

Appendix B

RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Smart shopping cart

Trade Mark: Caper

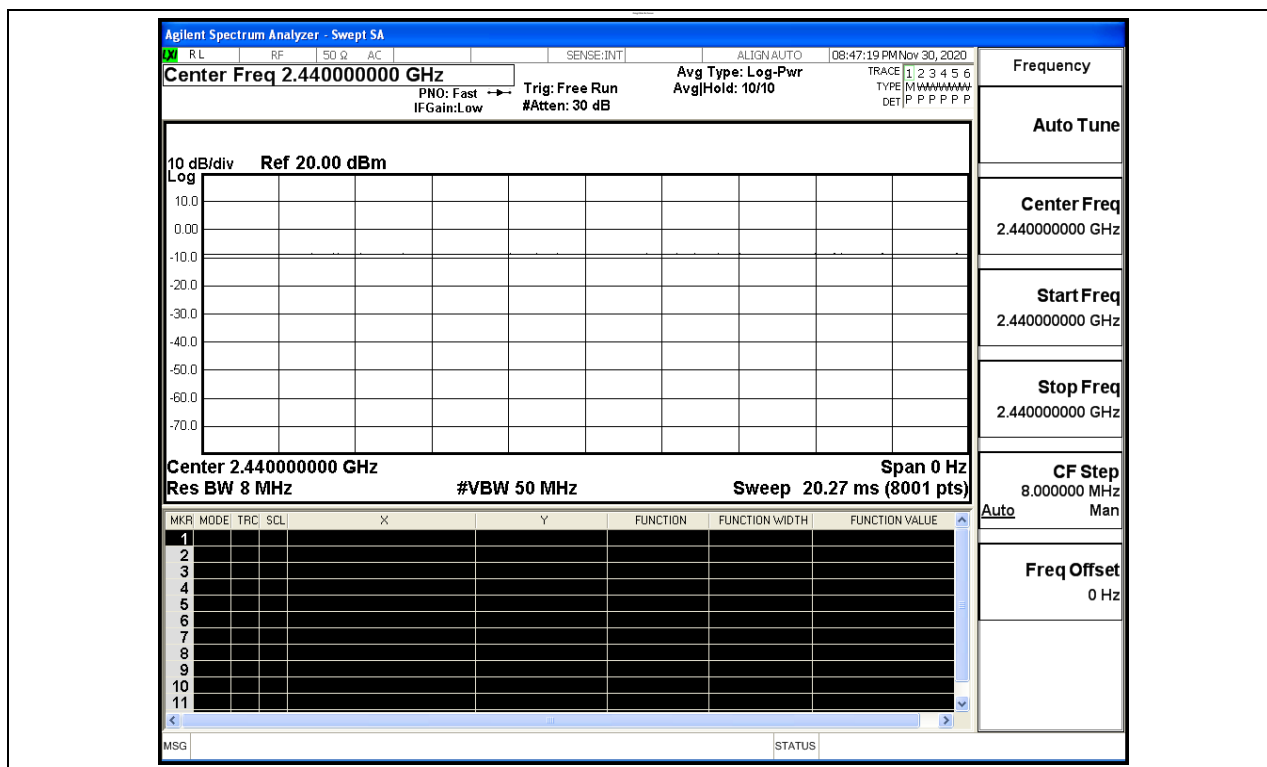
Test Model: Caper-V010.1

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	CRAL FU
Supervised by:	Li Huan

B.1 Duty Cycle

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

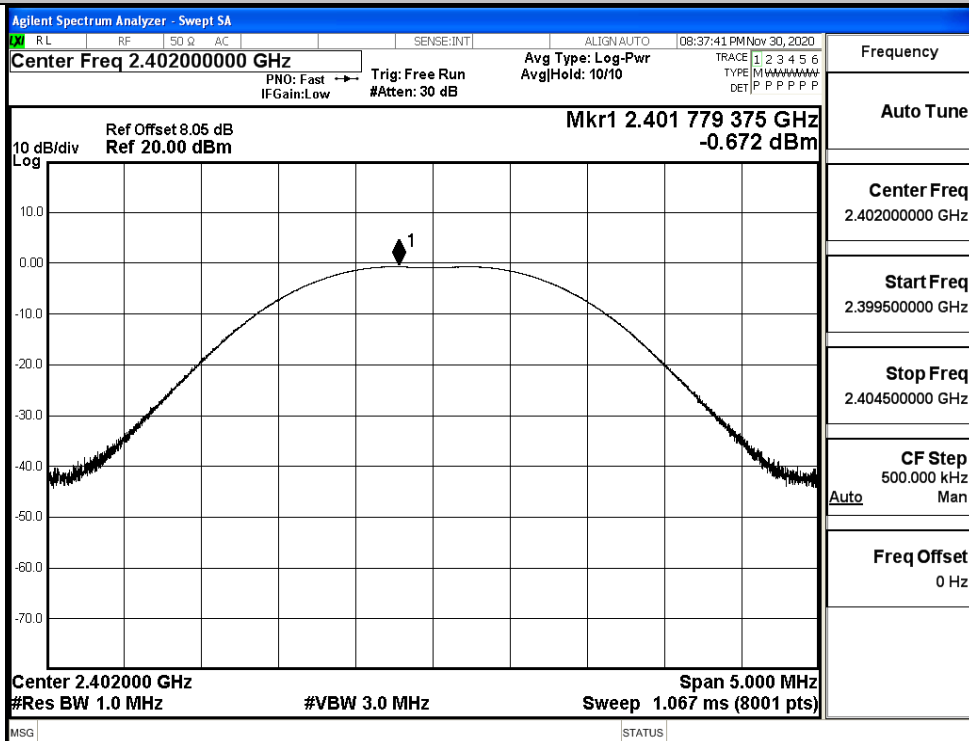


B.2 Maximum Conducted Peak Output Power

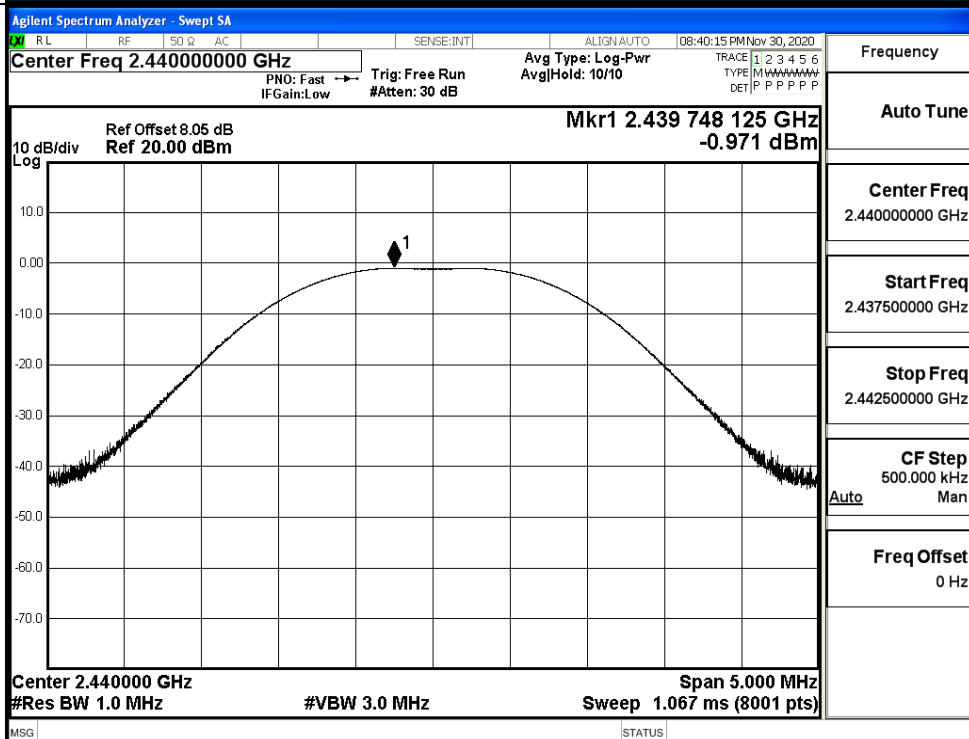
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.672	30	PASS
BT LE	MCH	-0.971	30	PASS
BT LE	HCH	-1.745	30	PASS

Test Graphs

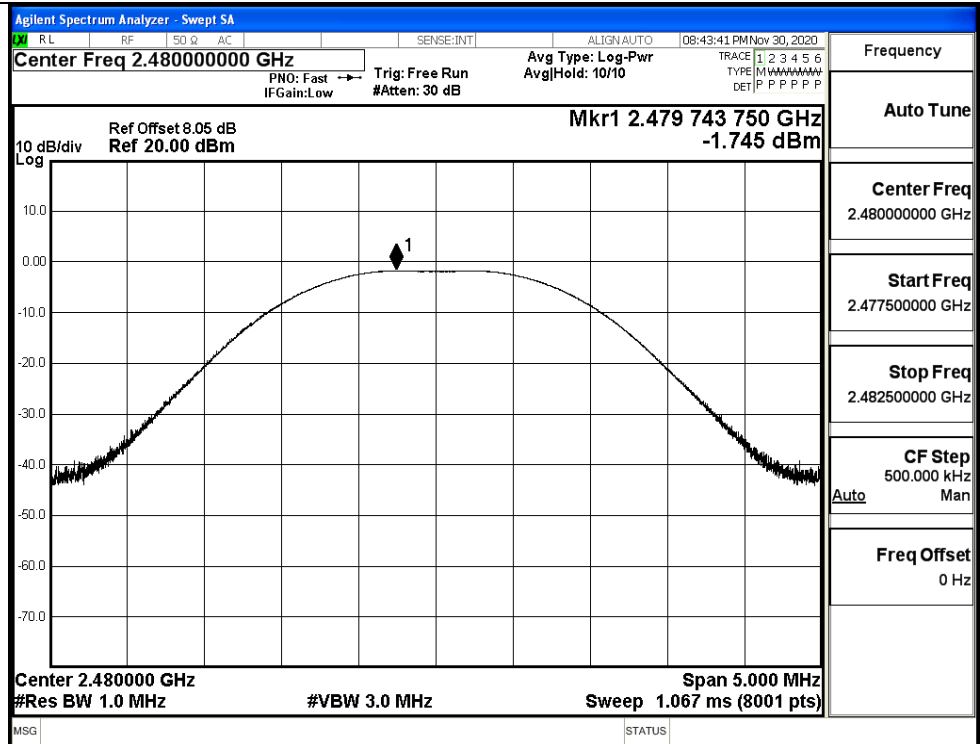
LCH



MCH



HCH

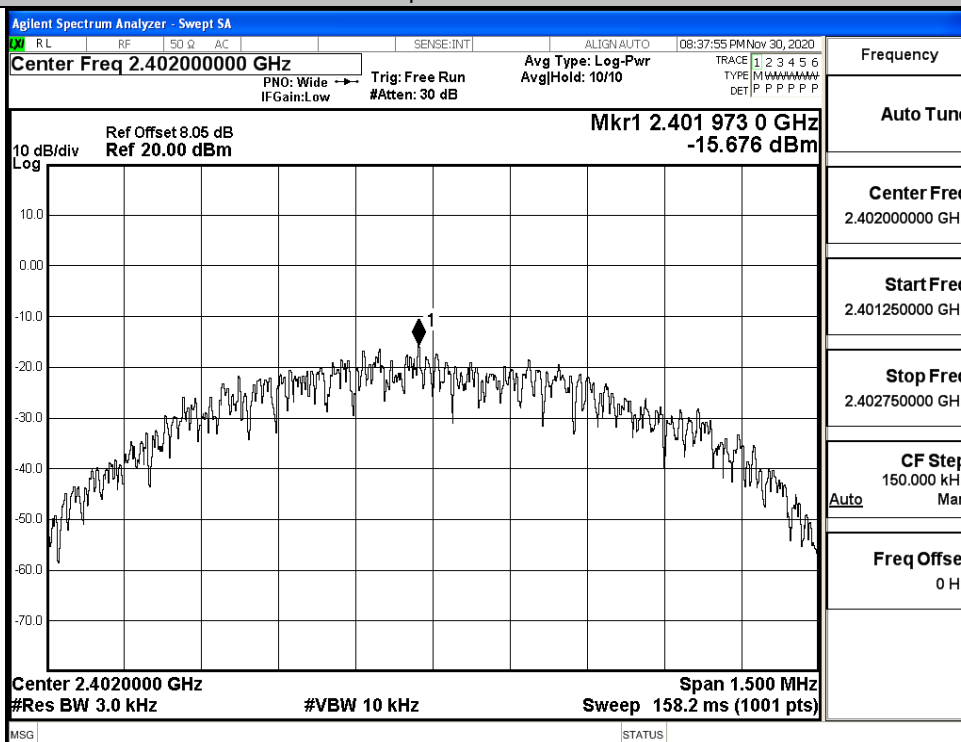


B.3 Maximum Power Spectral Density

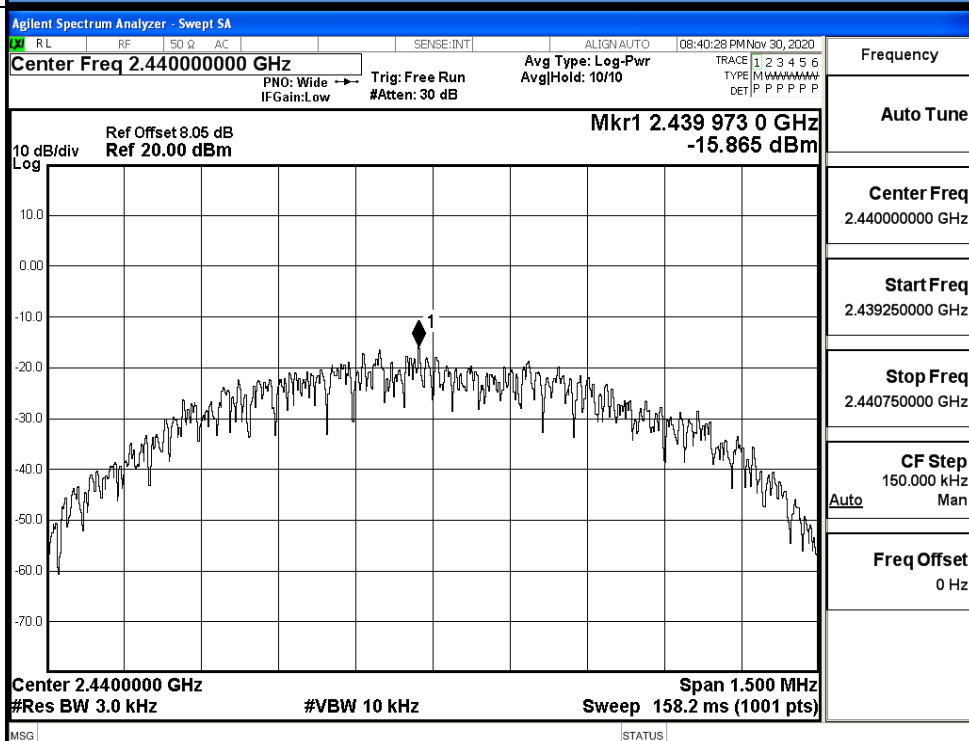
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.676	8	PASS
BT LE	MCH	-15.865	8	PASS
BT LE	HCH	-16.661	8	PASS

Test Graphs

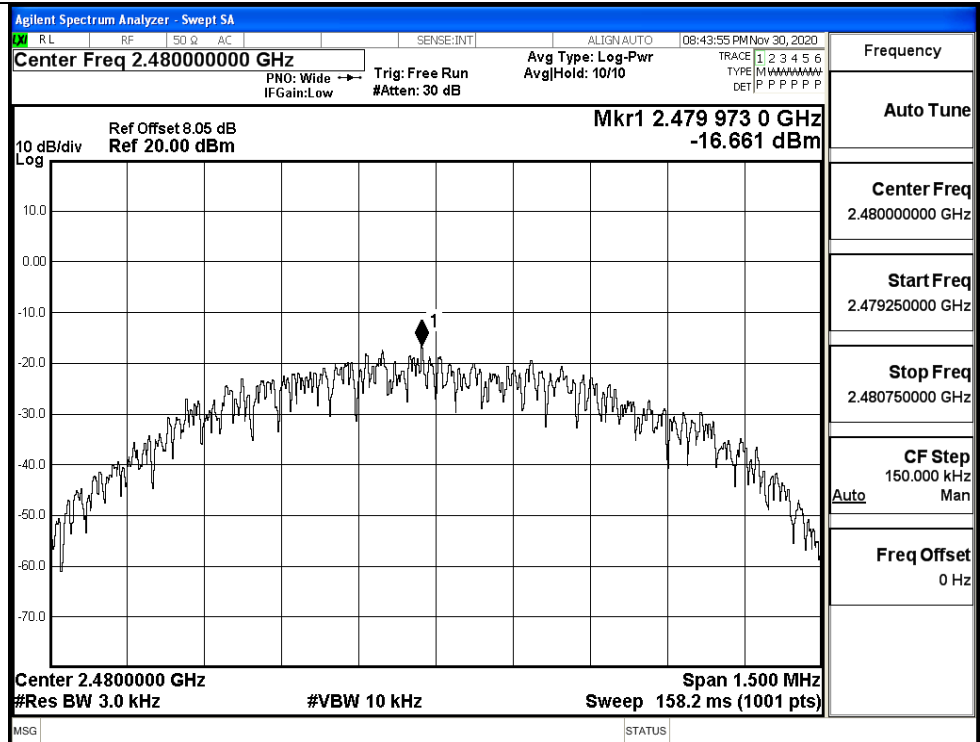
LCH



MCH



HCH

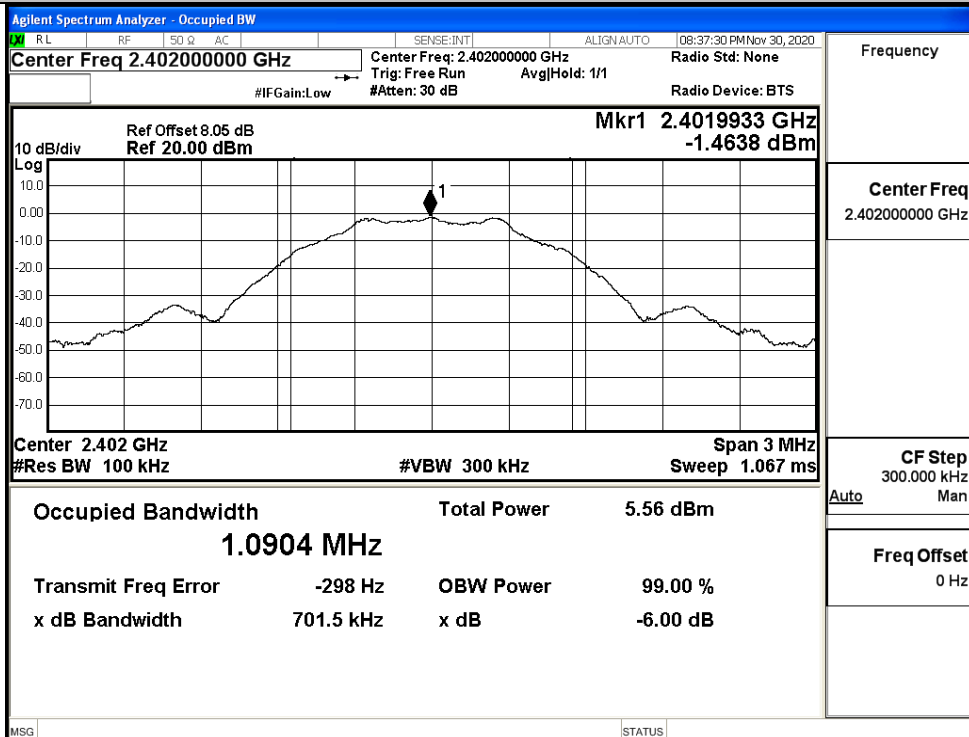


B.4 6dB Bandwidth

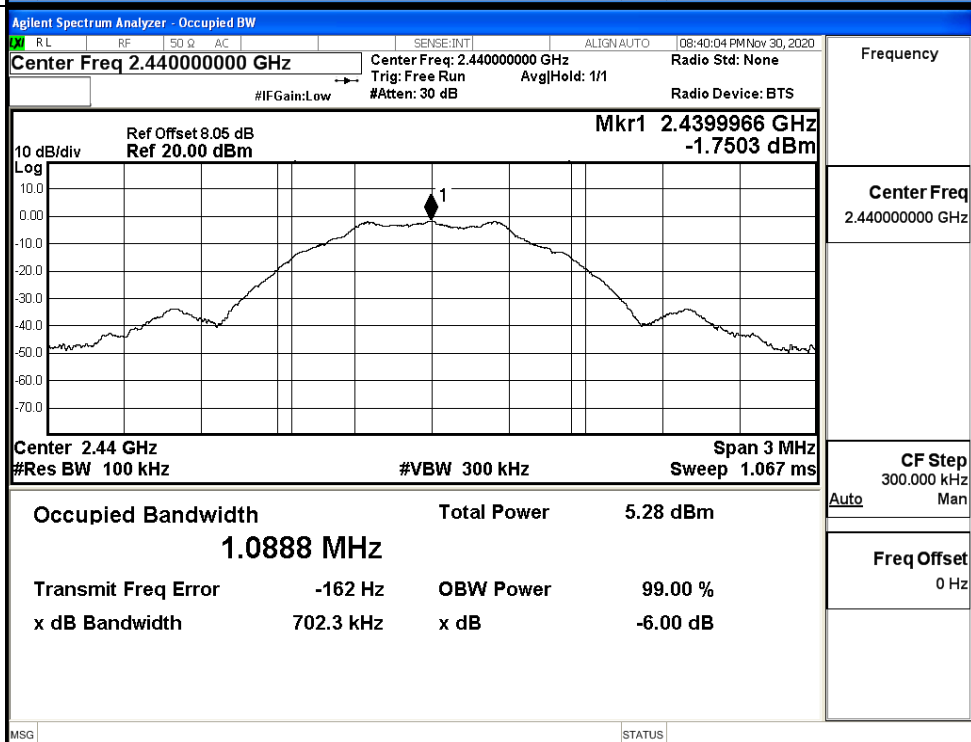
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7015	≥ 0.5	PASS
BT LE	MCH	0.7023	≥ 0.5	PASS
BT LE	HCH	0.6923	≥ 0.5	PASS

Test Graphs

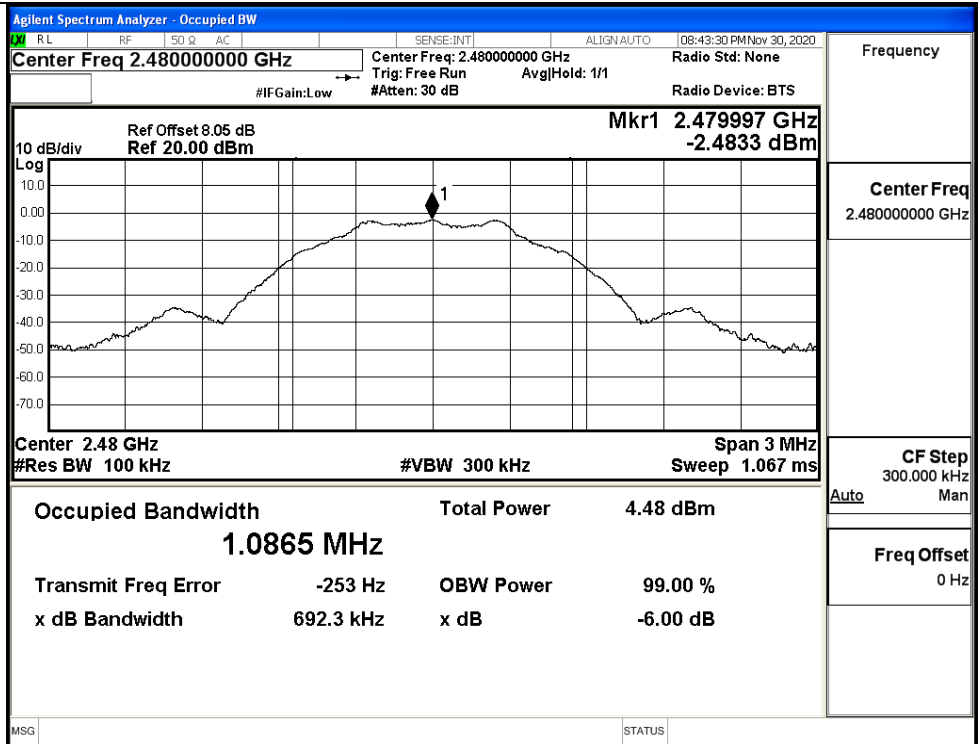
LCH



MCH



HCH

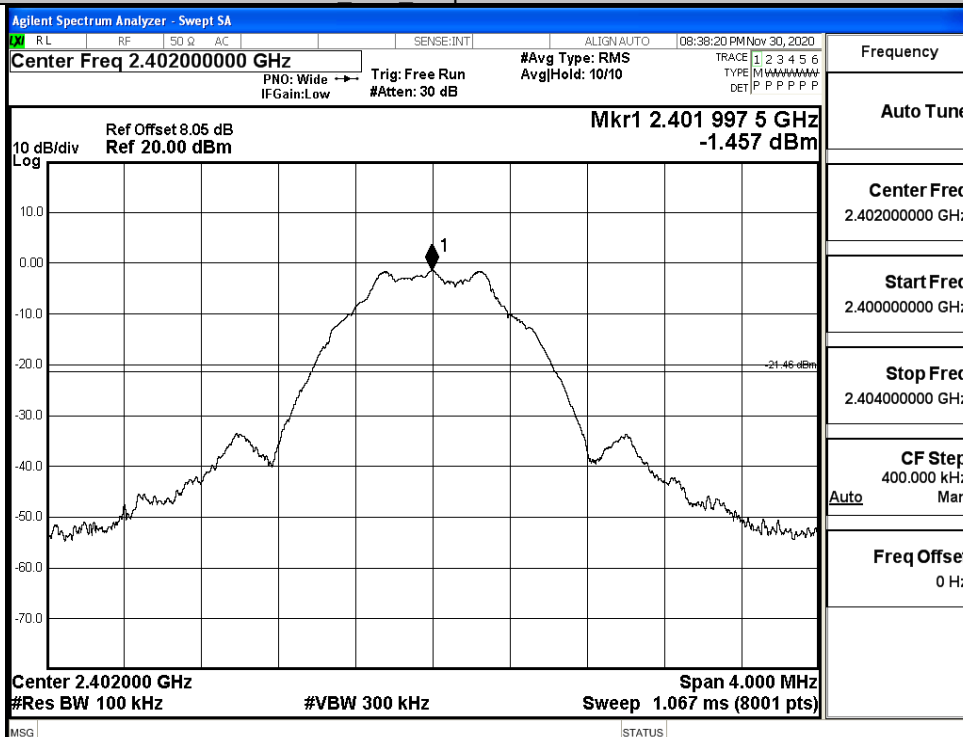


B.5 RF Conducted Spurious Emissions

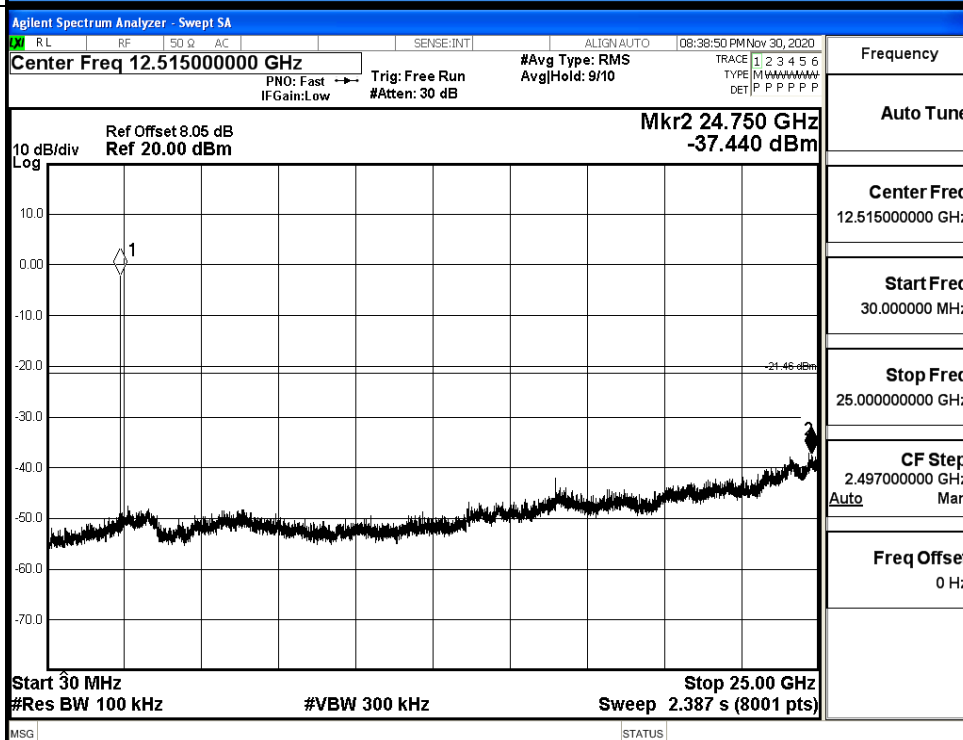
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.457	-37.440	-21.457	PASS
BT LE	MCH	-1.826	-36.537	-21.826	PASS
BT LE	HCH	-2.514	-37.222	-22.514	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

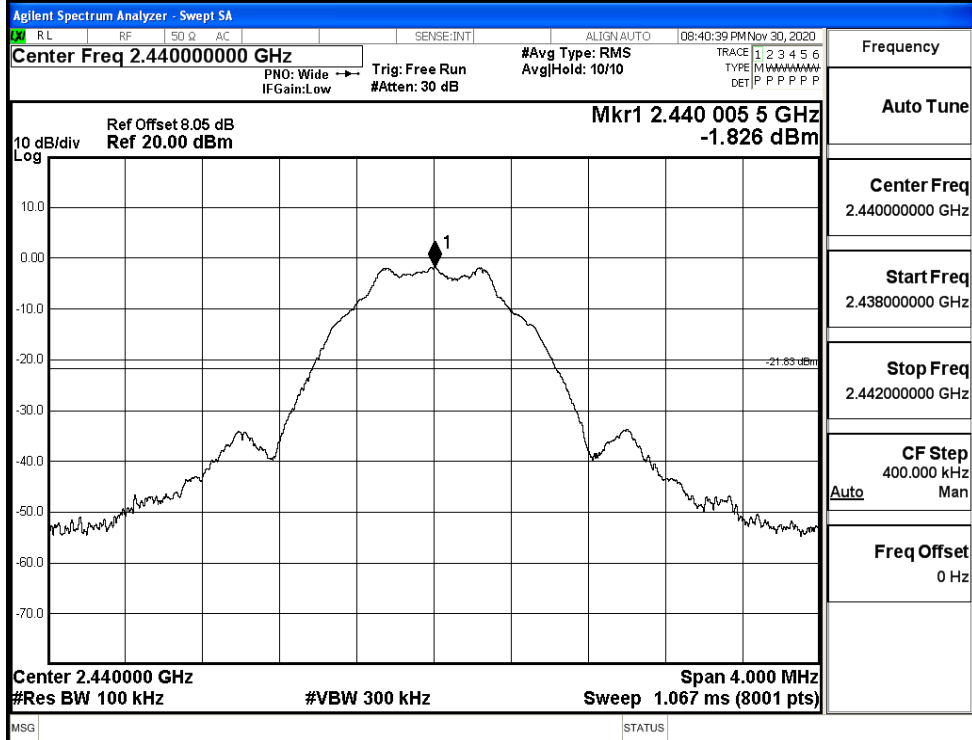


Puw/BT LE/LCH

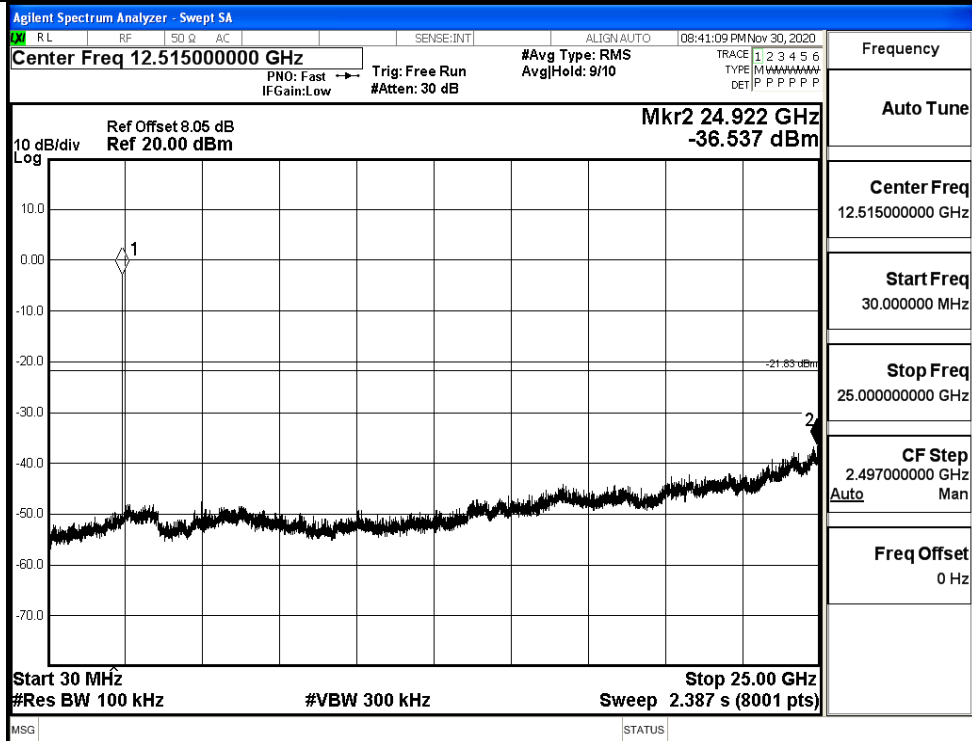


BT LE MCH Graphs

Pref/BT LE/MCH

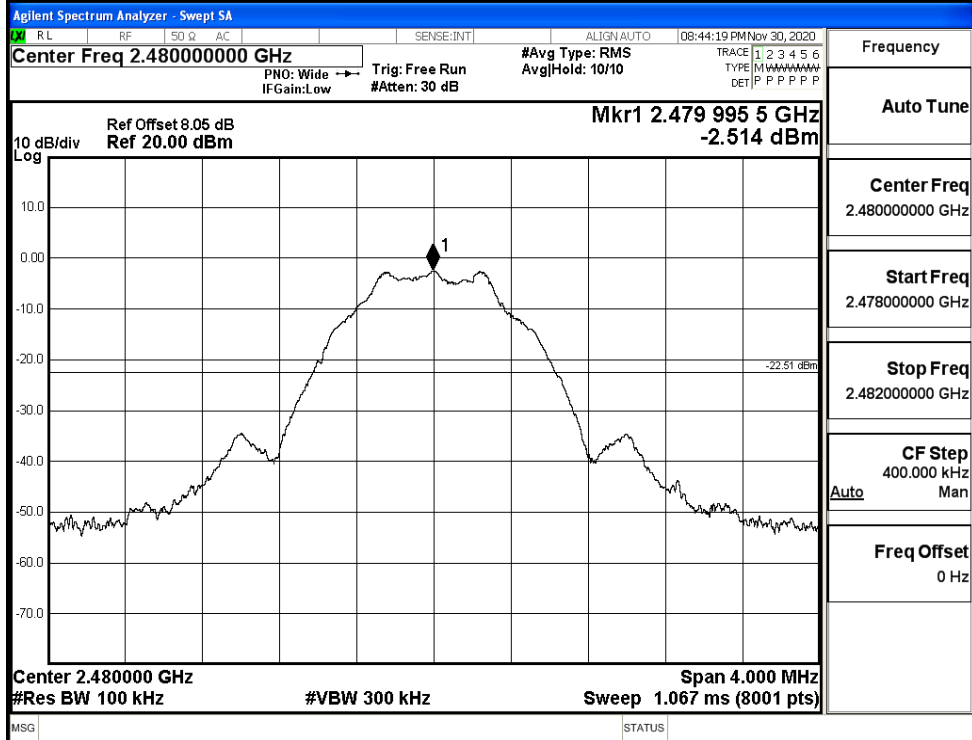


Puw/BT LE/MCH

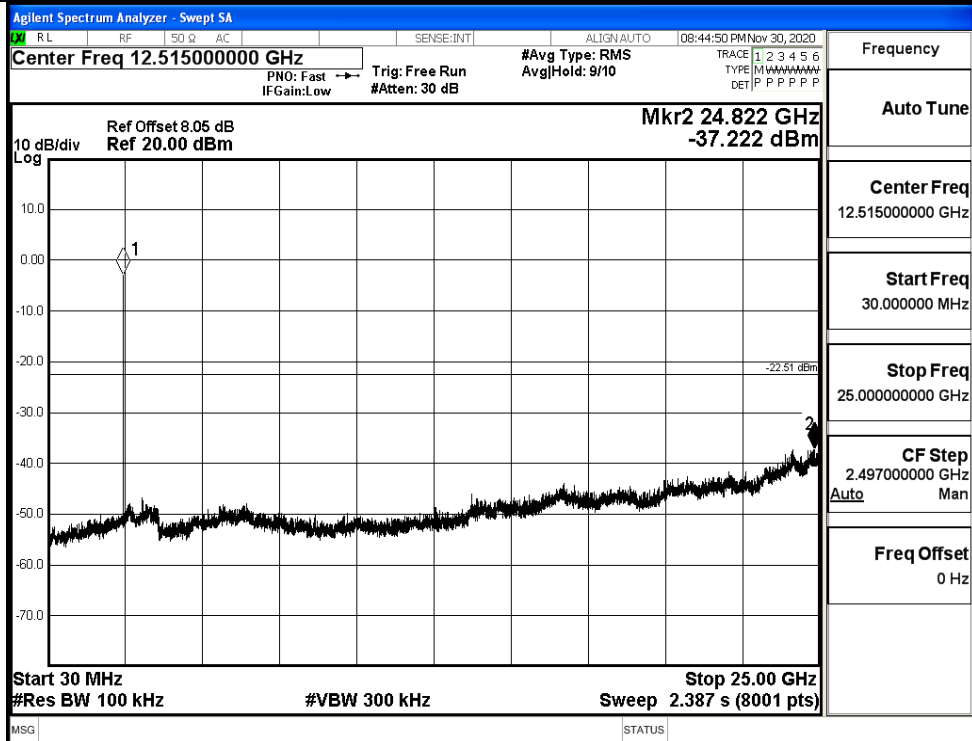


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

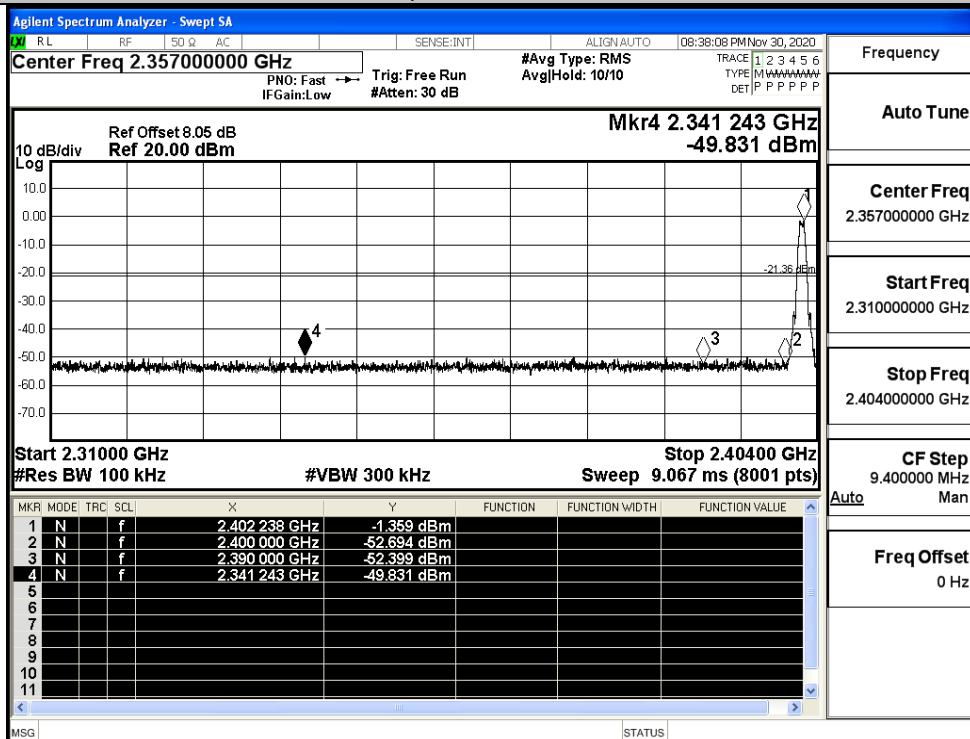


B.6 Band-edge for RF Conducted Emissions

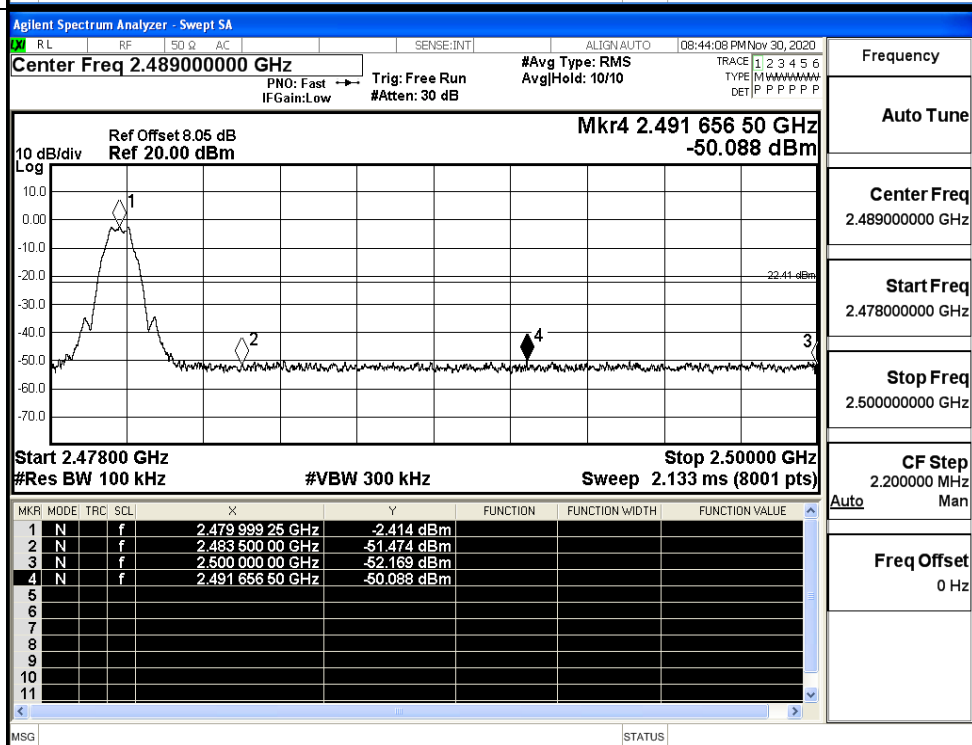
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.359	-49.831	-21.36	PASS
BT LE	HCH	-2.414	-50.088	-22.41	PASS

Test Graphs

LCH



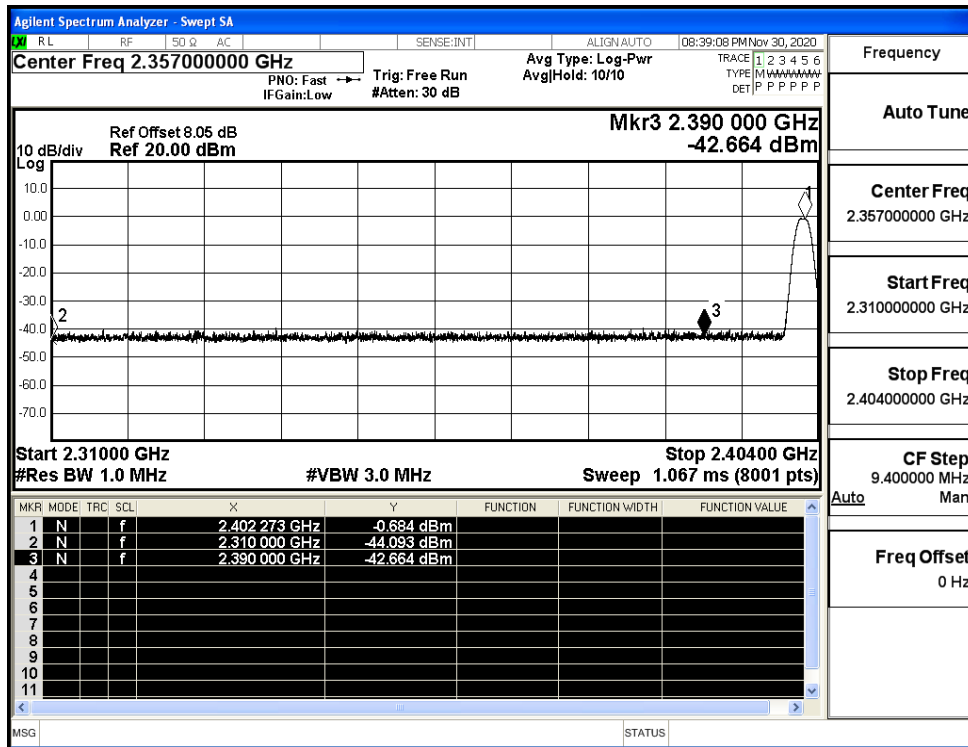
HCH



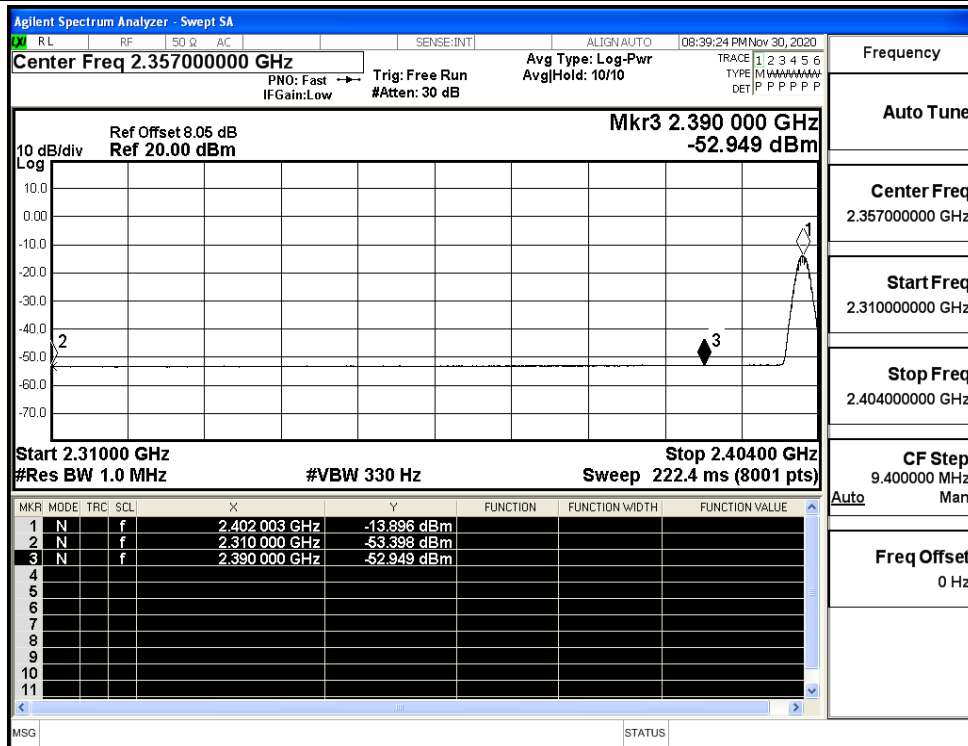
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-44.09	2.0	0	51.16	PEAK	74	PASS
		Ant1	2310.0	-53.40	2.0	0	41.86	AV	54	PASS
		Ant1	2390.0	-42.66	2.0	0	52.59	PEAK	74	PASS
		Ant1	2390.0	-52.95	2.0	0	42.31	AV	54	PASS
	2480	Ant1	2483.5	-42.00	2.0	0	53.26	PEAK	74	PASS
		Ant1	2483.5	-52.56	2.0	0	42.70	AV	54	PASS
		Ant1	2500.0	-41.98	2.0	0	53.28	PEAK	74	PASS
		Ant1	2500.0	-52.31	2.0	0	42.94	AV	54	PASS

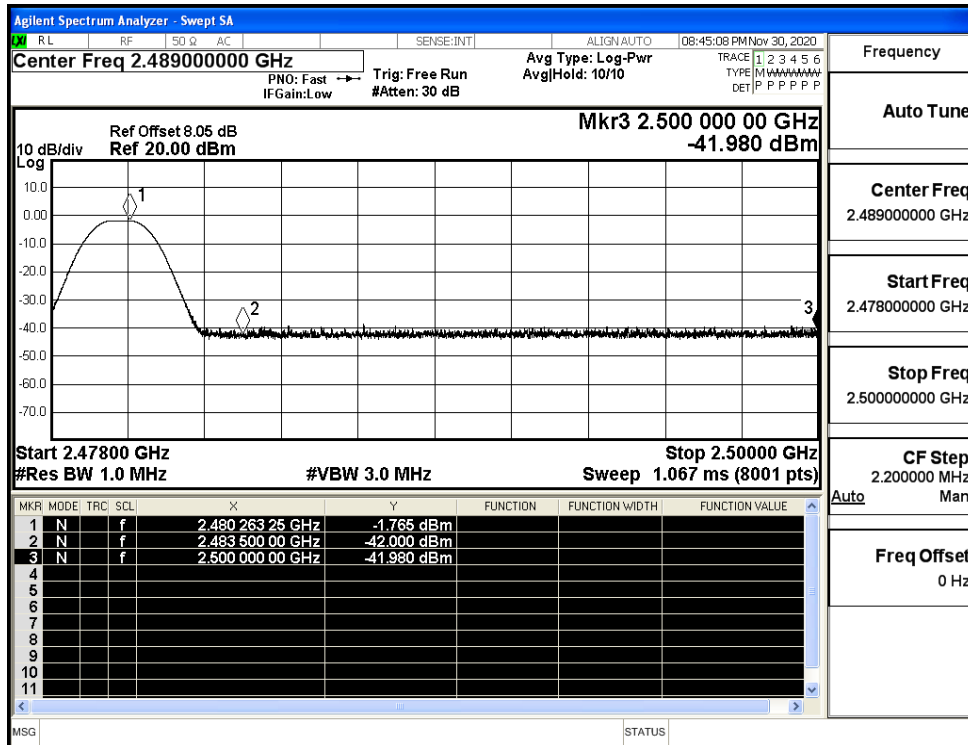
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

