

Appendix A

RF Test Data for BT V5.0(BT LE) (Conducted Measurement)

Product Name: WYZE Sense Hub

Trade Mark: WYZE

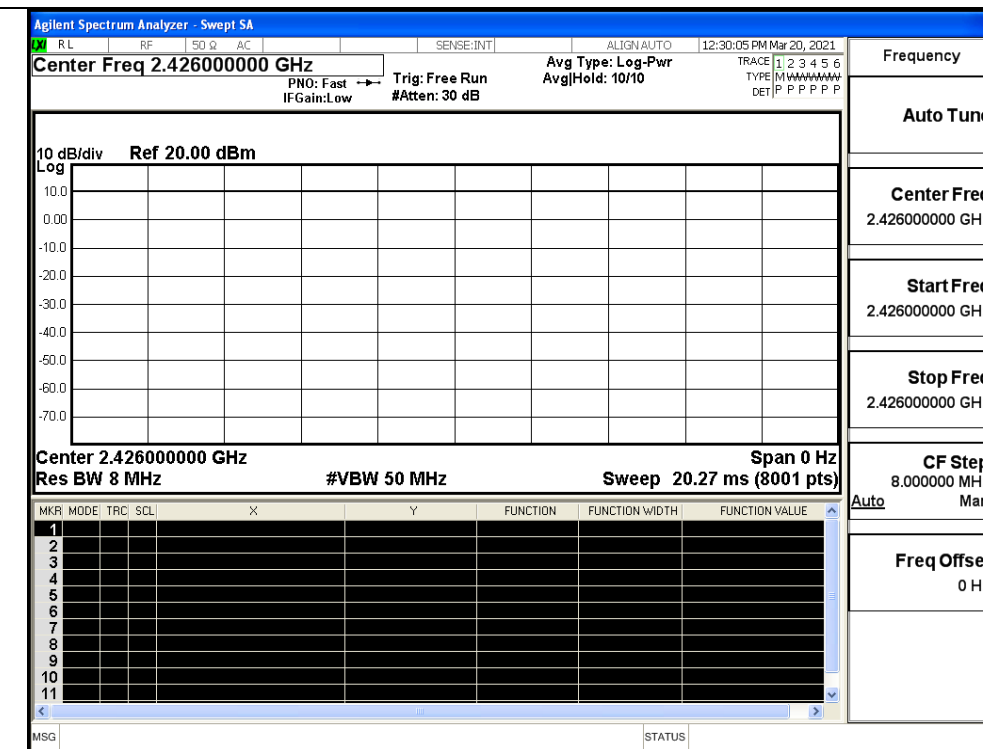
Test Model: WSHB1

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Duty Cycle

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

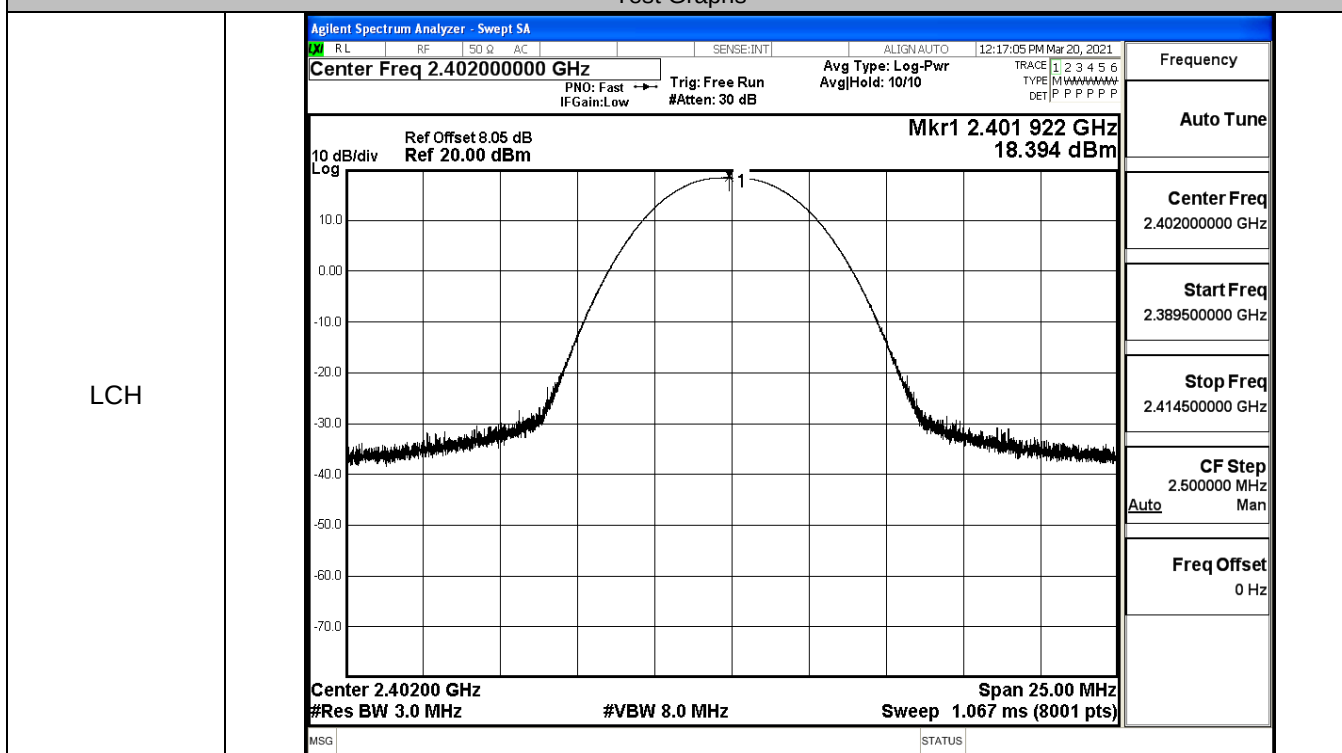


A.2 Maximum Conducted Peak Output Power and e.i.r.p.

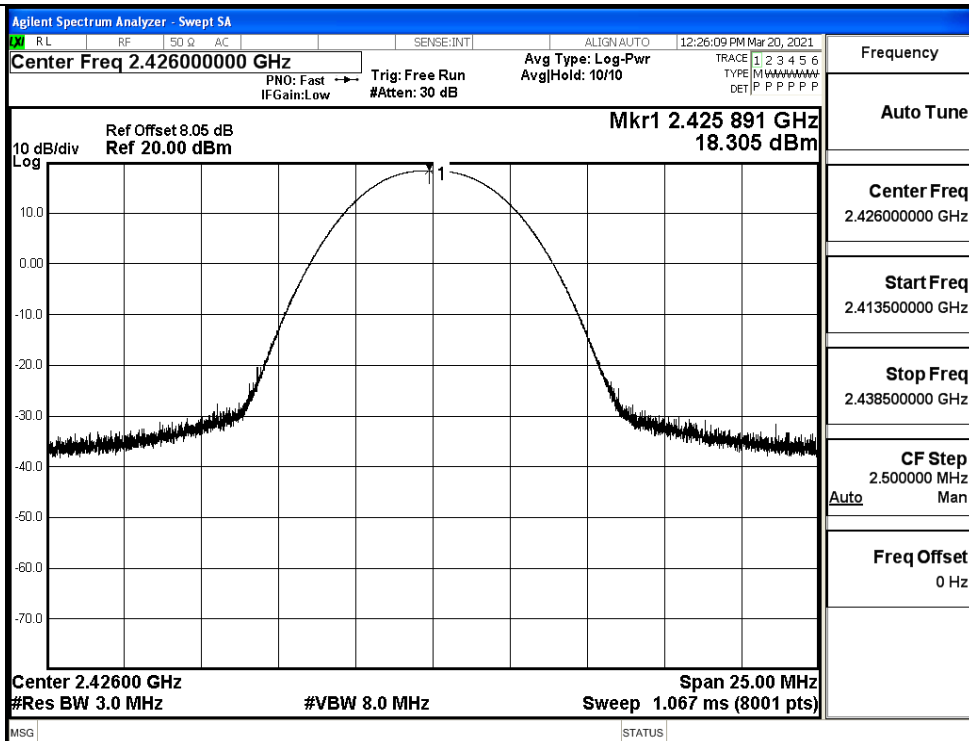
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	18.394	30	PASS
BT LE	MCH	18.305	30	PASS
BT LE	HCH	18.027	30	PASS

Mode	Channel	Conduct Peak Power[dBm]	Gain [dBi]	e.i.r.p. [dBm]	Limit [dBm]	Verdict
BT LE	LCH	18.394	1.3	19.69	36	PASS
BT LE	MCH	18.305	1.3	19.61	36	PASS
BT LE	HCH	18.027	1.3	19.33	36	PASS

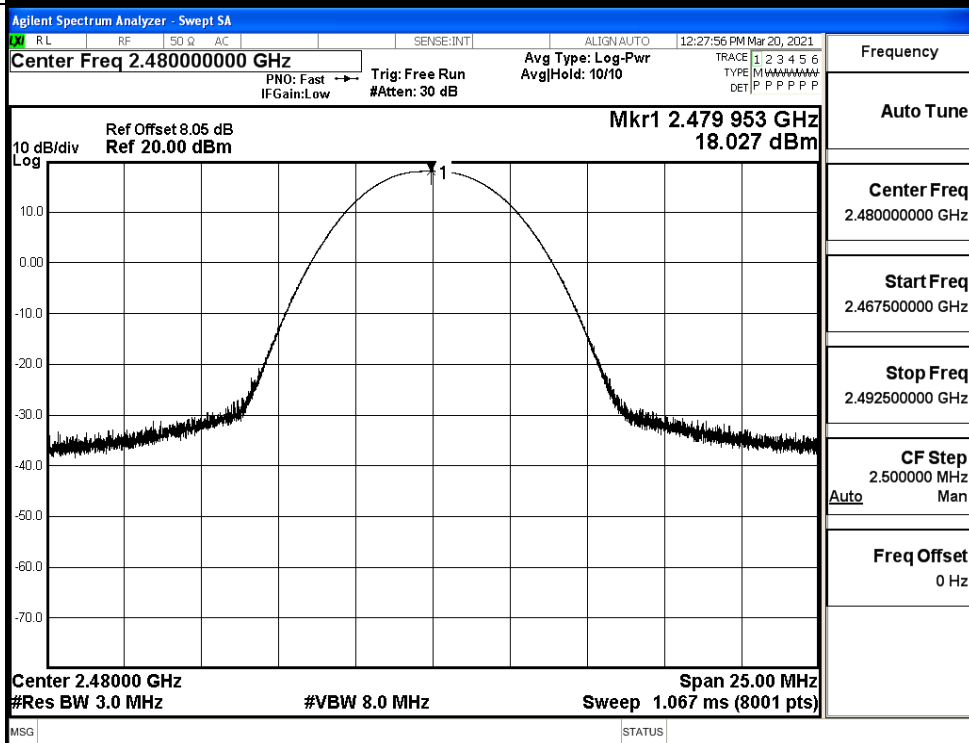
Test Graphs



MCH



HCH

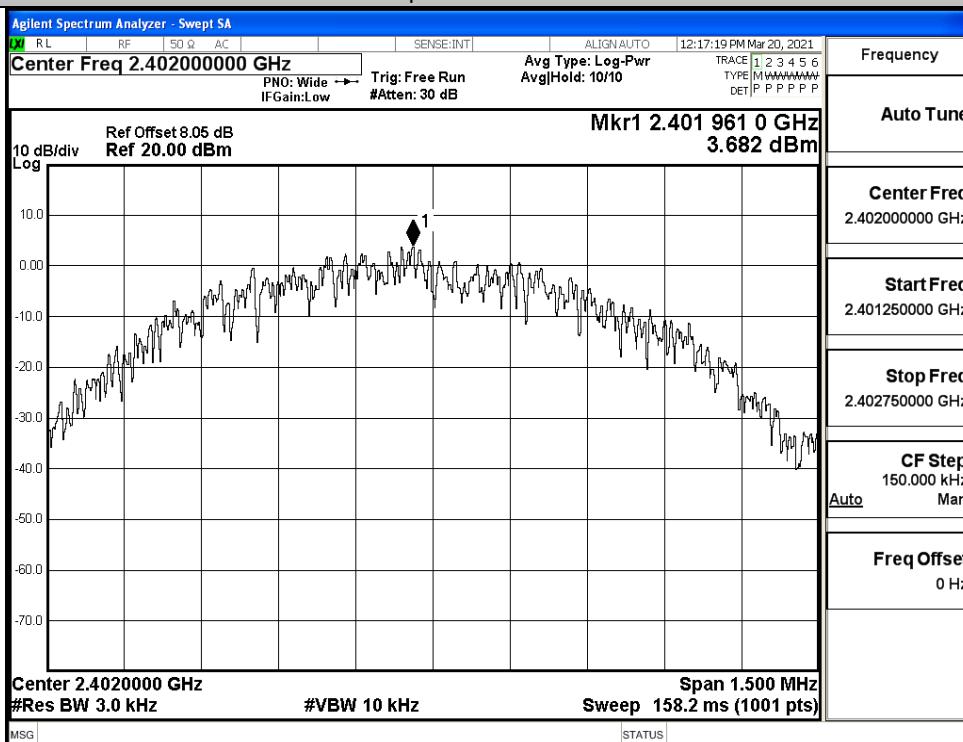


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	3.682	8	PASS
BT LE	MCH	3.549	8	PASS
BT LE	HCH	3.345	8	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.401250000 GHz

Stop Freq

2.402750000 GHz

CF Step

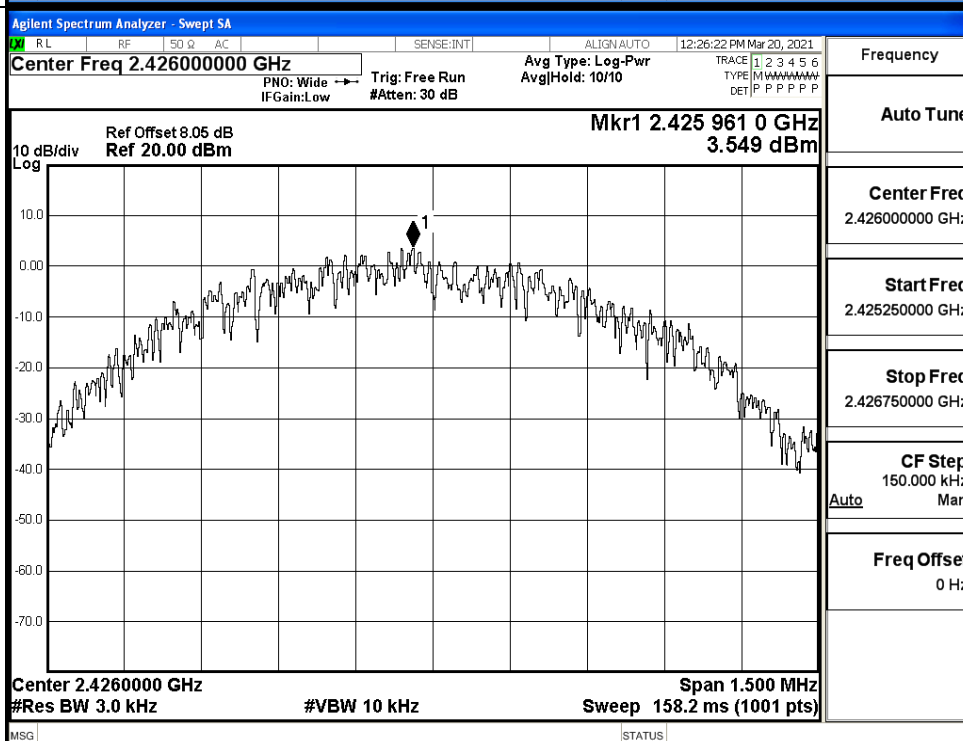
150.000 kHz

Auto Man

Freq Offset

0 Hz

MCH



Frequency

Auto Tune

Center Freq

2.426000000 GHz

Start Freq

2.425250000 GHz

Stop Freq

2.426750000 GHz

CF Step

150.000 kHz

Auto Man

Freq Offset

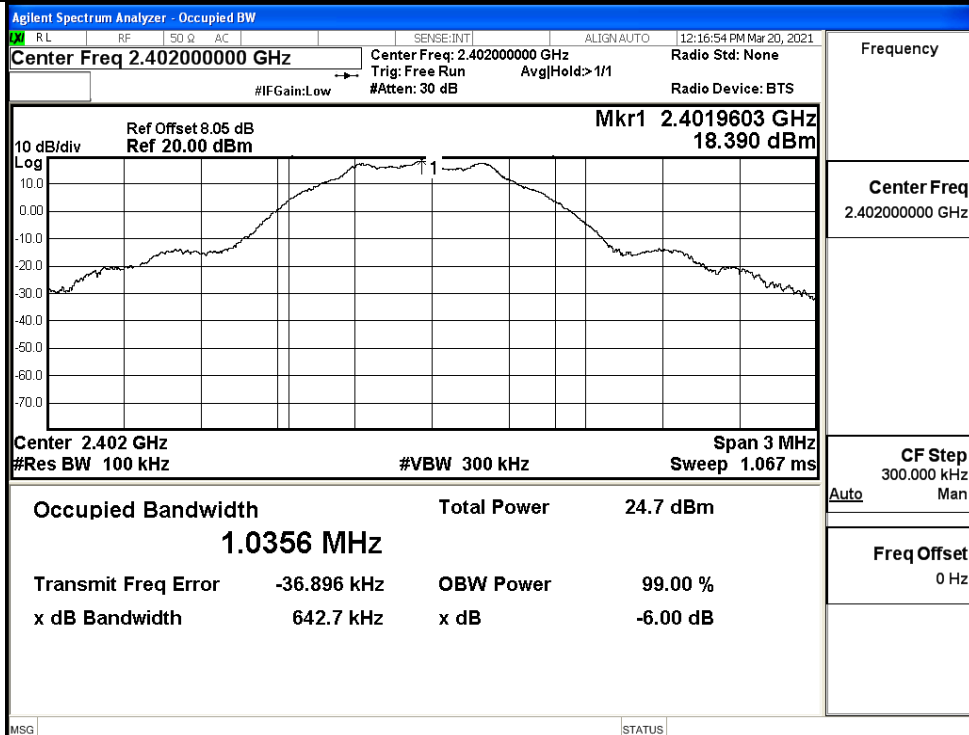
0 Hz

B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6427	≥ 0.5	PASS
BT LE	MCH	0.6397	≥ 0.5	PASS
BT LE	HCH	0.6398	≥ 0.5	PASS

Test Graphs

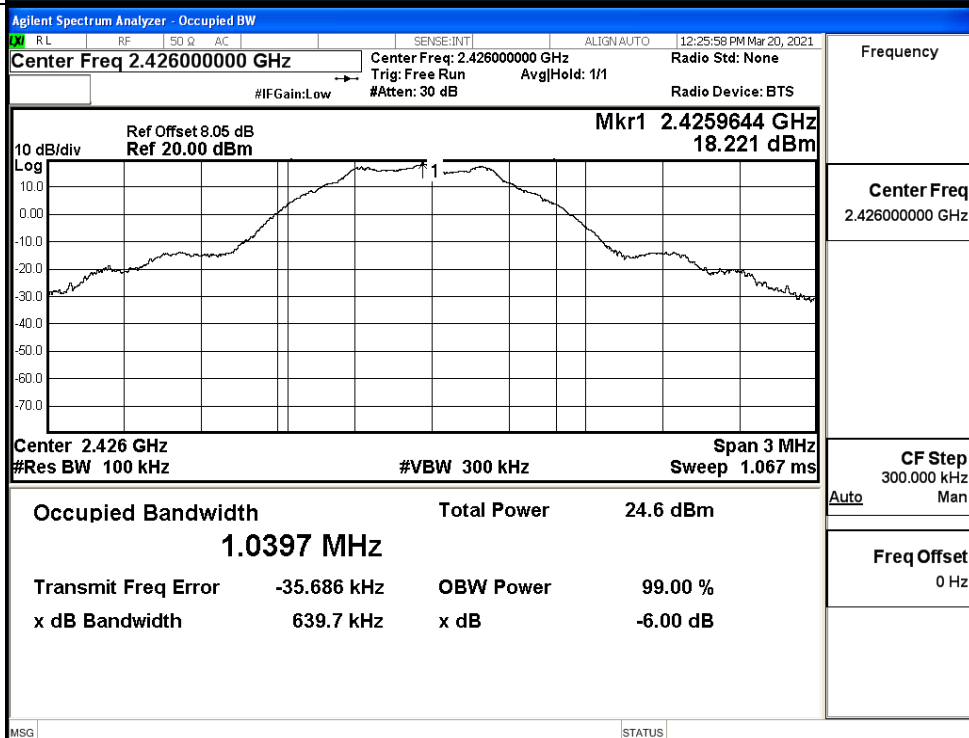
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

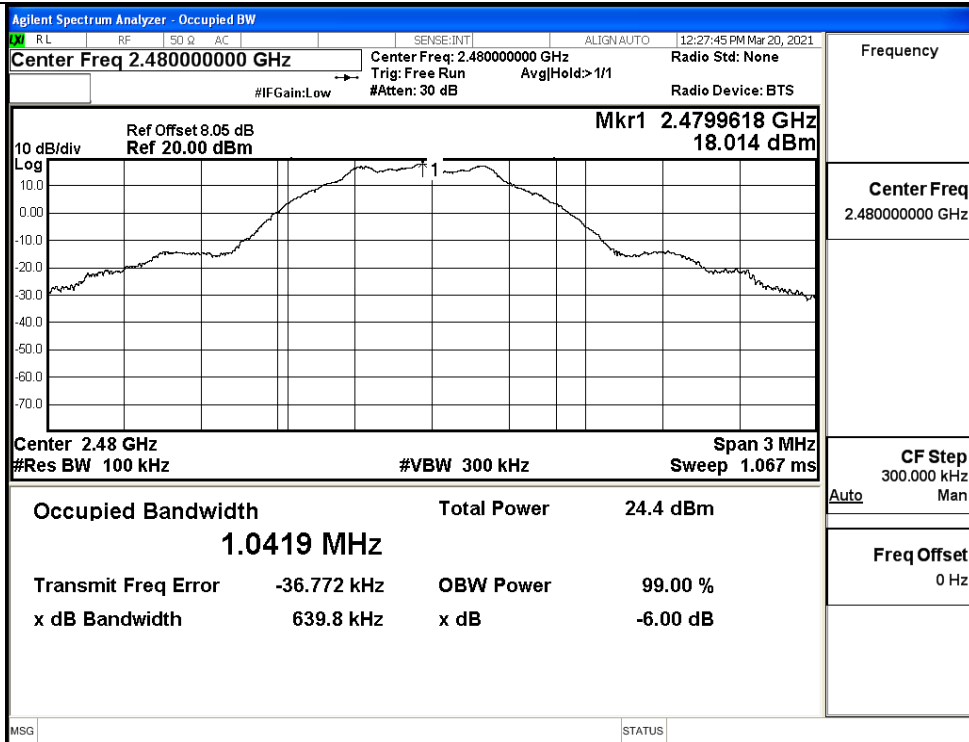
MCH



Frequency

Center Freq
2.426000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

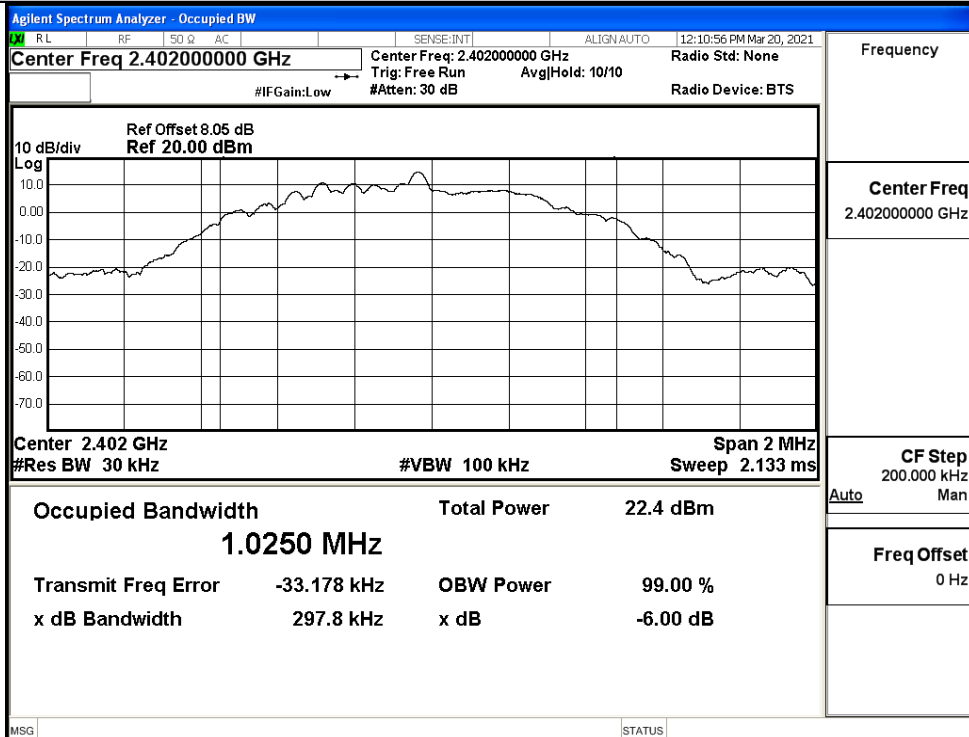


B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0250	No Limit	PASS
BT LE	MCH	1.0251	No Limit	PASS
BT LE	HCH	1.0244	No Limit	PASS

Test Graphs

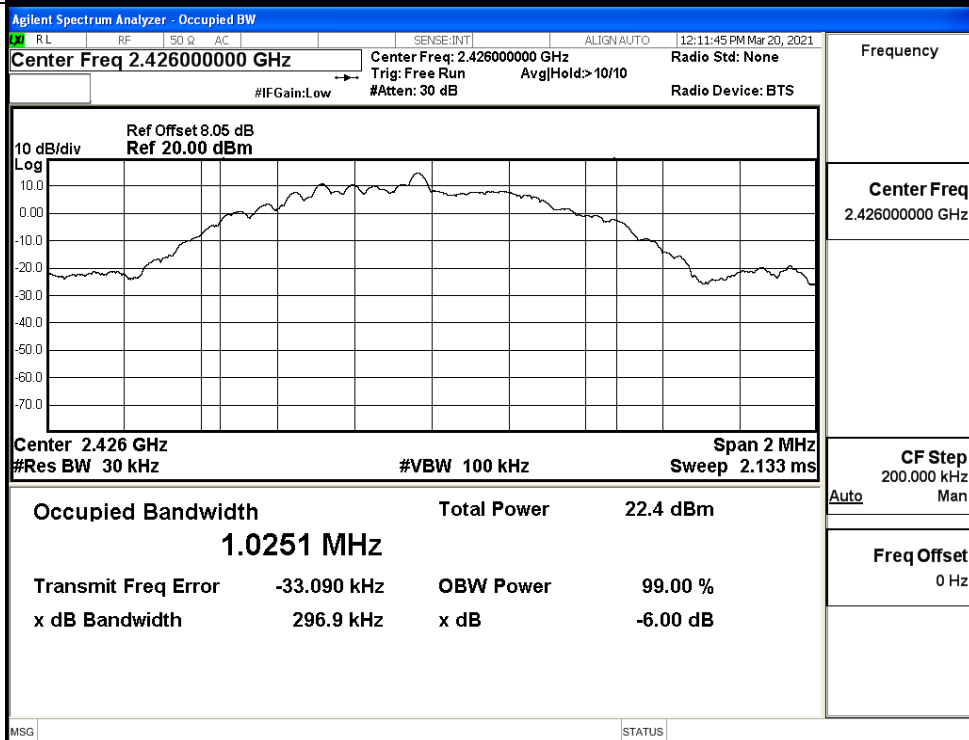
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
200.000 kHz
ManFreq Offset
0 Hz

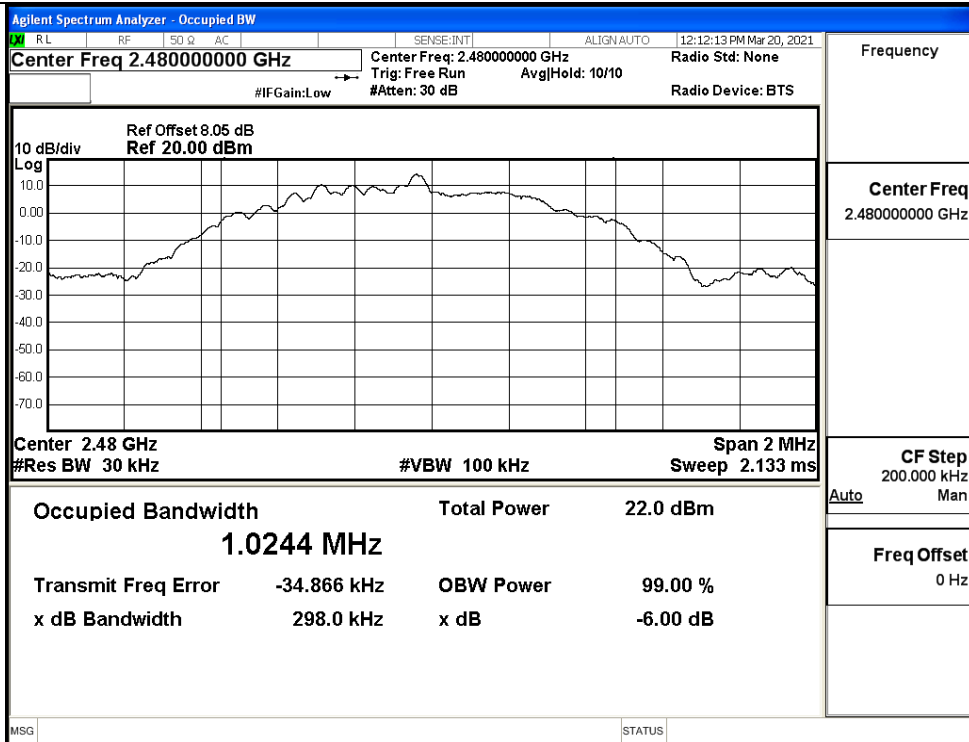
MCH



Frequency

Center Freq
2.426000000 GHzCF Step
200.000 kHz
ManFreq Offset
0 Hz

HCH

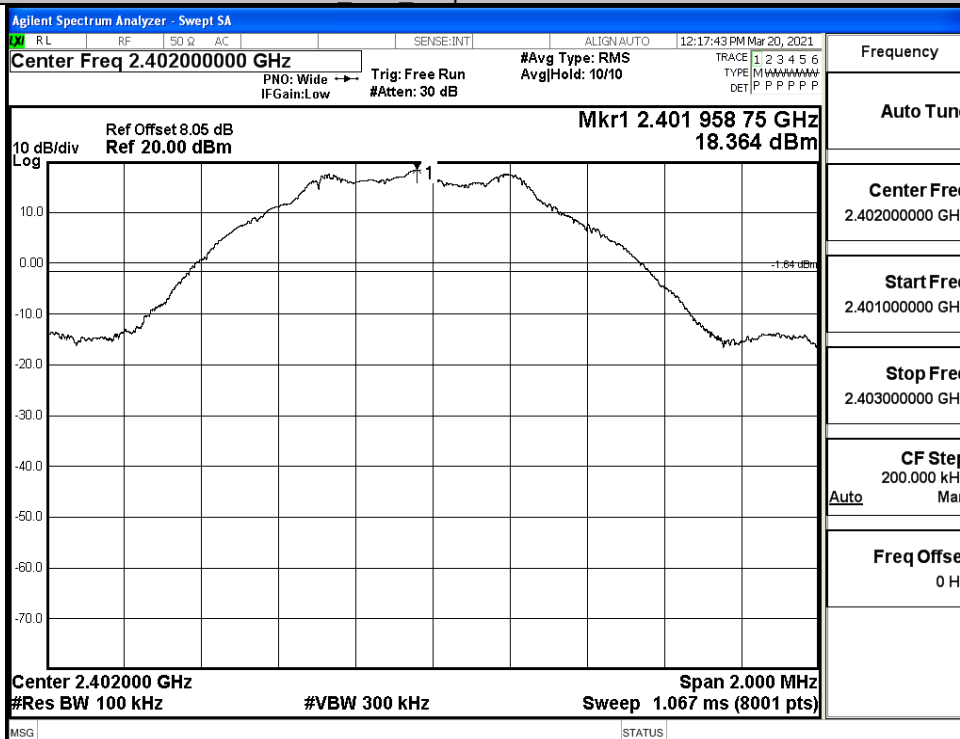


B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	18.364	-38.011	-1.636	PASS
BT LE	MCH	18.265	-37.121	-1.735	PASS
BT LE	HCH	17.968	-37.821	-2.032	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

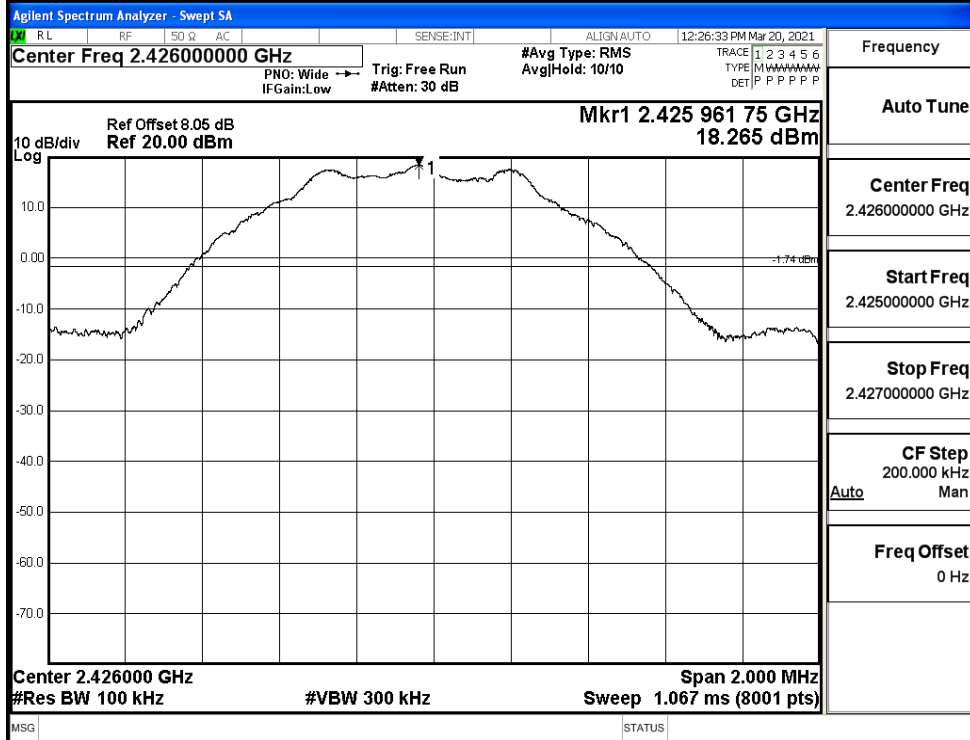


Puw/BT LE/LCH



BT LE MCH Graphs

Pref/BT LE/MCH

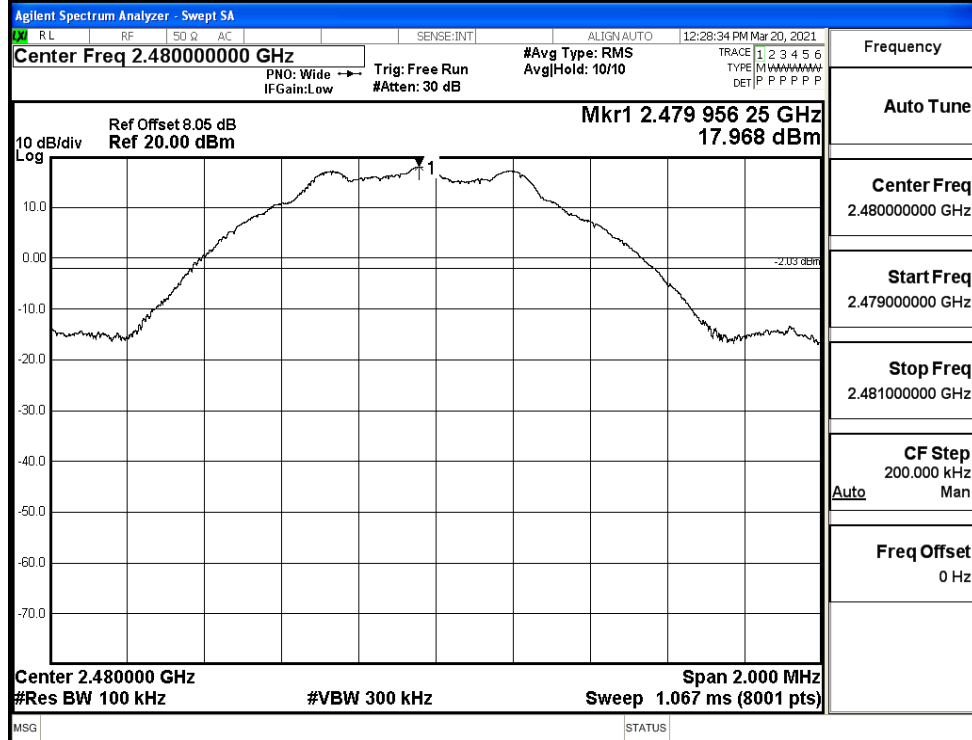


Puw/BT LE/MCH

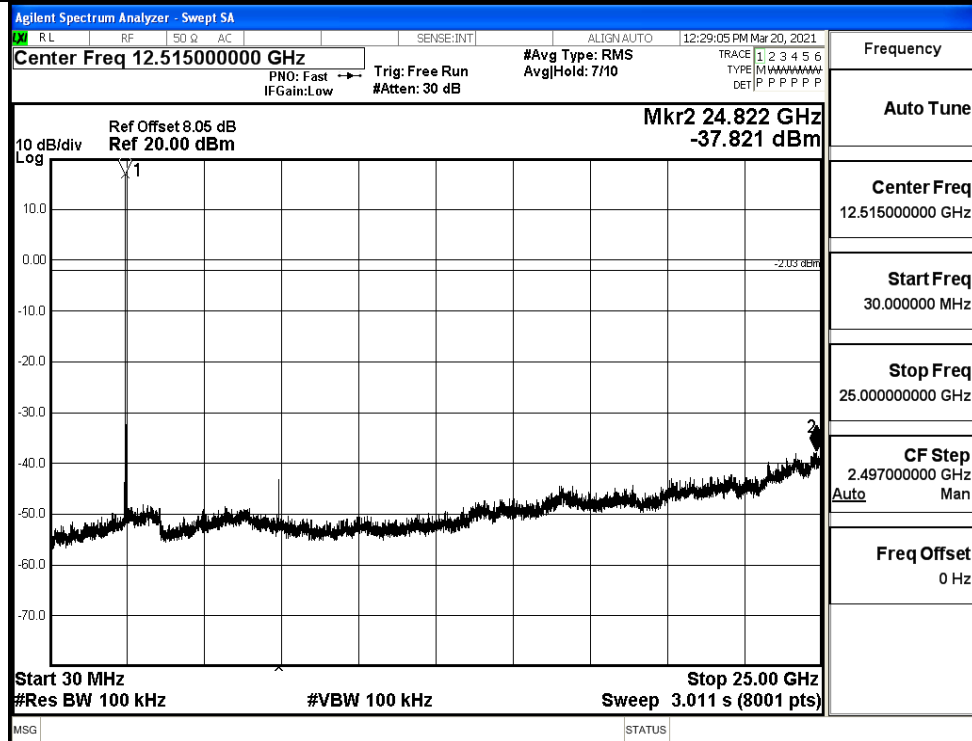


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

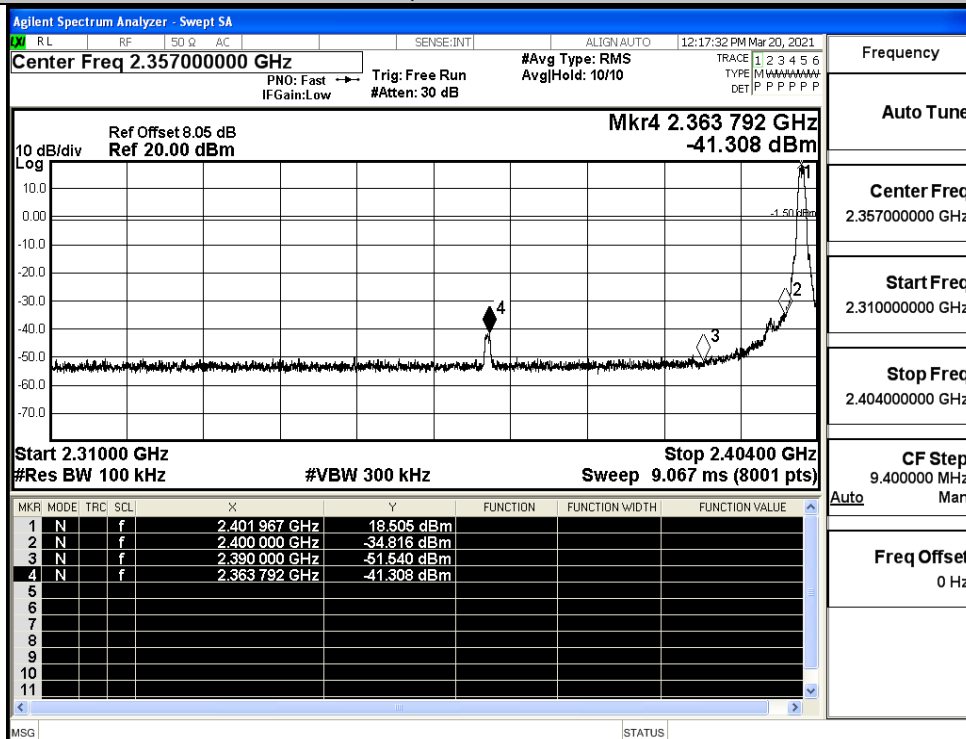


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	18.505	-41.308	-1.50	PASS
BT LE	HCH	18.155	-39.579	-1.85	PASS

Test Graphs

LCH

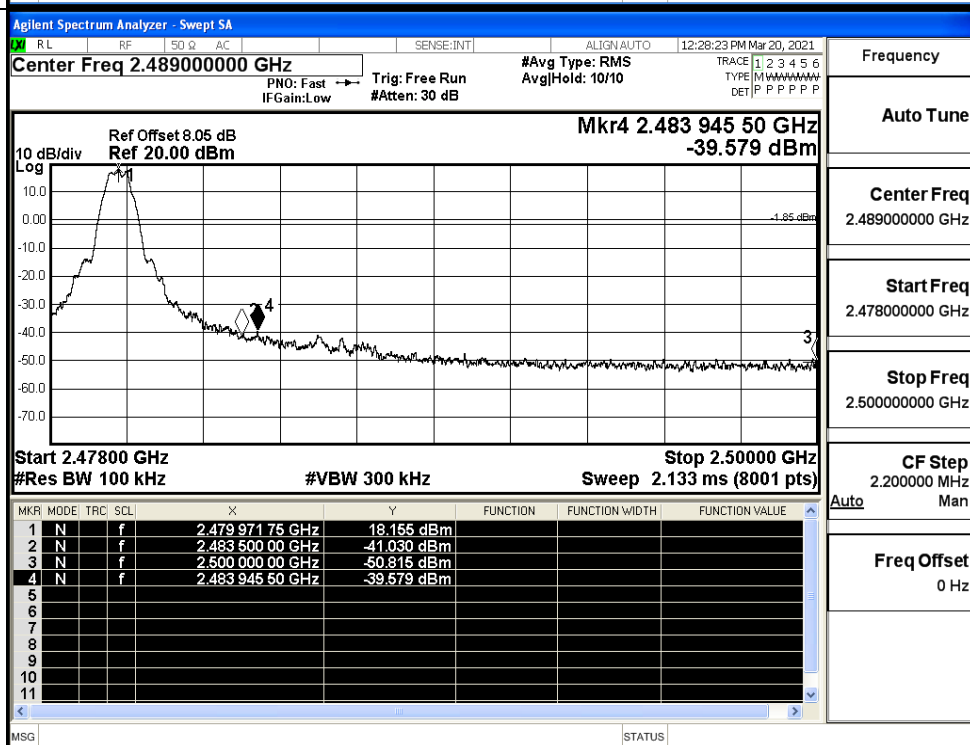


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

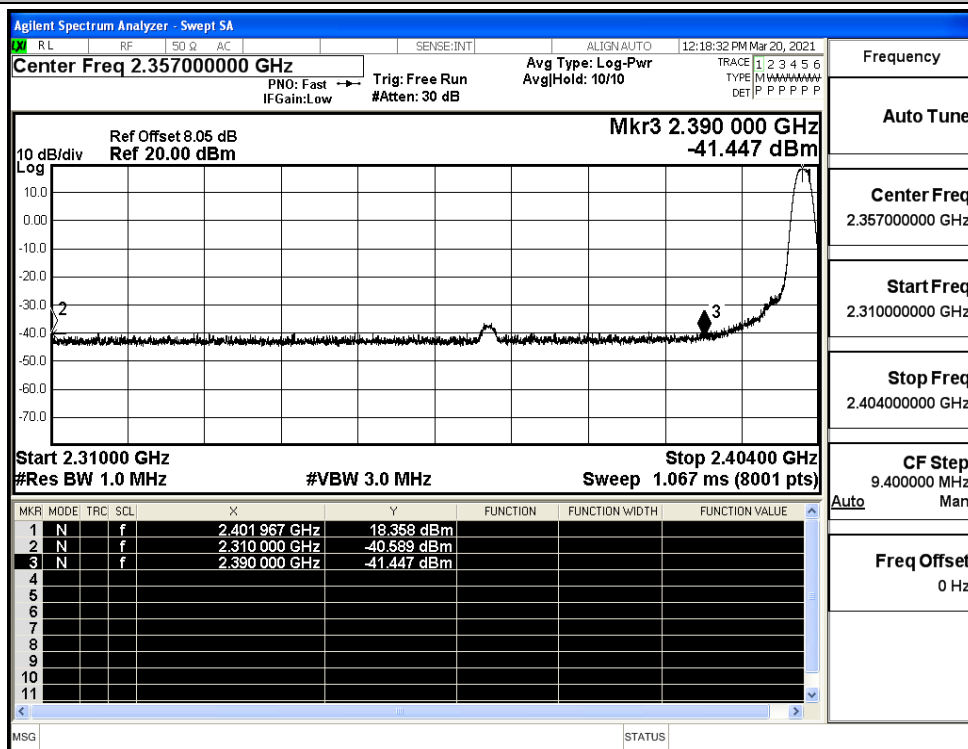
Auto Tune

Center Freq
2.489000000 GHzStart Freq
2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

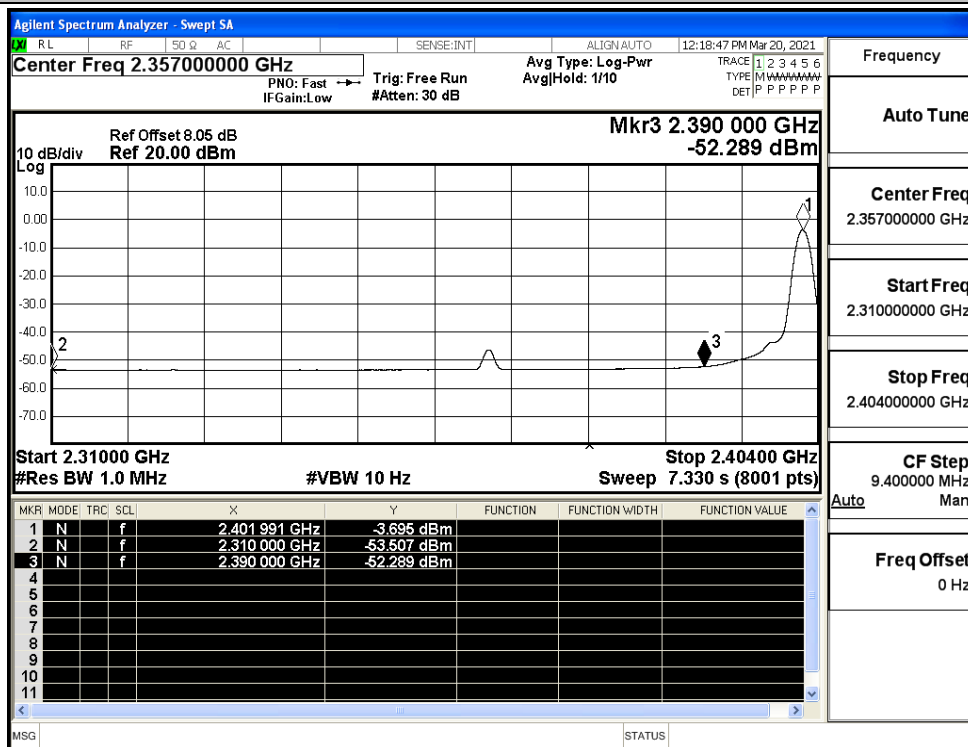
B.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-40.59	2.0	0	56.64	PEAK	74	PASS
		Ant1	2310.0	-53.51	2.0	0	43.72	AV	54	PASS
		Ant1	2390.0	-41.45	2.0	0	55.78	PEAK	74	PASS
		Ant1	2390.0	-52.29	2.0	0	44.94	AV	54	PASS
	2480	Ant1	2483.5	-30.54	2.0	0	66.69	PEAK	74	PASS
		Ant1	2483.5	-44.58	2.0	0	52.65	AV	54	PASS
		Ant1	2500.0	-41.84	2.0	0	55.39	PEAK	74	PASS
		Ant1	2500.0	-52.41	2.0	0	44.82	AV	54	PASS

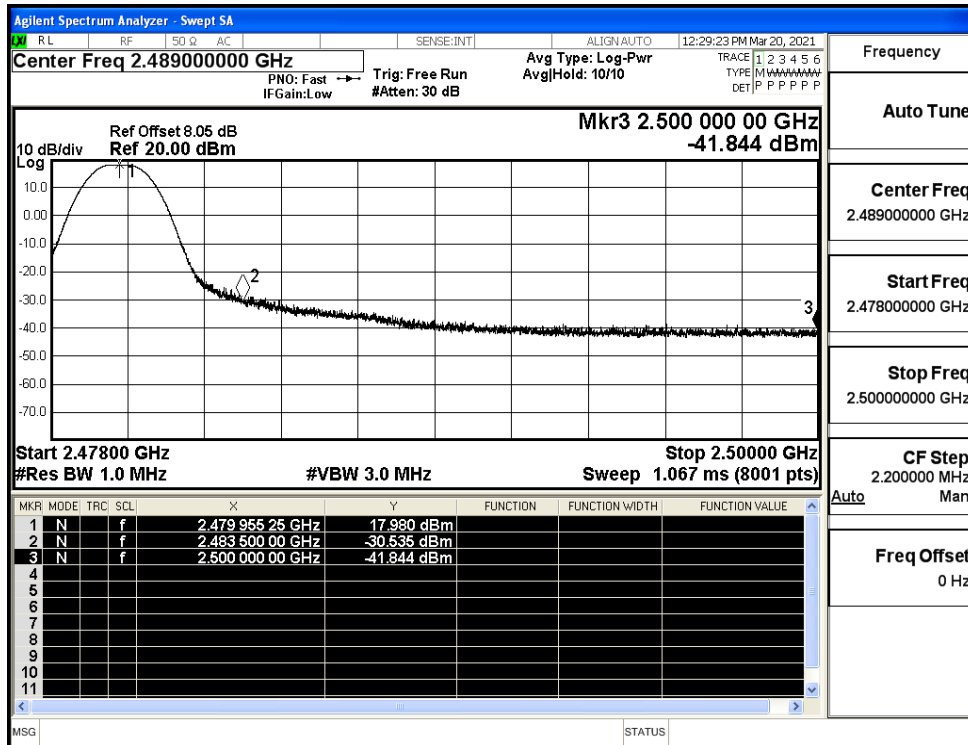
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

