

Appendix A

RF Test Data for BT V4.0 (Conducted Measurement)

Product Name: Smart Cabinet Lock

Trade Mark: HIZIMA 

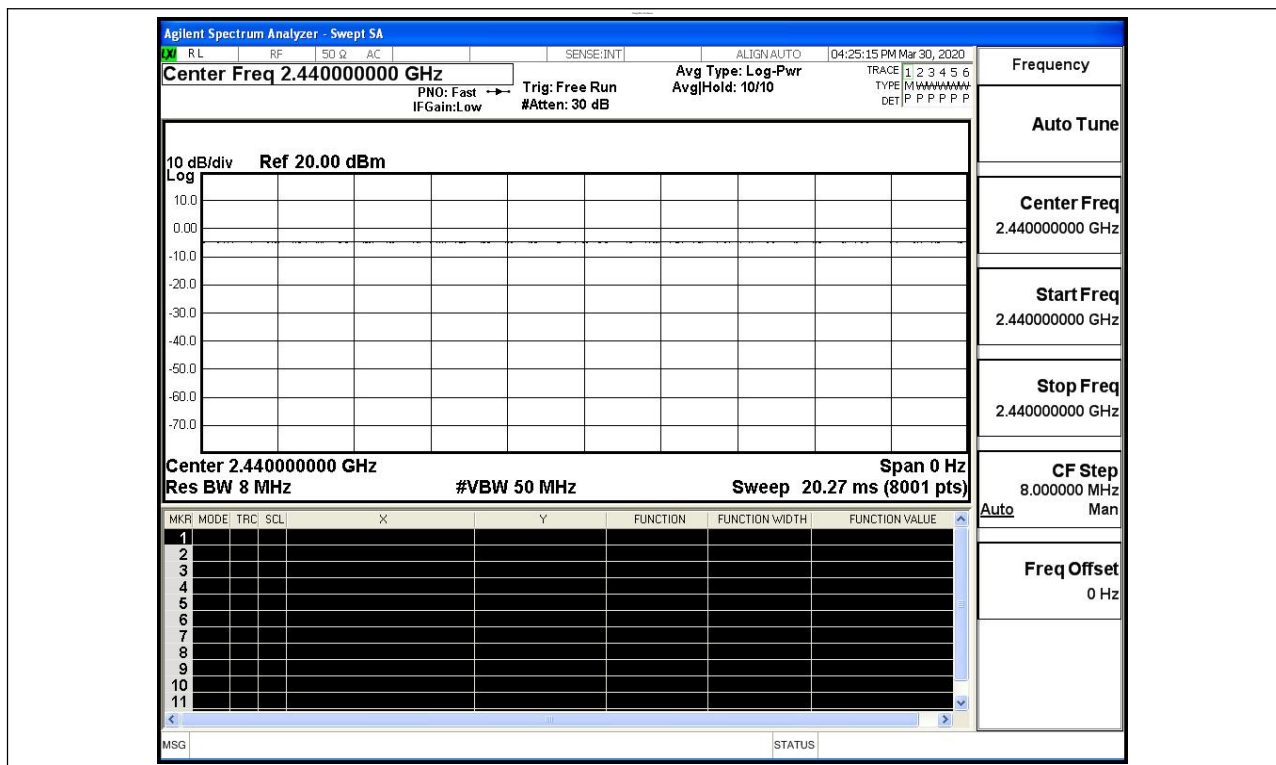
Test Model: ZMB-2BK

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Tom.Liu

A.1 Duty Cycle

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

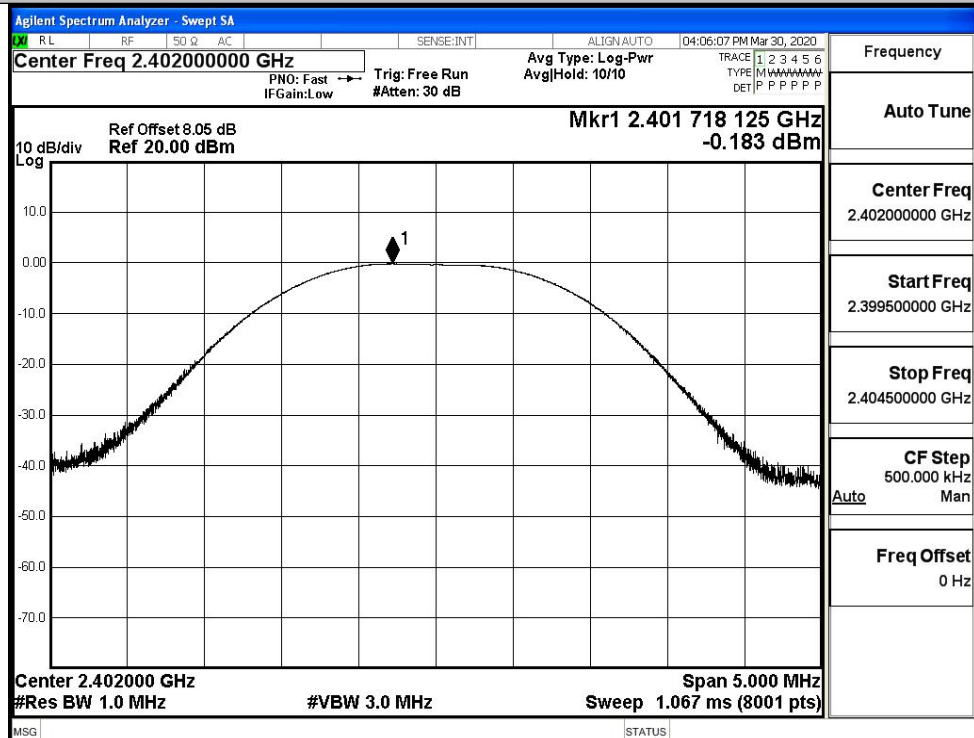


A.2 Maximum Conducted Peak Output Power

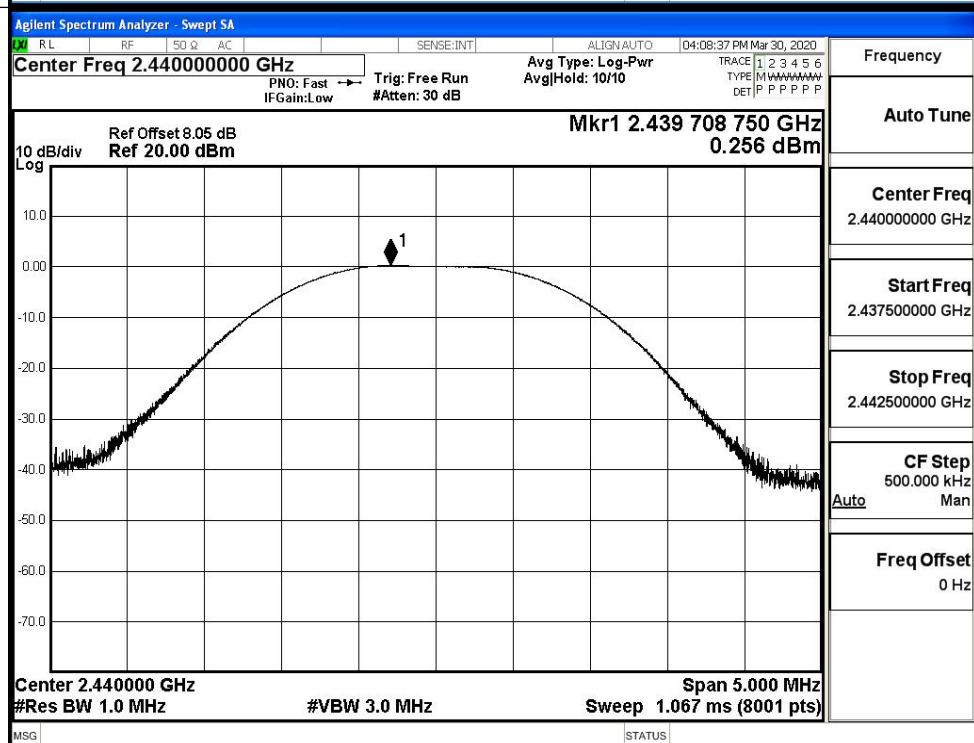
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.183	30	PASS
BT LE	MCH	0.256	30	PASS
BT LE	HCH	0.403	30	PASS

Test Graphs

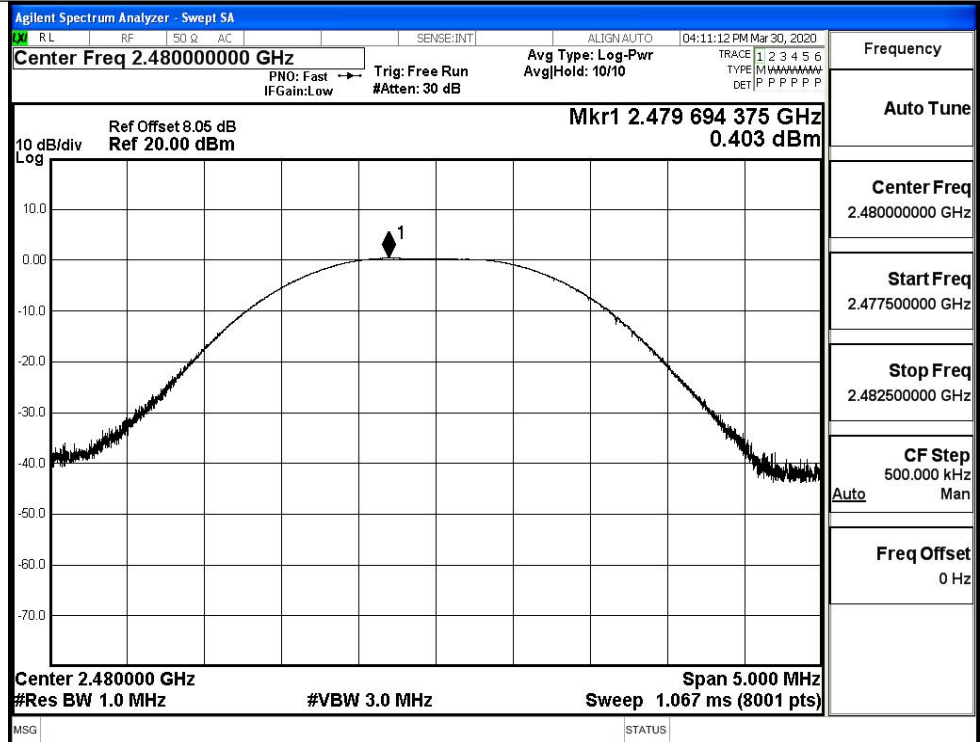
LCH



MCH



HCH

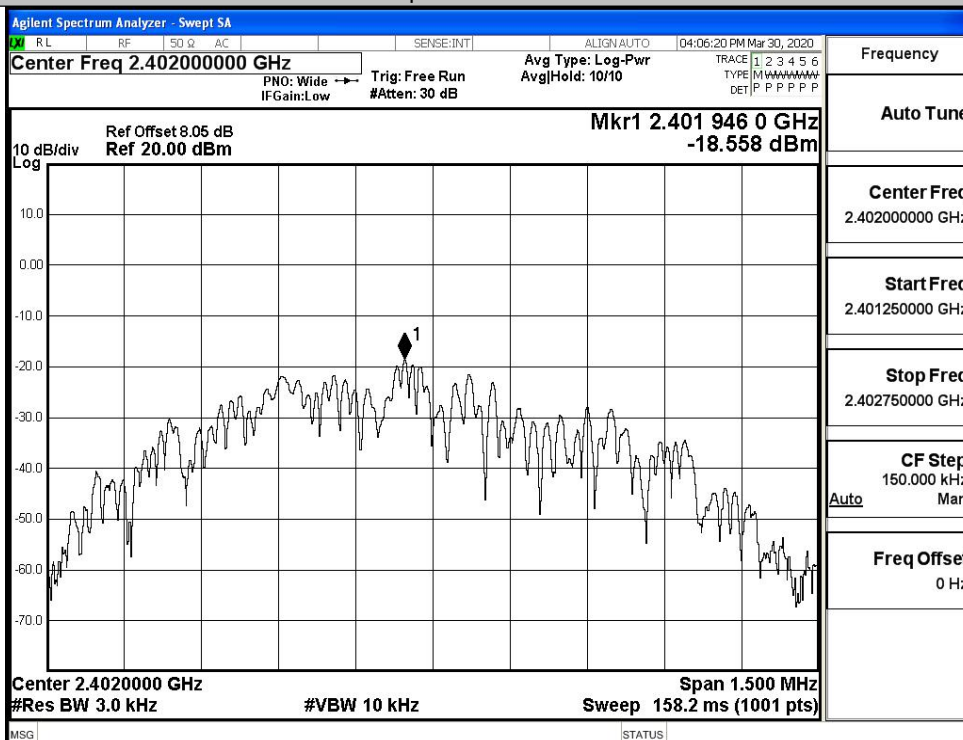


A.3 Maximum Power Spectral Density

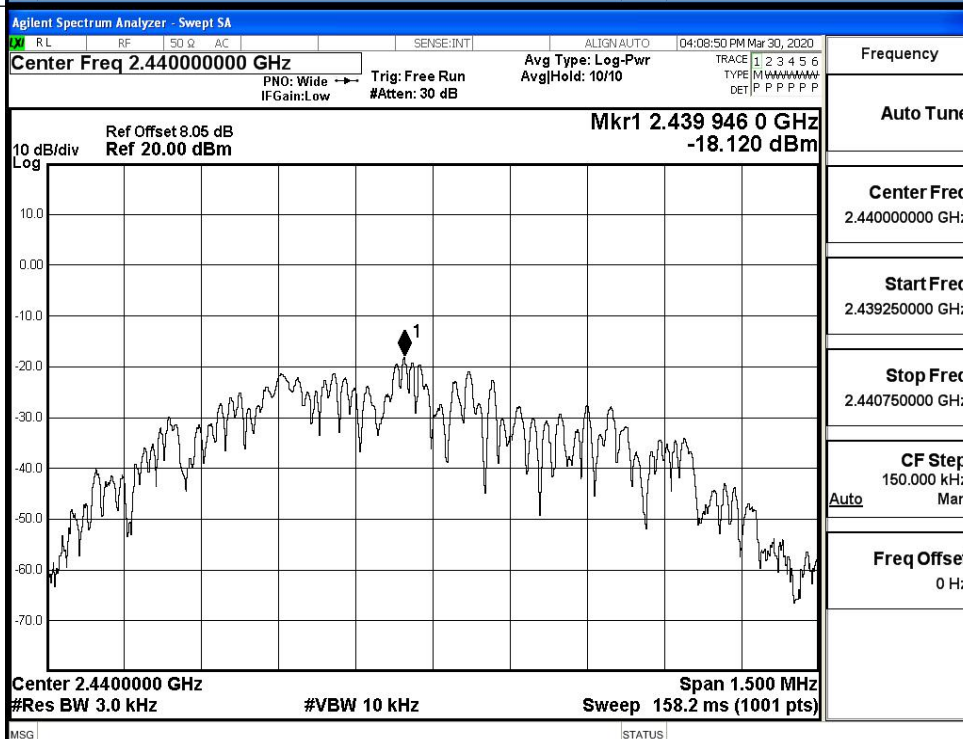
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.558	8	PASS
BT LE	MCH	-18.120	8	PASS
BT LE	HCH	-17.973	8	PASS

Test Graphs

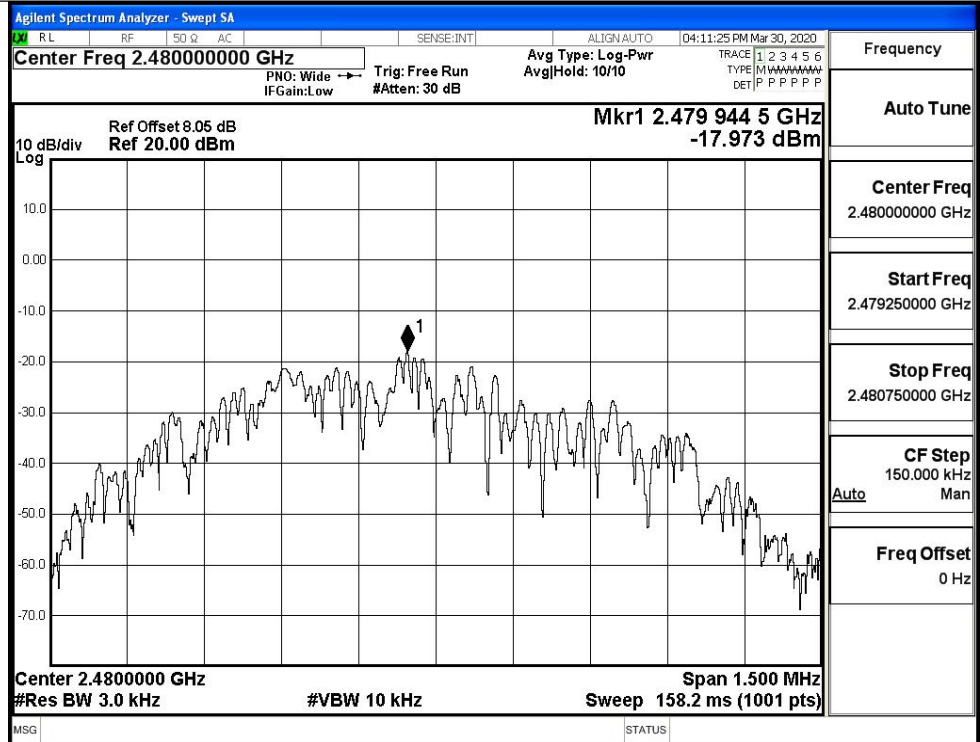
LCH



MCH



HCH

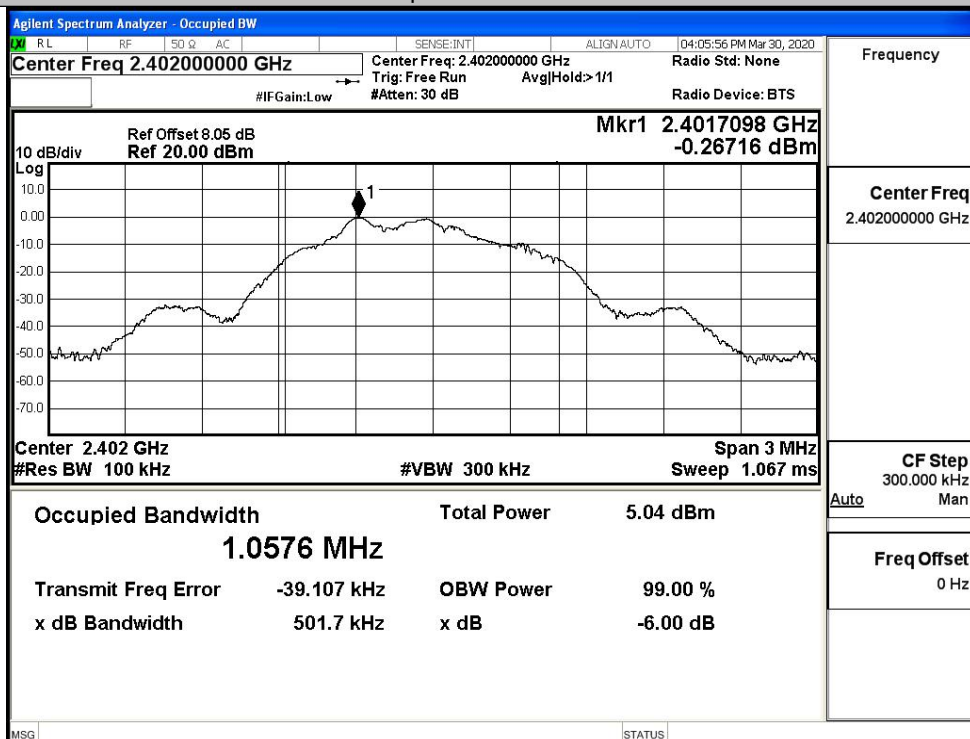


A.4 6dB Bandwidth

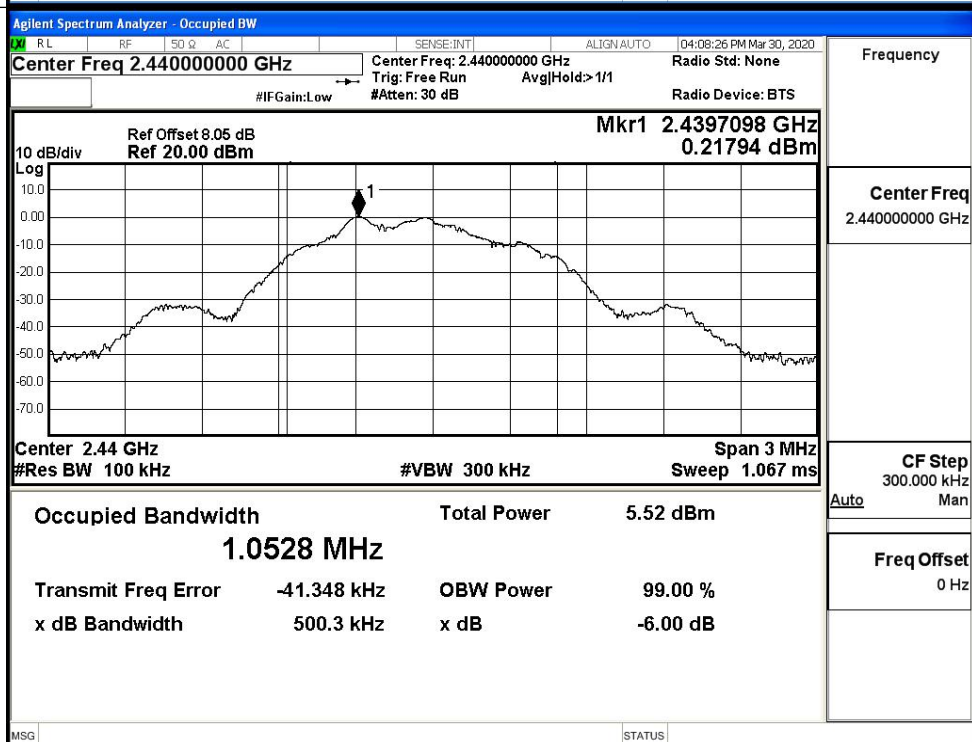
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5017	≥ 0.5	PASS
BT LE	MCH	0.5003	≥ 0.5	PASS
BT LE	HCH	0.5002	≥ 0.5	PASS

Test Graphs

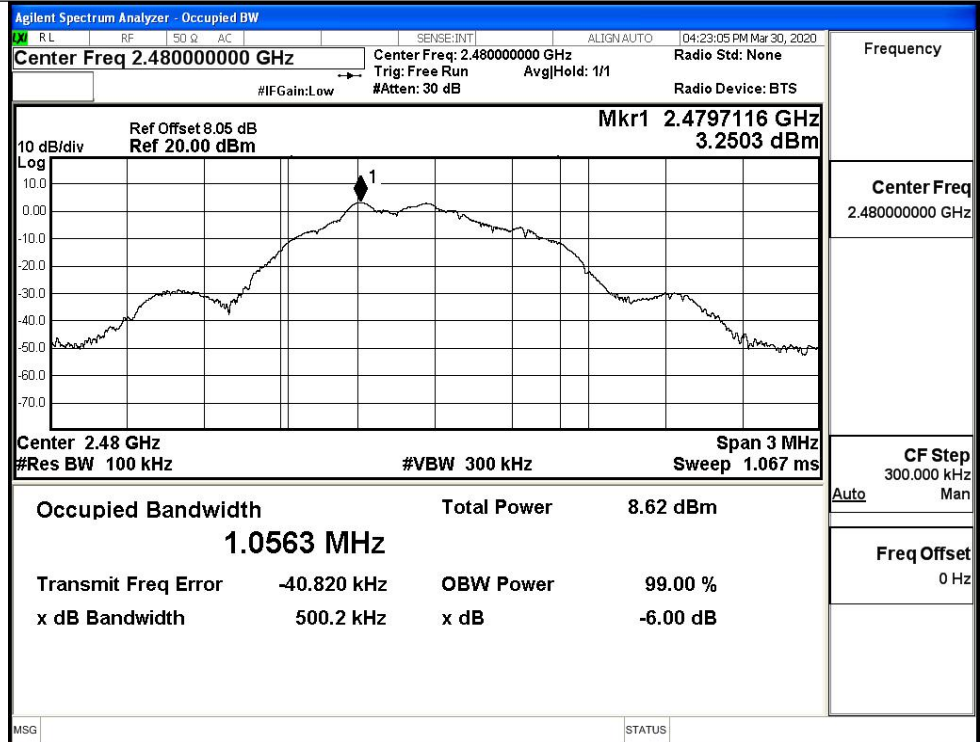
LCH



MCH



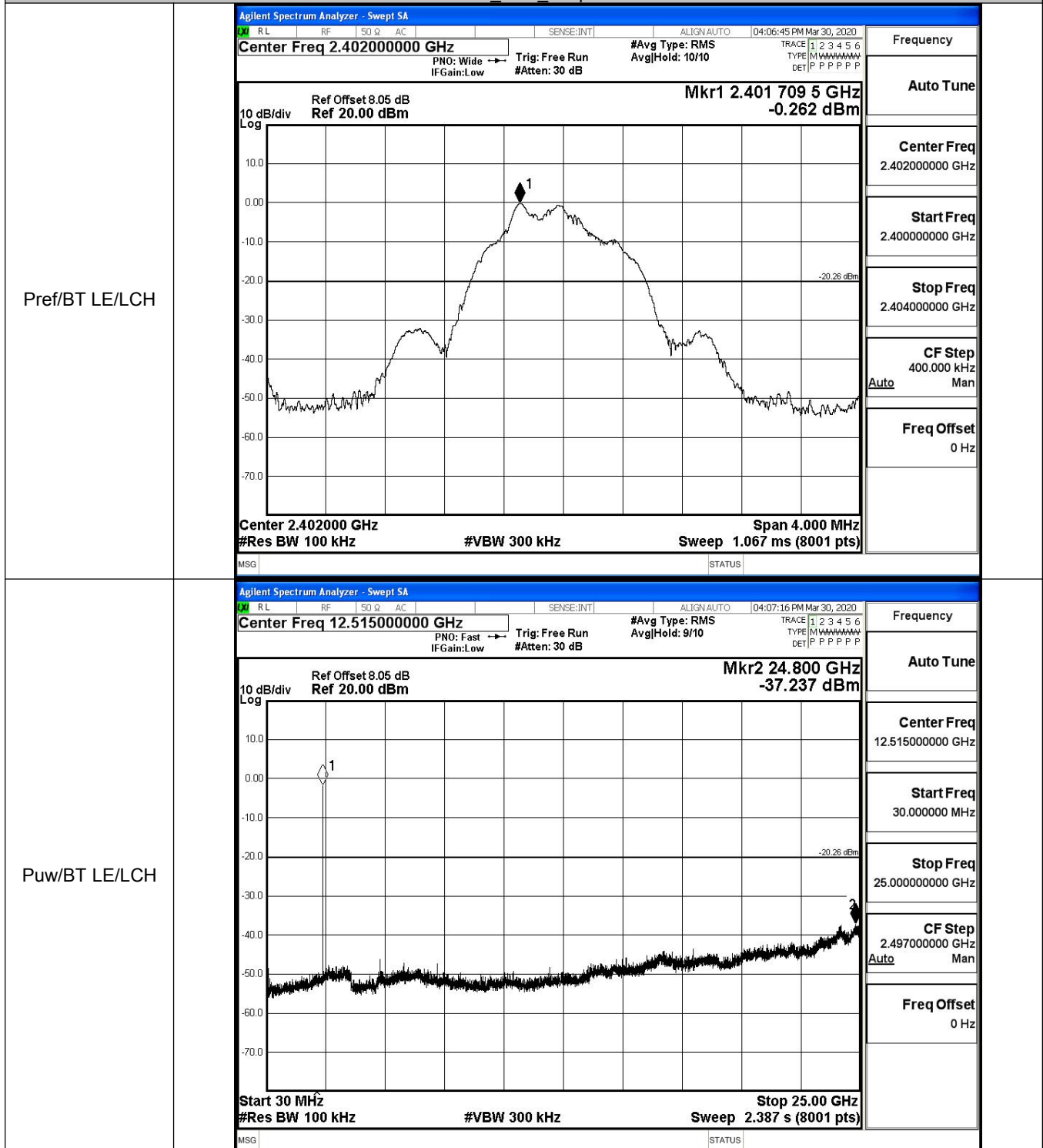
HCH



A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.262	-37.237	-20.262	PASS
BT LE	MCH	0.169	-37.205	-19.831	PASS
BT LE	HCH	3.26	-37.074	-16.740	PASS

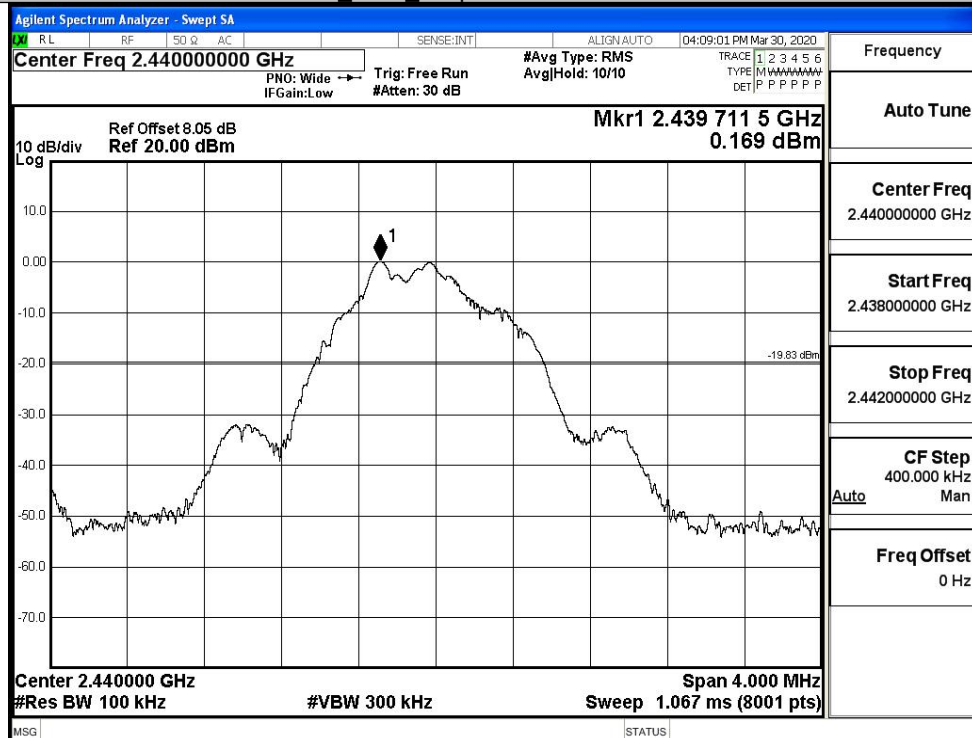
BT LE_LCH_Graphs



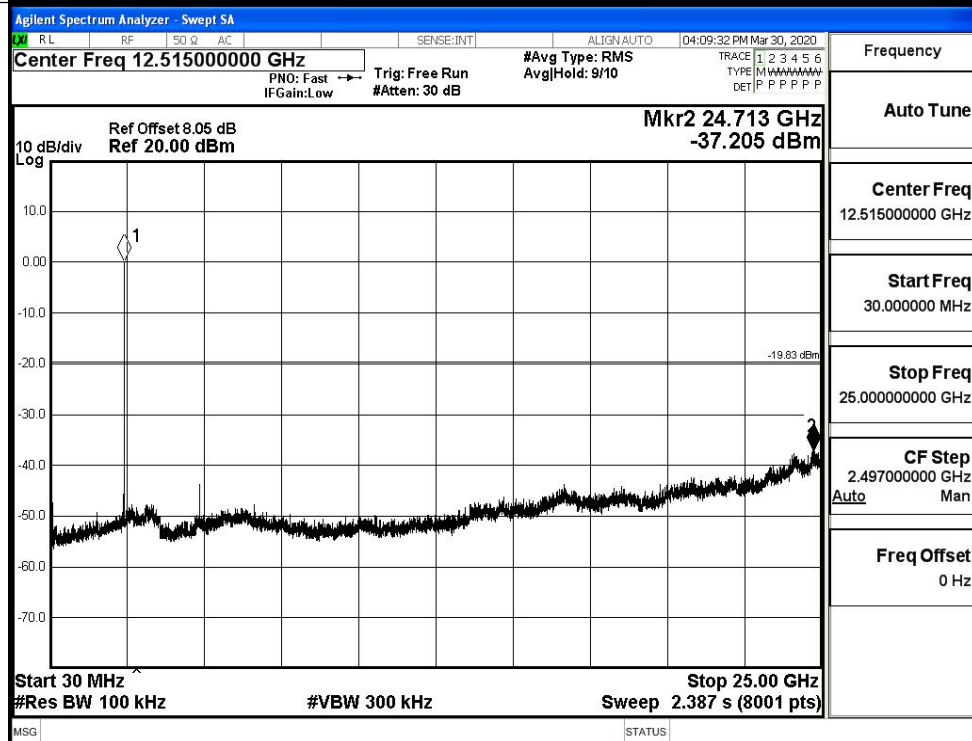
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BT LE MCH Graphs

Pref/BT LE/MCH

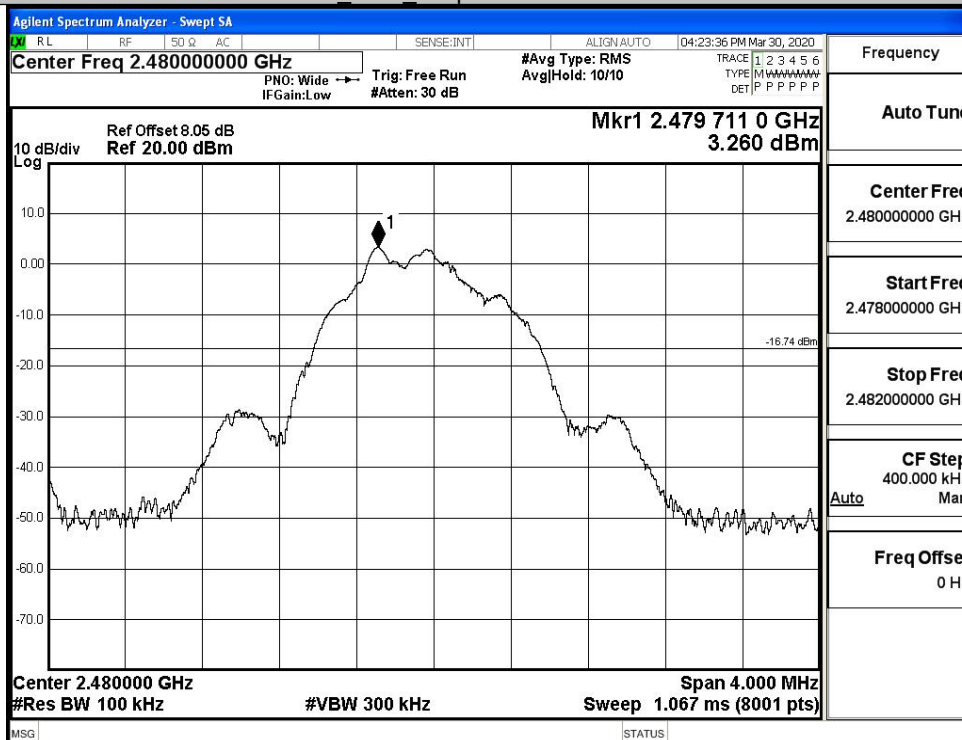


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

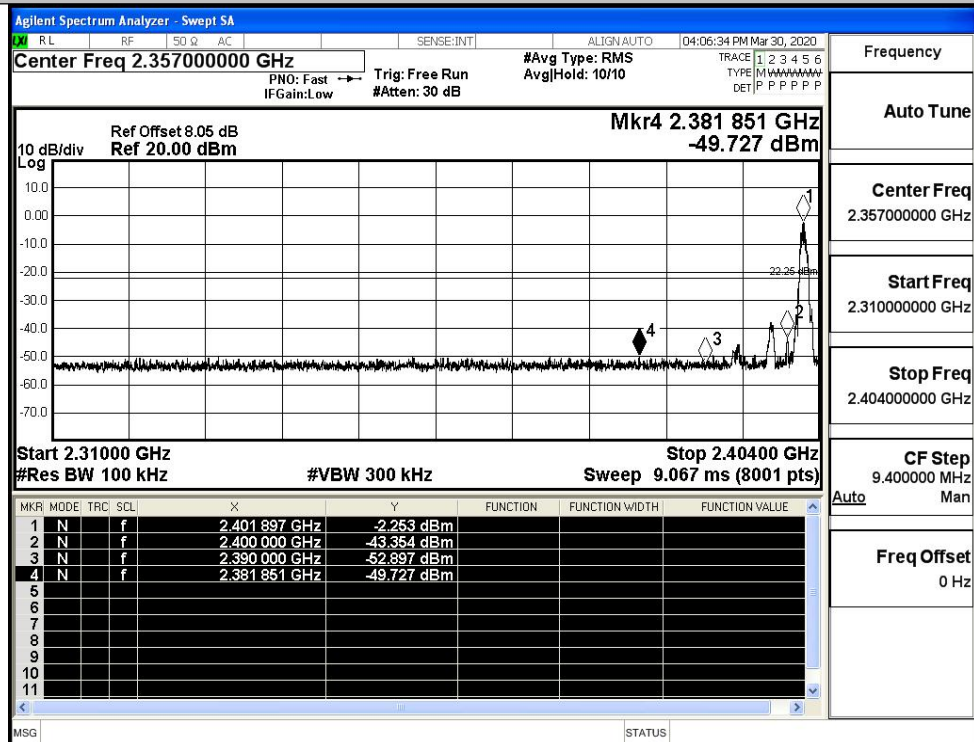


A.6 Band-edge for RF Conducted Emissions

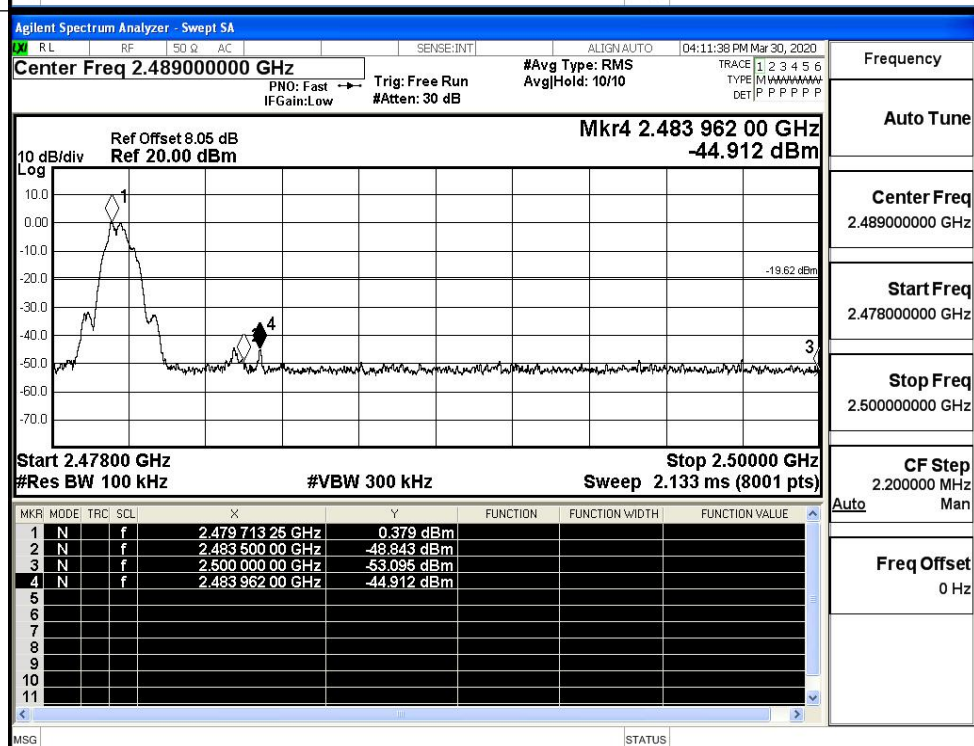
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.253	-49.727	-22.25	PASS
BT LE	HCH	0.379	-44.912	-19.62	PASS

Test Graphs

LCH



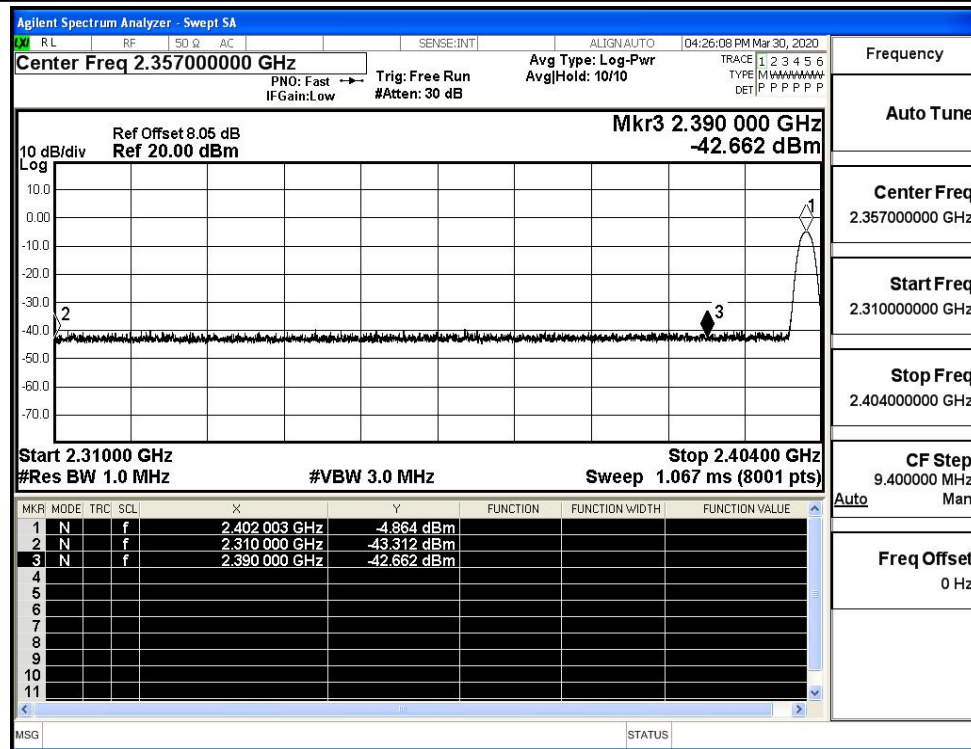
HCH



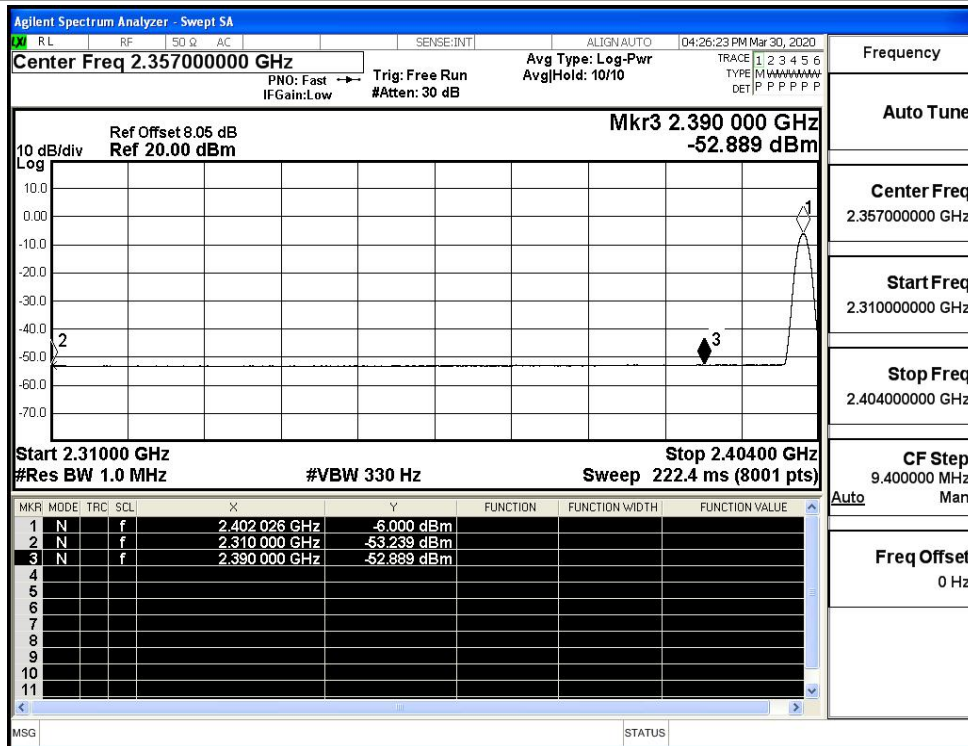
A.7 Restrict-band band-edge measurements

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	-43.31	2.0	0	53.92	PEAK	74	PASS
		Ant1	2310.0	-53.24	2.0	0	43.99	AV	54	PASS
		Ant1	2390.0	-42.66	2.0	0	54.57	PEAK	74	PASS
		Ant1	2390.0	-52.89	2.0	0	44.34	AV	54	PASS
	2480	Ant1	2483.5	-42.23	2.0	0	55.00	PEAK	74	PASS
		Ant1	2483.5	-52.39	2.0	0	44.84	AV	54	PASS
		Ant1	2500.0	-41.43	2.0	0	55.80	PEAK	74	PASS
		Ant1	2500.0	-52.23	2.0	0	45.00	AV	54	PASS

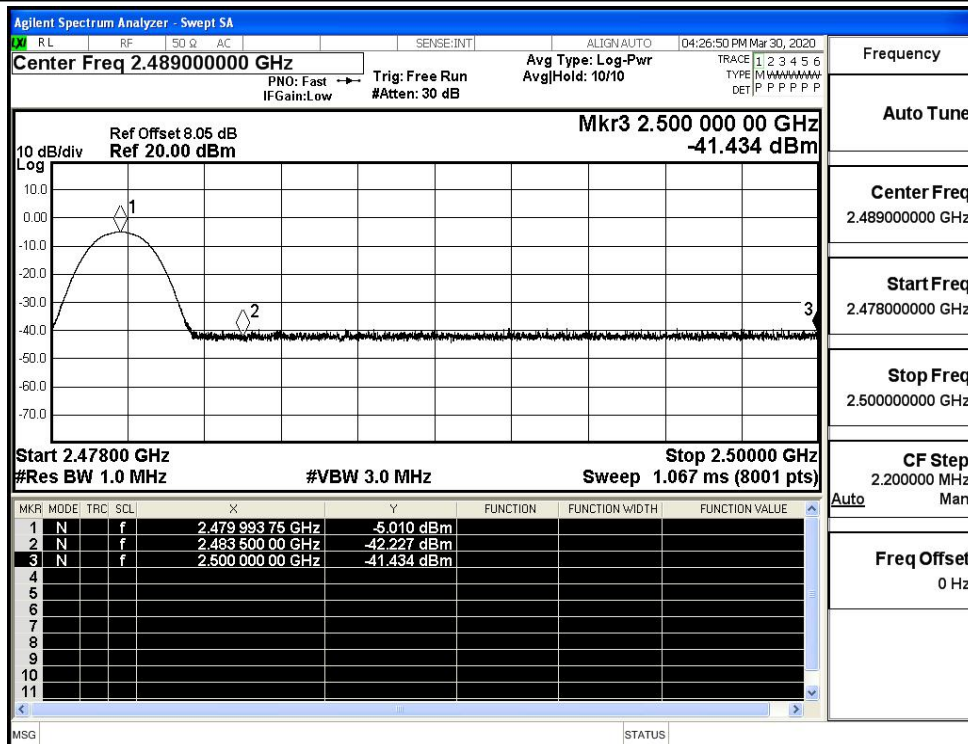
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

