

Appendix B

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

Product Name: LED Tape with Smart Controller

Trade Mark: GleamBeam

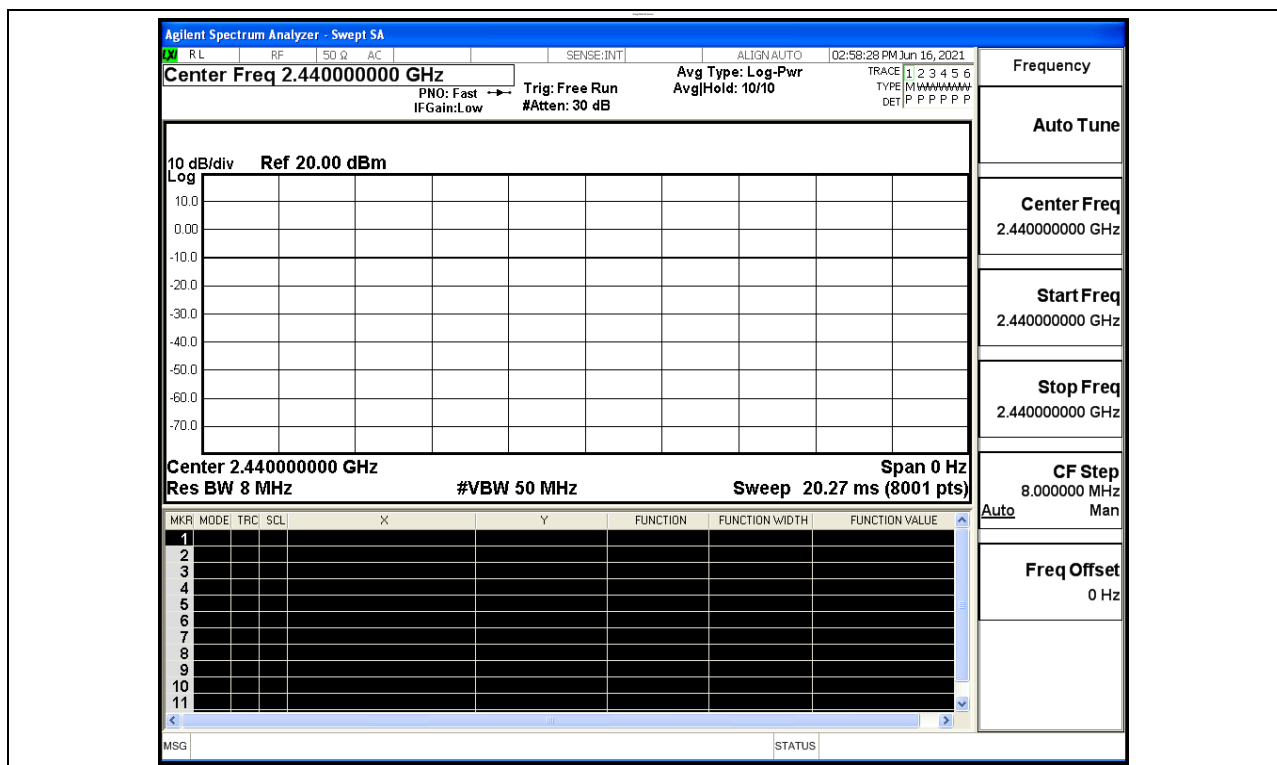
Test Model: 30618

Environmental Conditions

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

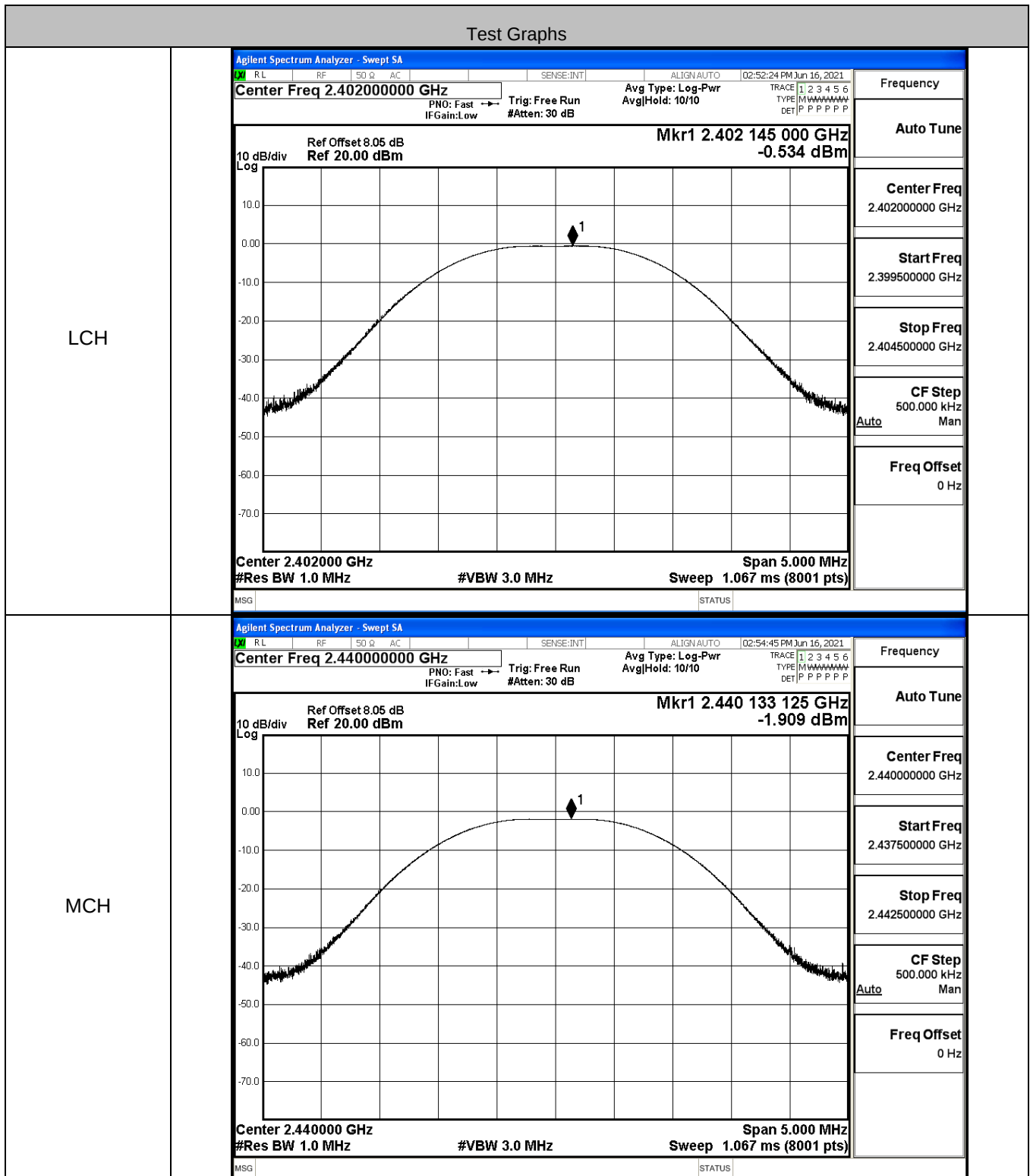
B.1 Duty Cycle

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

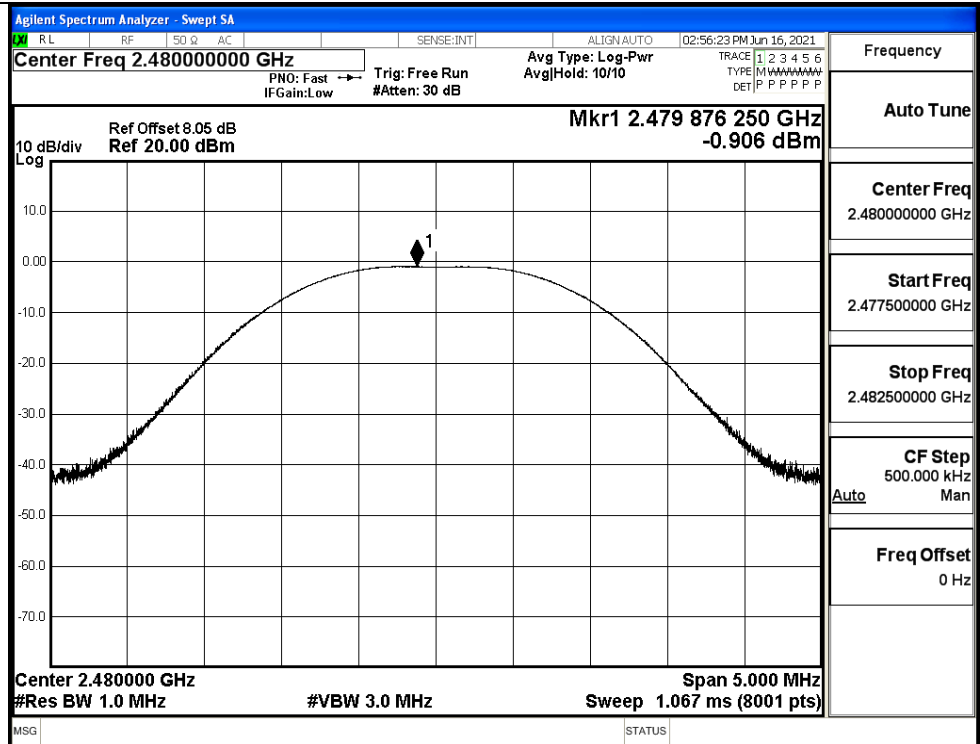


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.534	30	PASS
BT LE	MCH	-1.909	30	PASS
BT LE	HCH	-0.906	30	PASS



HCH

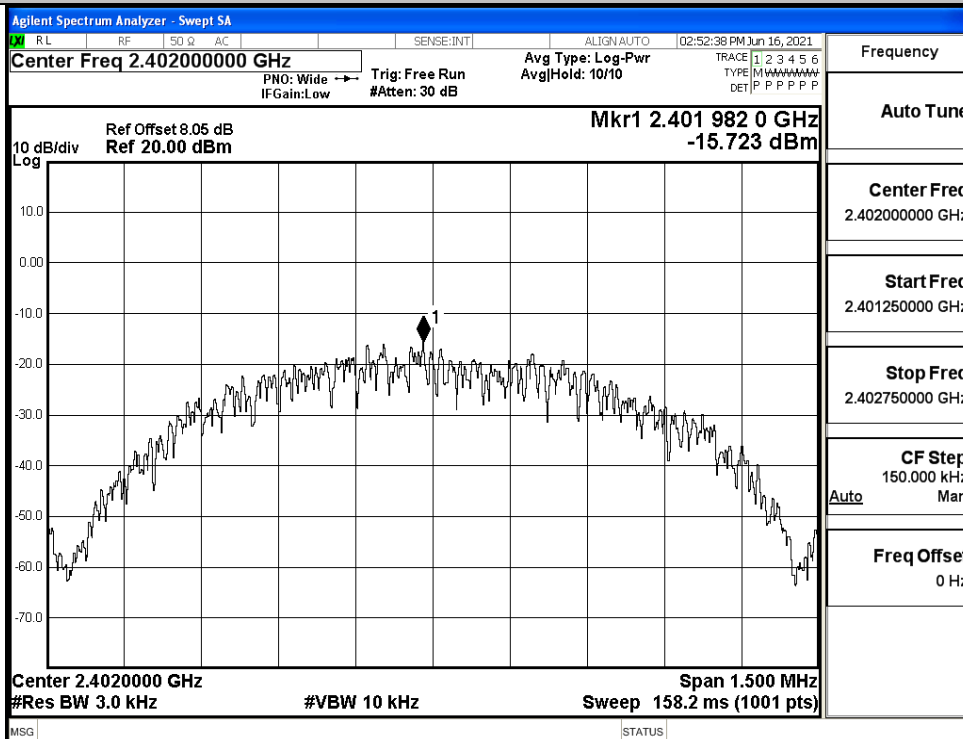


B.3 Maximum Power Spectral Density

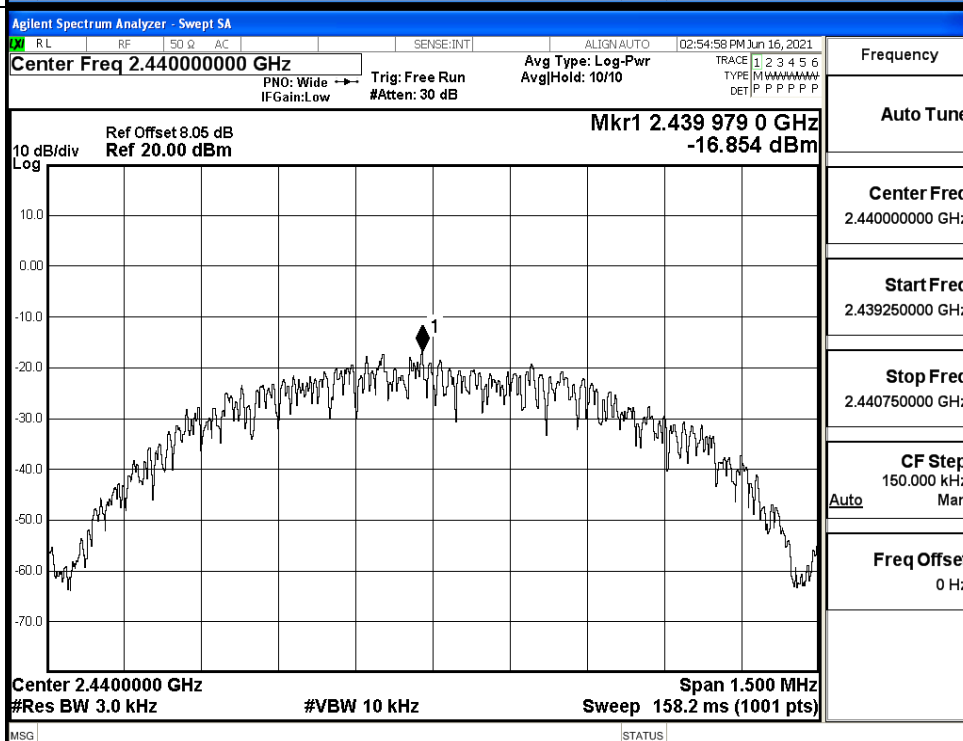
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.723	8	PASS
BT LE	MCH	-16.854	8	PASS
BT LE	HCH	-16.049	8	PASS

Test Graphs

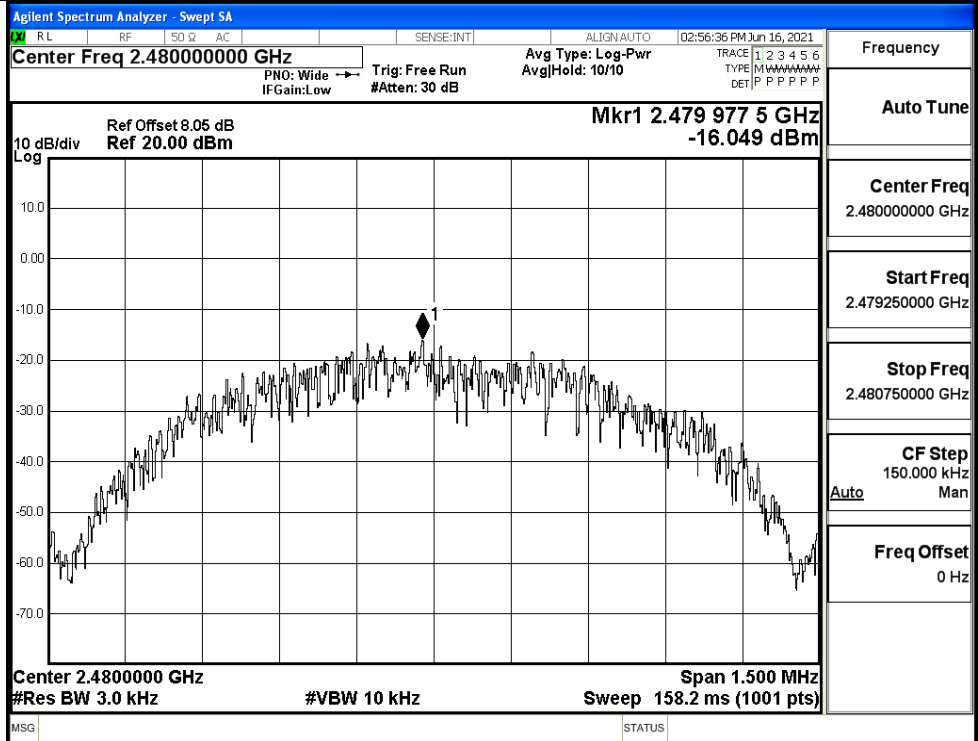
LCH



MCH



HCH

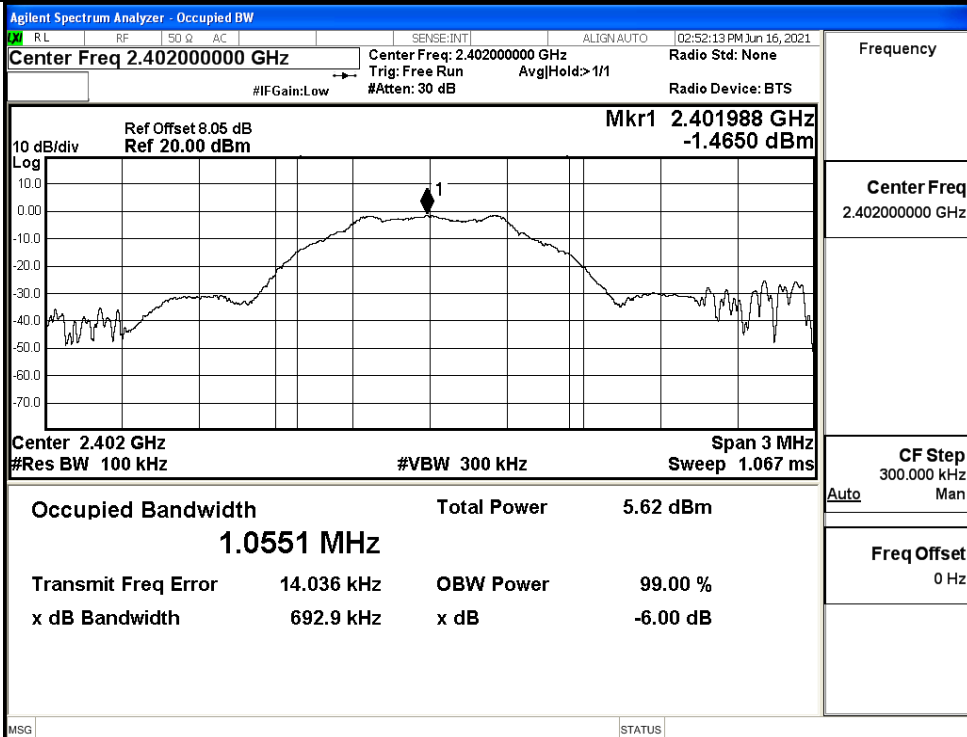


B.4 6dB Bandwidth

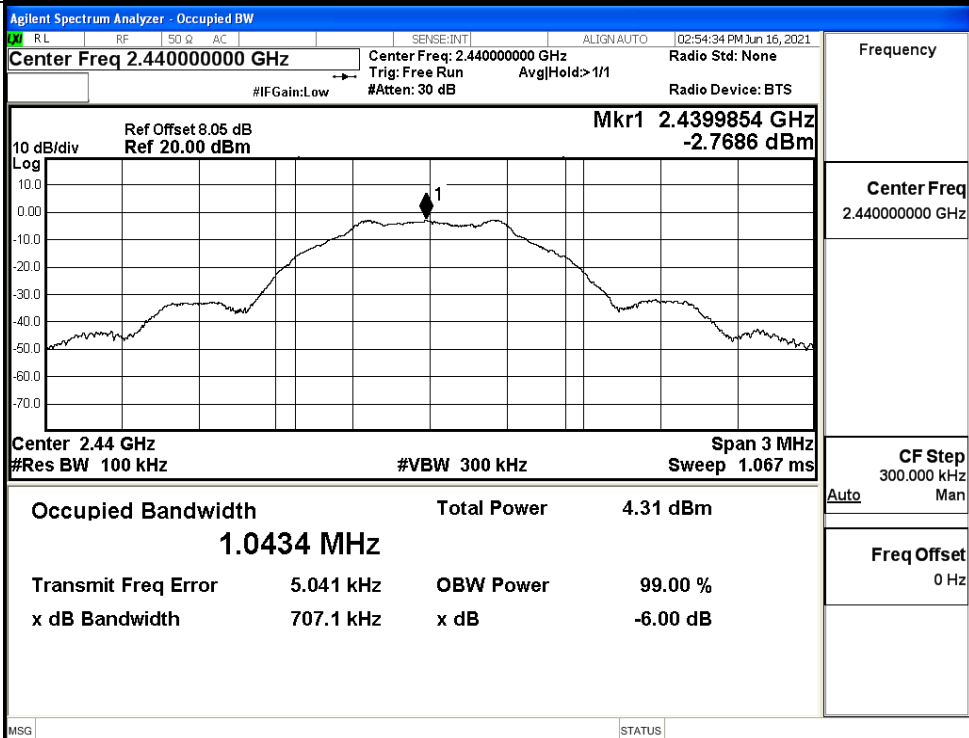
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6929	≥ 0.5	PASS
BT LE	MCH	0.7071	≥ 0.5	PASS
BT LE	HCH	0.7041	≥ 0.5	PASS

Test Graphs

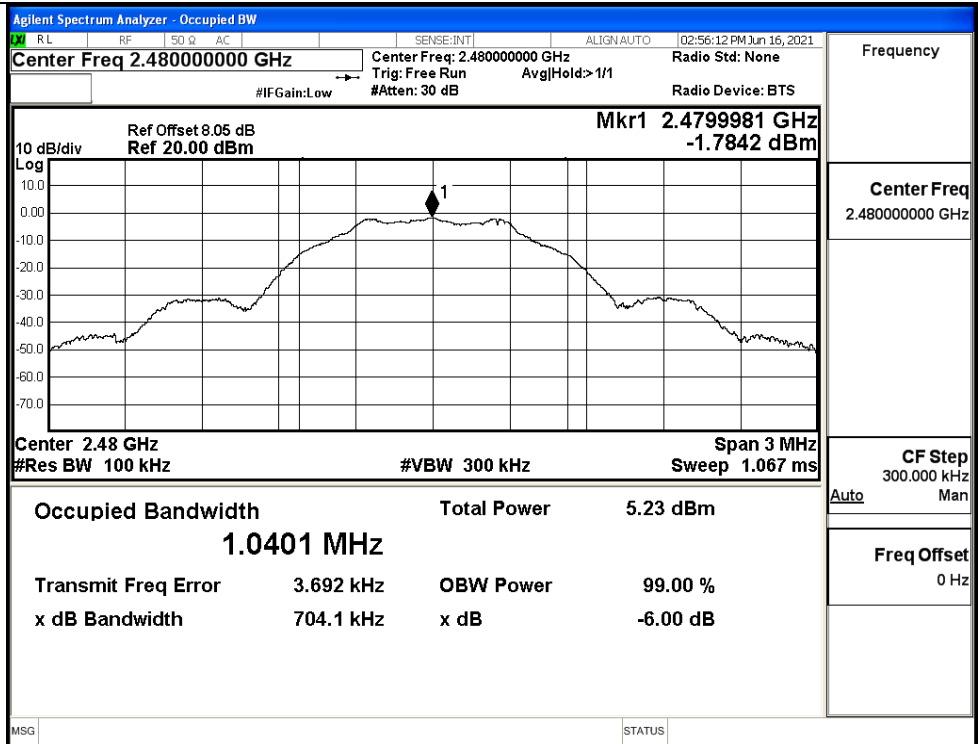
LCH



MCH



HCH

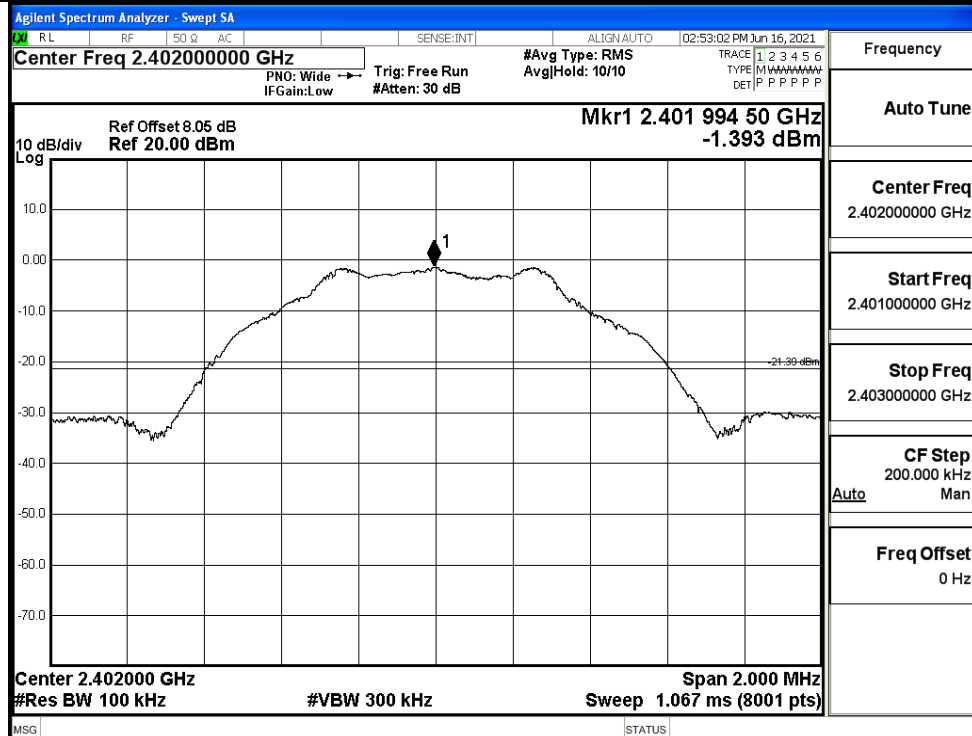


B.5 RF Conducted Spurious Emissions

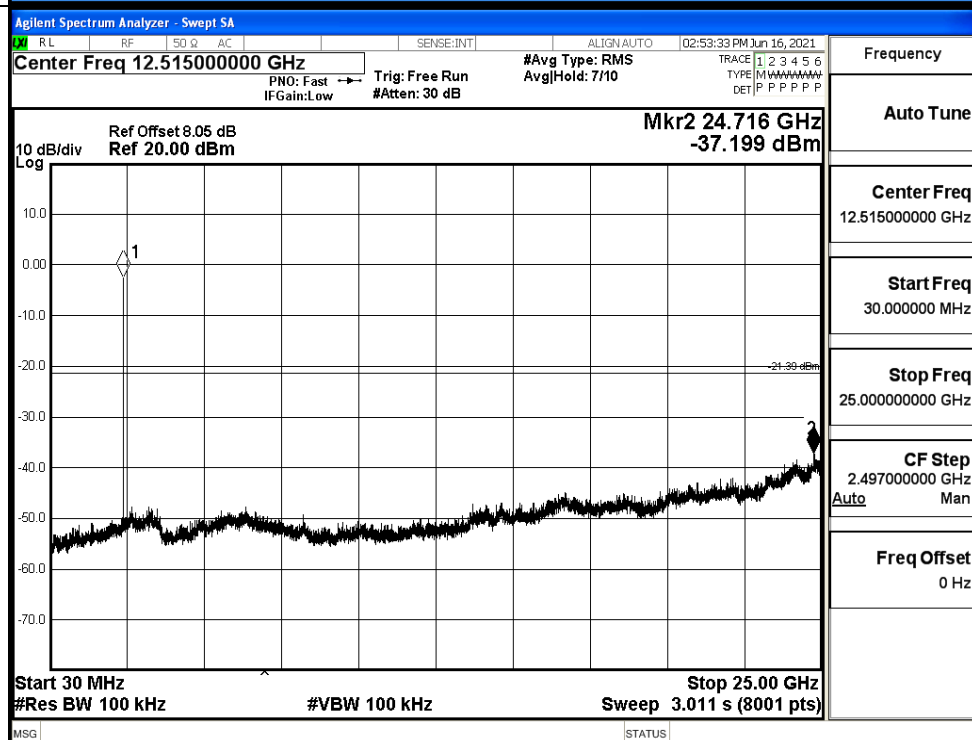
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.393	-37.199	-21.393	PASS
BT LE	MCH	-2.764	-36.692	-22.764	PASS
BT LE	HCH	-1.751	-38.211	-21.751	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

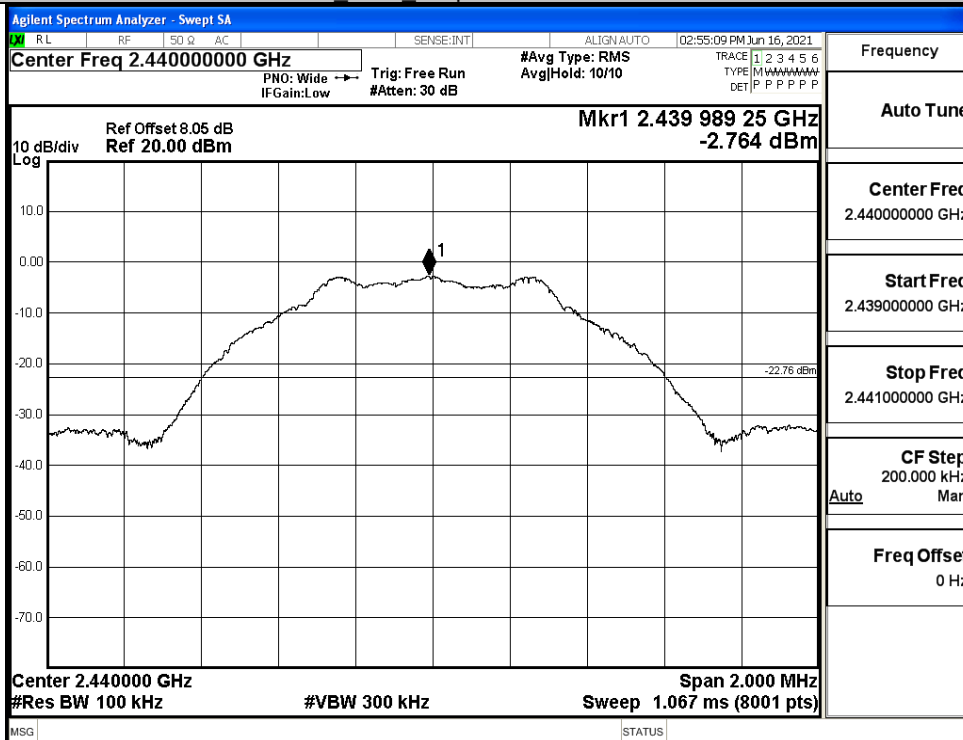


Puw/BT LE/LCH

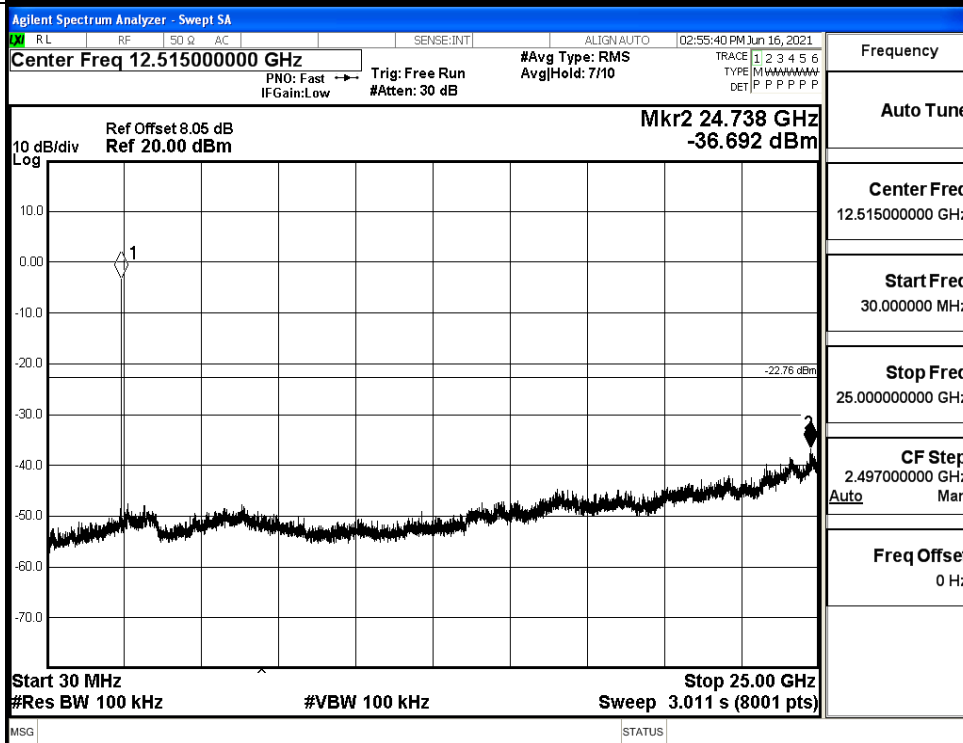


BT LE MCH Graphs

Pref/BT LE/MCH

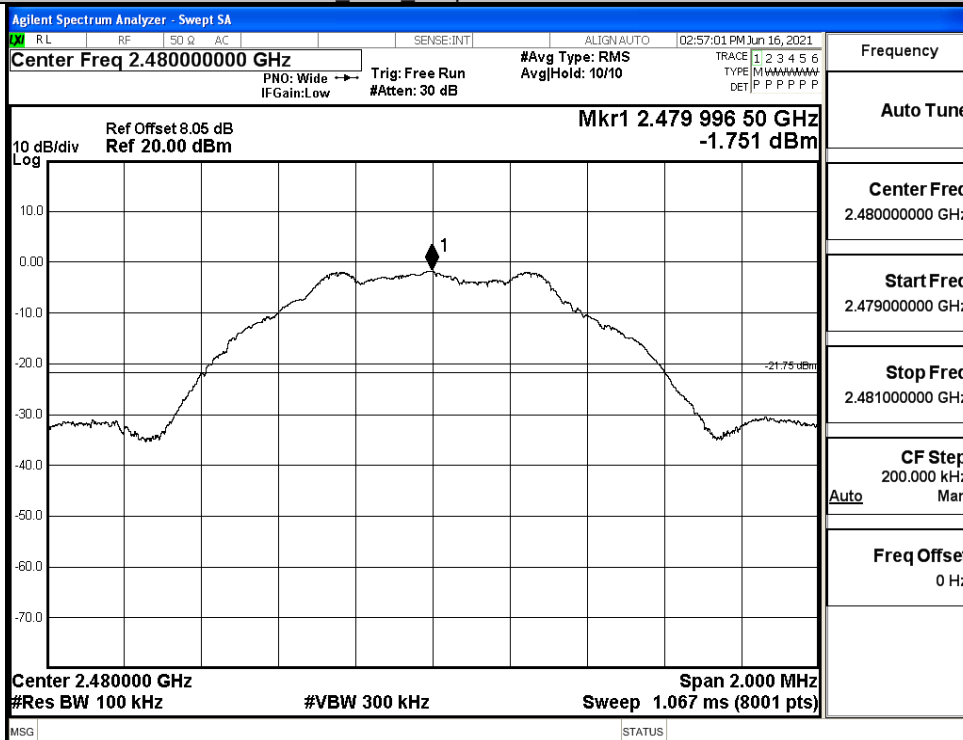


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

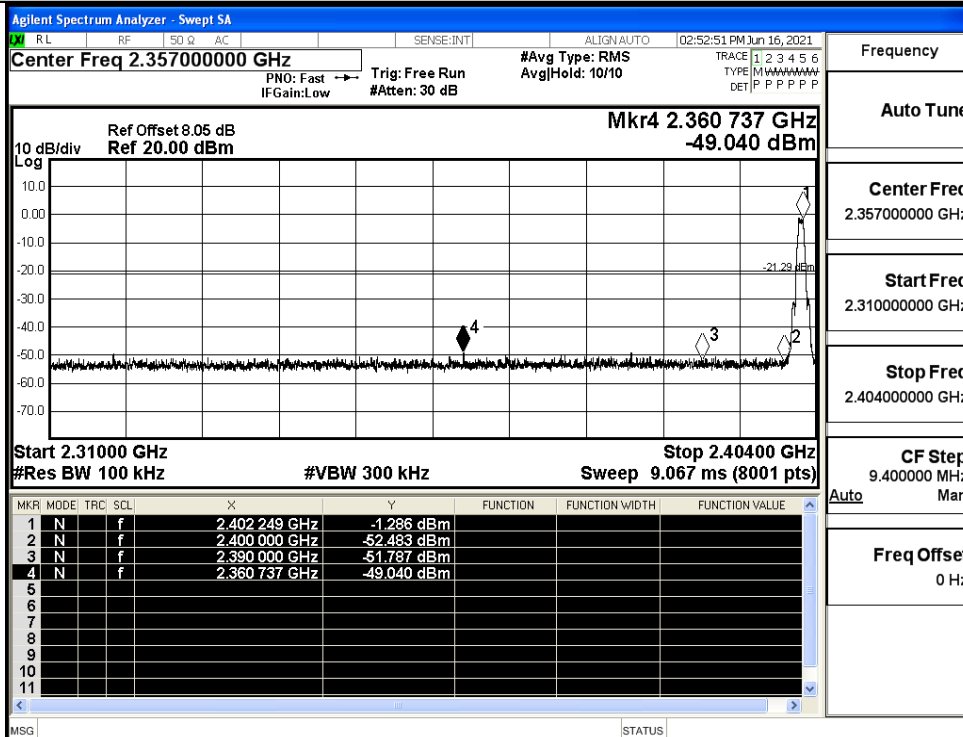


B.6 Band-edge for RF Conducted Emissions

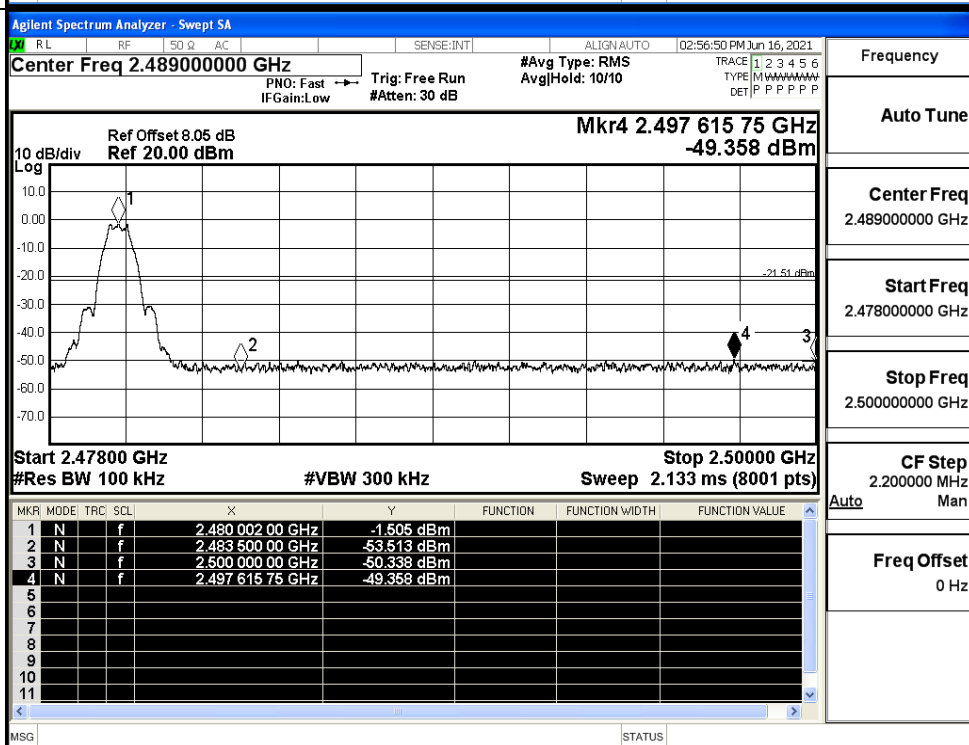
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.286	-49.040	-21.29	PASS
BT LE	HCH	-1.505	-49.358	-21.51	PASS

Test Graphs

LCH



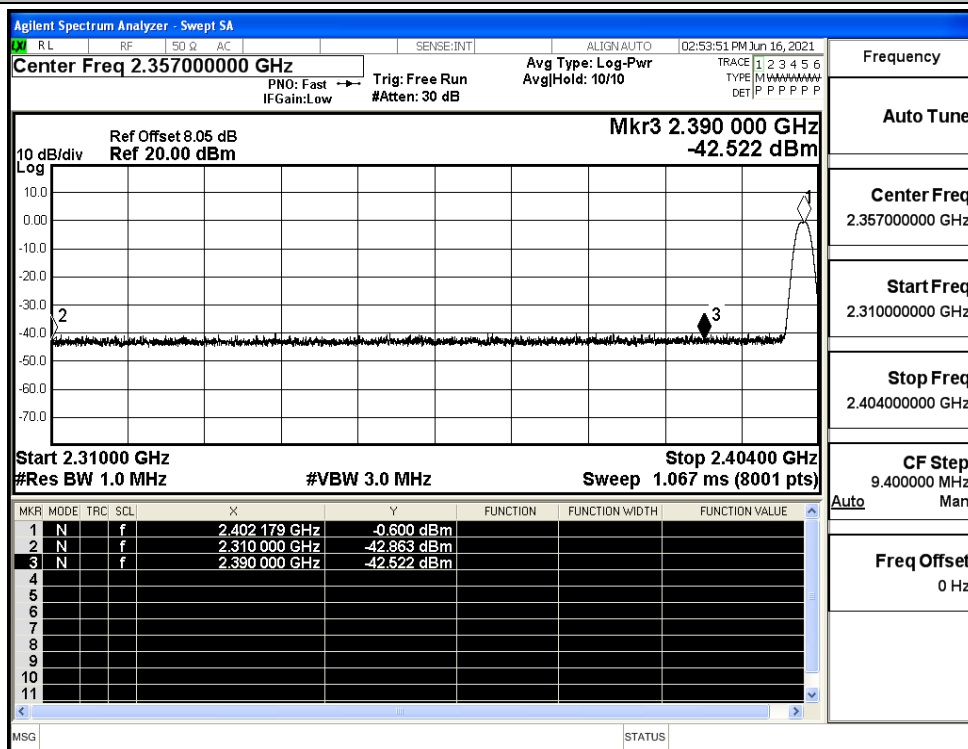
HCH



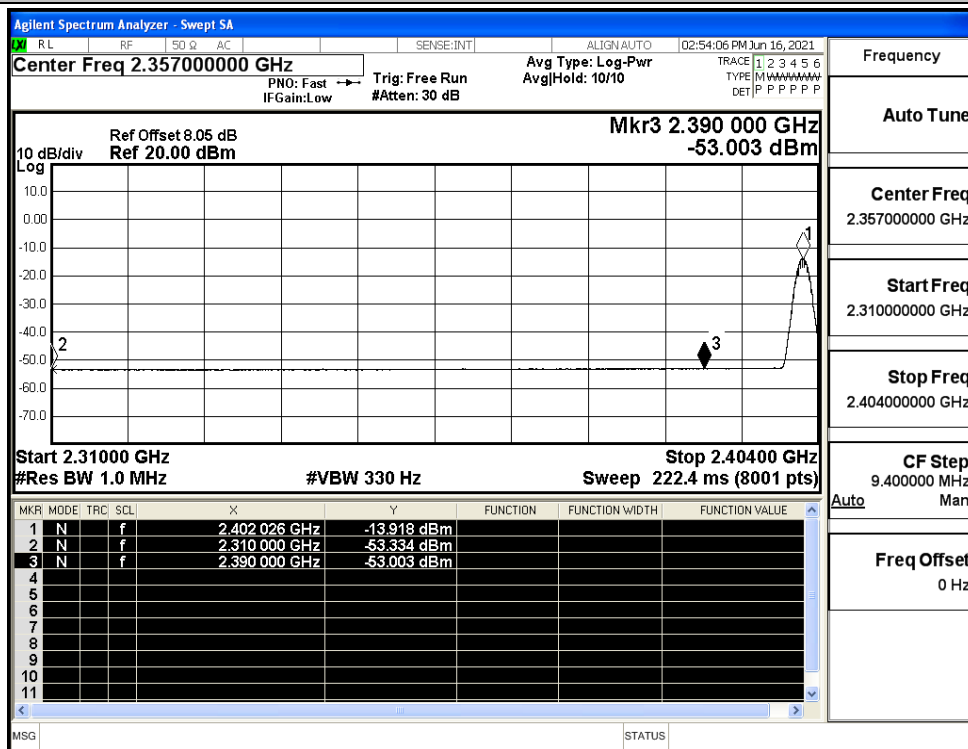
B.7 Restrict-band band-edge measurements

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	-42.86	2.0	0	54.40	PEAK	74	PASS
		Ant1	2310.0	-53.33	2.0	0	43.93	AV	54	PASS
		Ant1	2390.0	-42.52	2.0	0	54.74	PEAK	74	PASS
		Ant1	2390.0	-53.00	2.0	0	44.26	AV	54	PASS
	2480	Ant1	2483.5	-43.26	2.0	0	54.00	PEAK	74	PASS
		Ant1	2483.5	-52.53	2.0	0	44.73	AV	54	PASS
		Ant1	2500.0	-42.47	2.0	0	54.79	PEAK	74	PASS
		Ant1	2500.0	-52.39	2.0	0	44.87	AV	54	PASS

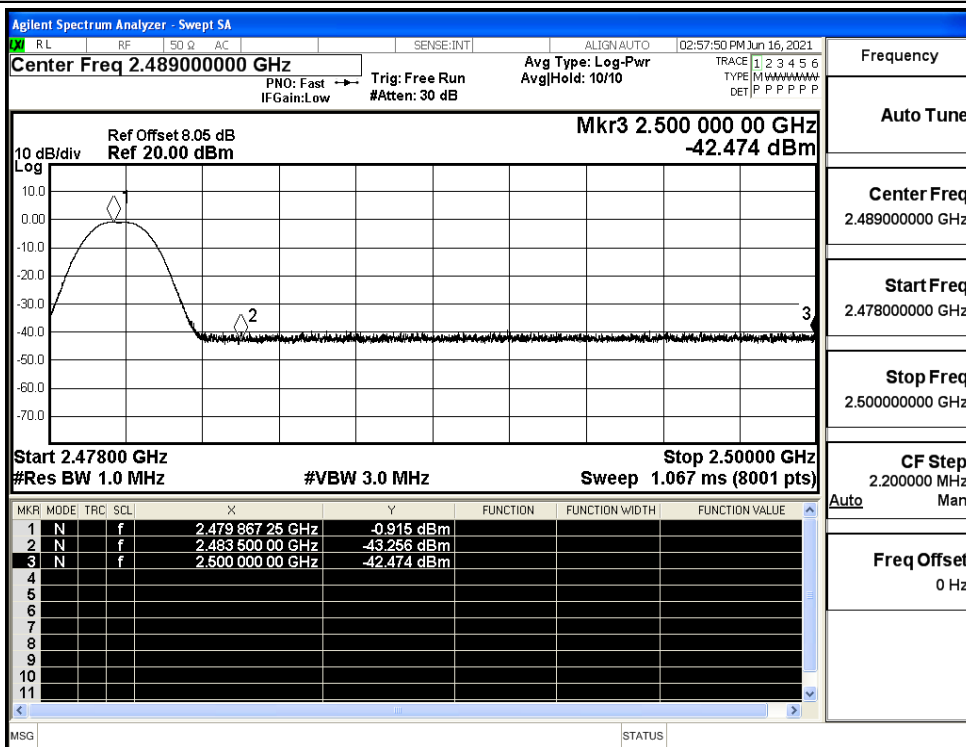
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

