

Appendix B

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

Product Name: White Noise Machine

Trade Mark: Mintal

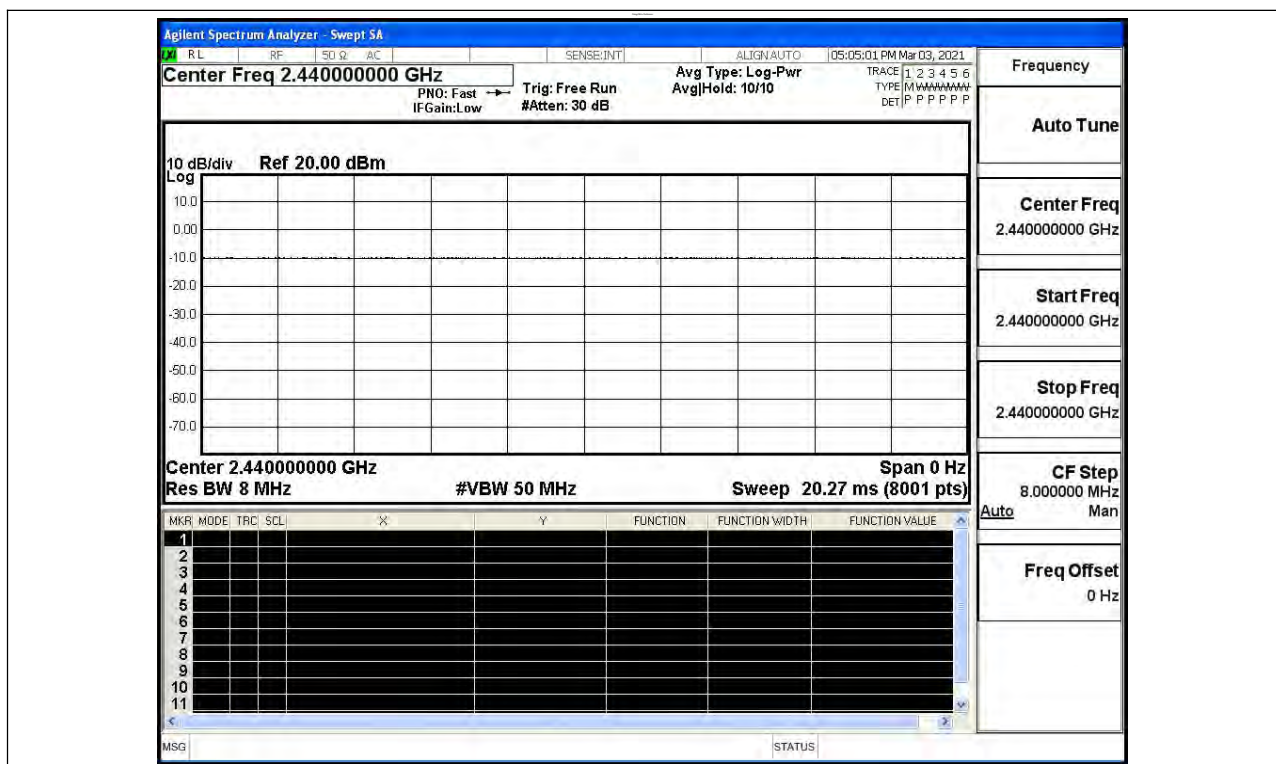
Test Model: MW01

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

B.1 Duty Cycle

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

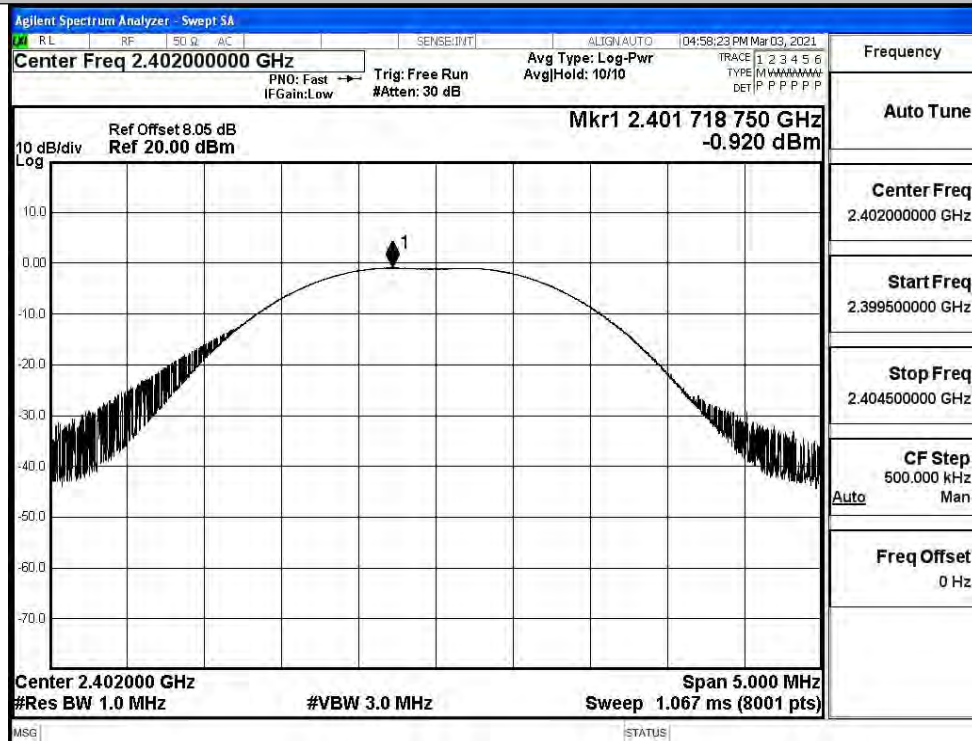


B.2 Maximum Conducted Peak Output Power

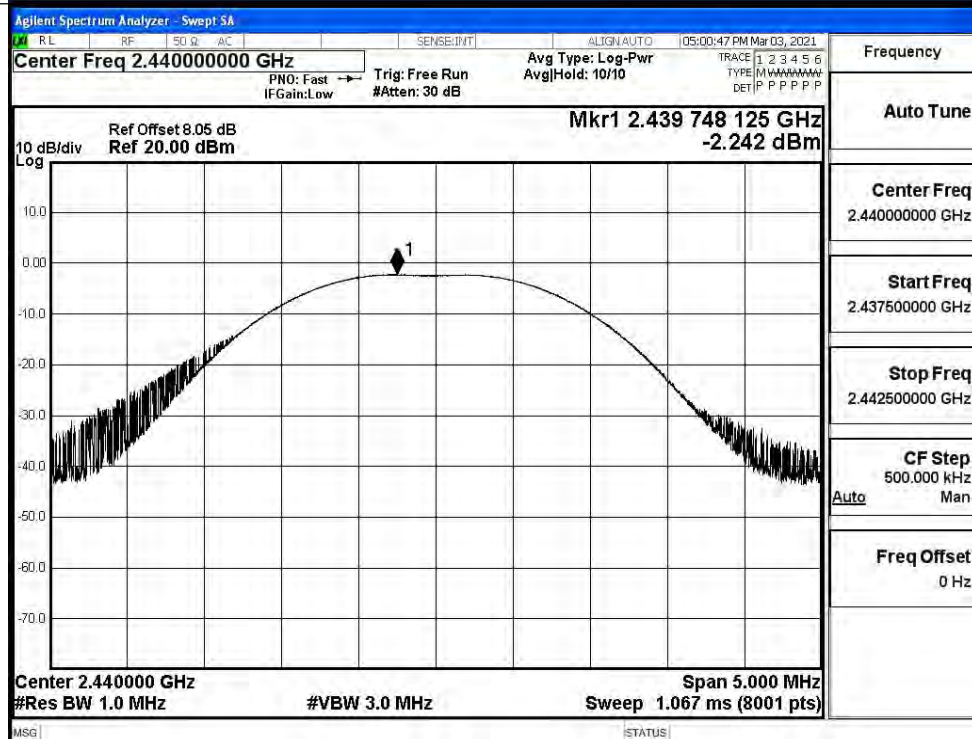
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.920	30	PASS
BT LE	MCH	-2.242	30	PASS
BT LE	HCH	-3.568	30	PASS

Test Graphs

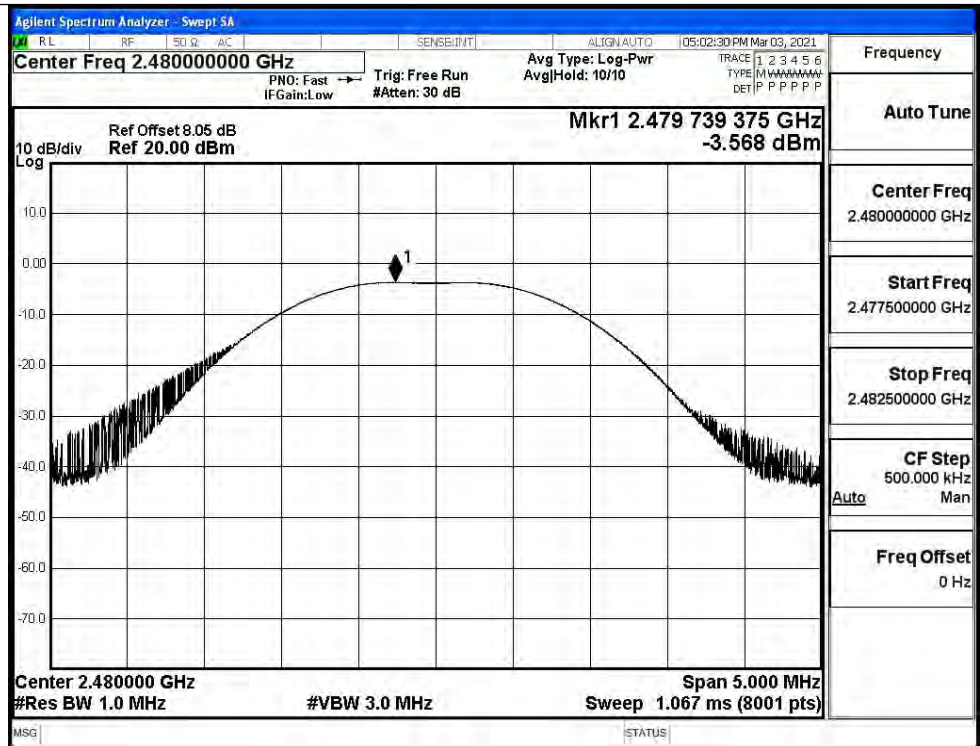
LCH



MCH



HCH

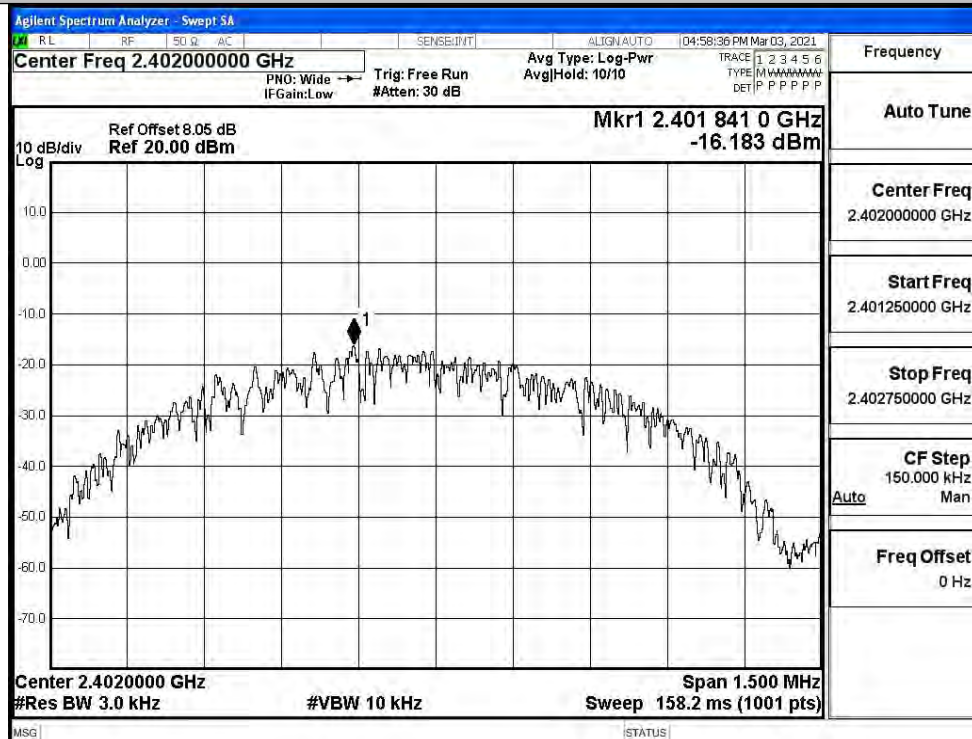


B.3 Maximum Power Spectral Density

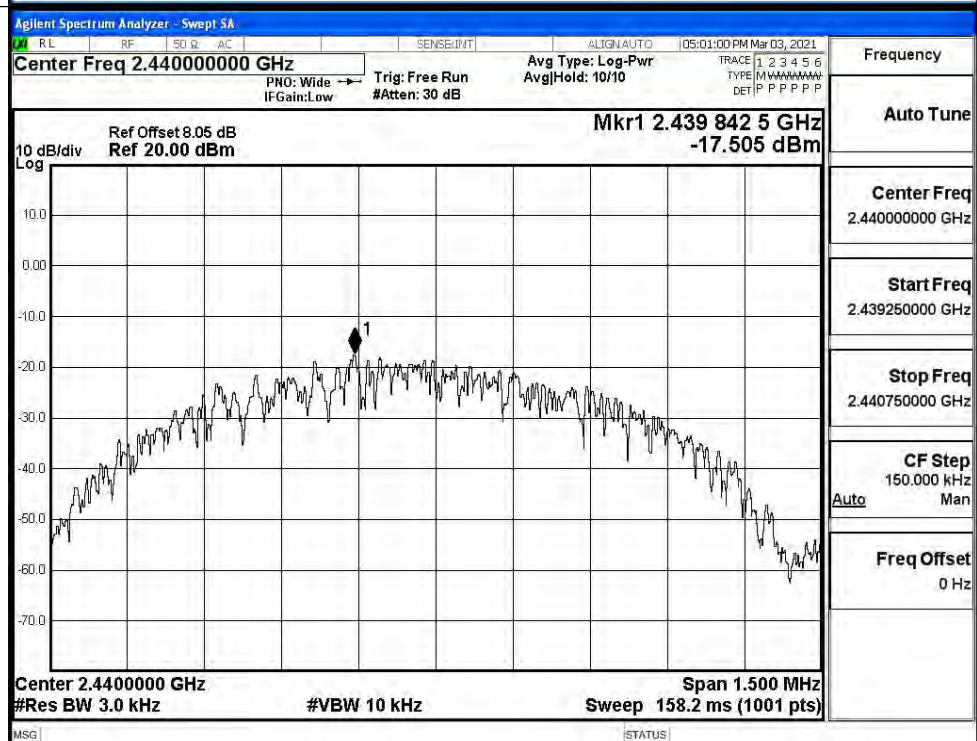
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.183	8	PASS
BT LE	MCH	-17.505	8	PASS
BT LE	HCH	-18.916	8	PASS

Test Graphs

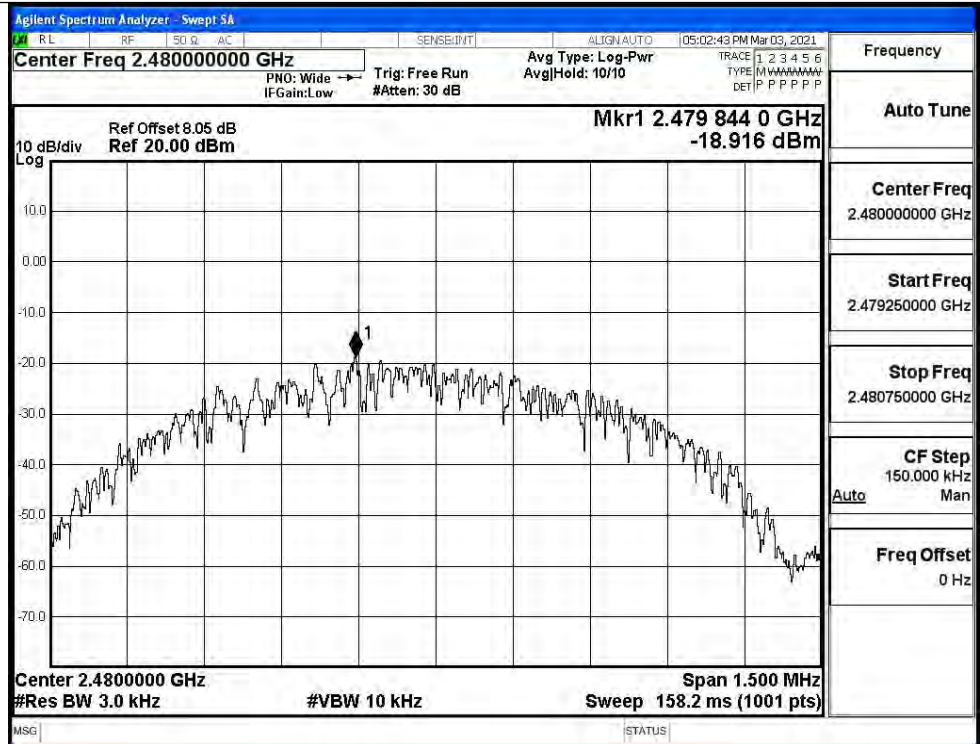
LCH



MCH



HCH

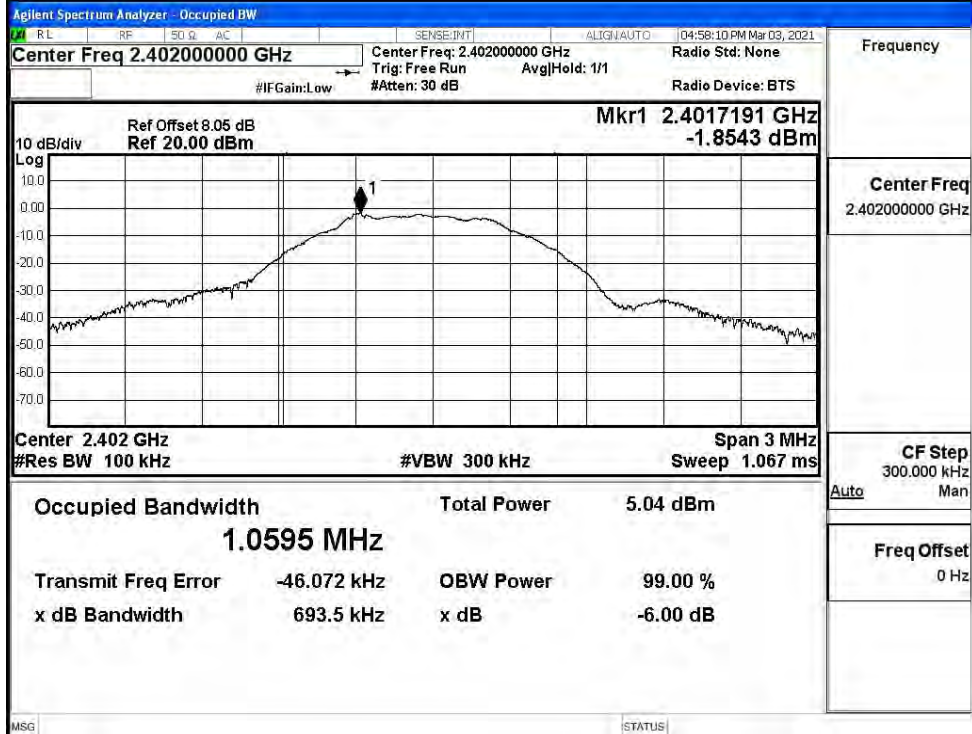


B.4 6dB Bandwidth

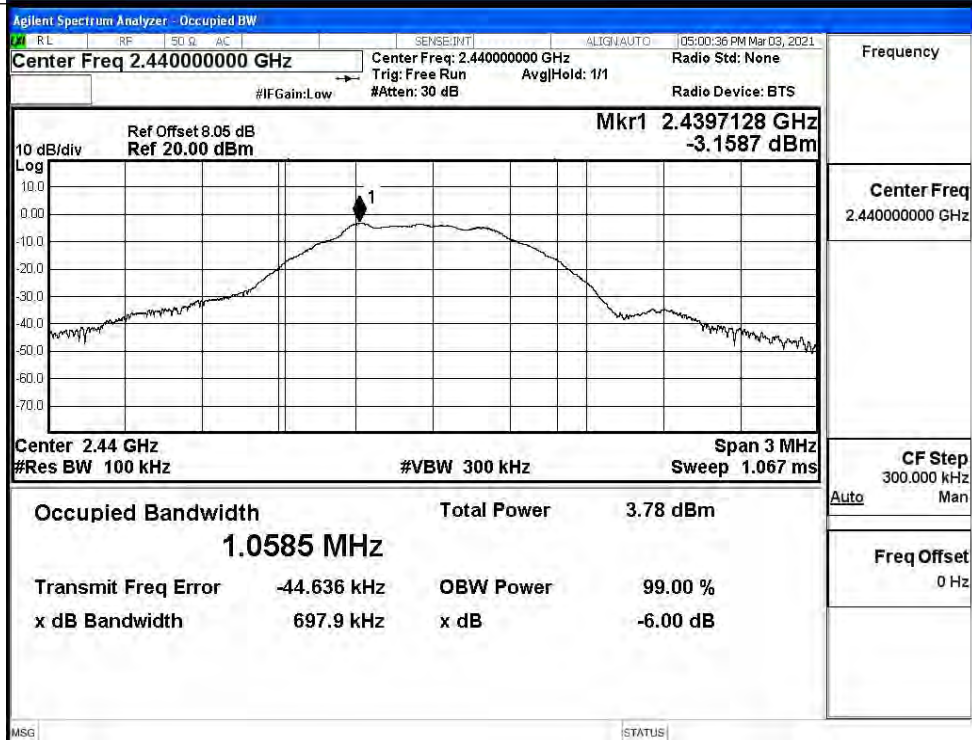
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6935	≥ 0.5	PASS
BT LE	MCH	0.6979	≥ 0.5	PASS
BT LE	HCH	0.6990	≥ 0.5	PASS

Test Graphs

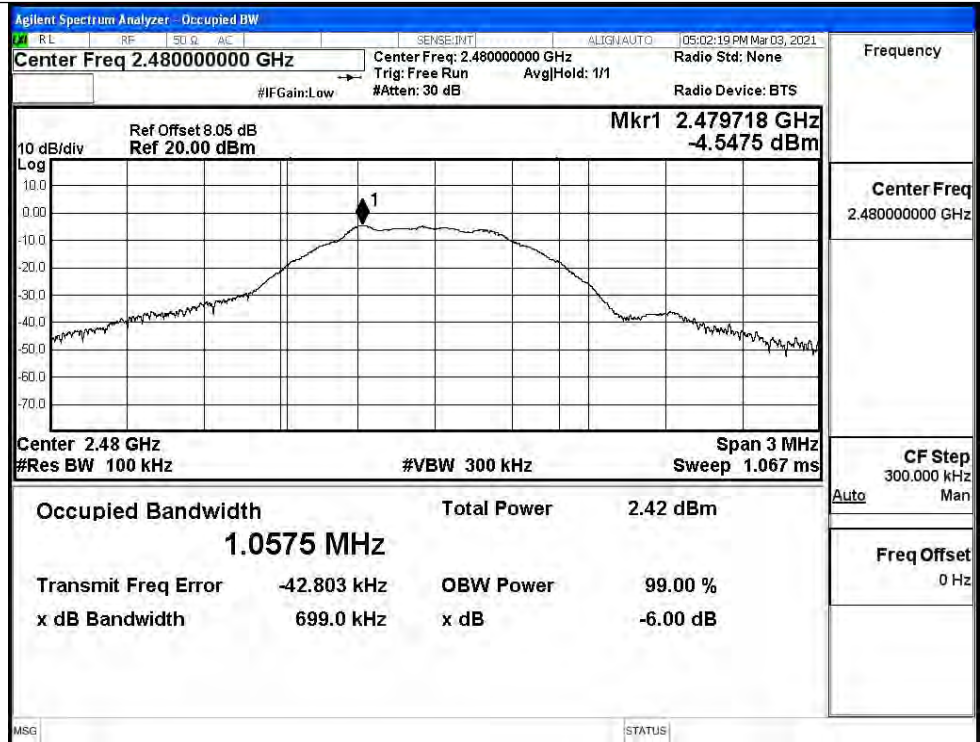
LCH



MCH



HCH

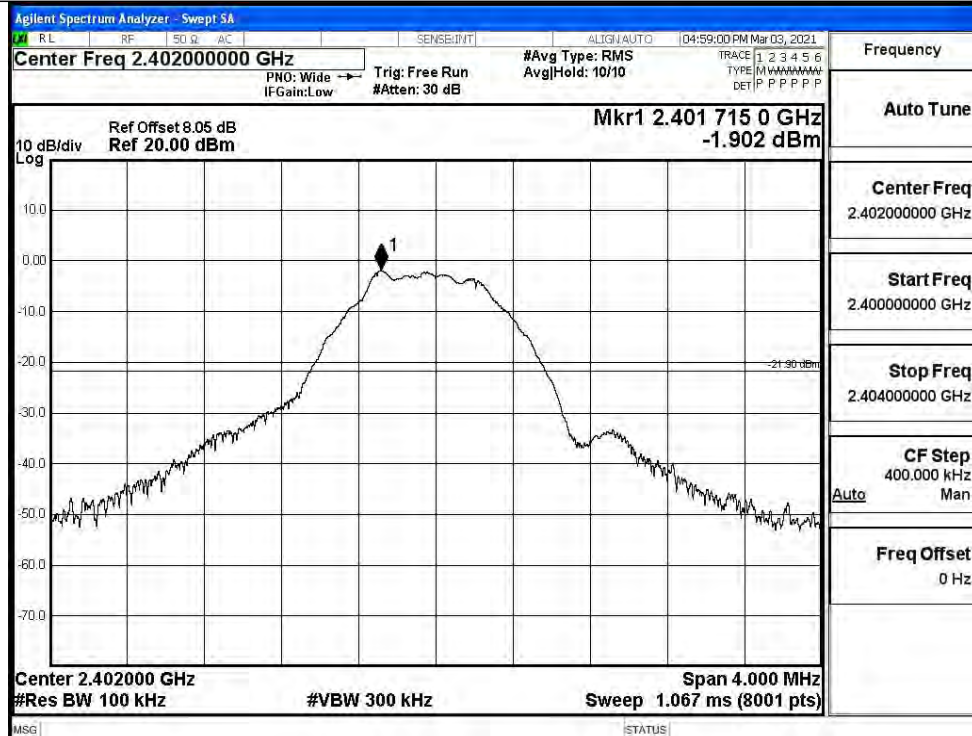


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.902	-37.240	-21.902	PASS
BT LE	MCH	-3.229	-37.035	-23.229	PASS
BT LE	HCH	-4.601	-37.350	-24.601	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

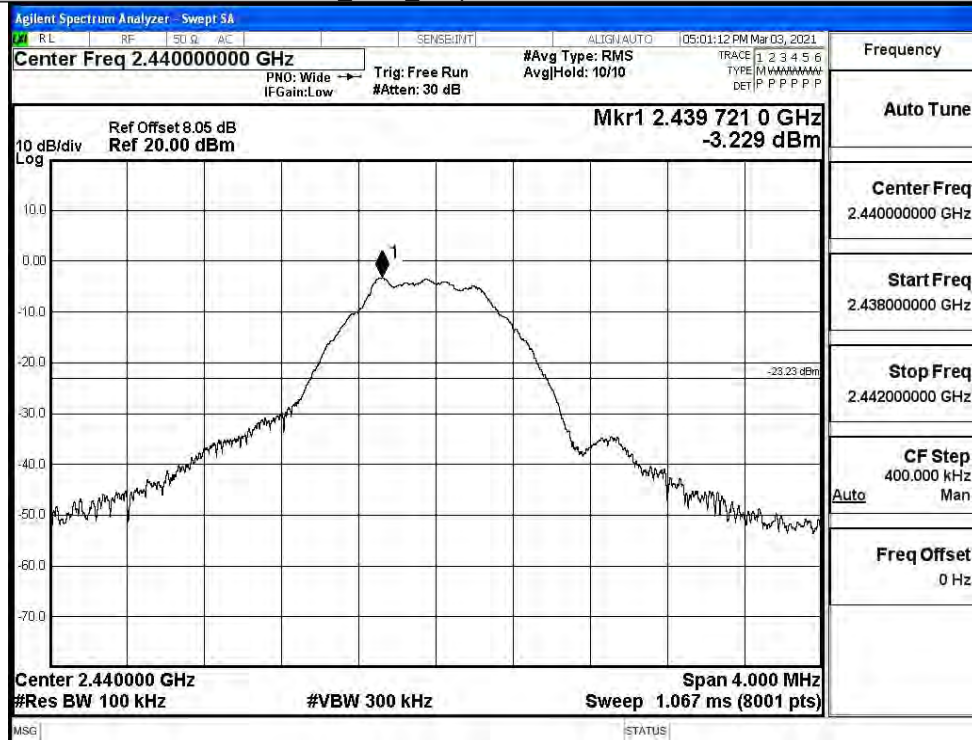


Puw/BT LE/LCH



BT LE MCH Graphs

Pref/BT LE/MCH

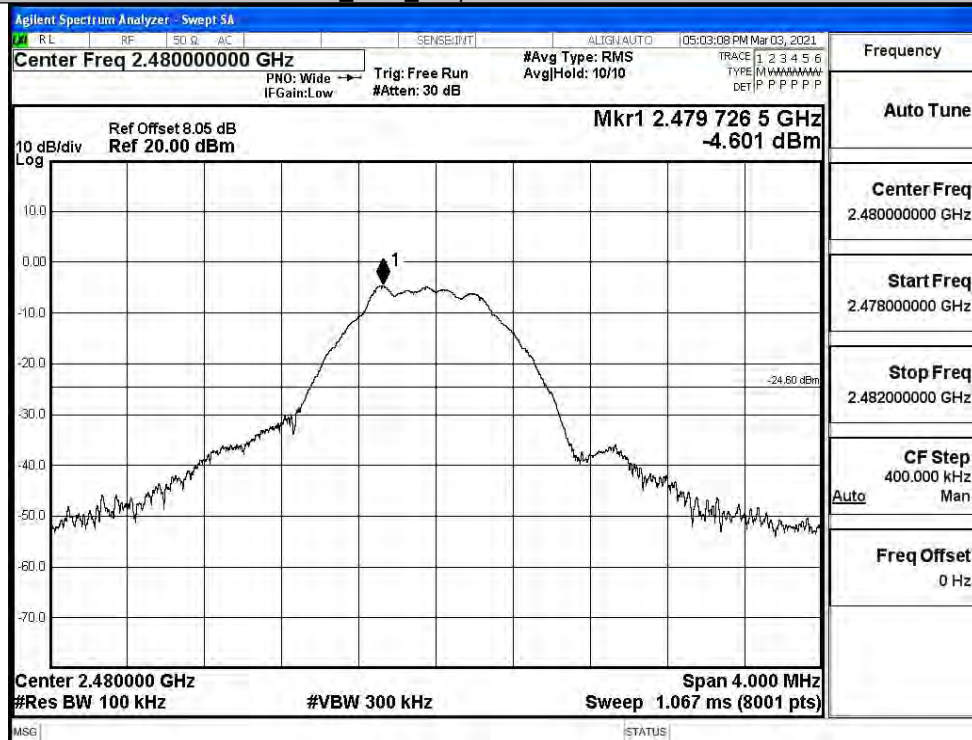


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

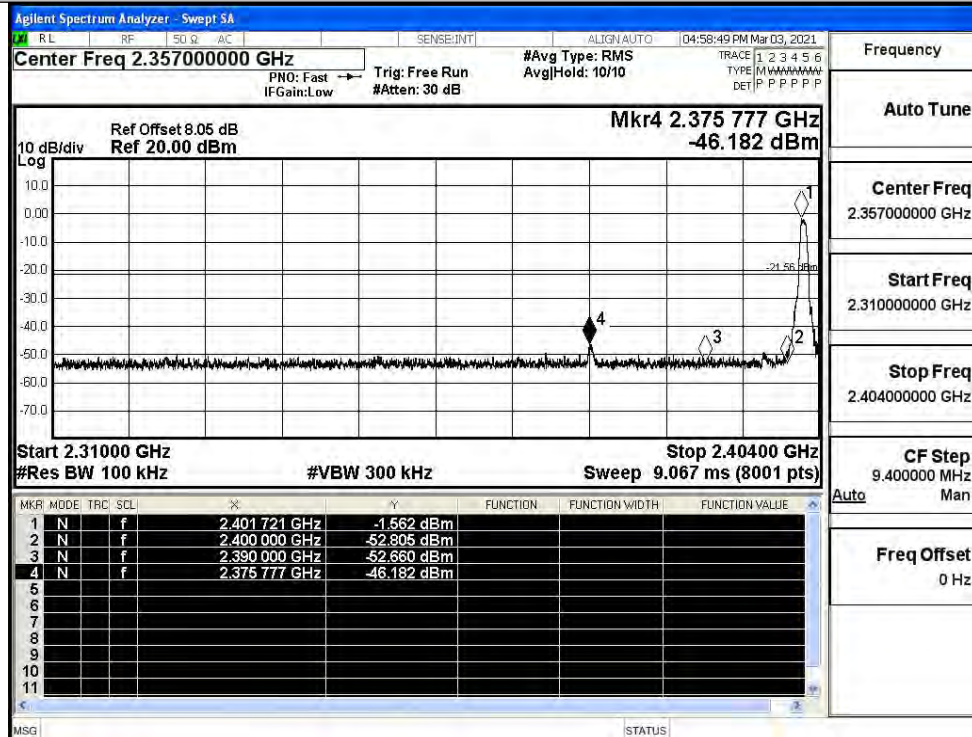


B.6 Band-edge for RF Conducted Emissions

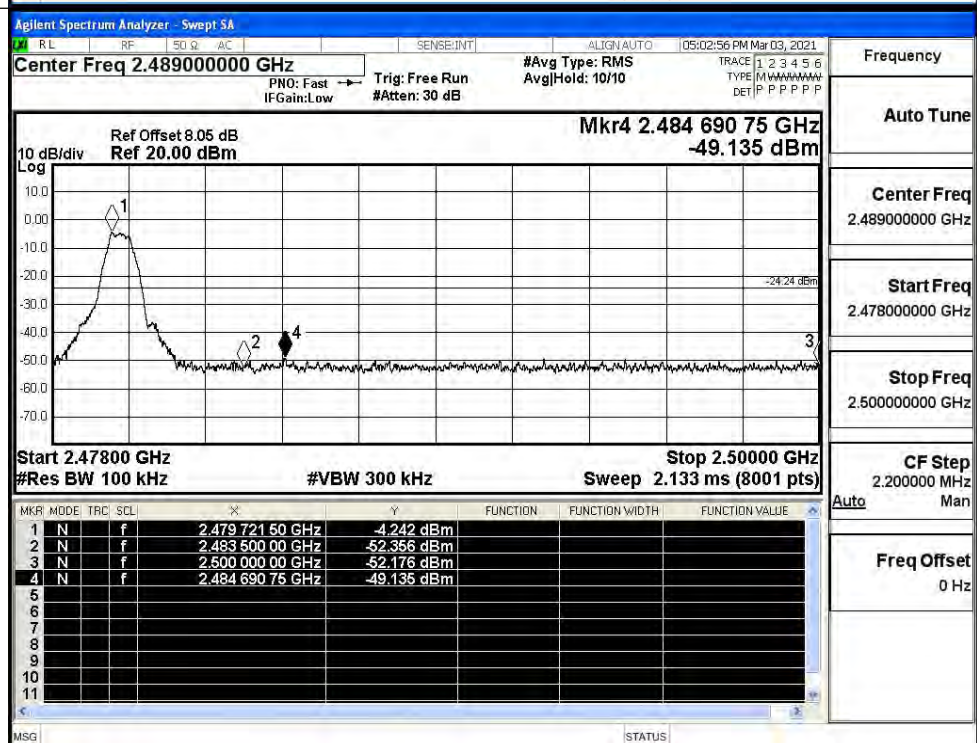
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.562	-46.182	-21.56	PASS
BT LE	HCH	-4.242	-49.135	-24.24	PASS

Test Graphs

LCH



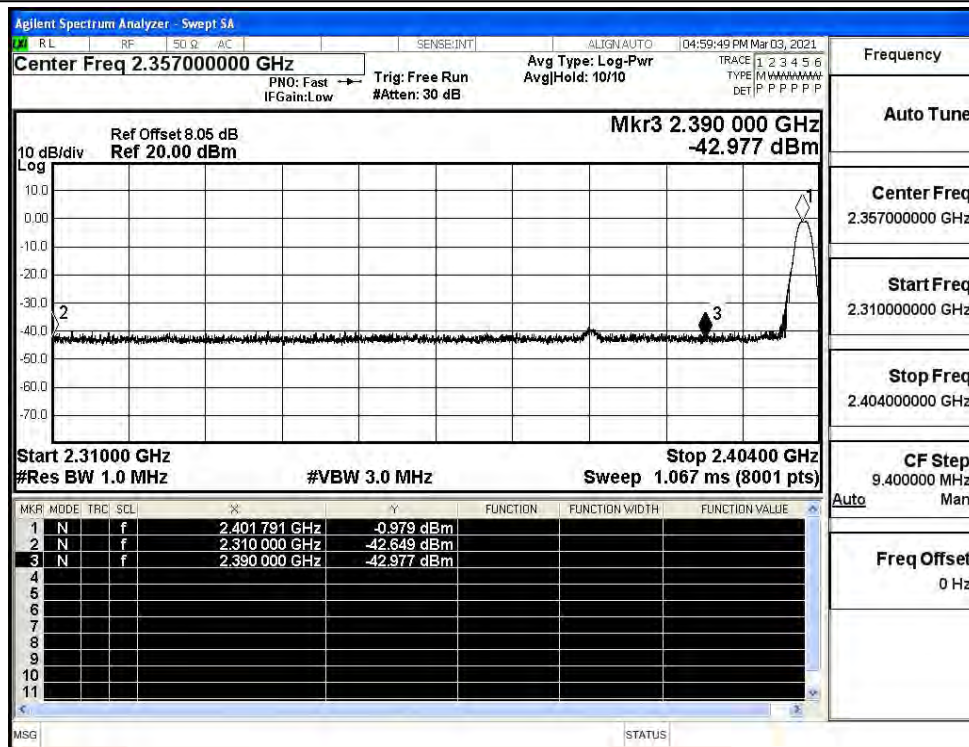
HCH



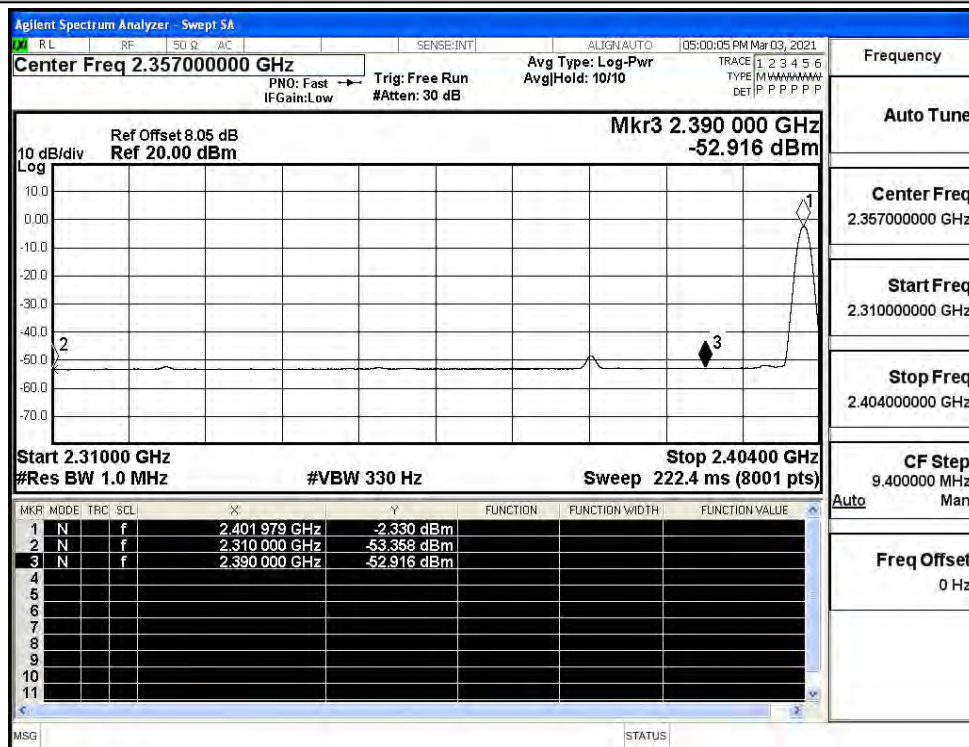
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-42.65	2.0	0	54.58	PEAK	74	PASS
		Ant1	2310.0	-53.36	2.0	0	43.87	AV	54	PASS
		Ant1	2390.0	-42.98	2.0	0	54.25	PEAK	74	PASS
		Ant1	2390.0	-52.92	2.0	0	44.31	AV	54	PASS
	2480	Ant1	2483.5	-42.80	2.0	0	54.43	PEAK	74	PASS
		Ant1	2483.5	-52.49	2.0	0	44.74	AV	54	PASS
		Ant1	2500.0	-42.48	2.0	0	54.75	PEAK	74	PASS
		Ant1	2500.0	-52.40	2.0	0	44.83	AV	54	PASS

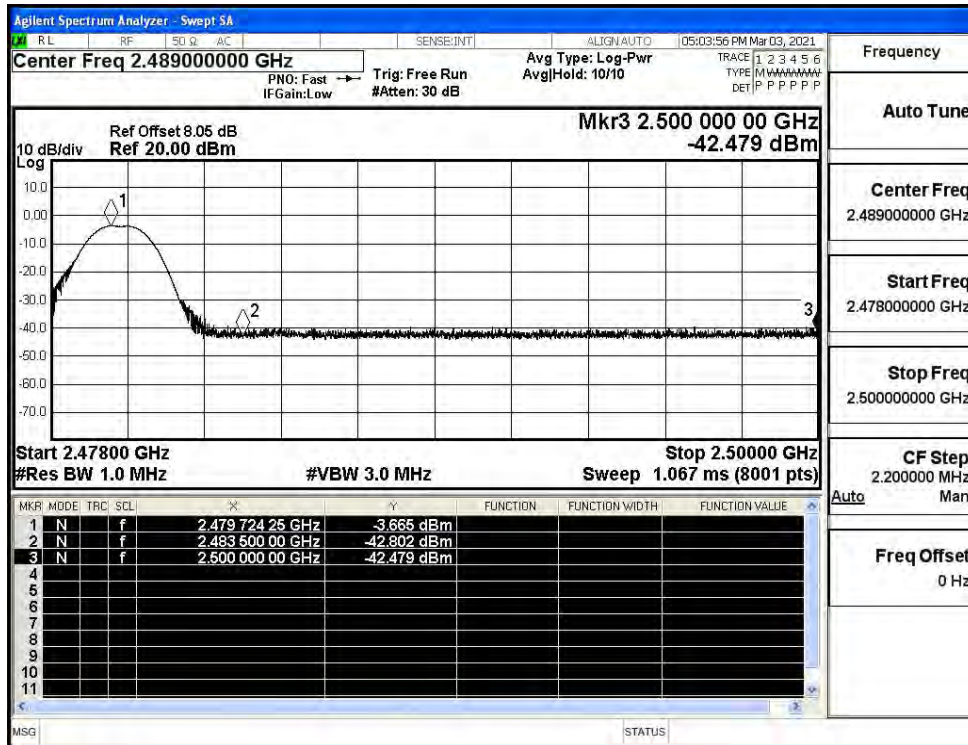
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

