



Appendix B

RF Test Data for BT V5.0 (Conducted Measurement)

Product Name: Formuler Z10 Pro

Trade Mark: FORMULER

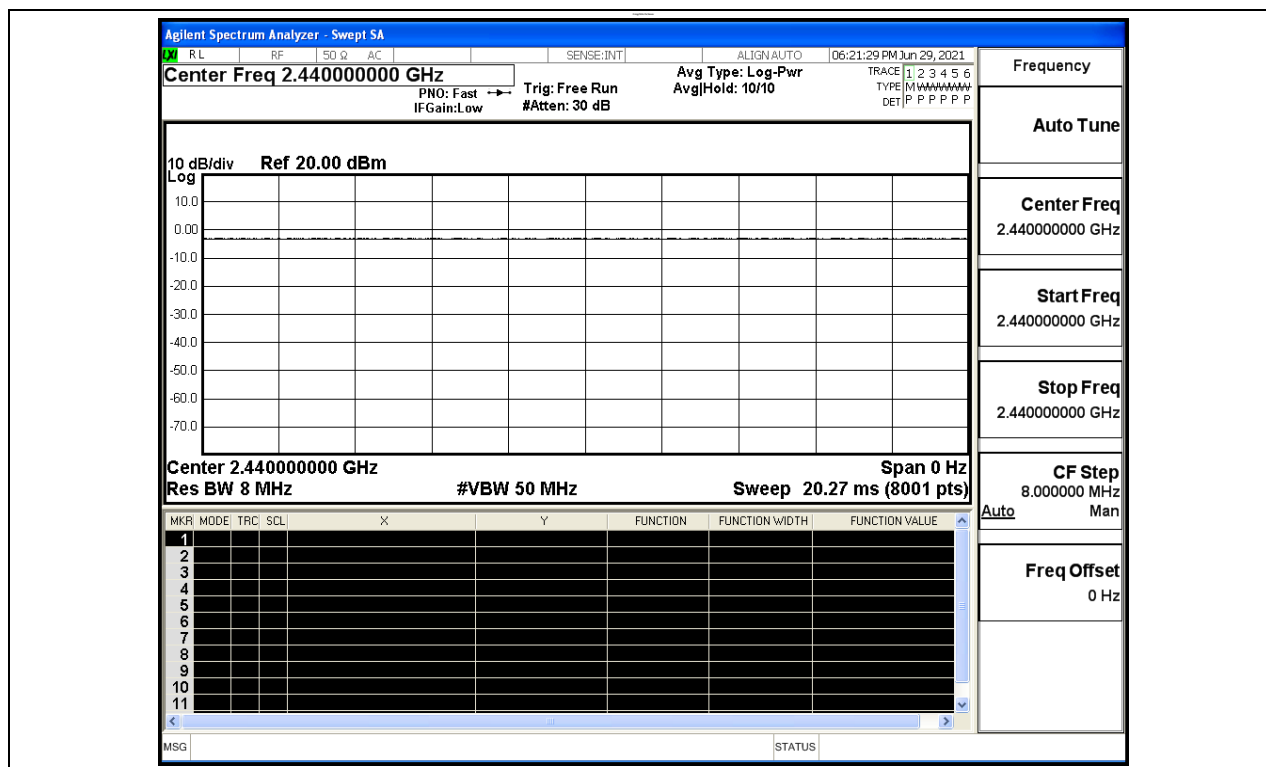
Test Model: Z10 Pro

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

B.1 Duty Cycle

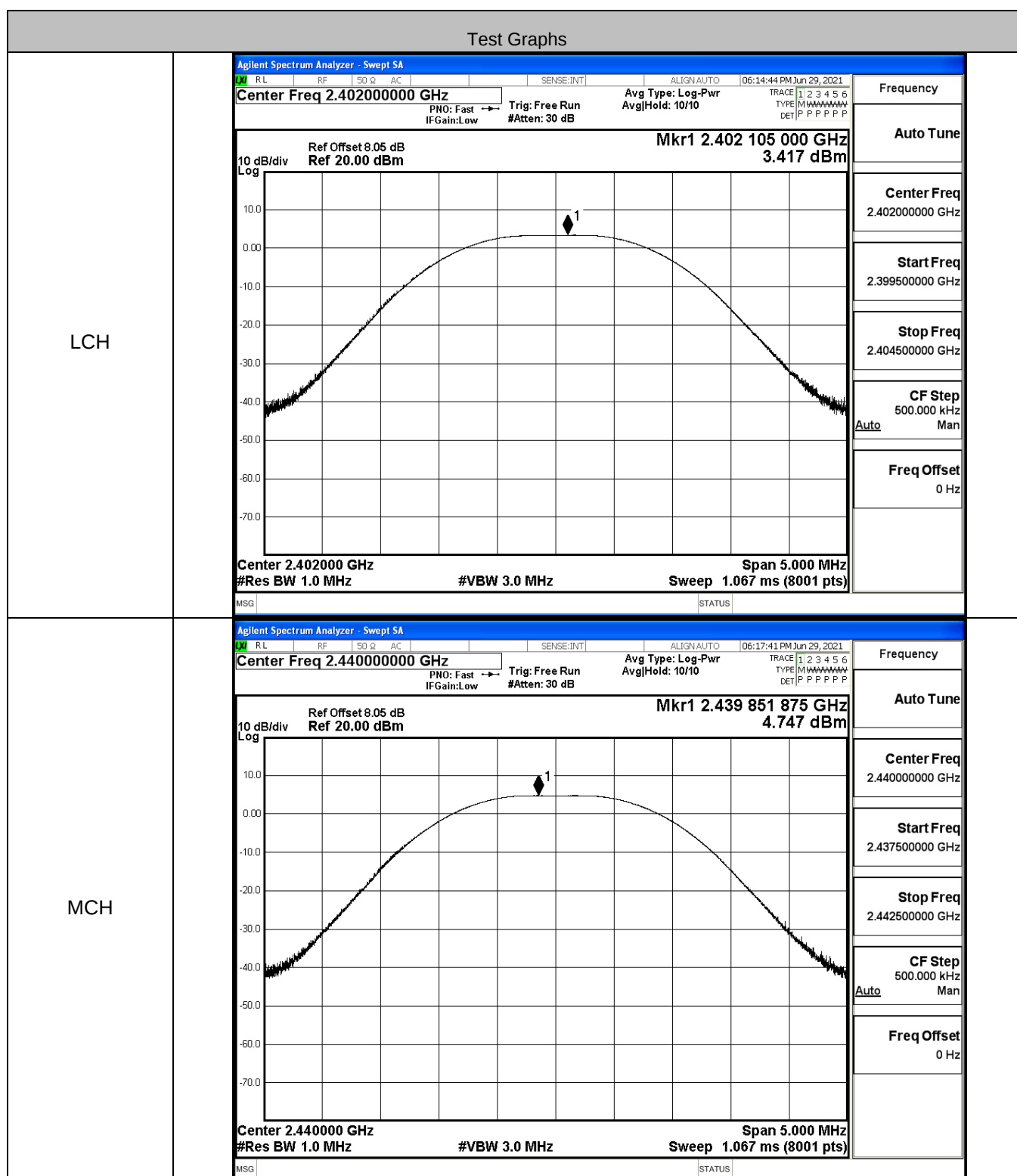
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

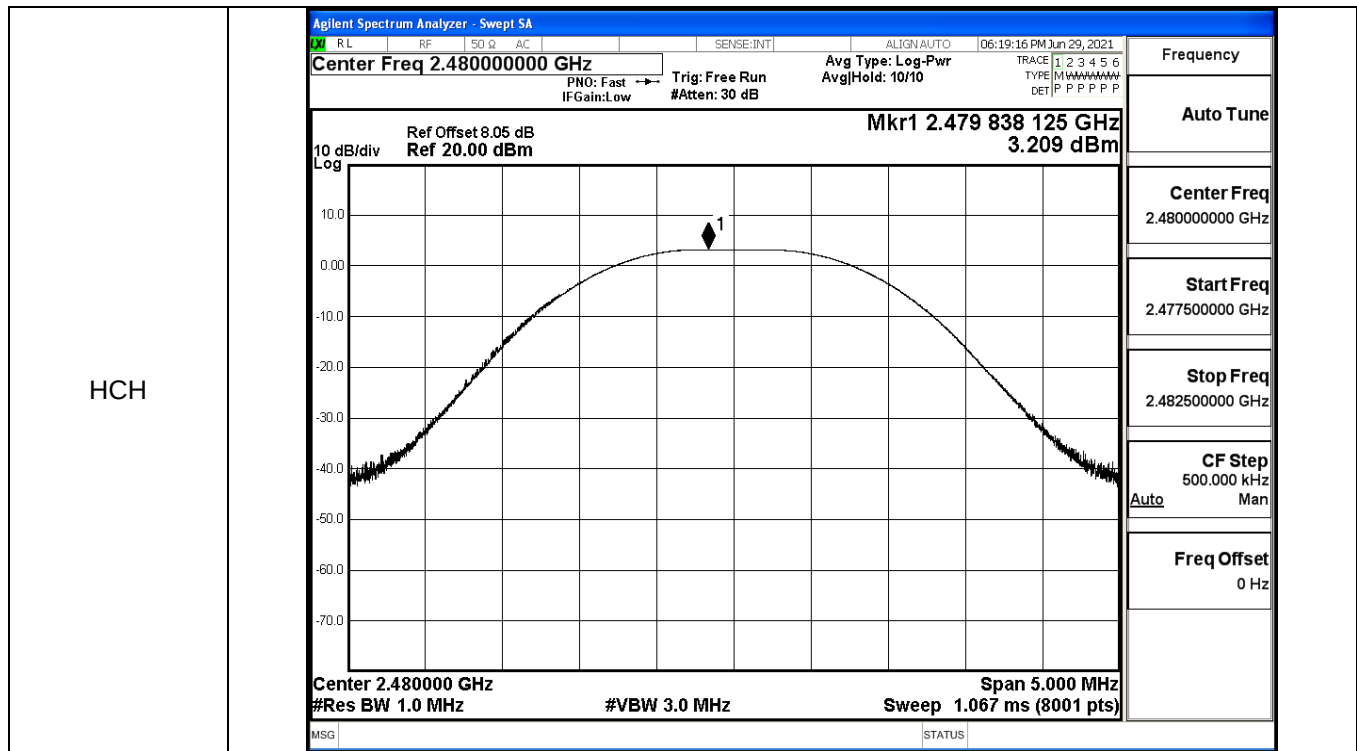




B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.417	30	PASS
BT LE	MCH	4.747	30	PASS
BT LE	HCH	3.209	30	PASS

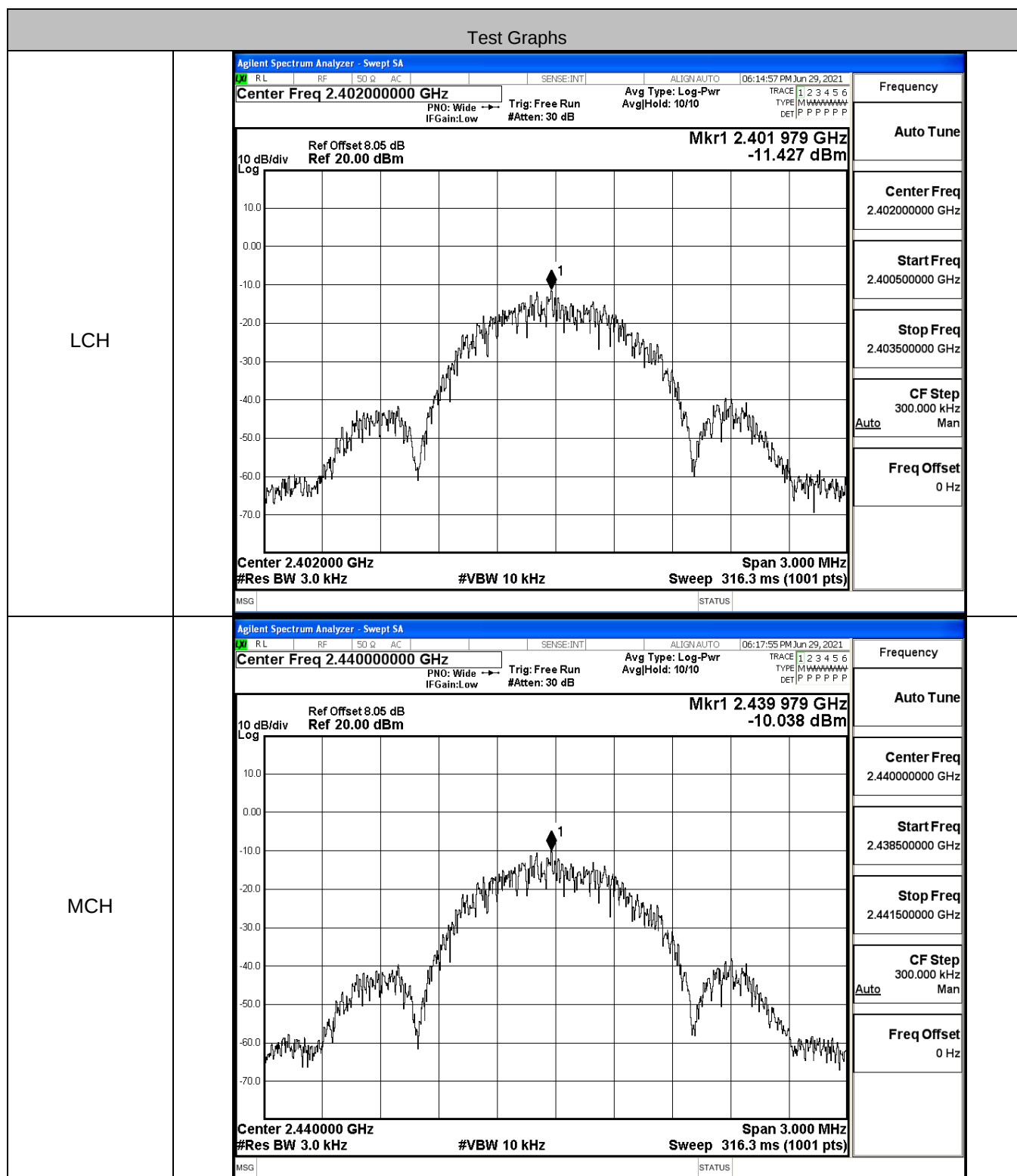


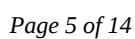




B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.427	8	PASS
BT LE	MCH	-10.038	8	PASS
BT LE	HCH	-11.879	8	PASS

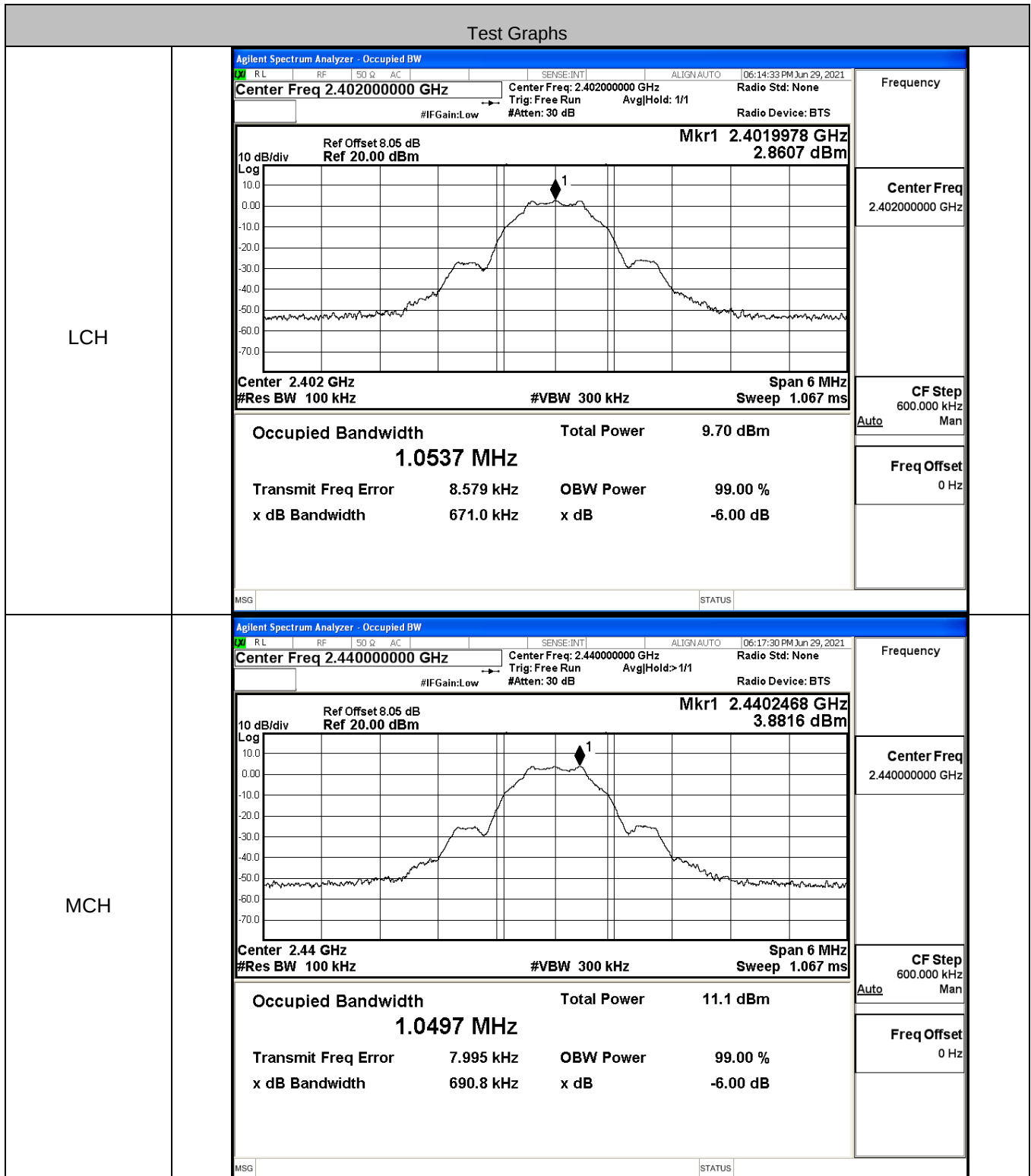


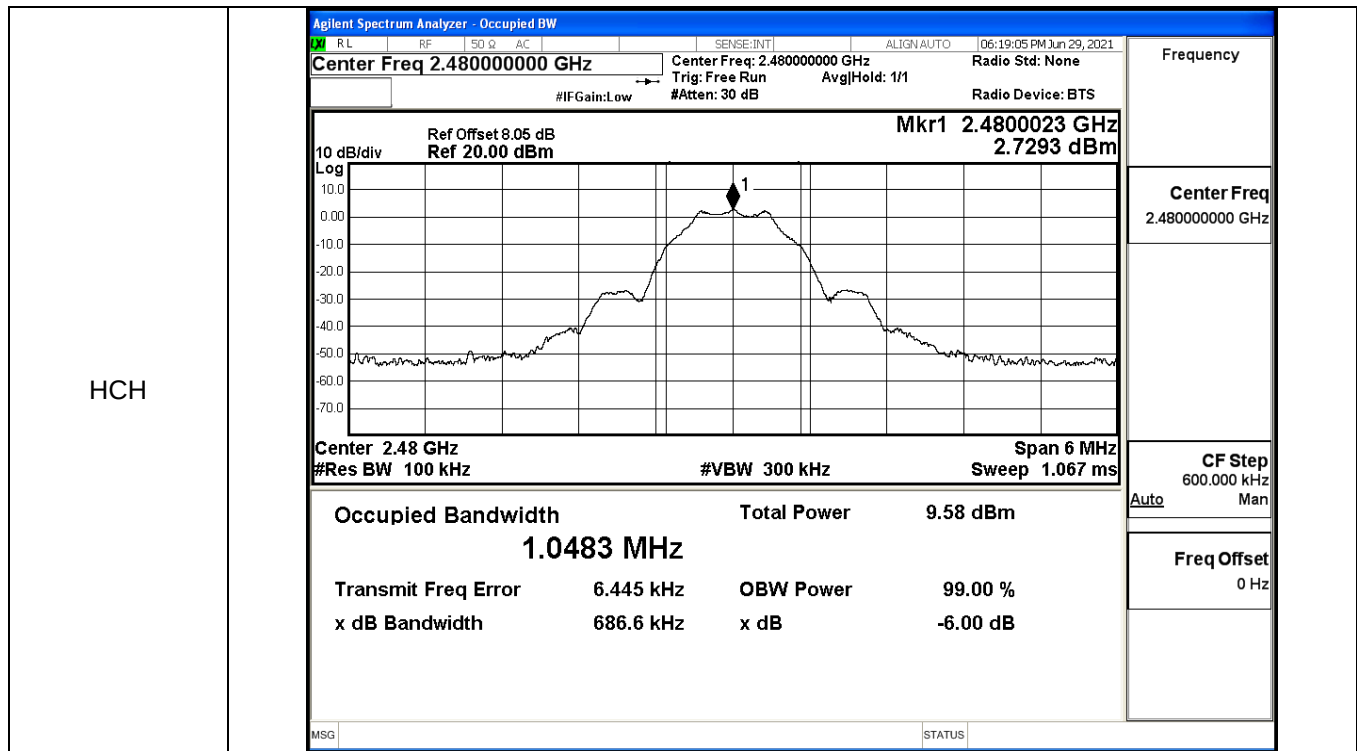




B.4 6dB Bandwidth

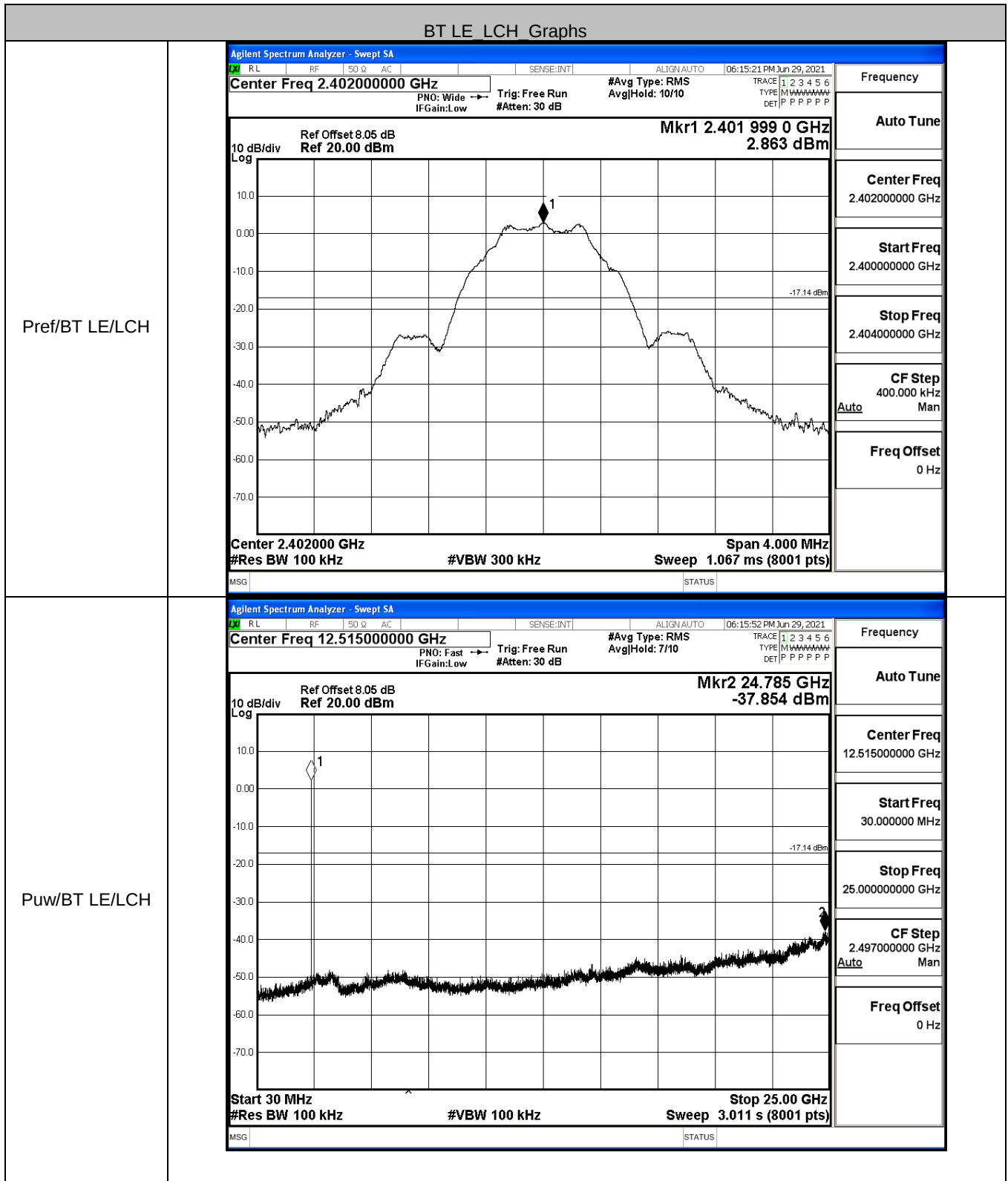
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6710	≥ 0.5	PASS
BT LE	MCH	0.6908	≥ 0.5	PASS
BT LE	HCH	0.6866	≥ 0.5	PASS





**B.5 RF Conducted Spurious Emissions**

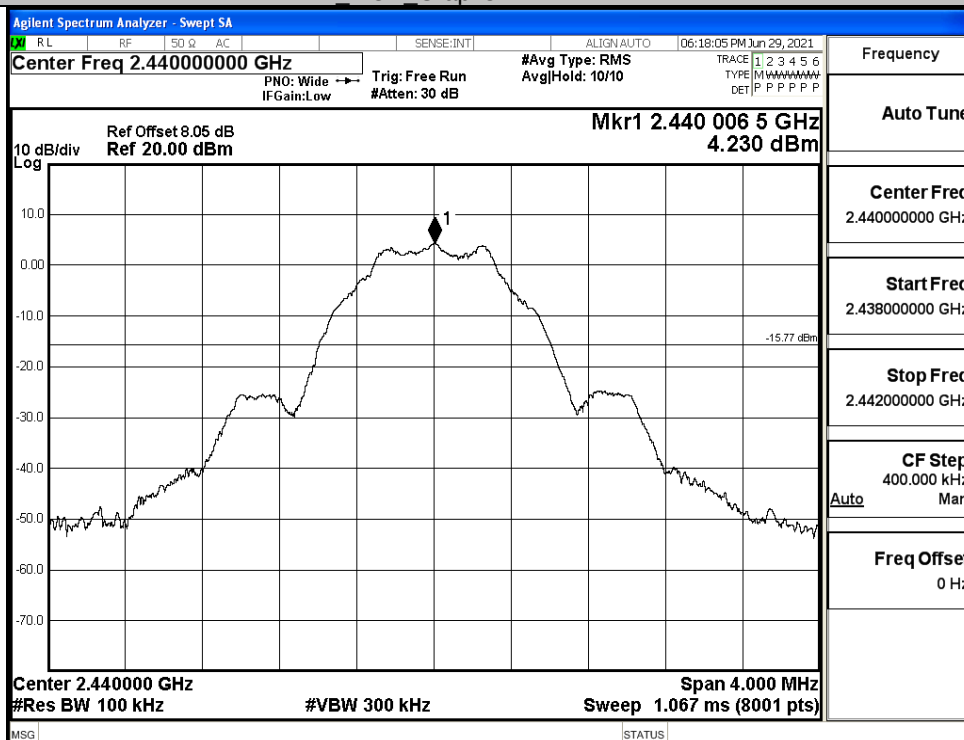
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.863	-37.854	-17.137	PASS
BT LE	MCH	4.23	-37.848	-15.770	PASS
BT LE	HCH	2.715	-37.816	-17.285	PASS



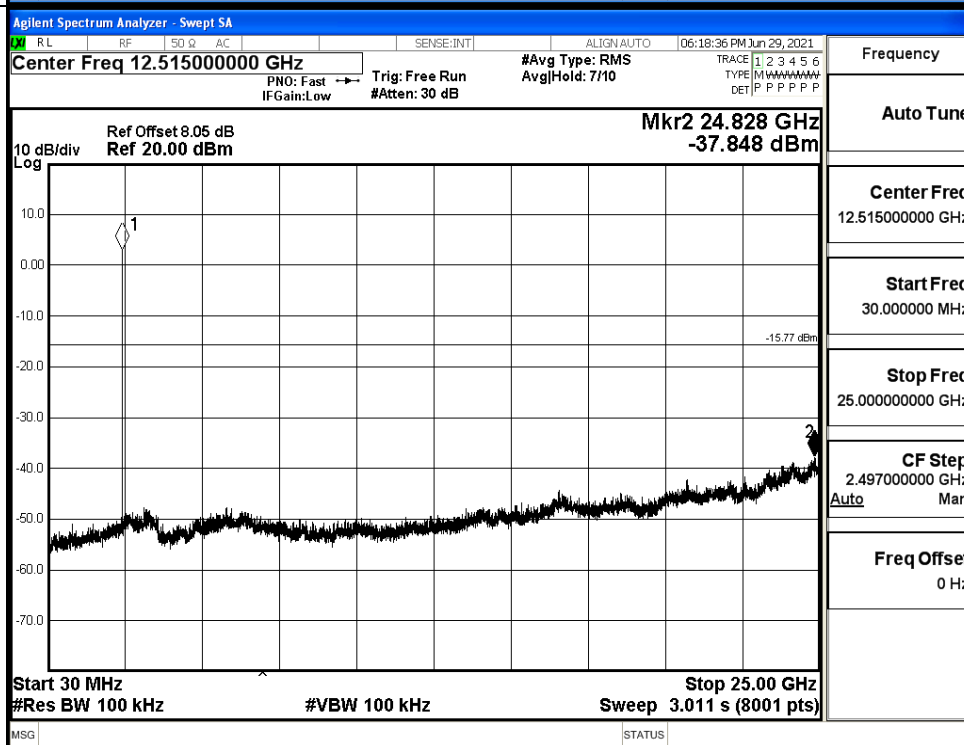


BT LE MCH Graphs

Pref/BT LE/MCH



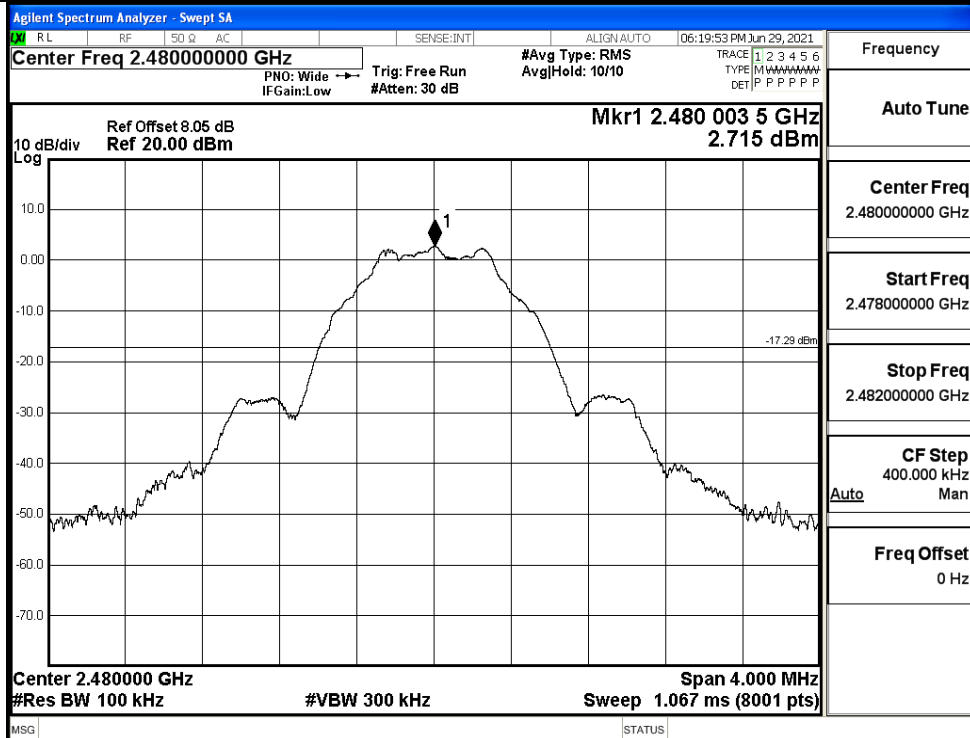
Puw/BT LE/MCH



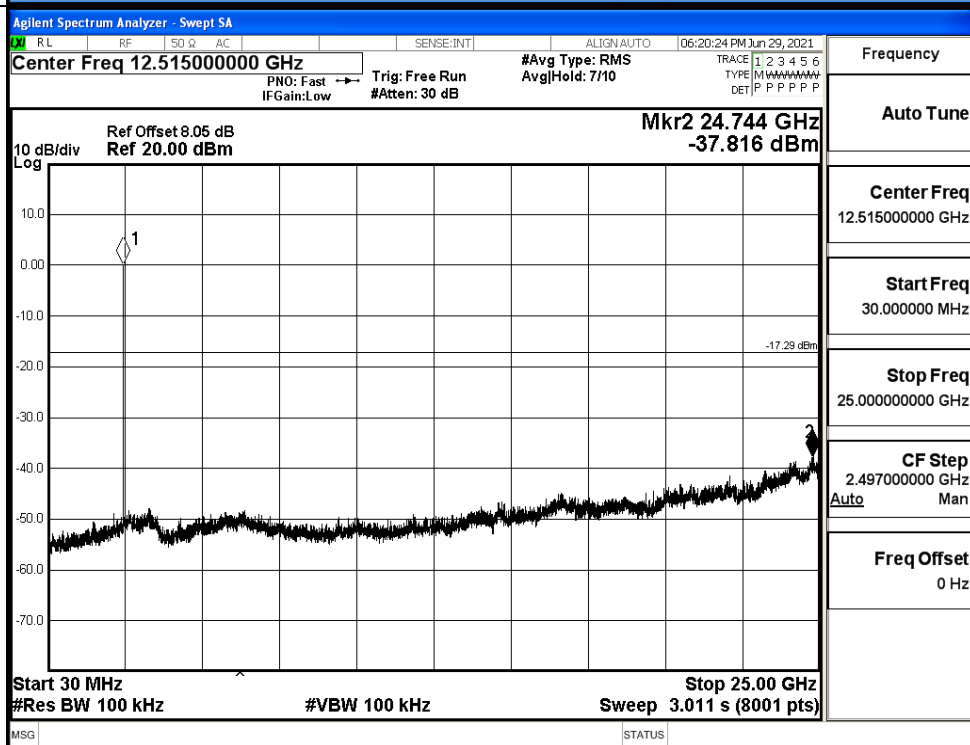


BT LE HCH Graphs

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	2.533	-49.280	-17.47	PASS
BT LE	HCH	2.842	-48.406	-17.16	PASS

Test Graphs																																																																																																													
LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 06:15:10 PM Jun 29, 2021 Center Freq 2.357000000 GHz PN0: Fast IFGain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W W DET P P P P P P P Ref Offset 8.05 dB Ref 20.00 dBm Mkr4 2.355 602 GHz -49.280 dBm 10 dB/div Log Start 2.31000 GHz Stop 2.40400 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.067 ms (8001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MSG STATUS Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz CF Step 9.400000 MHz Auto Freq Offset 0 Hz	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1									2									3									4									5									6									7									8									9									10									11								
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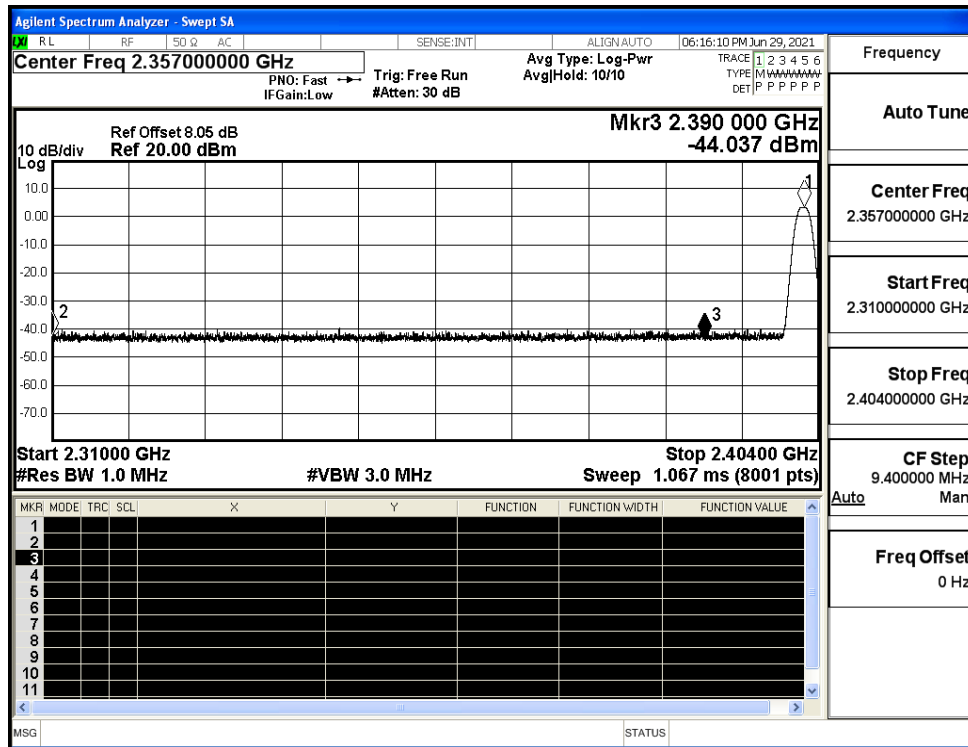


B.7 Restrict-band band-edge measurements

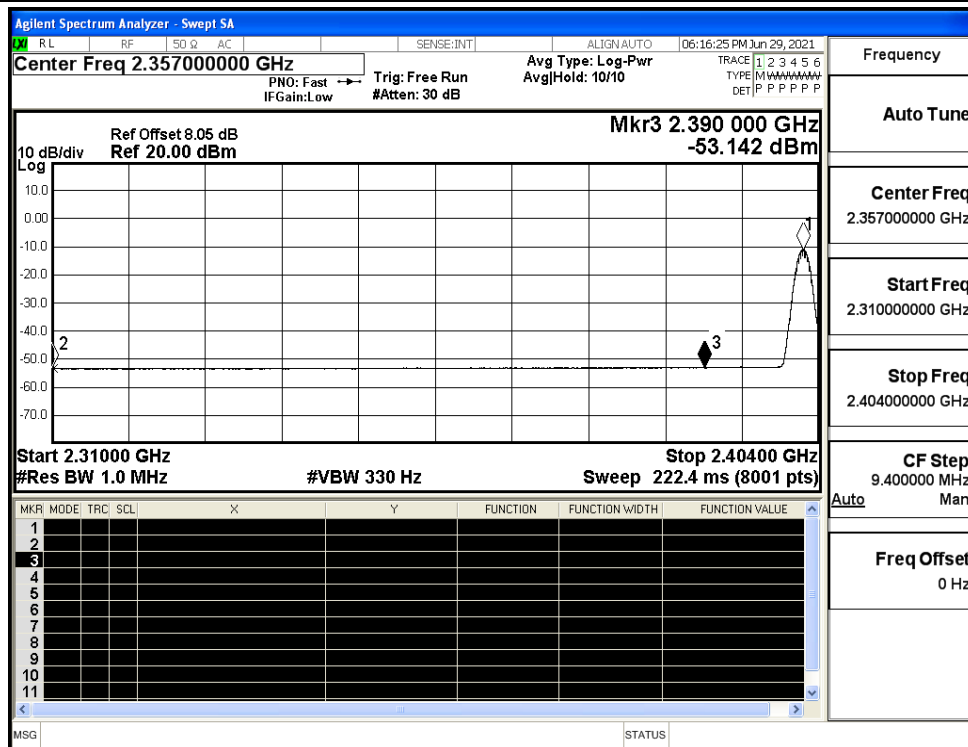
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-42.79	2.0	0	54.44	PEAK	74	PASS
		Ant1	2310.0	-53.47	2.0	0	43.76	AV	54	PASS
		Ant1	2390.0	-44.04	2.0	0	53.19	PEAK	74	PASS
		Ant1	2390.0	-53.14	2.0	0	44.09	AV	54	PASS
	2480	Ant1	2483.5	-42.70	2.0	0	54.53	PEAK	74	PASS
		Ant1	2483.5	-52.48	2.0	0	44.75	AV	54	PASS
		Ant1	2500.0	-41.54	2.0	0	55.69	PEAK	74	PASS
		Ant1	2500.0	-52.30	2.0	0	44.93	AV	54	PASS



Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK

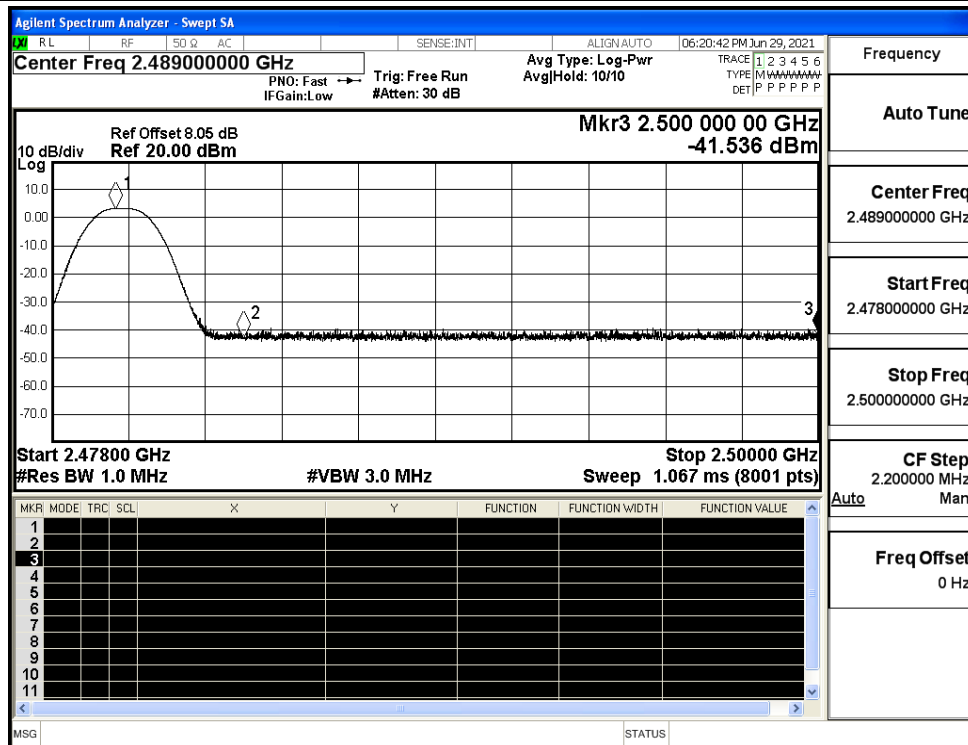


Restrict-band band-edge measurements_BT LE_2402_Ant1_AV





Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

