

Appendix B

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: EcoExtreme2

Trade Mark: ECOXGEAR

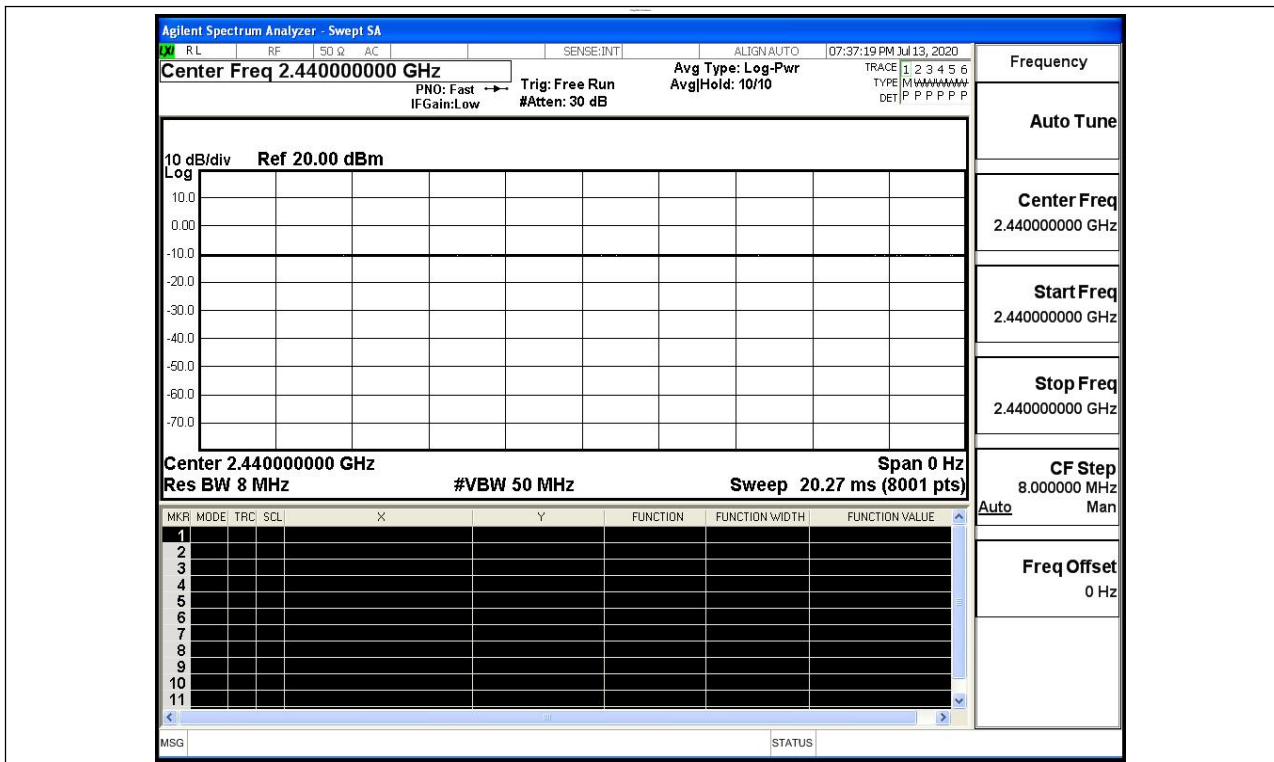
Test Model: GDI-EX3W210

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Li Huan

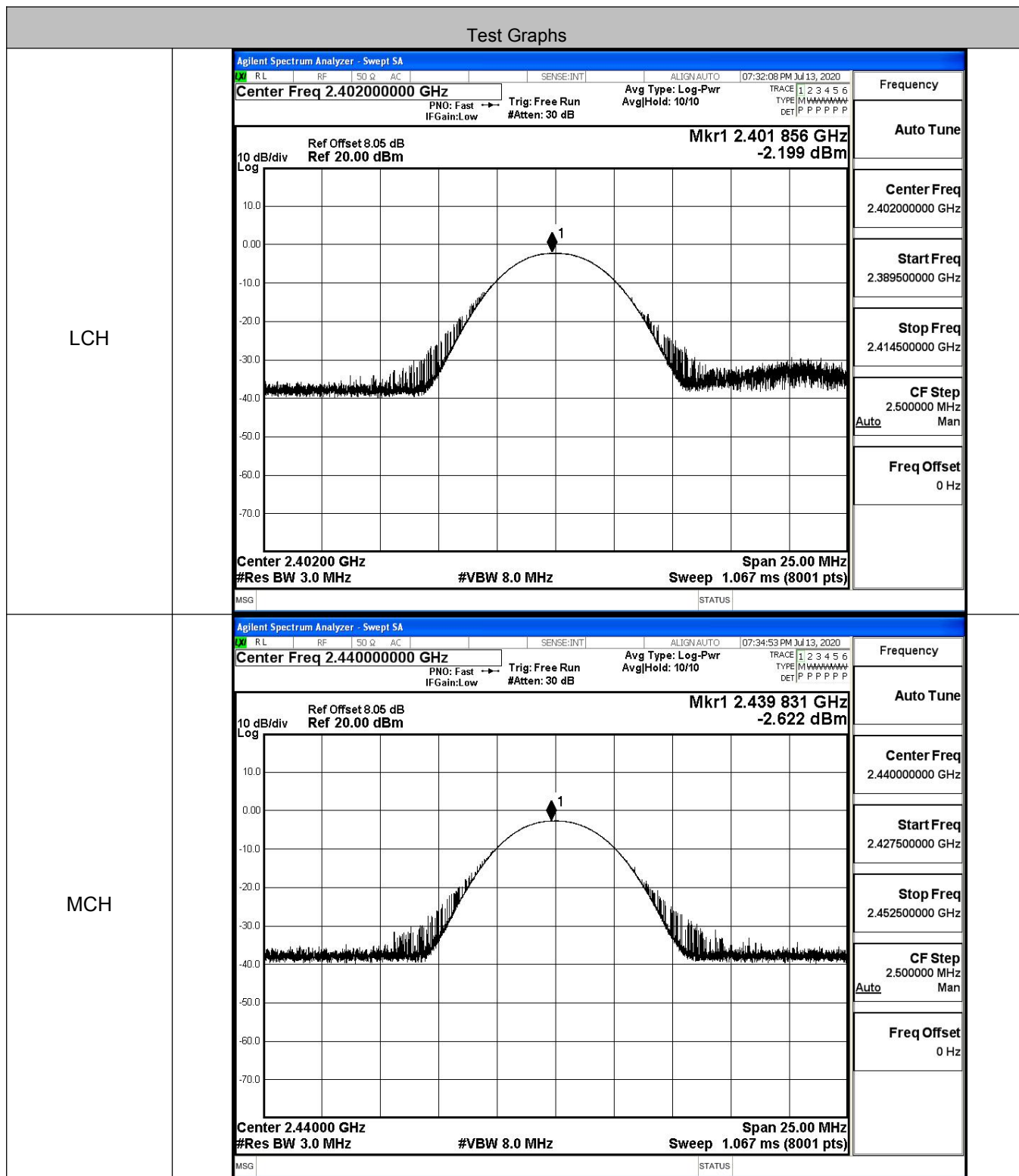
B.1 Duty Cycle

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

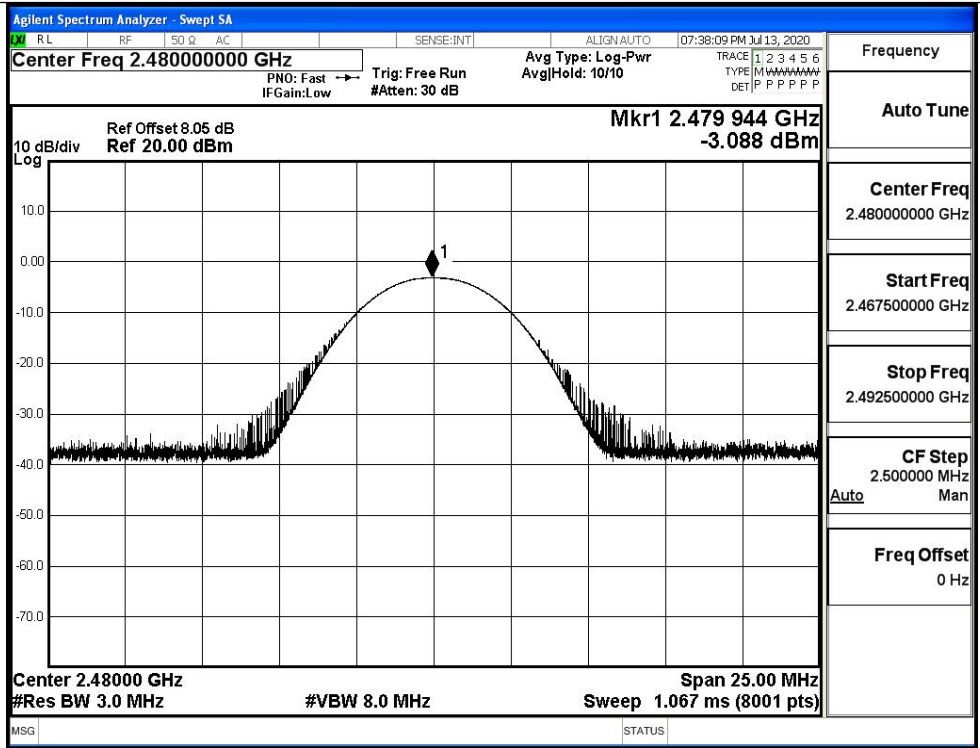


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.199	30	PASS
BT LE	MCH	-2.622	30	PASS
BT LE	HCH	-3.088	30	PASS



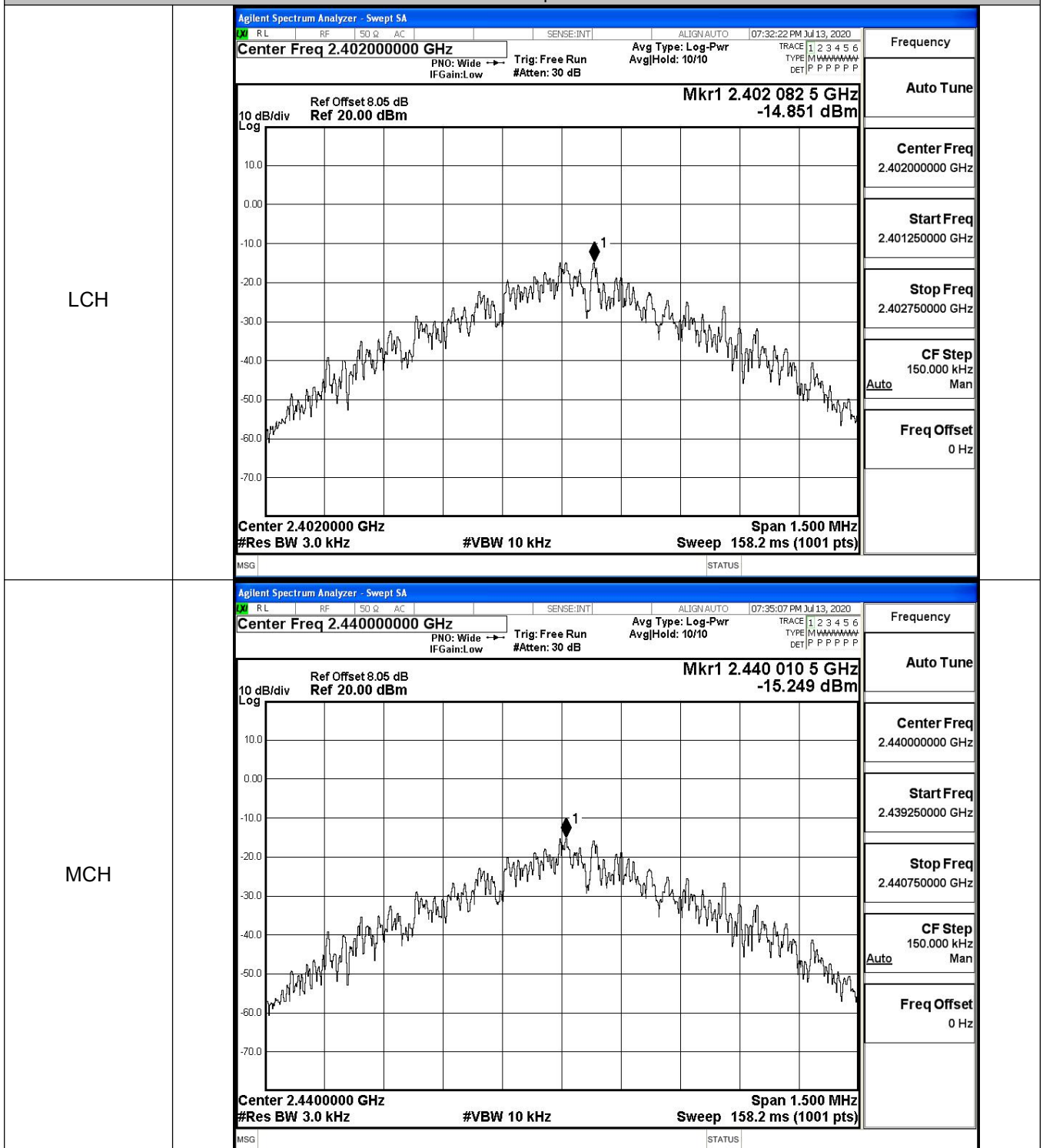
HCH



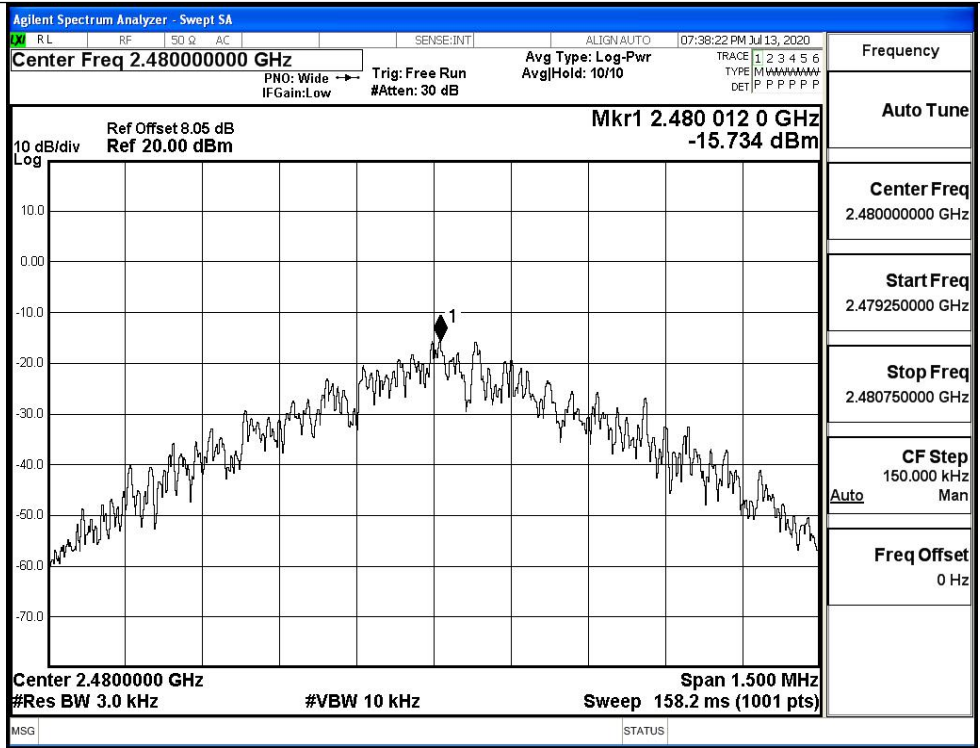
B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.851	8	PASS
BT LE	MCH	-15.249	8	PASS
BT LE	HCH	-15.734	8	PASS

Test Graphs



HCH

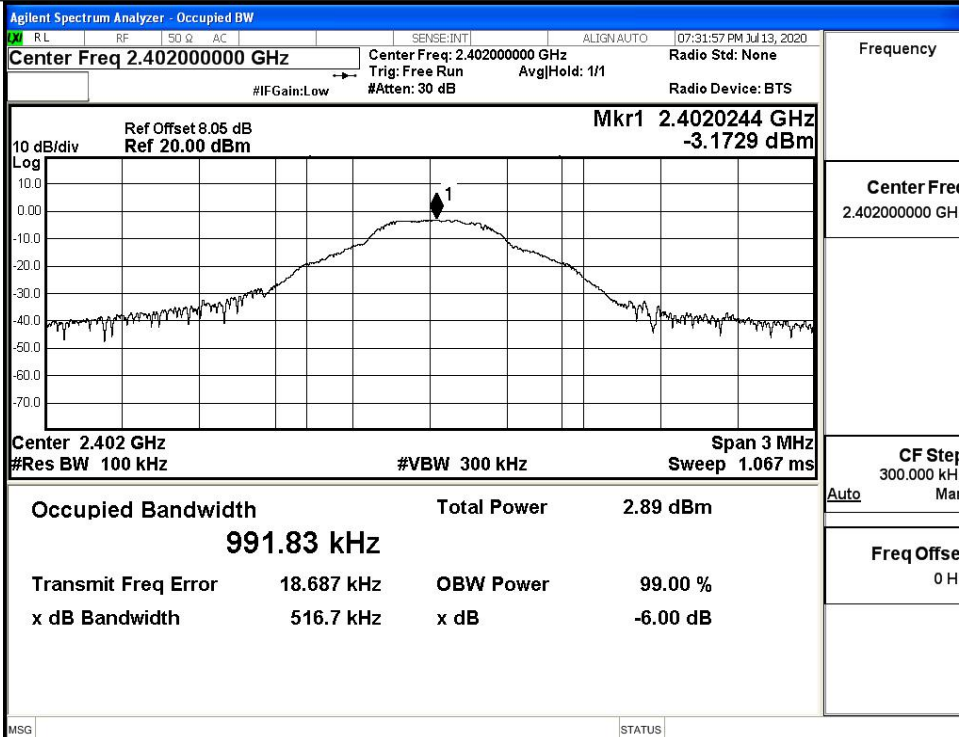


B.4 6dB Bandwidth

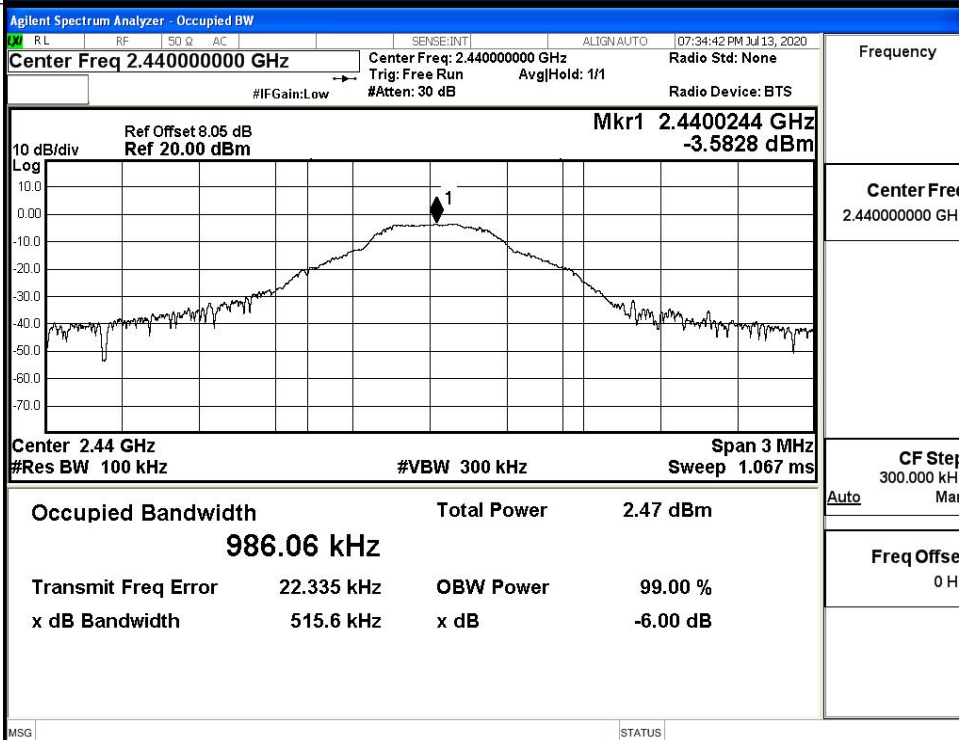
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.5167	≥0.5	PASS
BT LE	MCH	0.5156	≥0.5	PASS
BT LE	HCH	0.5132	≥0.5	PASS

Test Graphs

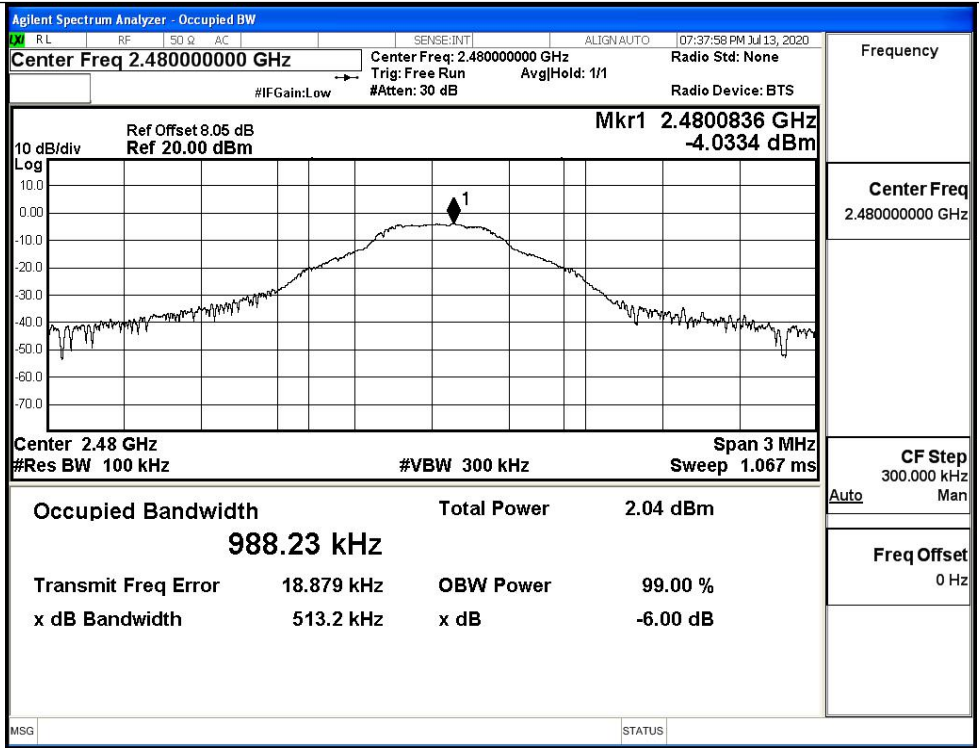
LCH



MCH



HCH

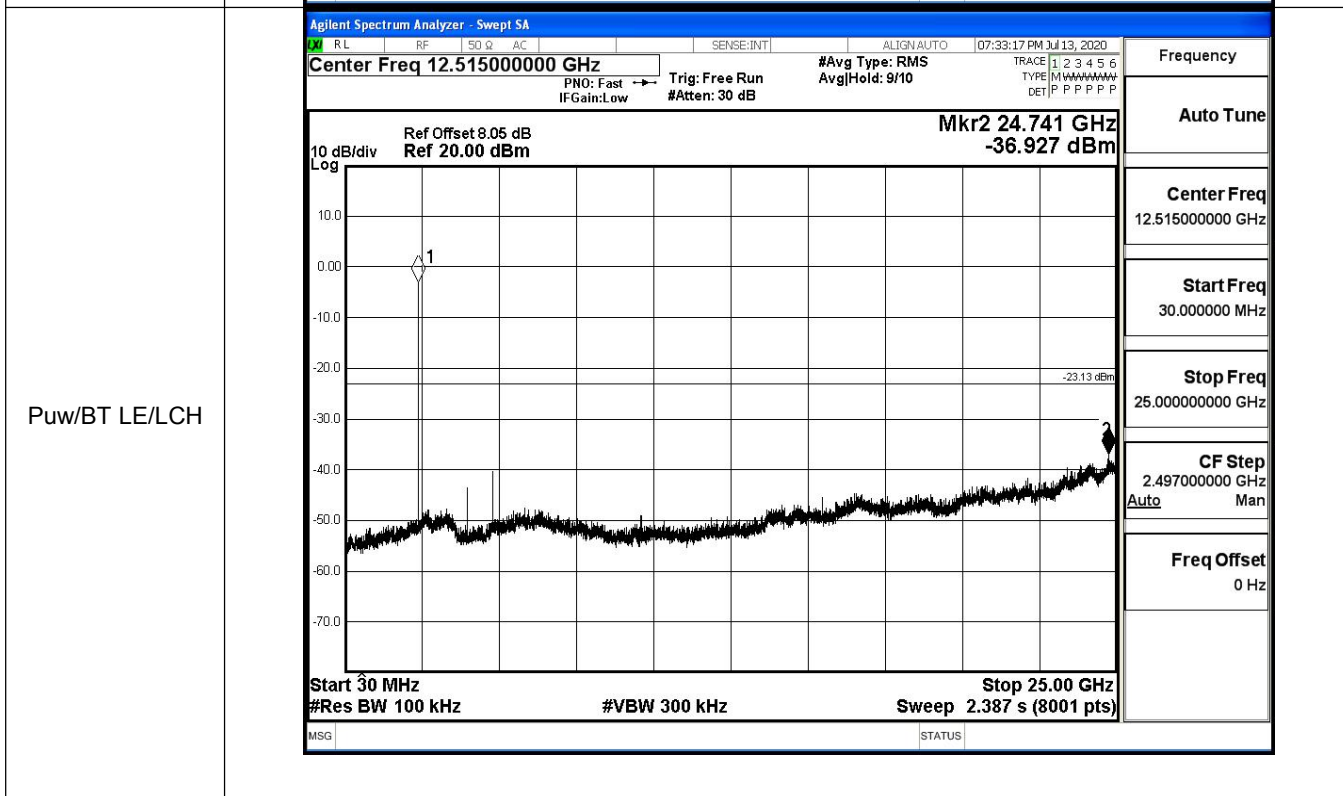
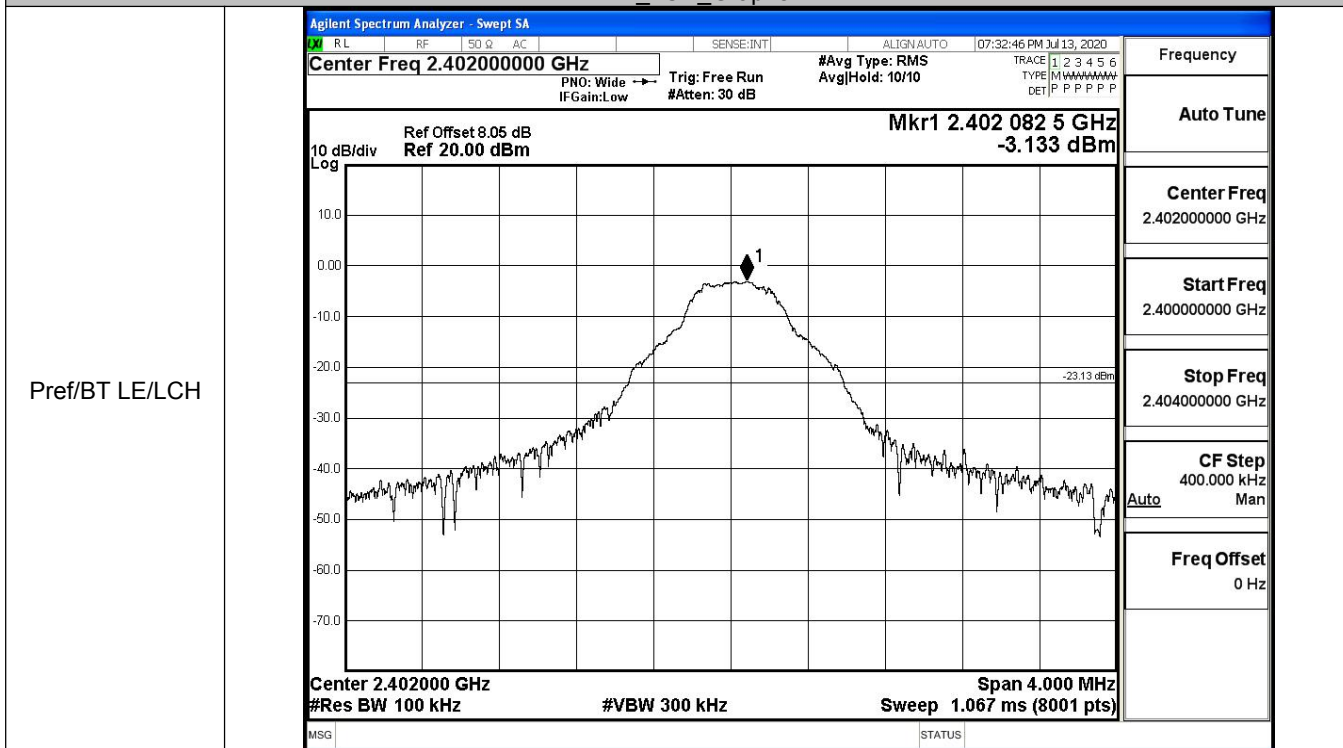


Frequency	Center Freq 2.48000000 GHz
CF Step	300.000 kHz Auto Man
Freq Offset	0 Hz

B.5 RF Conducted Spurious Emissions

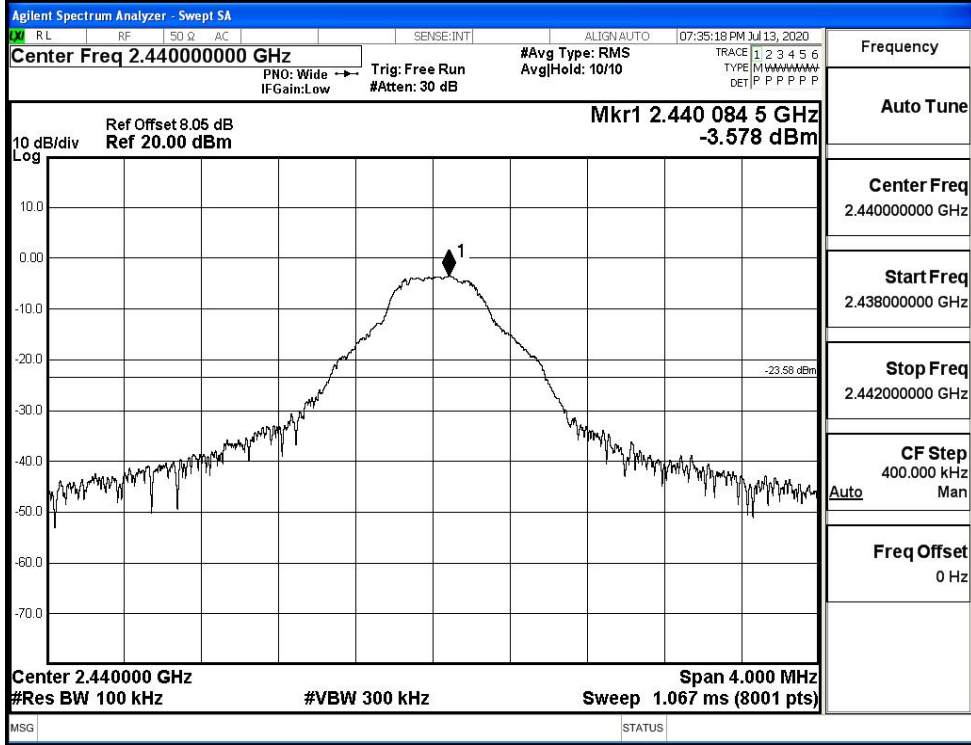
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.133	-36.927	-23.133	PASS
BT LE	MCH	-3.578	-36.745	-23.578	PASS
BT LE	HCH	-3.939	-37.855	-23.939	PASS

BT LE_LCH_Graphs

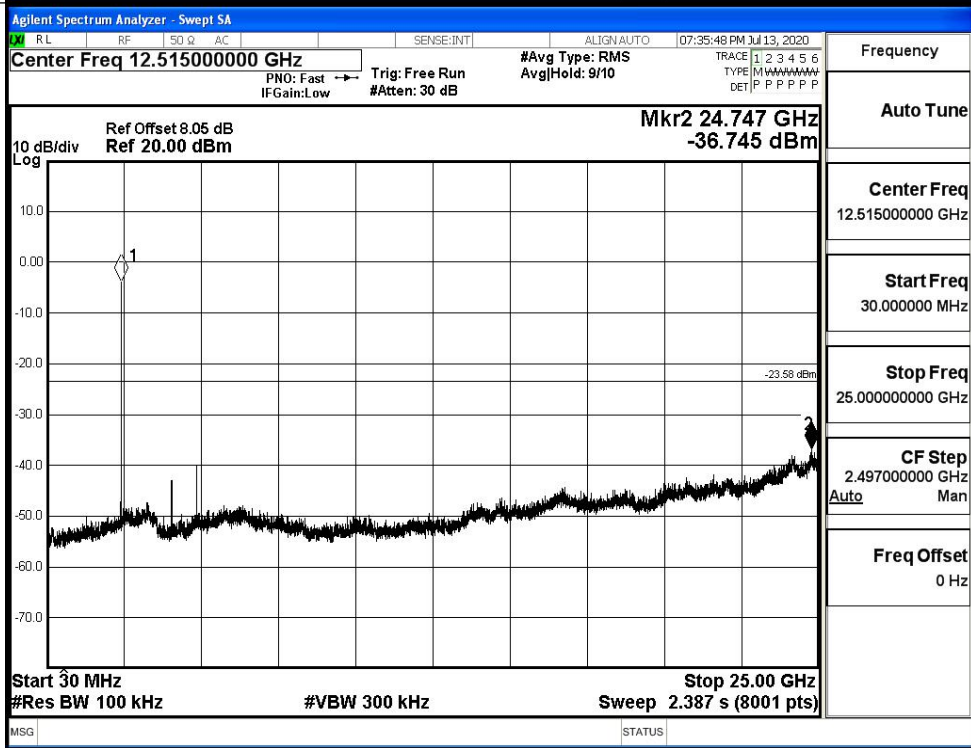


BT LE MCH Graphs

Pref/BT LE/MCH

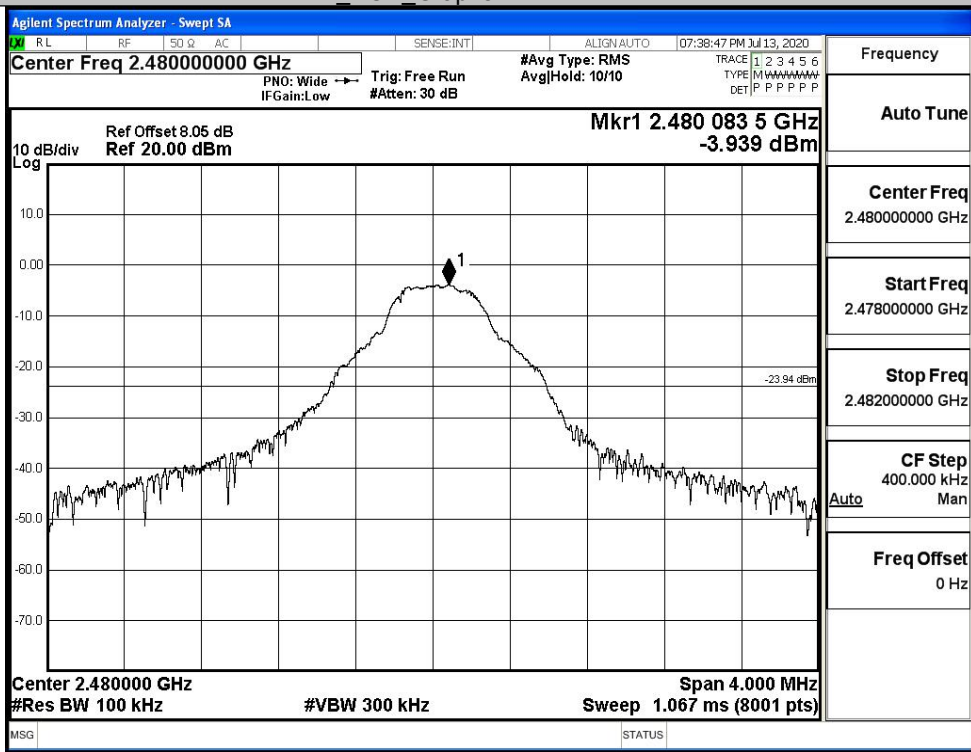


Puw/BT LE/MCH

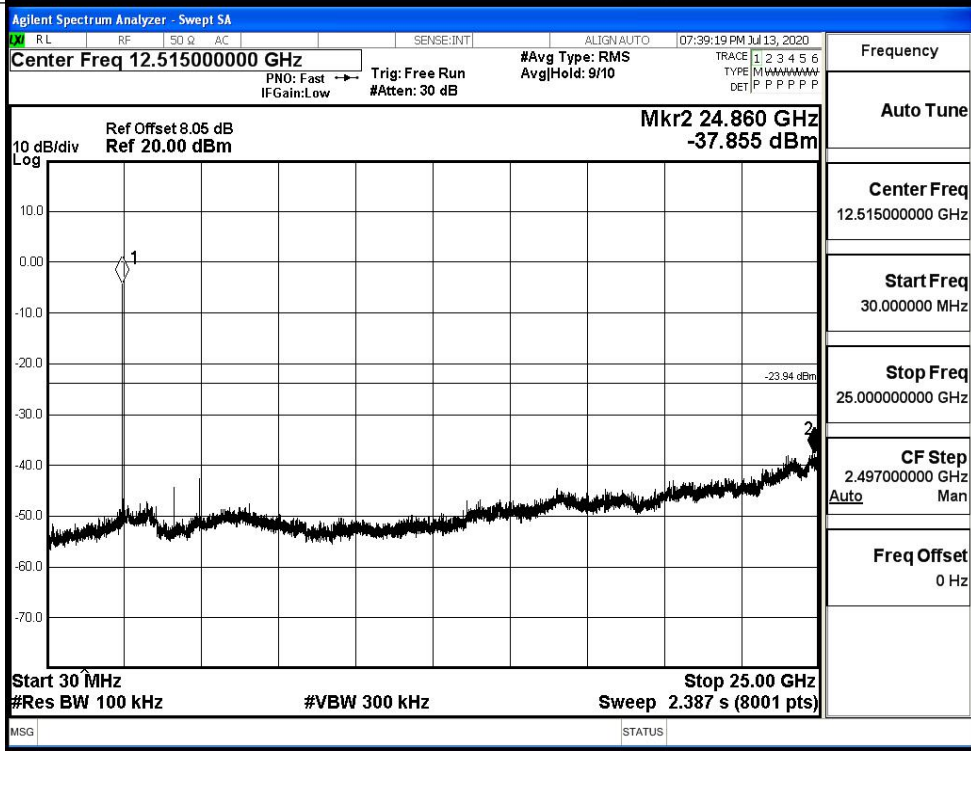


BT LE HCH Graphs

Pref/BT LE/HCH



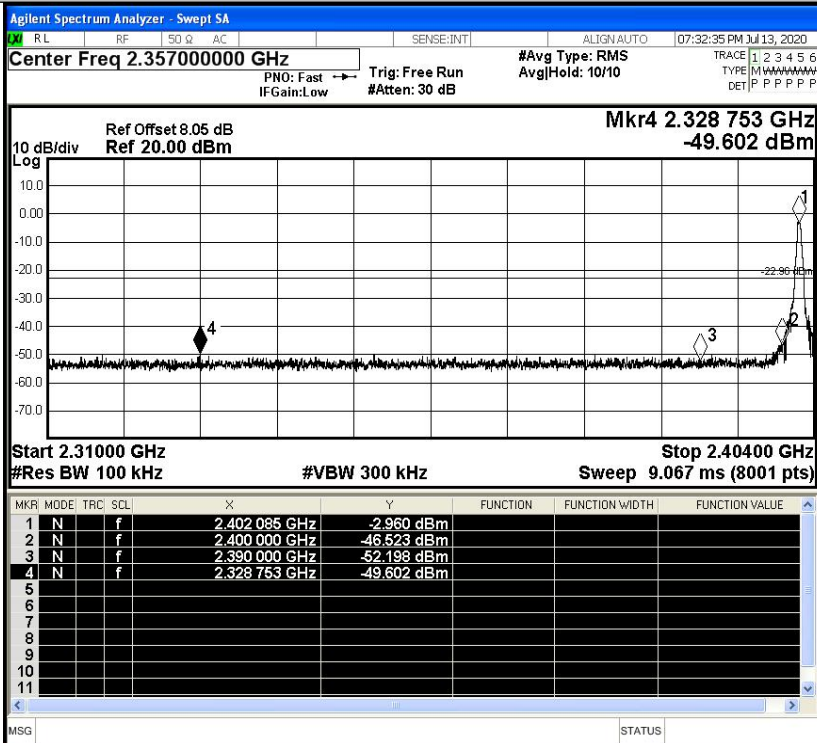
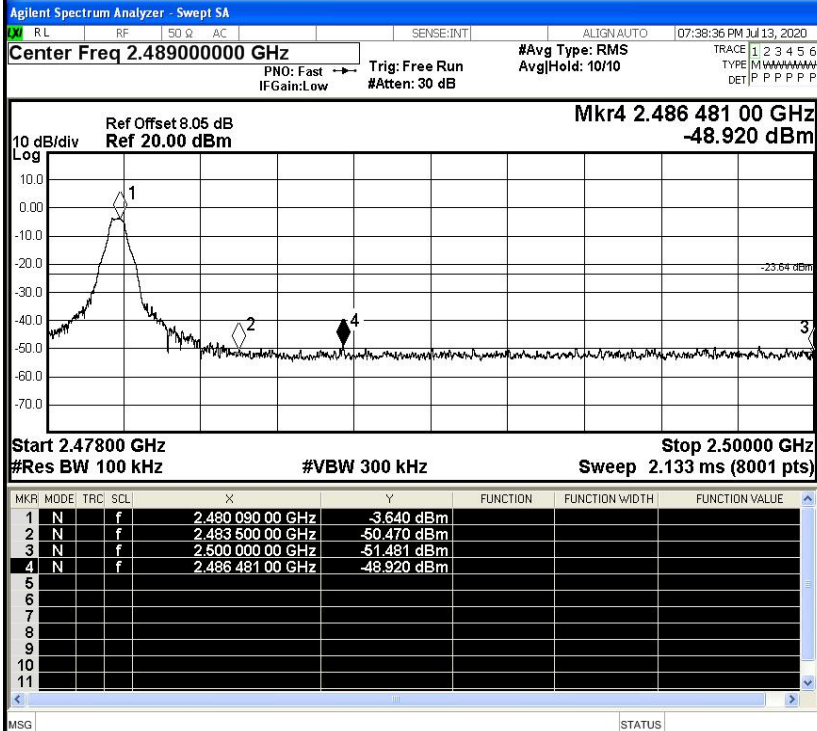
Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.960	-49.602	-22.96	PASS
BT LE	HCH	-3.640	-48.920	-23.64	PASS

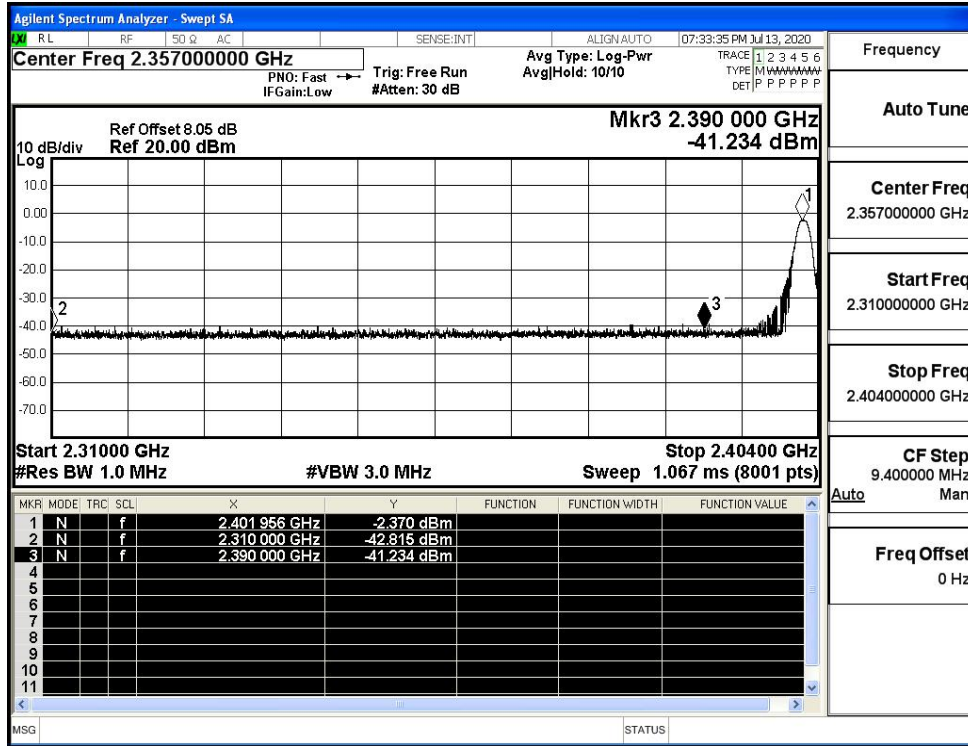
Test Graphs

LCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.35700000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.40400000 GHz</p> <p>CF Step 9.400000 MHz</p> <p>Freq Offset 0 Hz</p>
		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.48900000 GHz</p> <p>Start Freq 2.47800000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 2.200000 MHz</p> <p>Freq Offset 0 Hz</p>

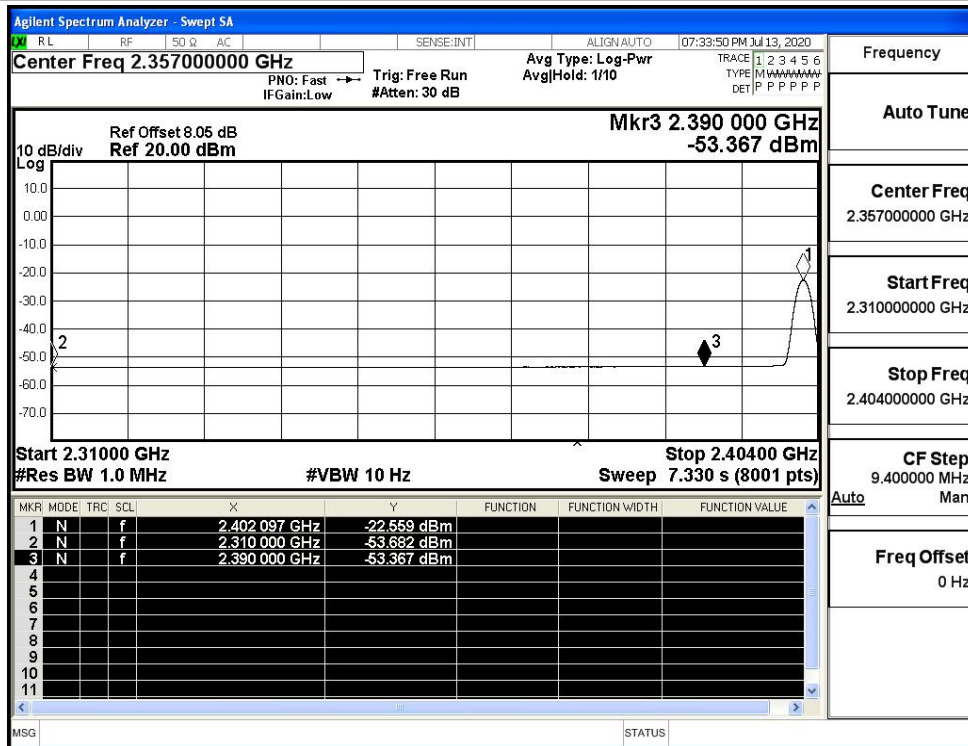
B.7 Restrict-band band-edge measurements

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	-42.82	2.0	0	54.41	PEAK	74	PASS
		Ant1	2310.0	-53.68	2.0	0	43.55	AV	54	PASS
		Ant1	2390.0	-41.23	2.0	0	56.00	PEAK	74	PASS
		Ant1	2390.0	-53.37	2.0	0	43.86	AV	54	PASS
	2480	Ant1	2483.5	-41.83	2.0	0	55.40	PEAK	74	PASS
		Ant1	2483.5	-52.73	2.0	0	44.50	AV	54	PASS
		Ant1	2500.0	-41.38	2.0	0	55.85	PEAK	74	PASS
		Ant1	2500.0	-52.61	2.0	0	44.62	AV	54	PASS

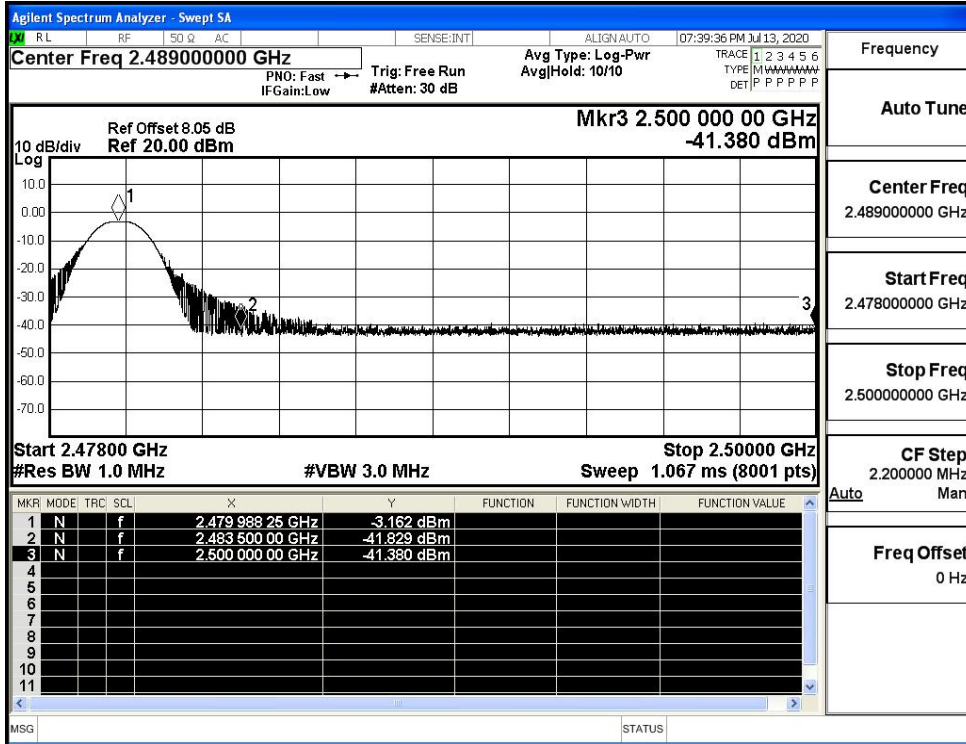
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

