

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Star Niaht Liaht Projector

Trade Mark: NEXTRON

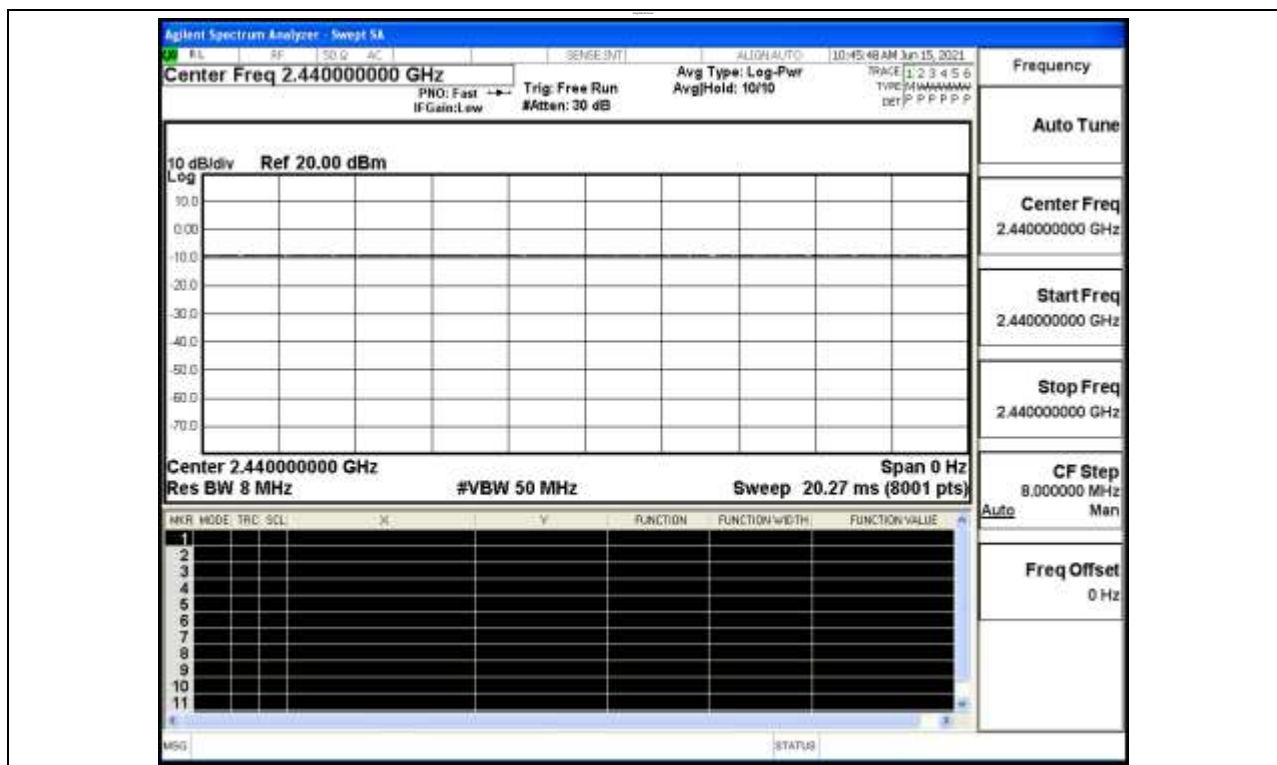
Test Model: HT-500MAX

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

B.1 Duty Cycle

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

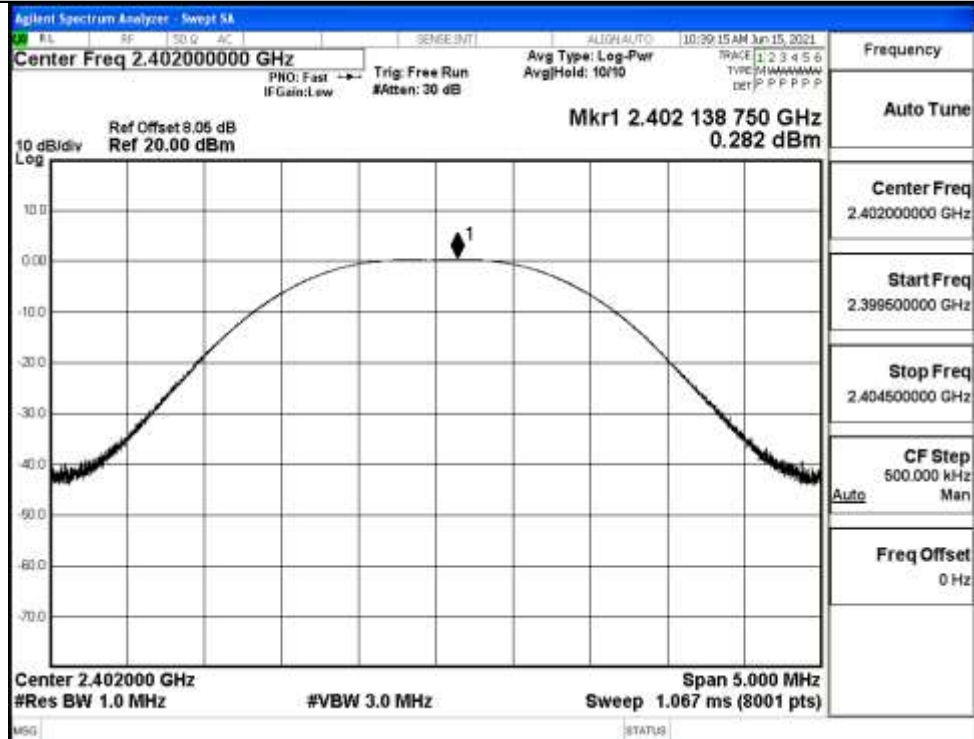


B.2 Maximum Conducted Peak Output Power

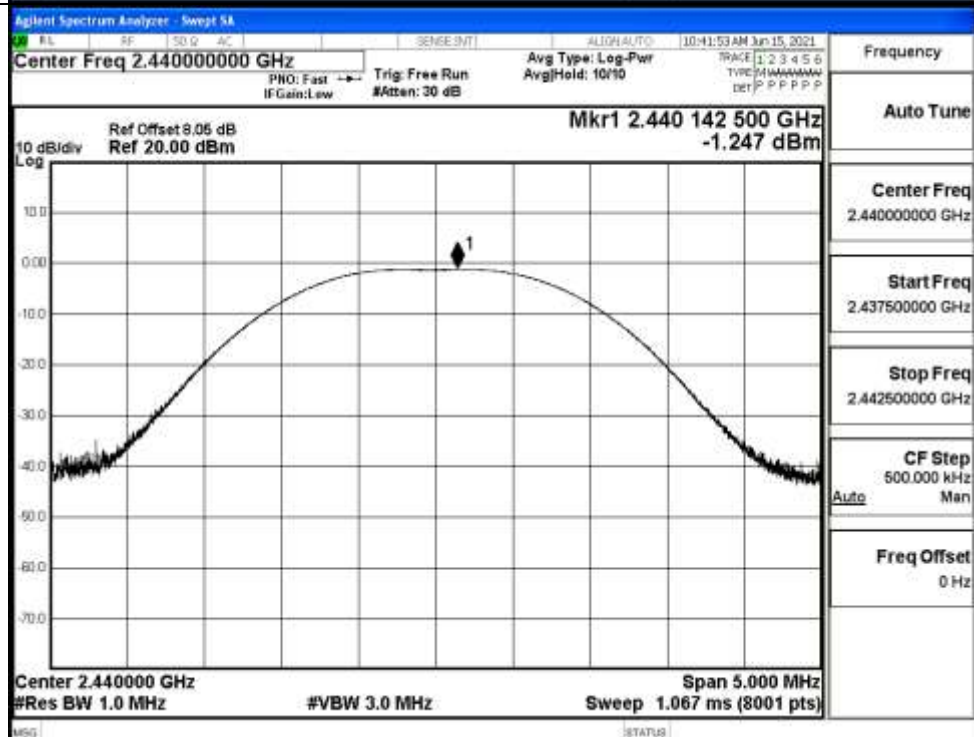
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.282	30	PASS
BT LE	MCH	-1.247	30	PASS
BT LE	HCH	-0.419	30	PASS

Test Graphs

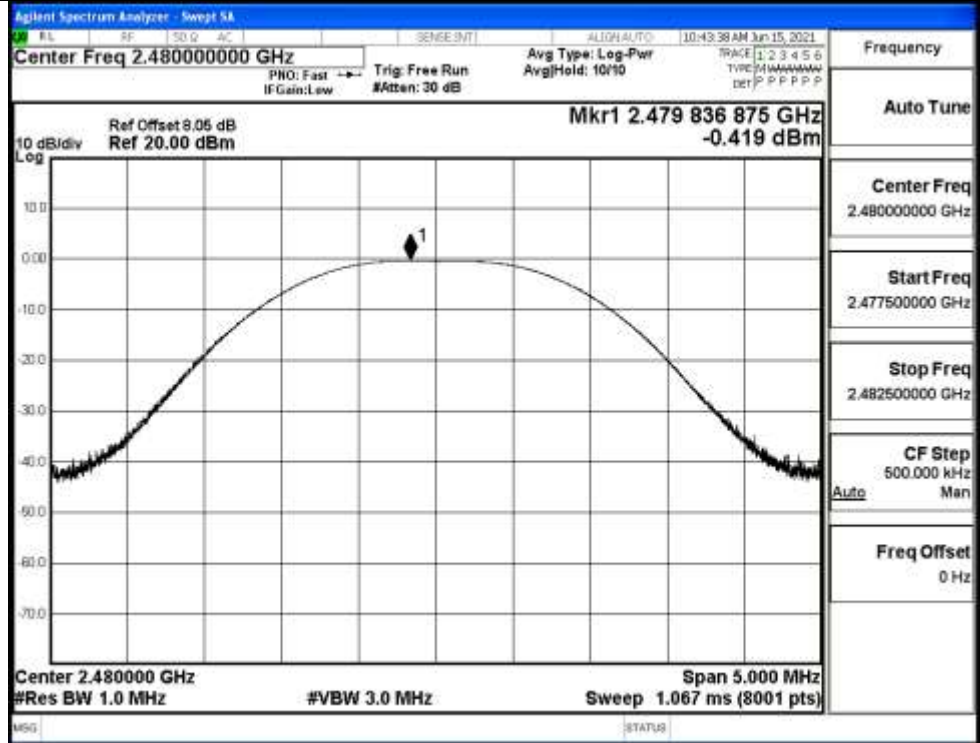
LCH



MCH



HCH

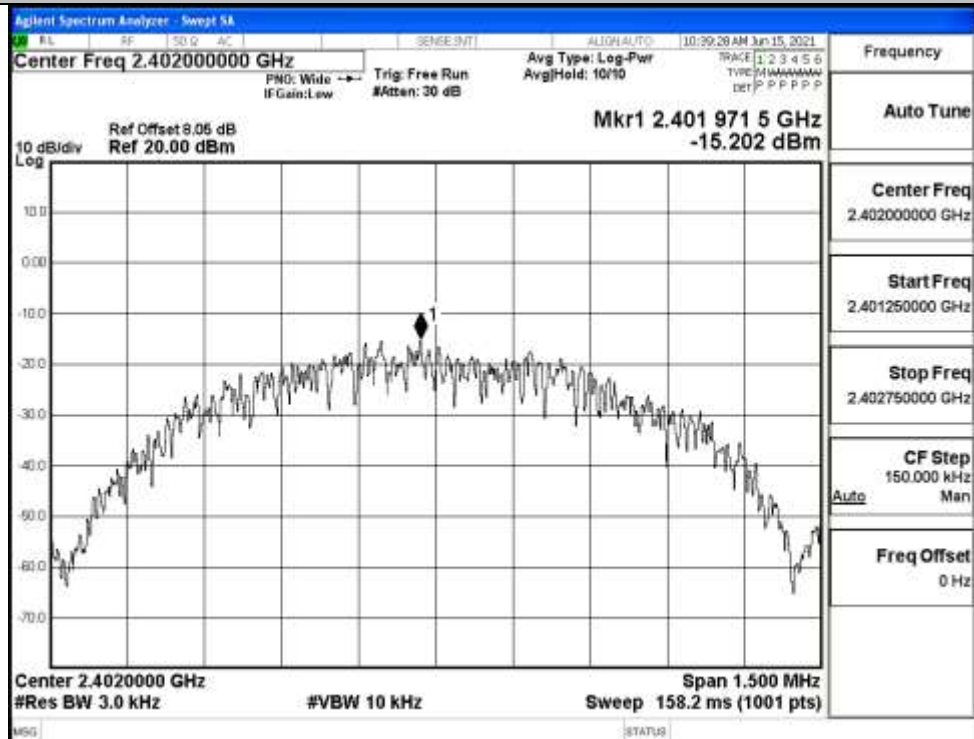


B.3 Maximum Power Spectral Density

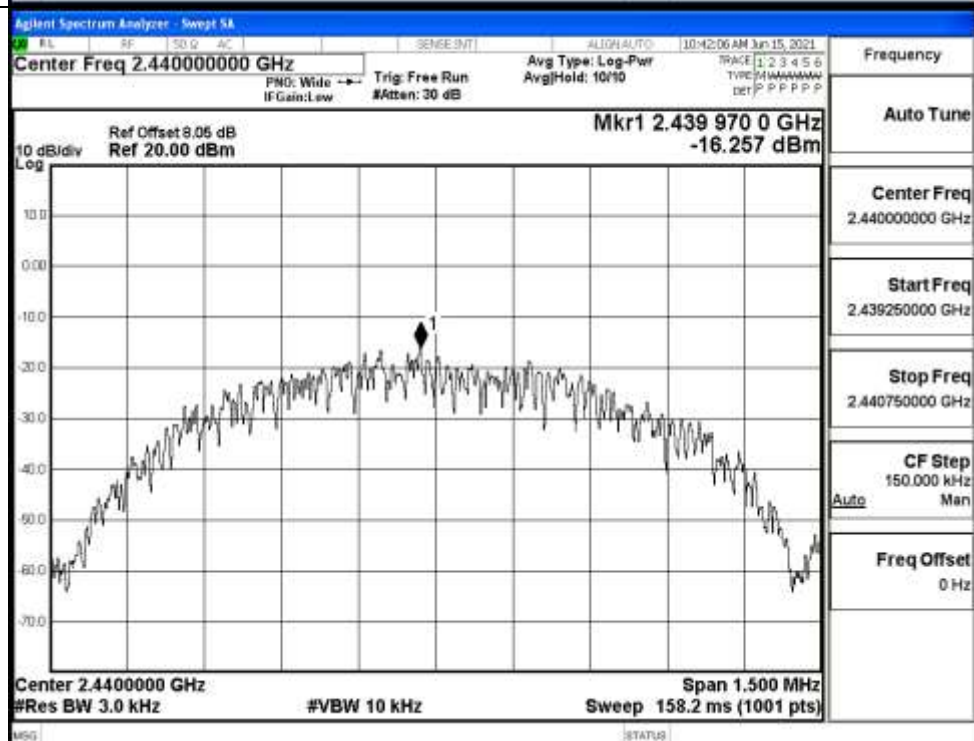
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.202	8	PASS
BT LE	MCH	-16.257	8	PASS
BT LE	HCH	-15.568	8	PASS

Test Graphs

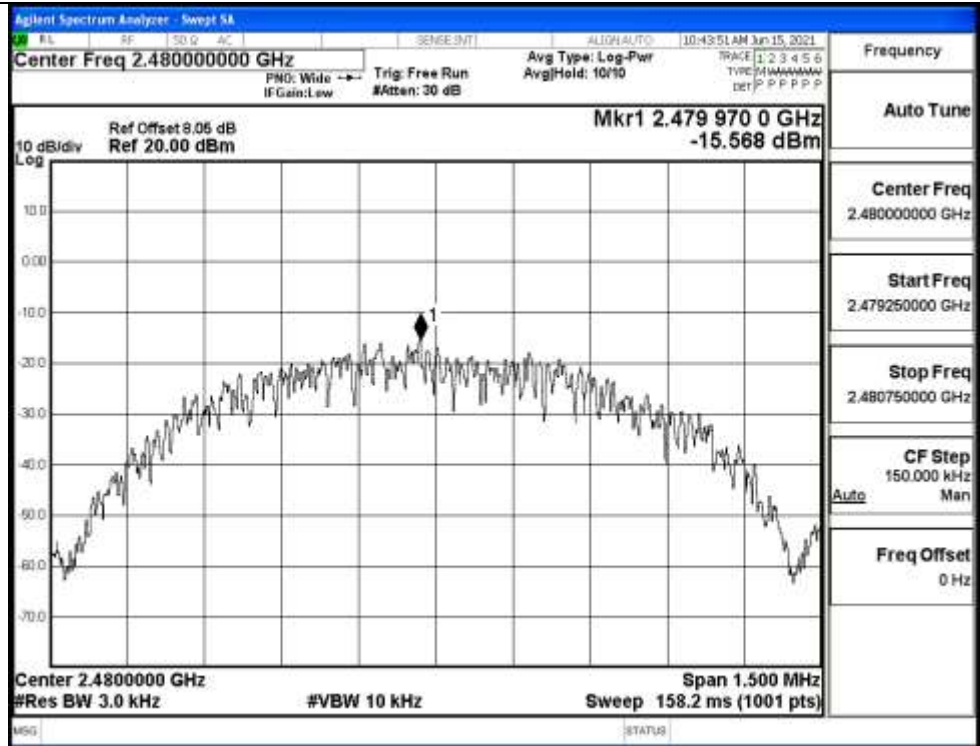
LCH



MCH



HCH

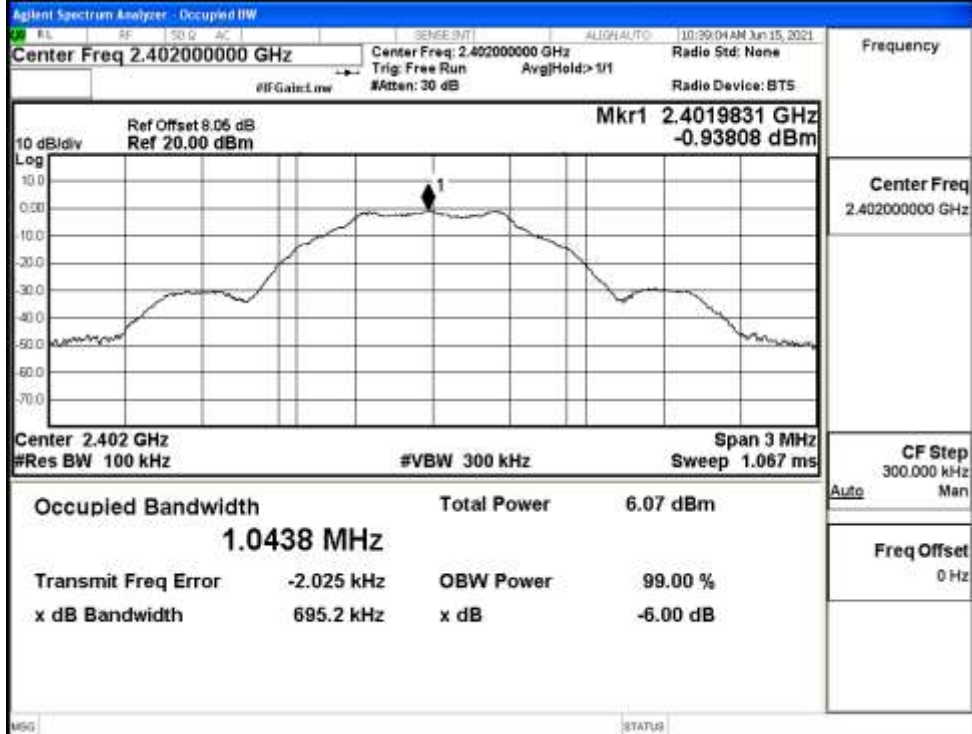


B.4 6dB Bandwidth

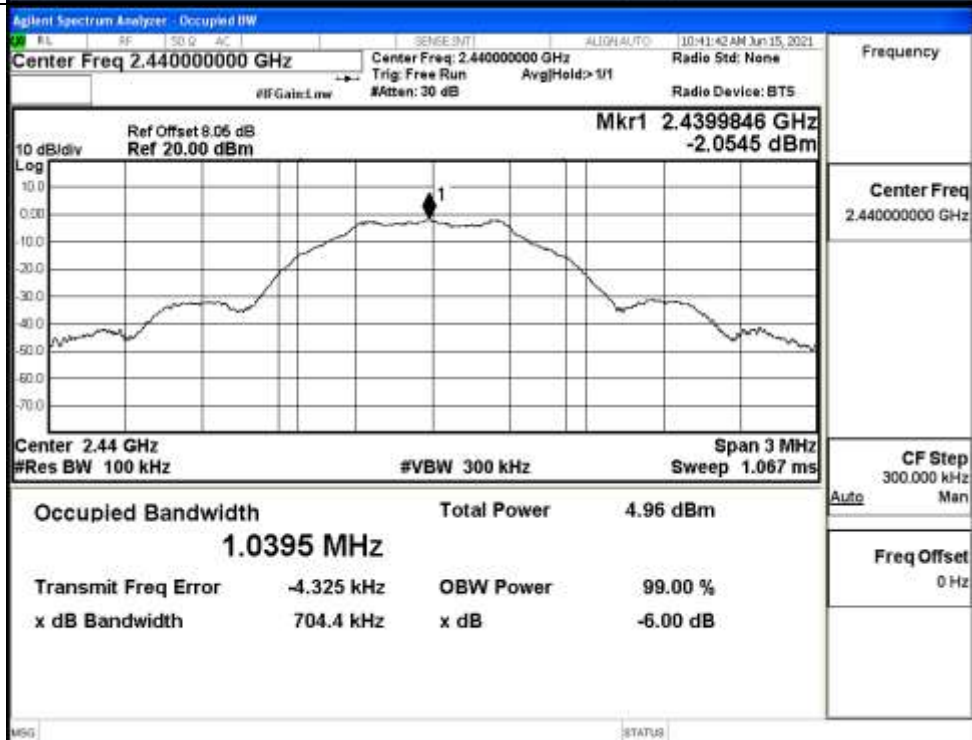
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6952	≥ 0.5	PASS
BT LE	MCH	0.7044	≥ 0.5	PASS
BT LE	HCH	0.6875	≥ 0.5	PASS

Test Graphs

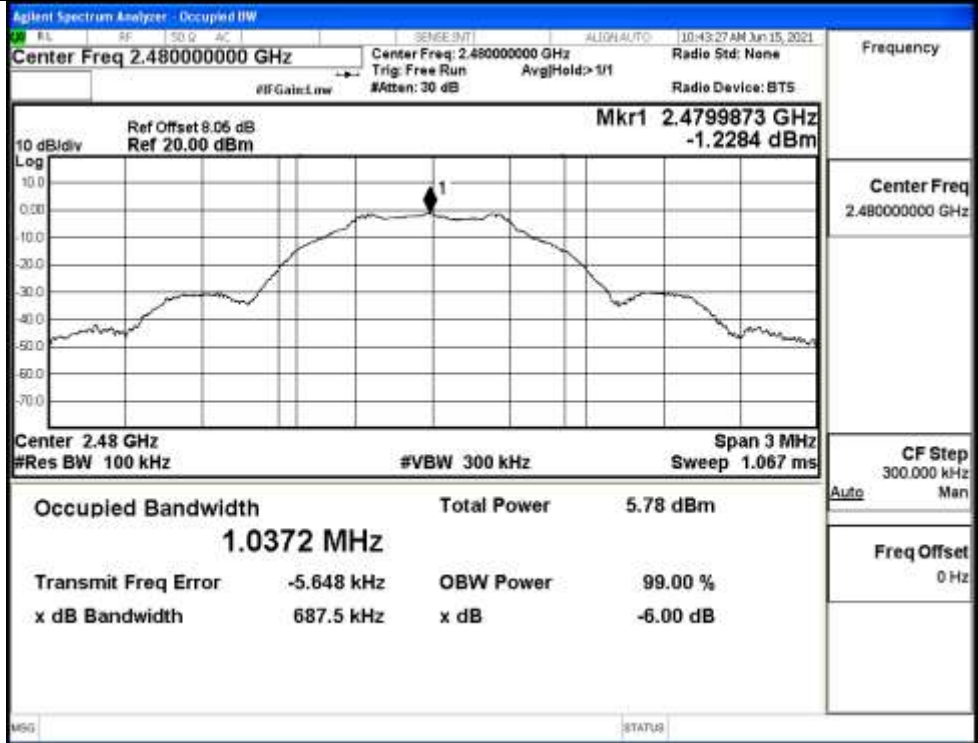
LCH



MCH



HCH

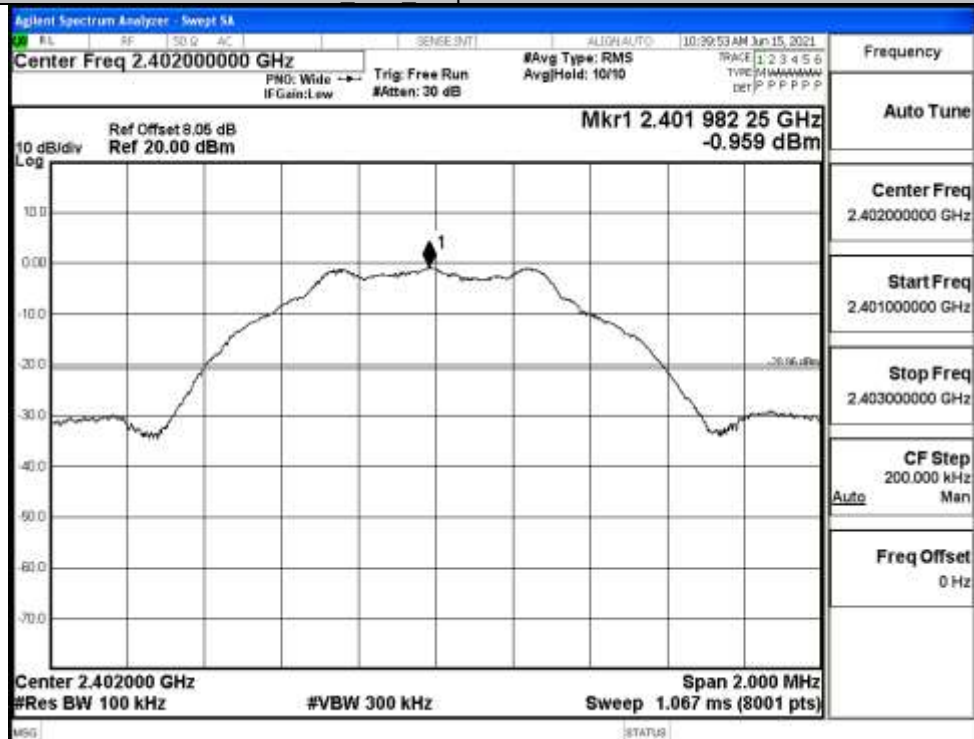


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.959	-38.093	-20.959	PASS
BT LE	MCH	-2.031	-38.124	-22.031	PASS
BT LE	HCH	-1.242	-38.075	-21.242	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

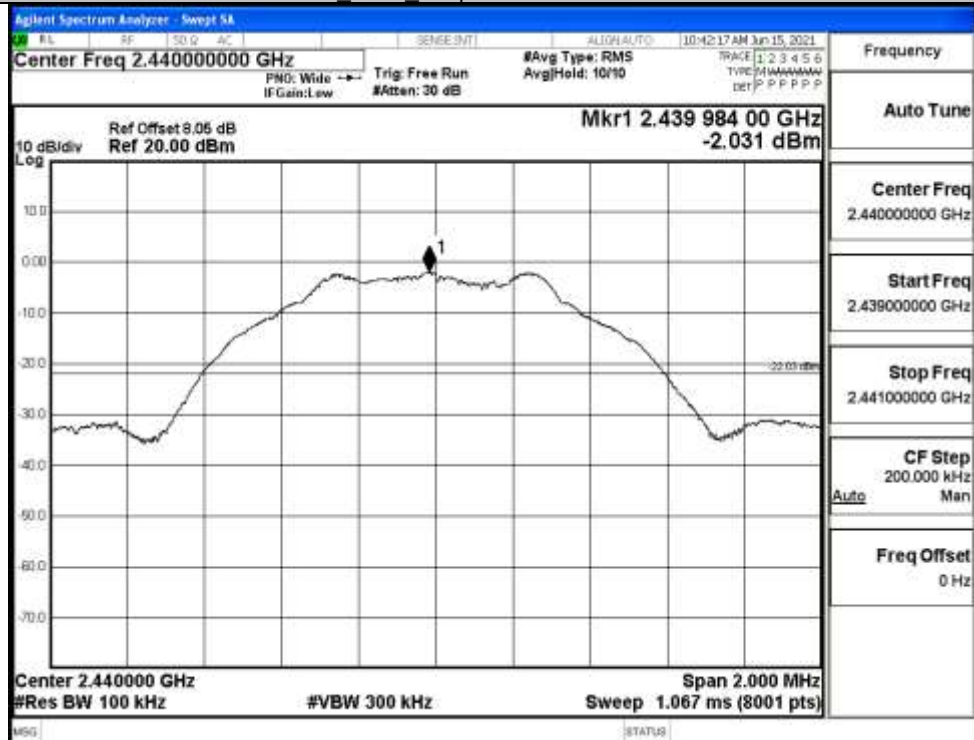


Puw/BT LE/LCH

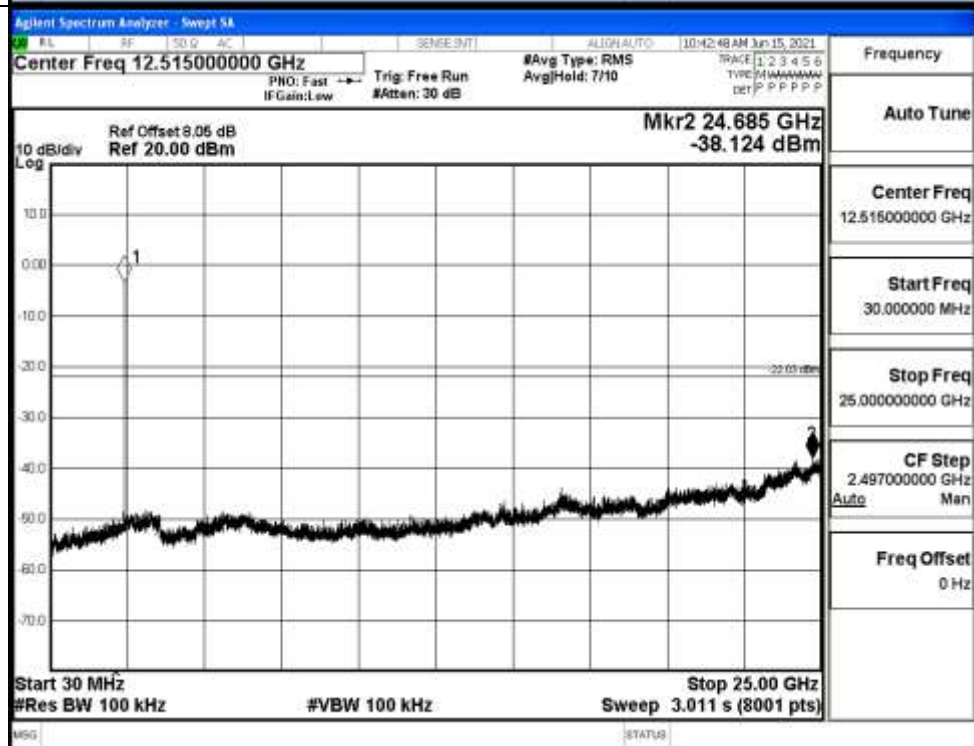


BT LE MCH Graphs

Pref/BT LE/MCH

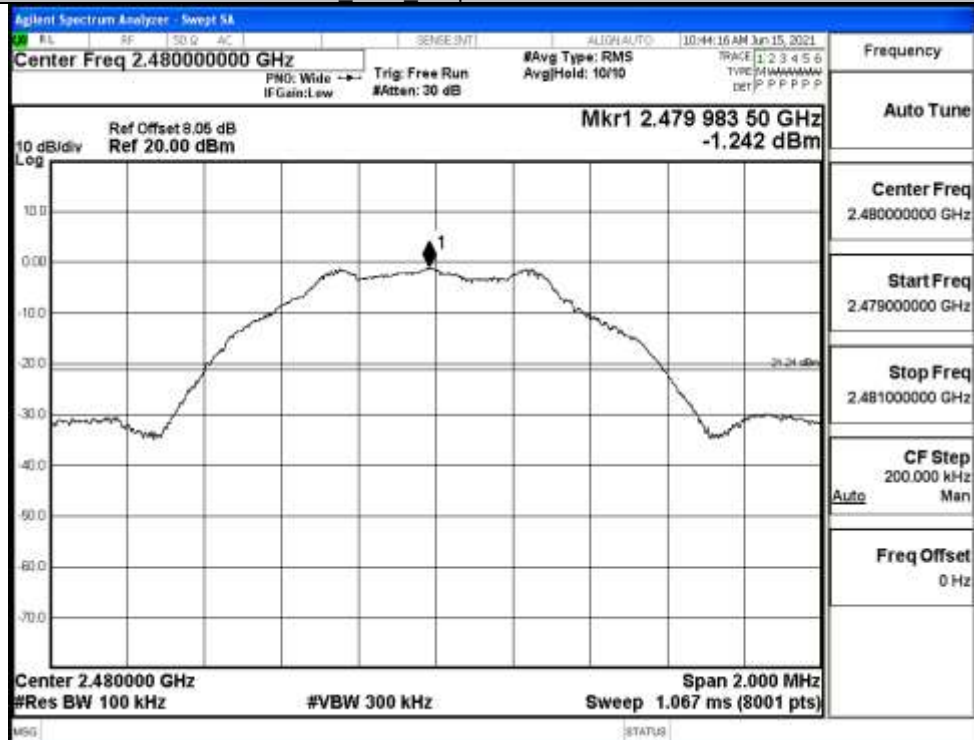


Puw/BT LE/MCH

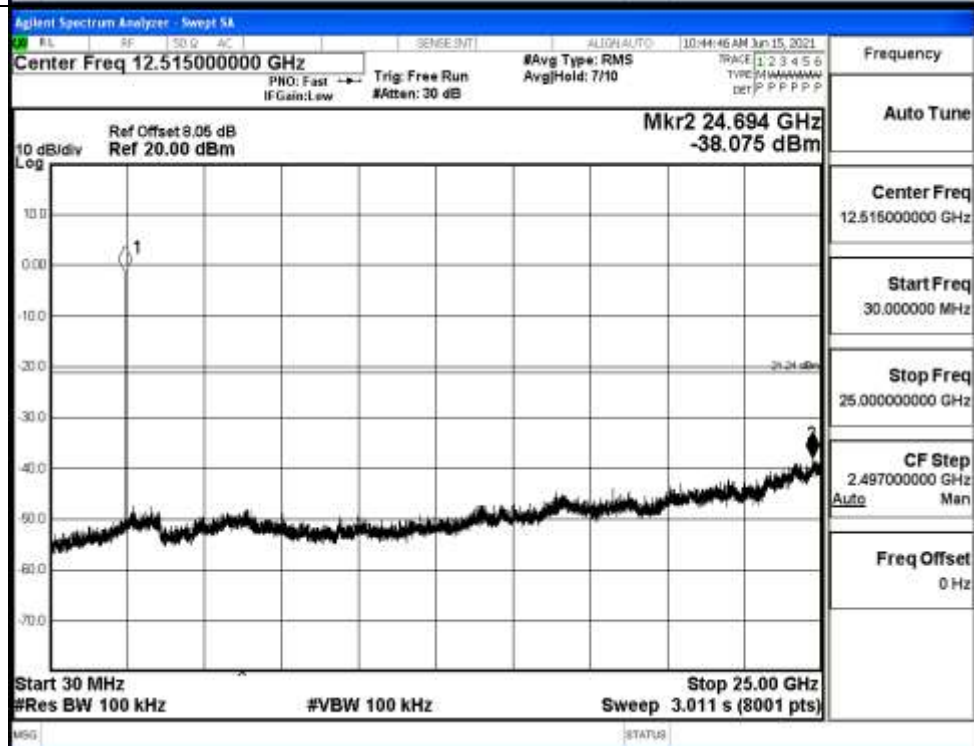


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

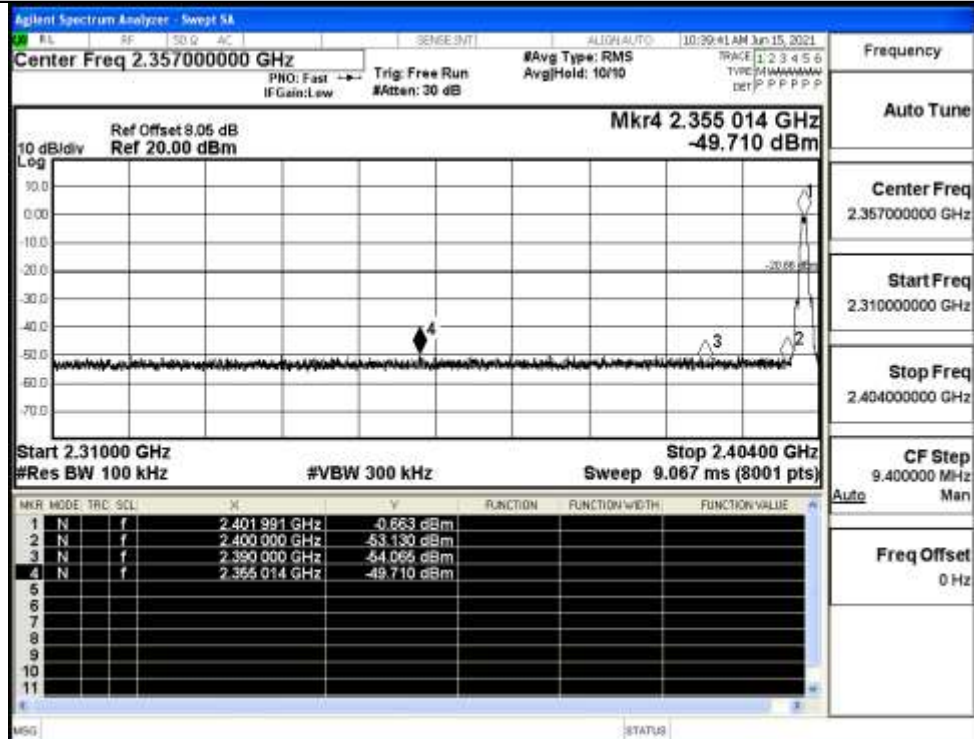


B.6 Band-edge for RF Conducted Emissions

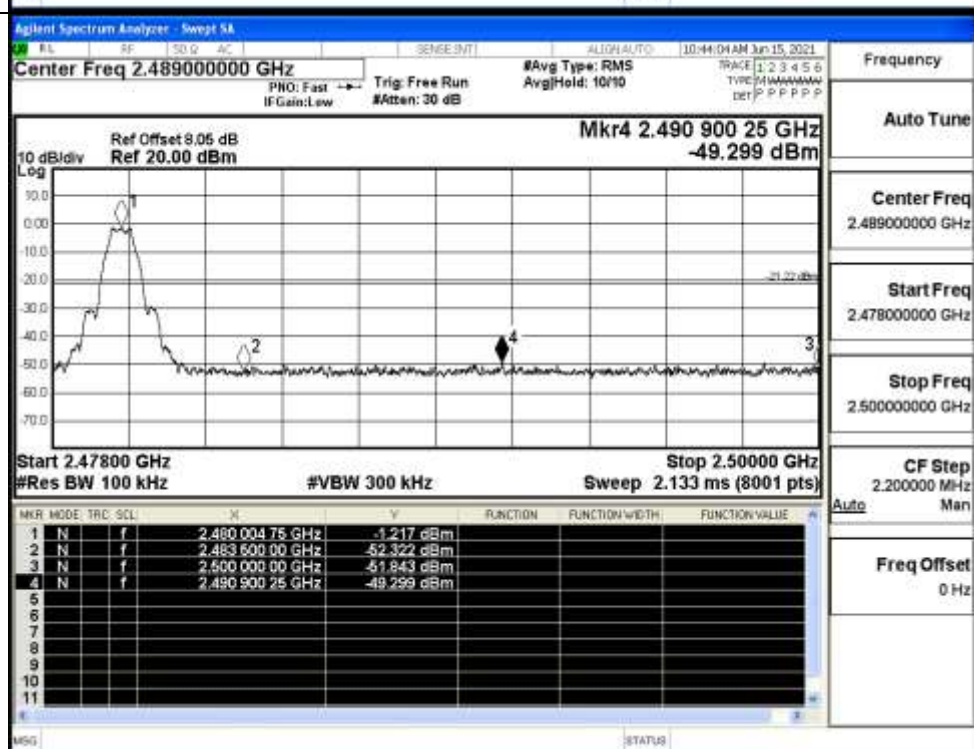
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.663	-49.710	-20.66	PASS
BT LE	HCH	-1.217	-49.299	-21.22	PASS

Test Graphs

LCH



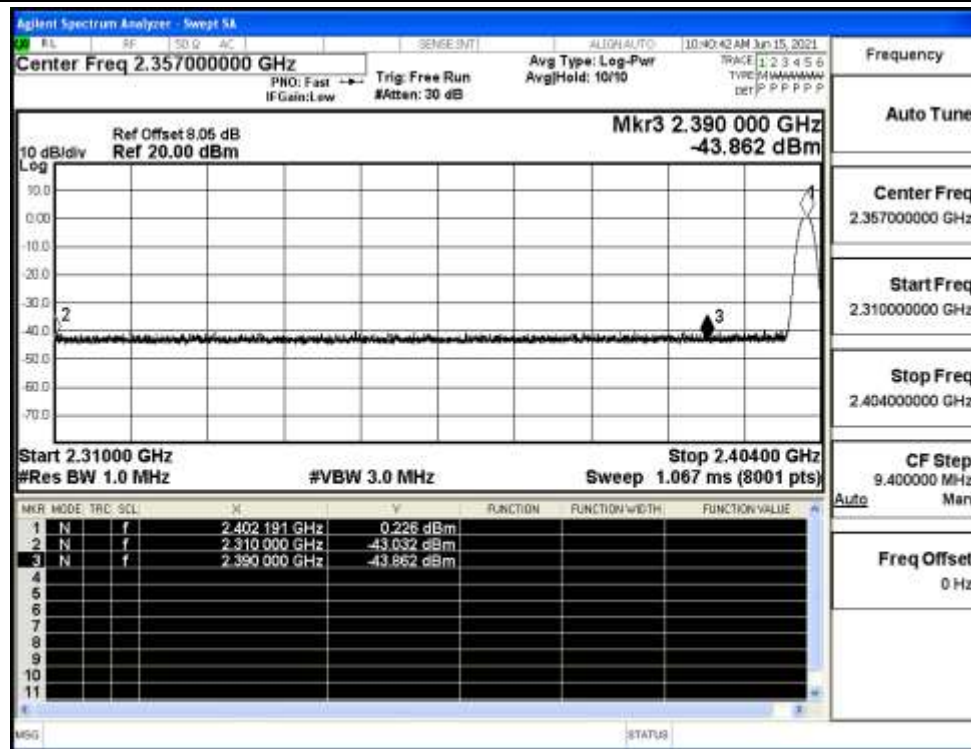
HCH



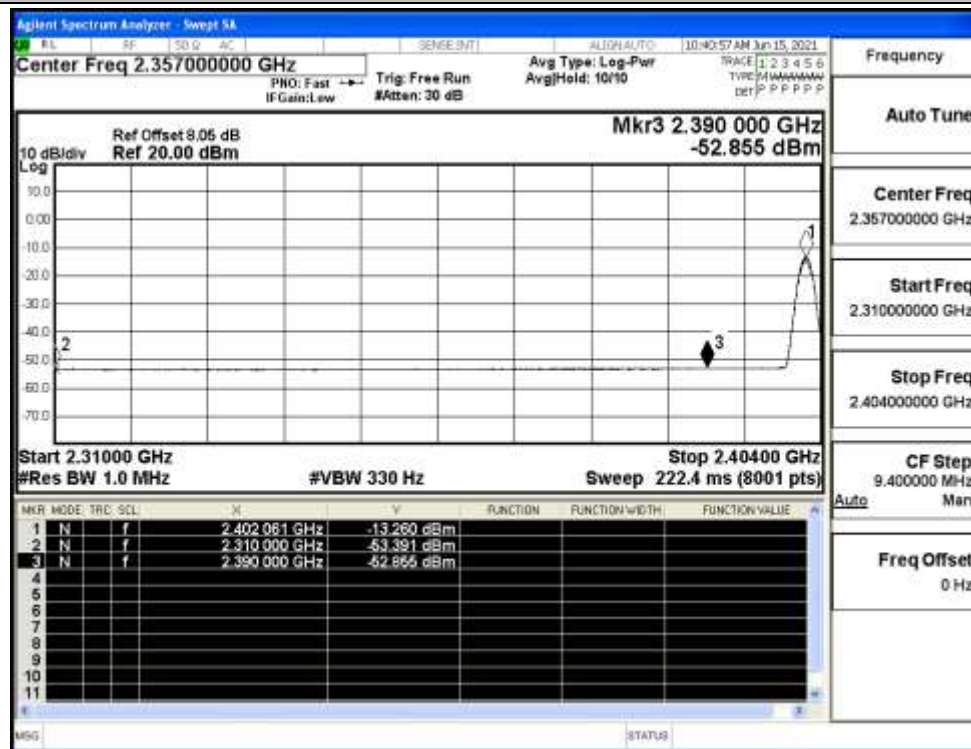
B.7 Restrict-band band-edge measurements

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	-43.03	2.0	0	54.20	PEAK	74	PASS
		Ant1	2310.0	-53.39	2.0	0	43.84	AV	54	PASS
		Ant1	2390.0	-43.86	2.0	0	53.37	PEAK	74	PASS
		Ant1	2390.0	-52.86	2.0	0	44.37	AV	54	PASS
	2480	Ant1	2483.5	-41.90	2.0	0	55.33	PEAK	74	PASS
		Ant1	2483.5	-52.61	2.0	0	44.62	AV	54	PASS
		Ant1	2500.0	-42.10	2.0	0	55.13	PEAK	74	PASS
		Ant1	2500.0	-52.49	2.0	0	44.74	AV	54	PASS

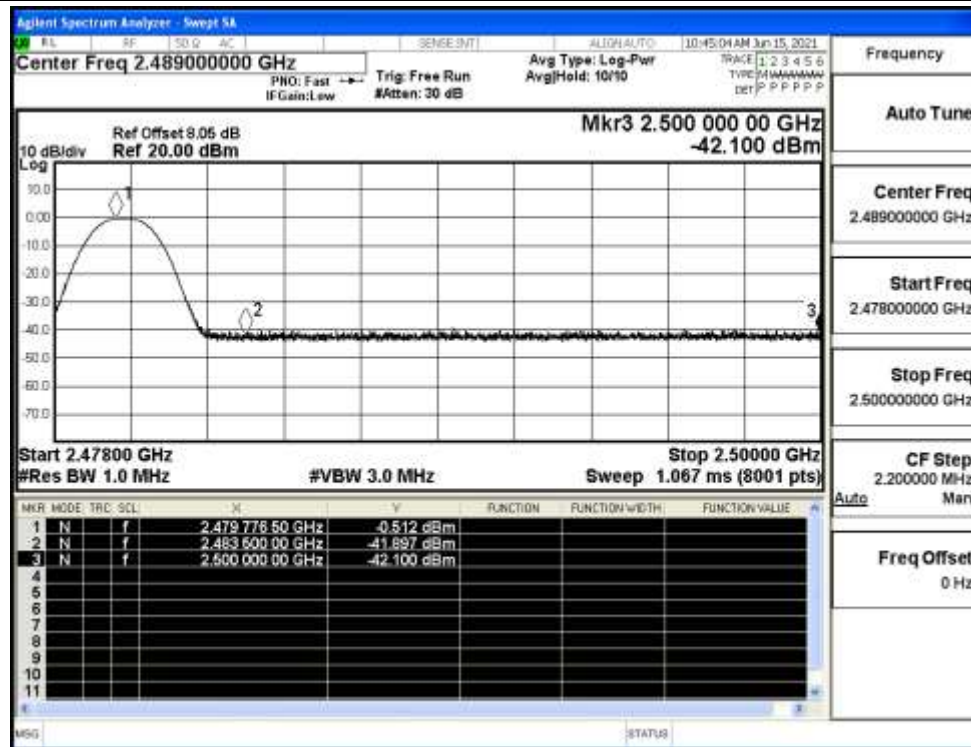
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

