

Appendix A

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

Product Name: C9T Bluetooth

Trade Mark: C9T

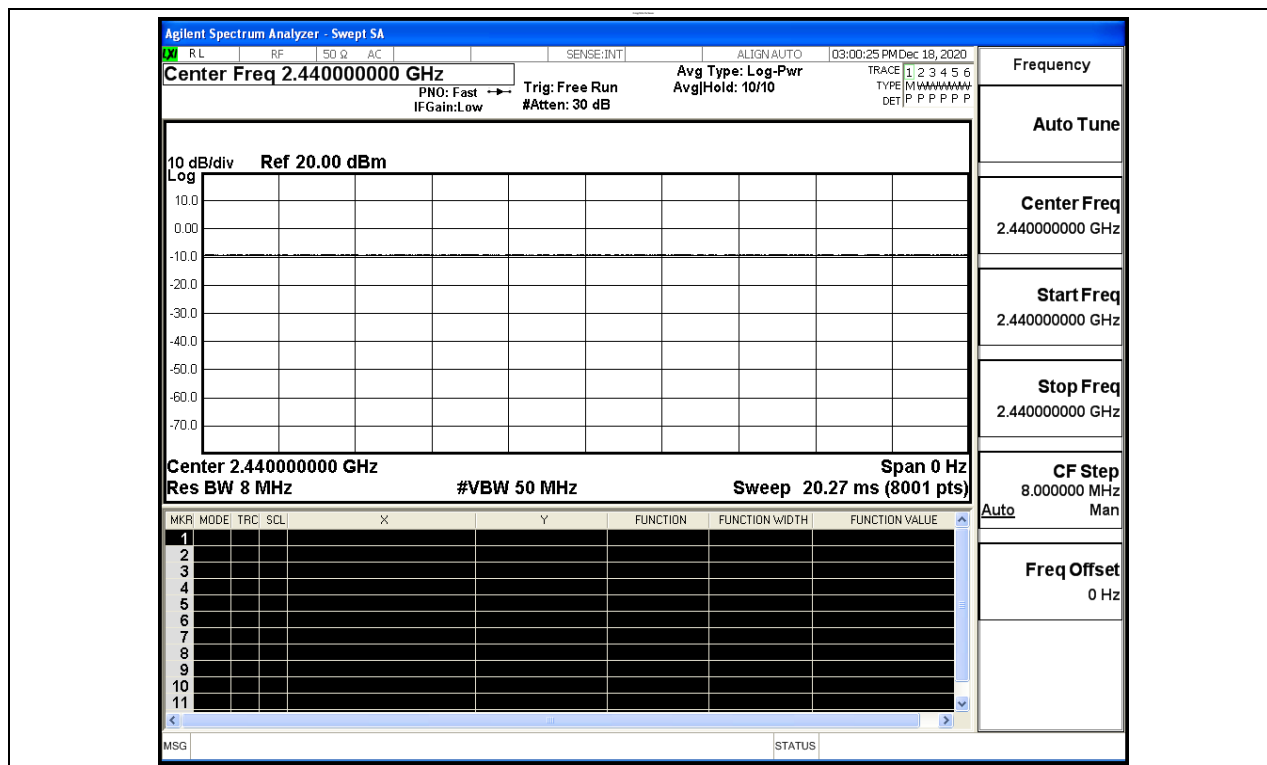
Test Model: C9TBT01

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

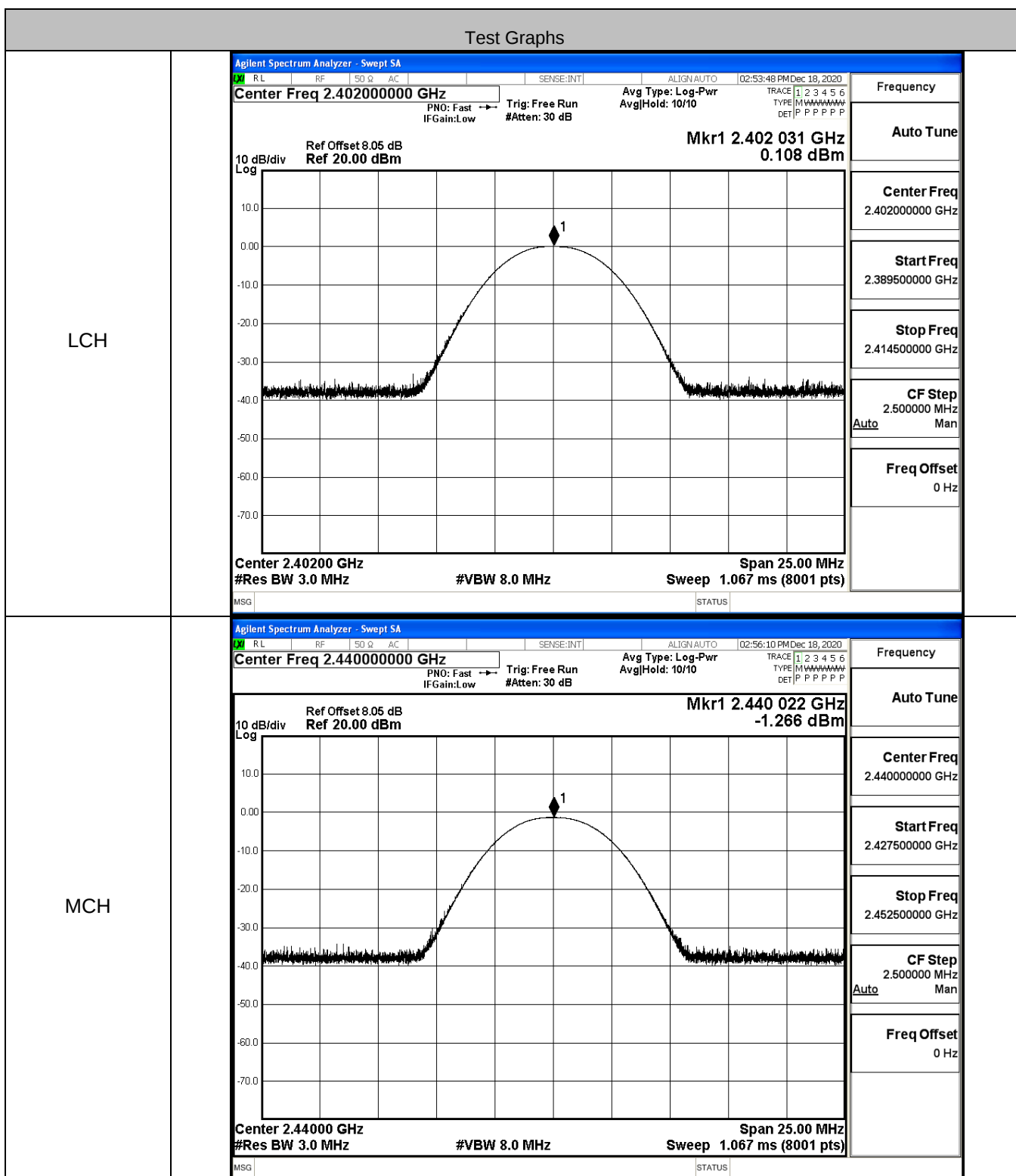
A.1 Duty Cycle

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

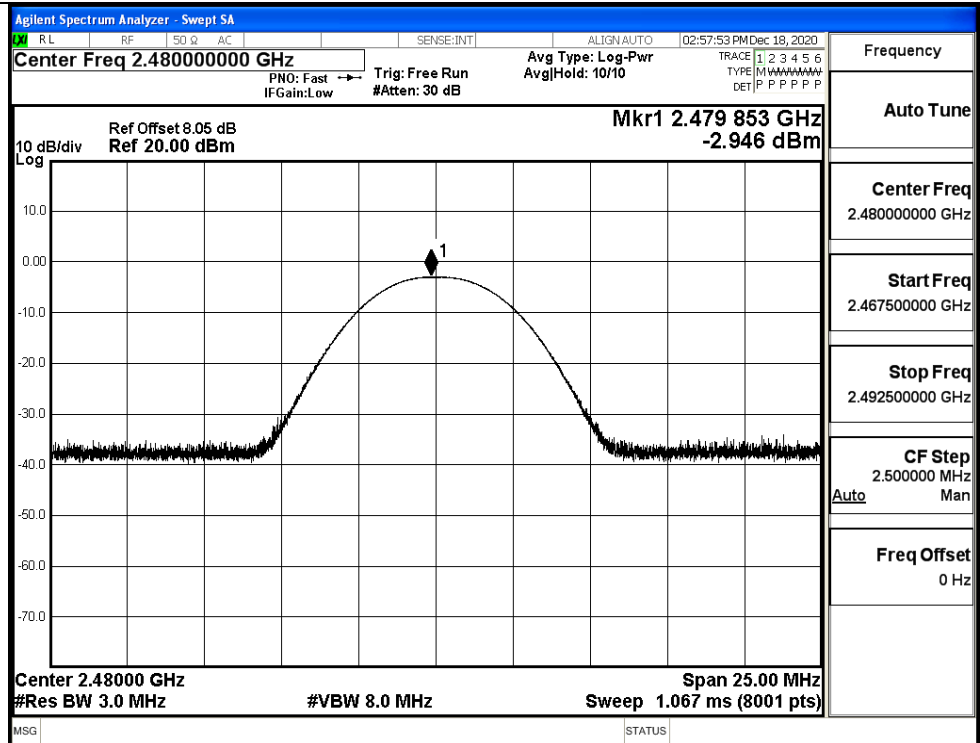


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.108	30	PASS
BT LE	MCH	-1.266	30	PASS
BT LE	HCH	-2.946	30	PASS



HCH

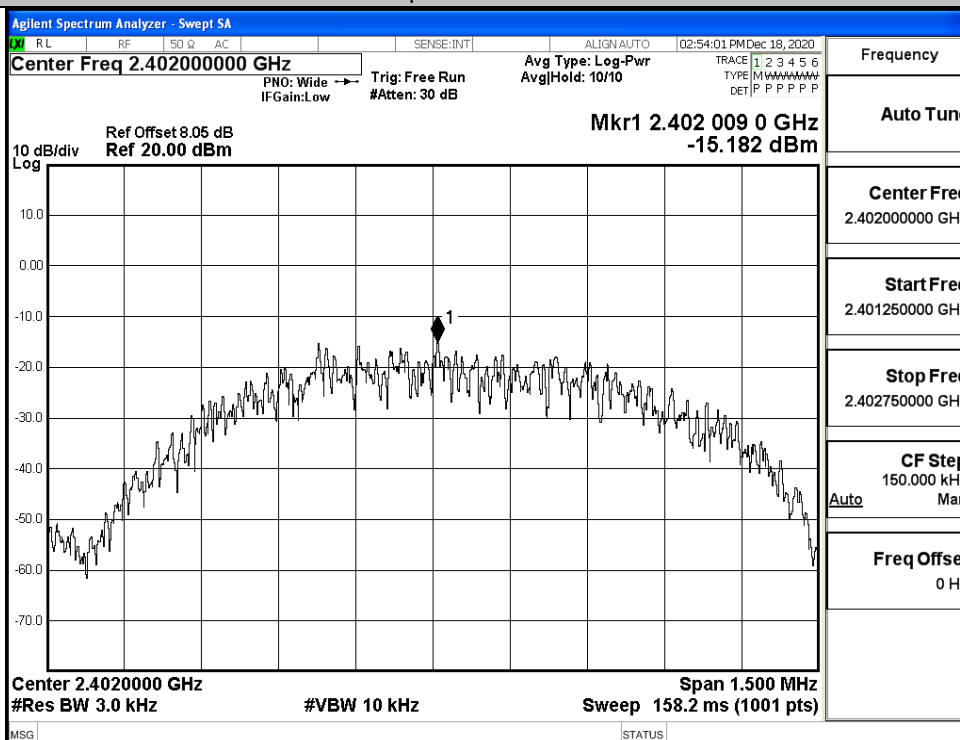


A.3 Maximum Power Spectral Density

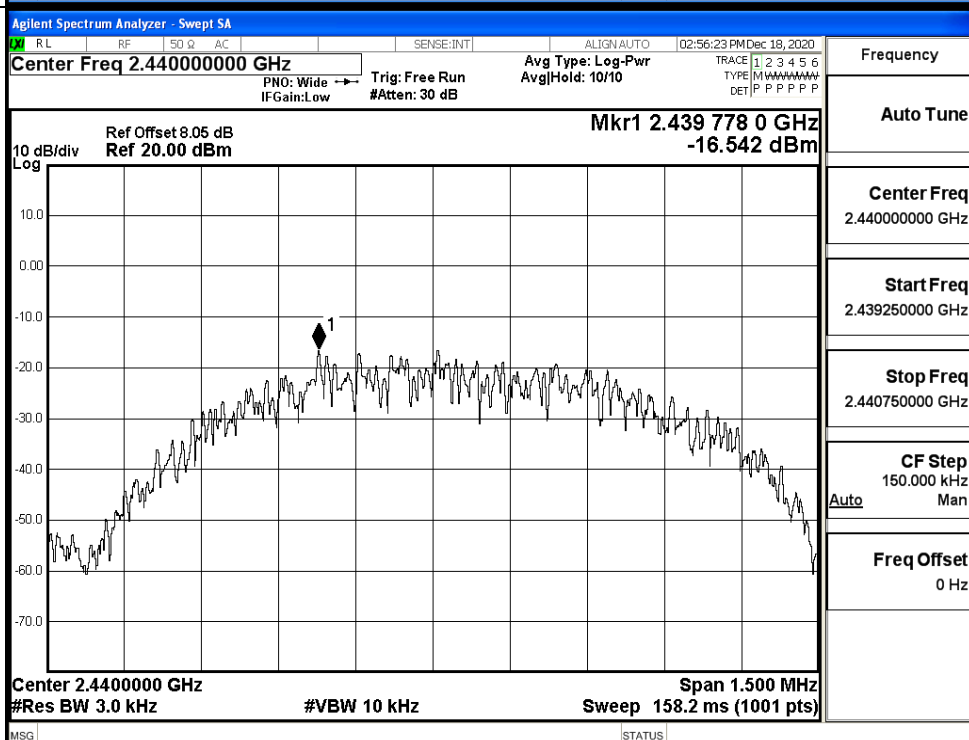
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.182	8	PASS
BT LE	MCH	-16.542	8	PASS
BT LE	HCH	-18.326	8	PASS

Test Graphs

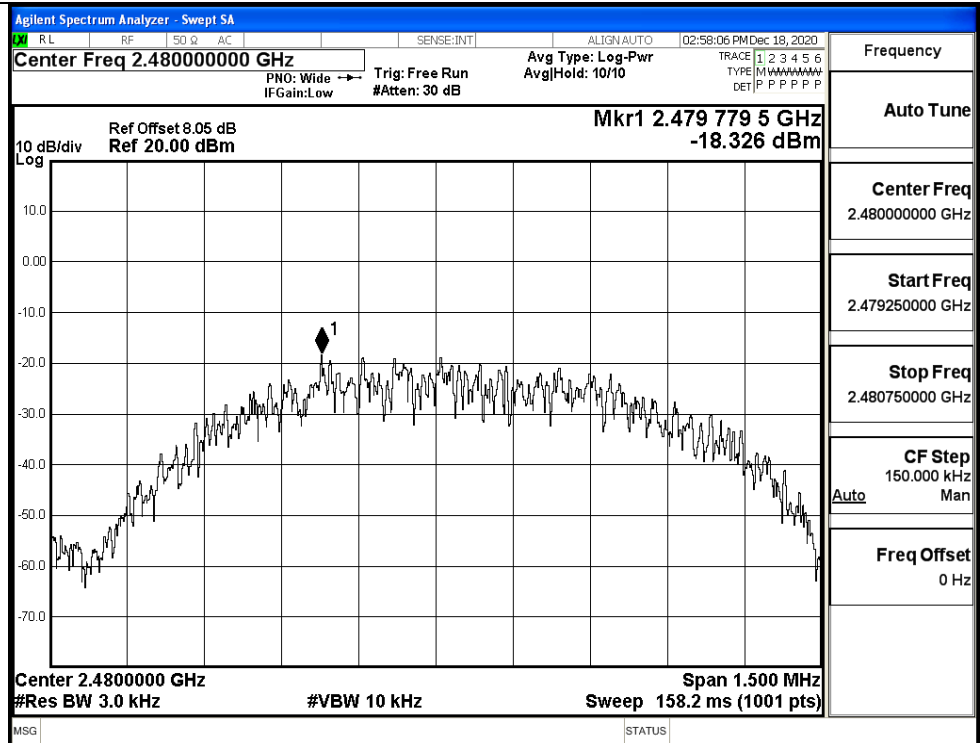
LCH



MCH



HCH

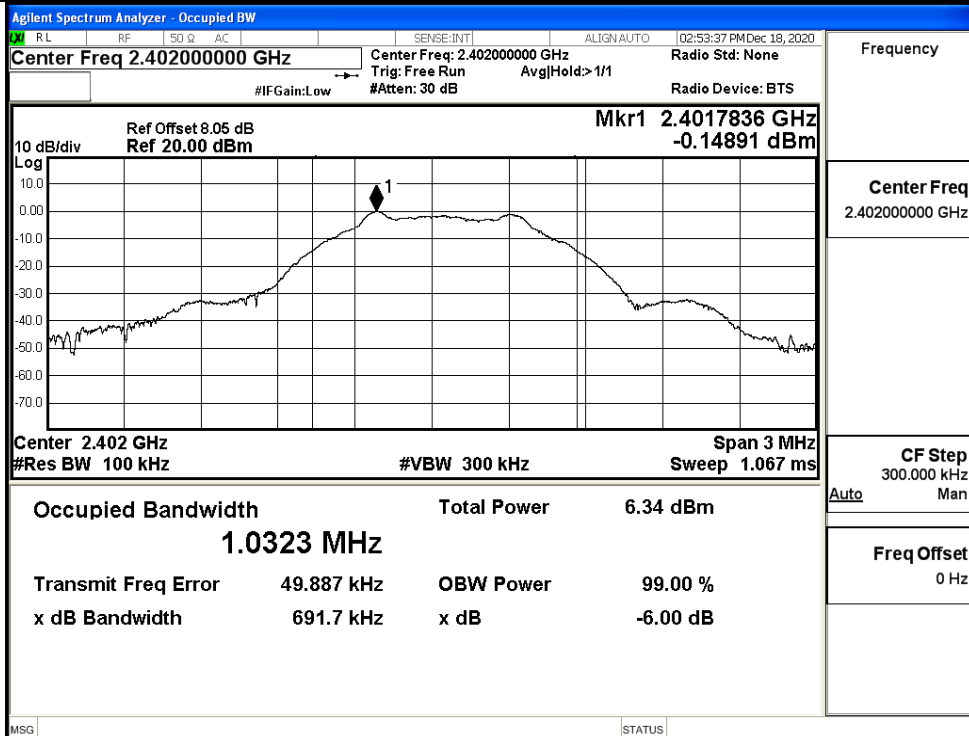


A.4 6dB Bandwidth

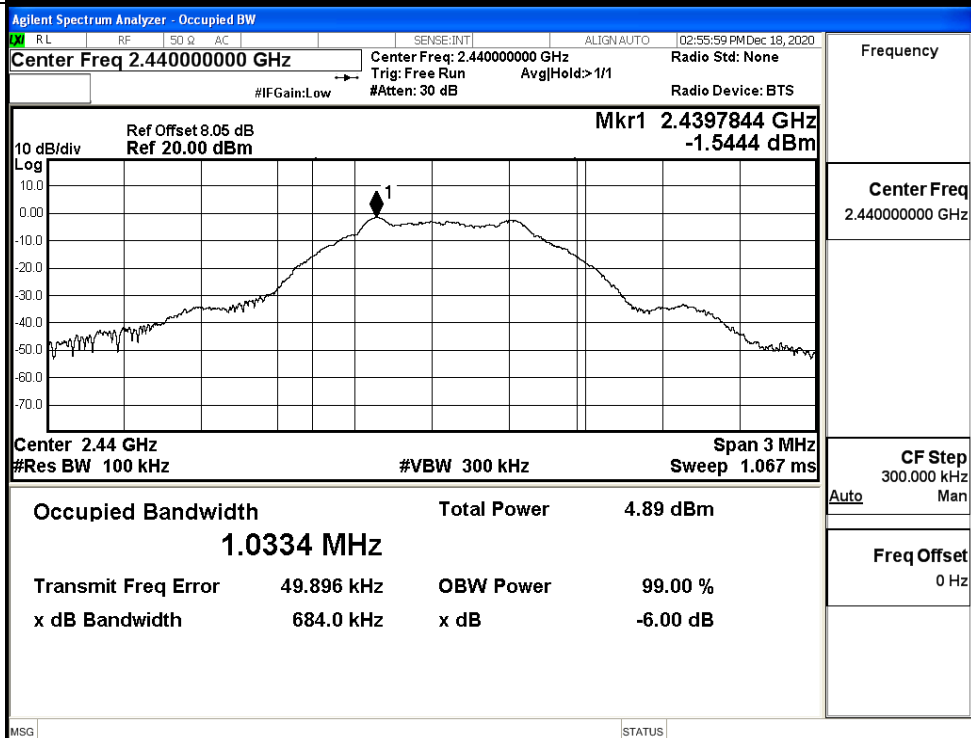
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6917	≥ 0.5	PASS
BT LE	MCH	0.6840	≥ 0.5	PASS
BT LE	HCH	0.6948	≥ 0.5	PASS

Test Graphs

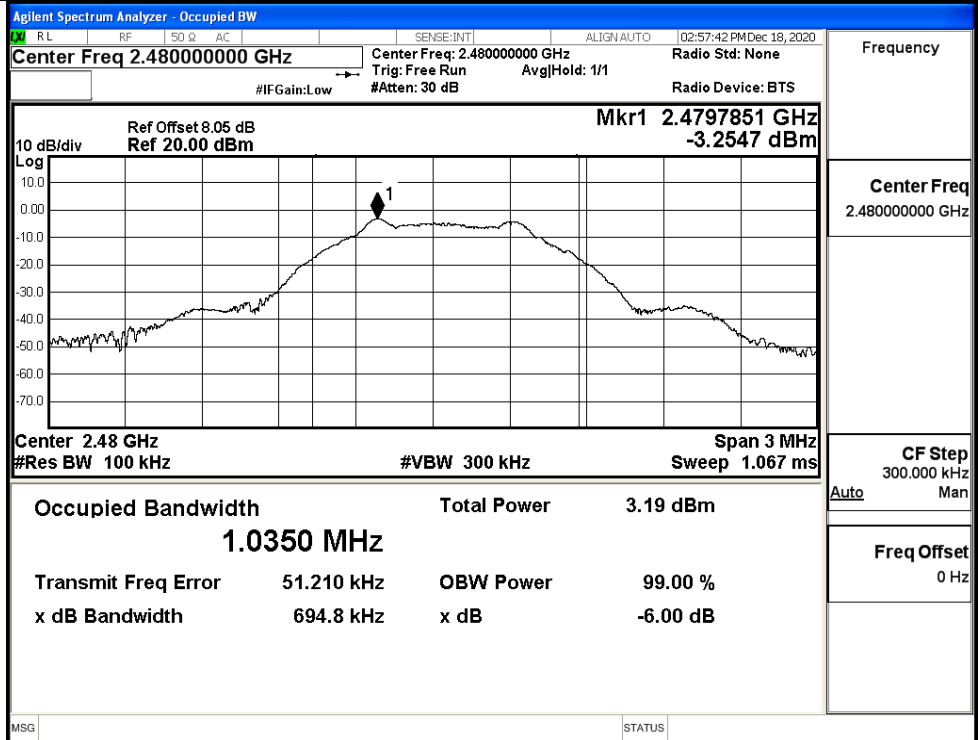
LCH



MCH



HCH

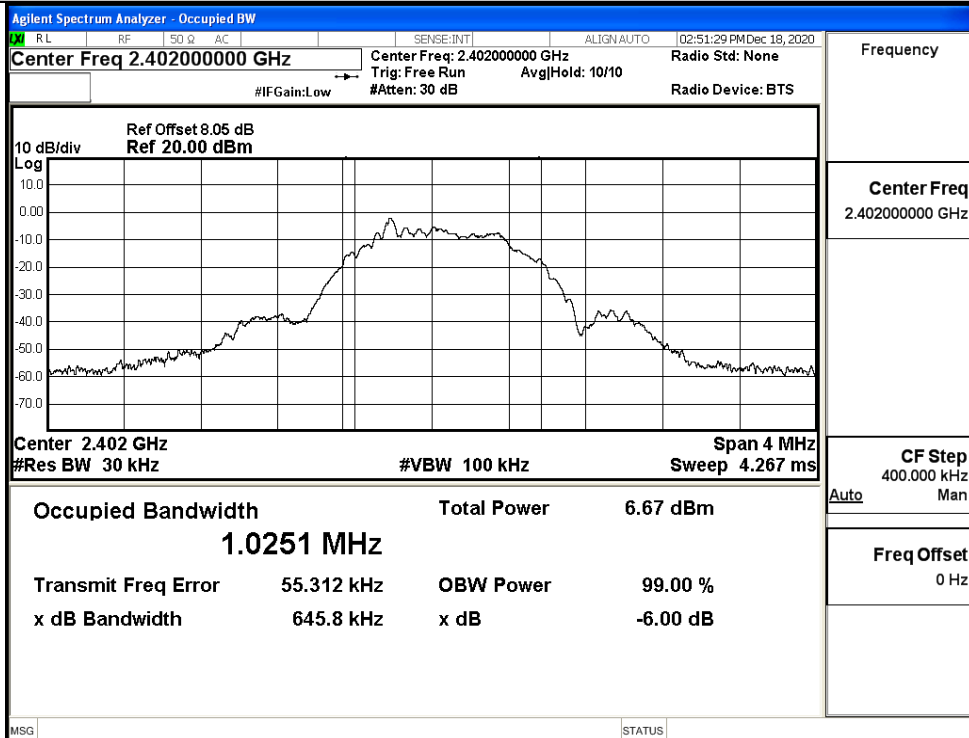


A.5 Occupied Bandwidth

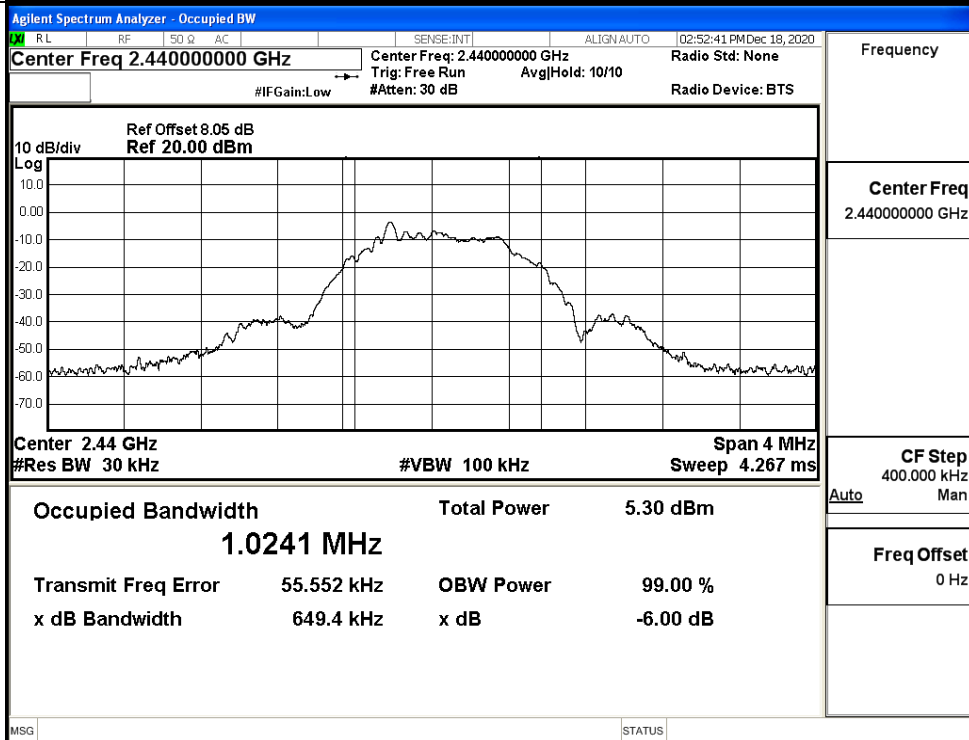
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0251	≥ 0.5	PASS
BT LE	MCH	1.0241	≥ 0.5	PASS
BT LE	HCH	1.0230	≥ 0.5	PASS

Test Graphs

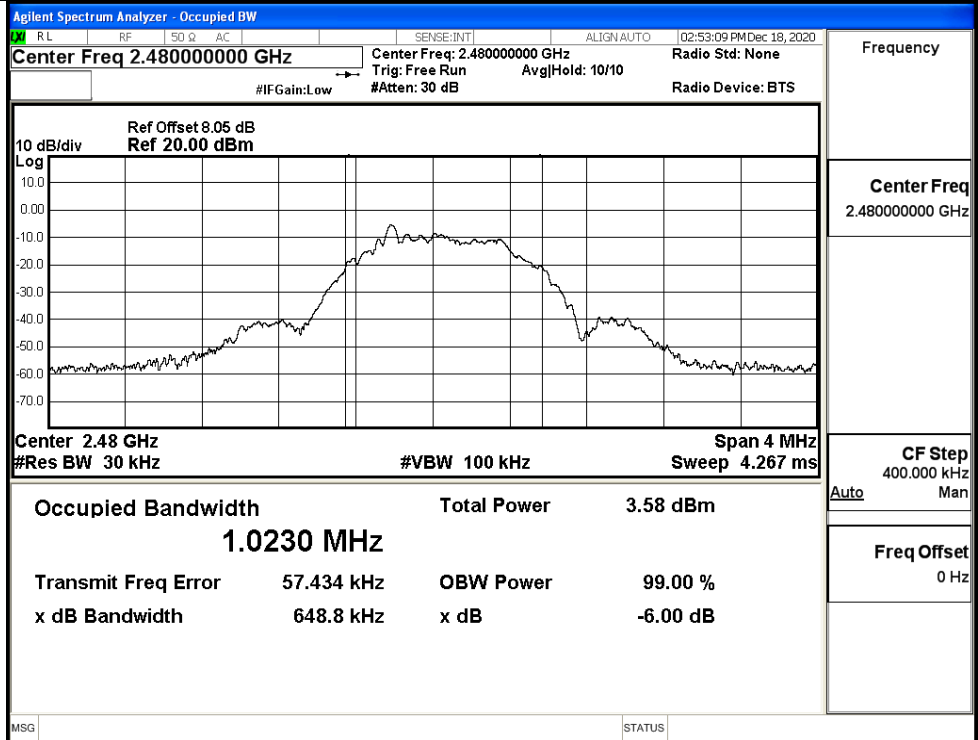
LCH



MCH



HCH

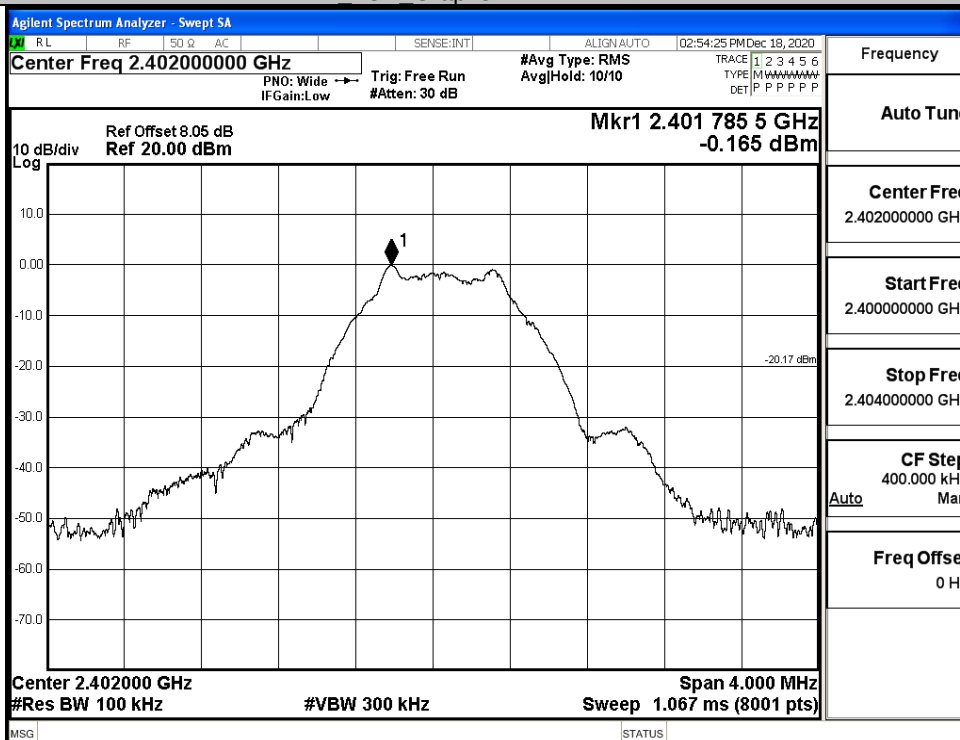


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.165	-37.153	-20.165	PASS
BT LE	MCH	-1.567	-36.341	-21.567	PASS
BT LE	HCH	-3.256	-36.305	-23.256	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

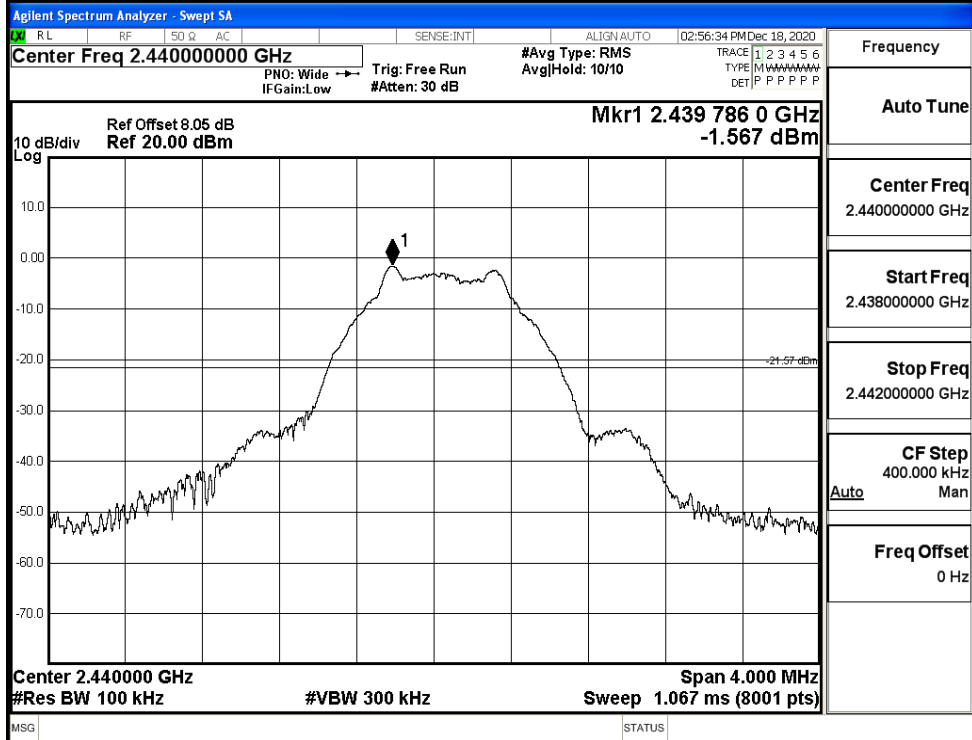


Puw/BT LE/LCH

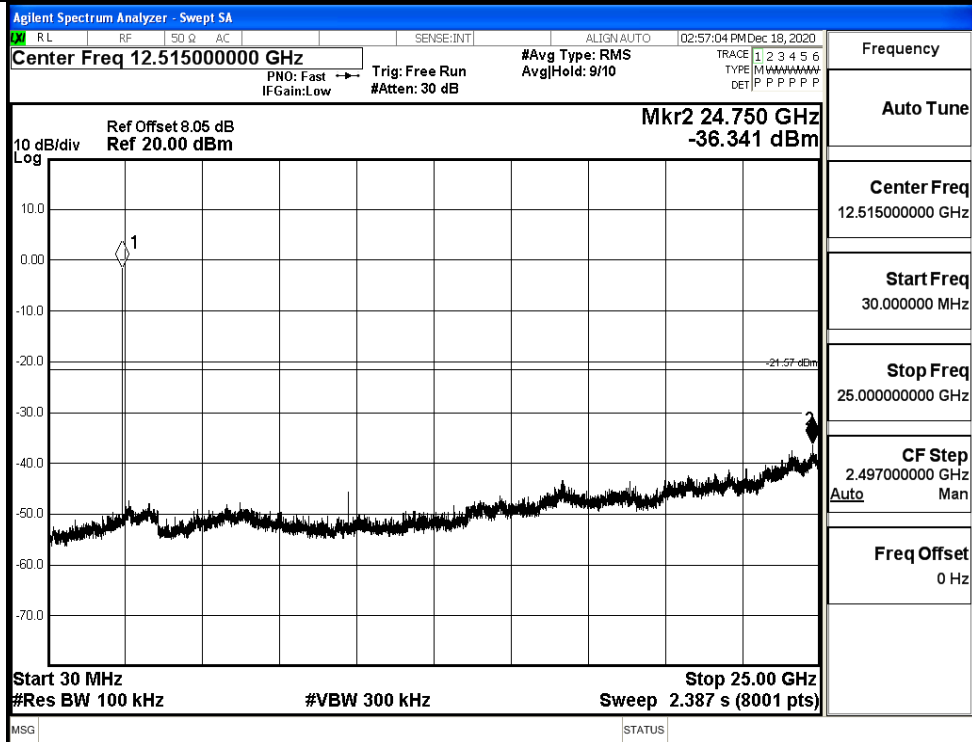


BT LE MCH Graphs

Pref/BT LE/MCH

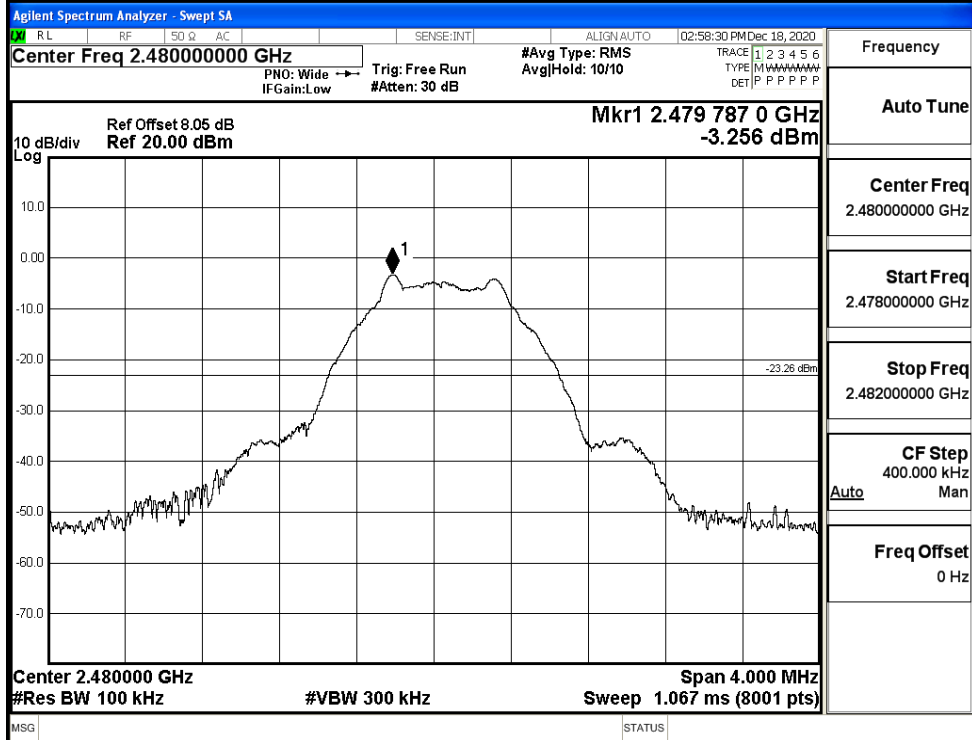


Puw/BT LE/MCH

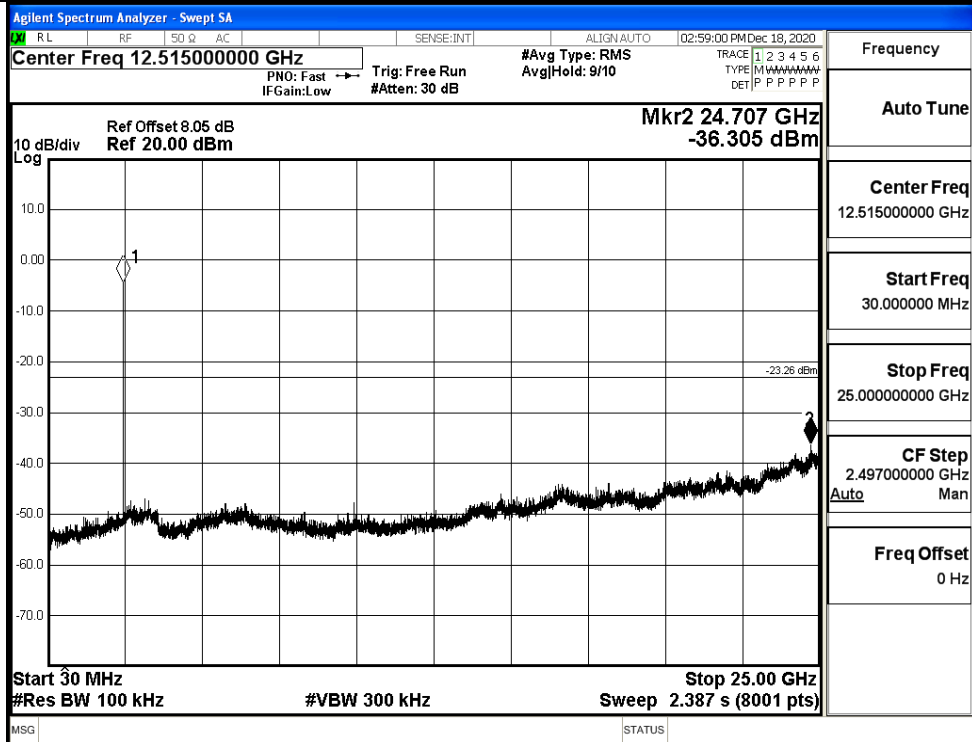


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

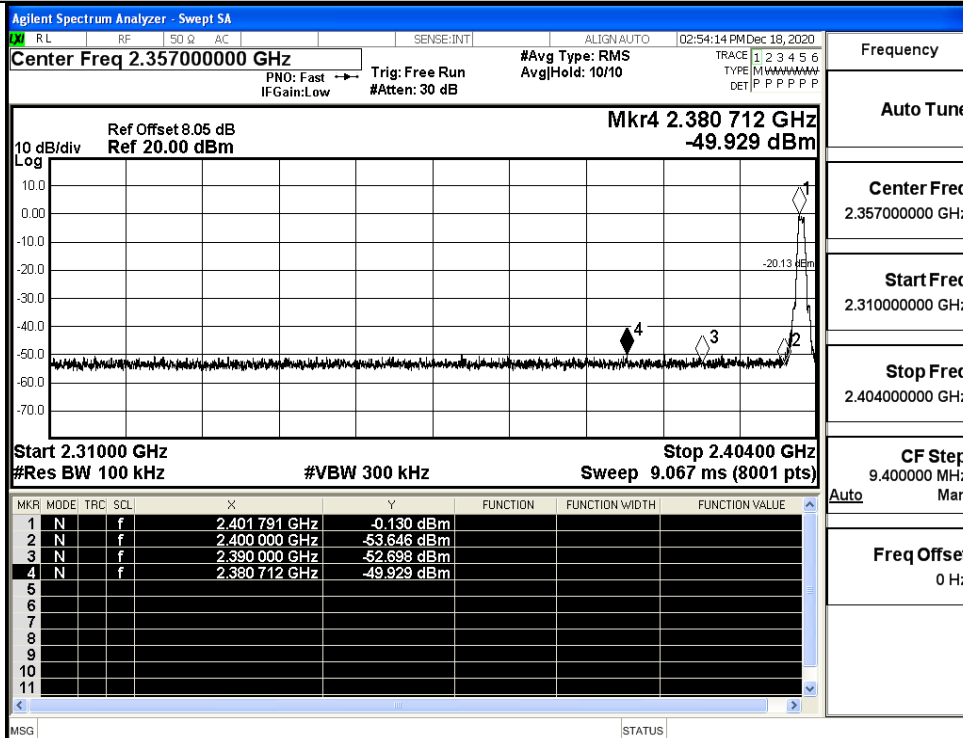


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.130	-49.929	-20.13	PASS
BT LE	HCH	-3.278	-49.470	-23.28	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

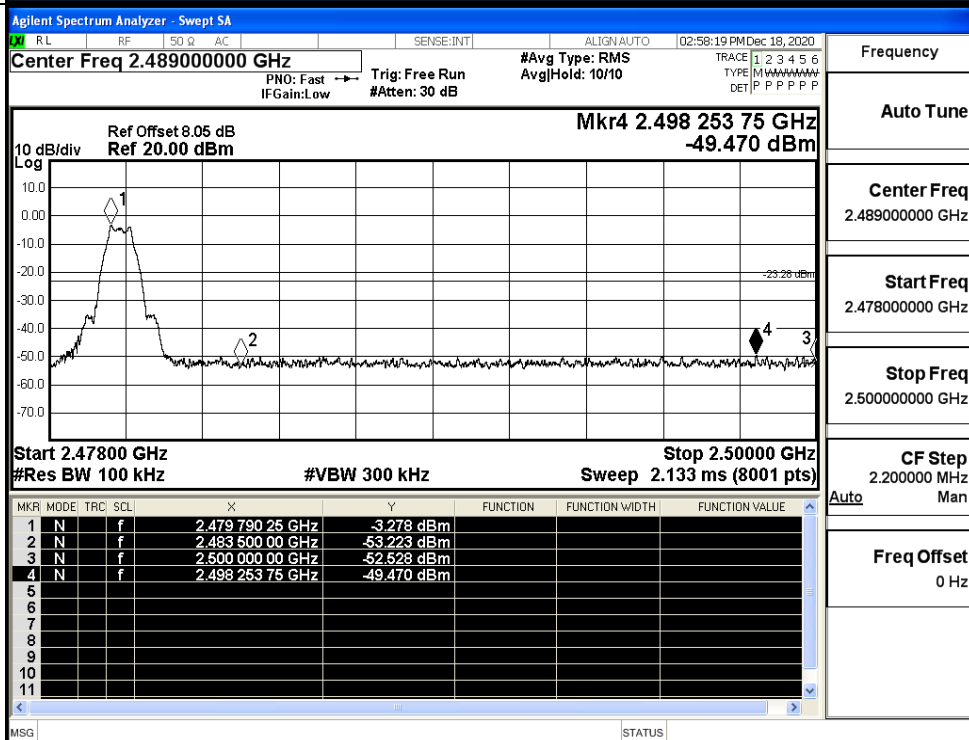
9.400000 MHz

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

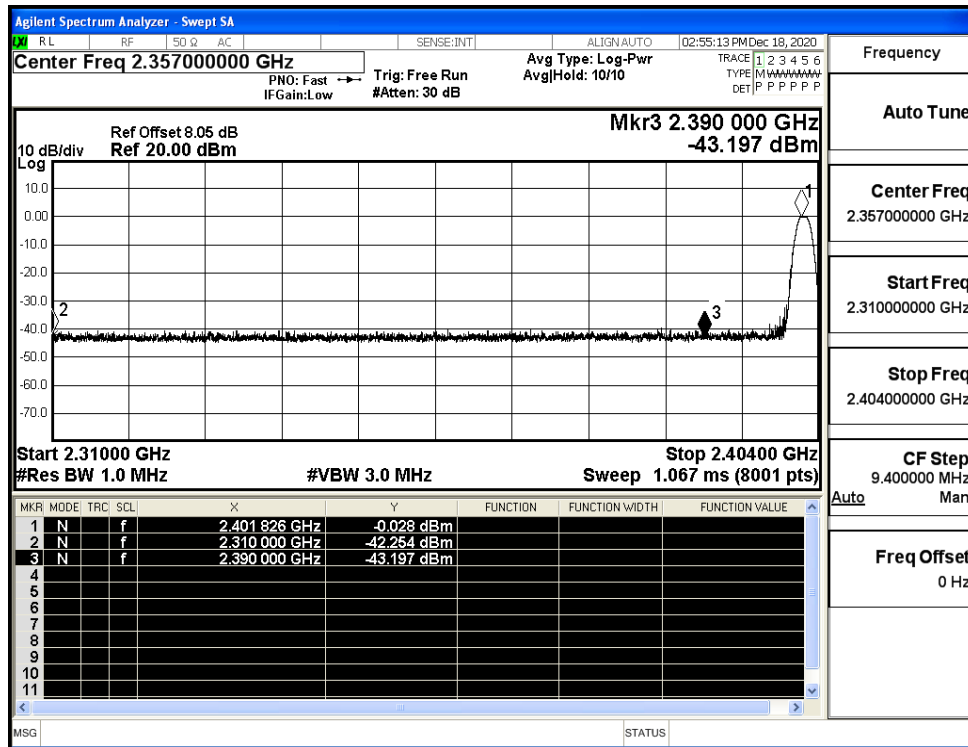
Freq Offset

0 Hz

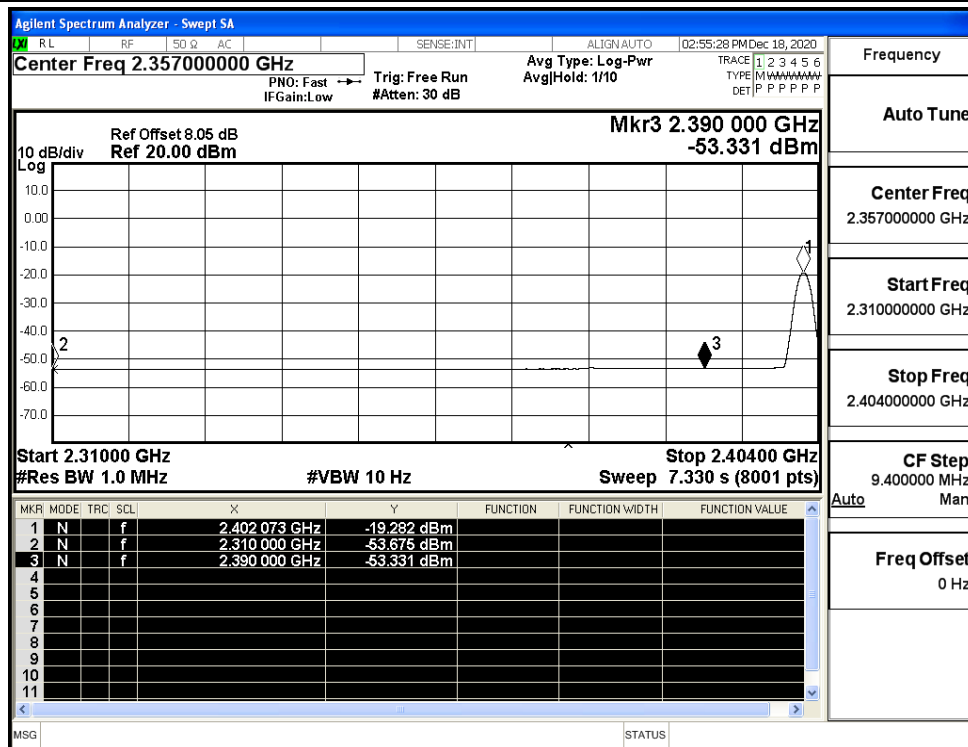
A.8 Restrict-band band-edge measurements

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	-42.25	2.0	0	53.00	PEAK	74	PASS
		Ant1	2310.0	-53.68	2.0	0	41.58	AV	54	PASS
		Ant1	2390.0	-43.20	2.0	0	52.06	PEAK	74	PASS
		Ant1	2390.0	-53.33	2.0	0	41.93	AV	54	PASS
	2480	Ant1	2483.5	-43.03	2.0	0	52.23	PEAK	74	PASS
		Ant1	2483.5	-52.88	2.0	0	42.38	AV	54	PASS
		Ant1	2500.0	-42.96	2.0	0	52.30	PEAK	74	PASS
		Ant1	2500.0	-52.72	2.0	0	42.54	AV	54	PASS

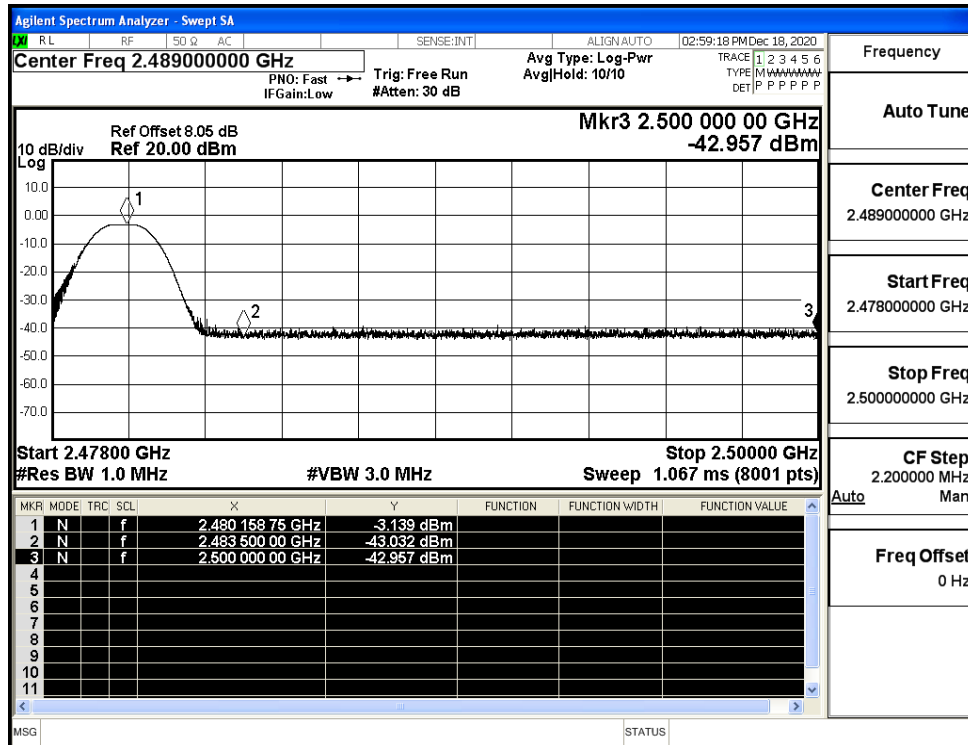
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

