

Appendix A

RF Test Data for BT LE V4.0(DTS)

Product Name: Fishing Scale

Trade Mark: Connect Scale

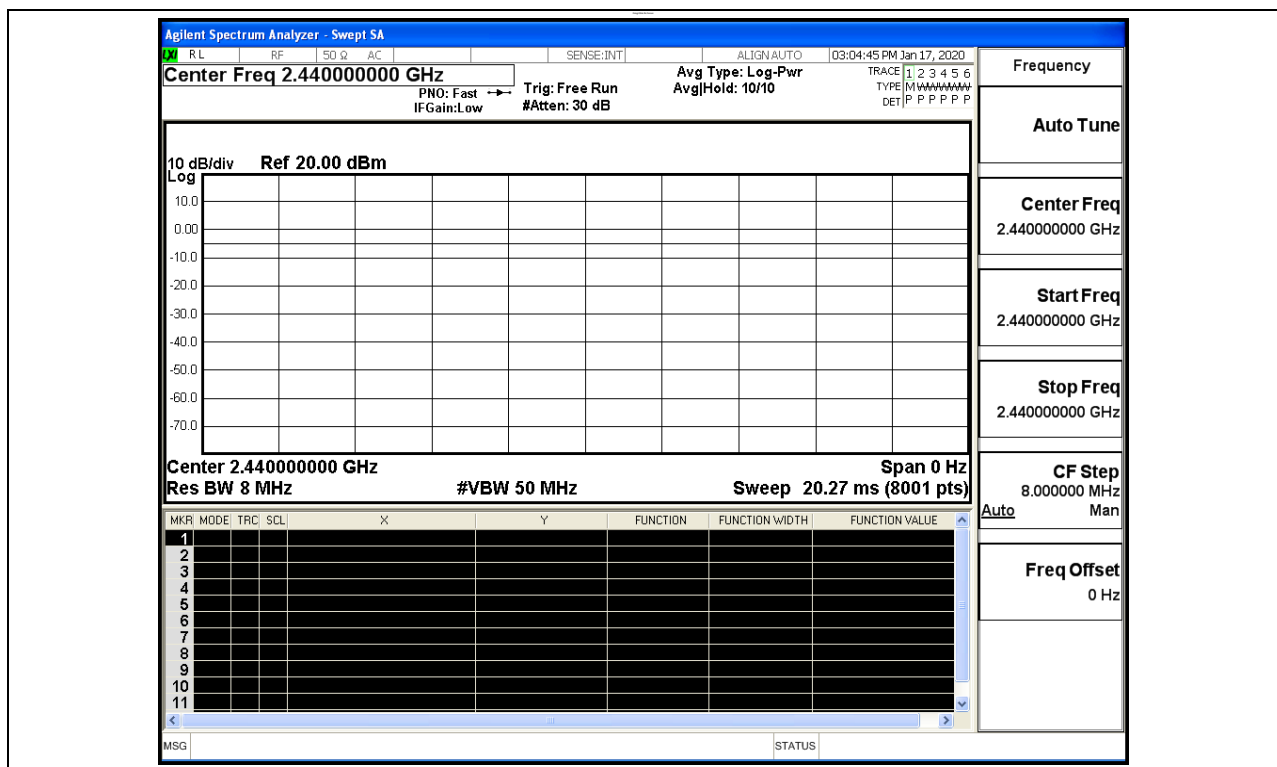
Test Model: ConnectScale 3

Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Tom.Liu

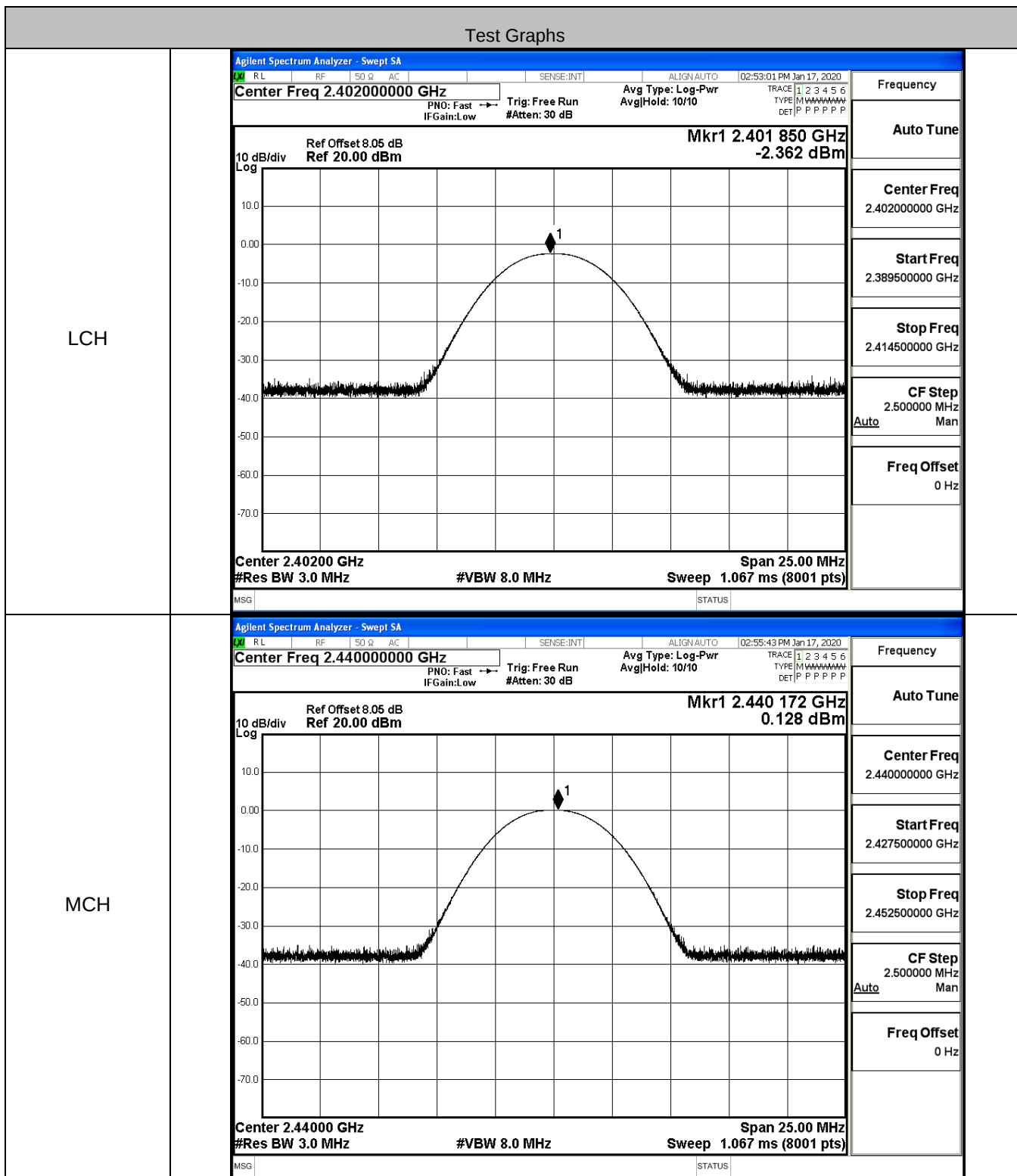
A.1 Duty Cycle

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

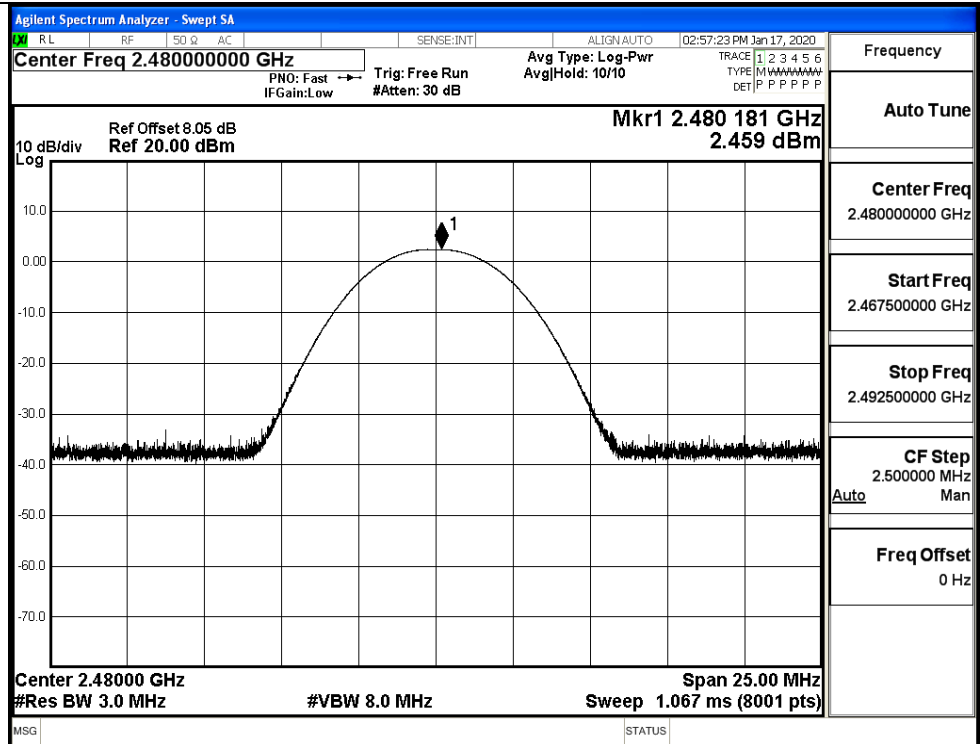


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.362	30	PASS
BT LE	MCH	0.128	30	PASS
BT LE	HCH	2.459	30	PASS



HCH

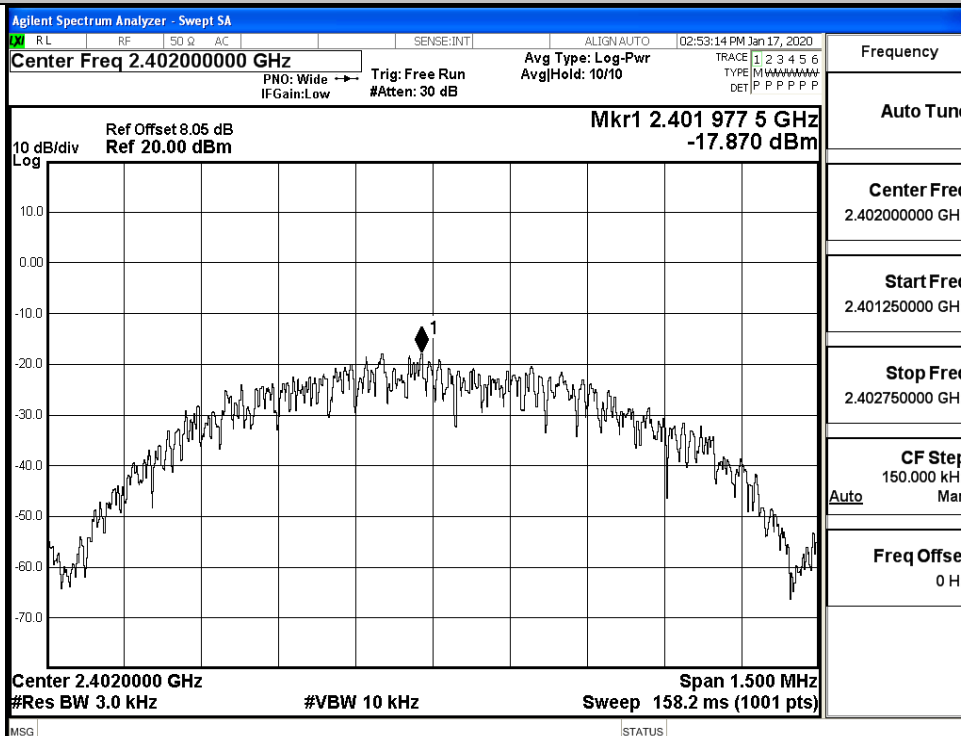


A.3 Maximum Power Spectral Density

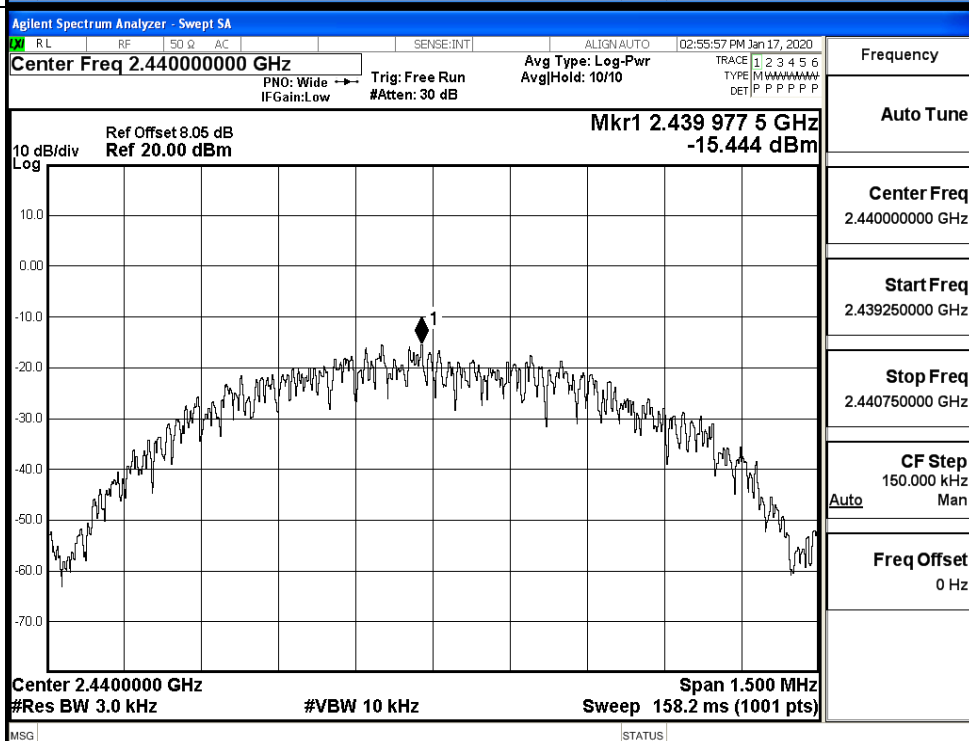
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.870	8	PASS
BT LE	MCH	-15.444	8	PASS
BT LE	HCH	-13.571	8	PASS

Test Graphs

LCH



MCH



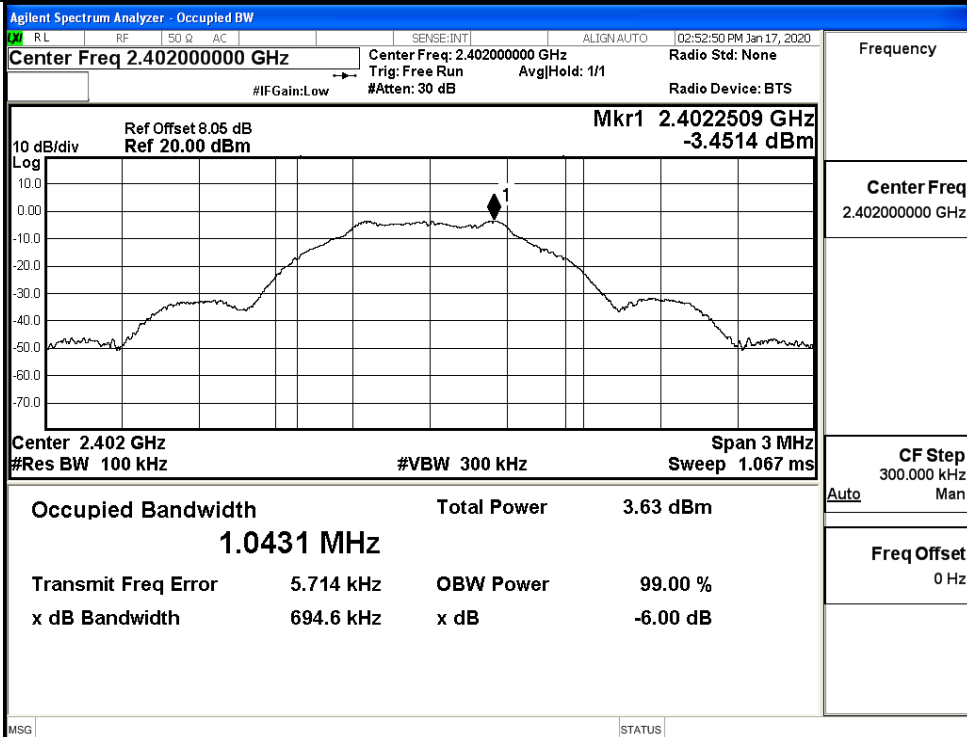


A.4 6dB Bandwidth

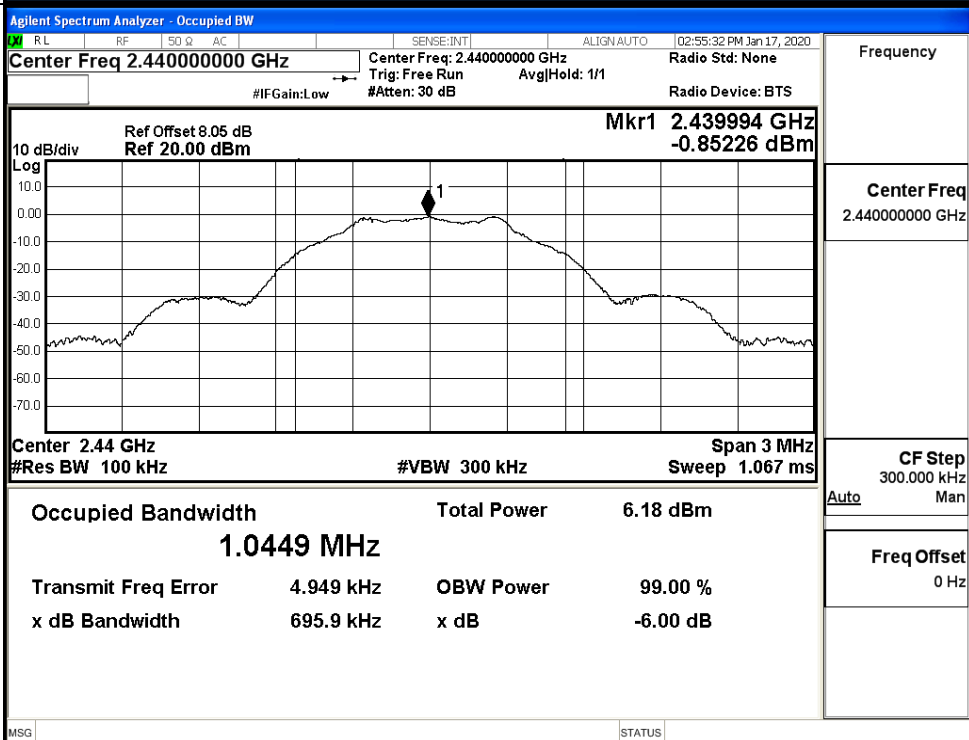
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6946	≥ 0.5	PASS
BT LE	MCH	0.6959	≥ 0.5	PASS
BT LE	HCH	0.6982	≥ 0.5	PASS

Test Graphs

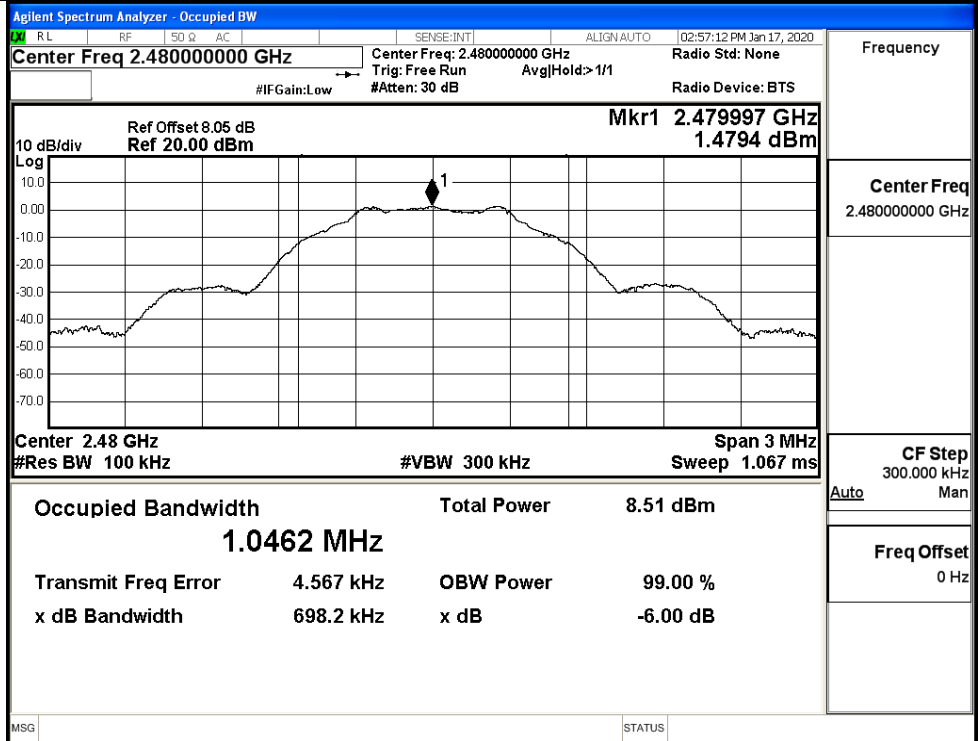
LCH



MCH



HCH

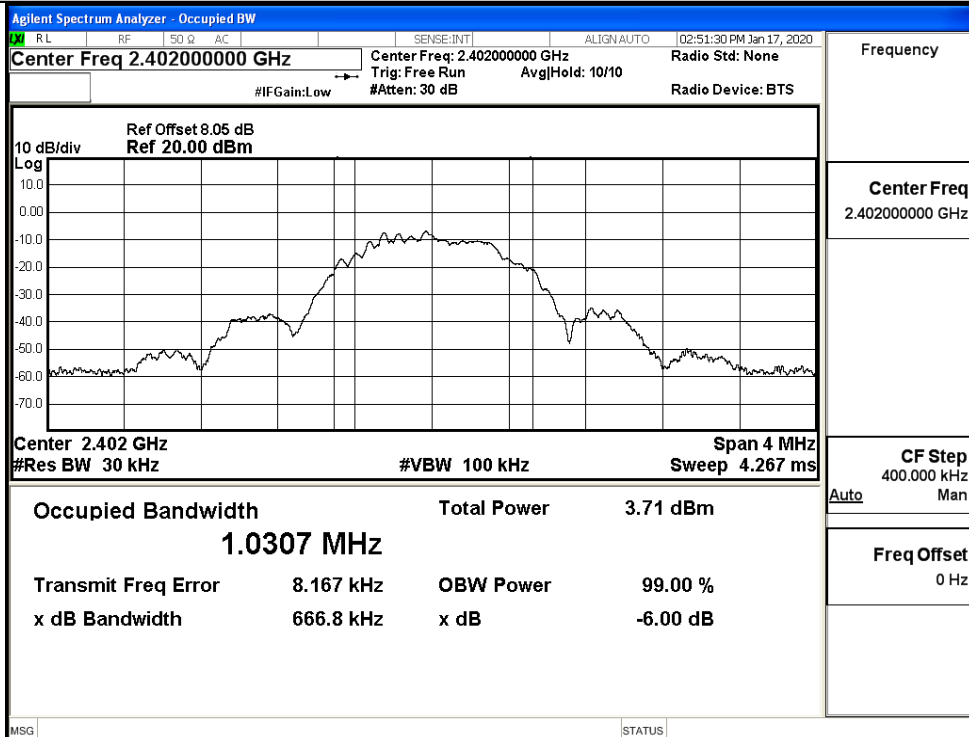


A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0307	≥ 0.5	PASS
BT LE	MCH	1.0335	≥ 0.5	PASS
BT LE	HCH	1.0350	≥ 0.5	PASS

Test Graphs

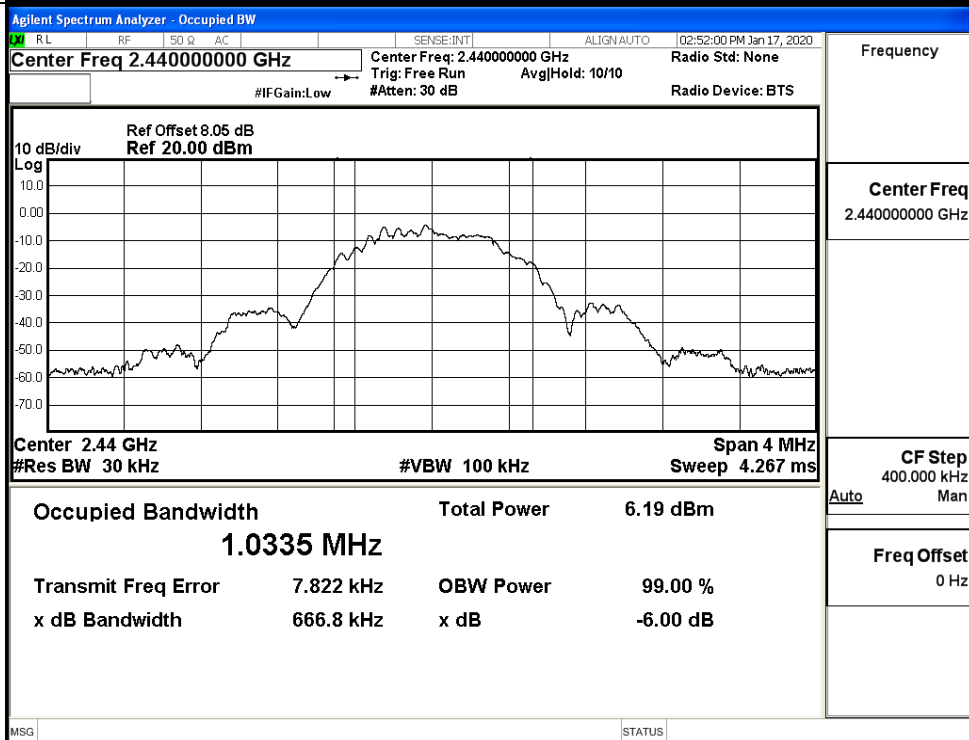
LCH



Frequency

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

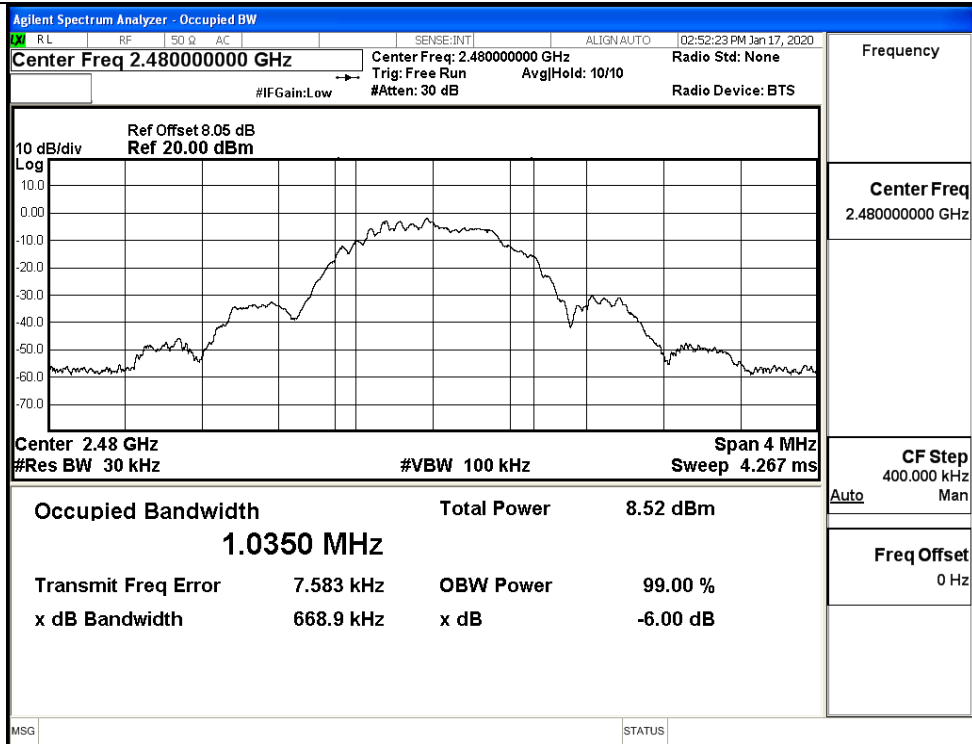
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

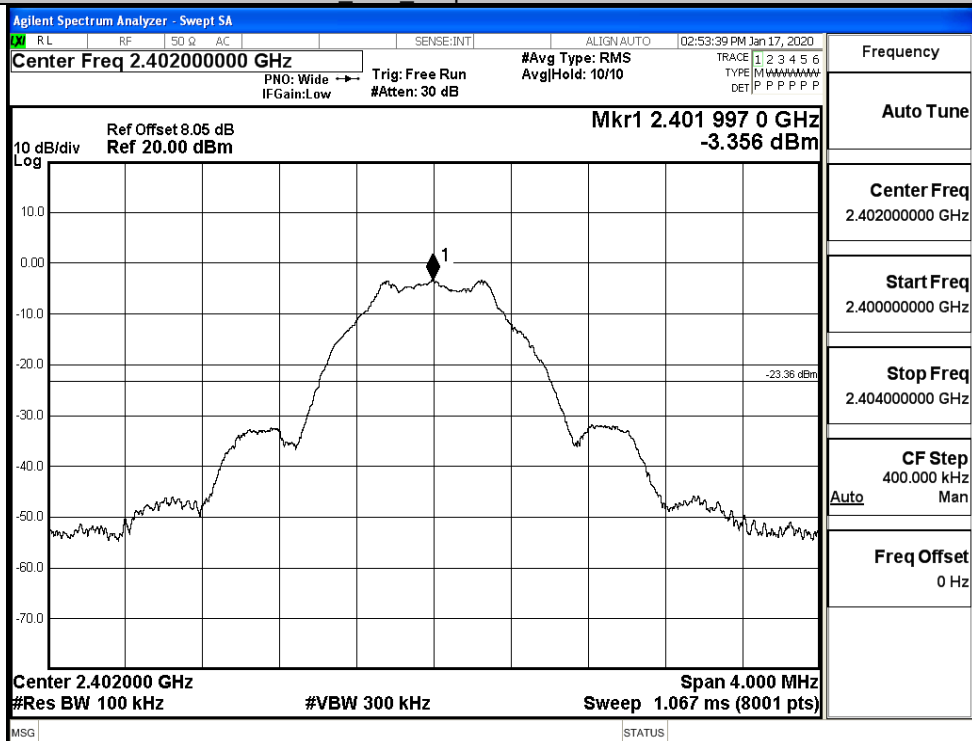
Center Freq
2.480000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.356	-36.305	-23.356	PASS
BT LE	MCH	-0.862	-36.372	-20.862	PASS
BT LE	HCH	1.484	-37.400	-18.516	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

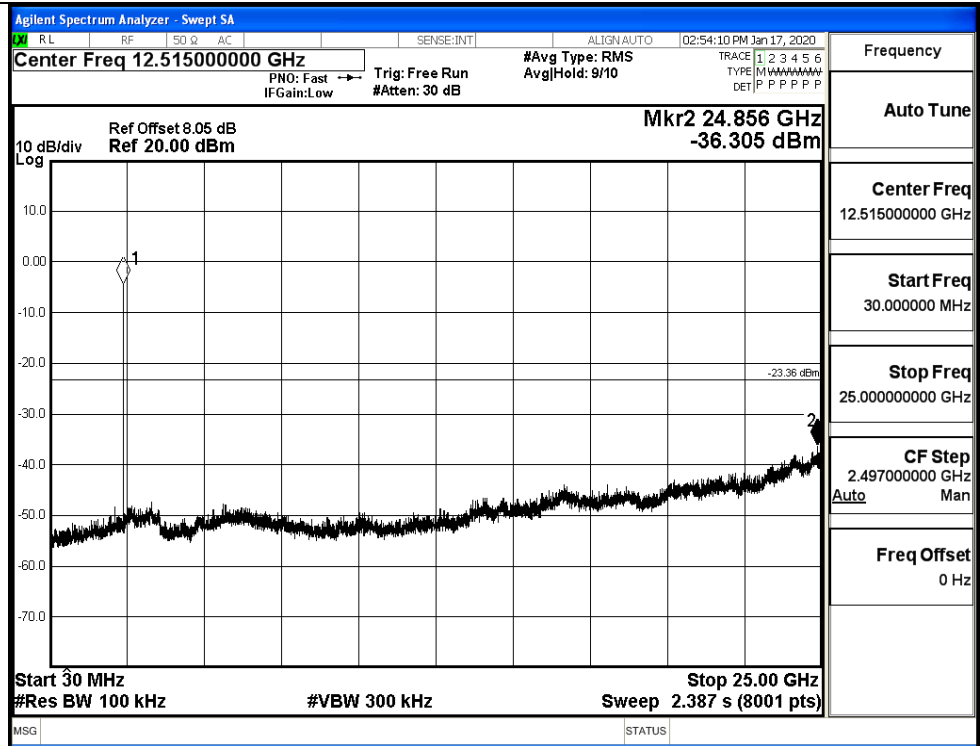


Frequency

Auto Tune

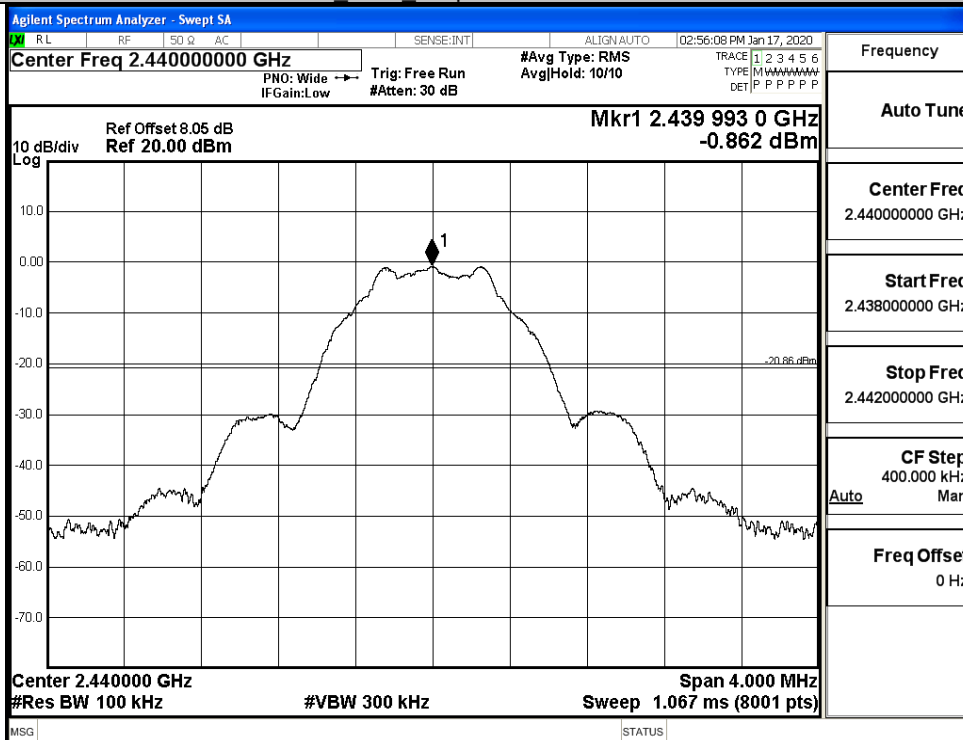
Center Freq
2.402000000 GHzStart Freq
2.400000000 GHzStop Freq
2.404000000 GHzCF Step
400.000 kHz
Auto ManFreq Offset
0 Hz

Puw/BT LE/LCH

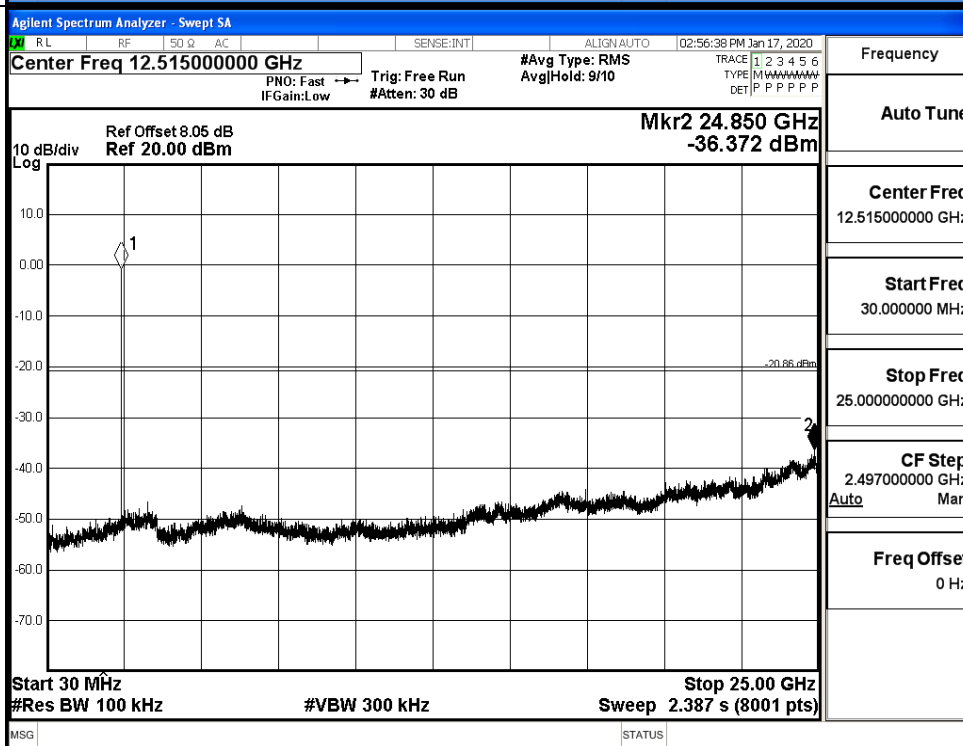


BT LE MCH Graphs

Pref/BT LE/MCH

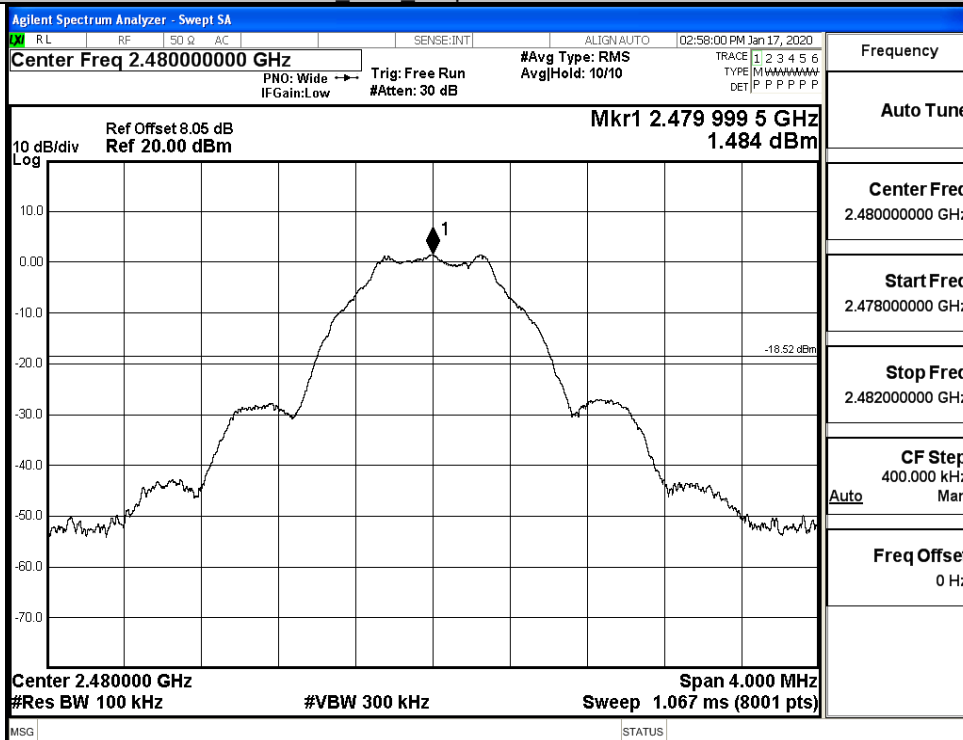


Puw/BT LE/MCH

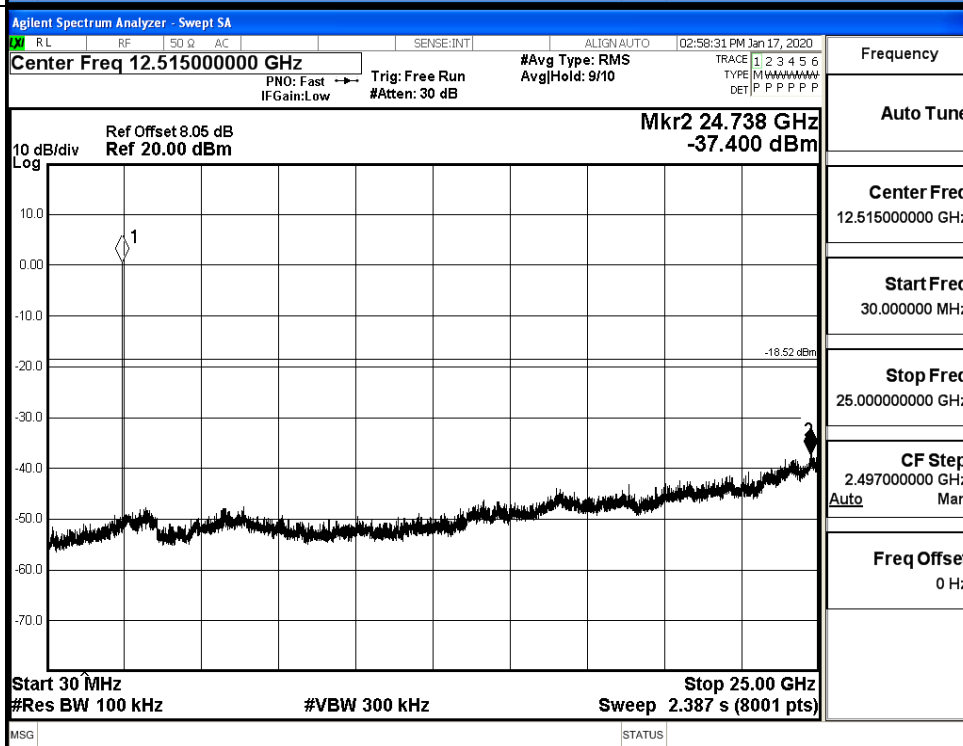


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

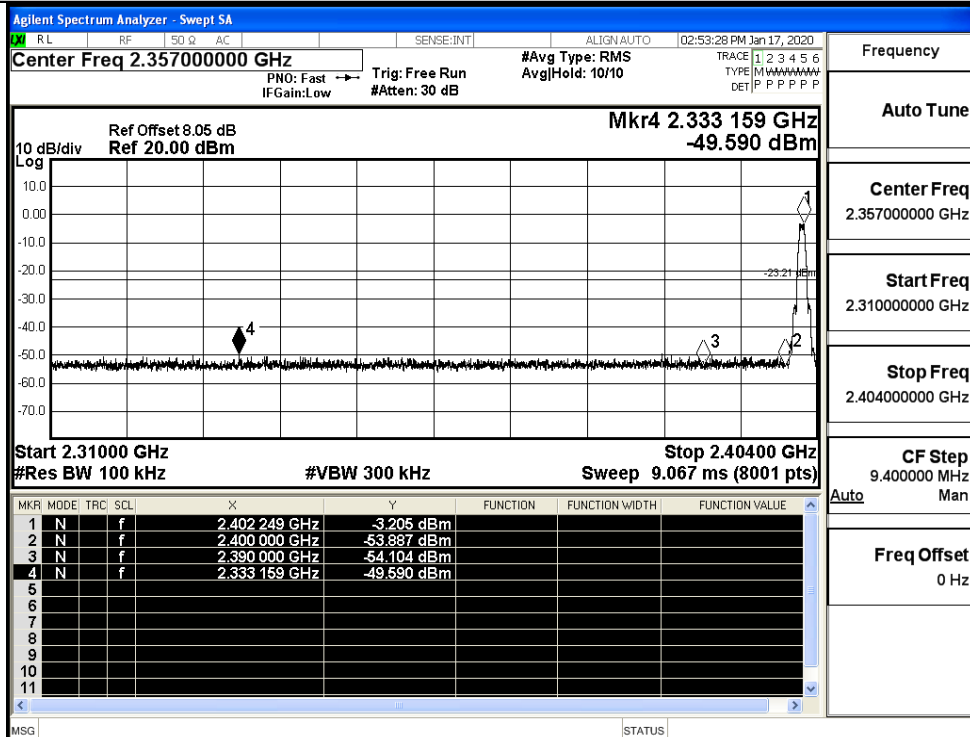


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.205	-49.590	-23.21	PASS
BT LE	HCH	1.648	-49.347	-18.35	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

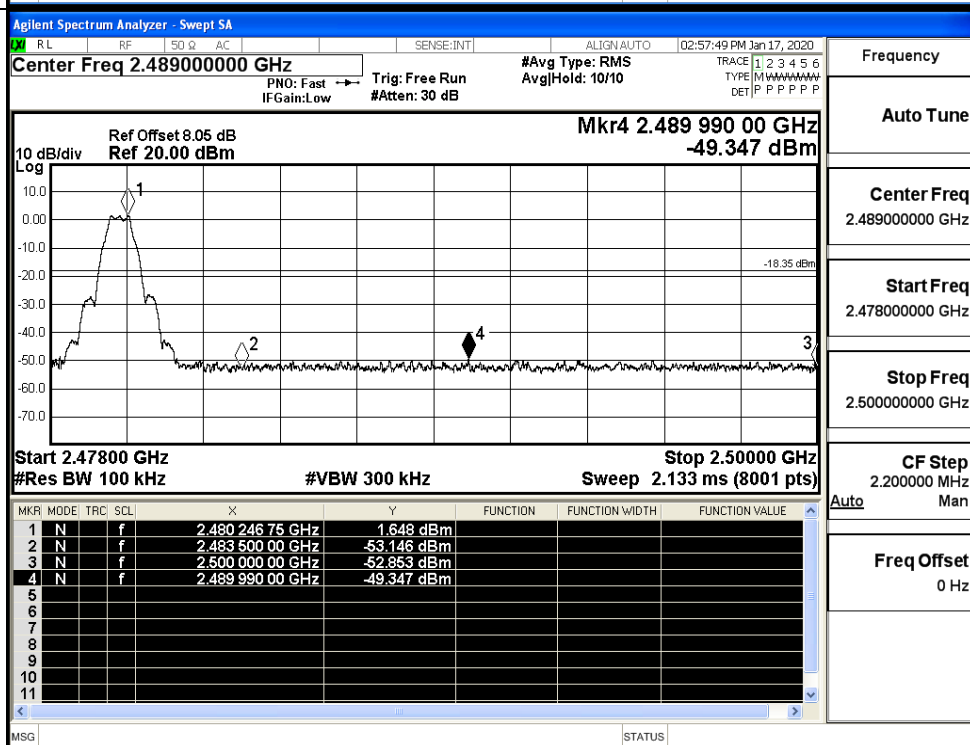
9.400000 MHz

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

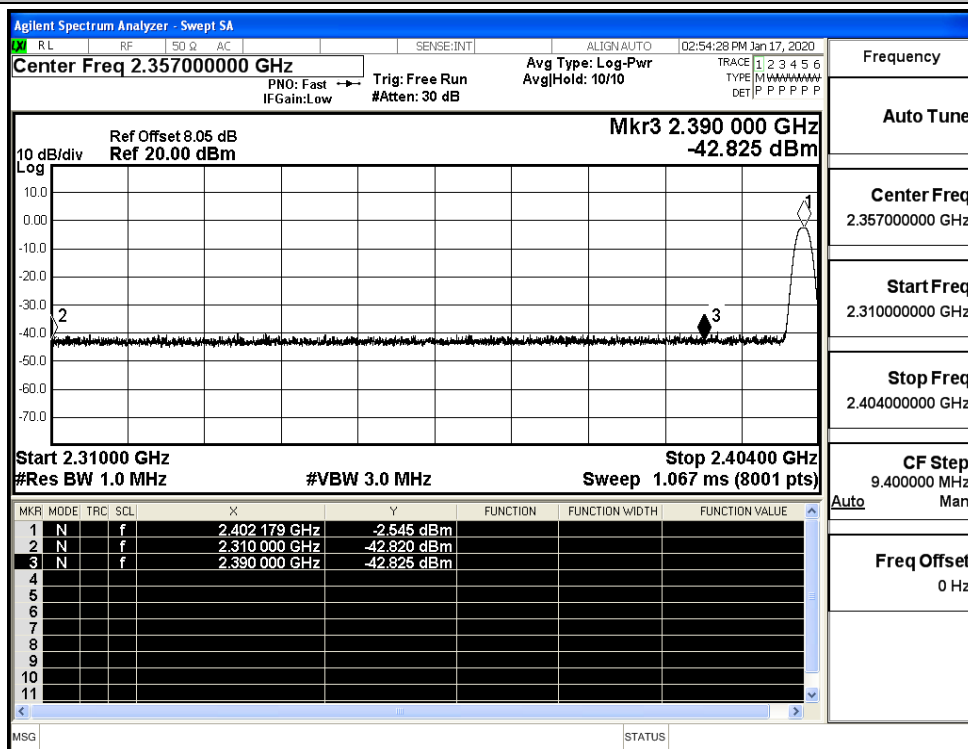
Freq Offset

0 Hz

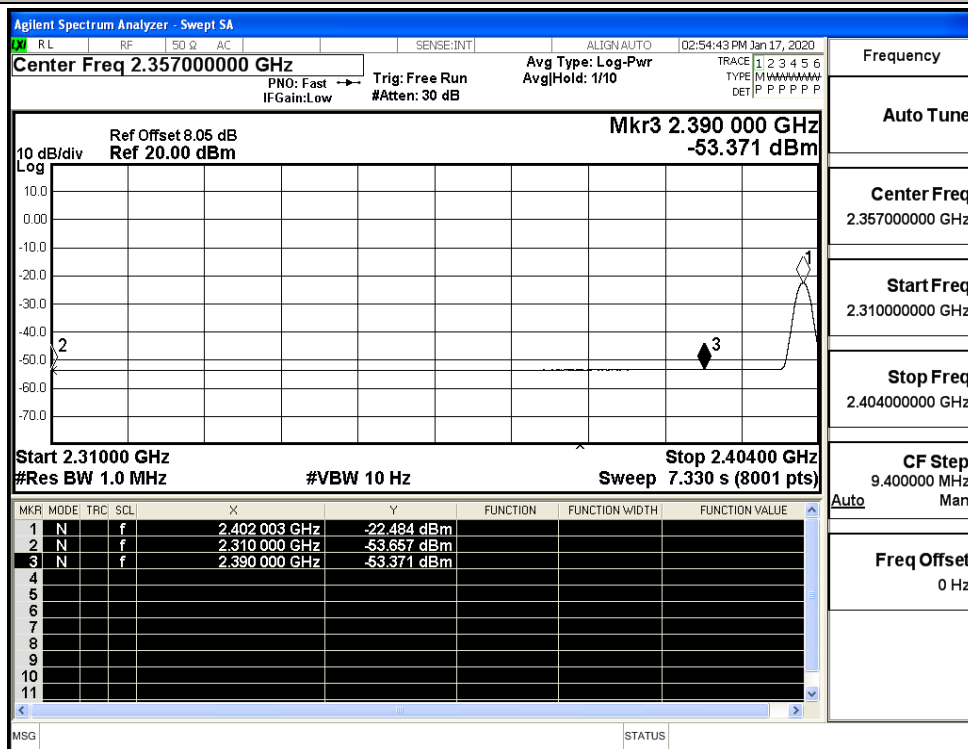
A.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-42.82	2.0	0	52.44	PEAK	74	PASS
		Ant1	2310.0	-53.66	2.0	0	41.60	AV	54	PASS
		Ant1	2390.0	-42.83	2.0	0	52.43	PEAK	74	PASS
		Ant1	2390.0	-53.37	2.0	0	41.89	AV	54	PASS
	2480	Ant1	2483.5	-42.05	2.0	0	53.21	PEAK	74	PASS
		Ant1	2483.5	-52.81	2.0	0	42.44	AV	54	PASS
		Ant1	2500.0	-41.97	2.0	0	53.29	PEAK	74	PASS
		Ant1	2500.0	-52.72	2.0	0	42.54	AV	54	PASS

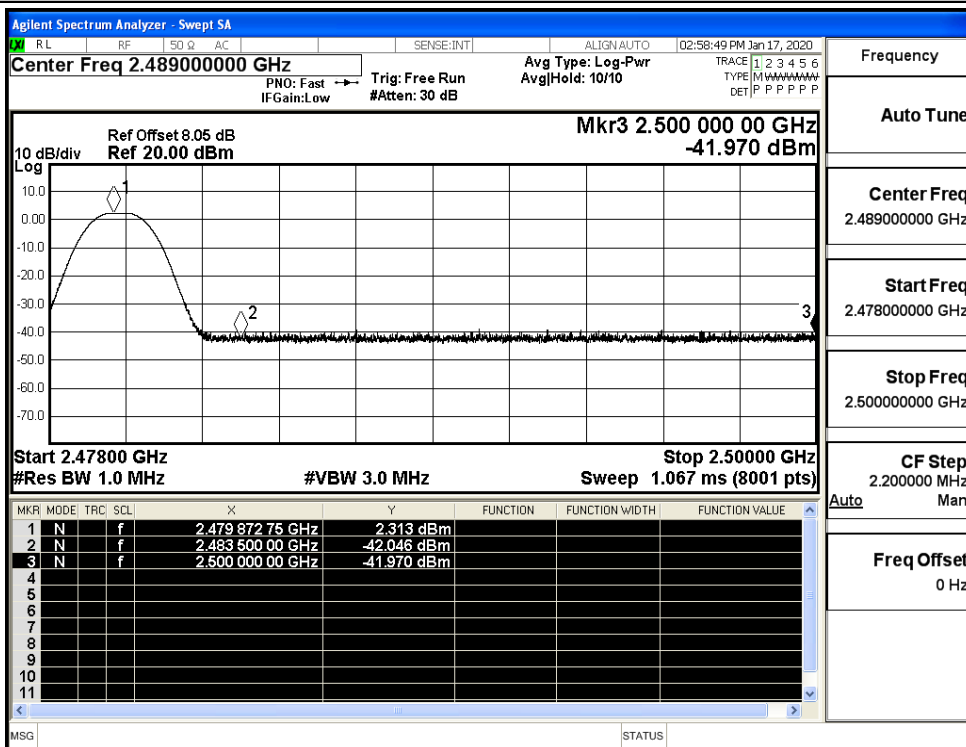
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

