

Appendix A

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

Product Name: Wingman Remote

Trade Mark: Bushnell Golf

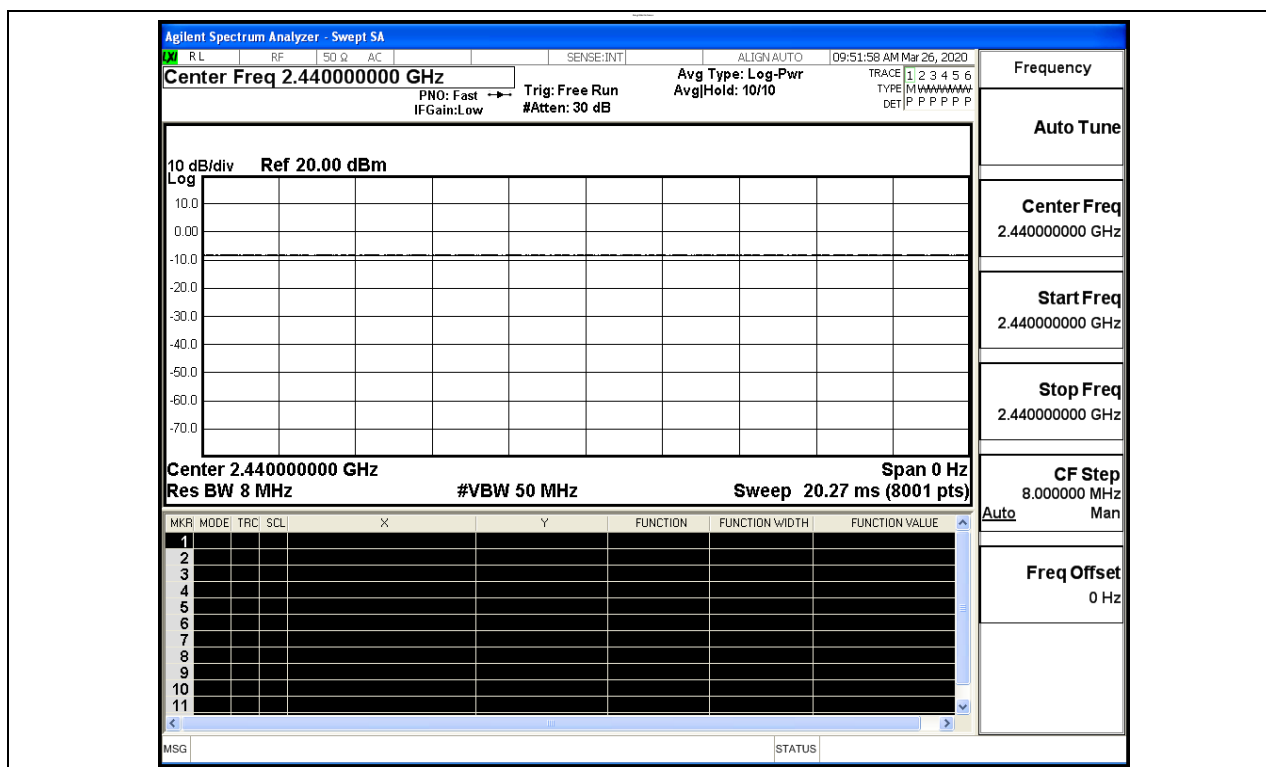
Test Model: 361915

Environmental Conditions

Temperature:	23.3 °C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Tom.Liu

A.1 Duty Cycle

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



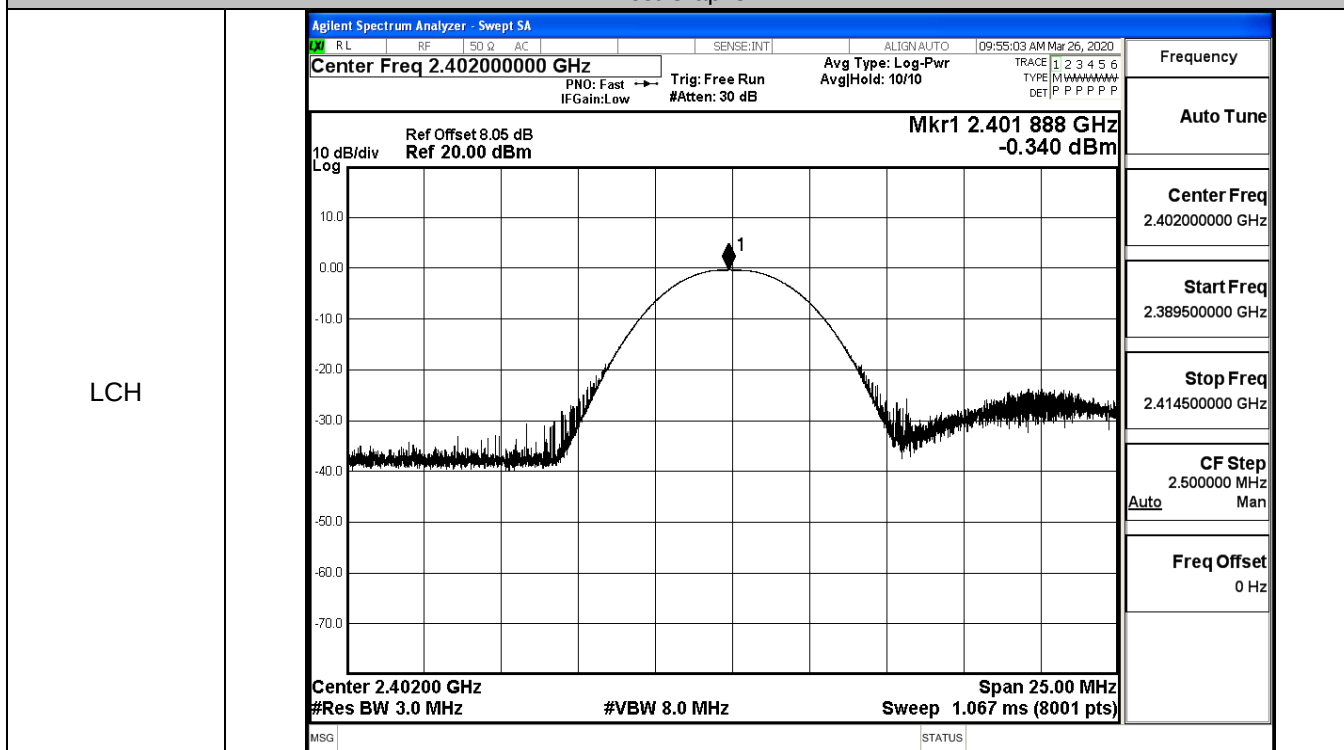
A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.34	30	PASS
BT LE	MCH	-0.264	30	PASS
BT LE	HCH	-0.586	30	PASS

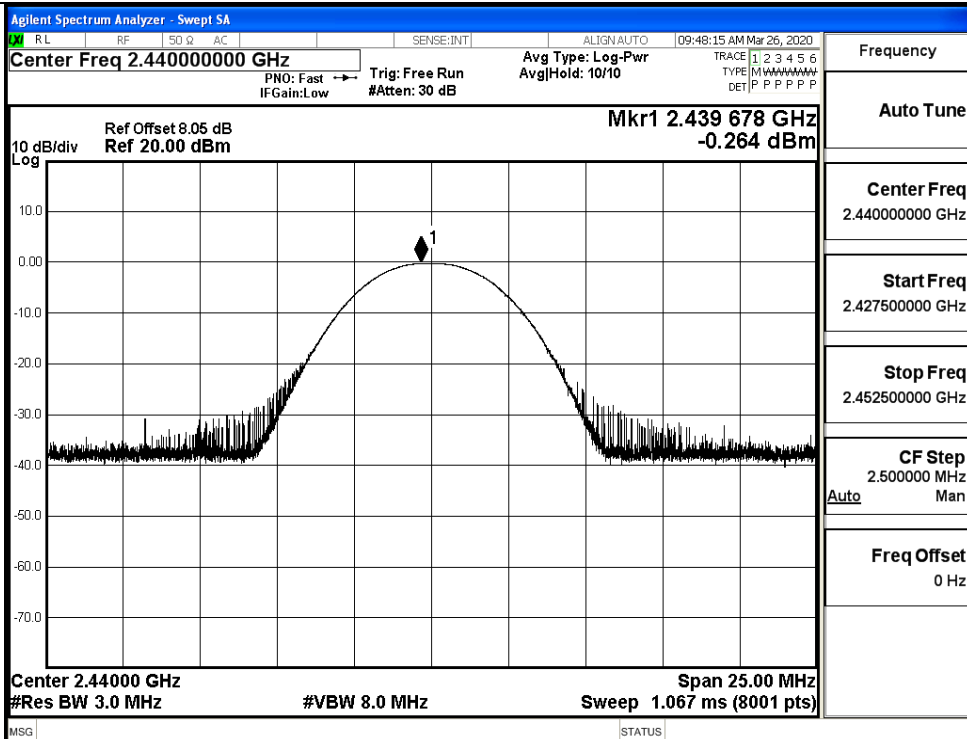
EIRP

Mode	Channel	Conduct Peak Power (dBm)	Antenna Gain (dBi) Max	EIRP (dBm)
BT LE	LCH	-0.34	0	-0.34
BT LE	MCH	-0.264	0	-0.264
BT LE	HCH	-0.586	0	-0.586

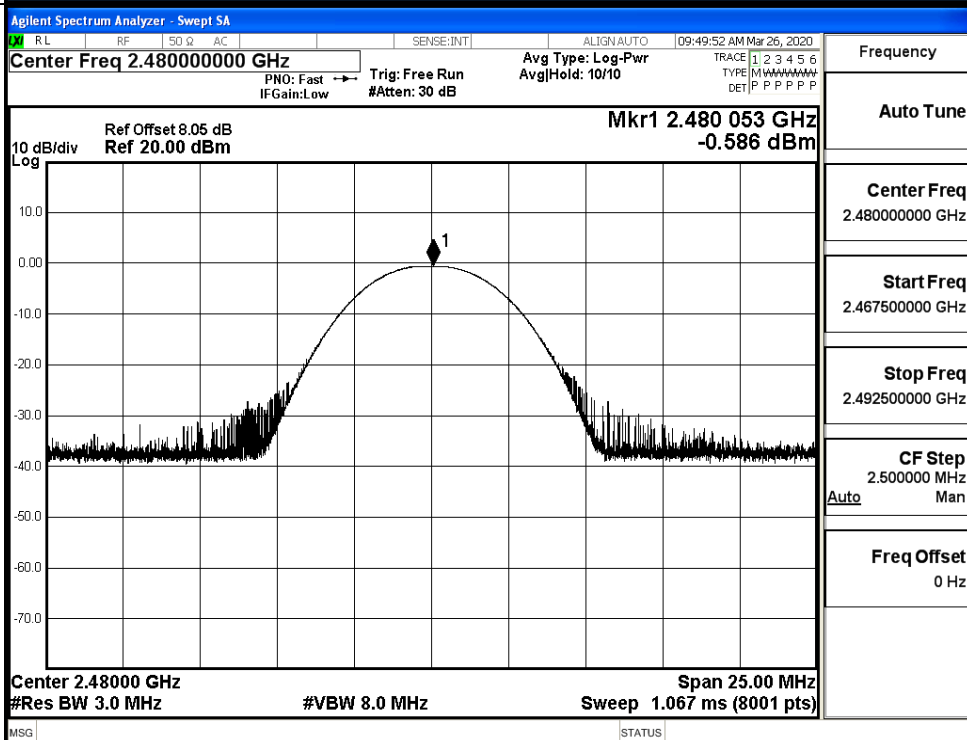
Test Graphs



MCH



HCH

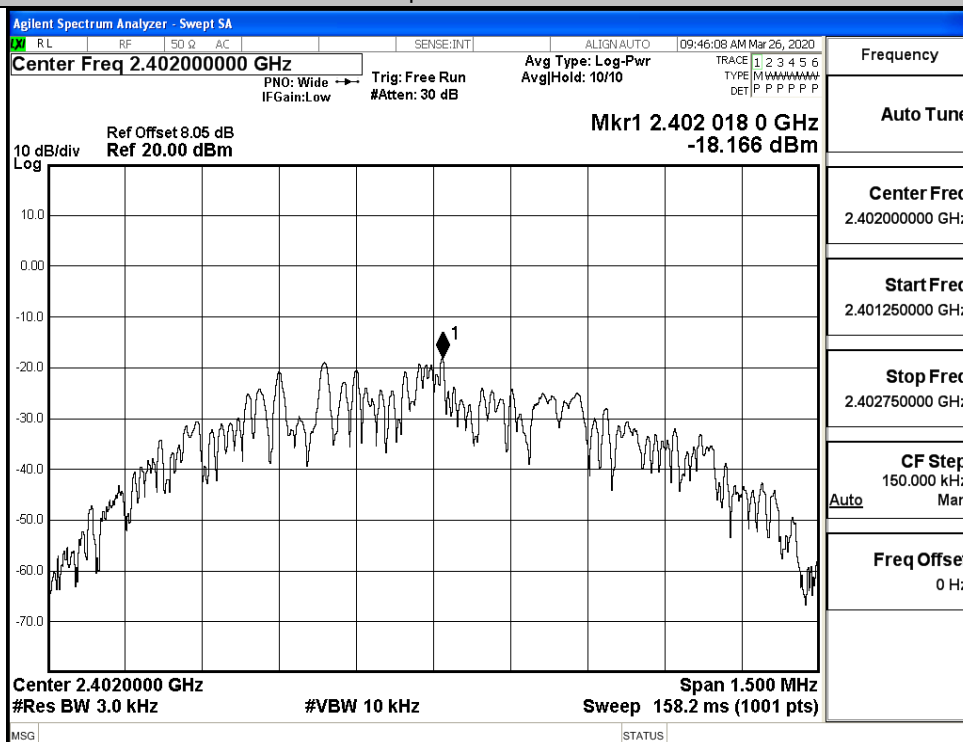


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.166	8	PASS
BT LE	MCH	-18.151	8	PASS
BT LE	HCH	-18.669	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

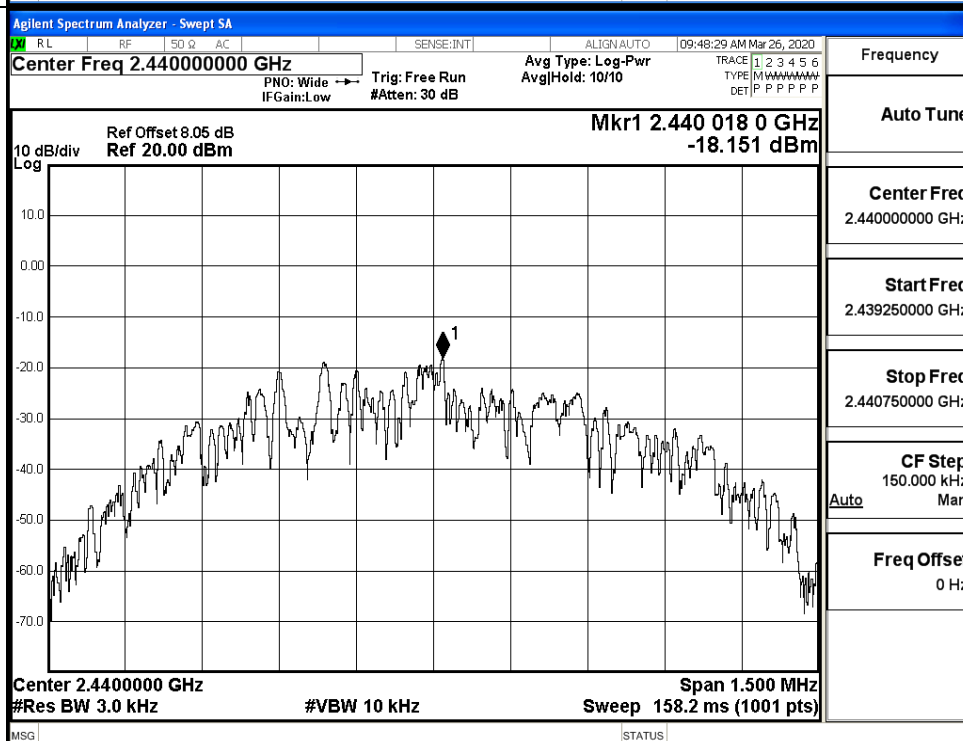
150.000 kHz

Auto

Freq Offset

0 Hz

MCH



Frequency

Auto Tune

Center Freq

2.440000000 GHz

Start Freq

2.439250000 GHz

Stop Freq

2.440750000 GHz

CF Step

150.000 kHz

Auto

Freq Offset

0 Hz

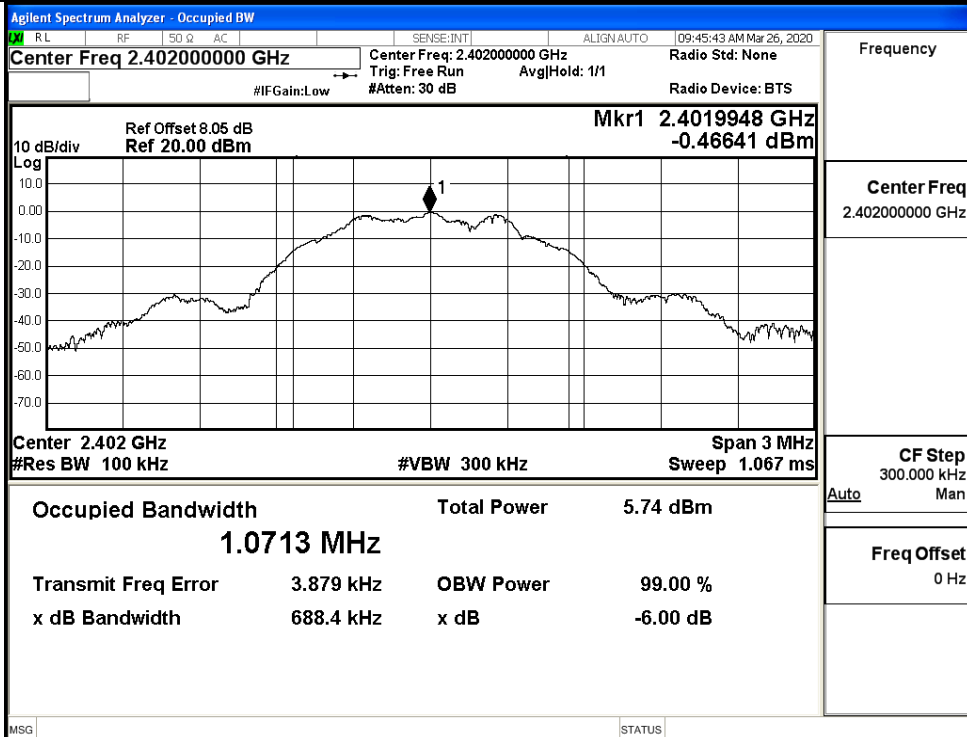


A.4 6dB Bandwidth

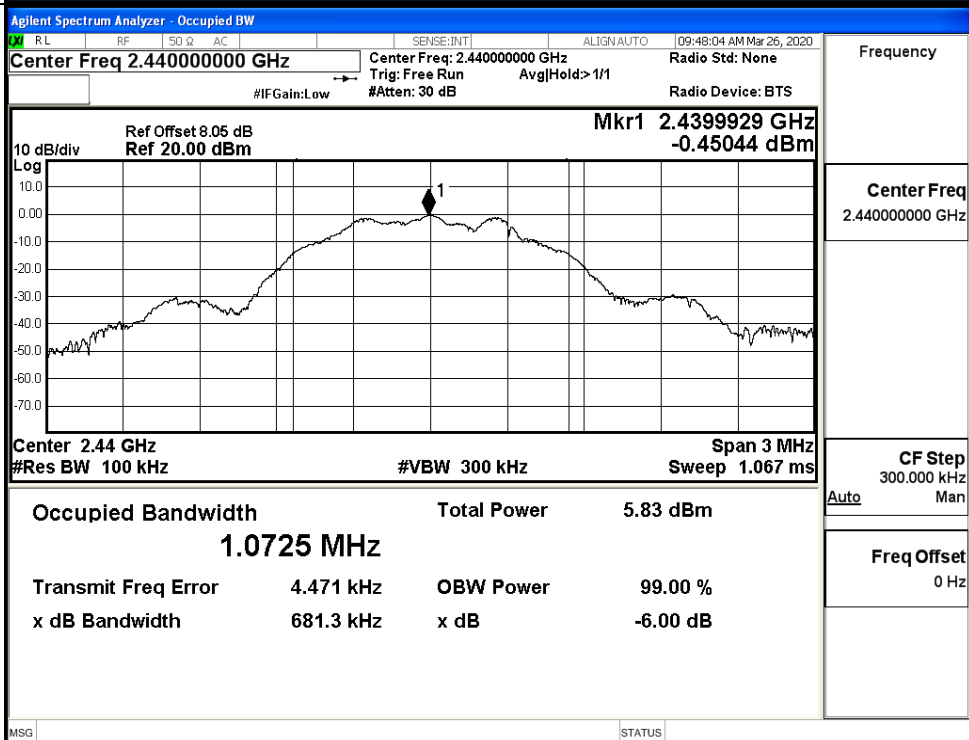
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6884	≥ 0.5	PASS
BT LE	MCH	0.6813	≥ 0.5	PASS
BT LE	HCH	0.6763	≥ 0.5	PASS

Test Graphs

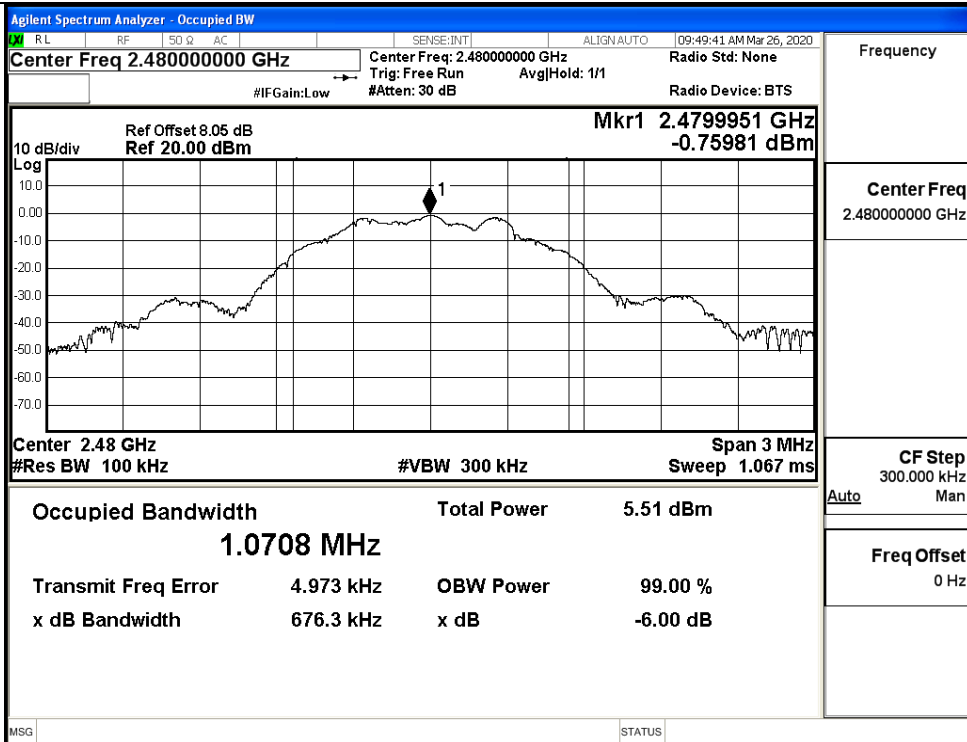
LCH



MCH



HCH

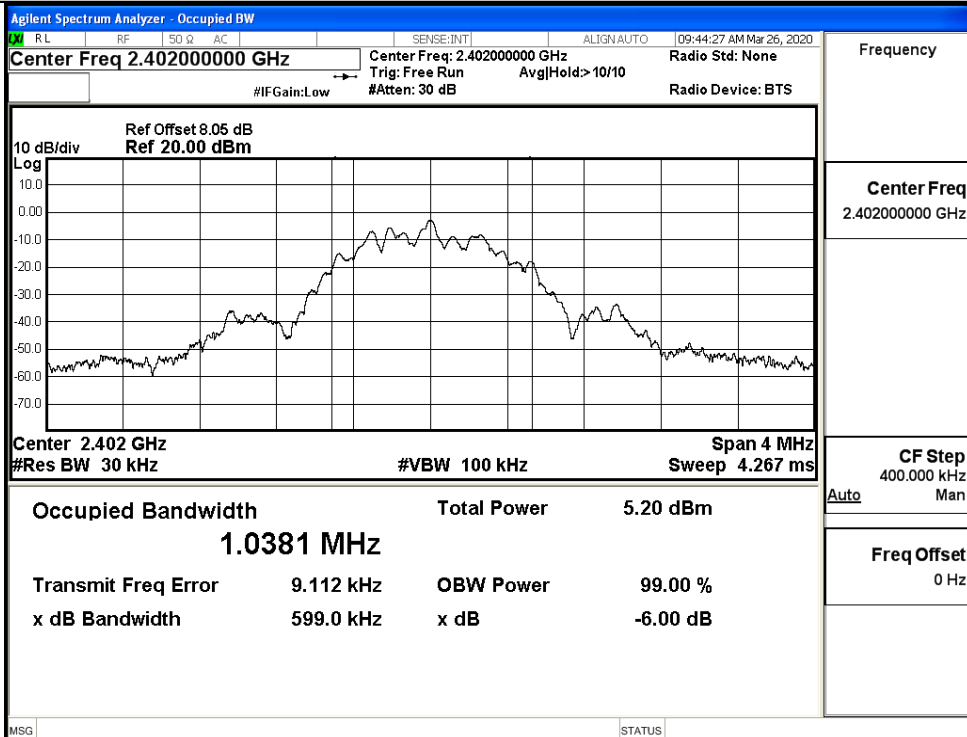


A.5 Occupied Bandwidth

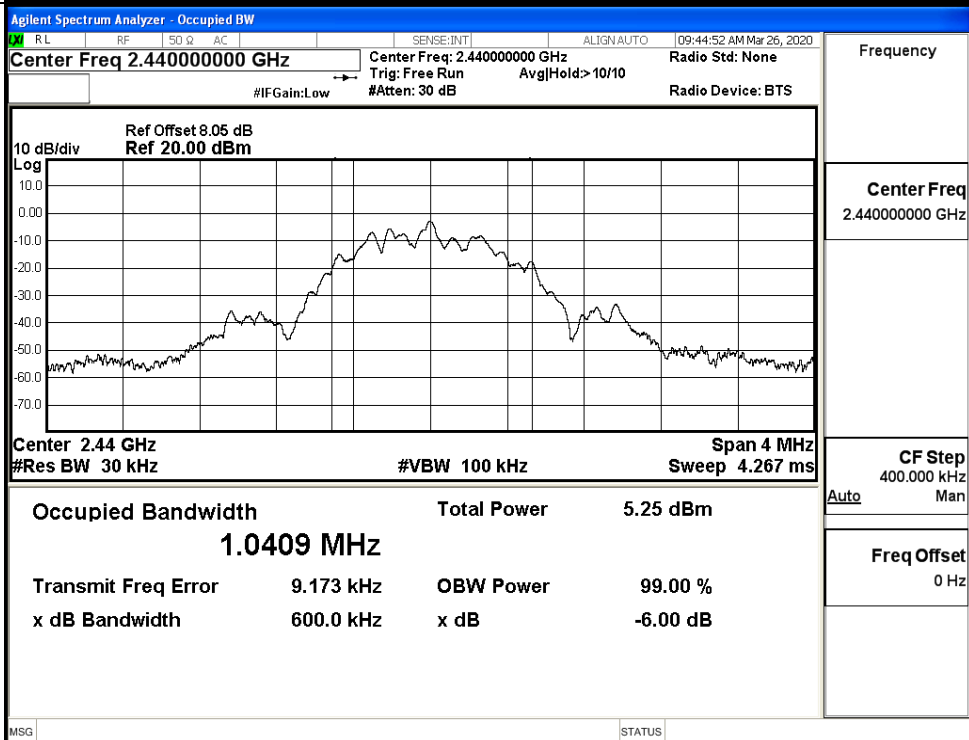
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0381	≥ 0.5	PASS
BT LE	MCH	1.0409	≥ 0.5	PASS
BT LE	HCH	1.0404	≥ 0.5	PASS

Test Graphs

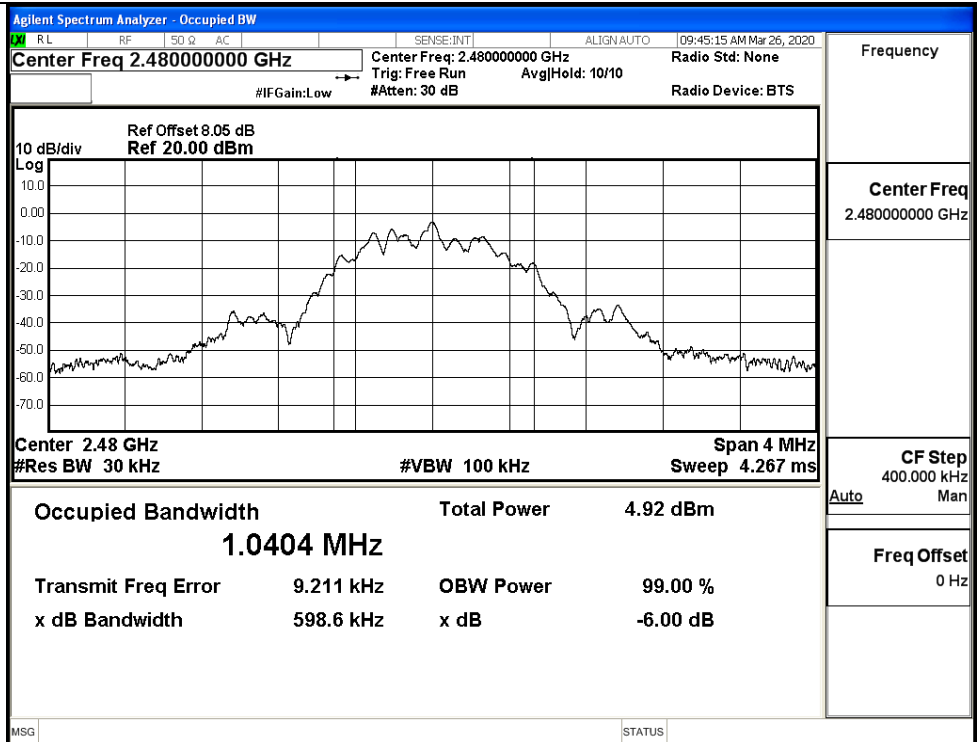
LCH



MCH



HCH

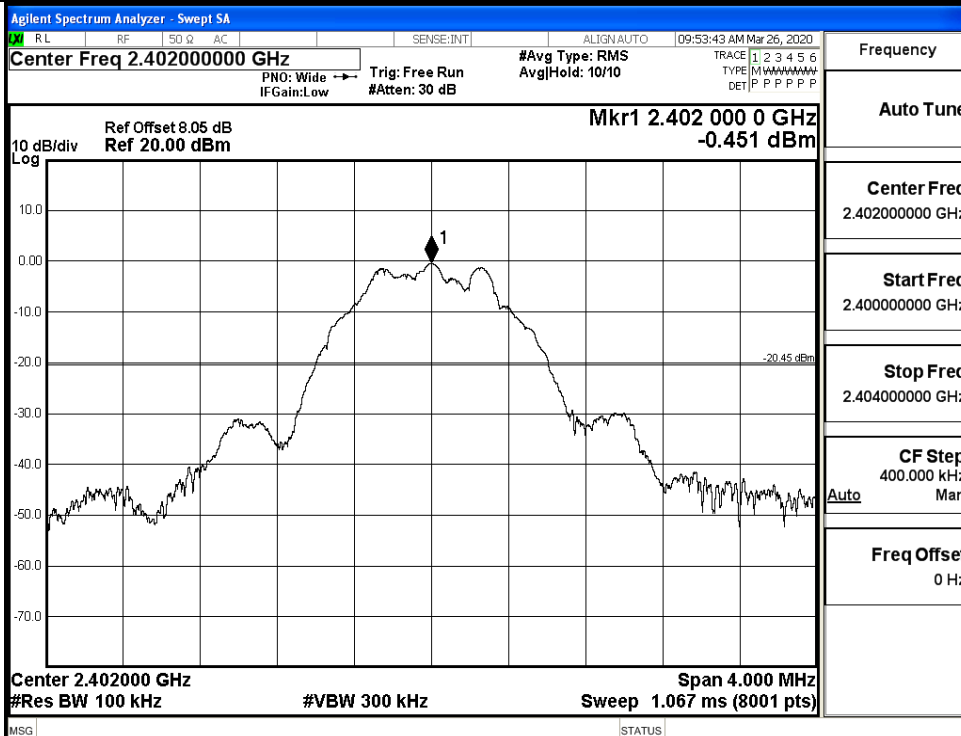


A.6 RF Conducted Spurious Emissions

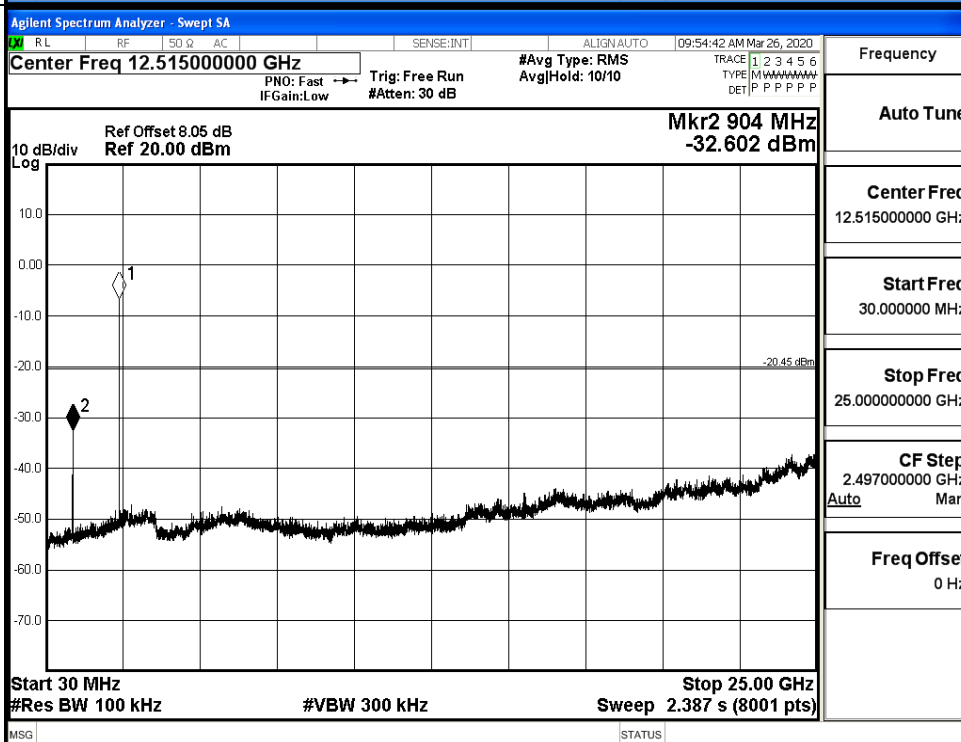
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.451	-32.602	-20.451	PASS
BT LE	MCH	-0.418	-37.441	-20.418	PASS
BT LE	HCH	-0.757	-35.957	-20.757	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

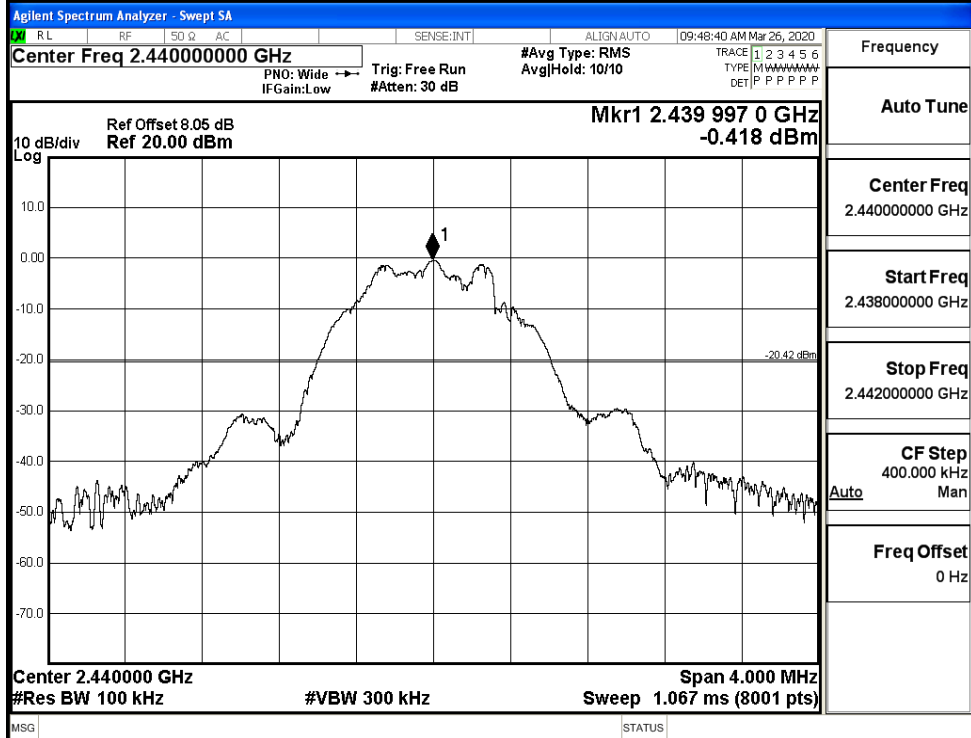


Puw/BT LE/LCH

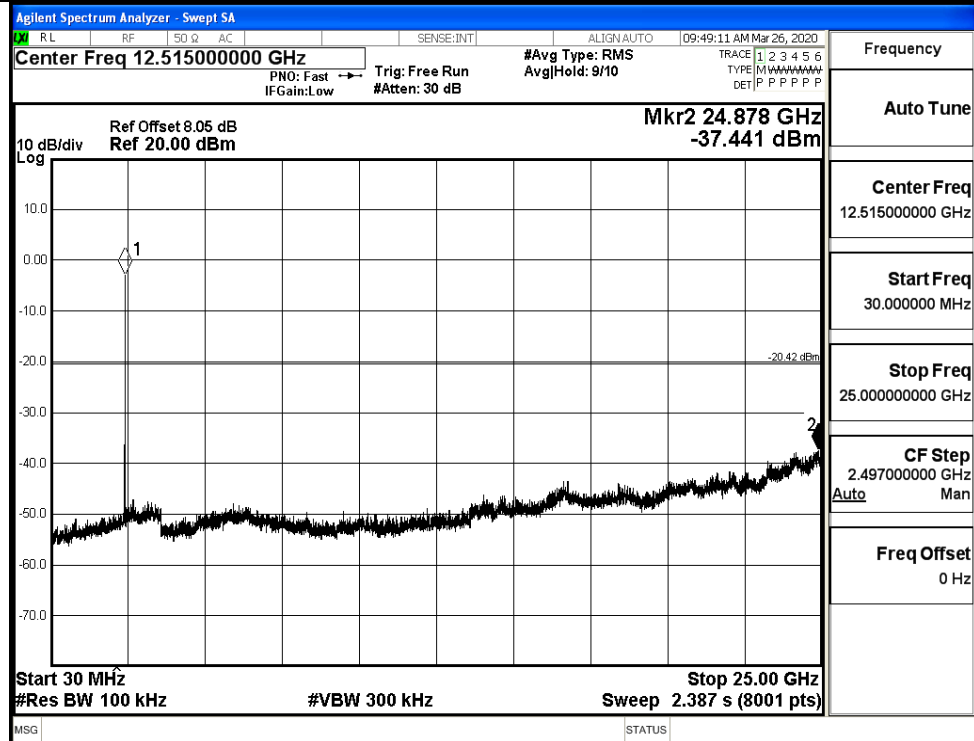


BT LE MCH Graphs

Pref/BT LE/MCH

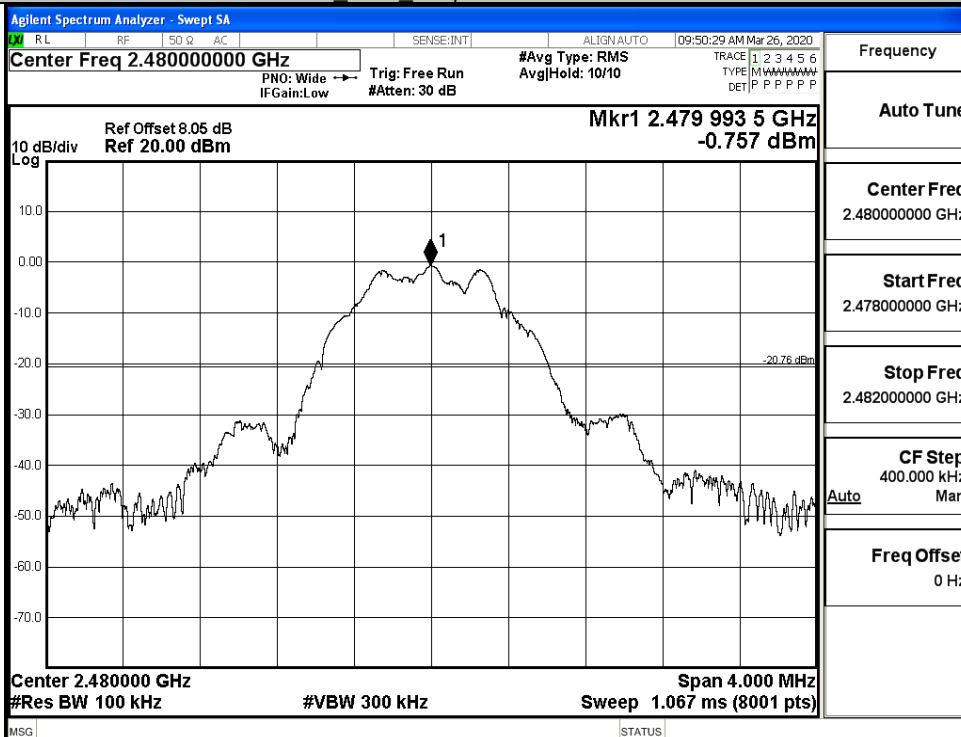


Puw/BT LE/MCH

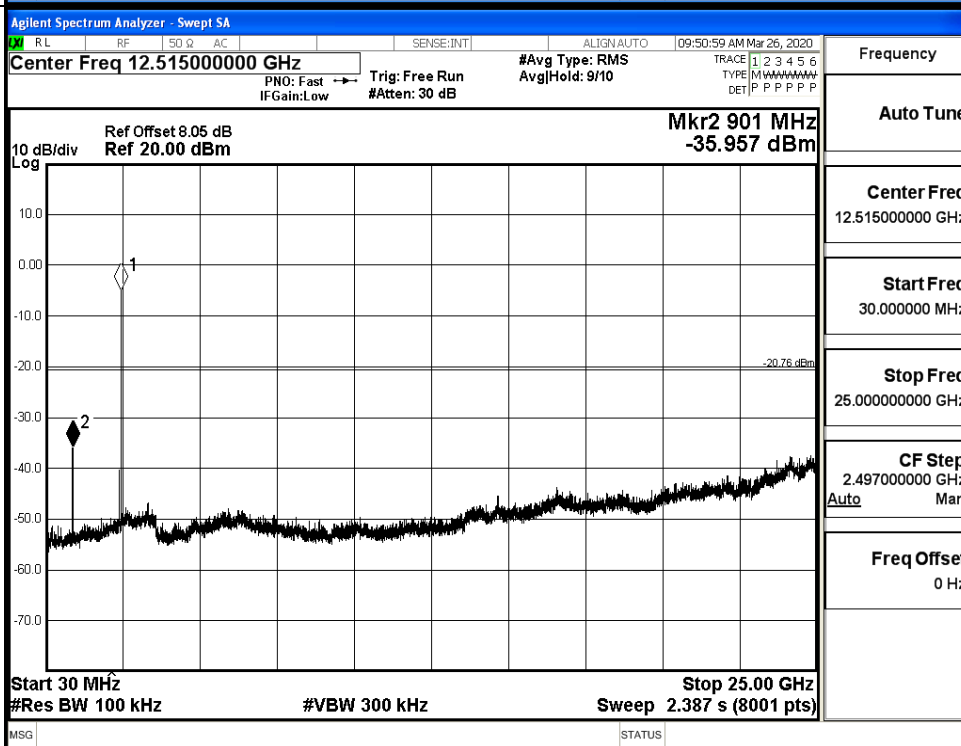


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

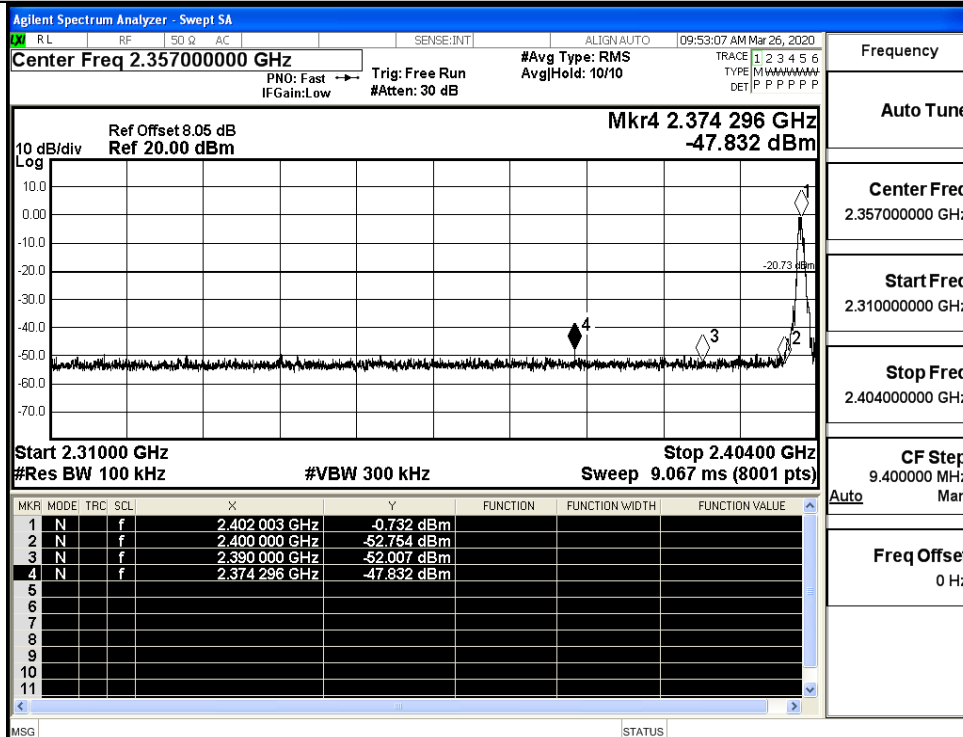


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.732	-47.832	-20.73	PASS
BT LE	HCH	-0.560	-49.472	-20.56	PASS

Test Graphs

LCH

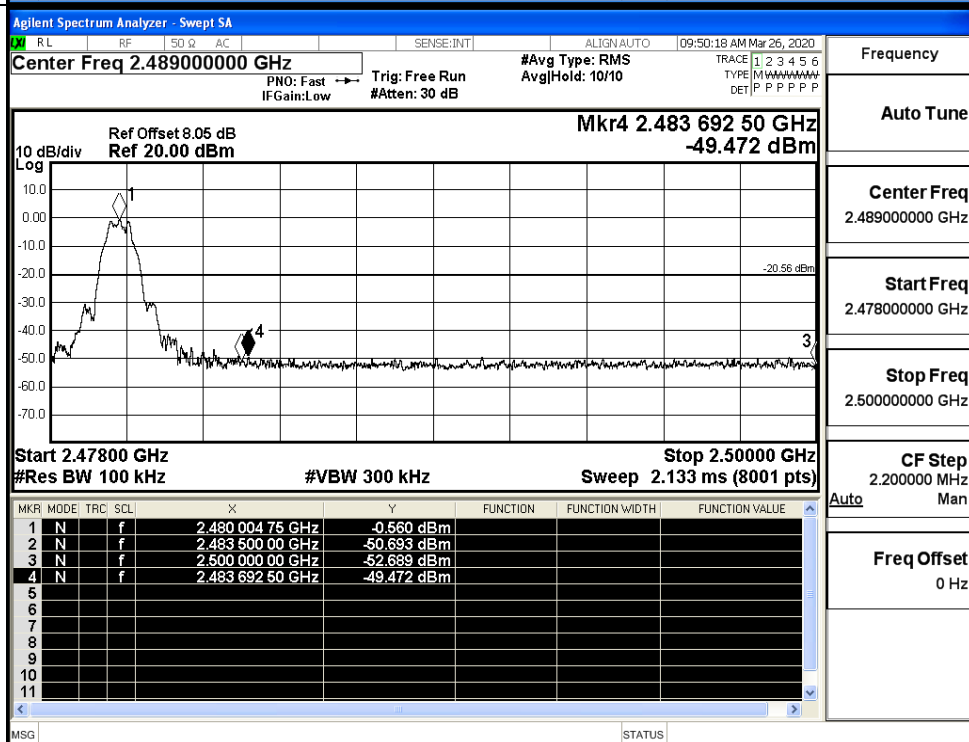


Frequency

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

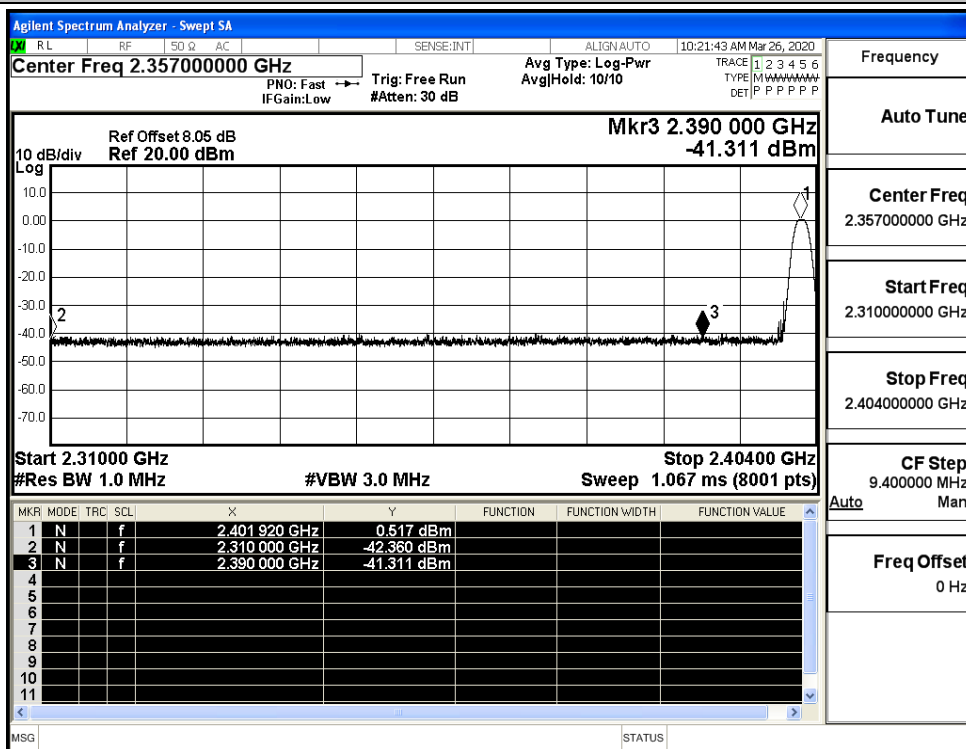
Auto Tune

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

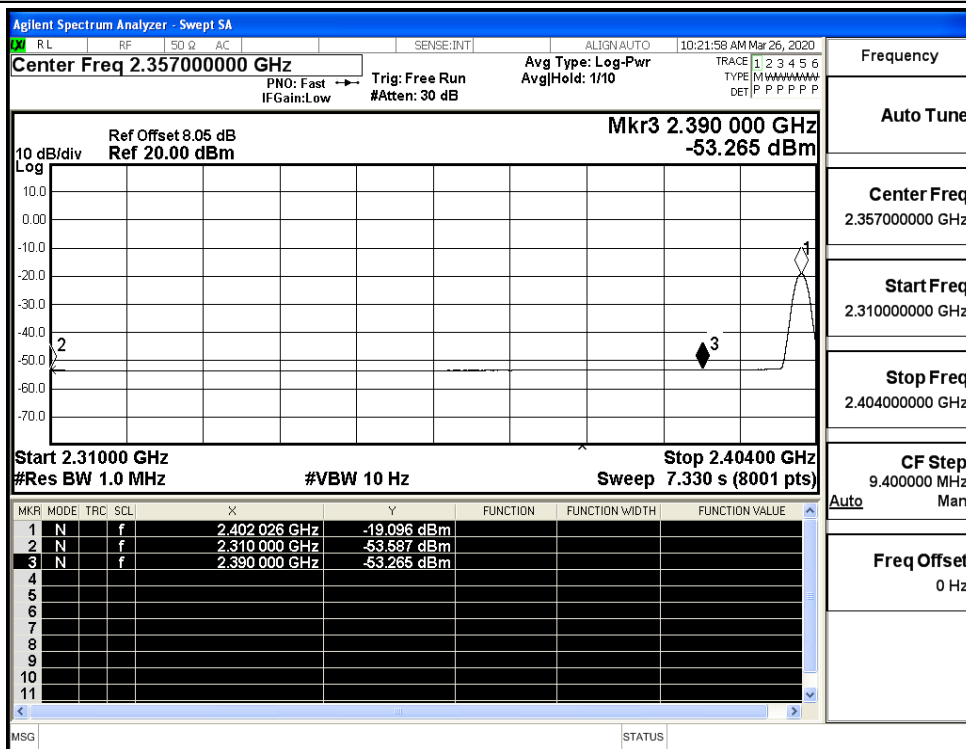
A.8 Restrict-band band-edge measurements

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	-42.36	2.0	0	54.90	PEAK	74	PASS
		Ant1	2310.0	-53.59	2.0	0	43.67	AV	54	PASS
		Ant1	2390.0	-41.31	2.0	0	55.95	PEAK	74	PASS
		Ant1	2390.0	-53.27	2.0	0	43.99	AV	54	PASS
	2480	Ant1	2483.5	-39.16	2.0	0	58.10	PEAK	74	PASS
		Ant1	2483.5	-52.80	2.0	0	44.46	AV	54	PASS
		Ant1	2500.0	-41.72	2.0	0	55.54	PEAK	74	PASS
		Ant1	2500.0	-52.63	2.0	0	44.62	AV	54	PASS

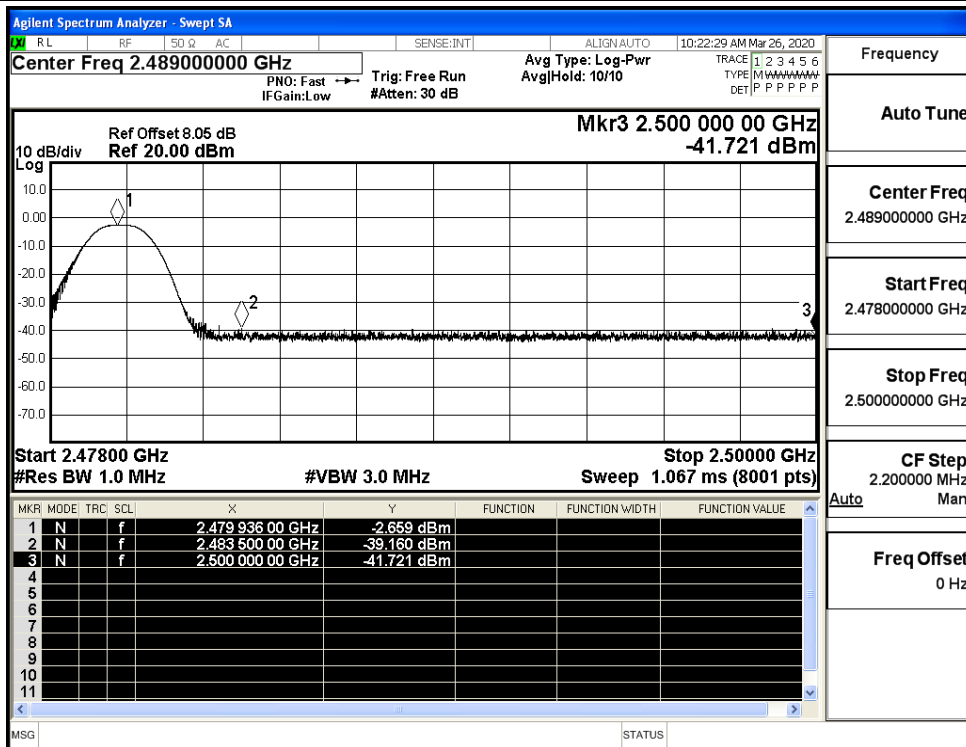
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

