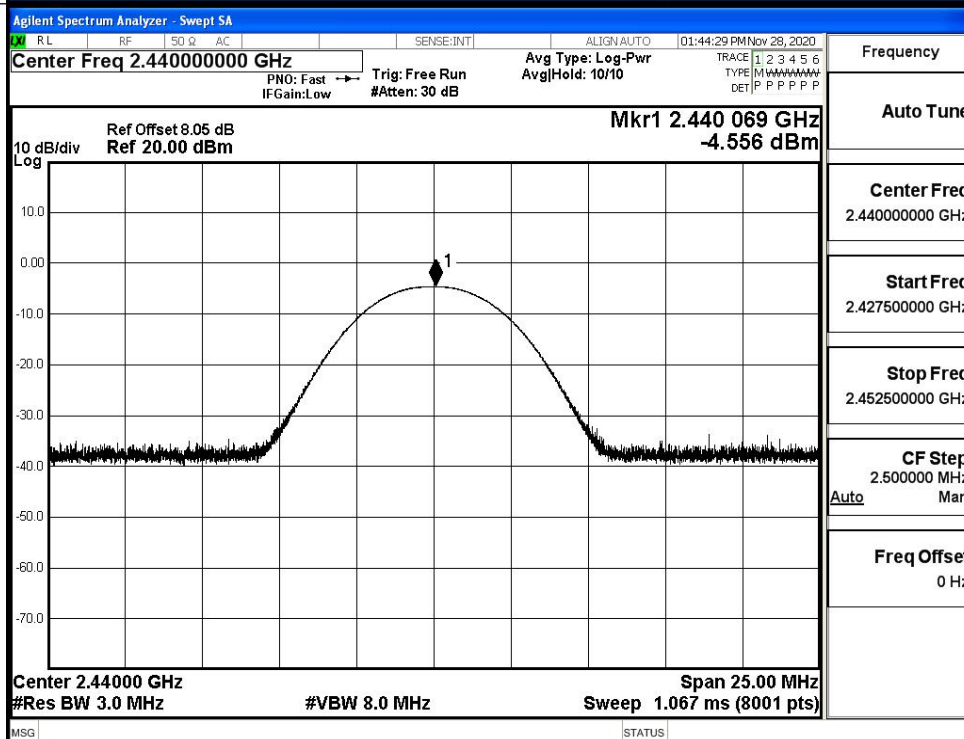
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.828	30	PASS
BT LE	MCH	-4.556	30	PASS
BT LE	HCH	-4.93	30	PASS

Test Graphs

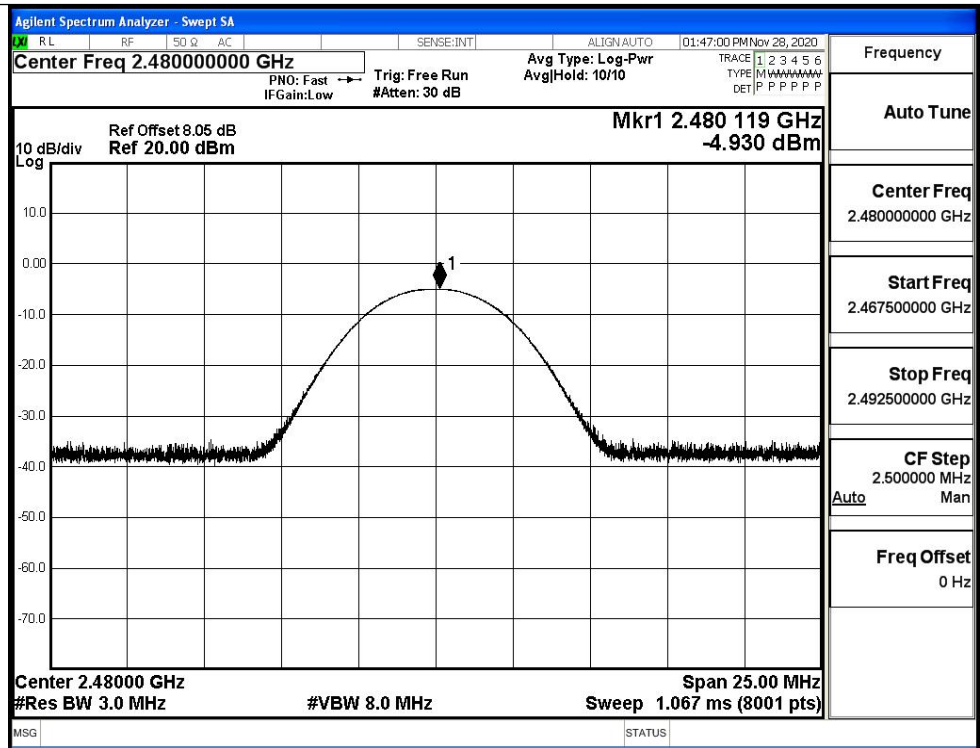
LCH



MCH



HCH

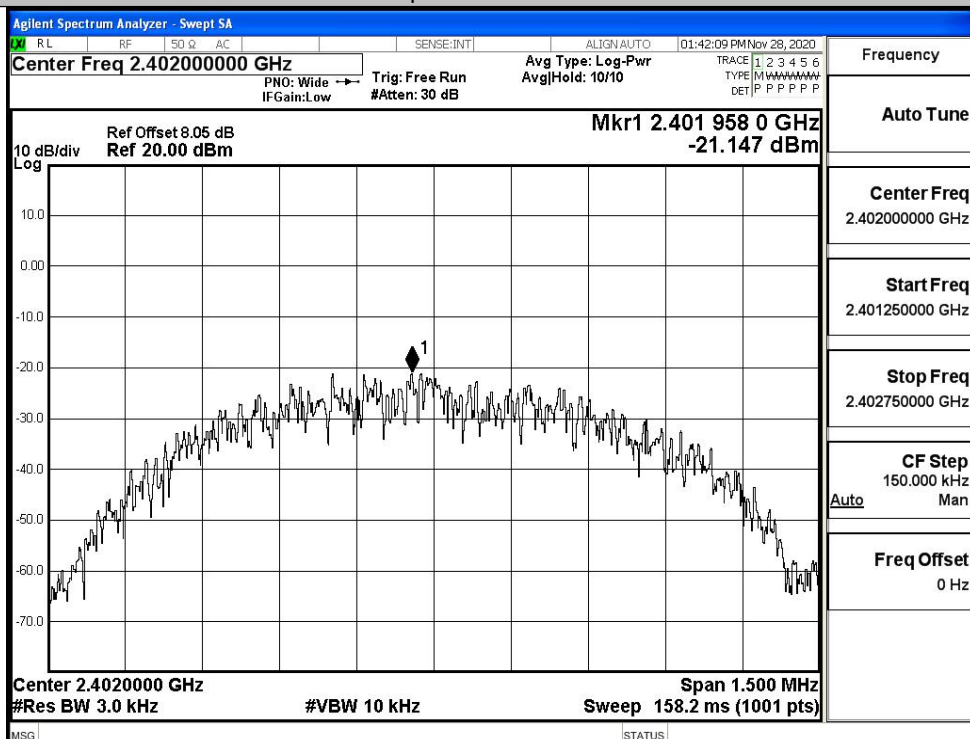


B.3 Maximum Power Spectral Density

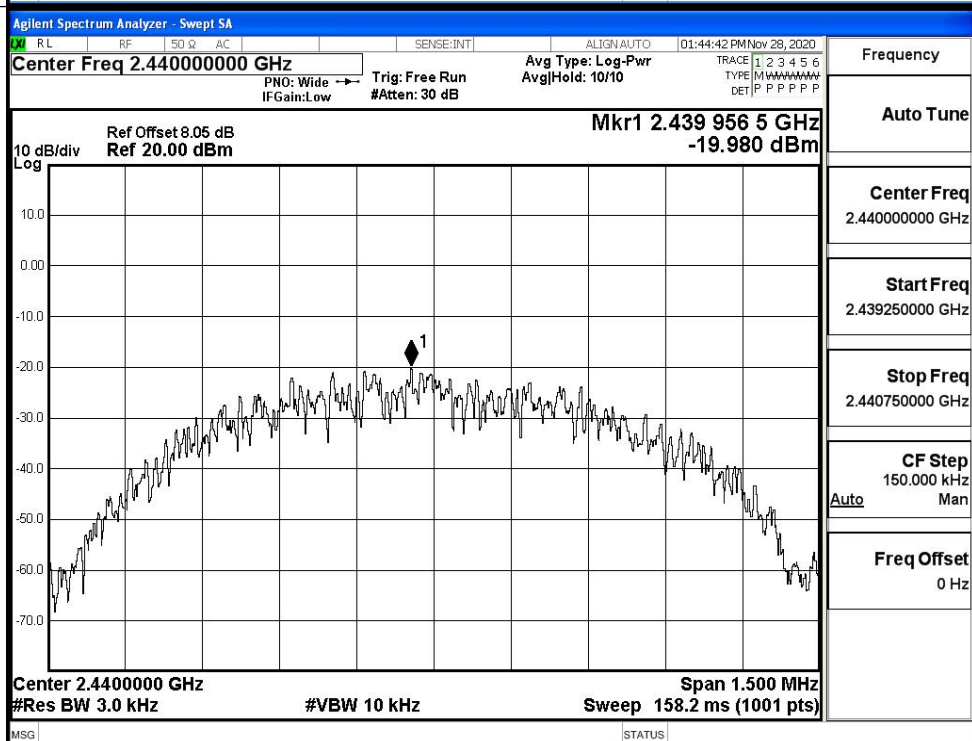
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.147	8	PASS
BT LE	MCH	-19.980	8	PASS
BT LE	HCH	-20.409	8	PASS

Test Graphs

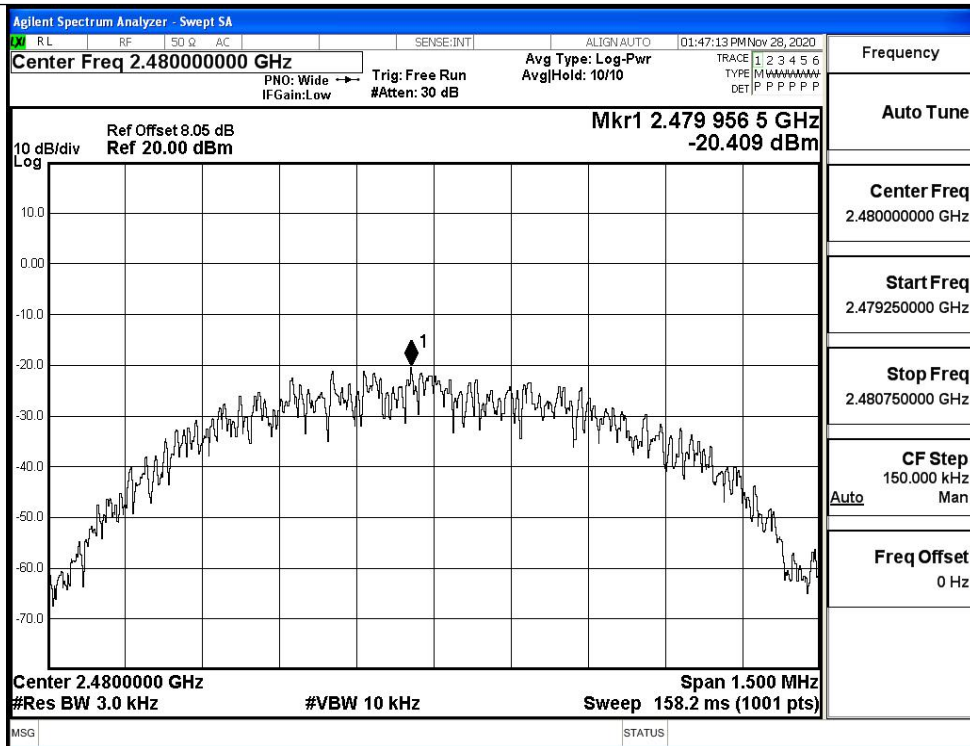
LCH



MCH



HCH

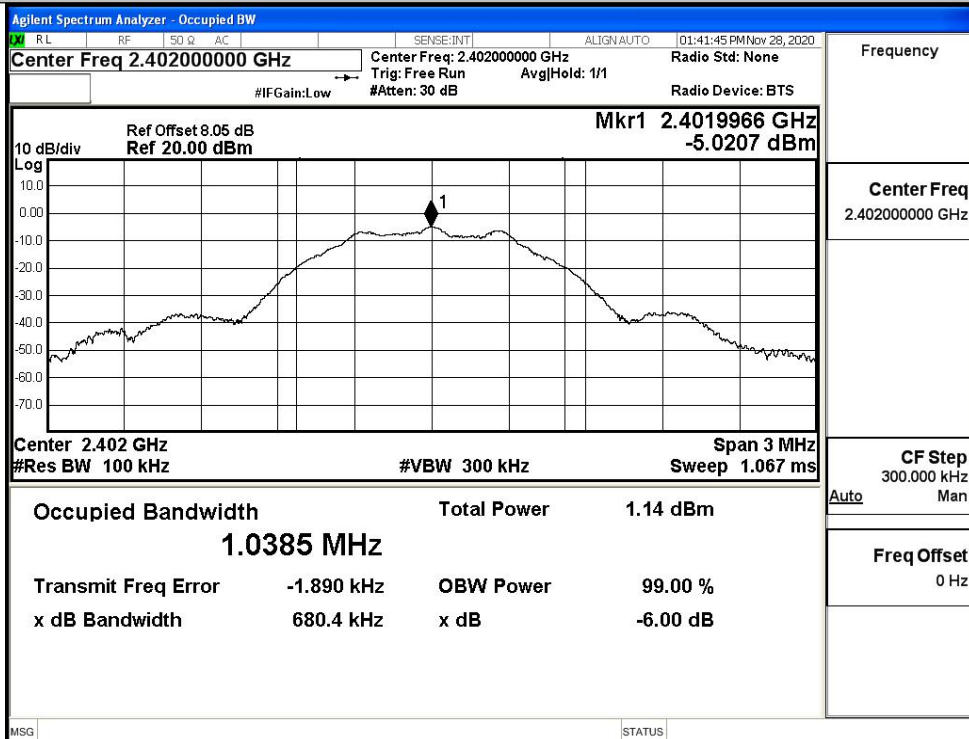


B.4 6dB Bandwidth

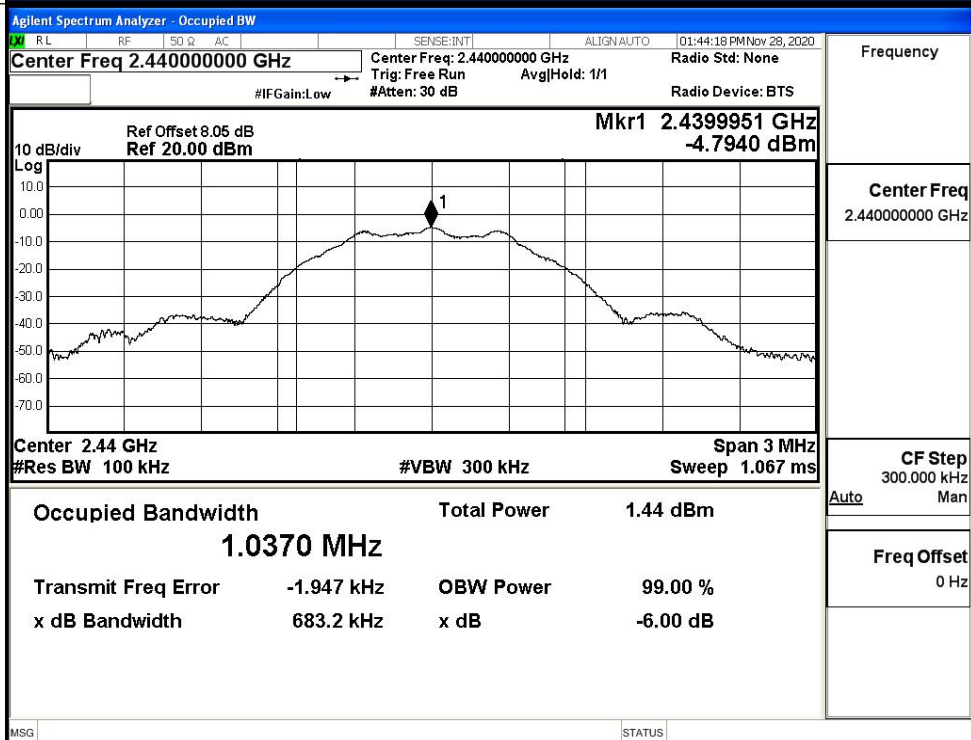
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6804	≥ 0.5	PASS
BT LE	MCH	0.6832	≥ 0.5	PASS
BT LE	HCH	0.6813	≥ 0.5	PASS

Test Graphs

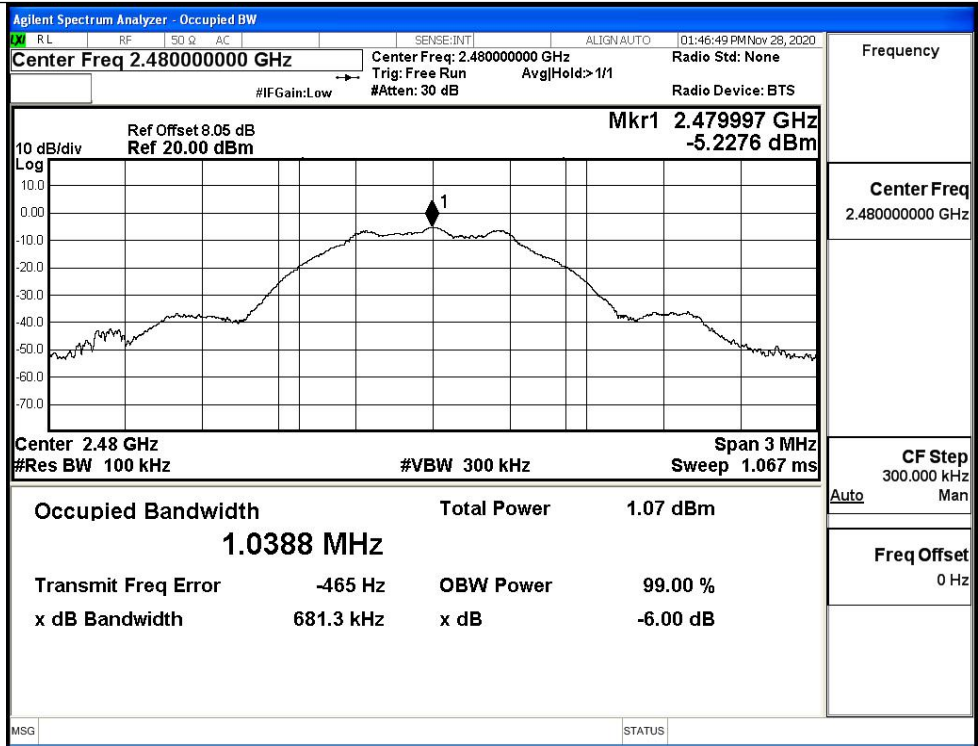
LCH



MCH



HCH

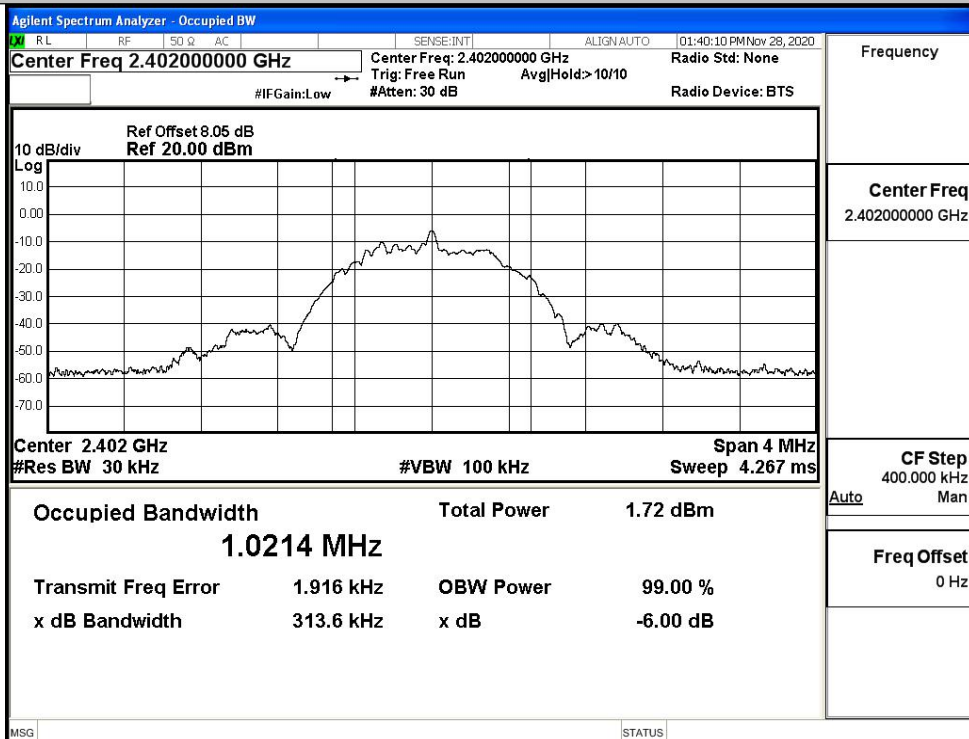


B.5 Occupied Bandwidth

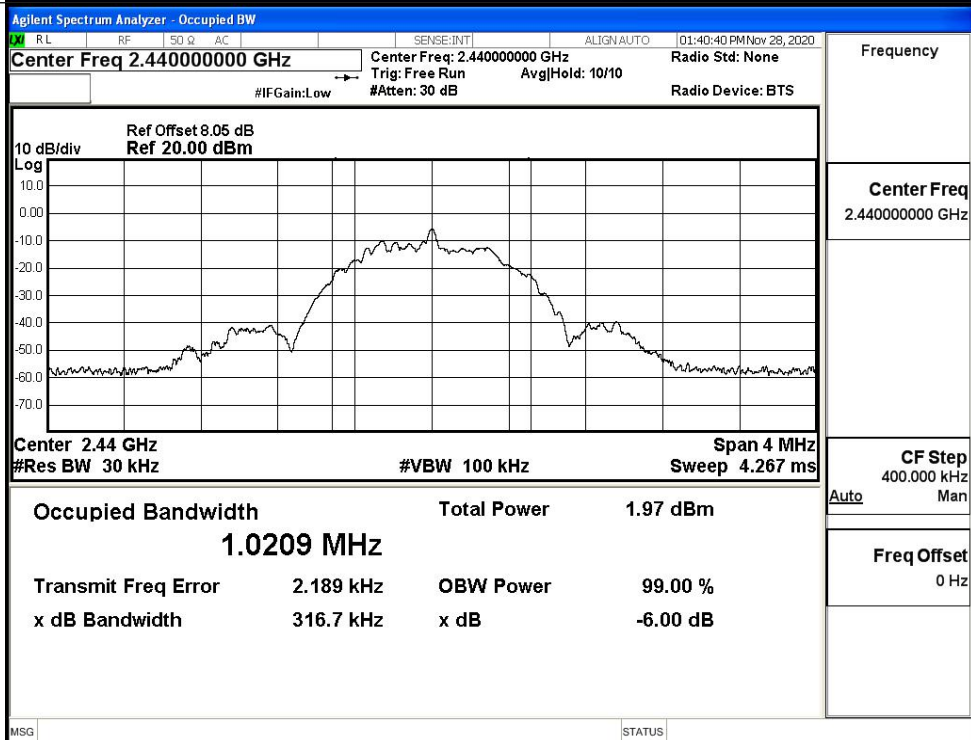
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0214	≥ 0.5	PASS
BT LE	MCH	1.0209	≥ 0.5	PASS
BT LE	HCH	1.0233	≥ 0.5	PASS

Test Graphs

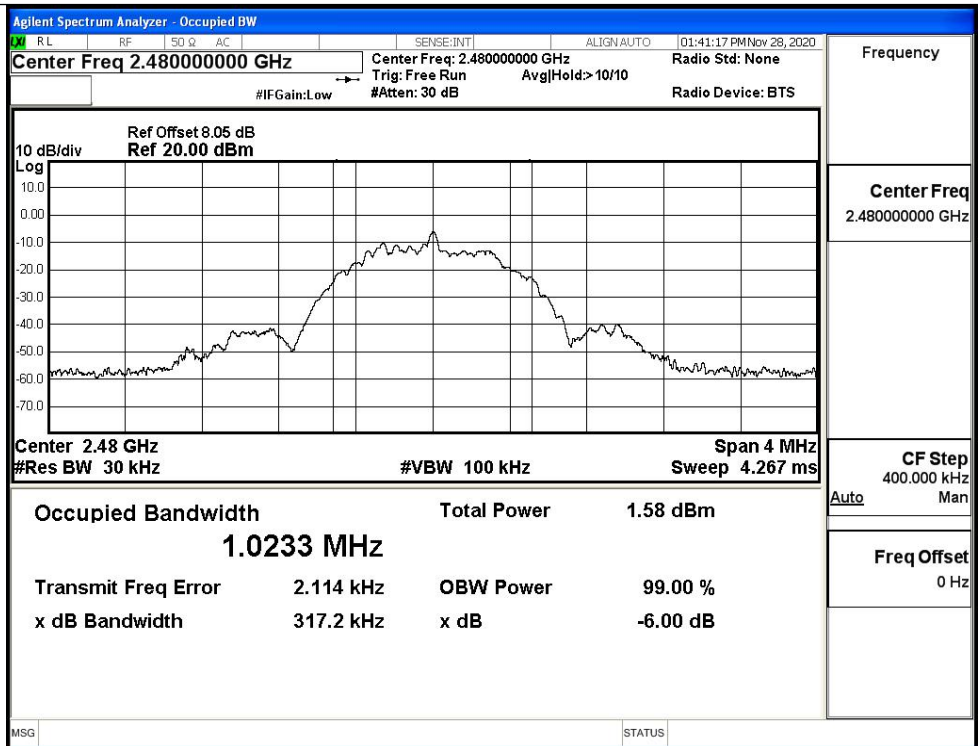
LCH



MCH



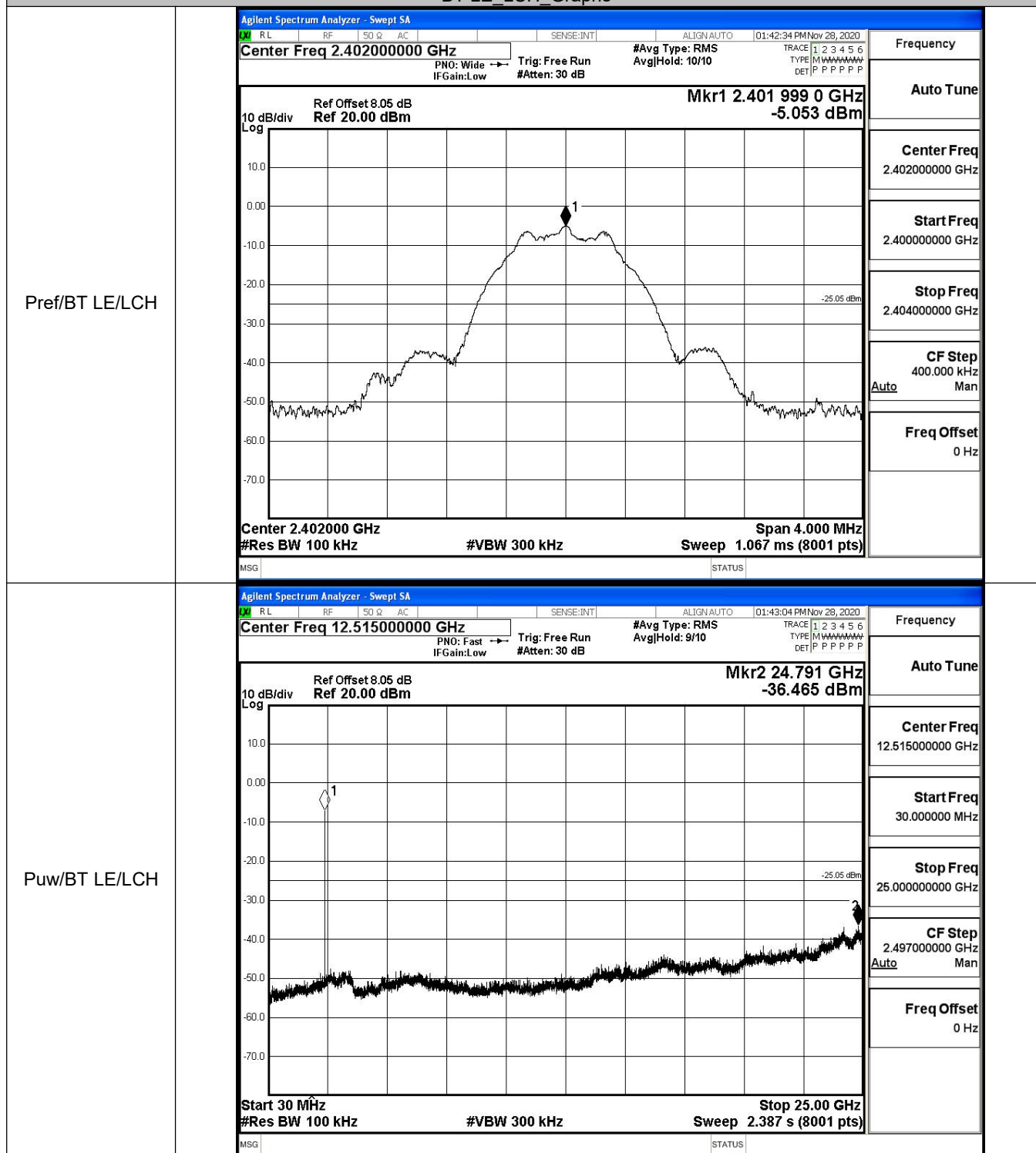
HCH



B.6 RF Conducted Spurious Emissions

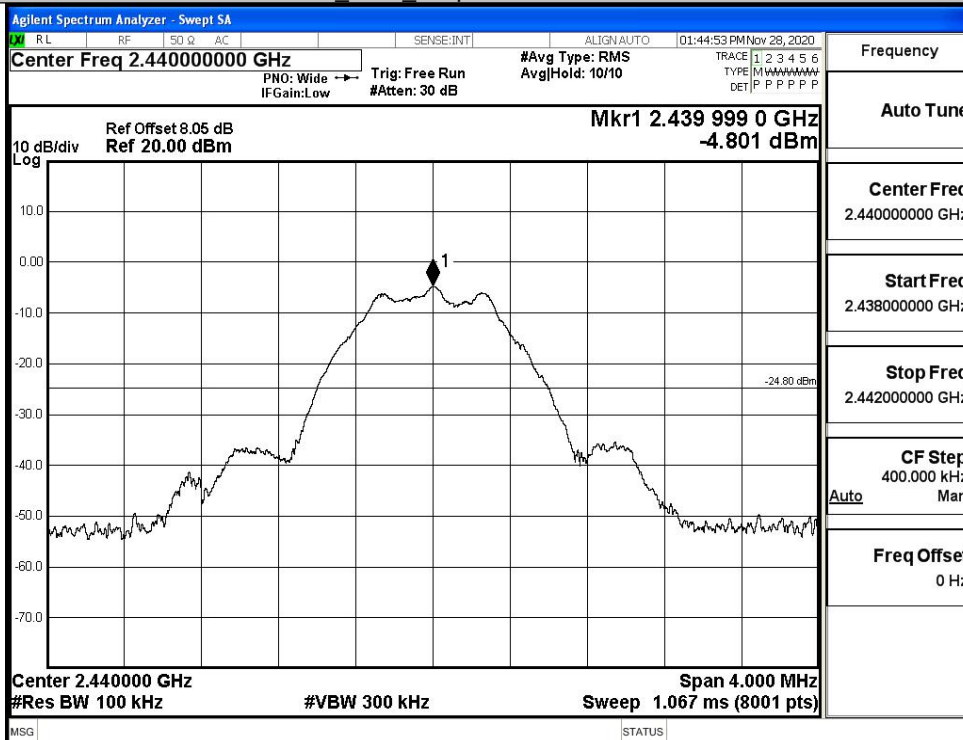
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.053	-36.465	-25.053	PASS
BT LE	MCH	-4.801	-36.809	-24.801	PASS
BT LE	HCH	-5.209	-36.288	-25.209	PASS

BT LE_LCH_Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

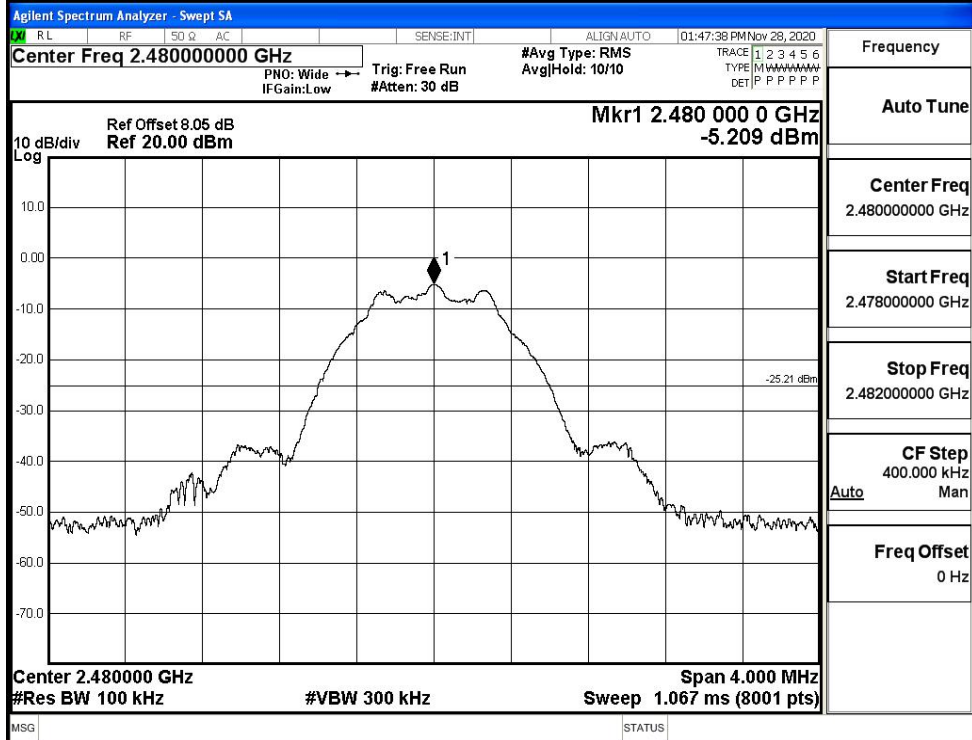


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

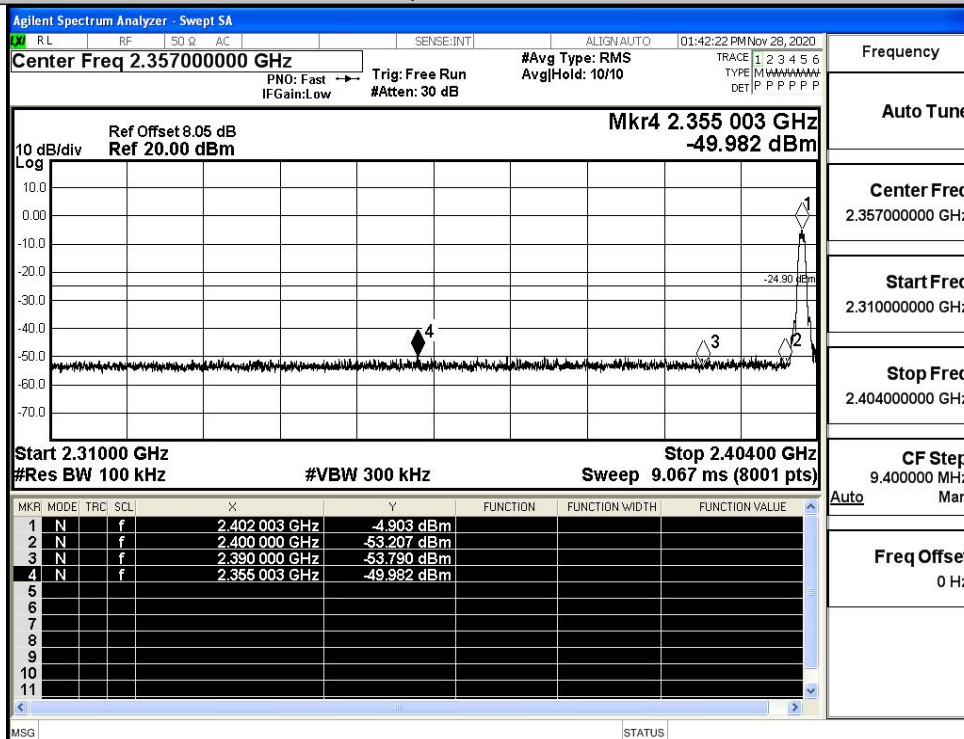


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.903	-49.982	-24.9	PASS
BT LE	HCH	-5.242	-49.331	-25.24	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

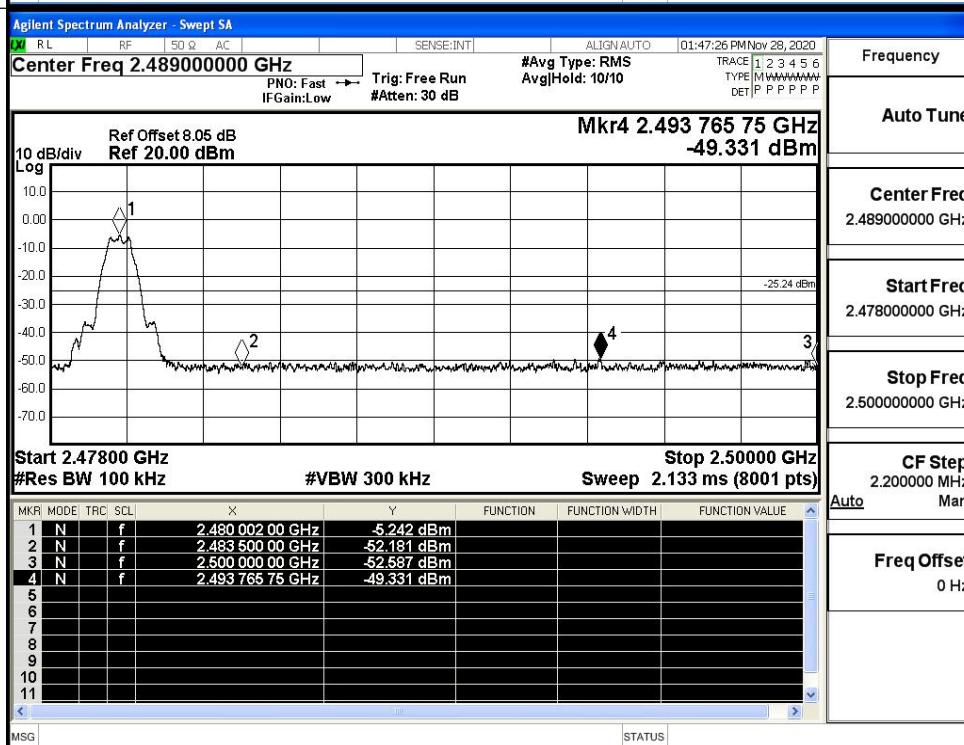
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

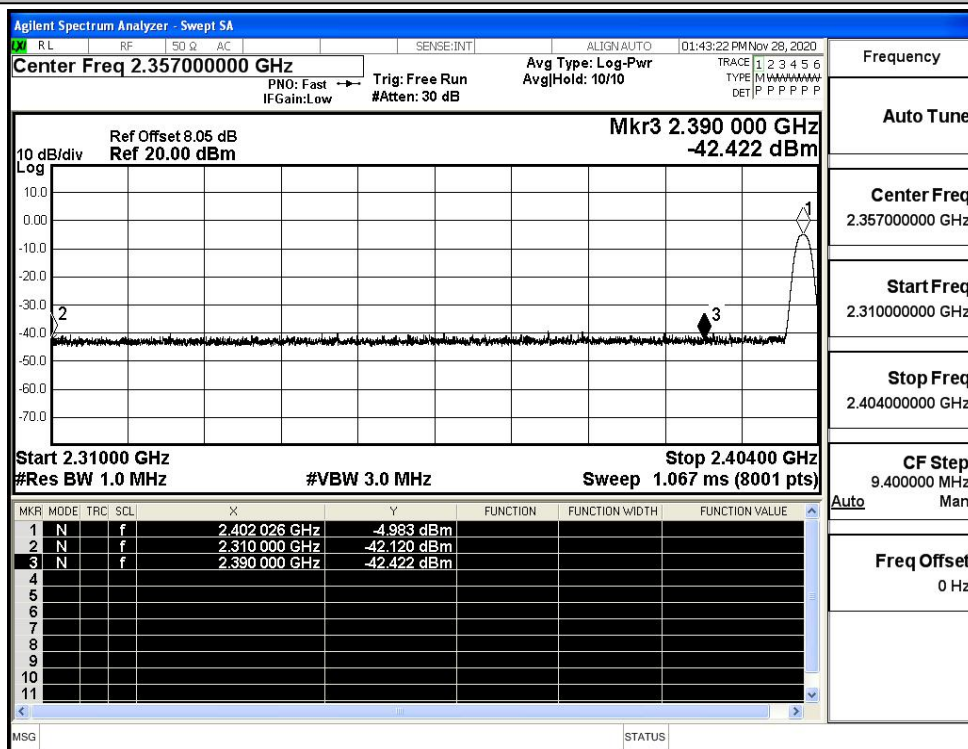
Freq Offset

0 Hz

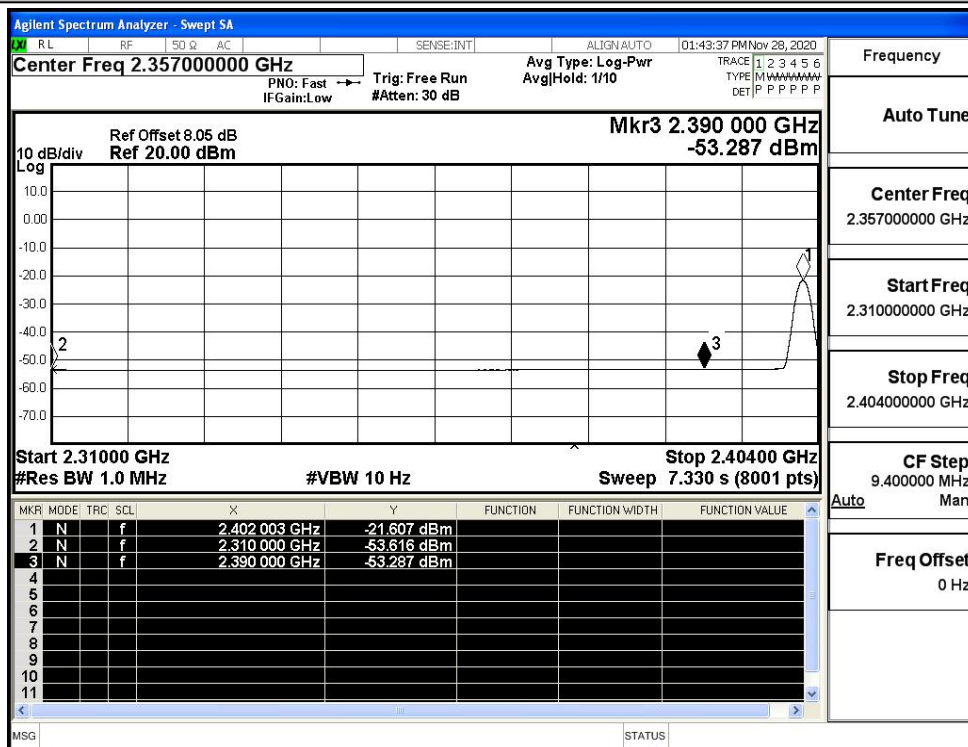
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.12	2.0	0	53.14	PEAK	74	PASS
		Ant1	2310.0	-53.62	2.0	0	41.64	AV	54	PASS
		Ant1	2390.0	-42.42	2.0	0	52.84	PEAK	74	PASS
		Ant1	2390.0	-53.29	2.0	0	41.97	AV	54	PASS
	2480	Ant1	2483.5	-41.34	2.0	0	53.92	PEAK	74	PASS
		Ant1	2483.5	-52.80	2.0	0	42.45	AV	54	PASS
		Ant1	2500.0	-41.43	2.0	0	53.83	PEAK	74	PASS
		Ant1	2500.0	-52.63	2.0	0	42.63	AV	54	PASS

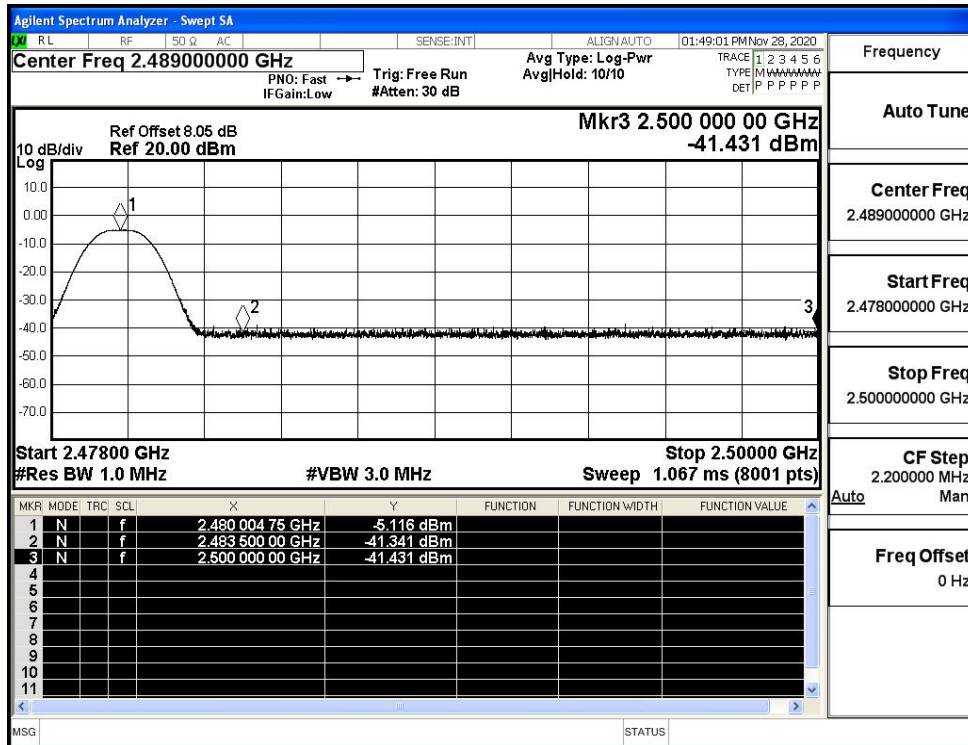
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

