



Appendix B

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

Product Name: 6.5-inch 4G Smart Phone

Trade Mark: LOGIC, iSWAG, UNONU

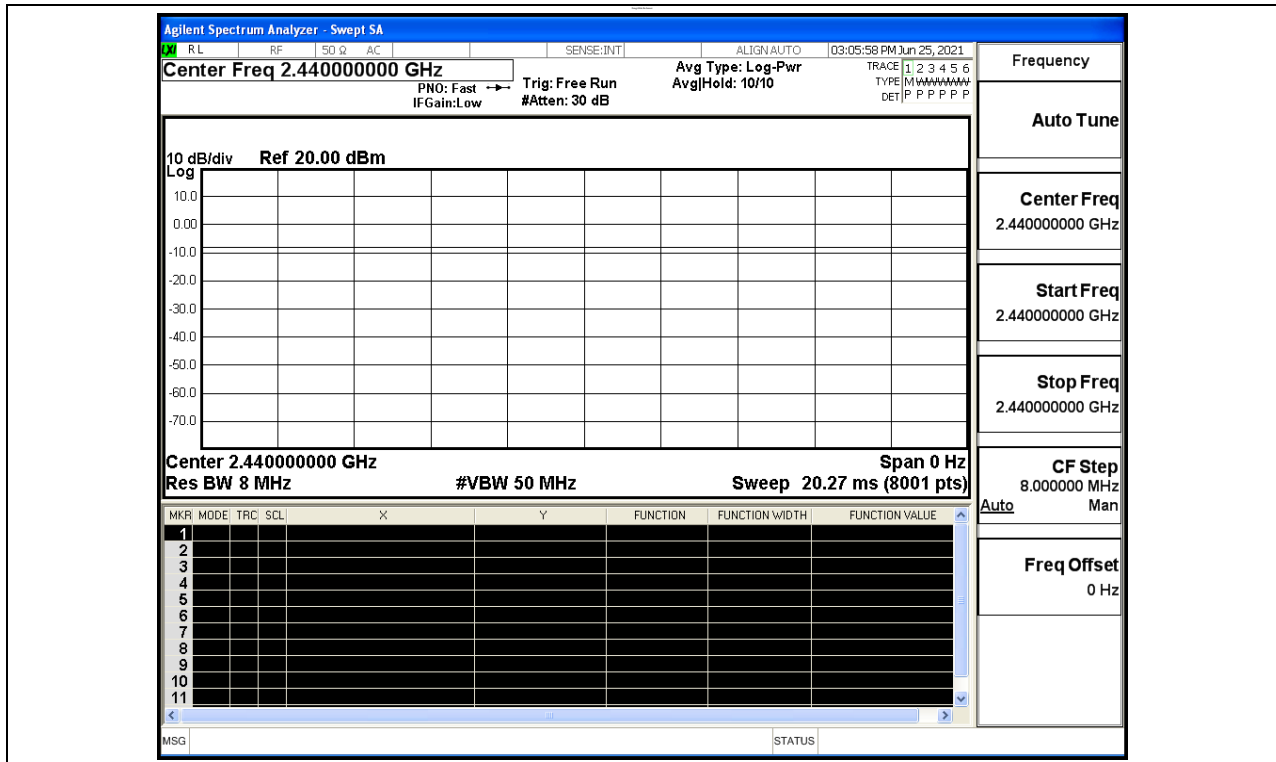
Test Model: L65

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

B.1 Duty Cycle

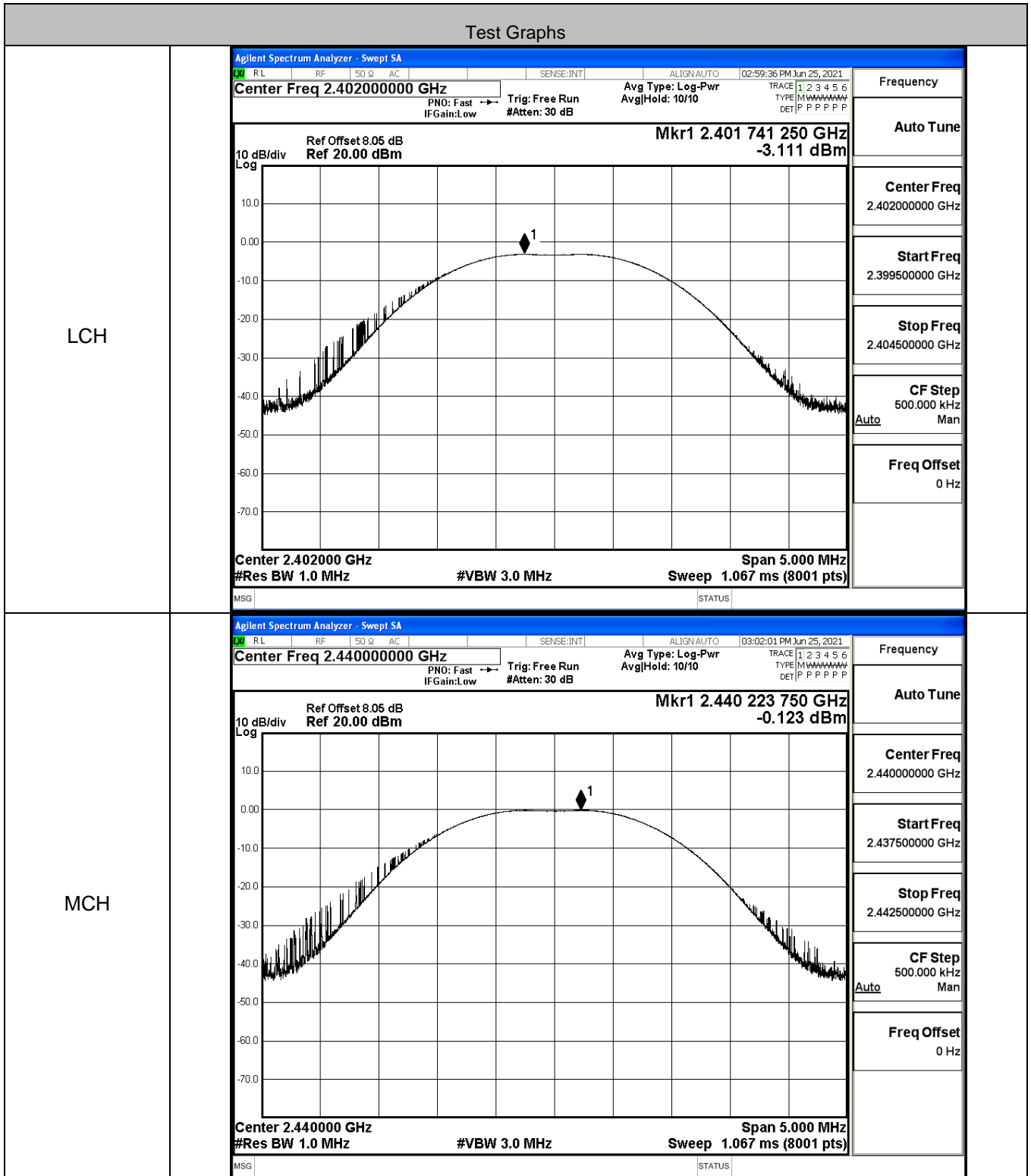
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

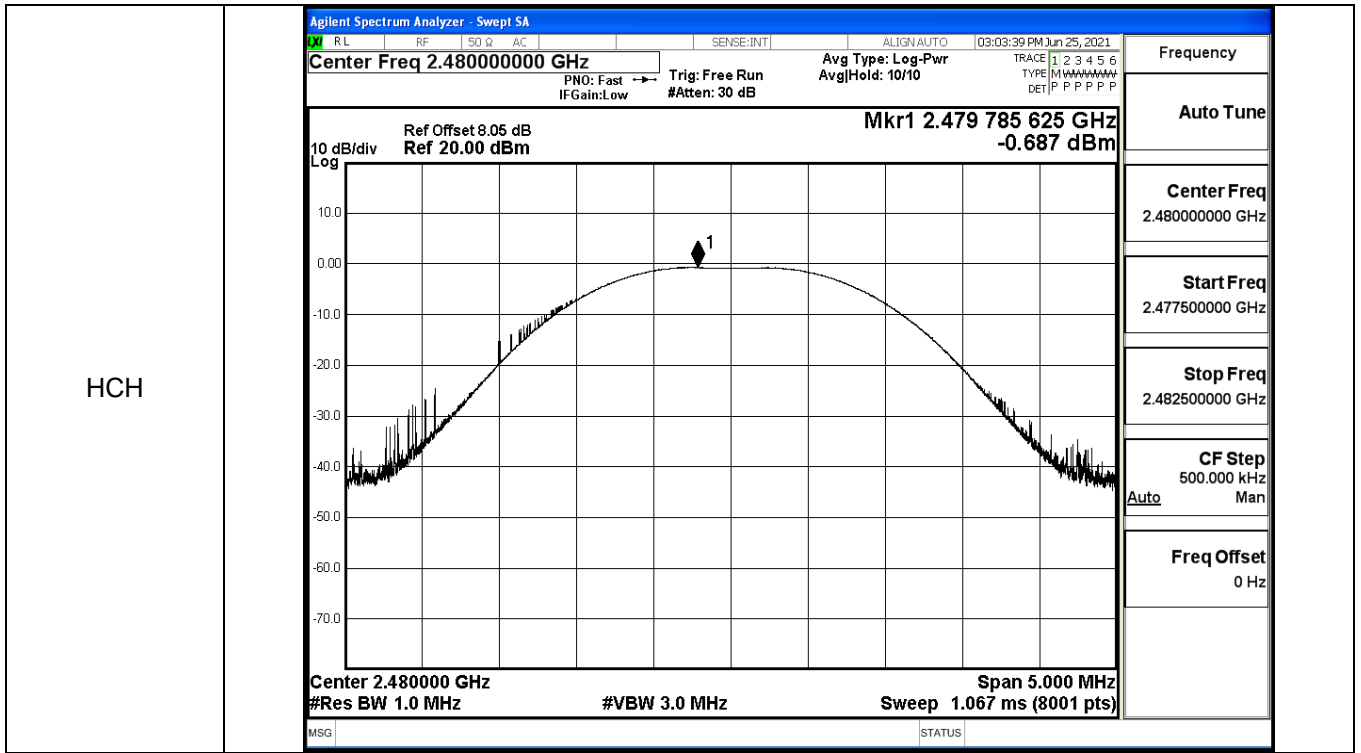




B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.111	30	PASS
BT LE	MCH	-0.123	30	PASS
BT LE	HCH	-0.687	30	PASS

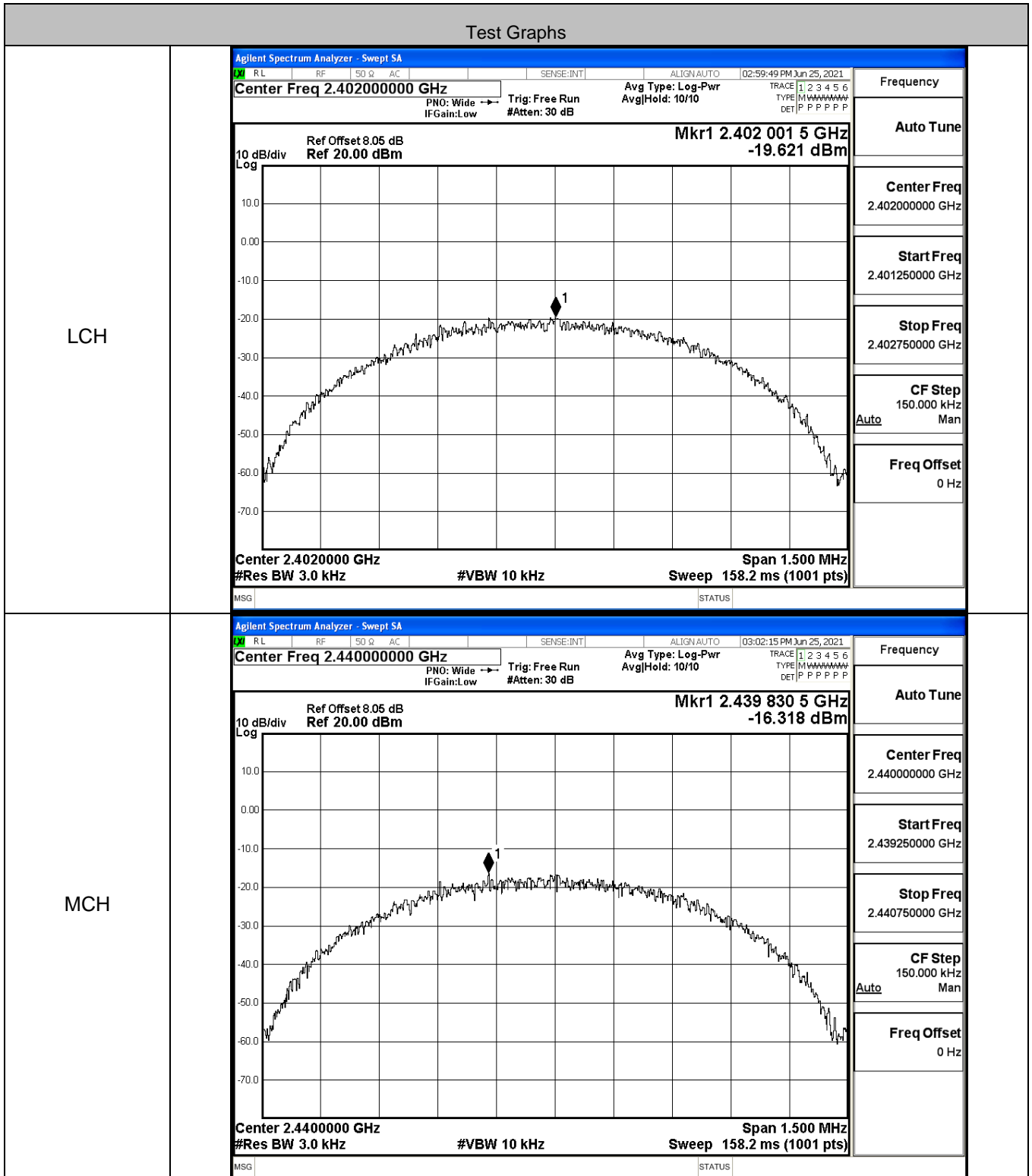


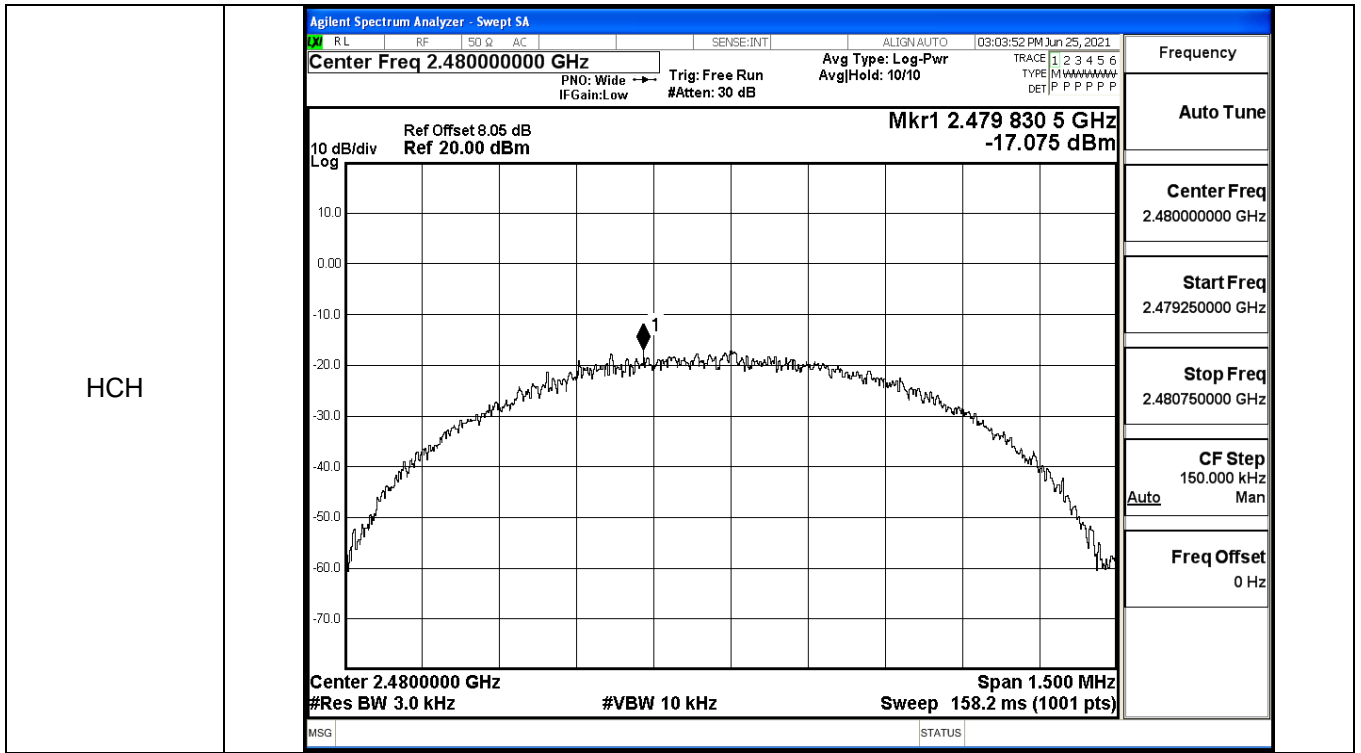




B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-19.621	8	PASS
BT LE	MCH	-16.318	8	PASS
BT LE	HCH	-17.075	8	PASS

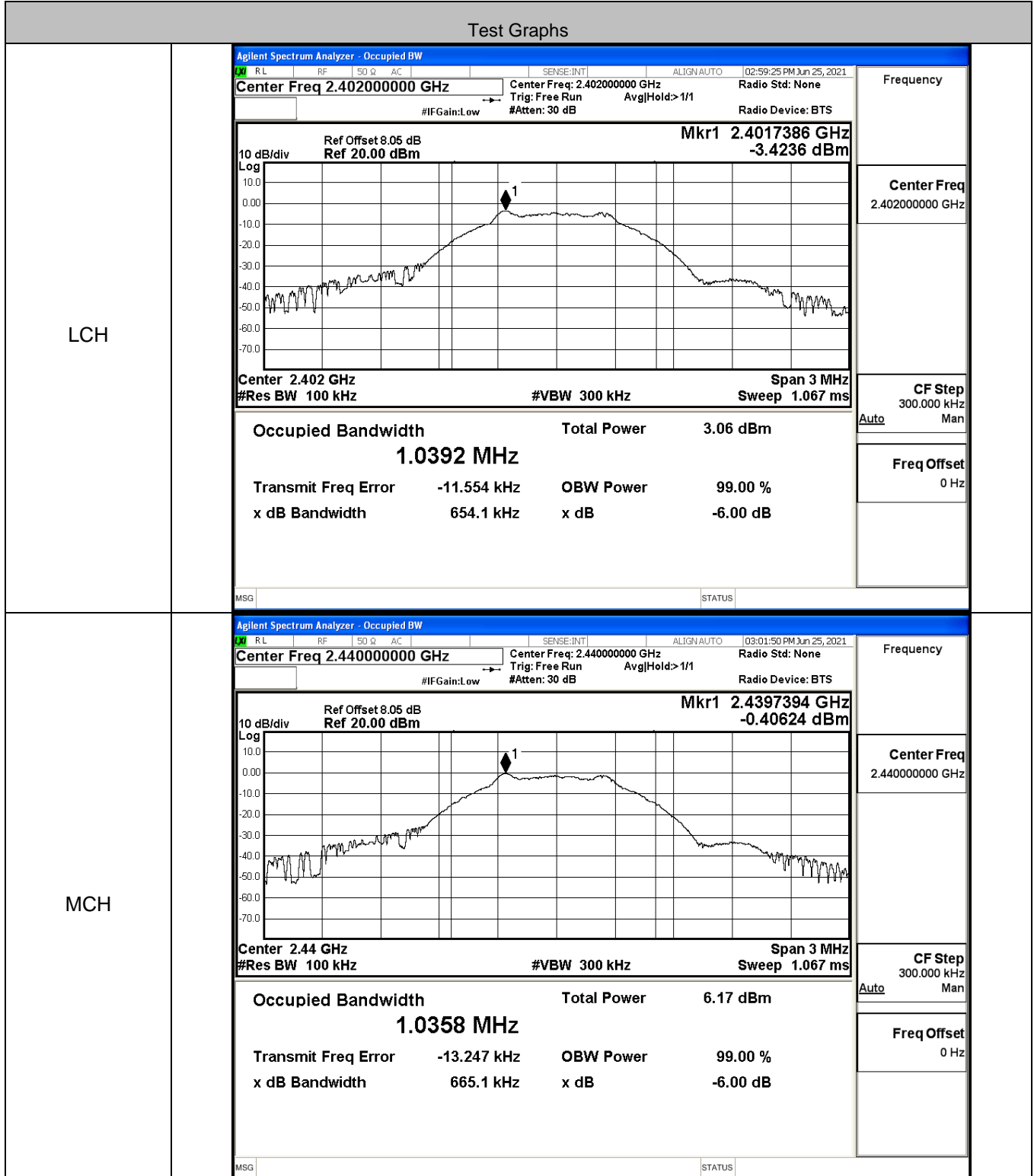


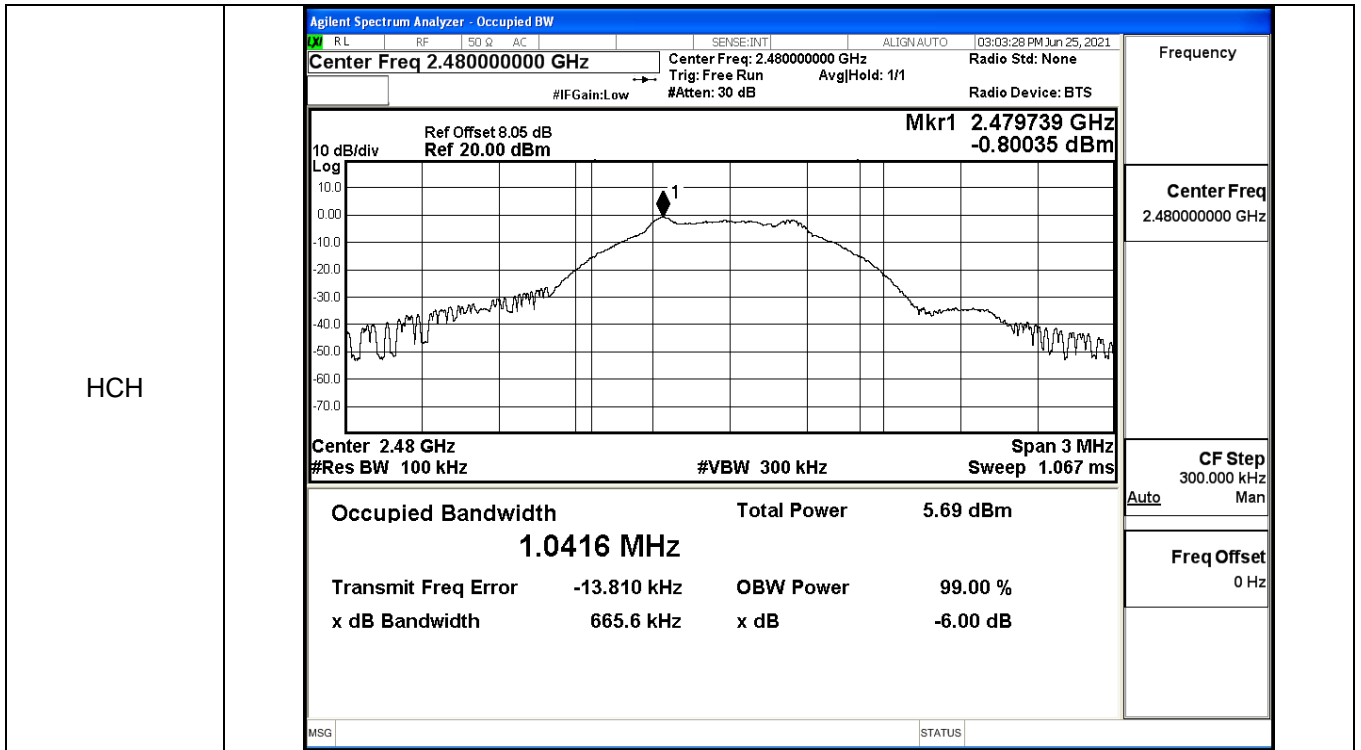




B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6541	≥0.5	PASS
BT LE	MCH	0.6651	≥0.5	PASS
BT LE	HCH	0.6656	≥0.5	PASS

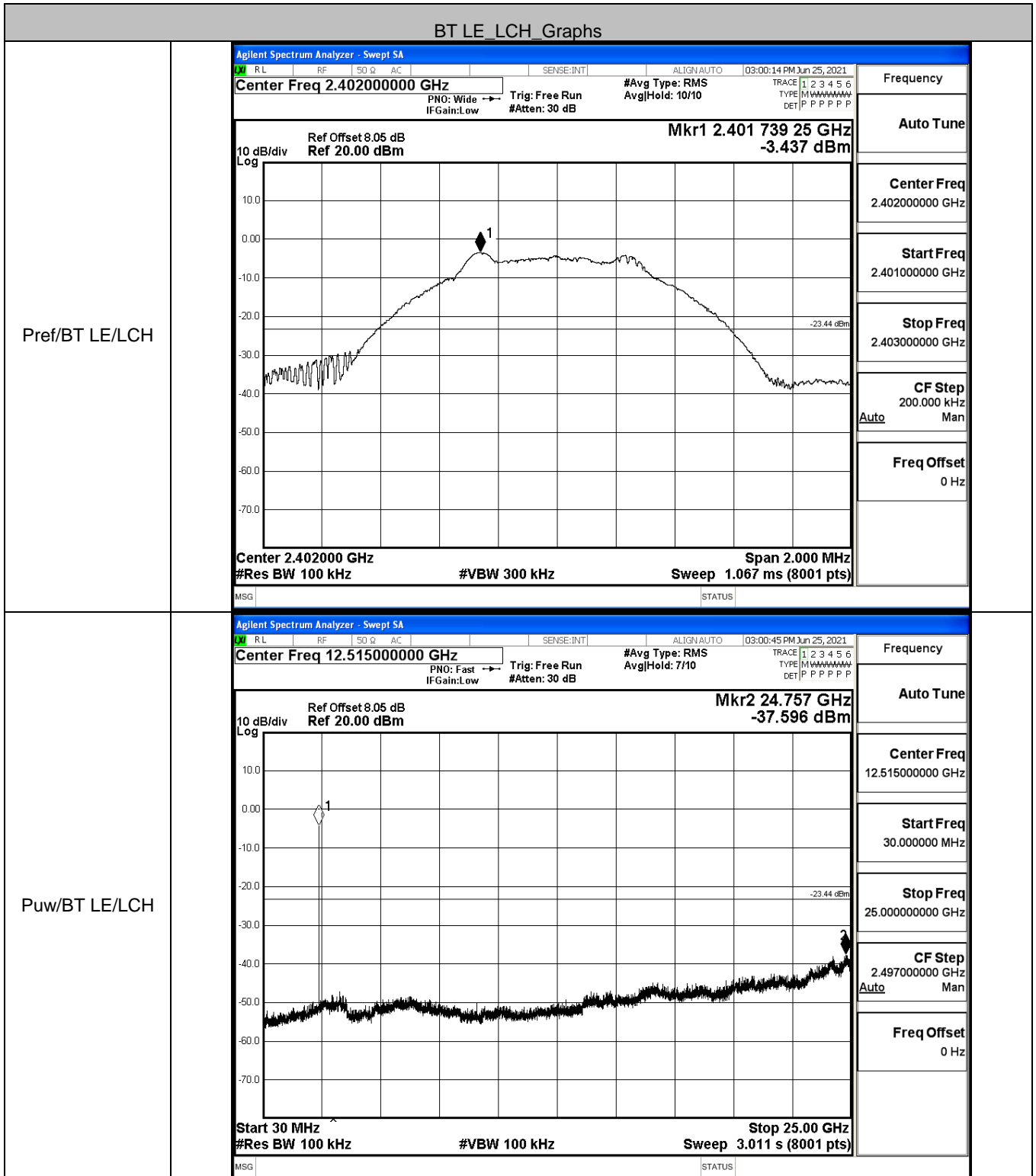






B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.437	-37.596	-23.437	PASS
BT LE	MCH	-0.297	-38.105	-20.297	PASS
BT LE	HCH	-0.902	-37.763	-20.902	PASS



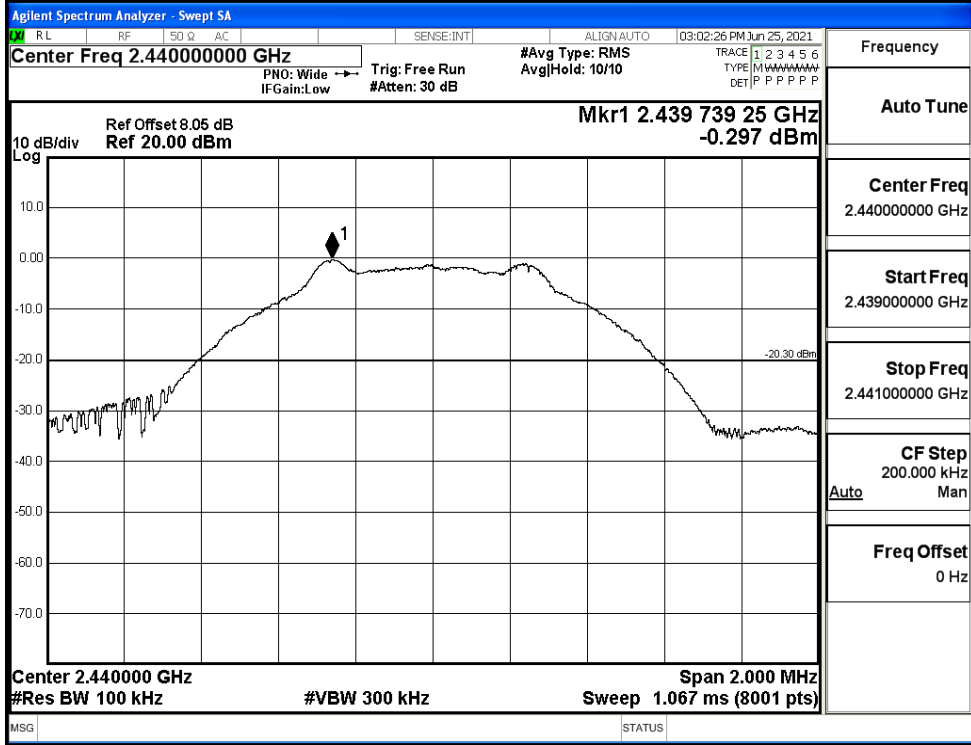


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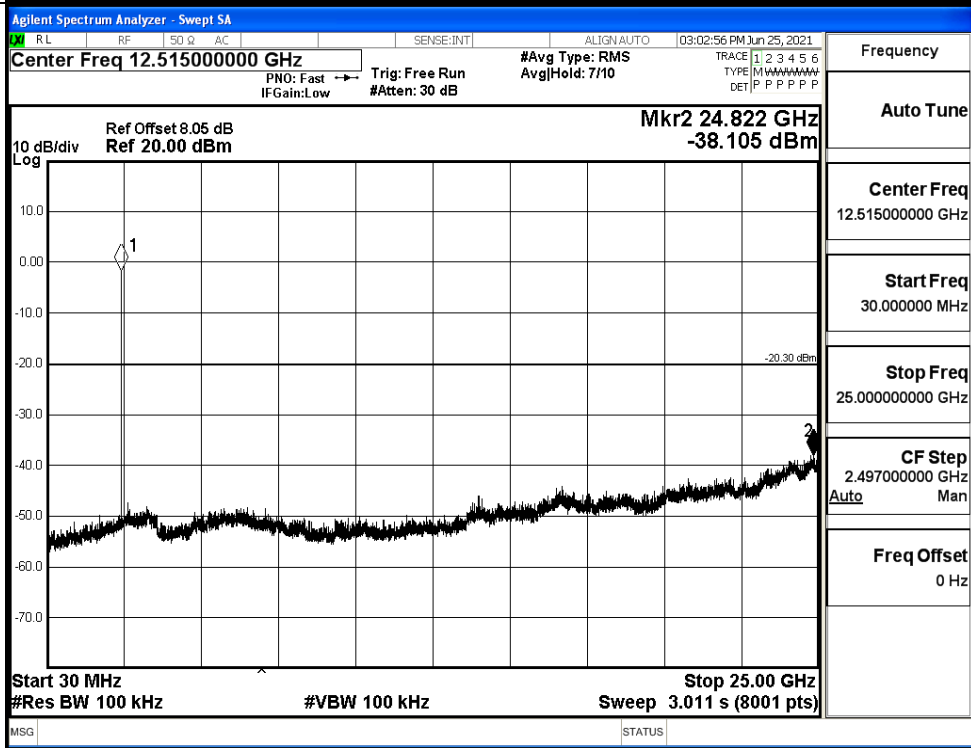


BT LE_MCH_Graphs

Pref/BT LE/MCH



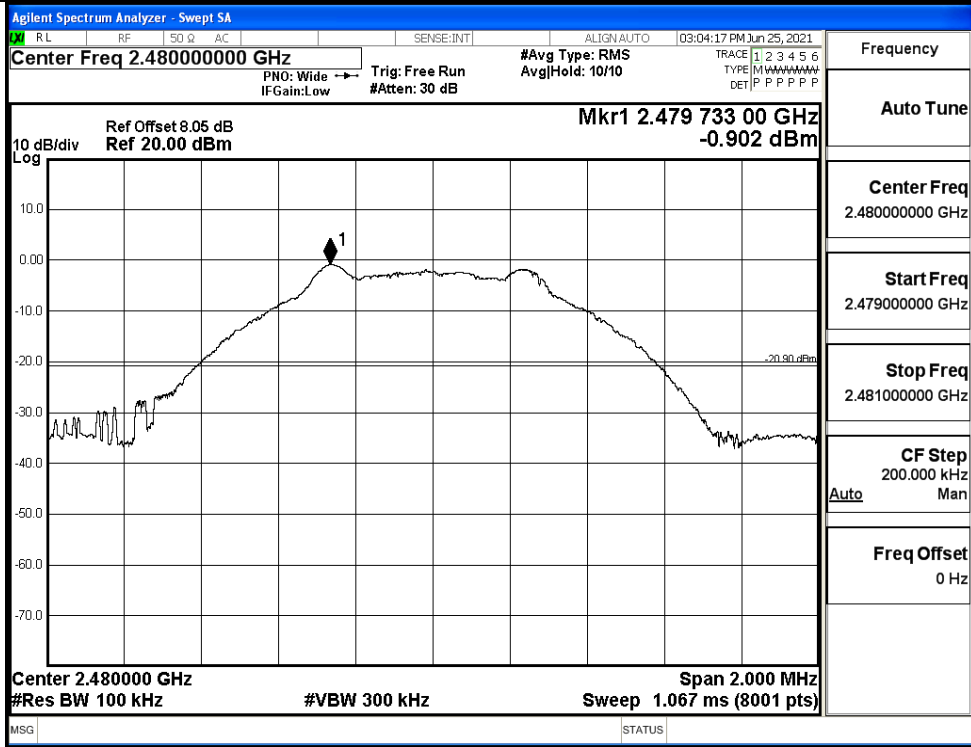
Puw/BT LE/MCH



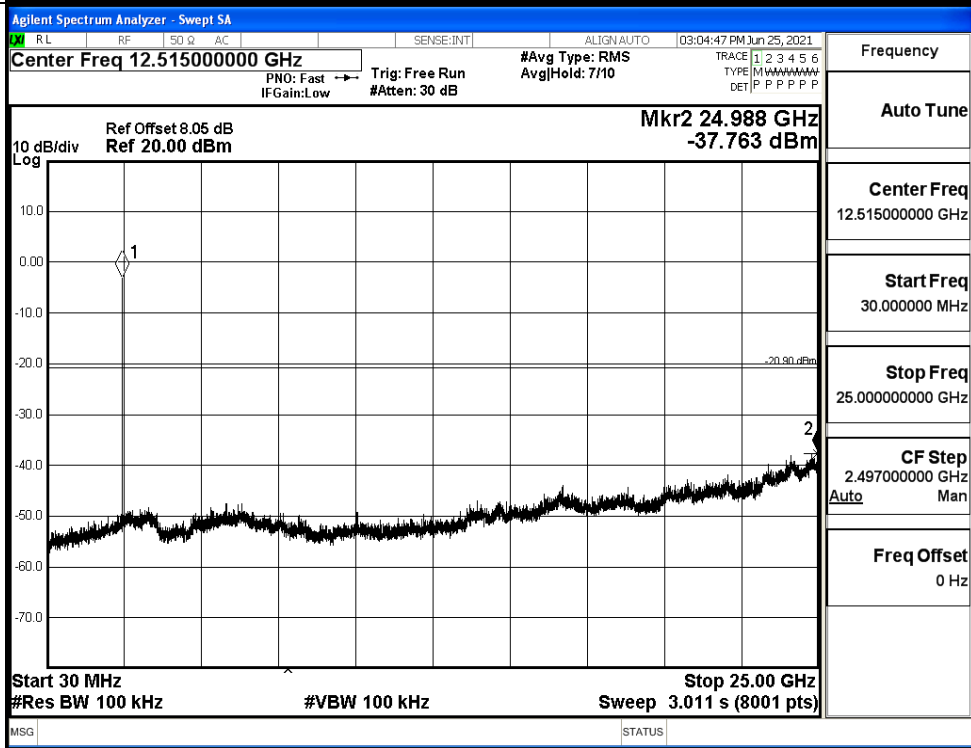


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH





B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.355	-49.949	-23.36	PASS
BT LE	HCH	-0.877	-49.425	-20.88	PASS

Test Graphs

LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.35700000 GHz Ref Offset 8.05 dB, Ref 20.00 dBm Mkr4 2.363 827 GHz -49.949 dBm Start 2.31000 GHz, Stop 2.40400 GHz #Res BW 100 kHz, #VBW 300 kHz, Sweep 9.067 ms (8001 pts)</p> <table border="1" style="font-size: small;"> <thead> <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> </thead> <tbody> <tr><td>1</td><td>N</td><td></td><td>f</td><td>2.401 744 GHz</td><td>-3.355 dBm</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>N</td><td></td><td>f</td><td>2.400 000 GHz</td><td>-53.154 dBm</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>N</td><td></td><td>f</td><td>2.390 000 GHz</td><td>-53.304 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td></td><td>f</td><td>2.363 827 GHz</td><td>-49.949 dBm</td><td></td><td></td><td></td></tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N		f	2.401 744 GHz	-3.355 dBm				2	N		f	2.400 000 GHz	-53.154 dBm				3	N		f	2.390 000 GHz	-53.304 dBm				4	N		f	2.363 827 GHz	-49.949 dBm				Frequency Auto Tune Center Freq 2.35700000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz CF Step 9.400000 MHz Freq Offset 0 Hz
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HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.48900000 GHz Ref Offset 8.05 dB, Ref 20.00 dBm Mkr4 2.488 788 25 GHz -49.425 dBm Start 2.47800 GHz, Stop 2.50000 GHz #Res BW 100 kHz, #VBW 300 kHz, Sweep 2.133 ms (8001 pts)</p> <table border="1" style="font-size: small;"> <thead> <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> </thead> <tbody> <tr><td>1</td><td>N</td><td></td><td>f</td><td>2.479 743 50 GHz</td><td>-0.877 dBm</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>N</td><td></td><td>f</td><td>2.483 500 00 GHz</td><td>-50.145 dBm</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>N</td><td></td><td>f</td><td>2.500 000 00 GHz</td><td>-52.246 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td></td><td>f</td><td>2.488 788 25 GHz</td><td>-49.425 dBm</td><td></td><td></td><td></td></tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N		f	2.479 743 50 GHz	-0.877 dBm				2	N		f	2.483 500 00 GHz	-50.145 dBm				3	N		f	2.500 000 00 GHz	-52.246 dBm				4	N		f	2.488 788 25 GHz	-49.425 dBm				Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.478000000 GHz Stop Freq 2.500000000 GHz CF Step 2.200000 MHz Freq Offset 0 Hz
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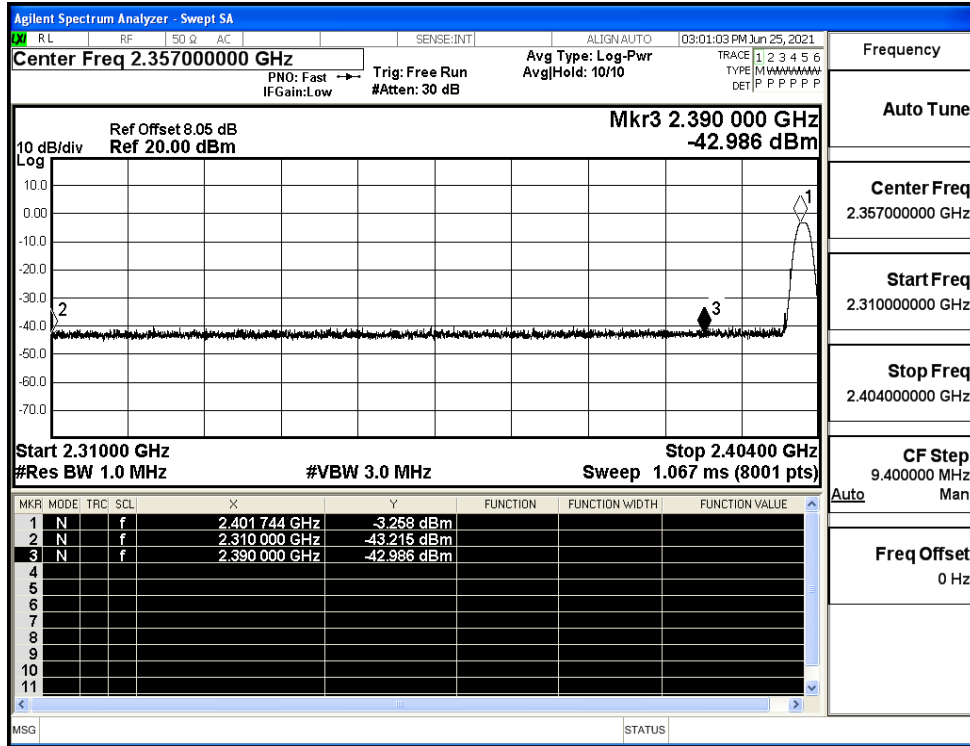


B.7 Restrict-band band-edge measurements

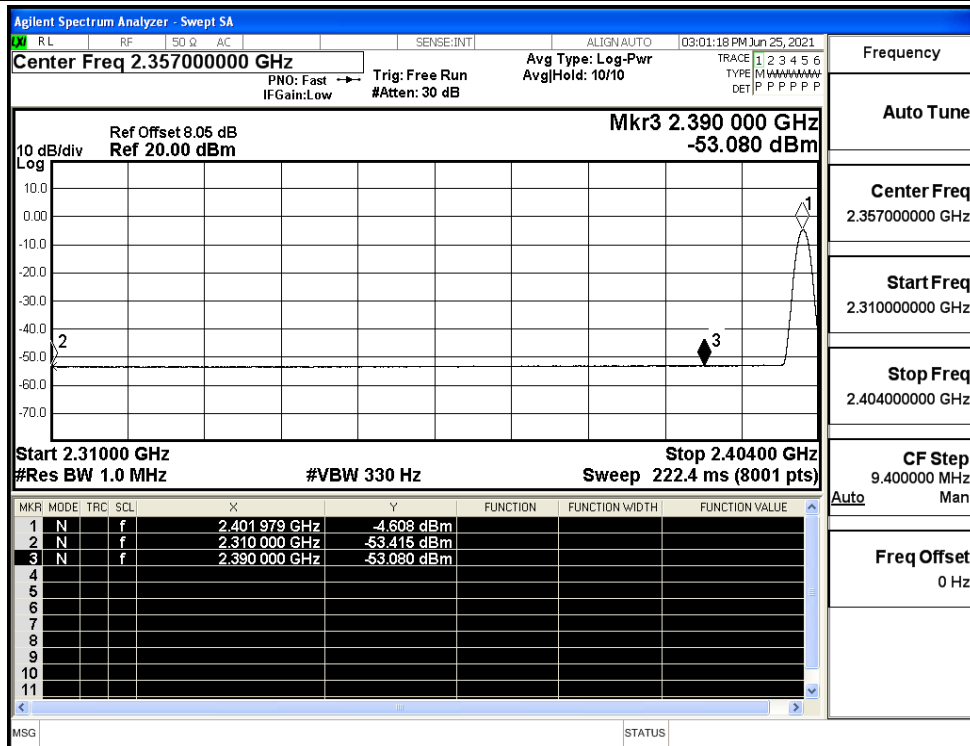
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-43.22	2.0	0	52.04	PEAK	74	PASS
		Ant1	2310.0	-53.42	2.0	0	41.84	AV	54	PASS
		Ant1	2390.0	-42.99	2.0	0	52.27	PEAK	74	PASS
		Ant1	2390.0	-53.08	2.0	0	42.18	AV	54	PASS
	2480	Ant1	2483.5	-42.83	2.0	0	52.43	PEAK	74	PASS
		Ant1	2483.5	-52.60	2.0	0	42.66	AV	54	PASS
		Ant1	2500.0	-42.84	2.0	0	52.42	PEAK	74	PASS
		Ant1	2500.0	-52.39	2.0	0	42.87	AV	54	PASS



Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK

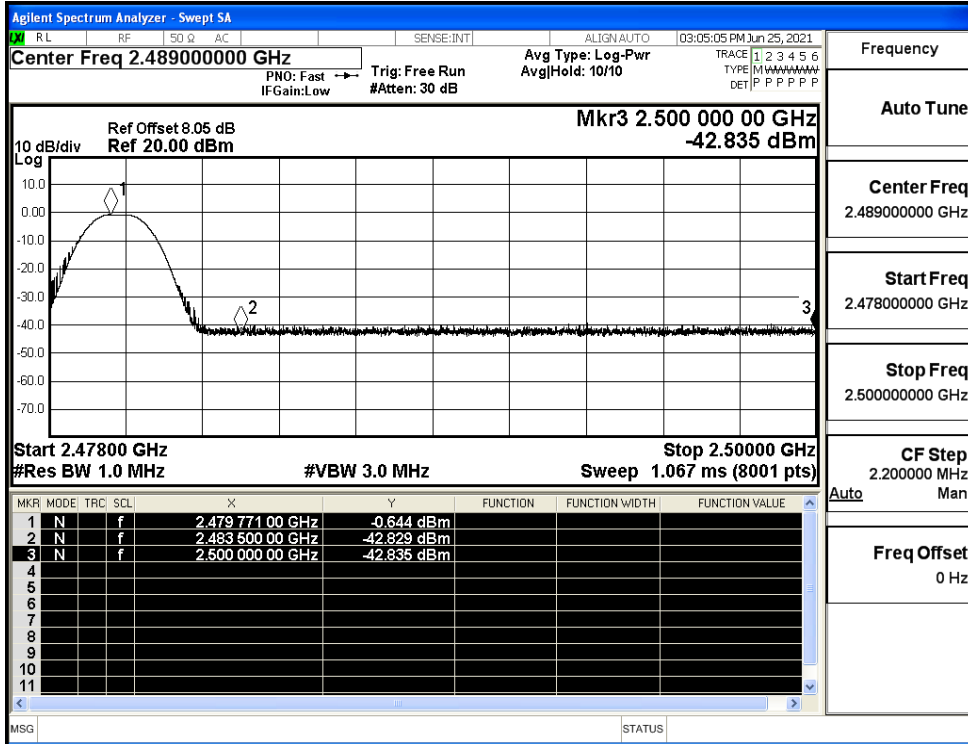


Restrict-band band-edge measurements_BT LE_2402_Ant1_AV





Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

