

Appendix B

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

Product Name: Surface mounted Ceiling Lamp LED 24W

Trade Mark: Artika

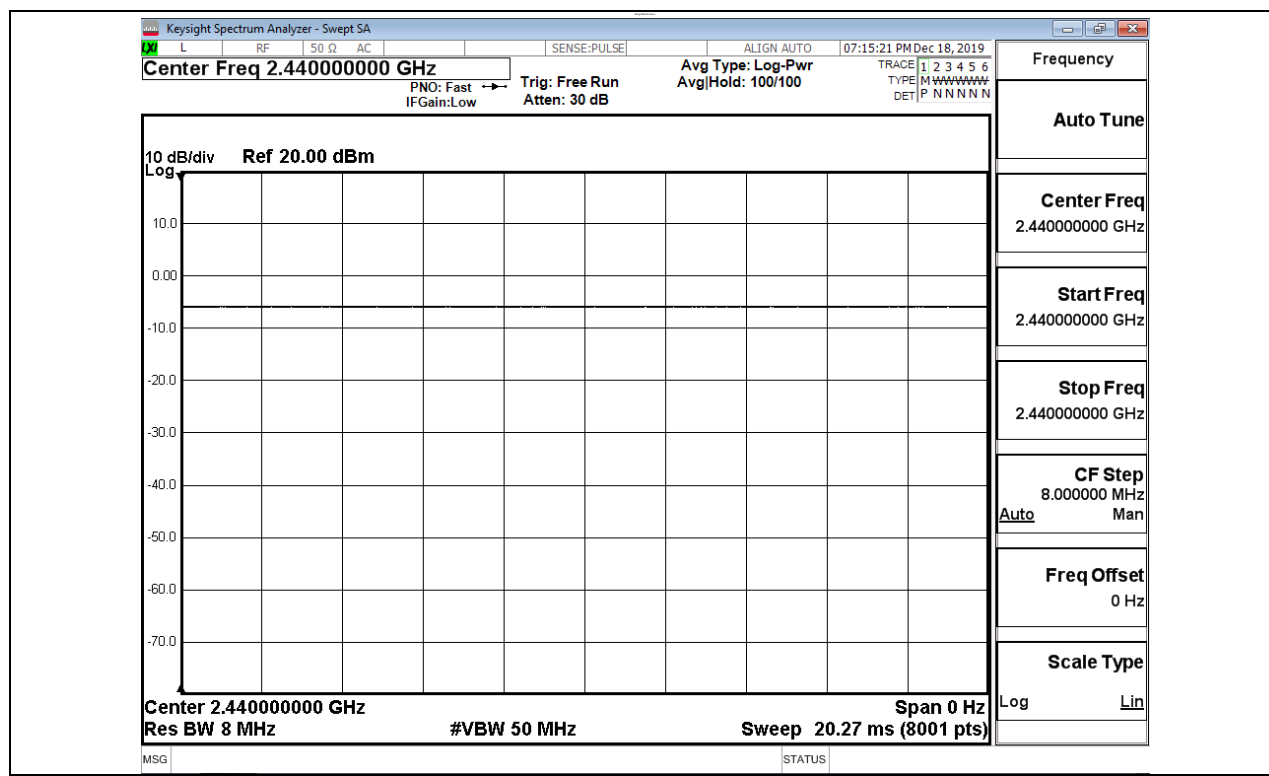
Test Model: CL-GLX-C

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Dana Tang
Supervised by:	Jayden Zhuo

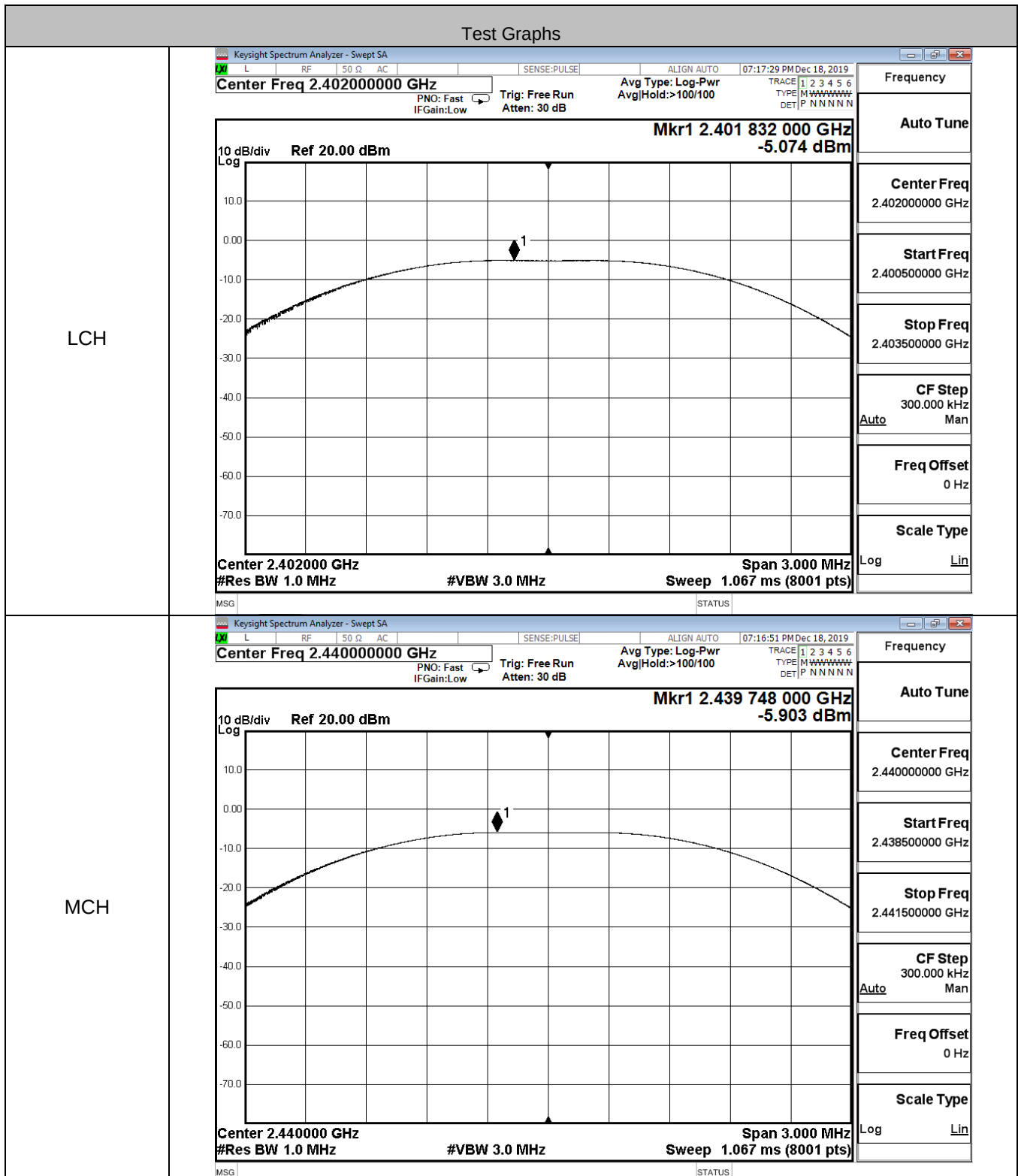
A.1 Duty Cycle

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

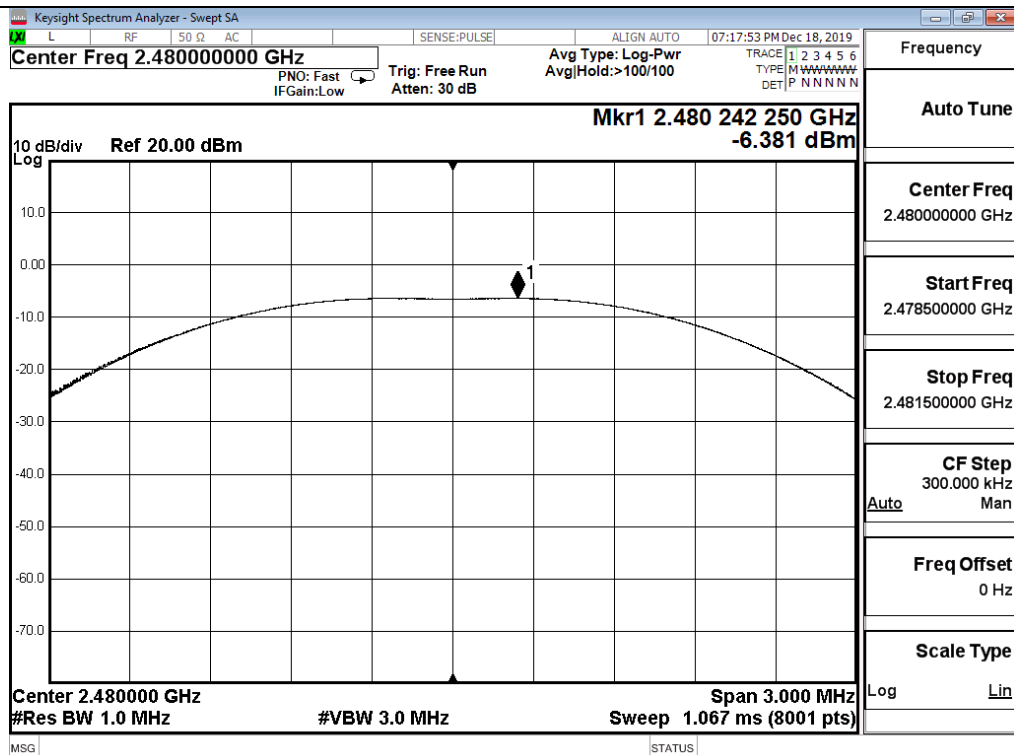


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.074	30	PASS
BT LE	MCH	-5.903	30	PASS
BT LE	HCH	-6.381	30	PASS



HCH

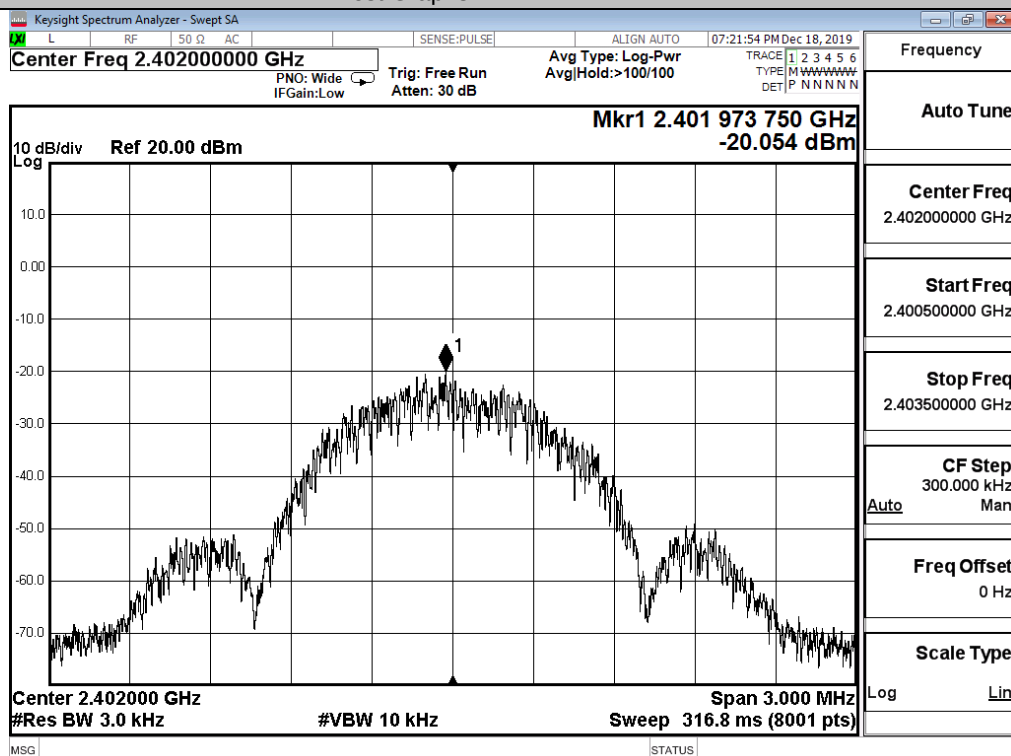


A.3 Maximum Power Spectral Density

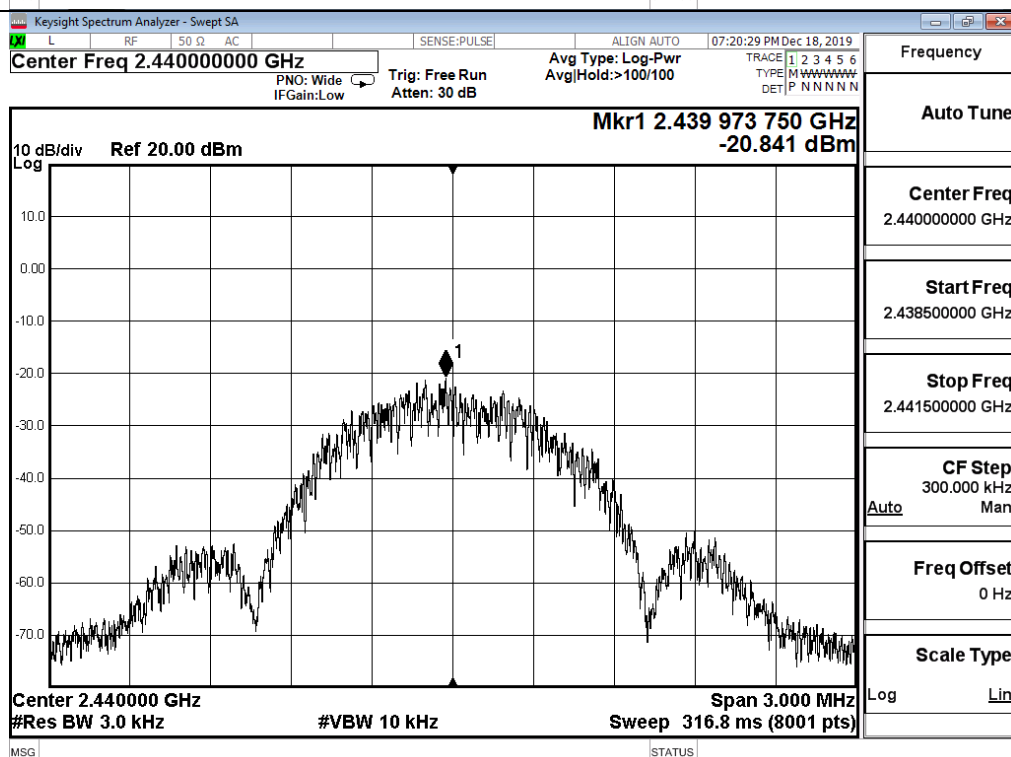
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-20.054	8	PASS
BT LE	MCH	-20.841	8	PASS
BT LE	HCH	-21.263	8	PASS

Test Graphs

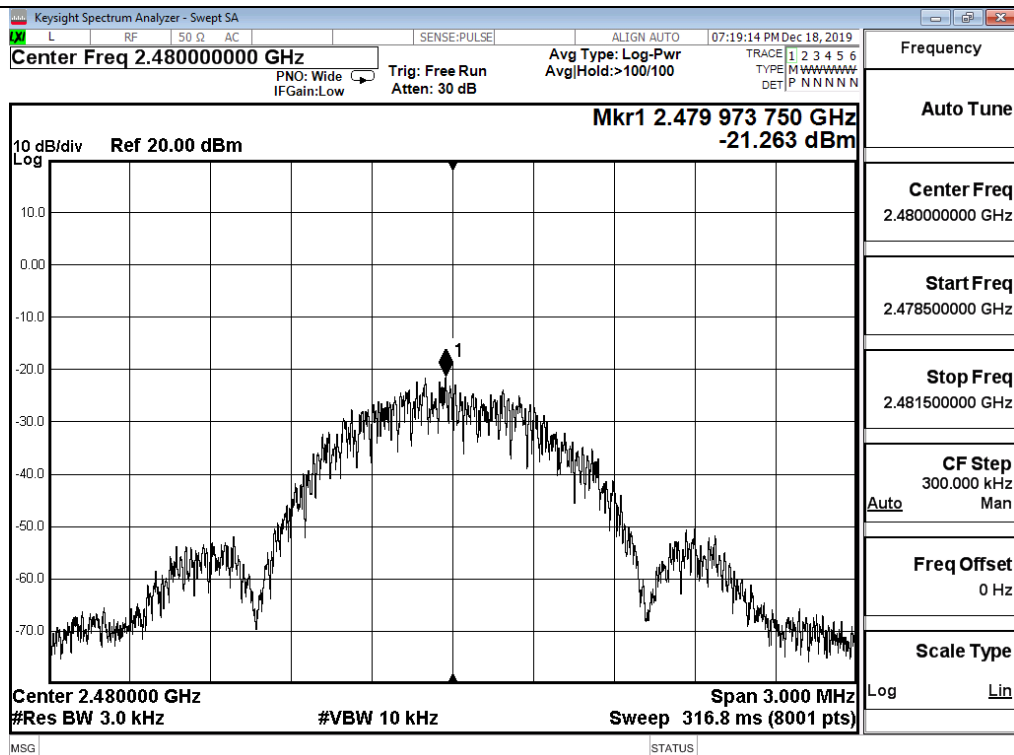
LCH



MCH



HCH

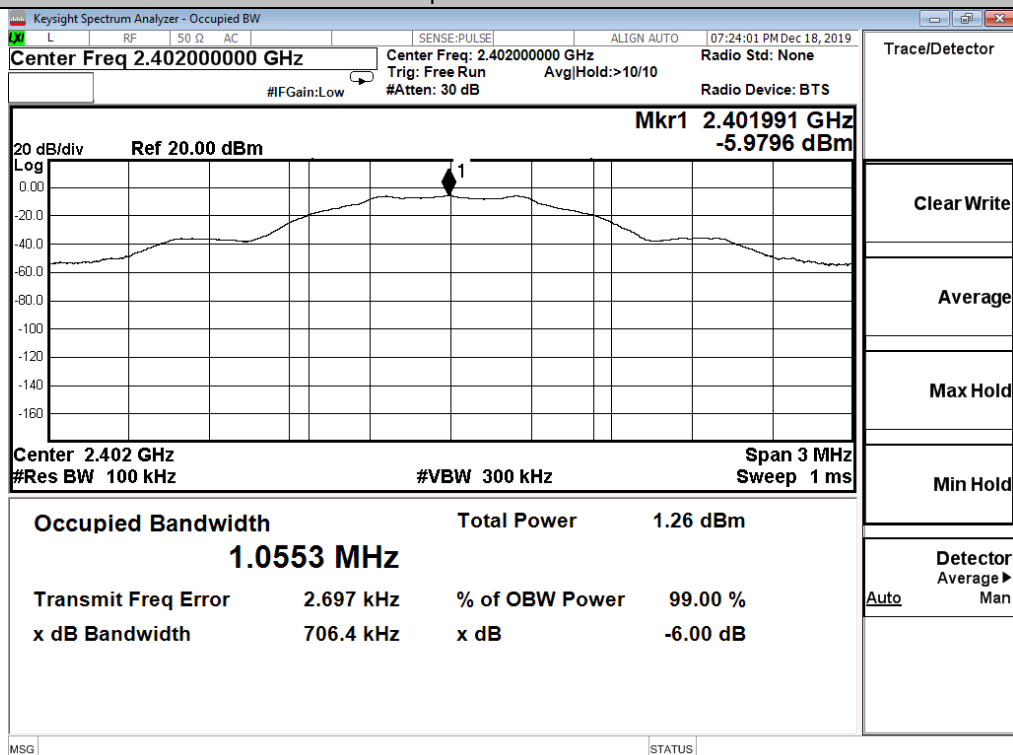


A.4 6dB Bandwidth

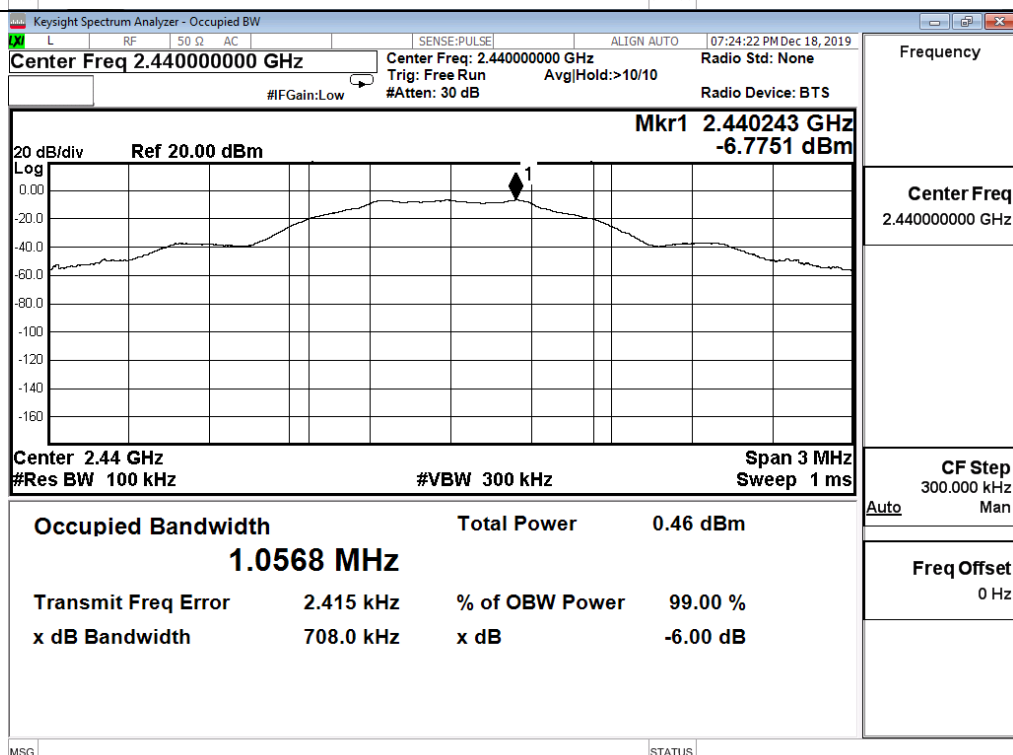
Mode	Channel	6dB Bandwidth [MHz]	6dB Bandwidth Limit [MHz]	Verdict
BT LE	LCH	0.7064	≥0.5	PASS
BT LE	MCH	0.7080	≥0.5	PASS
BT LE	HCH	0.7019	≥0.5	PASS

Test Graphs

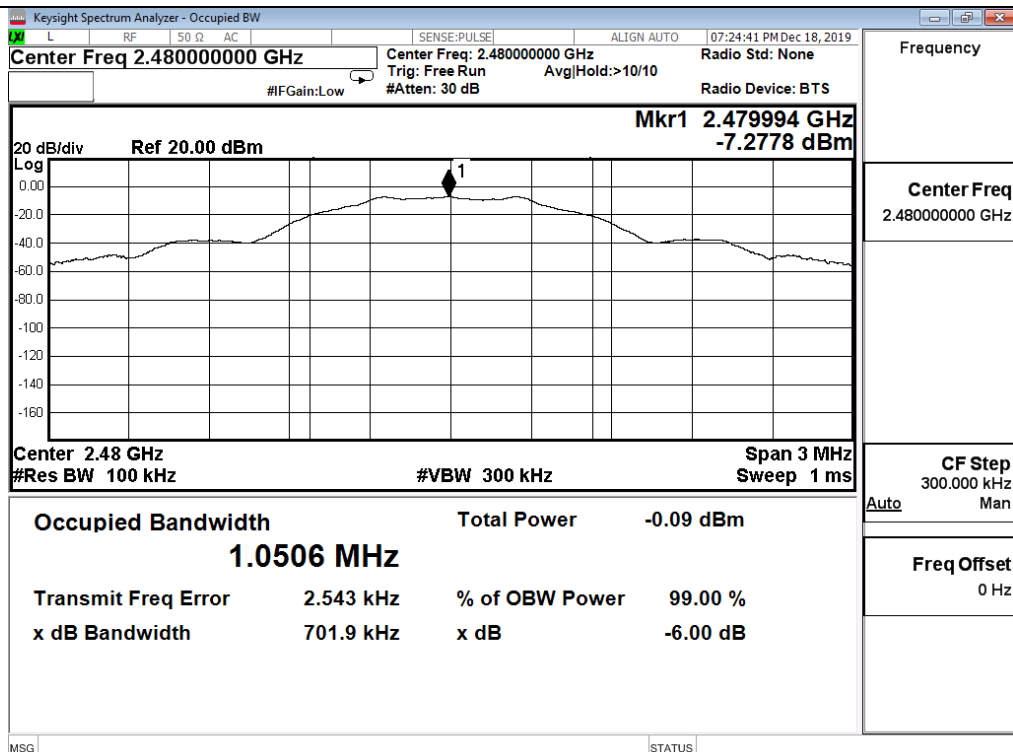
LCH



MCH



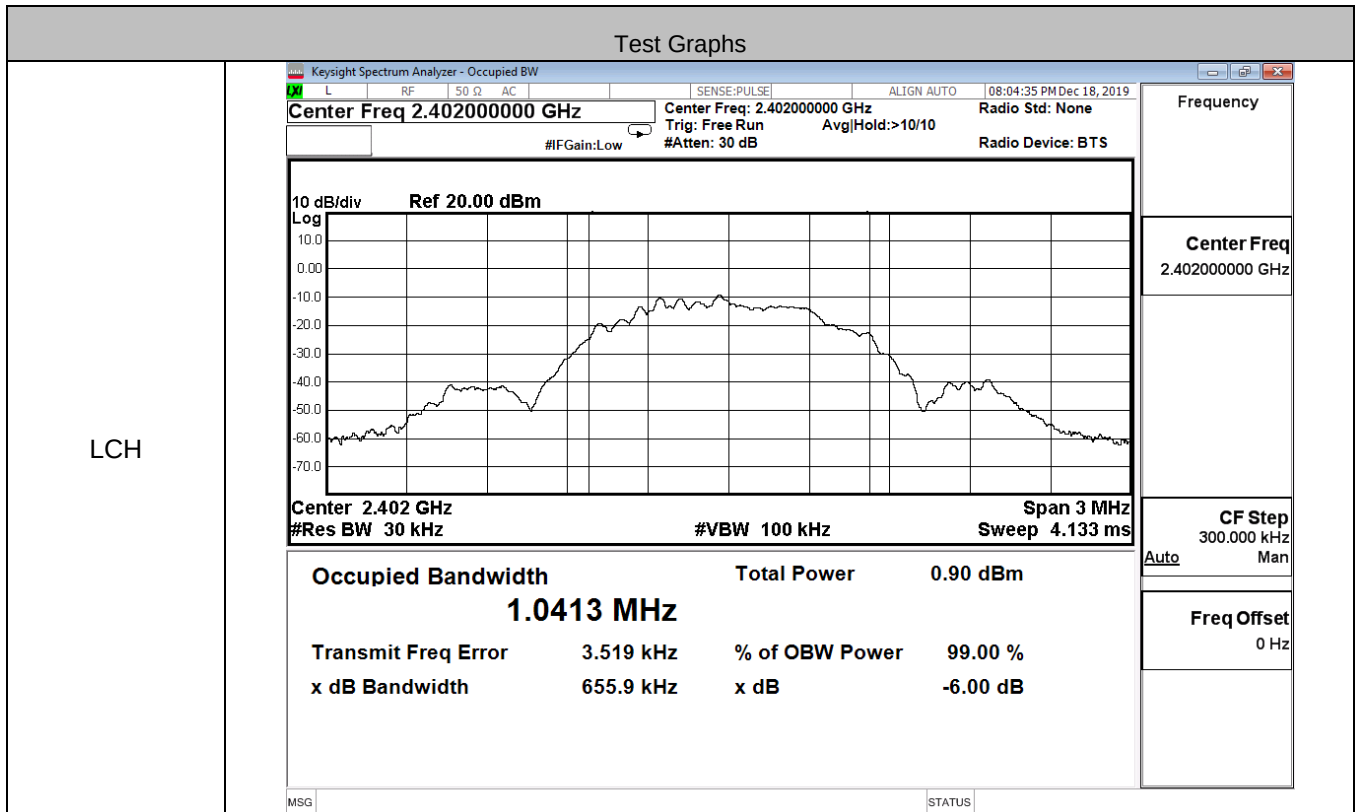
HCH



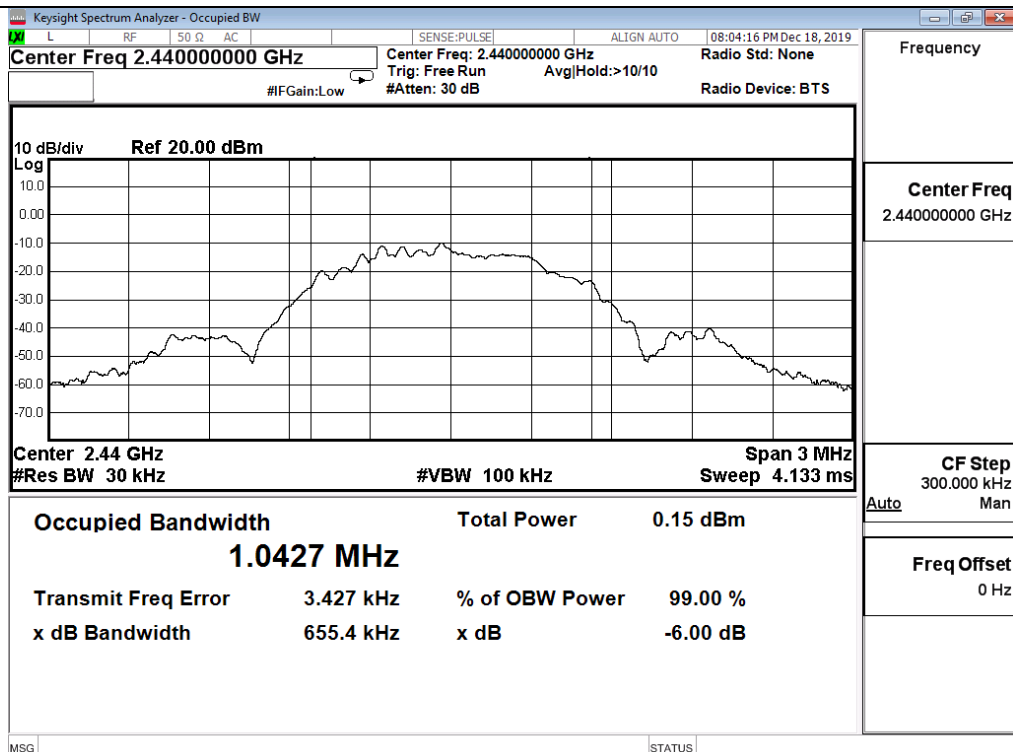
A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth (99%)[MHz]	Occupied Bandwidth Limit [MHz]	Verdict
BT LE	LCH	1.0413	--	PASS
BT LE	MCH	1.0427	--	PASS
BT LE	HCH	1.0376	--	PASS

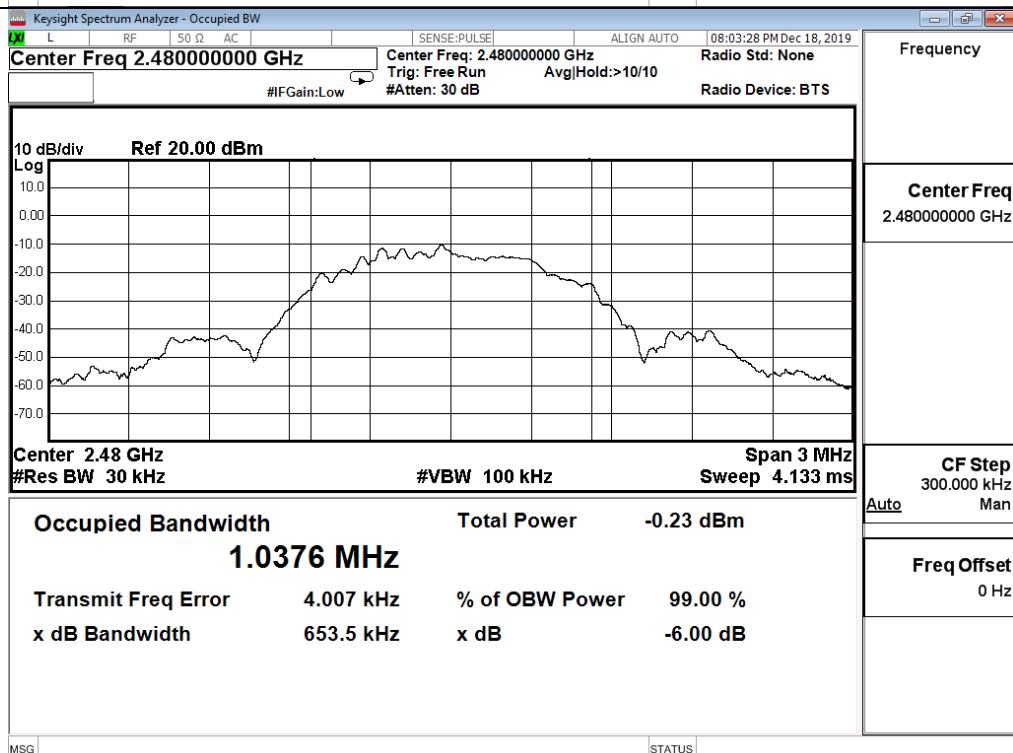
Test Graphs



MCH



HCH

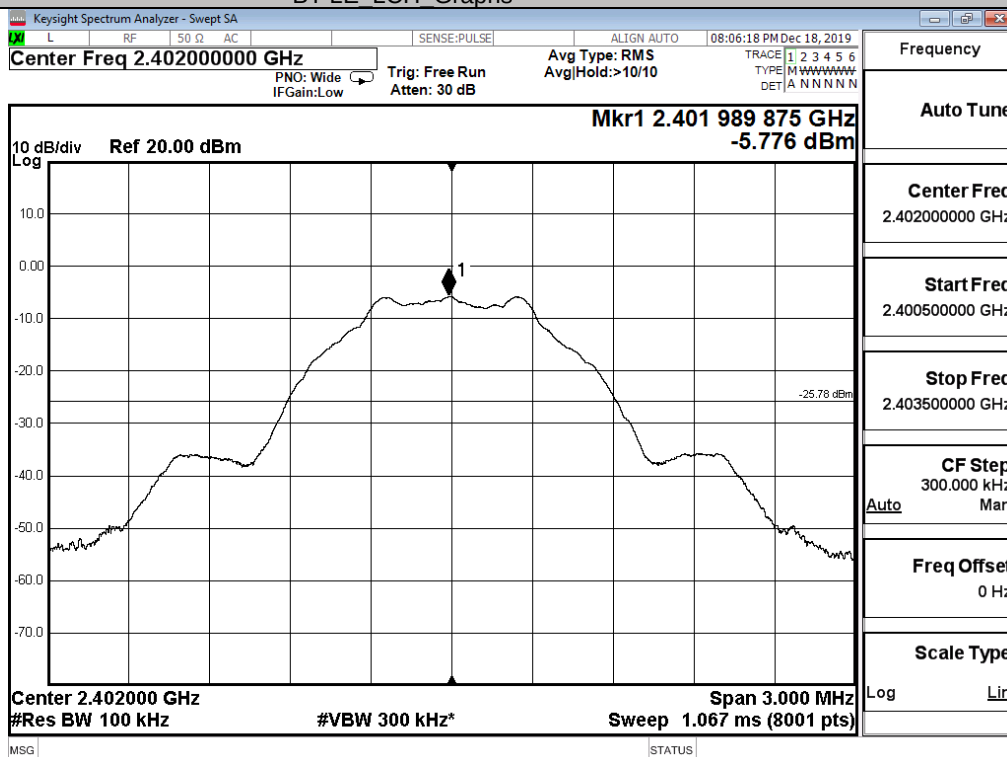


A.6 RF Conducted Spurious Emissions

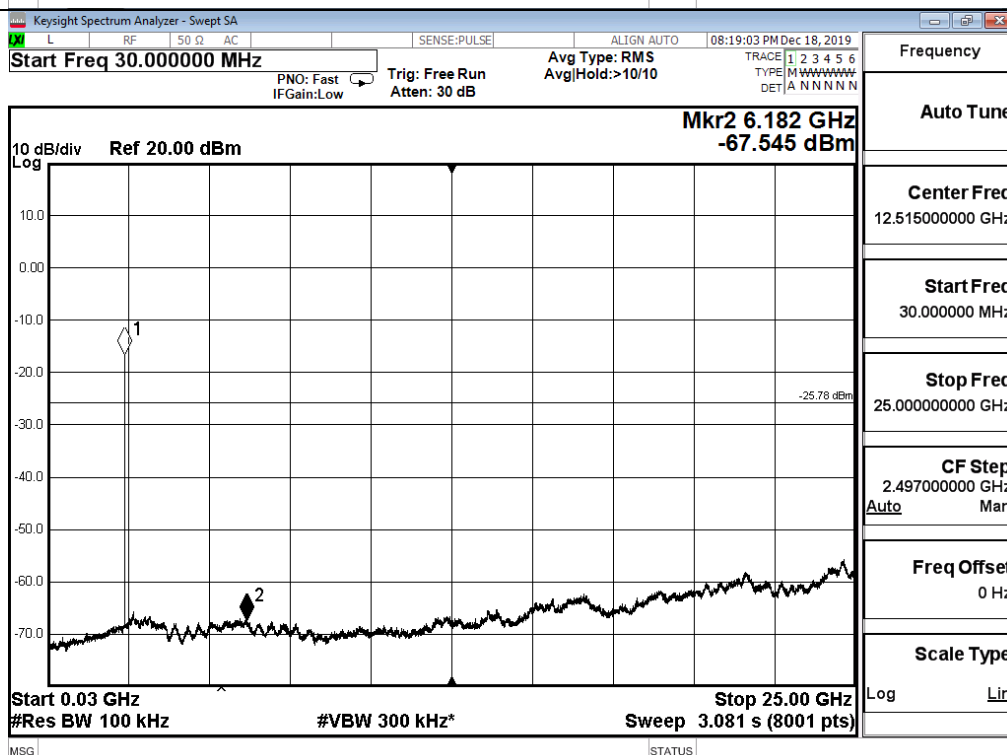
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.776	-67.545	-25.78	PASS
BT LE	MCH	-6.607	-67.244	-26.61	PASS
BT LE	HCH	-7.013	-67.415	-27.04	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

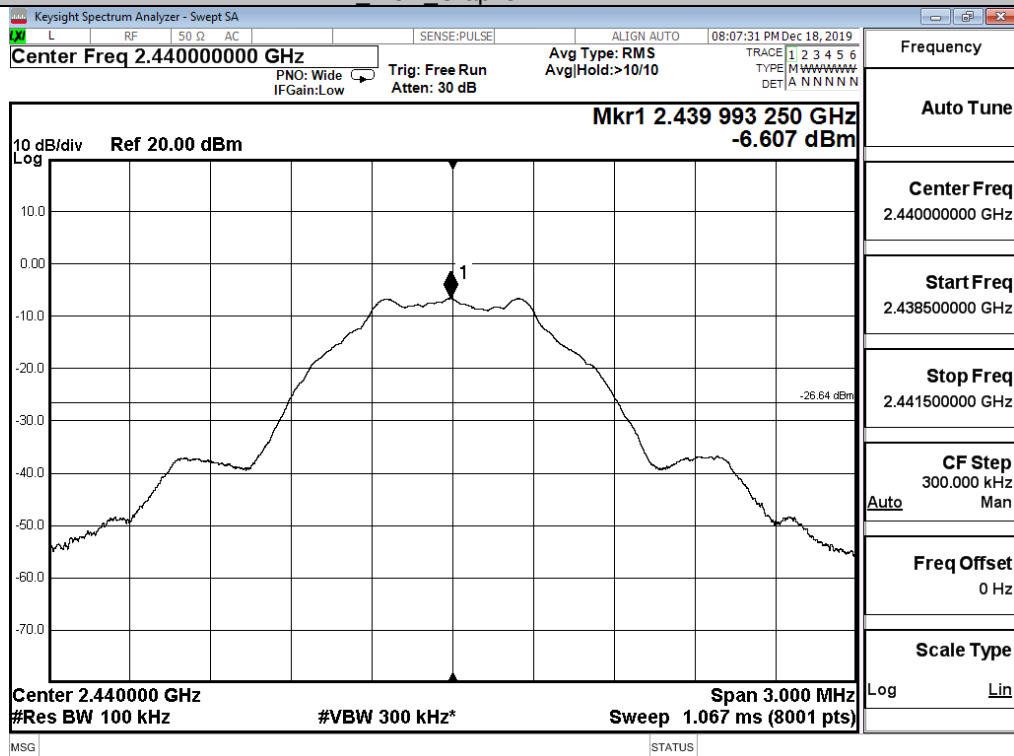


Puw/BT LE/LCH

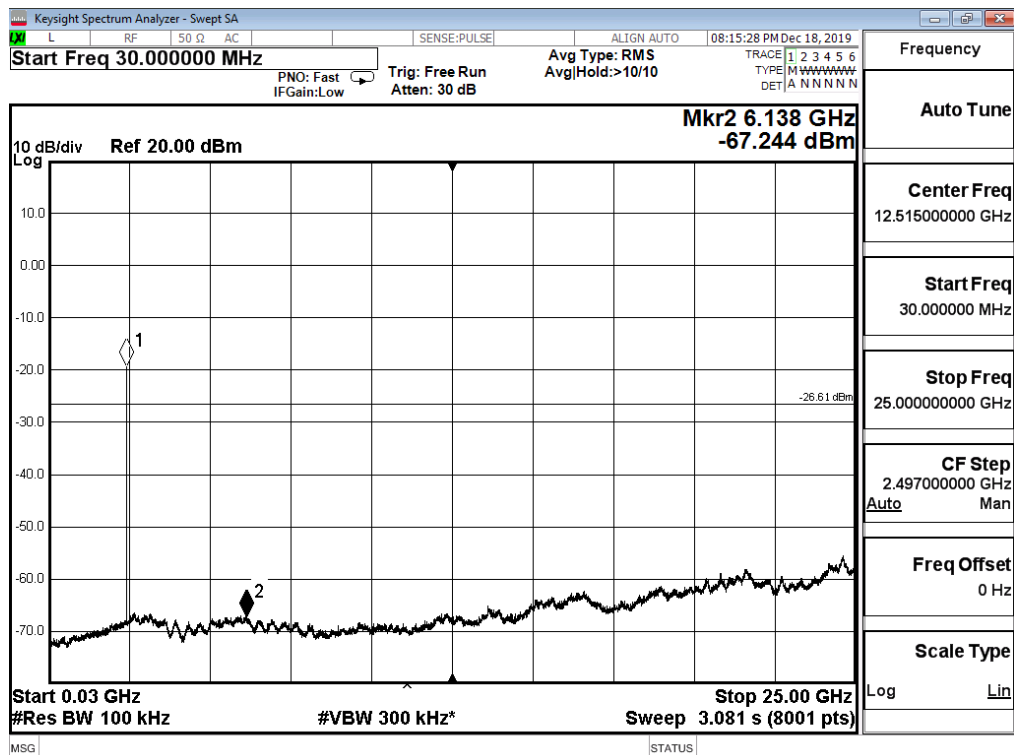


BT LE_MCH Graphs

Pref/BT LE/MCH

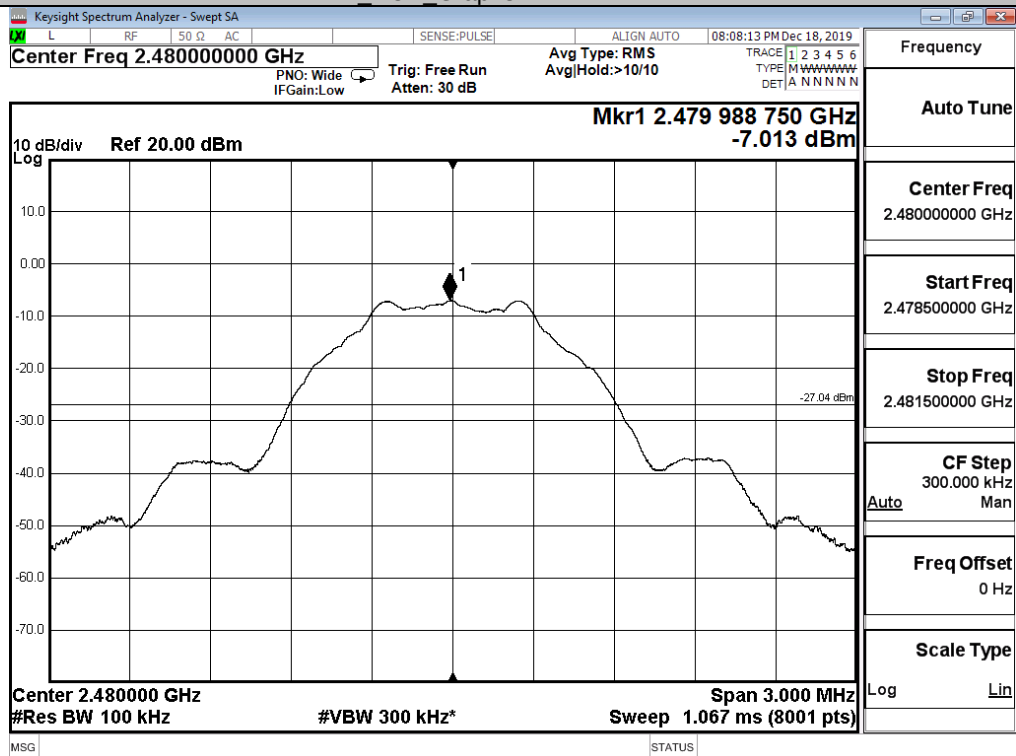


Puw/BT LE/MCH

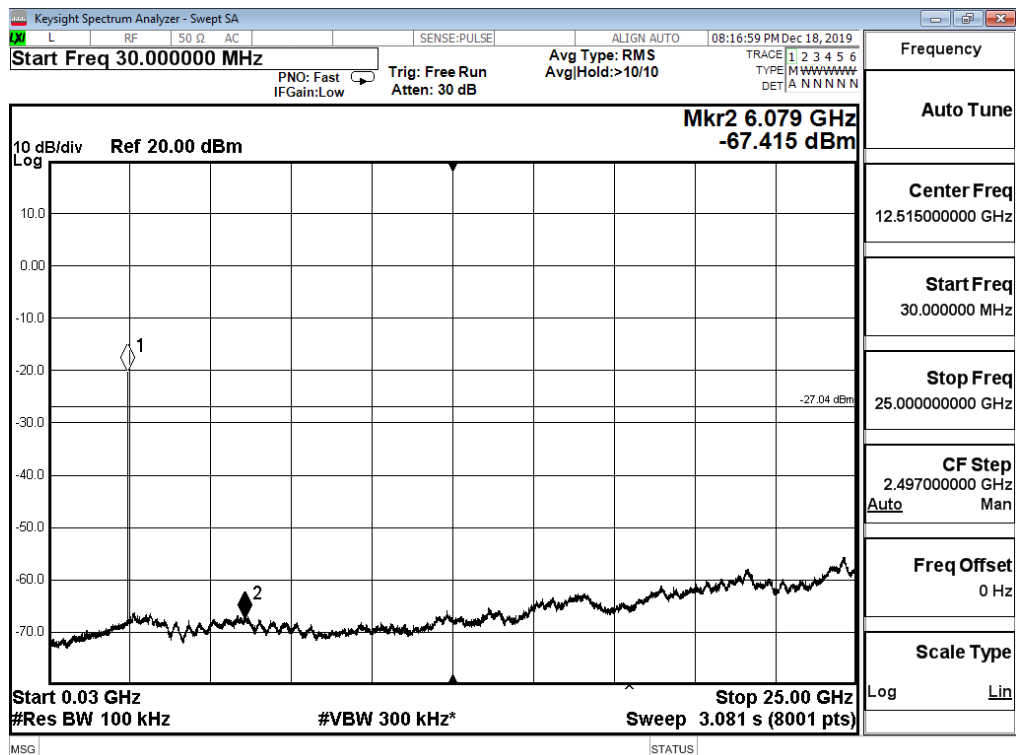


BT LE HCH Graphs

Pref/BT LE/HCH



PuW/BT LE/HCH

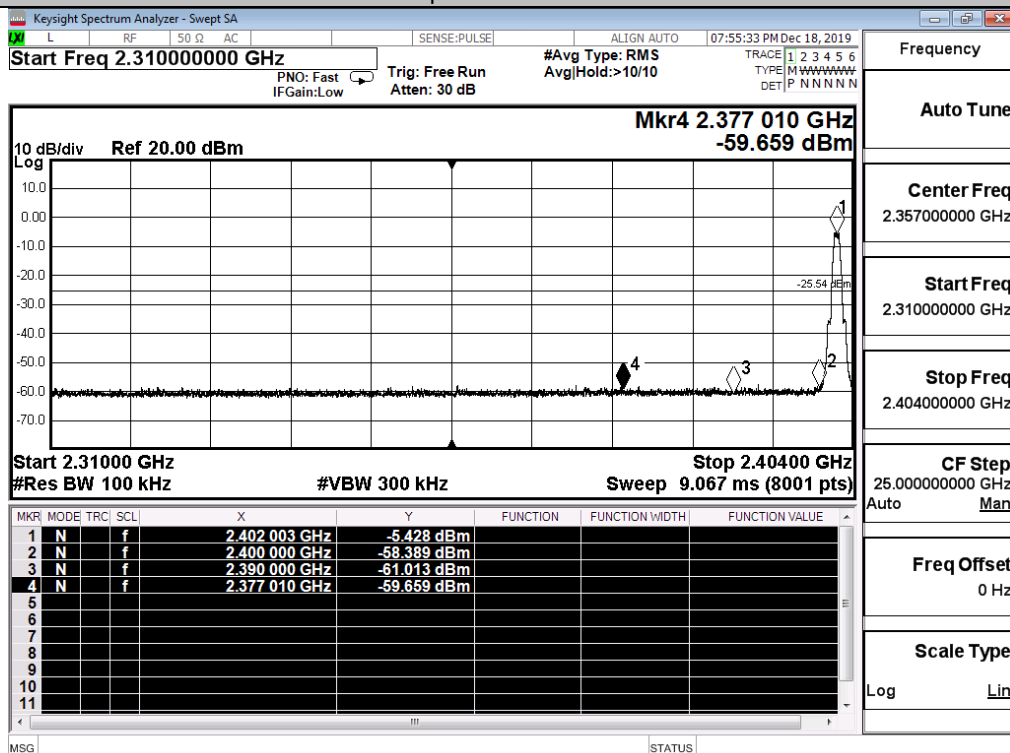


A.7 Band-edge for RF Conducted Emissions

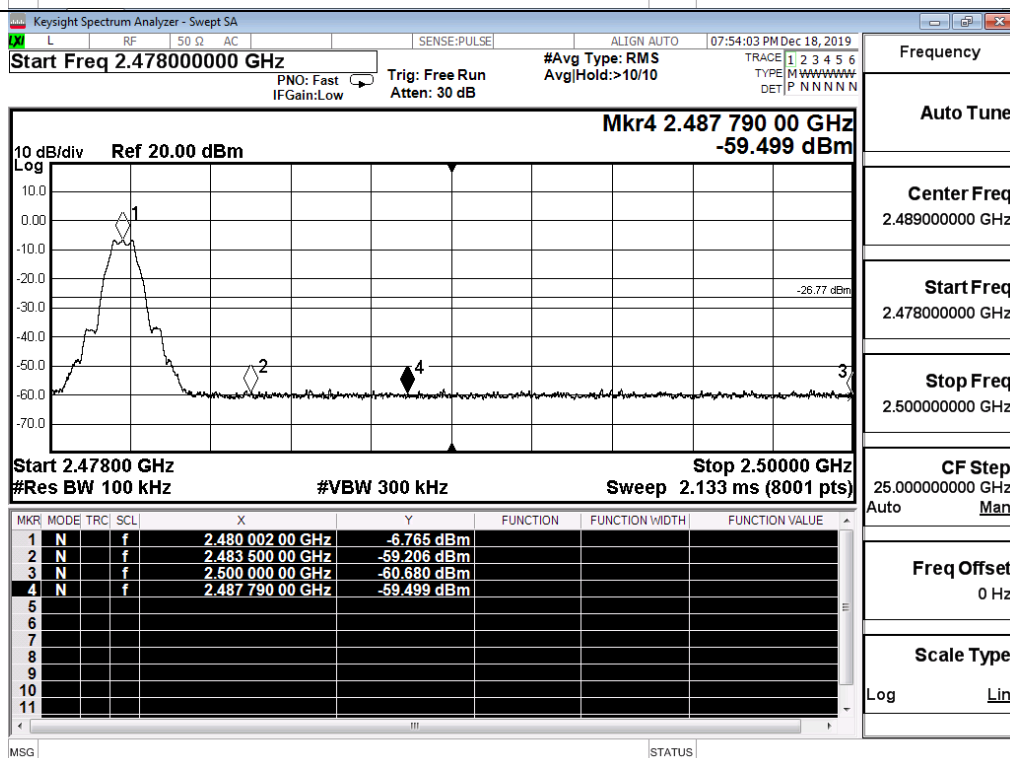
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.428	-59.659	-25.54	PASS
BT LE	HCH	-6.765	-59.499	-26.77	PASS

Test Graphs

LCH



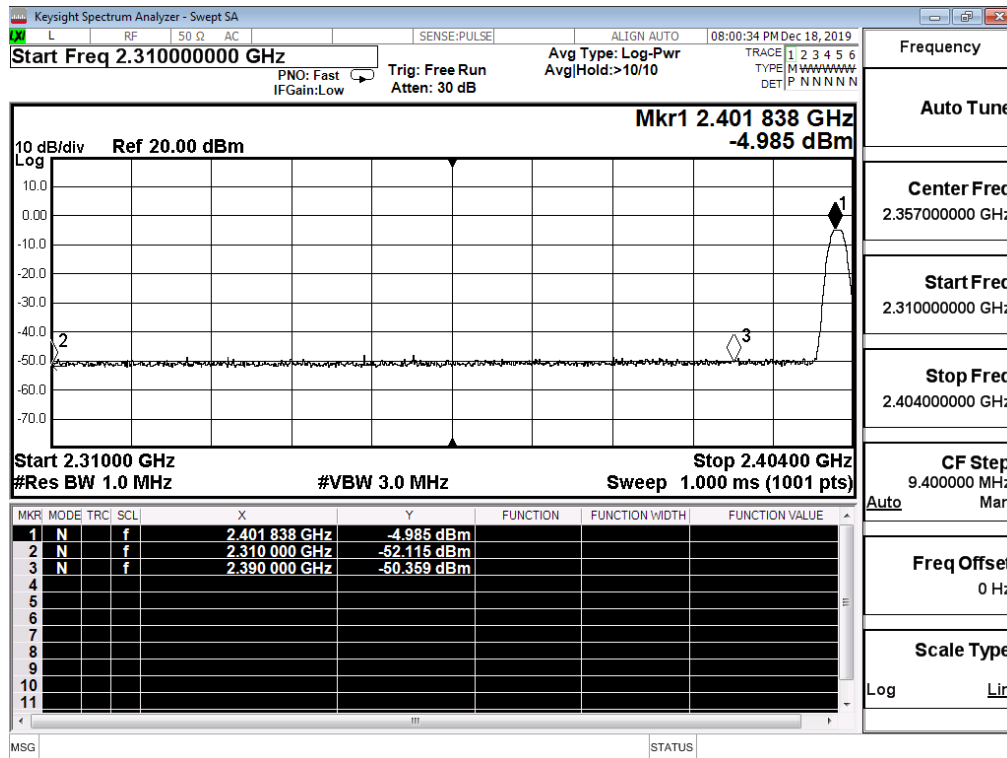
HCH



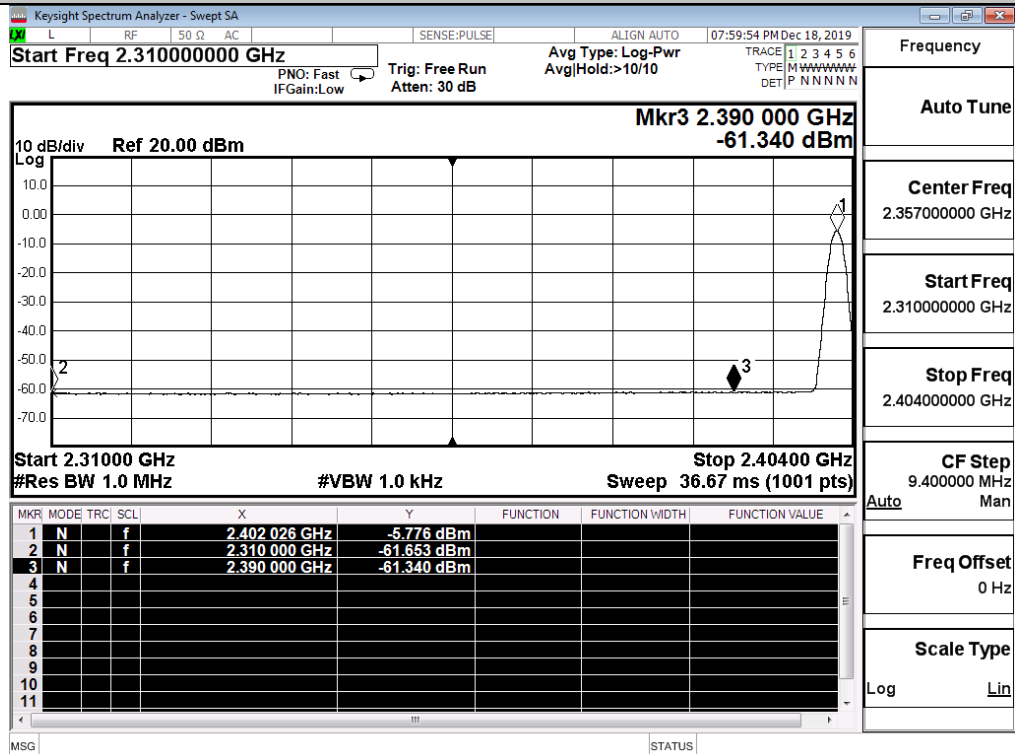
A.8 Restrict-band band-edge measurements

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	-52.115	2.5	0	45.65	PEAK	74	PASS
		Ant1	2310.0	-61.653	2.5	0	36.11	AV	54	PASS
		Ant1	2390.0	-50.359	2.5	0	47.40	PEAK	74	PASS
		Ant1	2390.0	-61.340	2.5	0	36.42	AV	54	PASS
	2480	Ant1	2483.5	-50.712	2.5	0	47.05	PEAK	74	PASS
		Ant1	2483.5	-61.000	2.5	0	36.76	AV	54	PASS
		Ant1	2500.0	-50.547	2.5	0	47.21	PEAK	74	PASS
		Ant1	2500.0	-60.717	2.5	0	37.04	AV	54	PASS

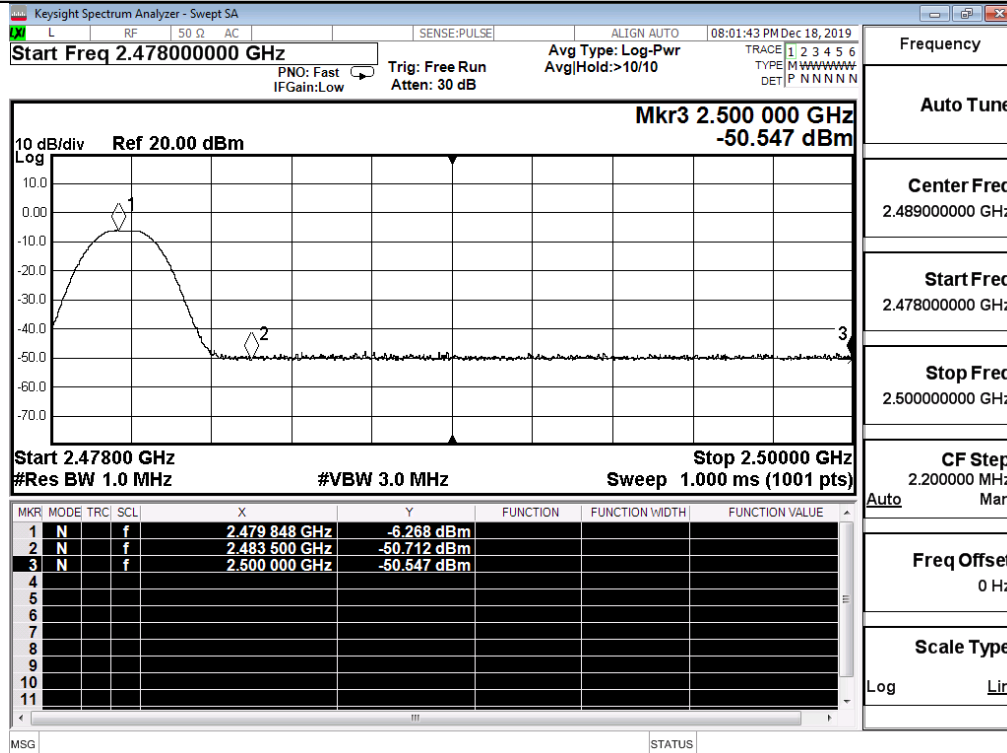
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

