

Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Smart Band

Trade Mark: N/A

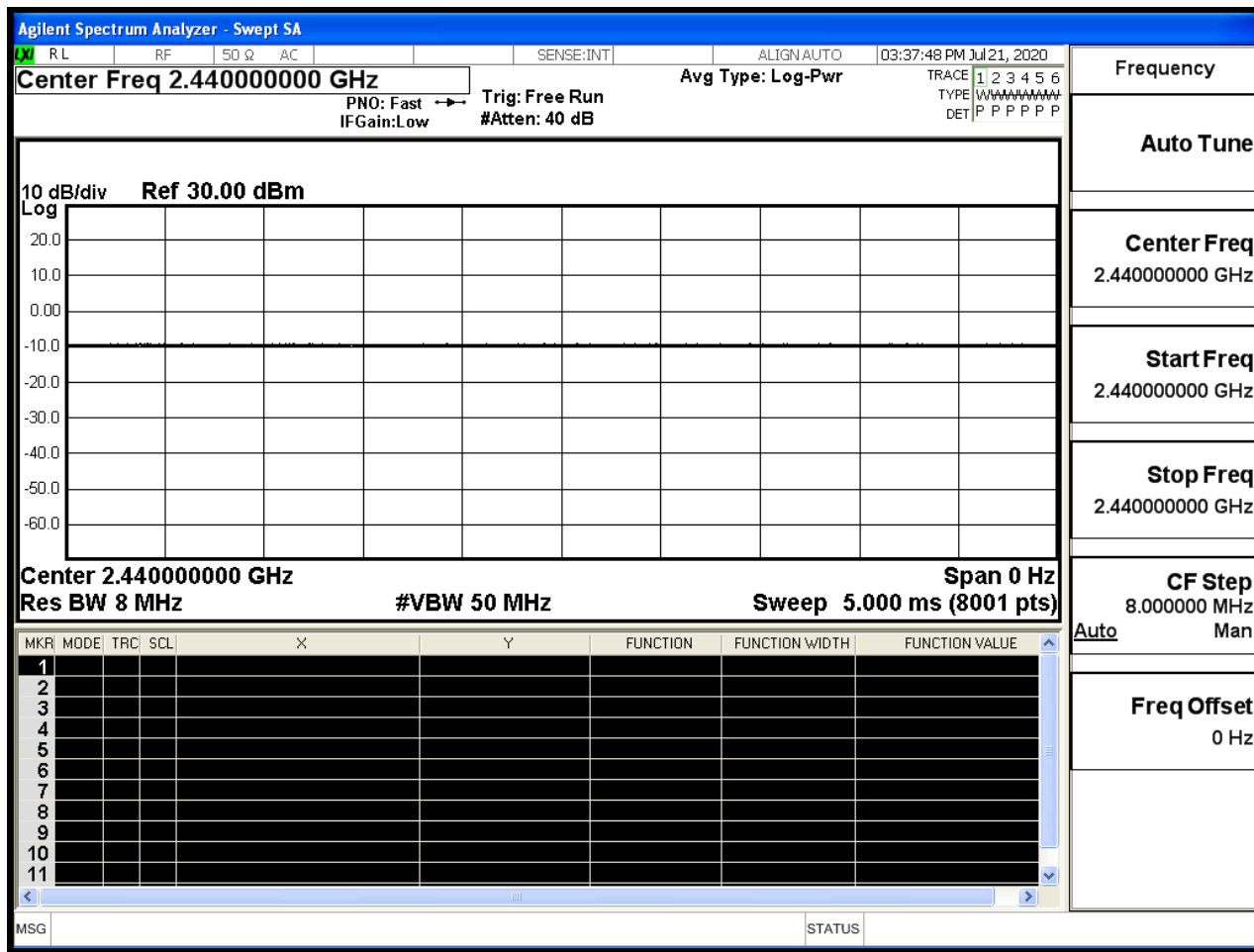
Test Model: BA1011V11

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

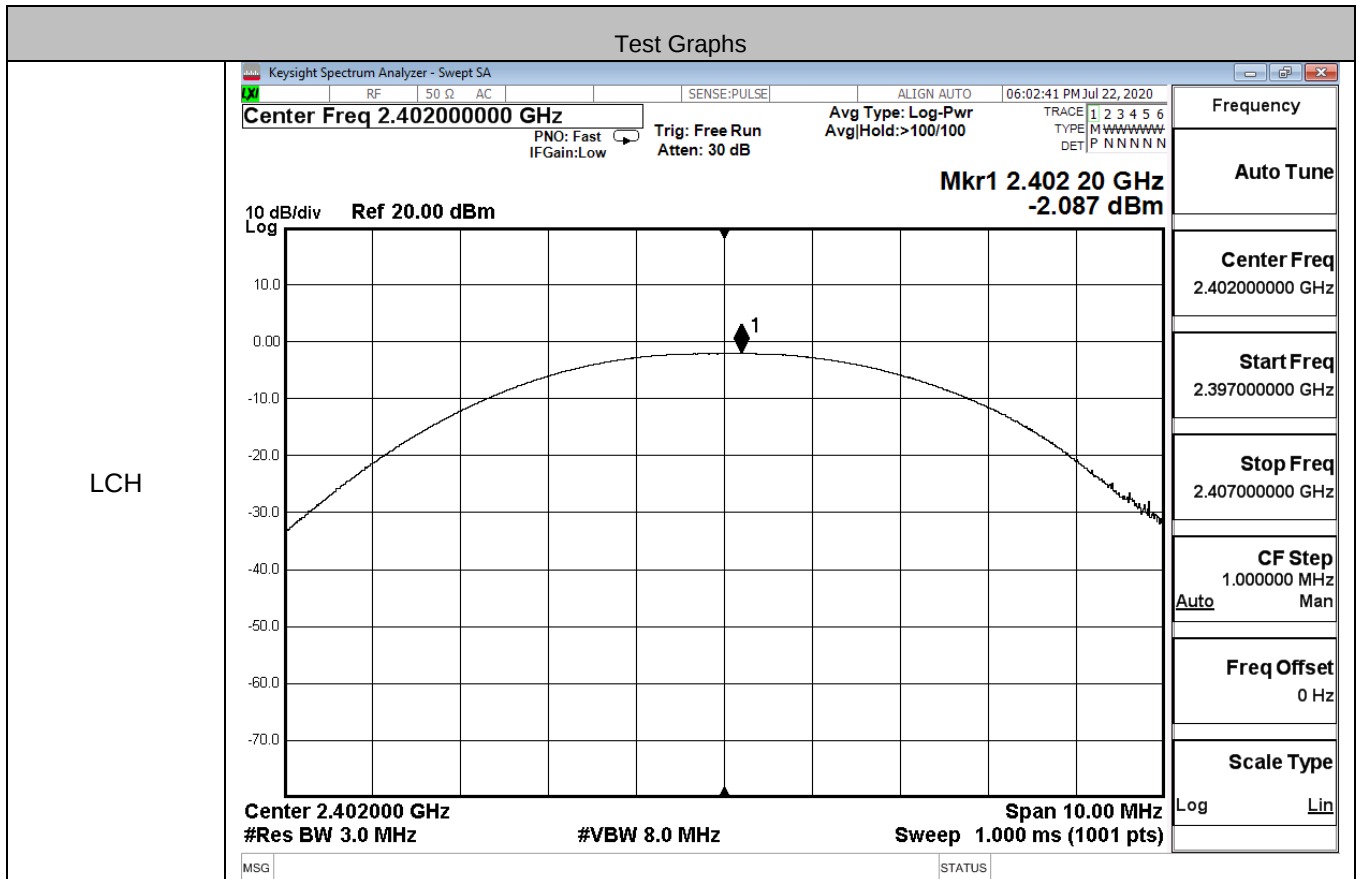
A.1 Duty Cycle

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

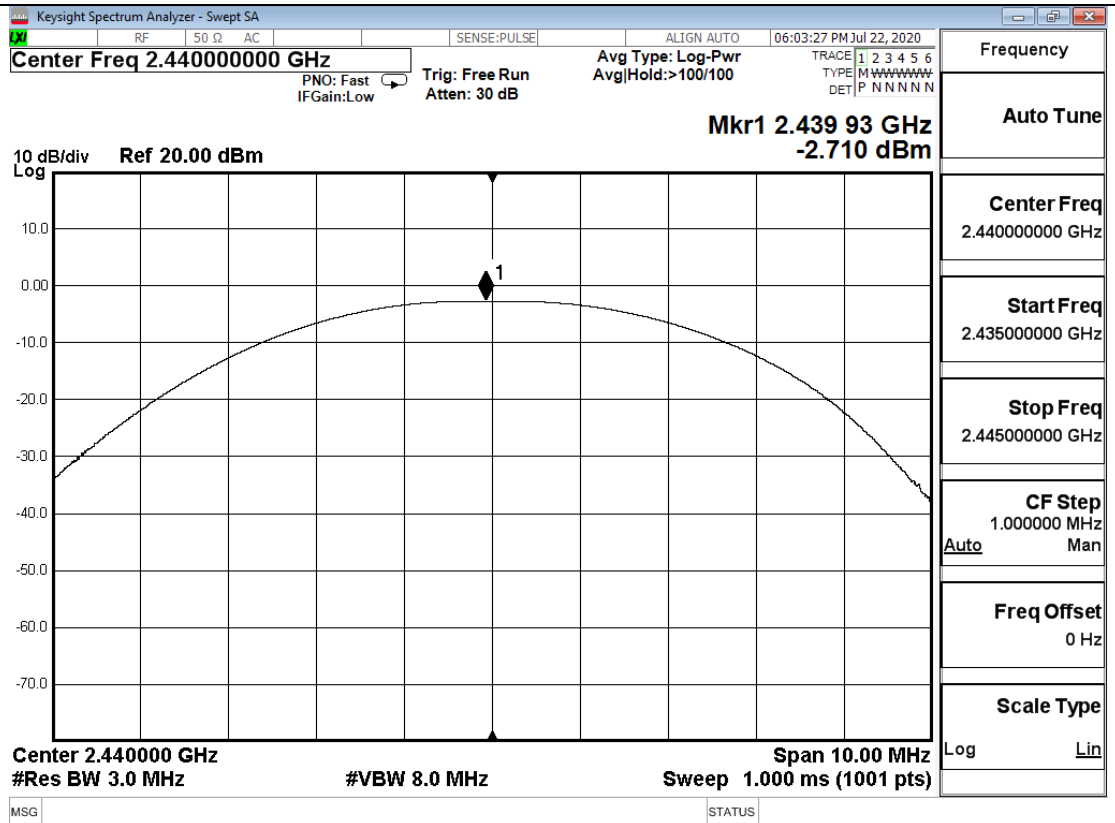


A.2 Maximum Conducted Peak Output Power

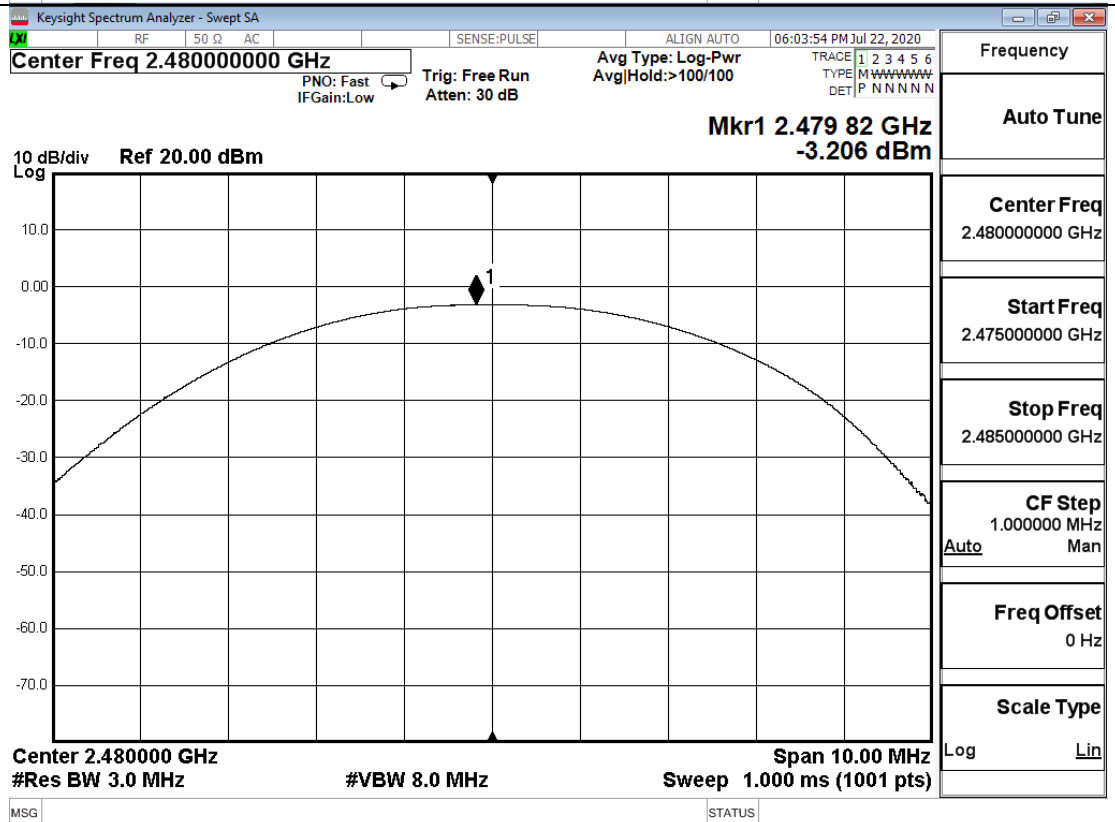
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.087	30	PASS
BT LE	MCH	-2.710	30	PASS
BT LE	HCH	-3.206	30	PASS



MCH



HCH

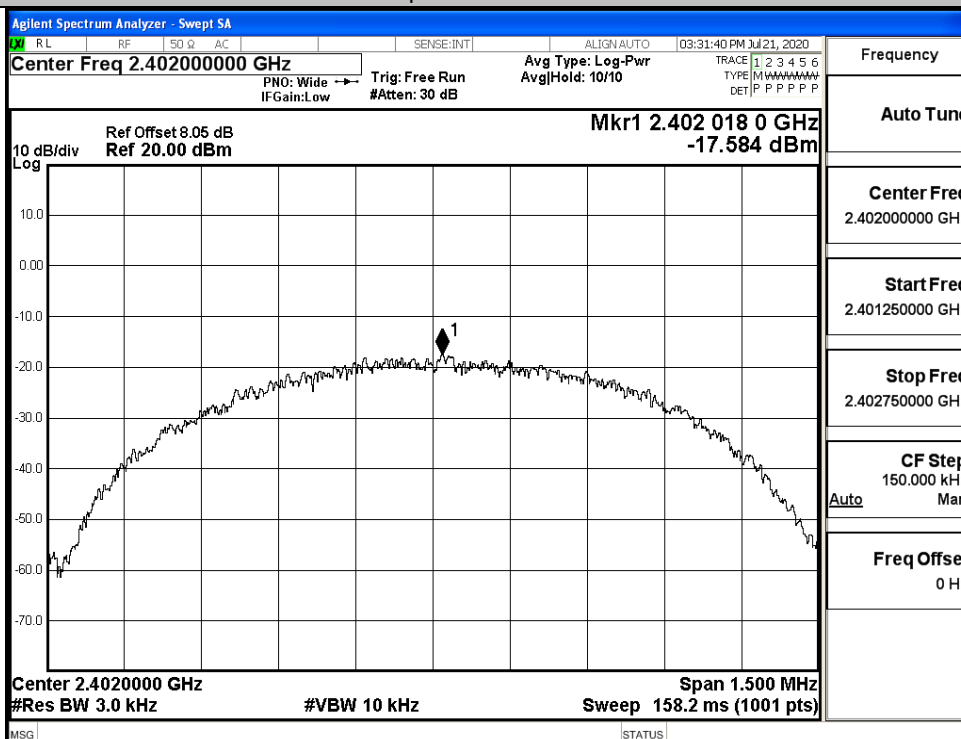


A.3 Maximum Power Spectral Density

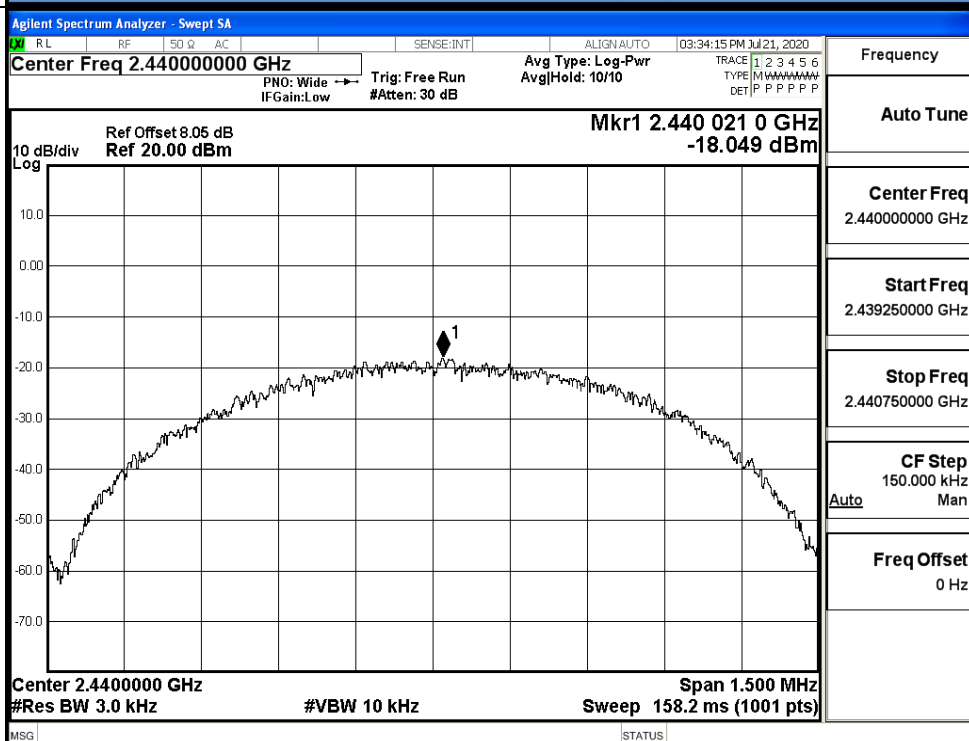
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.584	8	PASS
BT LE	MCH	-18.049	8	PASS
BT LE	HCH	-18.786	8	PASS

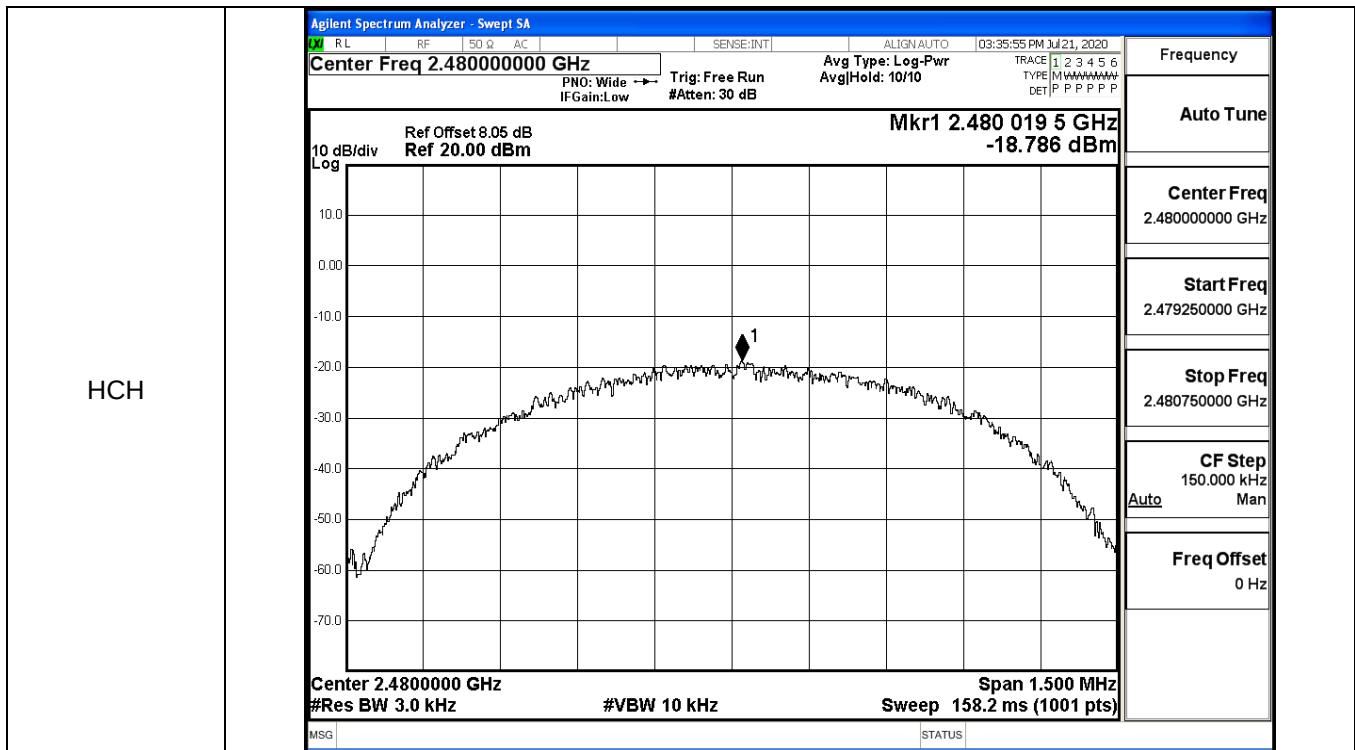
Test Graphs

LCH



MCH



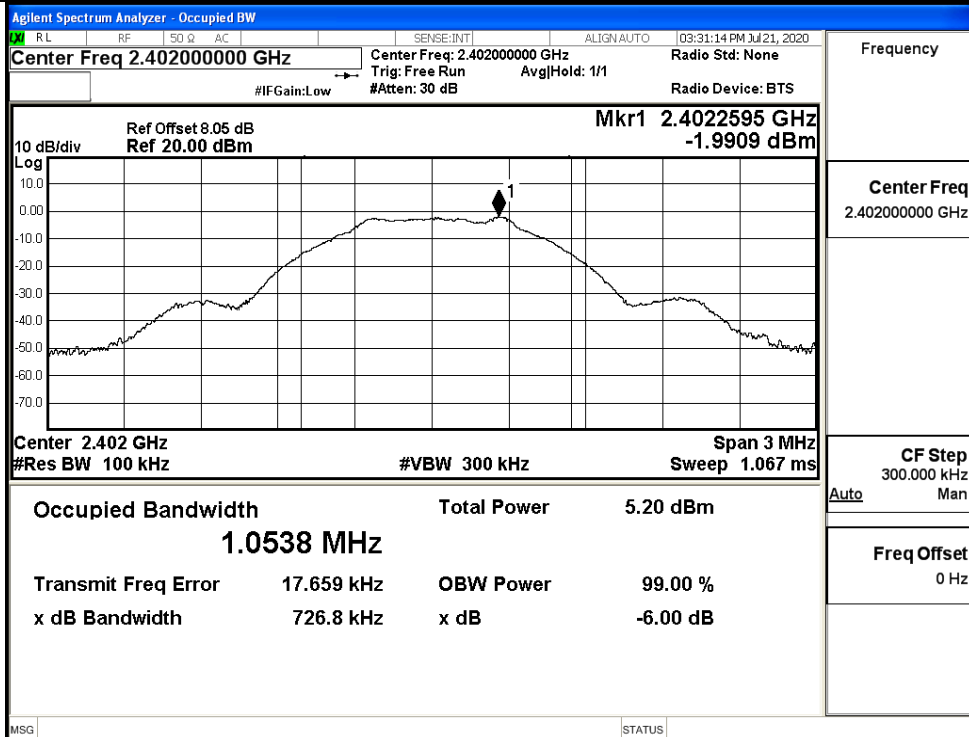


A.4 6dB Bandwidth

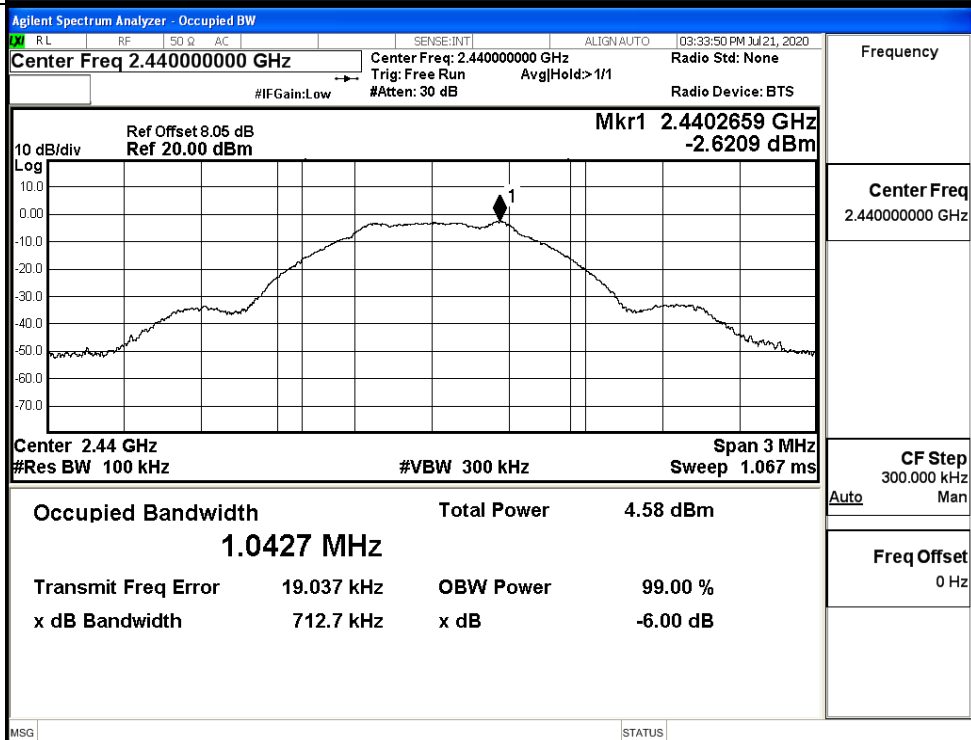
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7268	≥ 0.5	PASS
BT LE	MCH	0.7127	≥ 0.5	PASS
BT LE	HCH	0.7249	≥ 0.5	PASS

Test Graphs

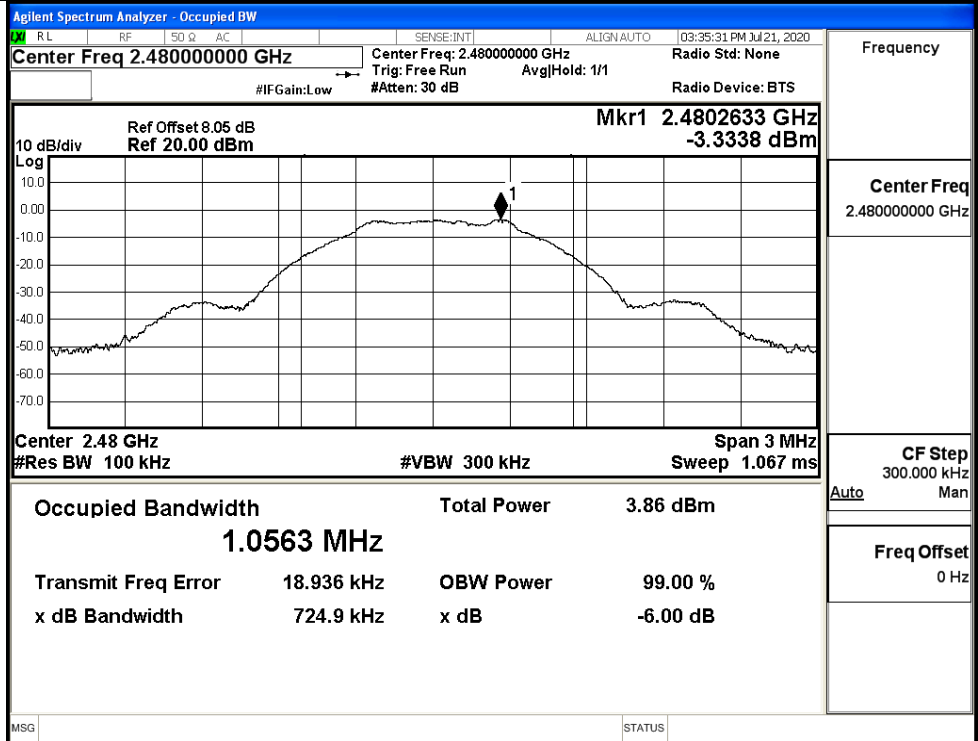
LCH



MCH



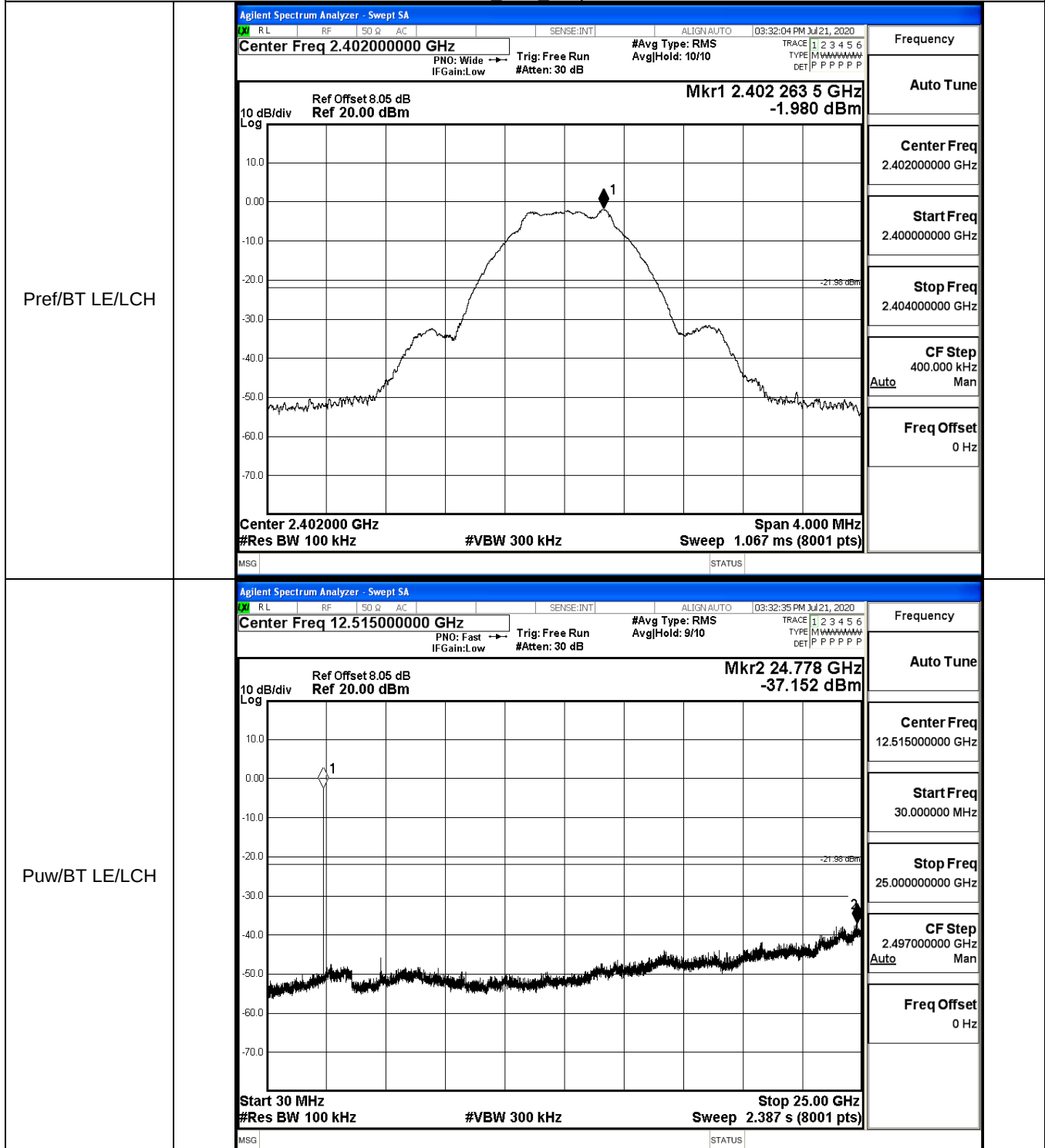
HCH



A.5 RF Conducted Spurious Emissions

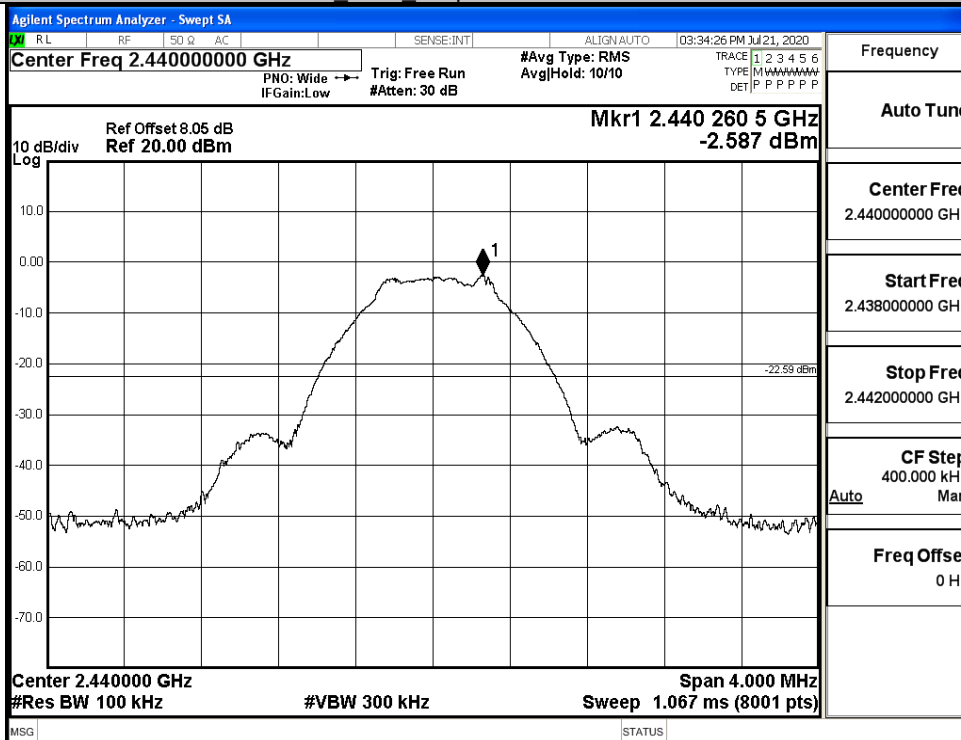
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.98	-37.152	-21.980	PASS
BT LE	MCH	-2.587	-36.094	-22.587	PASS
BT LE	HCH	-3.291	-36.868	-23.291	PASS

BT LE LCH Graphs

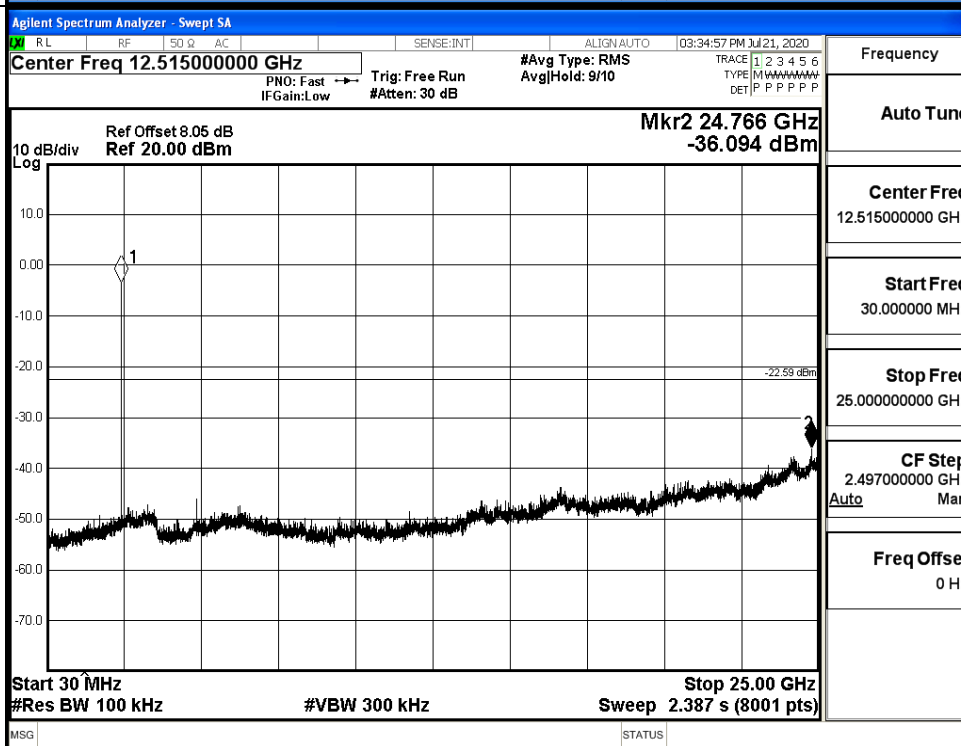


BT LE MCH Graphs

Pref/BT LE/MCH

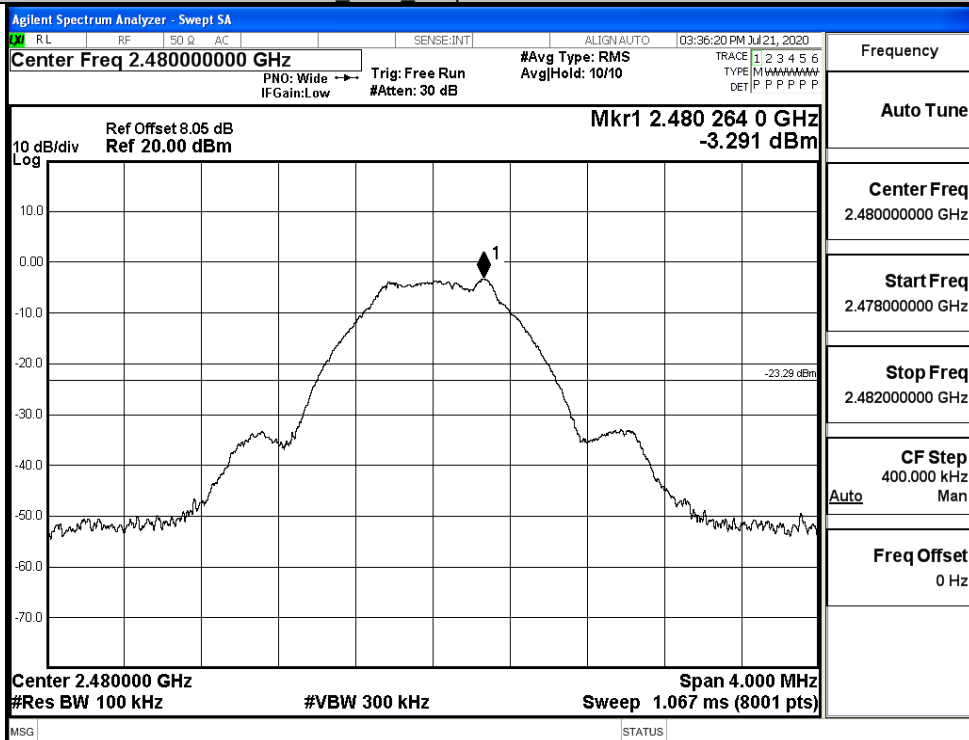


Puw/BT LE/MCH

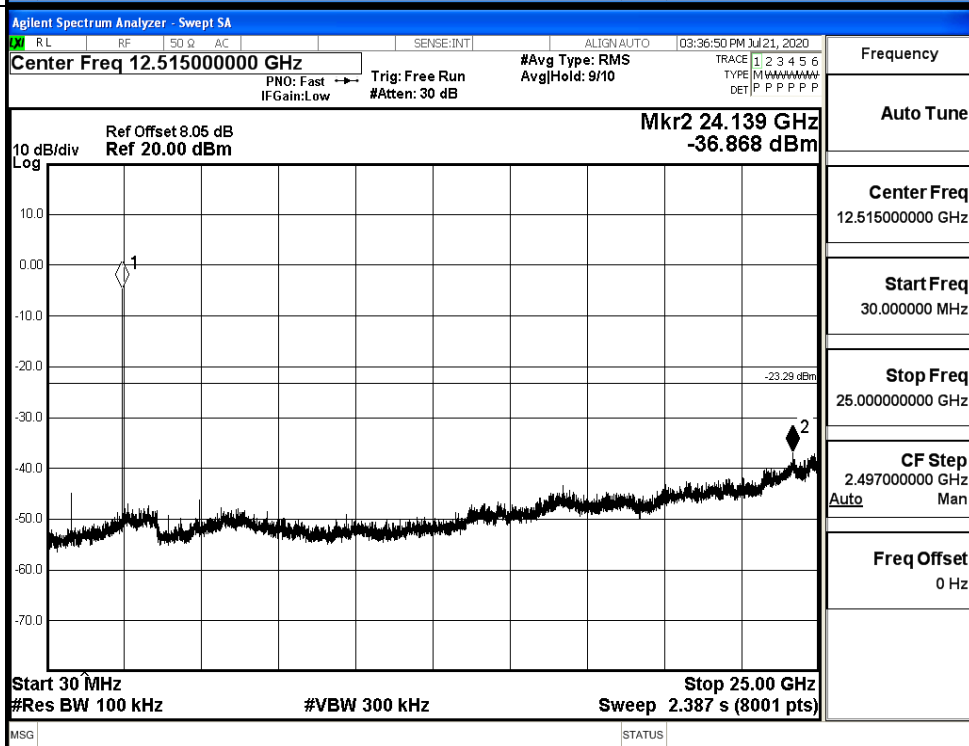


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

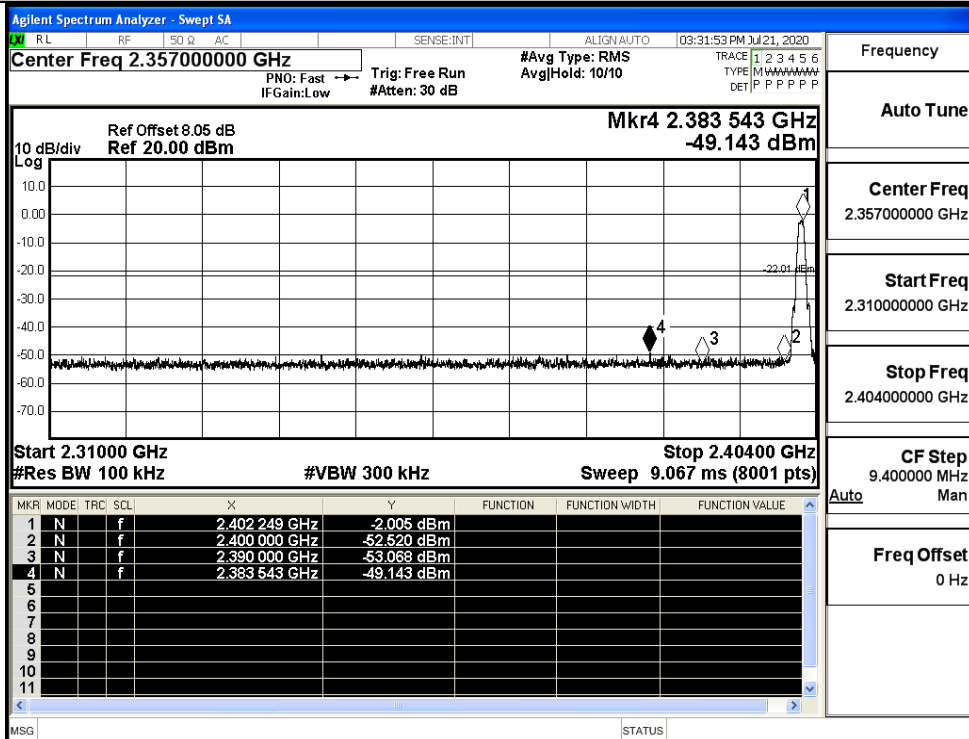


A.6 Band-edge for RF Conducted Emissions

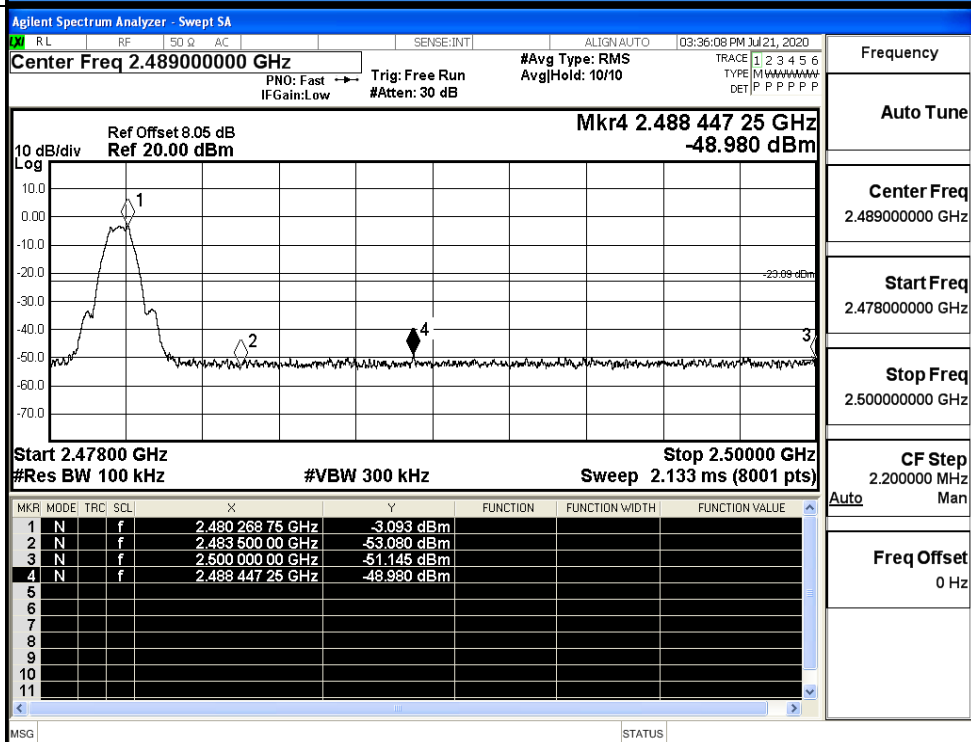
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.005	-49.143	-22.01	PASS
BT LE	HCH	-3.093	-48.980	-23.09	PASS

Test Graphs

LCH



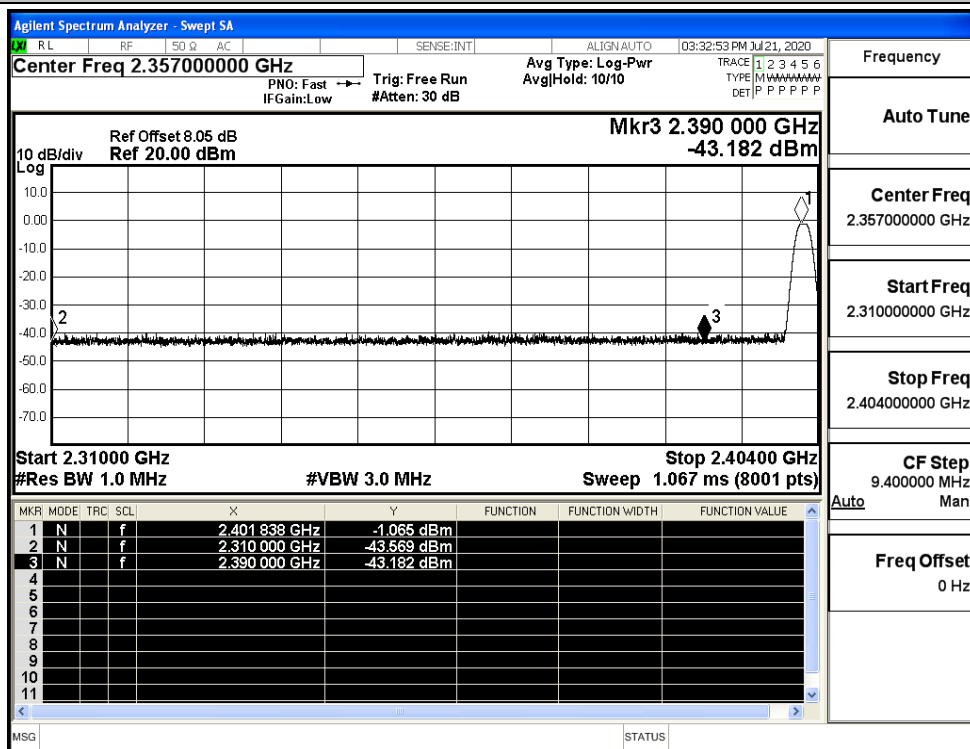
HCH



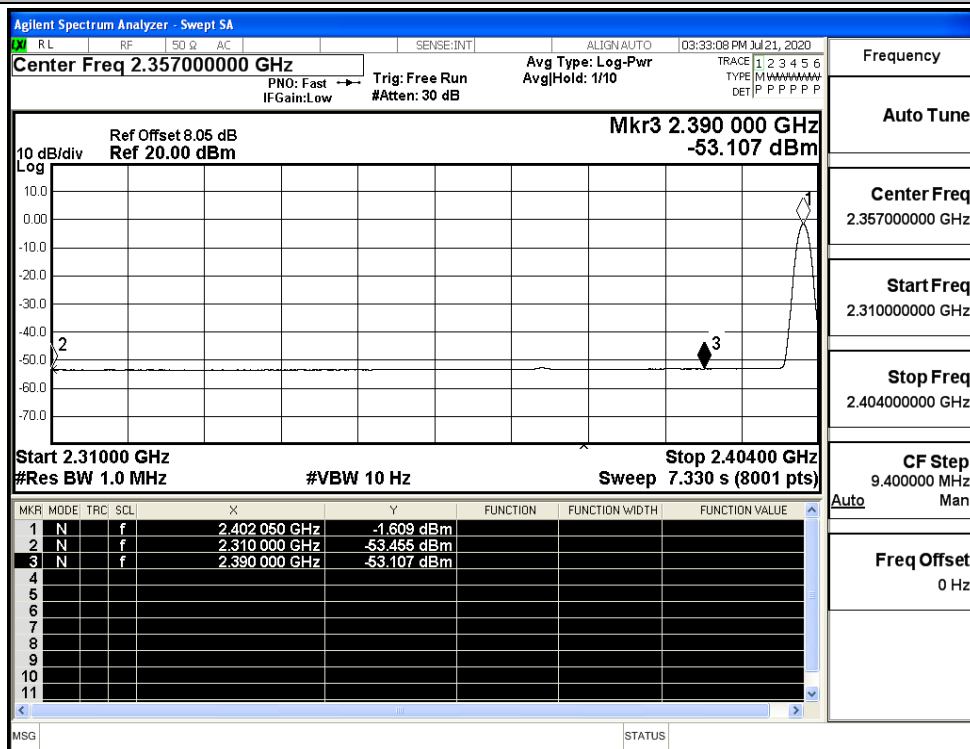
A.7 Restrict-band band-edge measurements

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	-43.57	2.0	0	51.69	PEAK	74	PASS
		Ant1	2310.0	-53.46	2.0	0	41.80	AV	54	PASS
		Ant1	2390.0	-43.18	2.0	0	52.08	PEAK	74	PASS
		Ant1	2390.0	-53.11	2.0	0	42.15	AV	54	PASS
	2480	Ant1	2483.5	-41.50	2.0	0	53.75	PEAK	74	PASS
		Ant1	2483.5	-52.58	2.0	0	42.68	AV	54	PASS
		Ant1	2500.0	-42.38	2.0	0	52.88	PEAK	74	PASS
		Ant1	2500.0	-52.49	2.0	0	42.77	AV	54	PASS

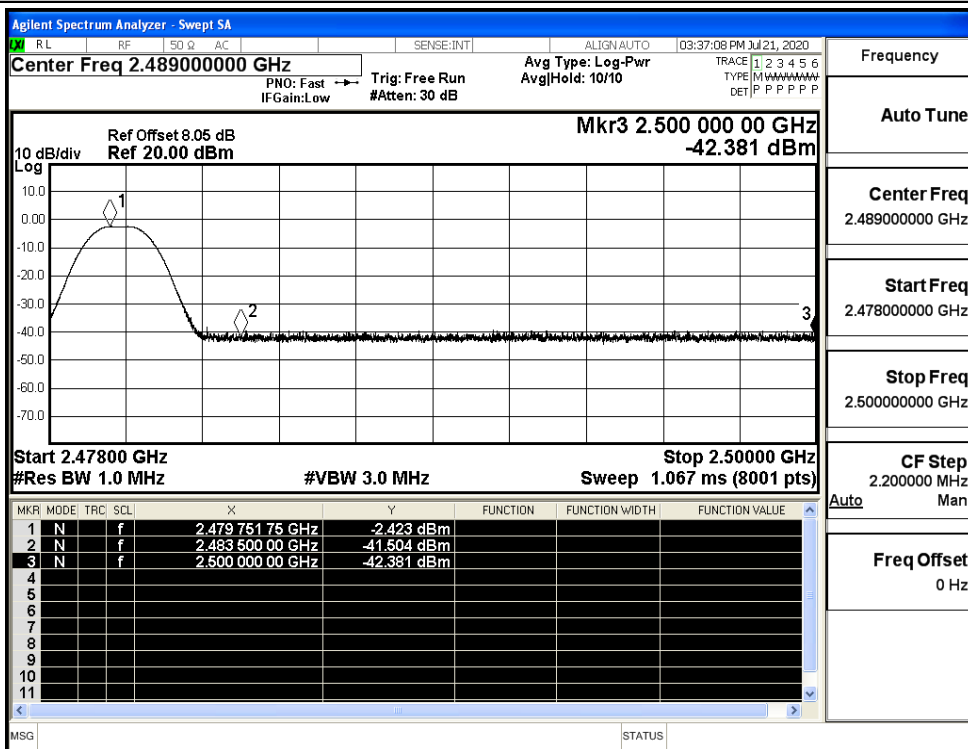
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

