

Appendix B

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

Product Name: Tablet PC

Trade Mark: Bright Life

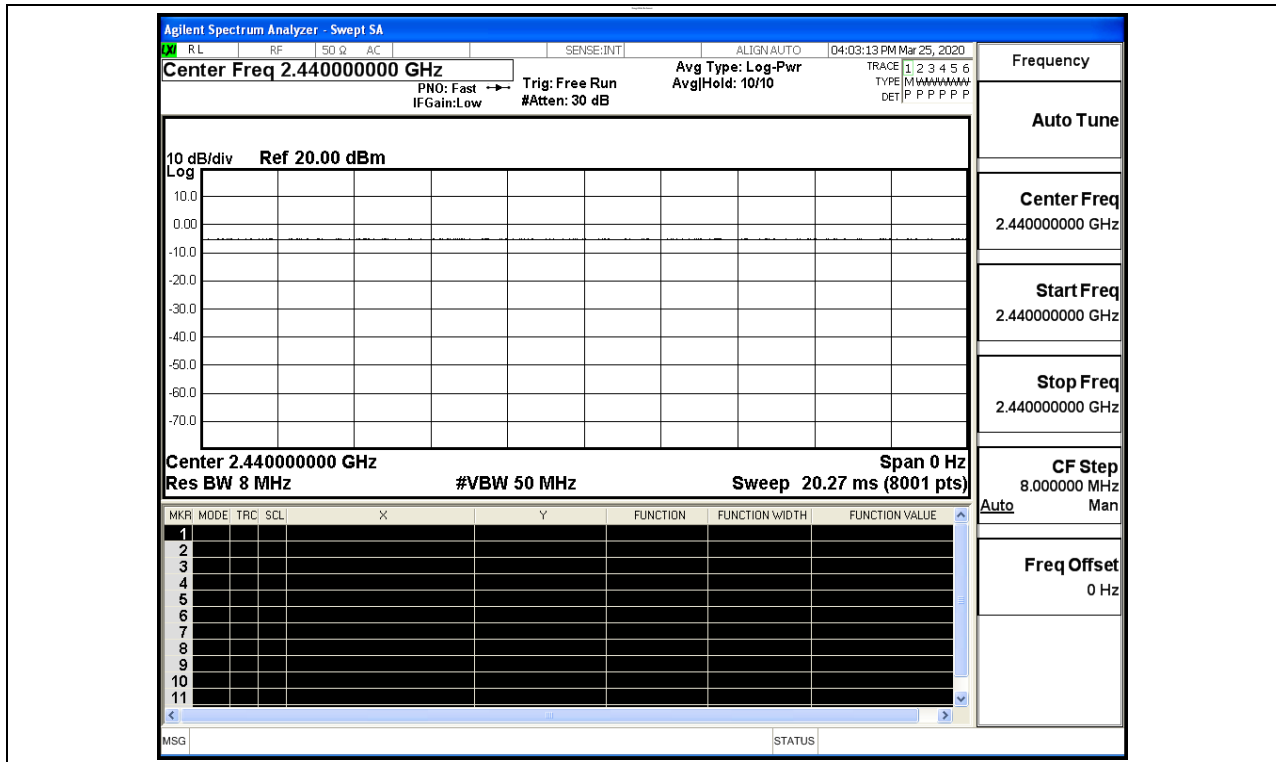
Test Model: TL11

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Tom.Liu

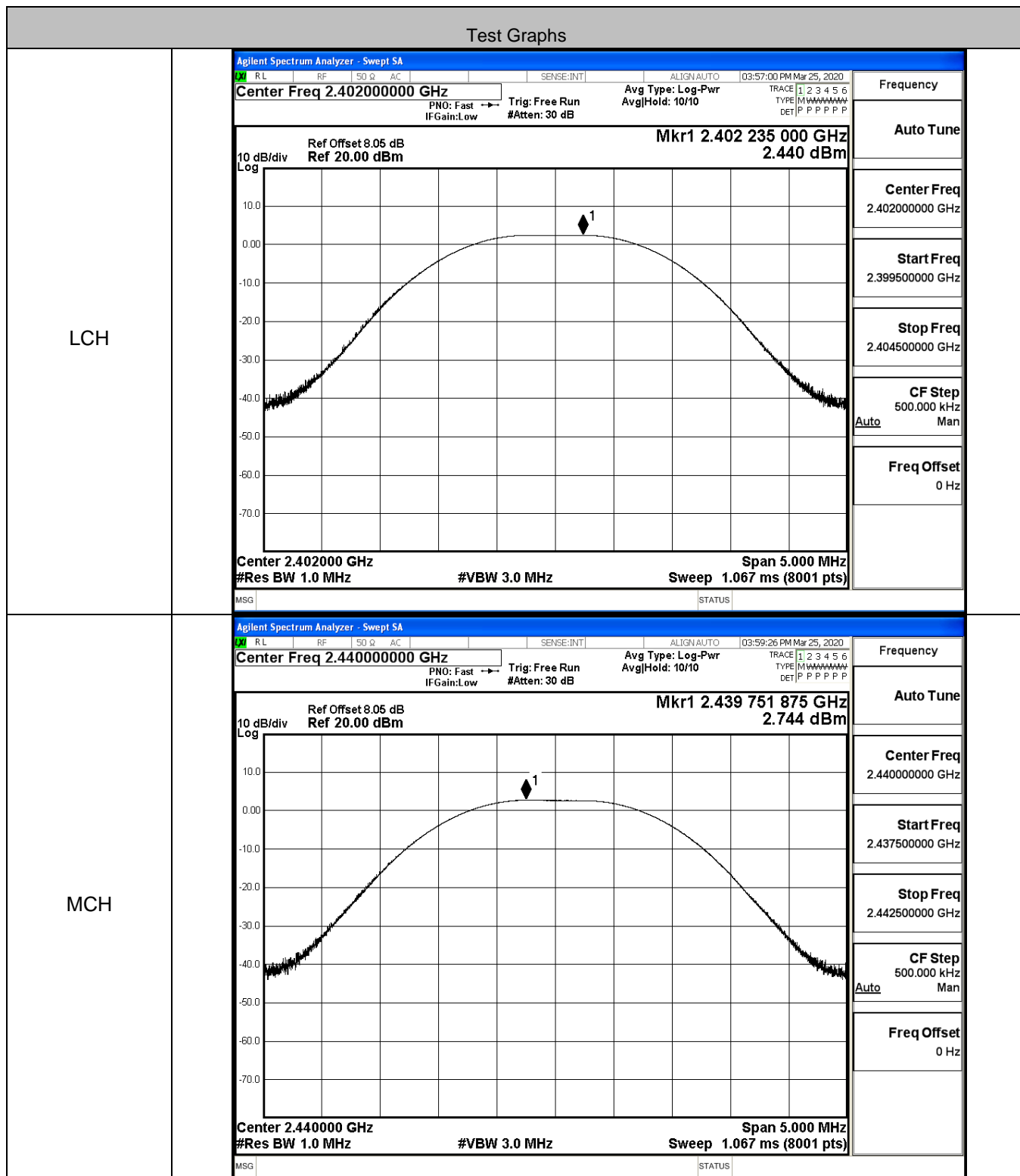
B.1 Duty Cycle

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



B.2 Maximum Conducted Peak Output Power

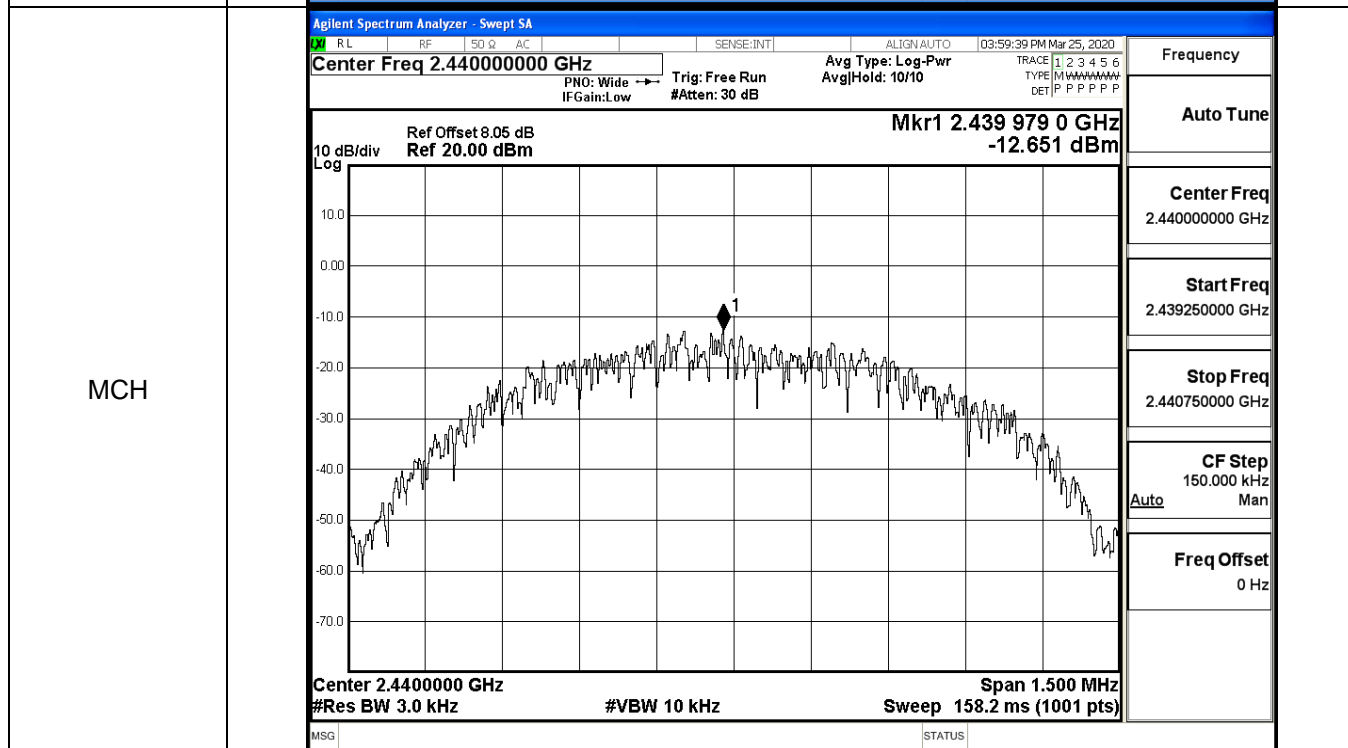
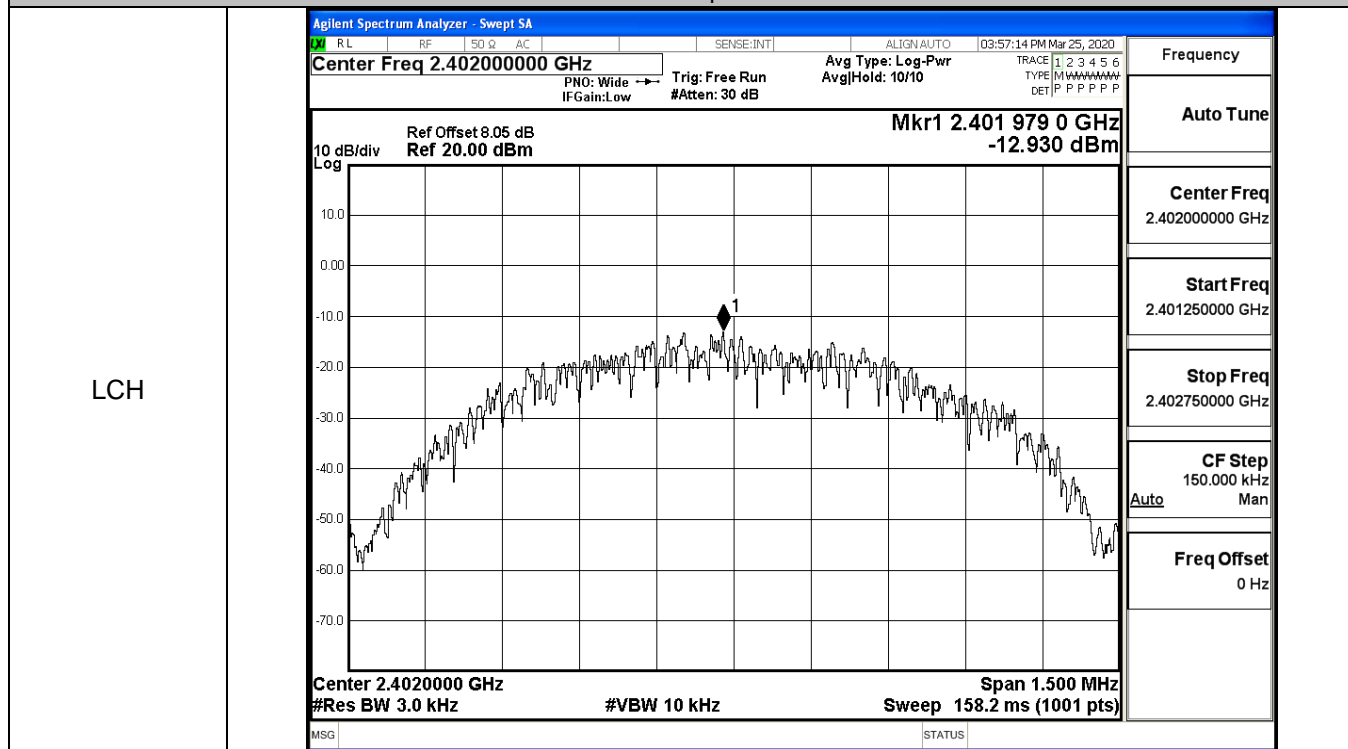
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.44	30	PASS
BT LE	MCH	2.744	30	PASS
BT LE	HCH	1.212	30	PASS



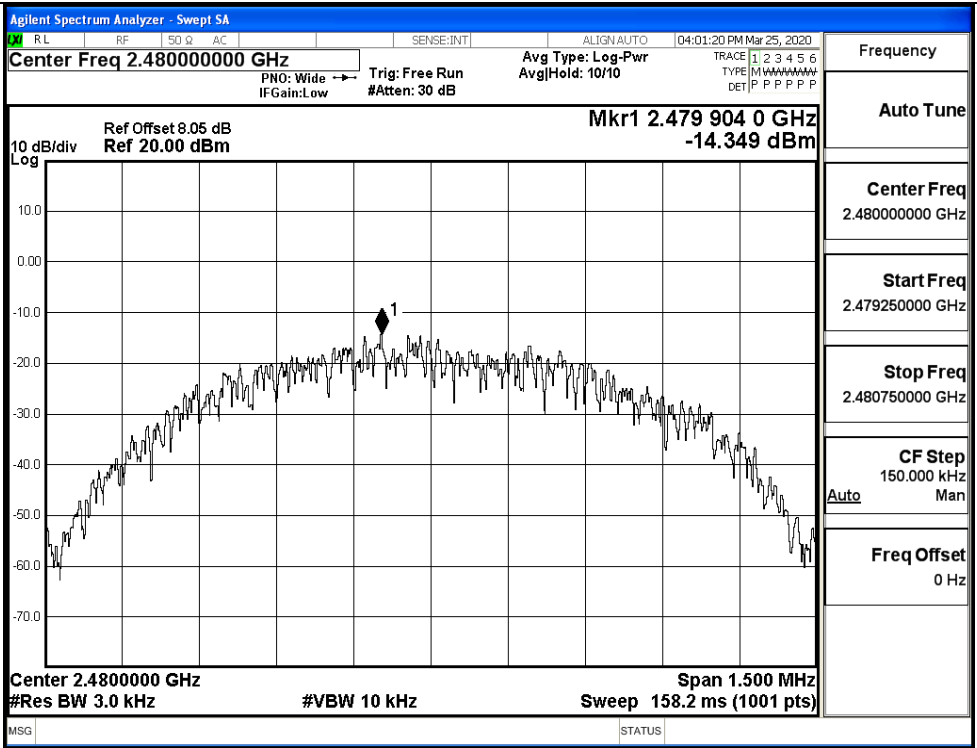
B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.930	8	PASS
BT LE	MCH	-12.651	8	PASS
BT LE	HCH	-14.349	8	PASS

Test Graphs



HCH



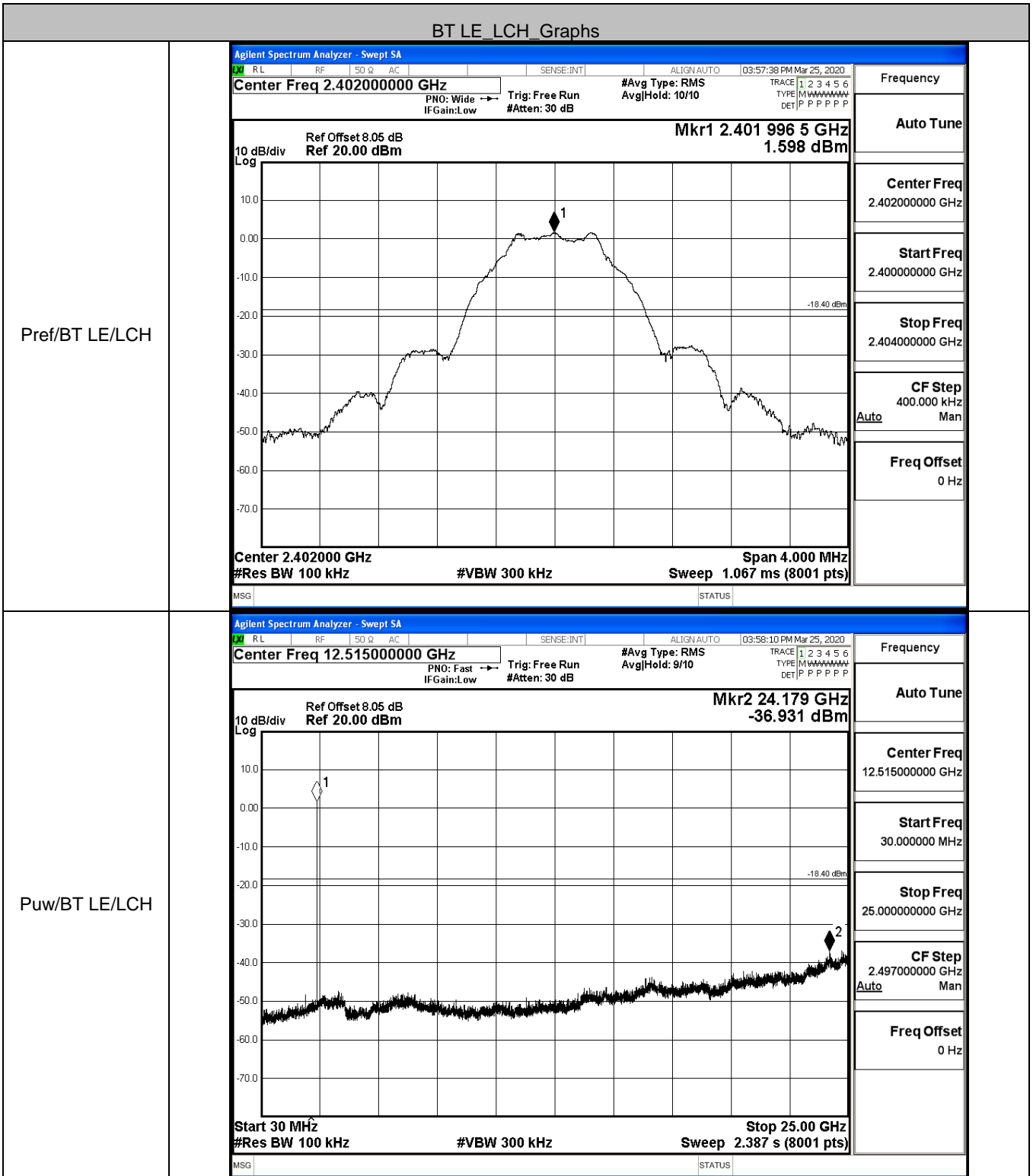
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7061	≥0.5	PASS
BT LE	MCH	0.7046	≥0.5	PASS
BT LE	HCH	0.7088	≥0.5	PASS

Test Graphs																	
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 03:56:49 PM Mar 25, 2020</p> <p style="margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run AvgHold: >1/1 #IFGain: Low #Atten: 30 dB Radio Device: BTS</p> <div style="display: flex; justify-content: space-between;"> <div style="font-size: x-small;"> 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm </div> <div style="text-align: right;"> Mkr1 2.4019985 GHz 1.5732 dBm </div> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <div>Center 2.402 GHz #Res BW 100 kHz</div> <div>#VBW 300 kHz</div> <div>Span 3 MHz Sweep 1.067 ms</div> </div> <table style="width: 100%; font-size: x-small; margin-top: 5px;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">8.66 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;">1.0461 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>6.255 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>706.1 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin-top: 5px;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	8.66 dBm		1.0461 MHz				Transmit Freq Error	6.255 kHz	OBW Power	99.00 %	x dB Bandwidth	706.1 kHz	x dB	-6.00 dB
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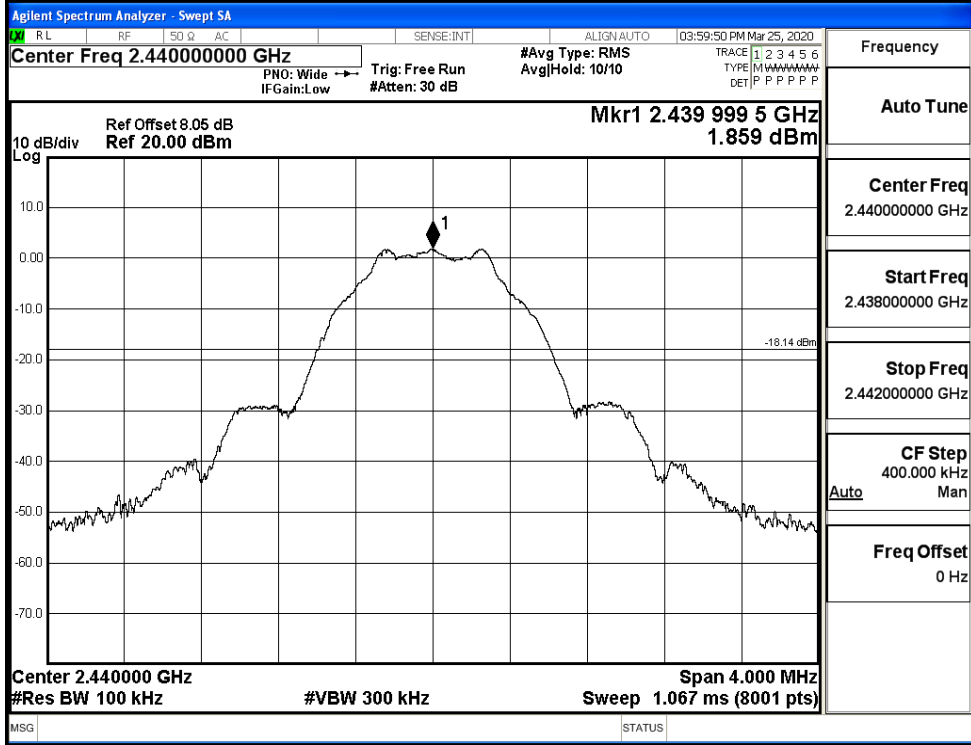
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.598	-36.931	-18.402	PASS
BT LE	MCH	1.859	-37.126	-18.141	PASS
BT LE	HCH	0.429	-37.608	-19.571	PASS

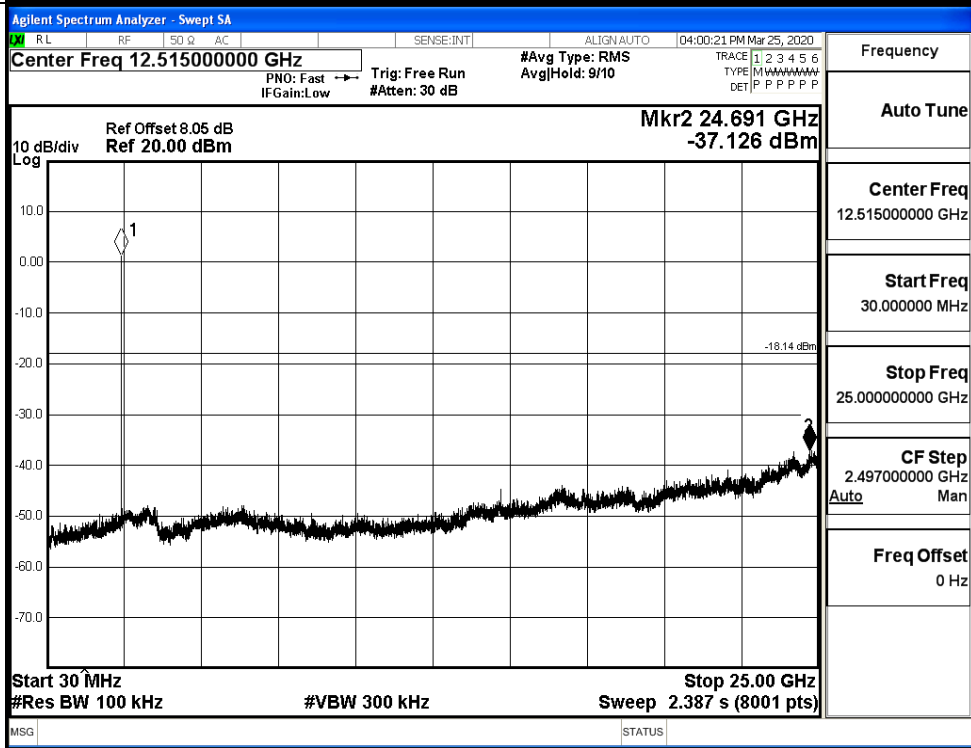


BT LE_MCH_Graphs

Pref/BT LE/MCH

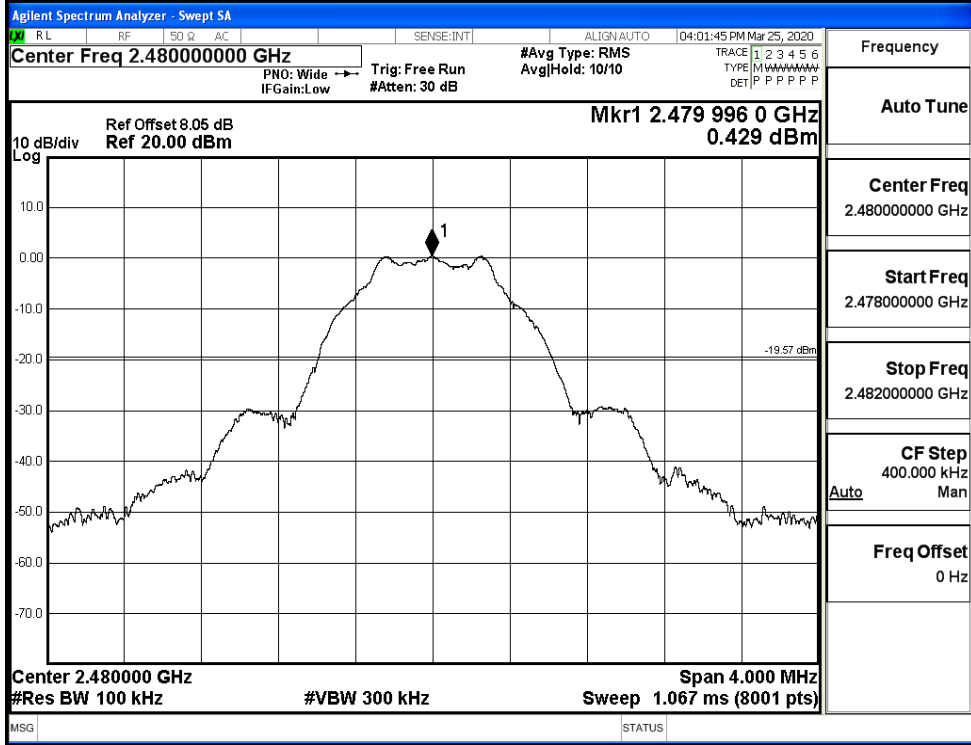


Puw/BT LE/MCH

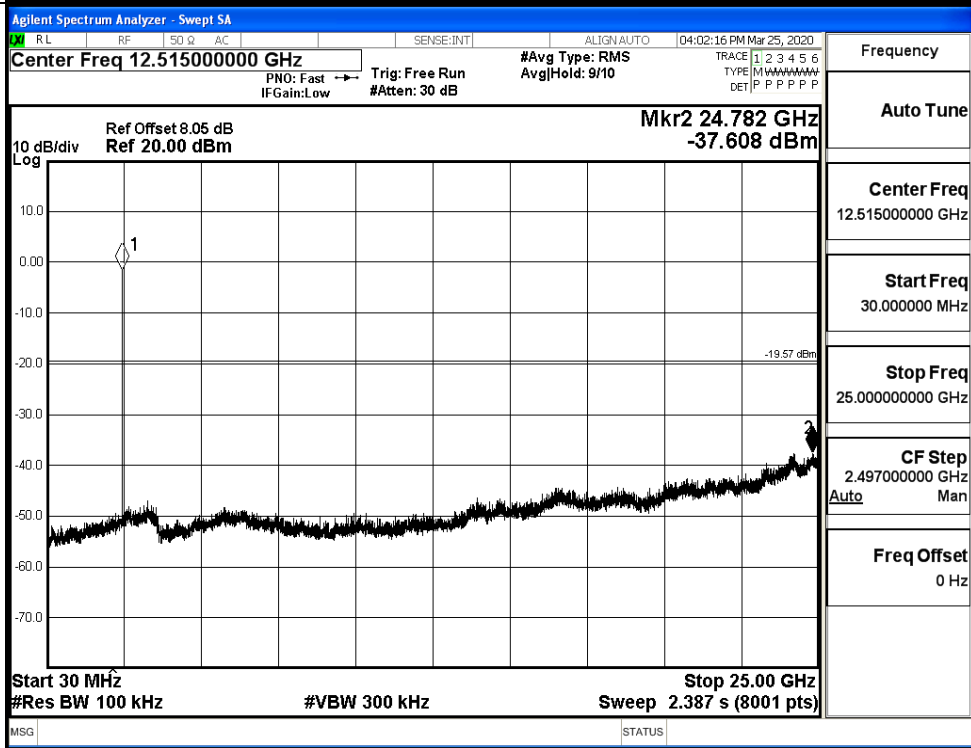


BT LE_HCH_Graphs

Pref/BT LE/HCH



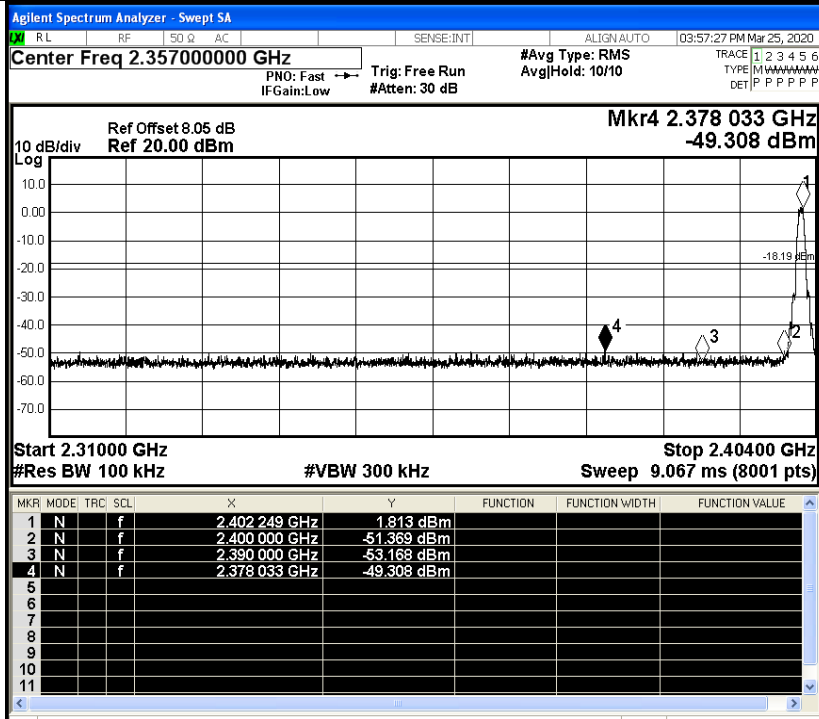
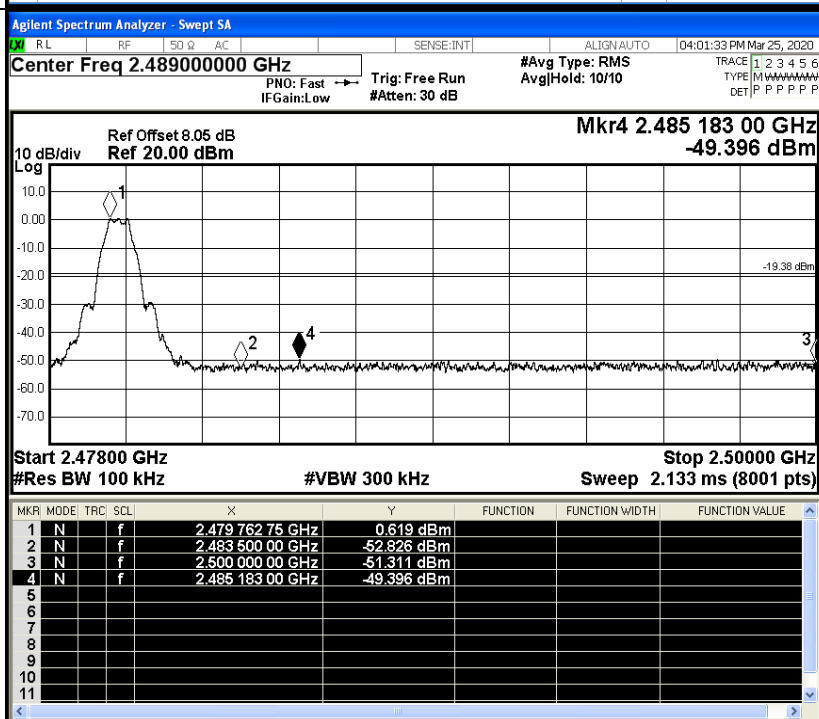
Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.813	-49.308	-18.19	PASS
BT LE	HCH	0.619	-49.396	-19.38	PASS

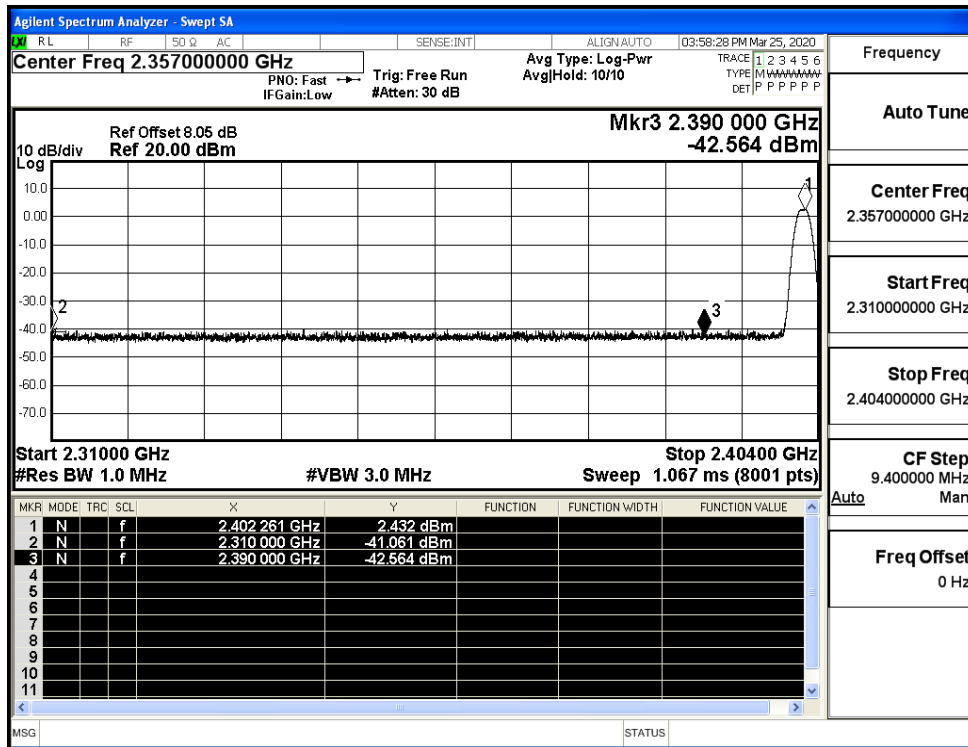
Test Graphs

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>
HCH		<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>

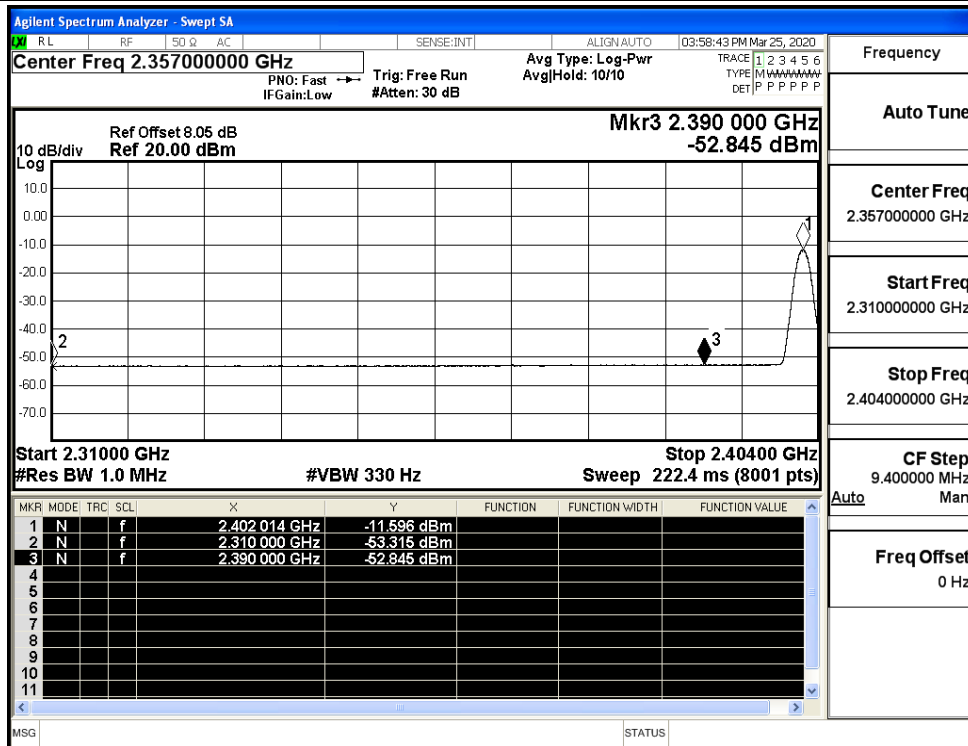
B.7 Restrict-band band-edge measurements

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	-41.06	2.0	0	54.20	PEAK	74	PASS
		Ant1	2310.0	-53.32	2.0	0	41.94	AV	54	PASS
		Ant1	2390.0	-42.56	2.0	0	52.69	PEAK	74	PASS
		Ant1	2390.0	-52.85	2.0	0	42.41	AV	54	PASS
	2480	Ant1	2483.5	-42.34	2.0	0	52.92	PEAK	74	PASS
		Ant1	2483.5	-52.37	2.0	0	42.89	AV	54	PASS
		Ant1	2500.0	-40.05	2.0	0	55.20	PEAK	74	PASS
		Ant1	2500.0	-52.24	2.0	0	43.02	AV	54	PASS

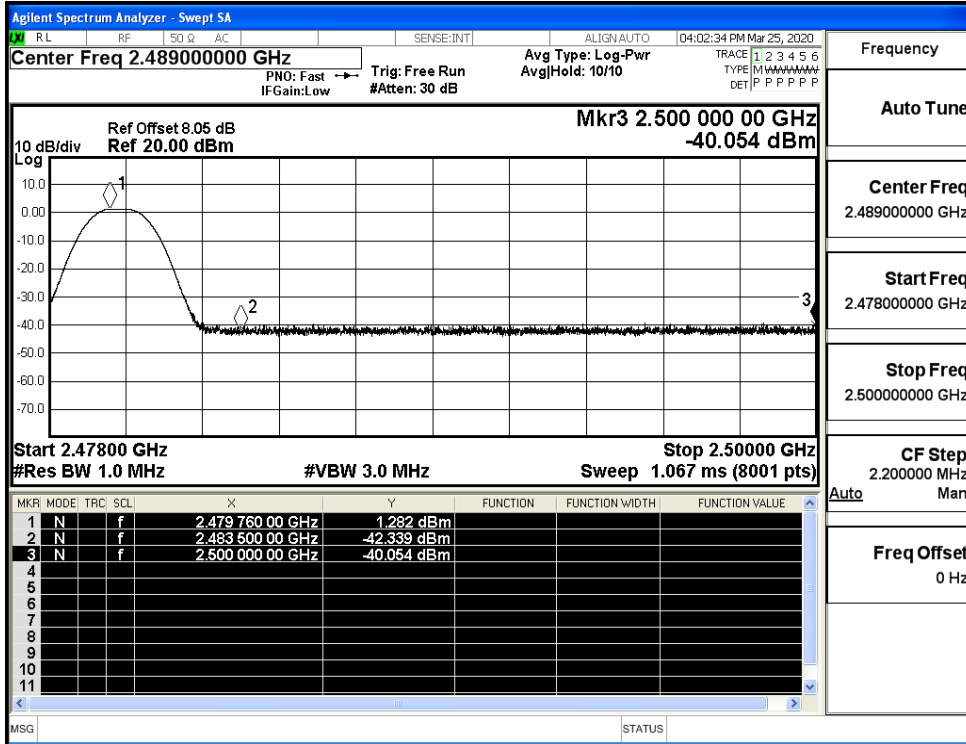
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

