

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart small spotlights

Trade Mark: N/A

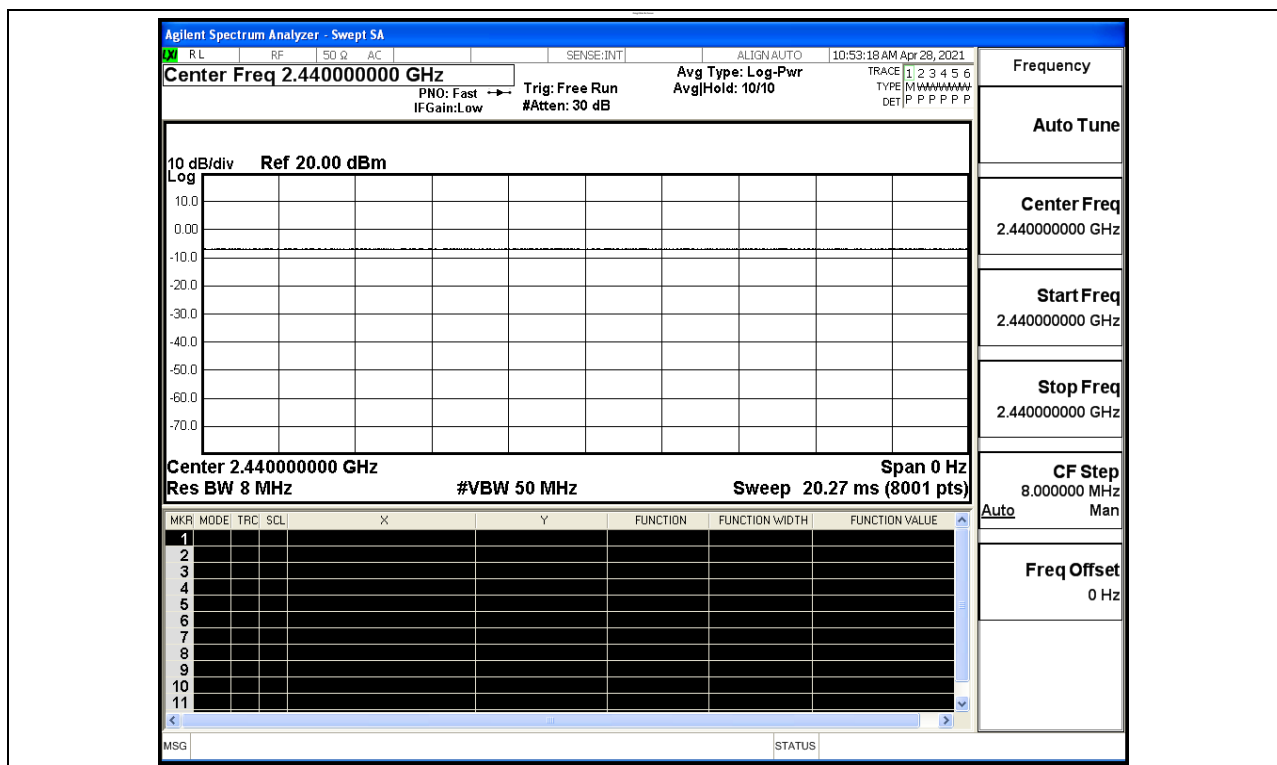
Test Model: GU10

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
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

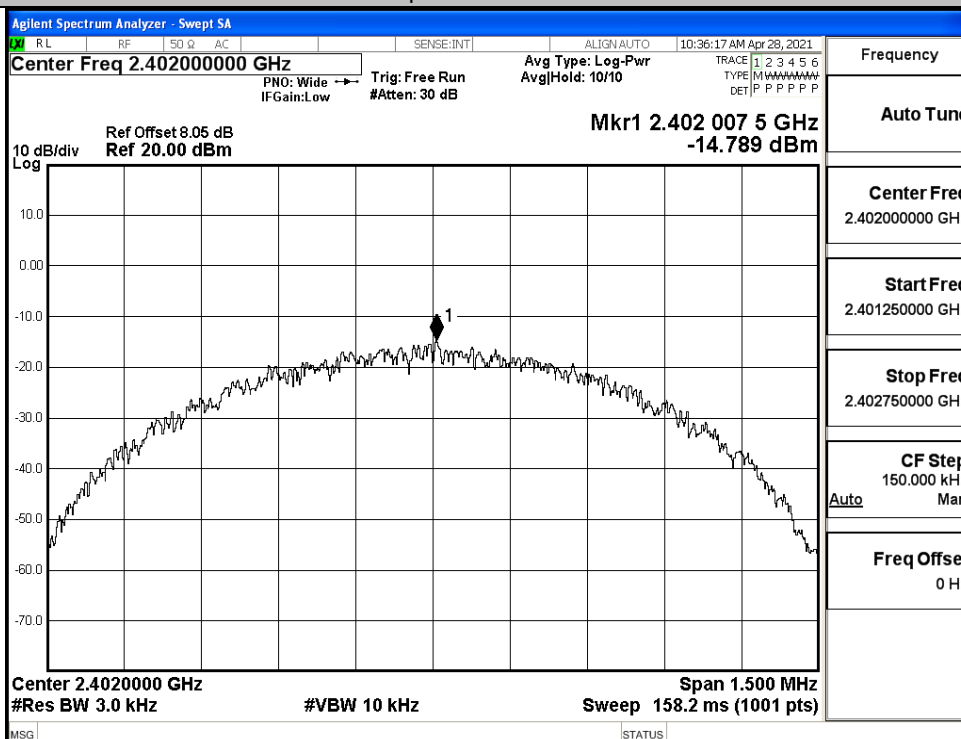
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.526	30	PASS
BT LE	MCH	2.184	30	PASS
BT LE	HCH	2.043	30	PASS

A.3 Maximum Power Spectral Density

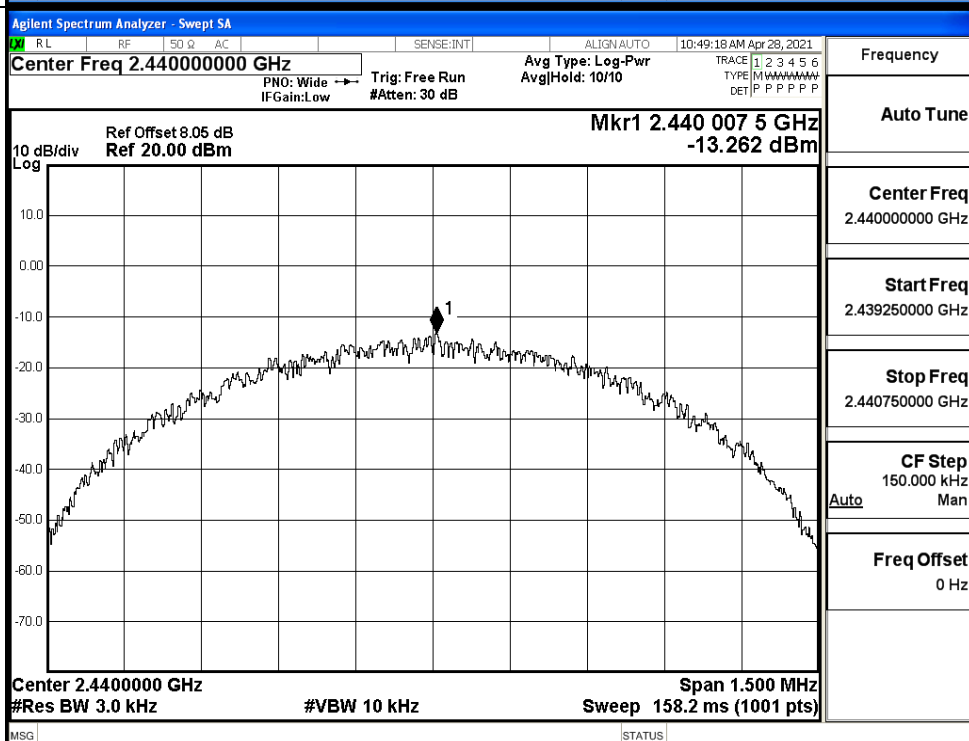
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.789	8	PASS
BT LE	MCH	-13.262	8	PASS
BT LE	HCH	-13.420	8	PASS

Test Graphs

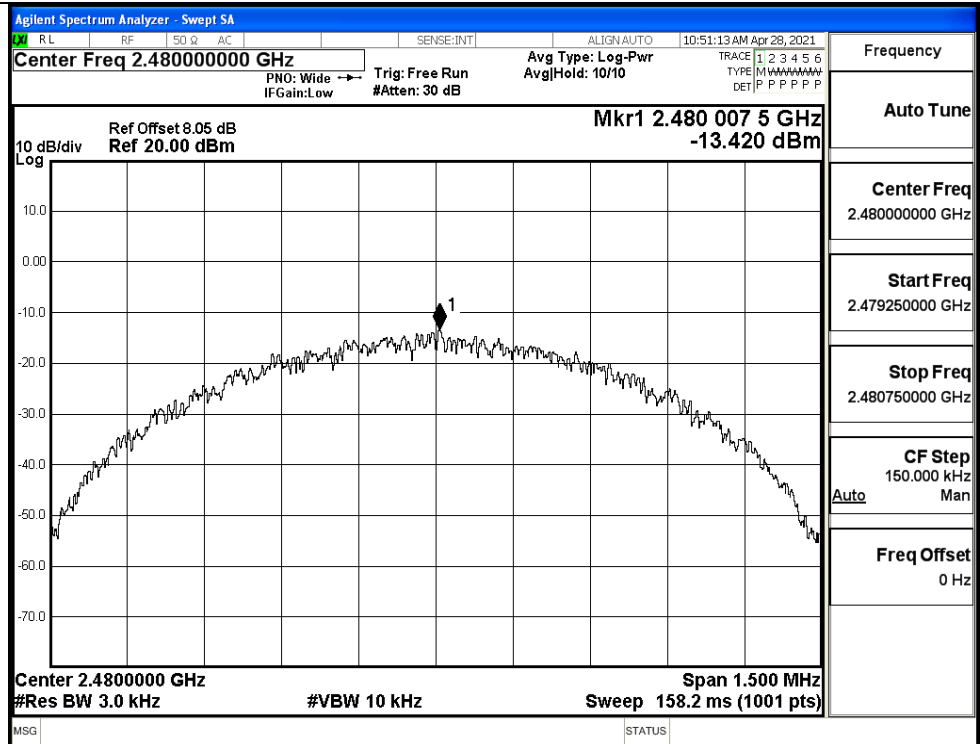
LCH



MCH



HCH

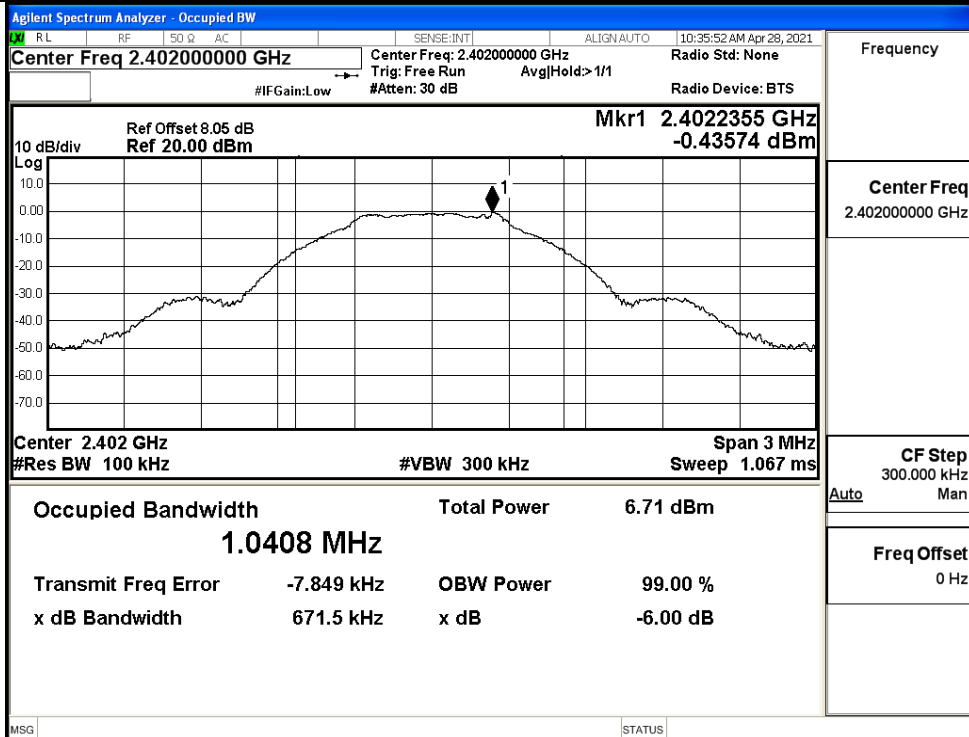


A.4 6dB Bandwidth

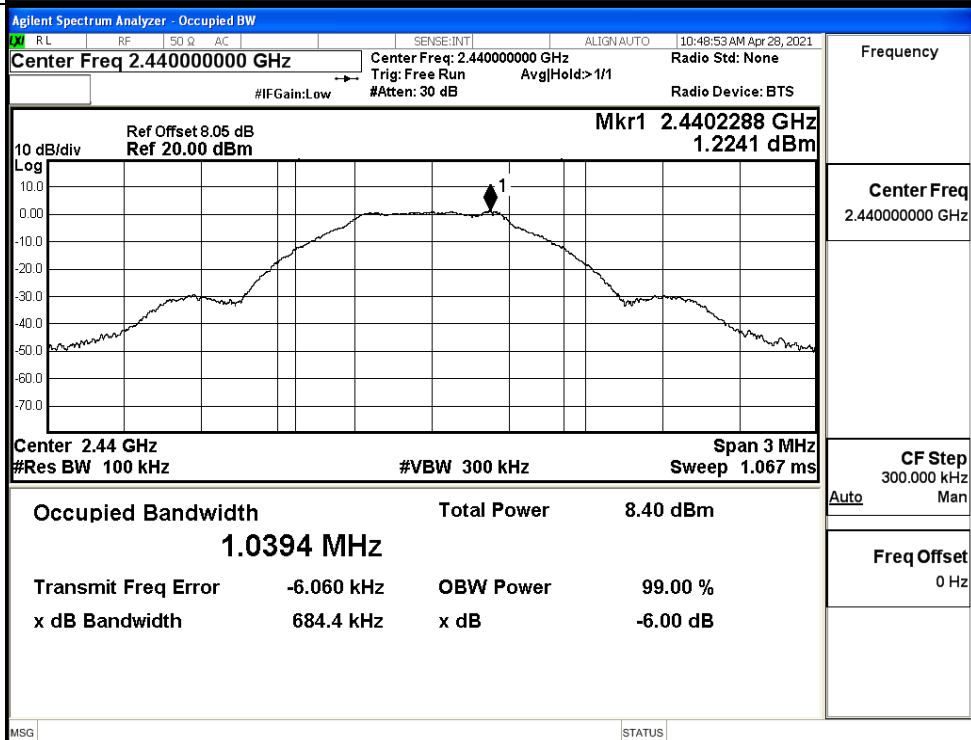
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6715	≥ 0.5	PASS
BT LE	MCH	0.6844	≥ 0.5	PASS
BT LE	HCH	0.6640	≥ 0.5	PASS

Test Graphs

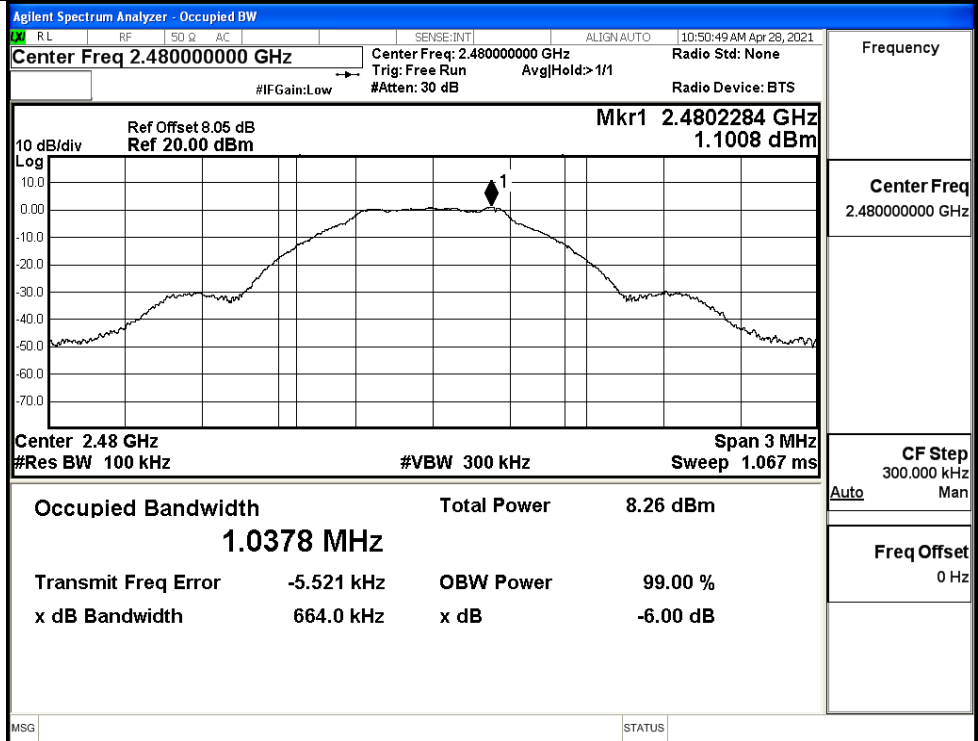
LCH



MCH



HCH

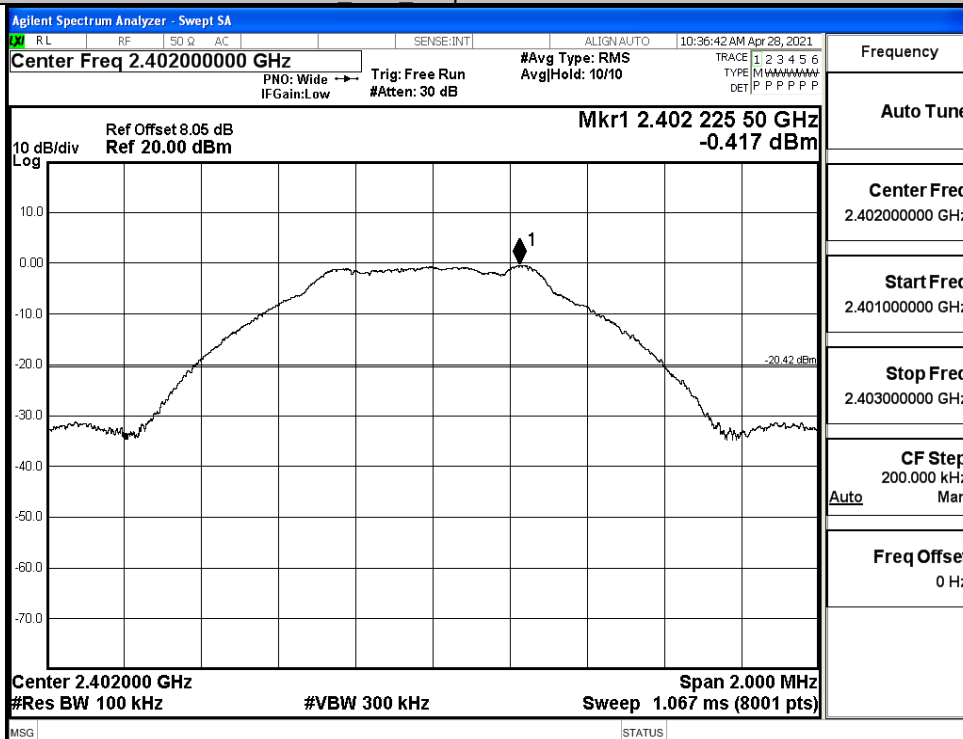


A.5 RF Conducted Spurious Emissions

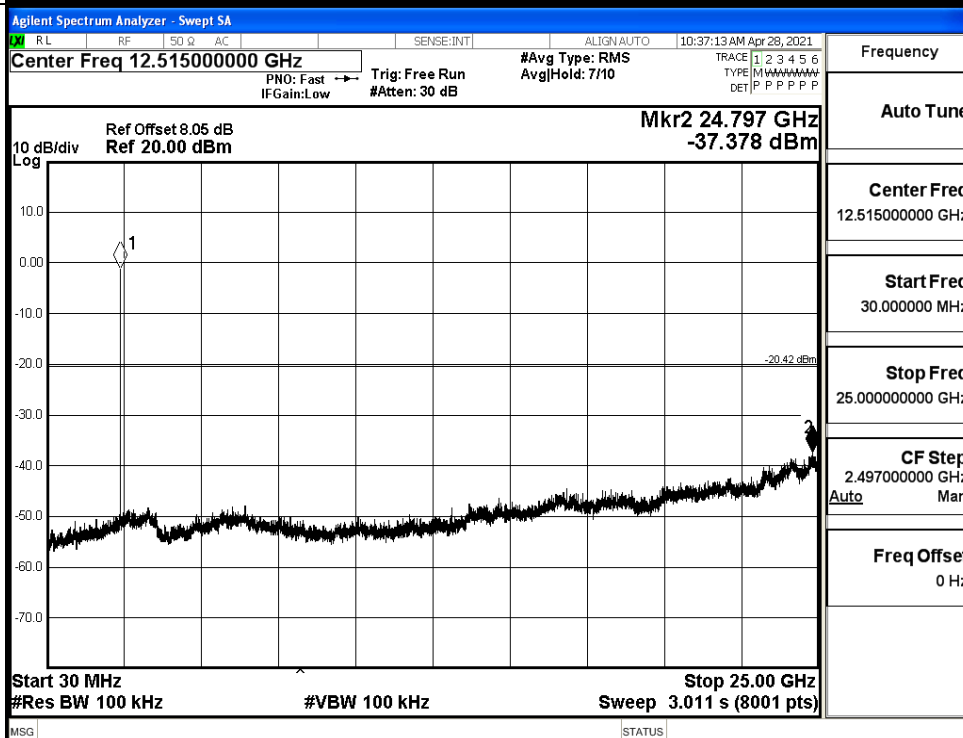
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.417	-37.378	-20.417	PASS
BT LE	MCH	1.223	-37.810	-18.777	PASS
BT LE	HCH	1.046	-37.872	-18.954	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

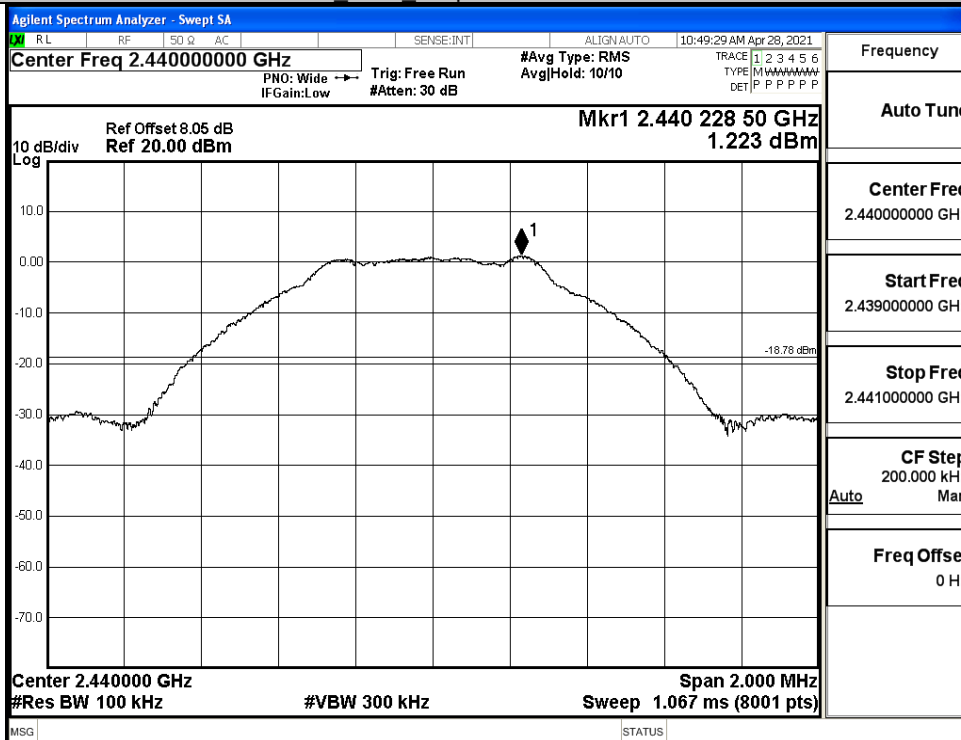


Puw/BT LE/LCH



BT LE MCH Graphs

Pref/BT LE/MCH

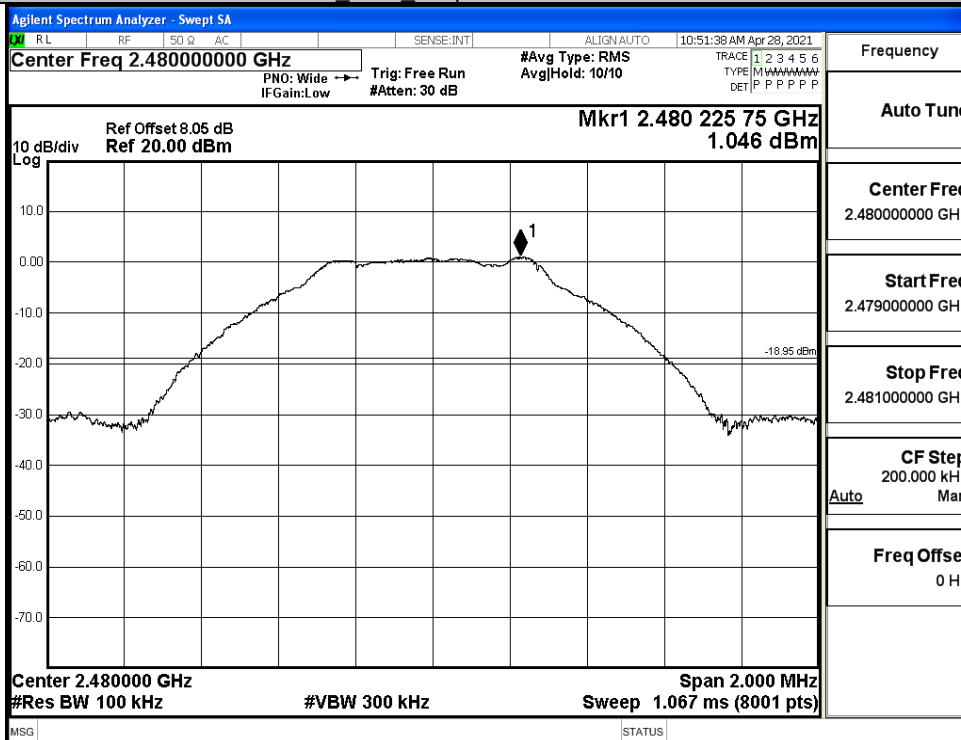


Puw/BT LE/MCH

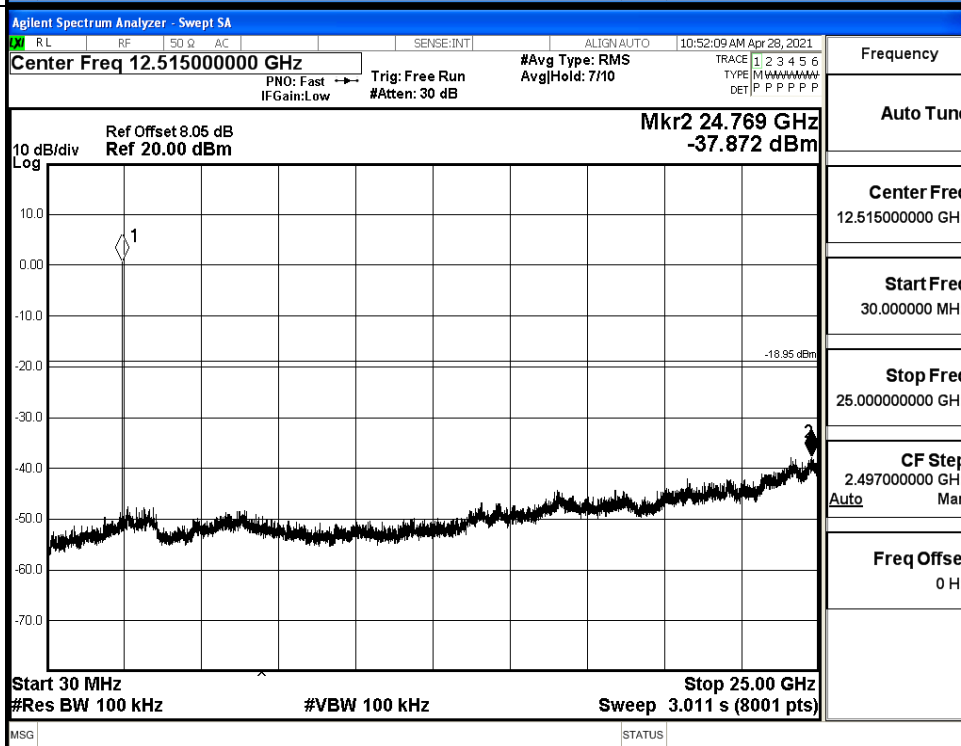


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

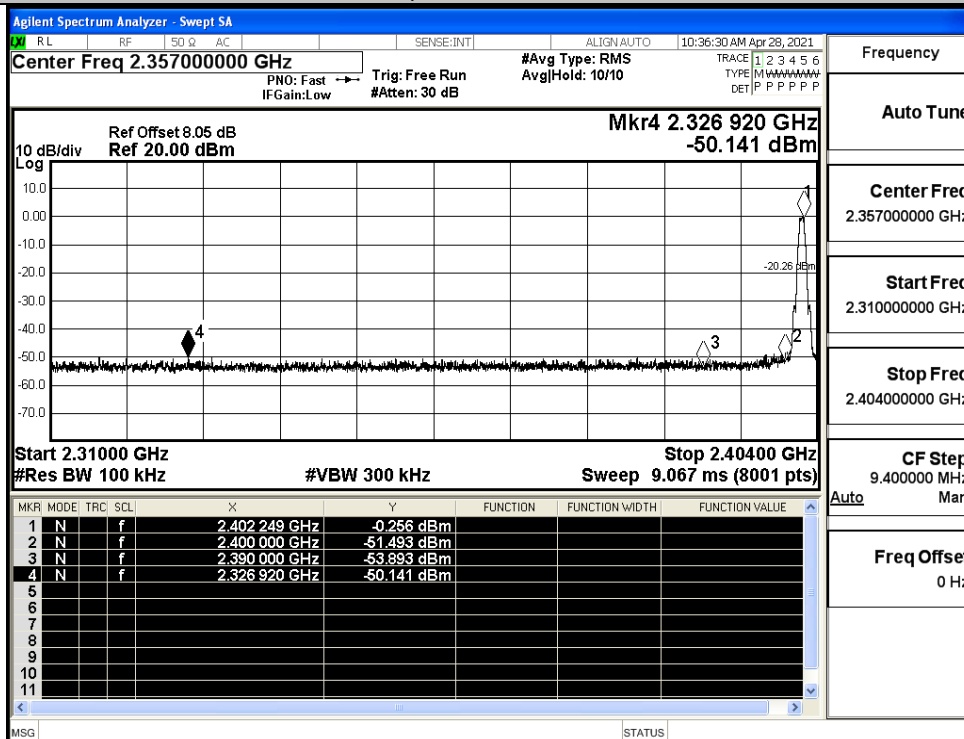


A.6 Band-edge for RF Conducted Emissions

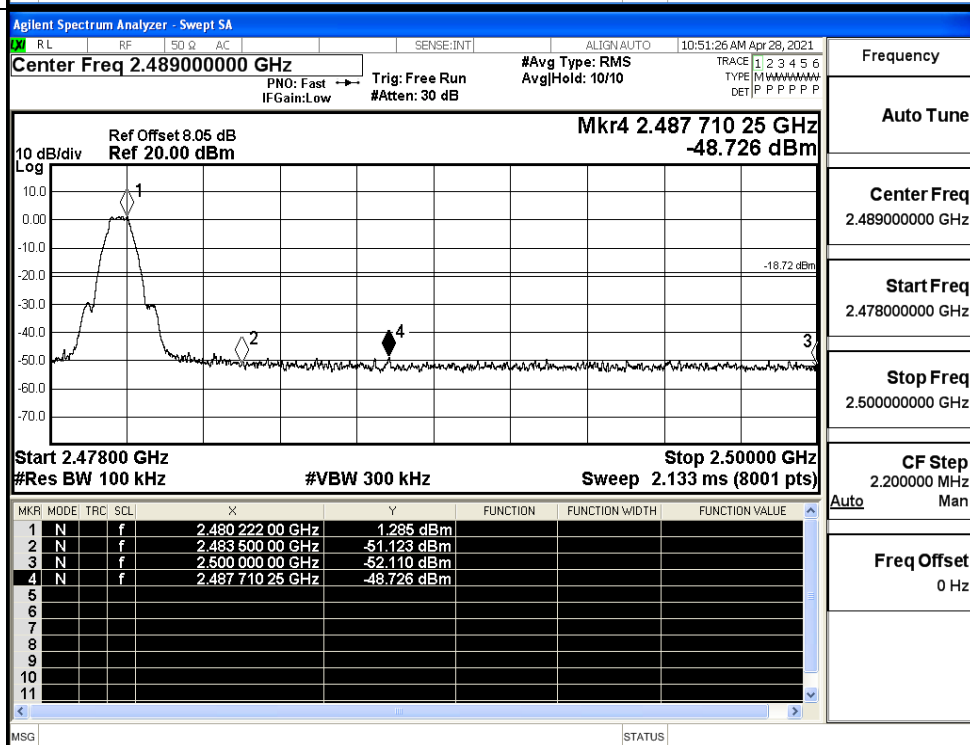
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.256	-50.141	-20.26	PASS
BT LE	HCH	1.285	-48.726	-18.72	PASS

Test Graphs

LCH



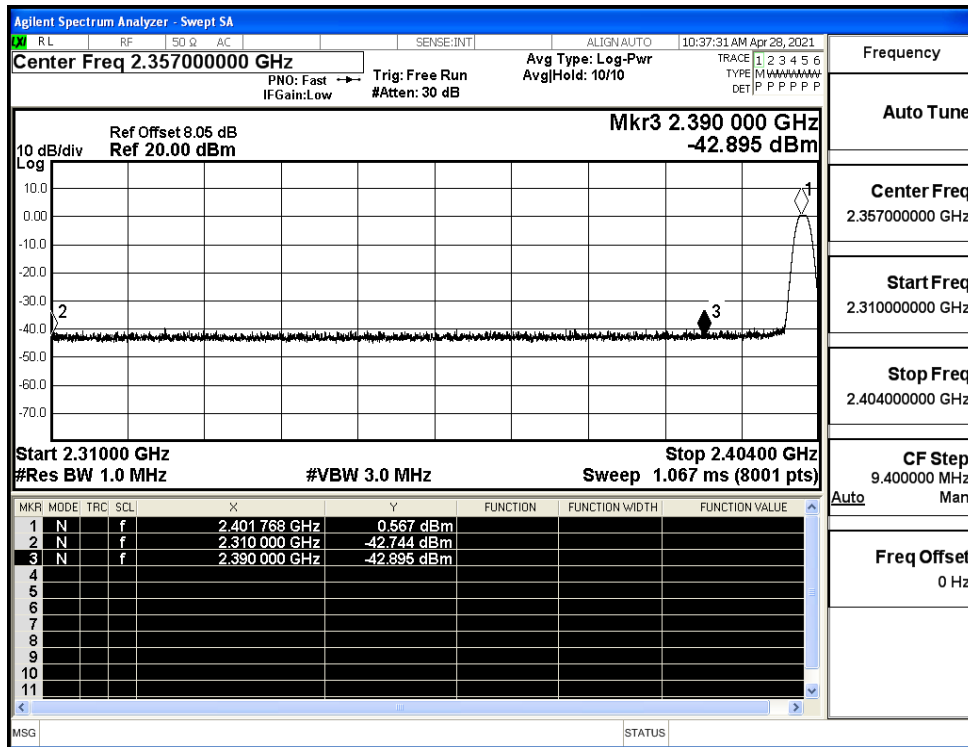
HCH



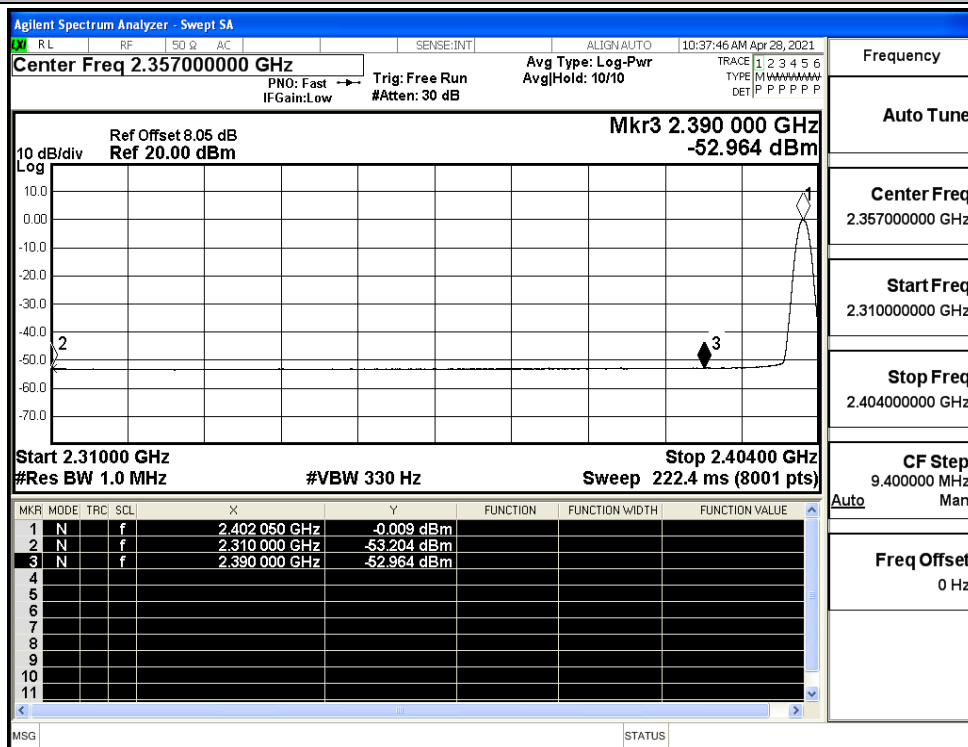
A.7 Restrict-band band-edge measurements

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	-42.74	4.6	0	57.09	PEAK	74	PASS
		Ant1	2310.0	-53.20	4.6	0	46.63	AV	54	PASS
		Ant1	2390.0	-42.90	4.6	0	56.93	PEAK	74	PASS
		Ant1	2390.0	-52.96	4.6	0	46.87	AV	54	PASS
	2480	Ant1	2483.5	-41.25	4.6	0	58.58	PEAK	74	PASS
		Ant1	2483.5	-51.07	4.6	0	48.76	AV	54	PASS
		Ant1	2500.0	-41.21	4.6	0	58.62	PEAK	74	PASS
		Ant1	2500.0	-52.28	4.6	0	47.55	AV	54	PASS

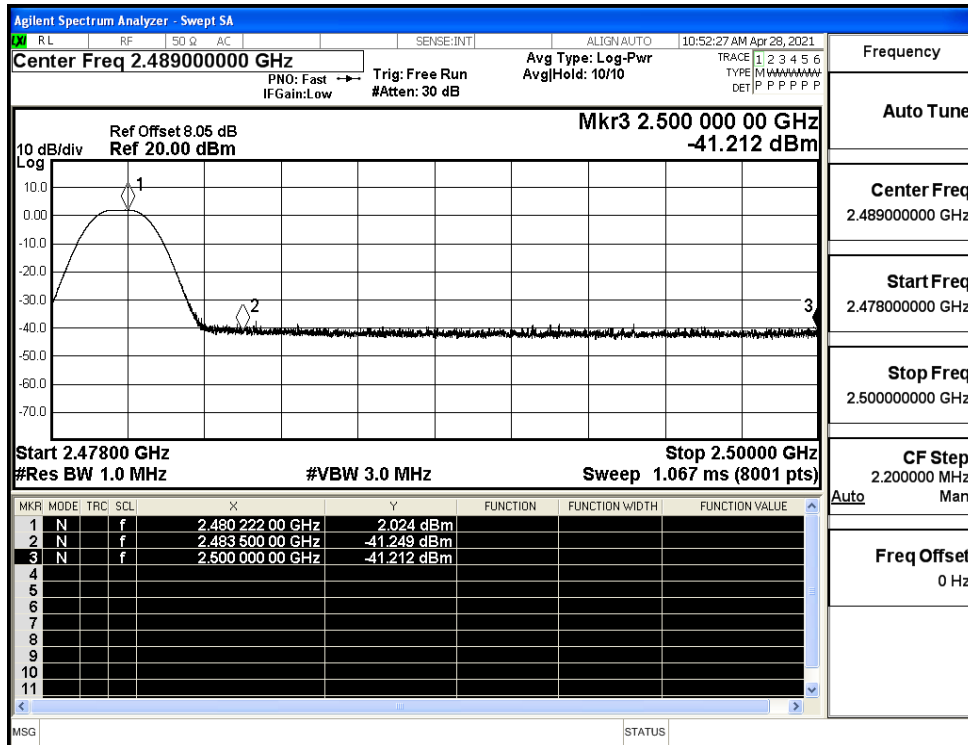
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

