

Appendix B

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

Product Name: Beebar Speaker Microphone

Trade Mark: Beebar

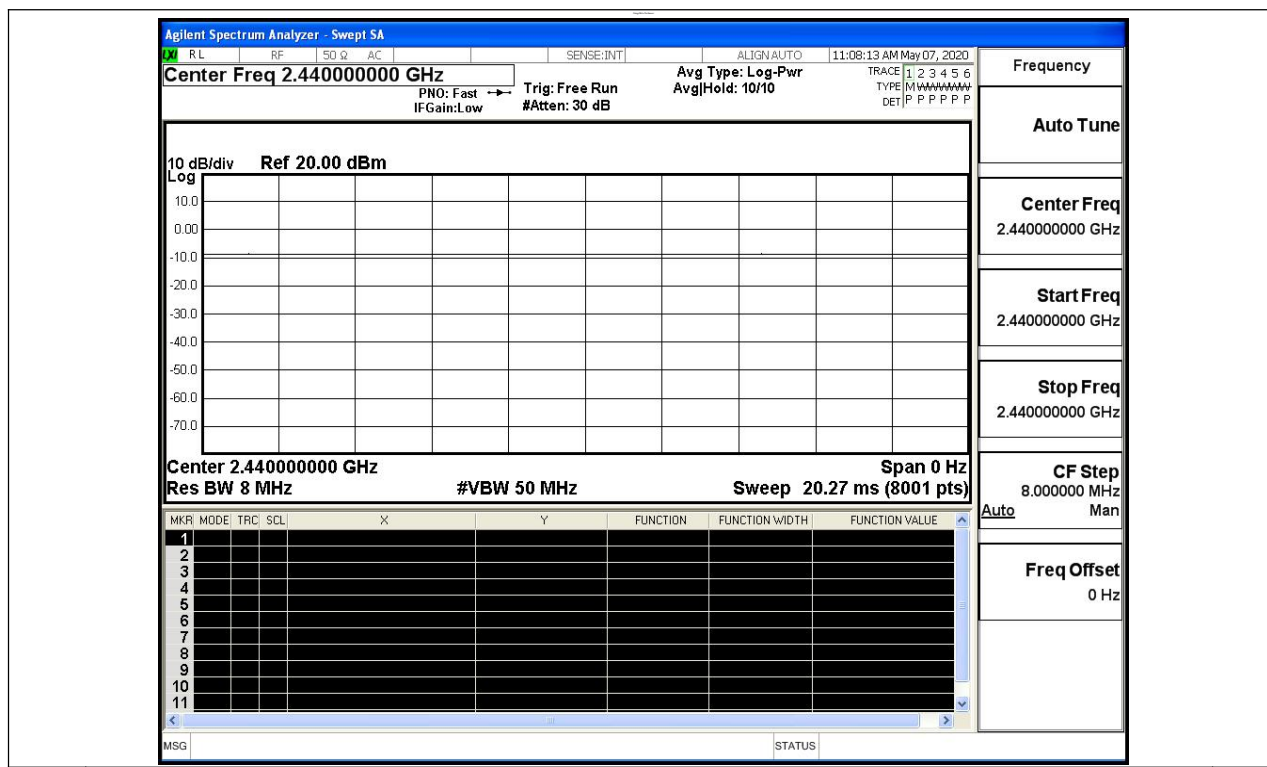
Test Model: G2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

B.1 Duty Cycle

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

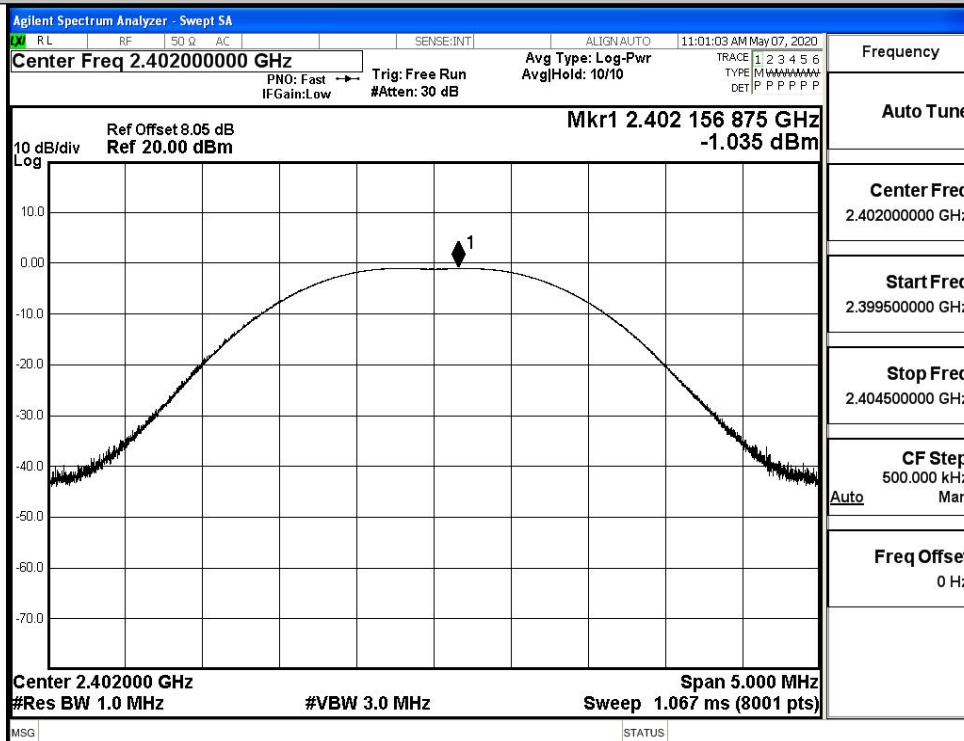


B.2 Maximum Conducted Peak Output Power

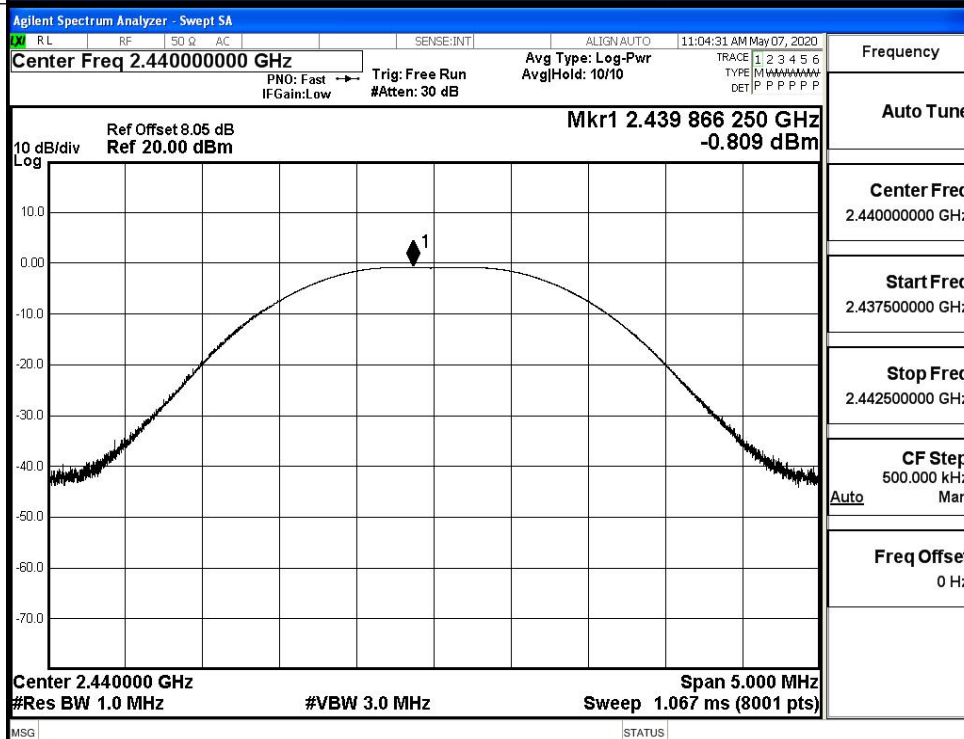
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.035	30	PASS
BT LE	MCH	-0.809	30	PASS
BT LE	HCH	-0.501	30	PASS

Test Graphs

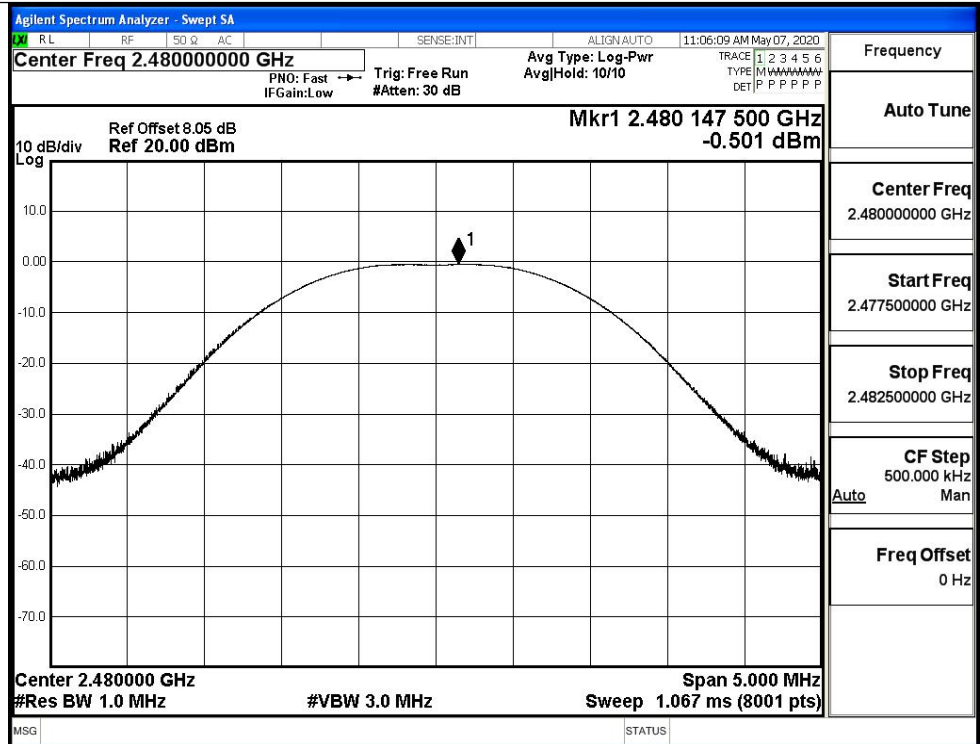
LCH



MCH



HCH

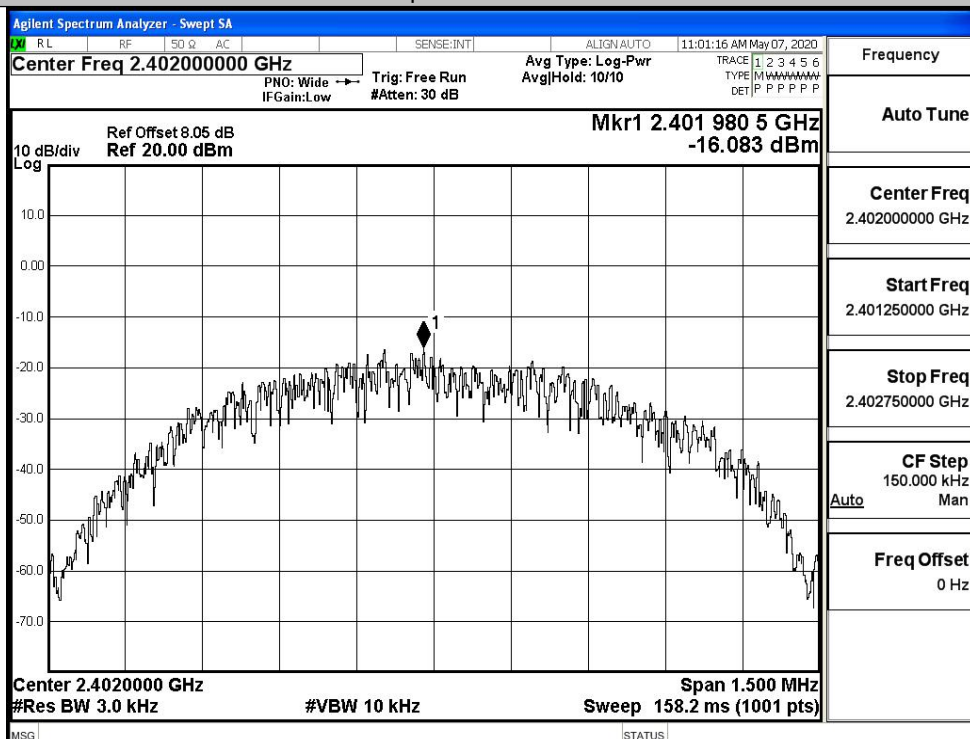


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.083	8	PASS
BT LE	MCH	-15.651	8	PASS
BT LE	HCH	-15.330	8	PASS

Test Graphs

LCH

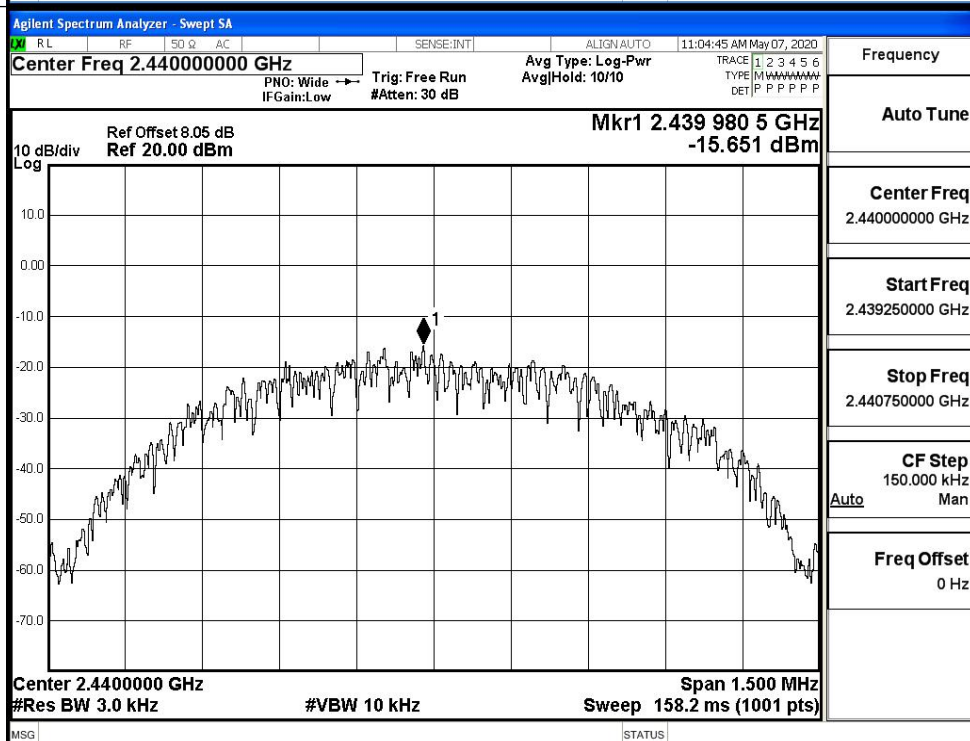


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

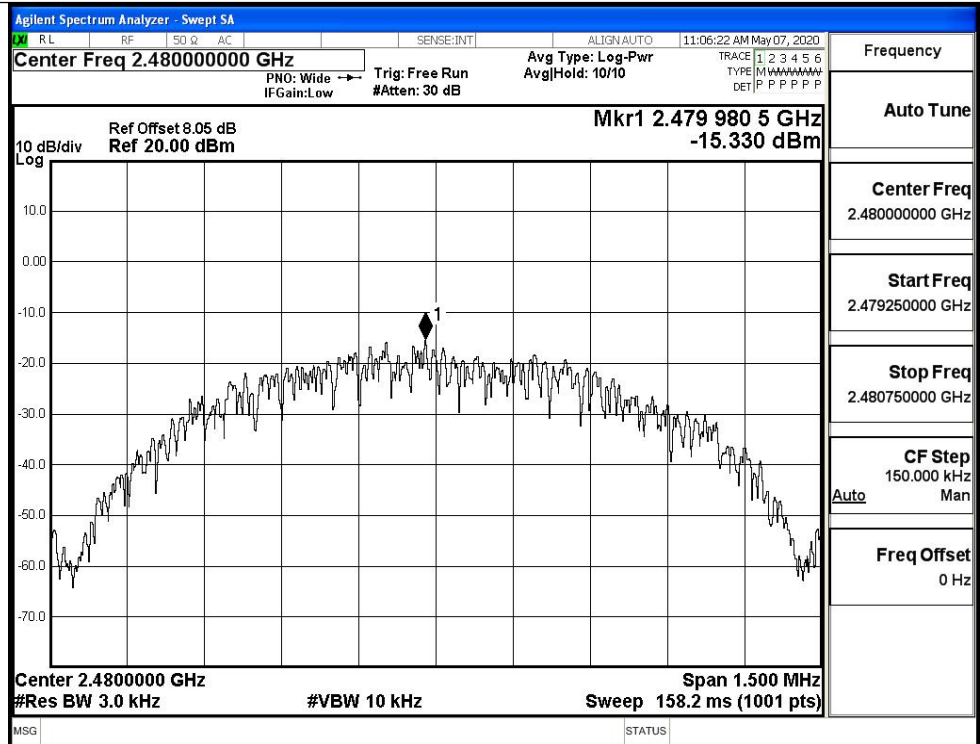


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

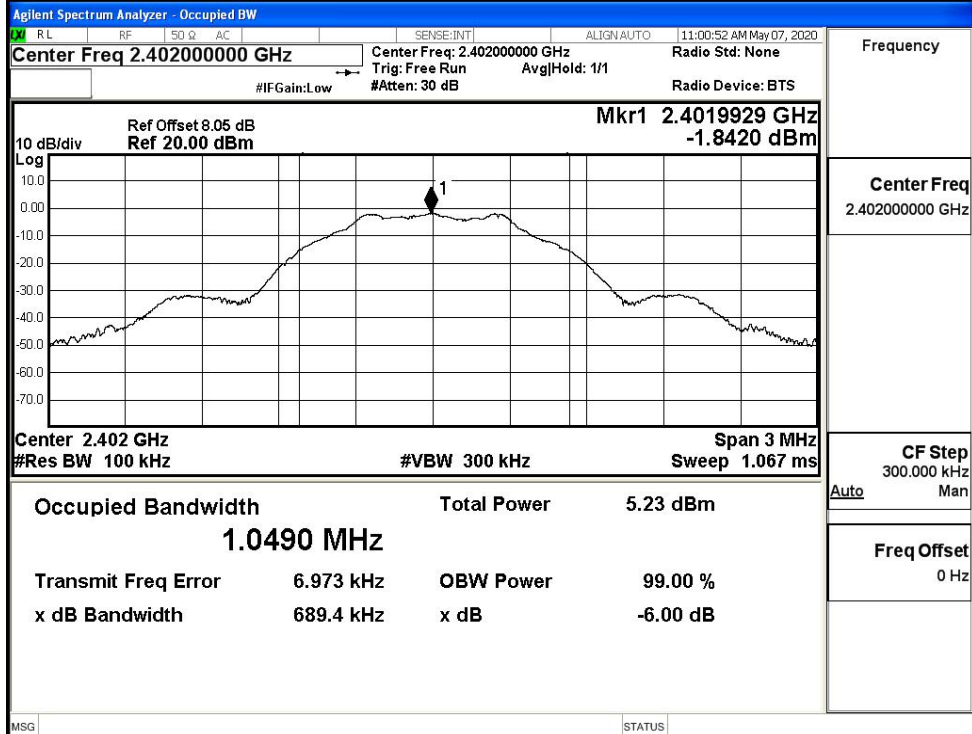


B.4 6dB Bandwidth

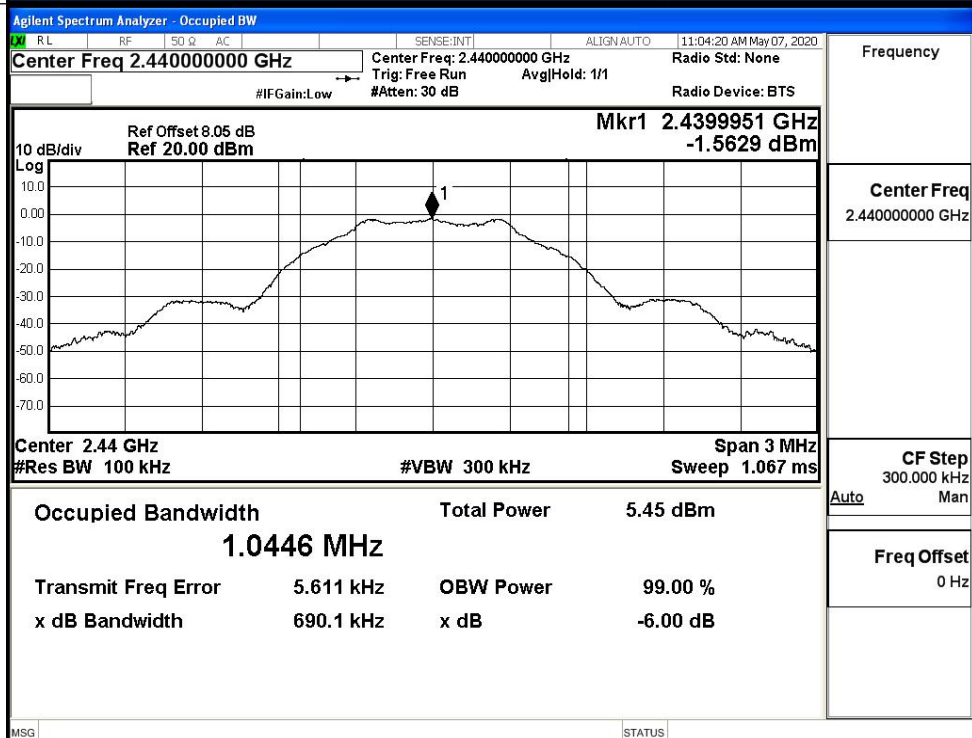
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6894	≥ 0.5	PASS
BT LE	MCH	0.6901	≥ 0.5	PASS
BT LE	HCH	0.6830	≥ 0.5	PASS

Test Graphs

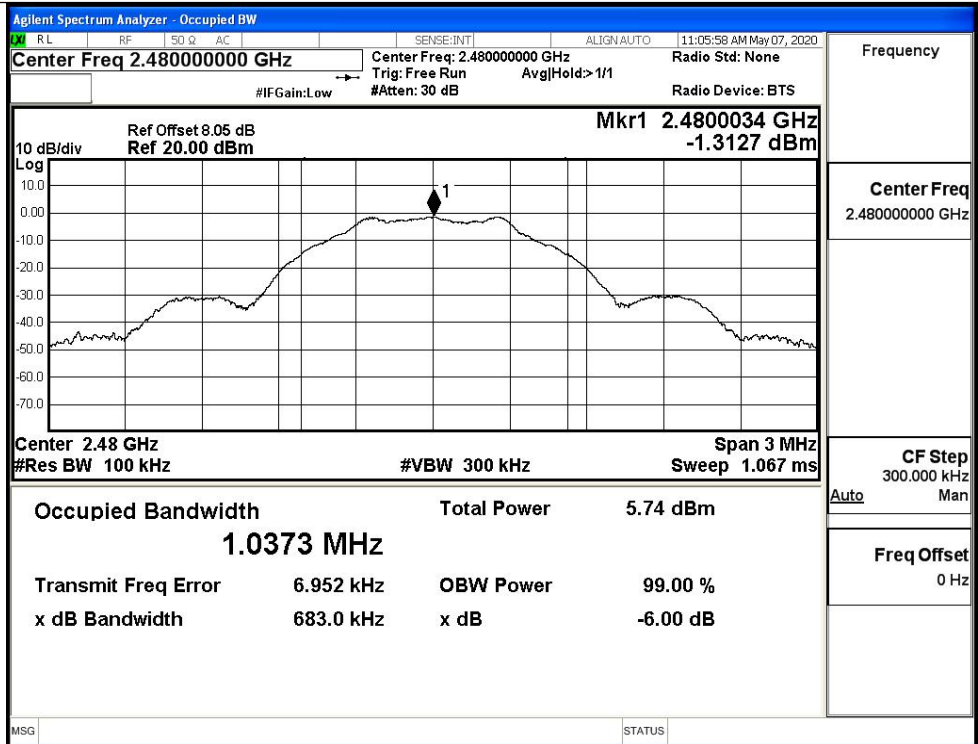
LCH



MCH



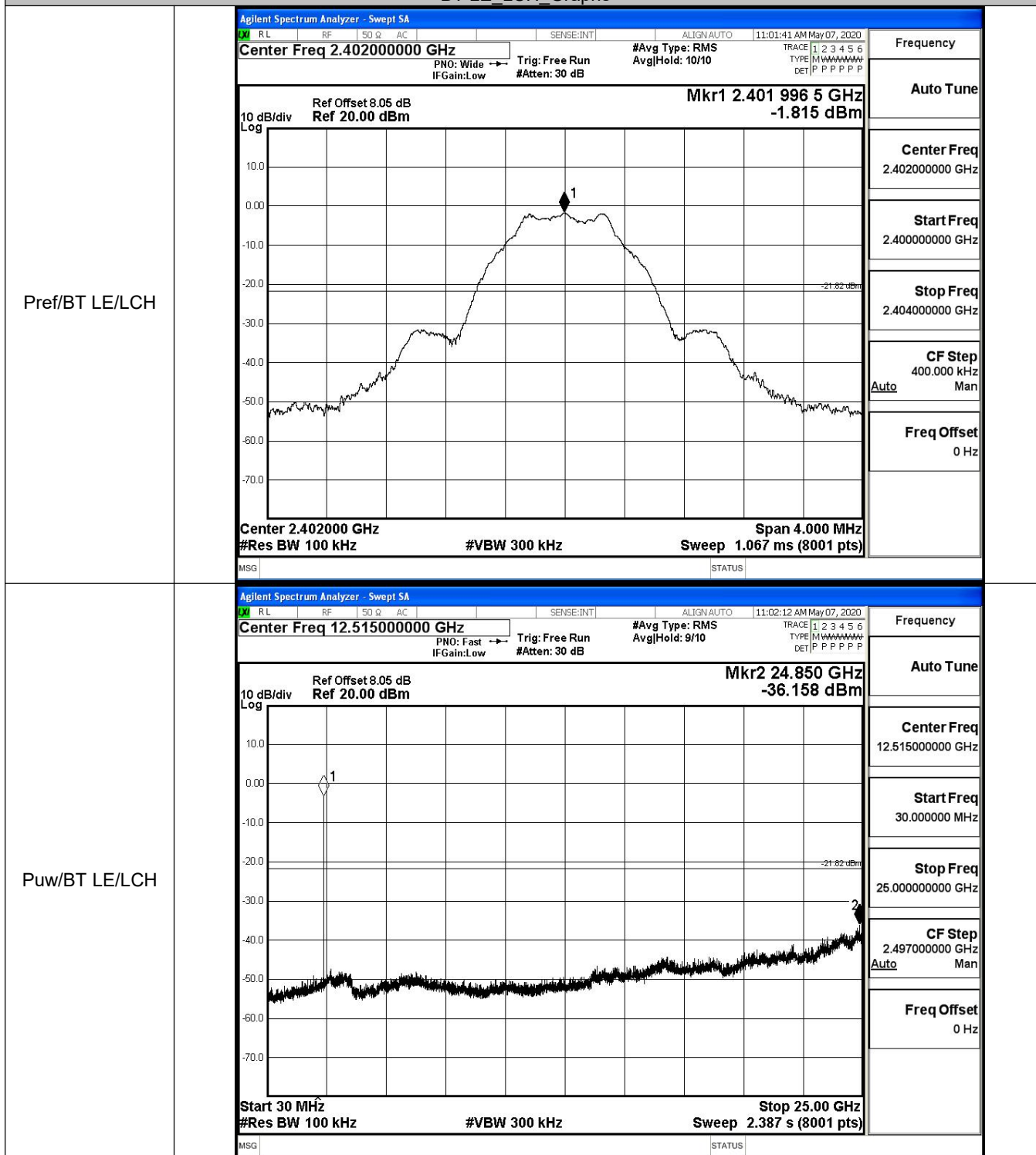
HCH



B.5 RF Conducted Spurious Emissions

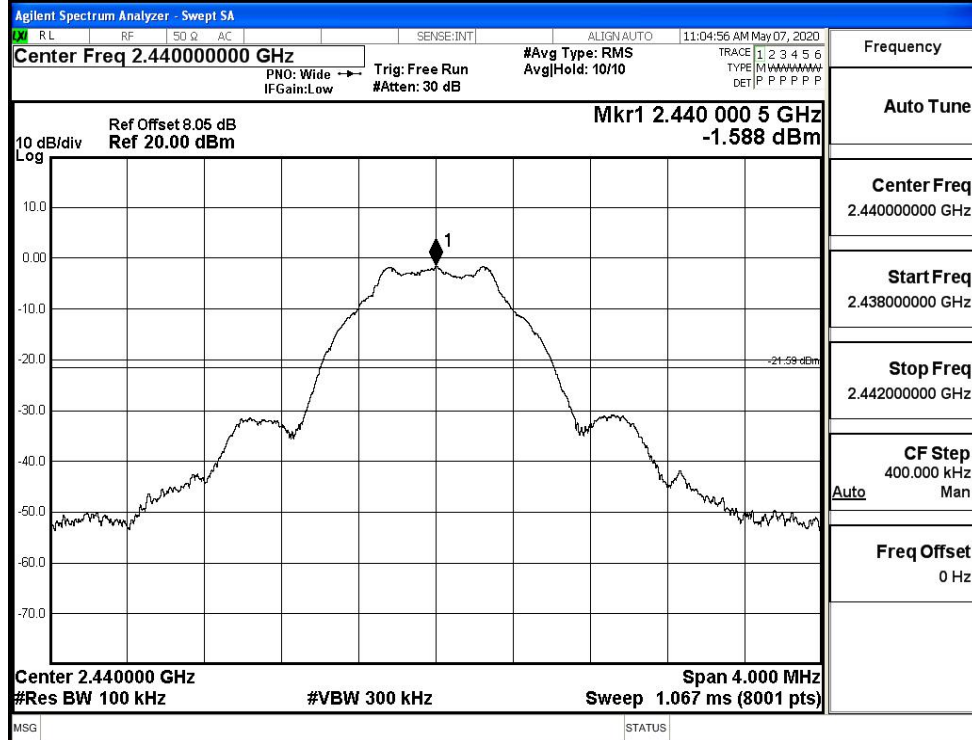
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.815	-36.158	-21.815	PASS
BT LE	MCH	-1.588	-37.058	-21.588	PASS
BT LE	HCH	-1.265	-36.829	-21.265	PASS

BT LE_LCH_Graphs

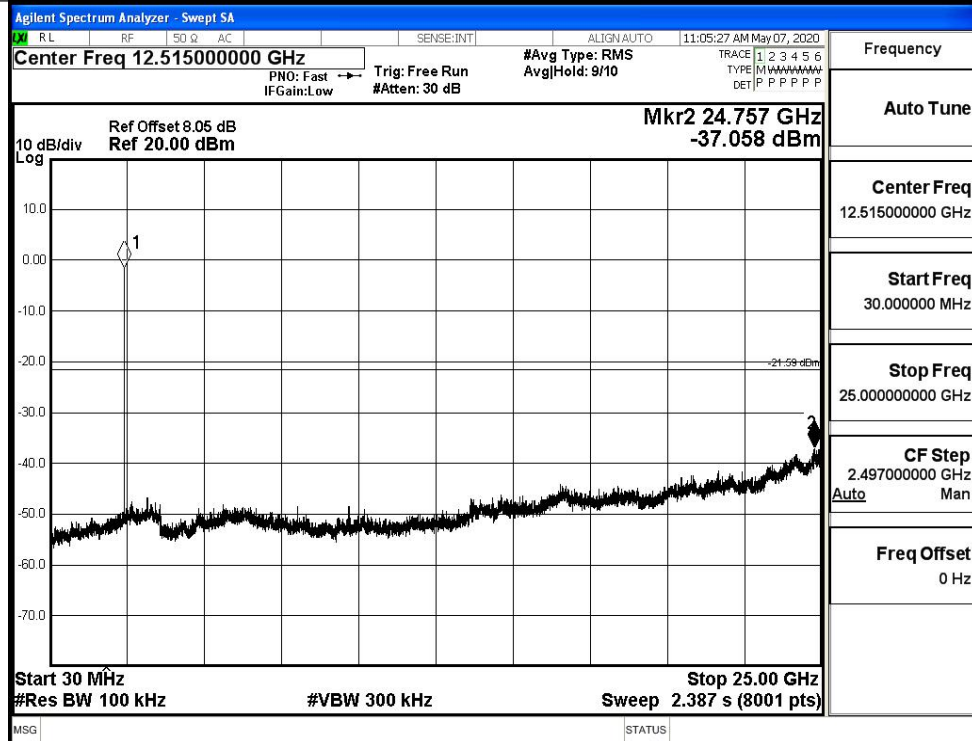


BT LE MCH Graphs

Pref/BT LE/MCH

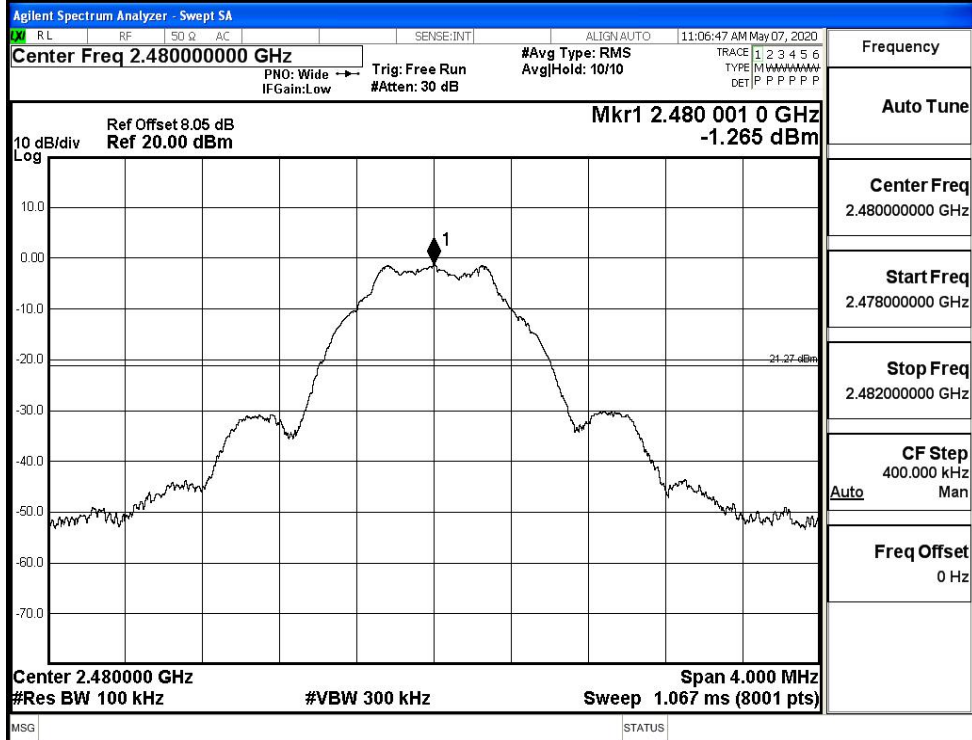


Puw/BT LE/MCH

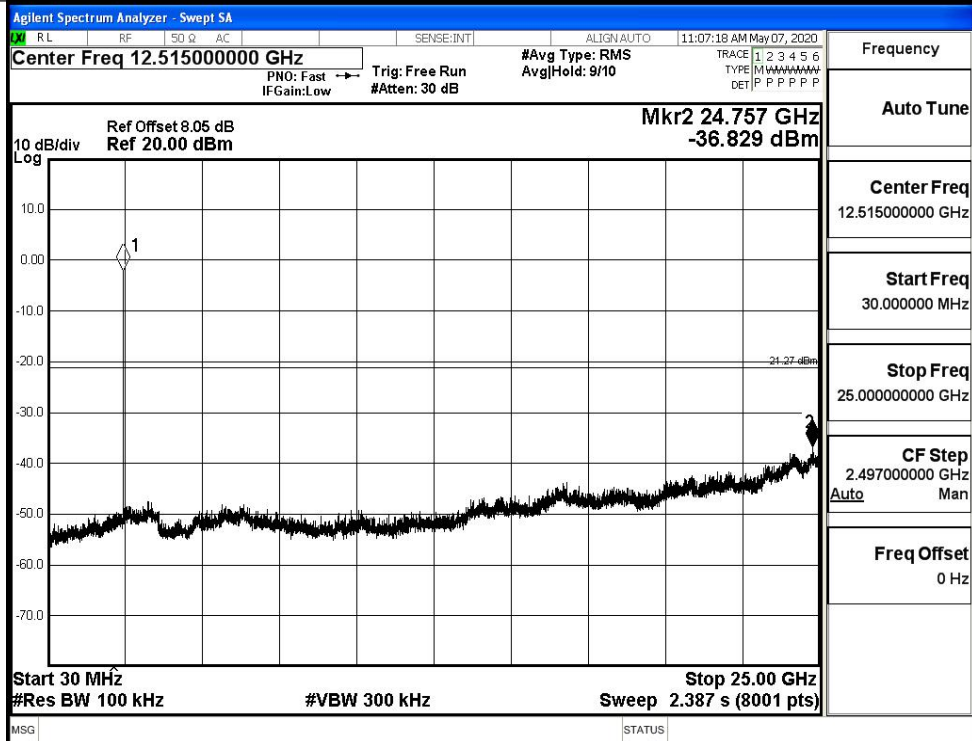


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

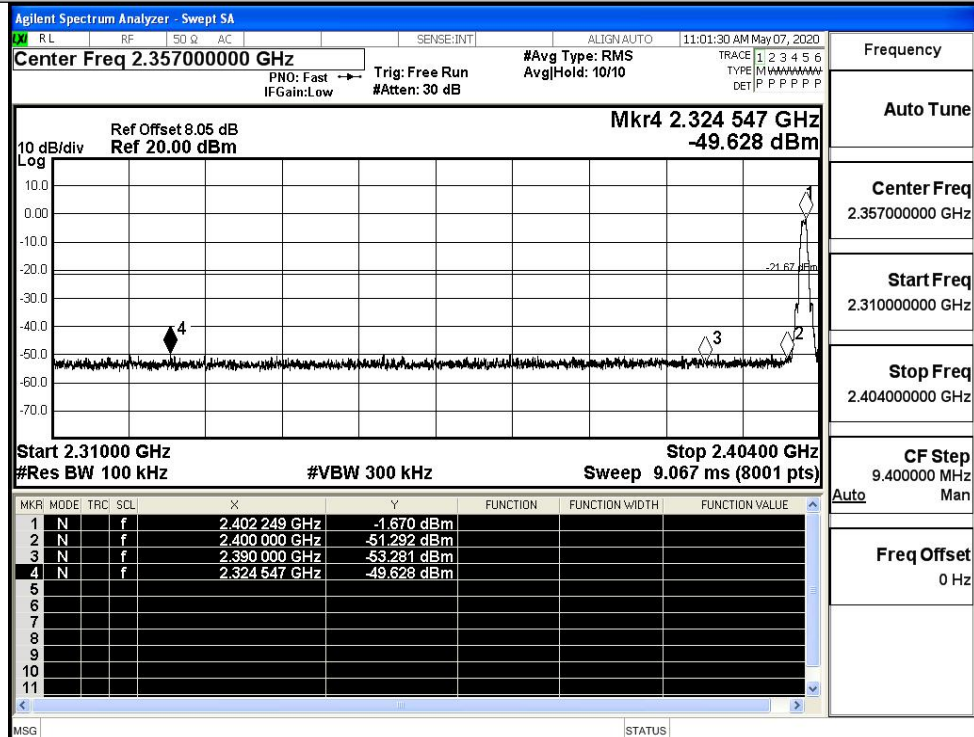


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.670	-49.628	-21.67	PASS
BT LE	HCH	-1.036	-49.392	-21.04	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

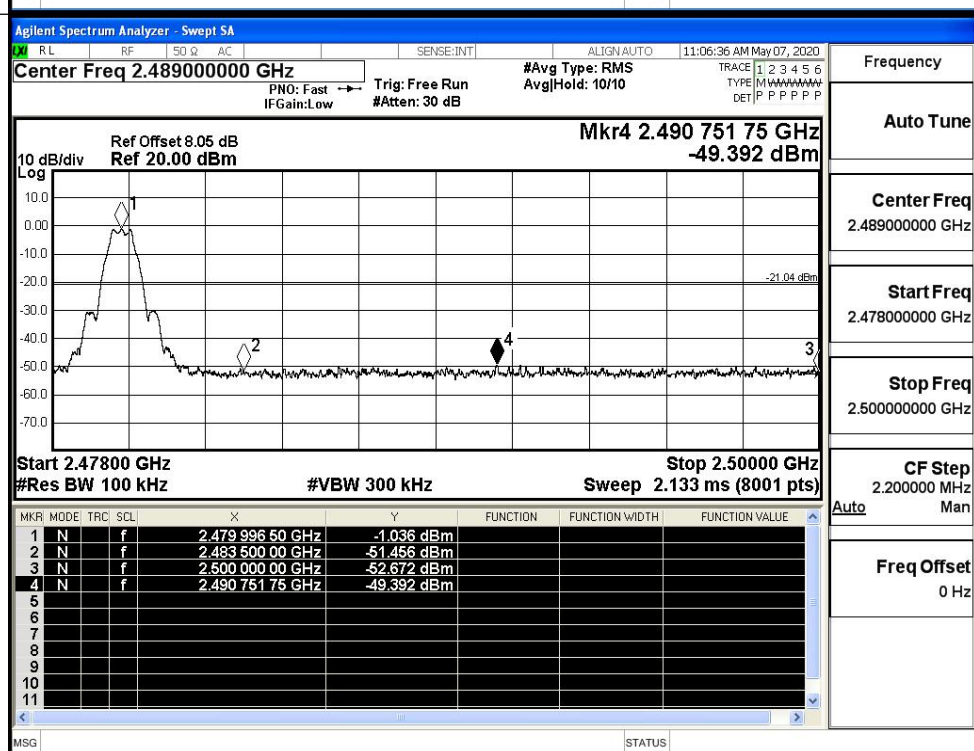
9.400000 MHz

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

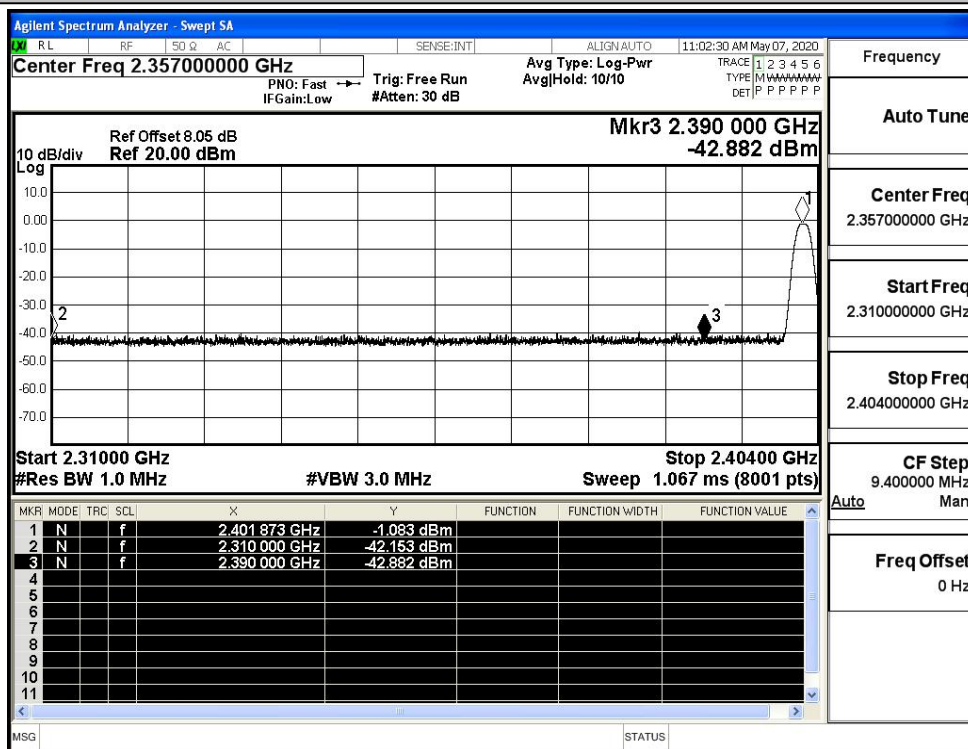
Freq Offset

0 Hz

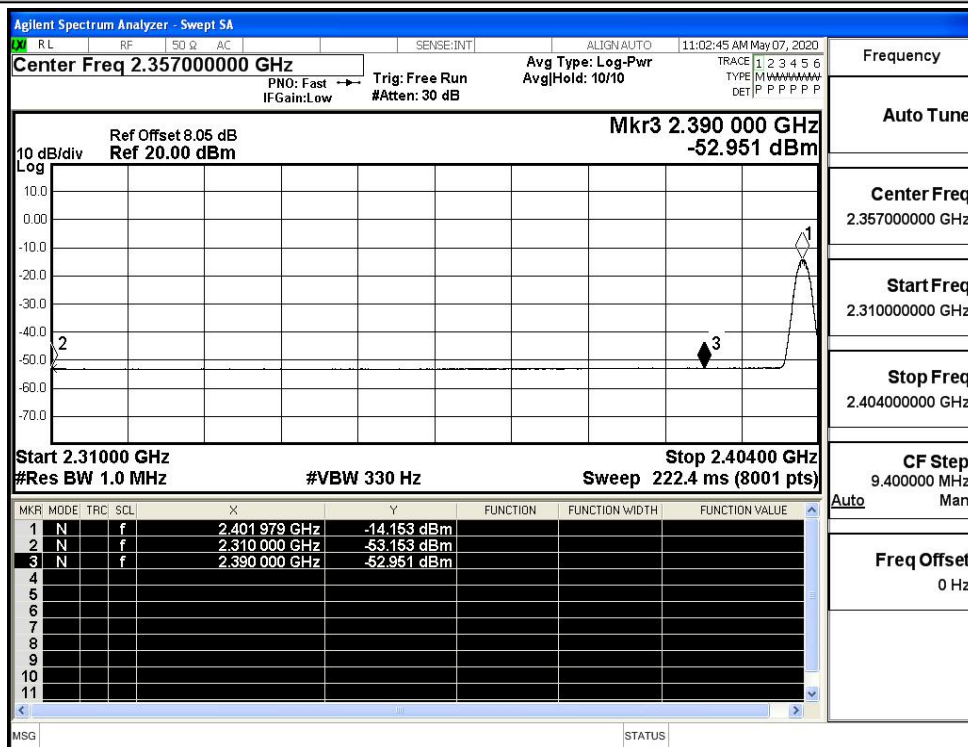
B.7 Restrict-band band-edge measurements

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	-42.15	2.04	0	55.12	PEAK	74	PASS
		Ant1	2310.0	-53.15	2.04	0	44.12	AV	54	PASS
		Ant1	2390.0	-42.88	2.04	0	54.39	PEAK	74	PASS
		Ant1	2390.0	-52.95	2.04	0	44.32	AV	54	PASS
	2480	Ant1	2483.5	-42.54	2.04	0	54.73	PEAK	74	PASS
		Ant1	2483.5	-52.49	2.04	0	44.78	AV	54	PASS
		Ant1	2500.0	-41.88	2.04	0	55.39	PEAK	74	PASS
		Ant1	2500.0	-52.34	2.04	0	44.93	AV	54	PASS

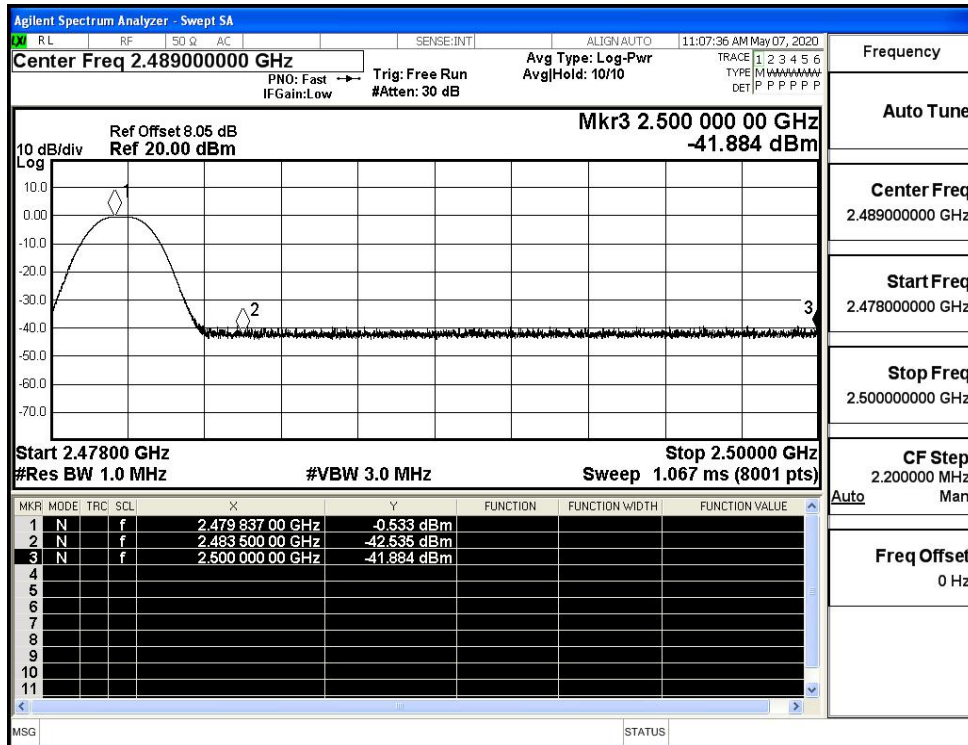
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

