

## Appendix B

### RF Test Data for BLE V4.2(DTS) (Conducted Measurement)

Product Name: Remote Control

Trade Mark: ANDOBIL

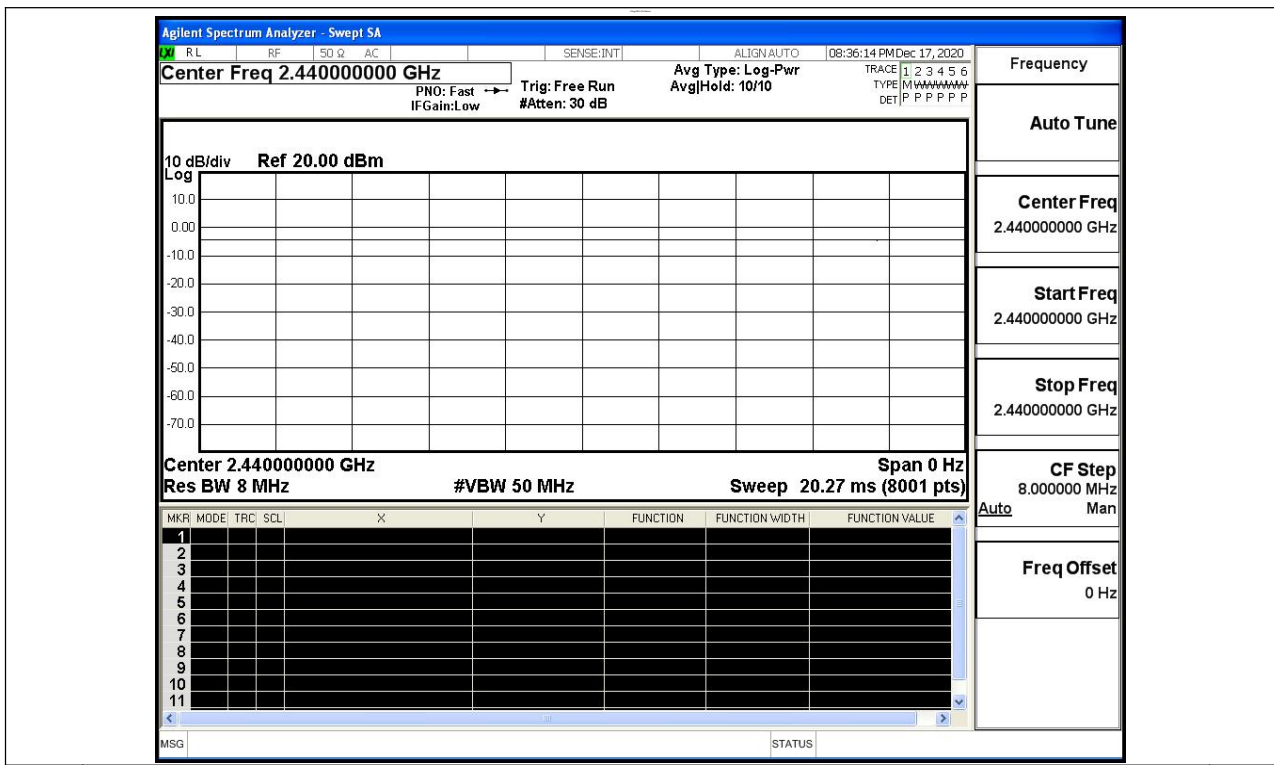
Test Model: PDUZ59

#### Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Ben Jin
Supervised by:	Li Huan

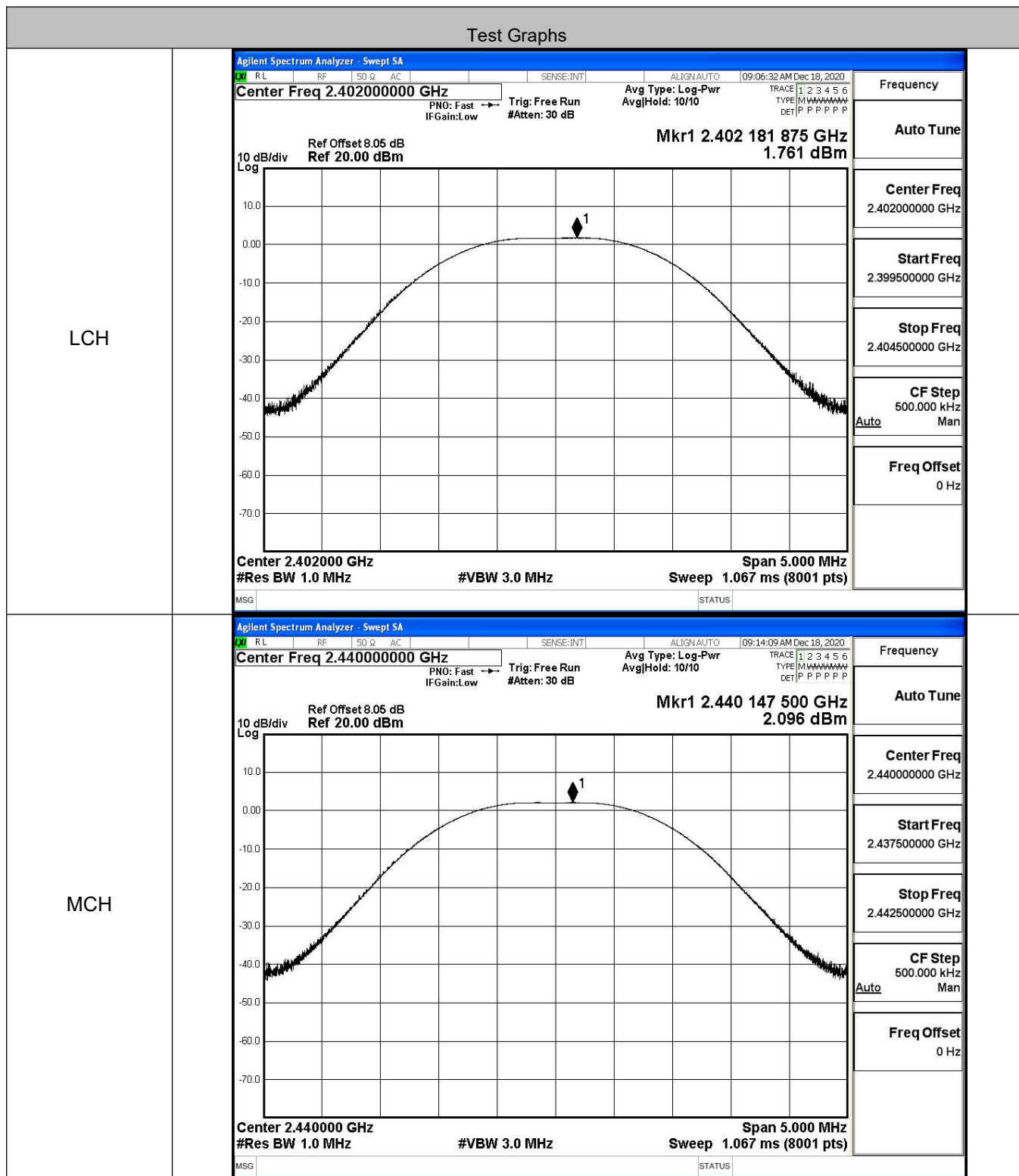
#### A.1 Duty Cycle

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



### A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.761	30	PASS
BT LE	MCH	2.096	30	PASS
BT LE	HCH	1.717	30	PASS

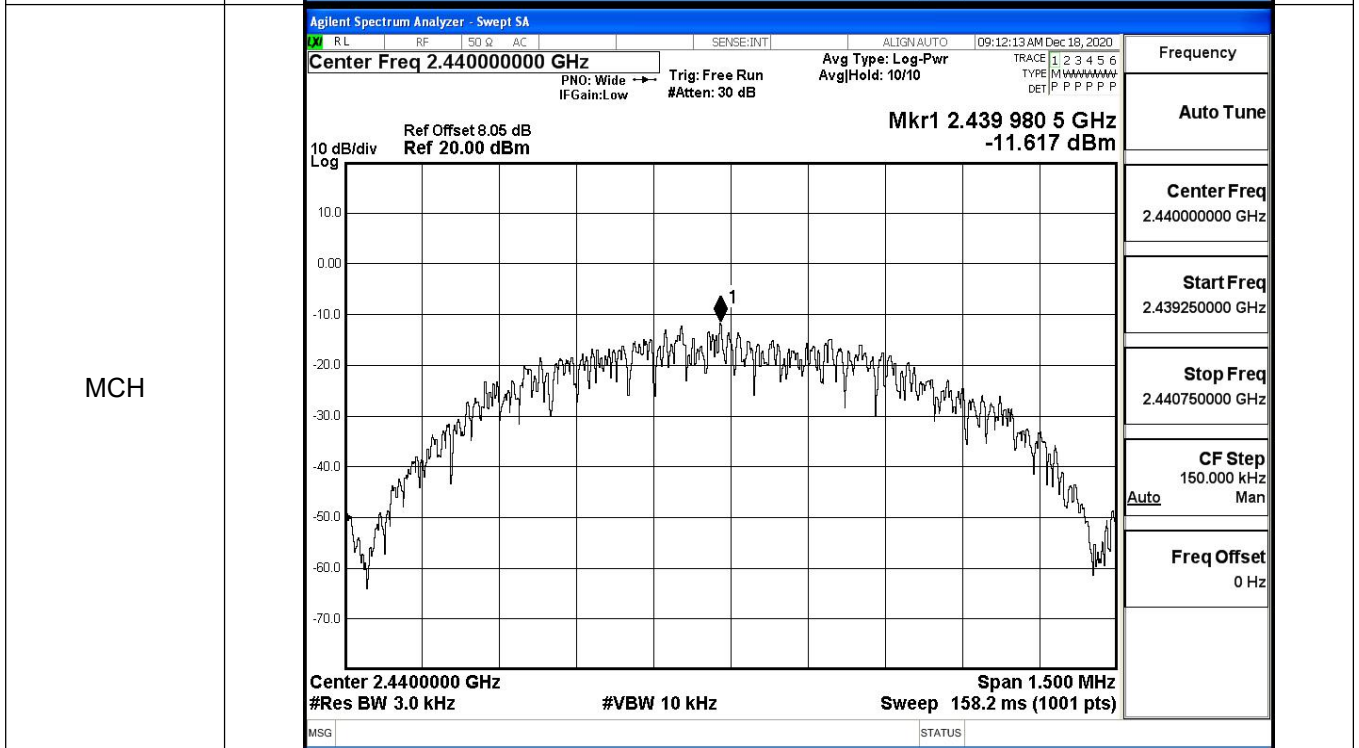
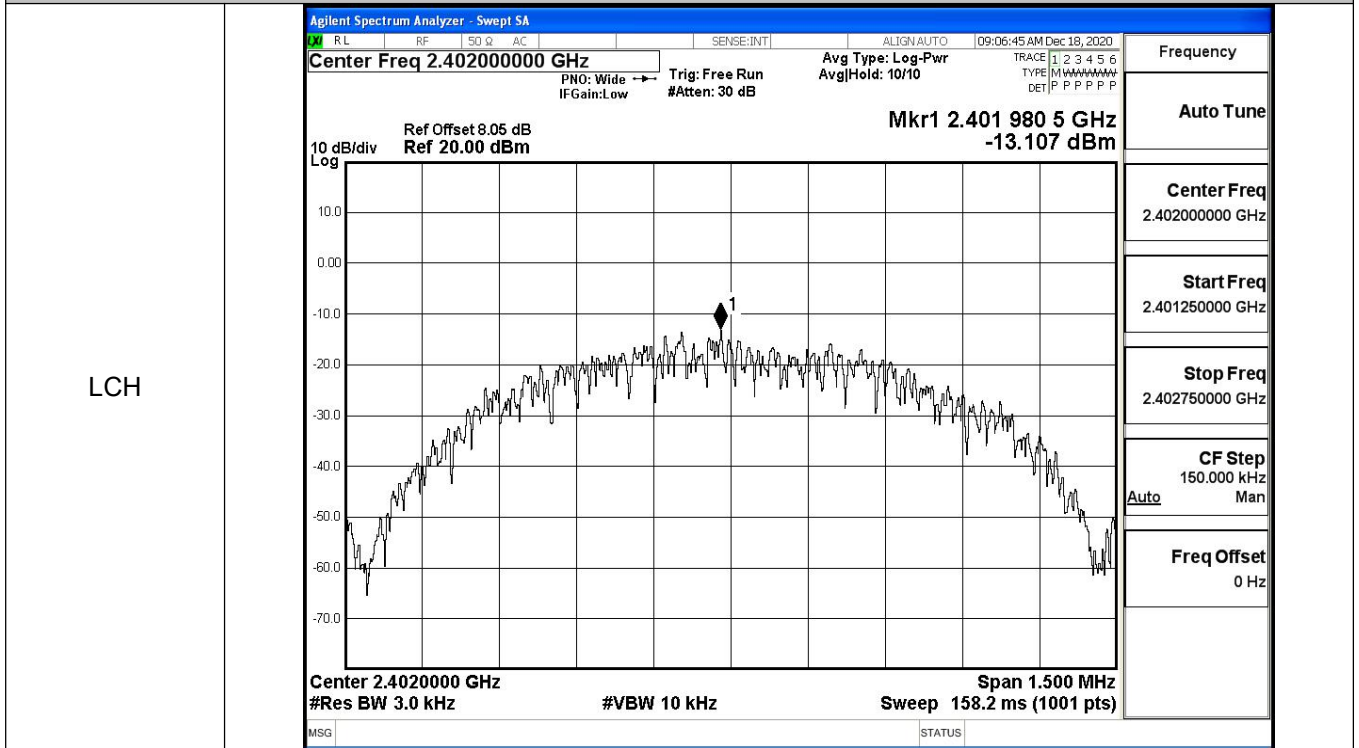




### A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.107	8	PASS
BT LE	MCH	-11.617	8	PASS
BT LE	HCH	-12.995	8	PASS

#### Test Graphs



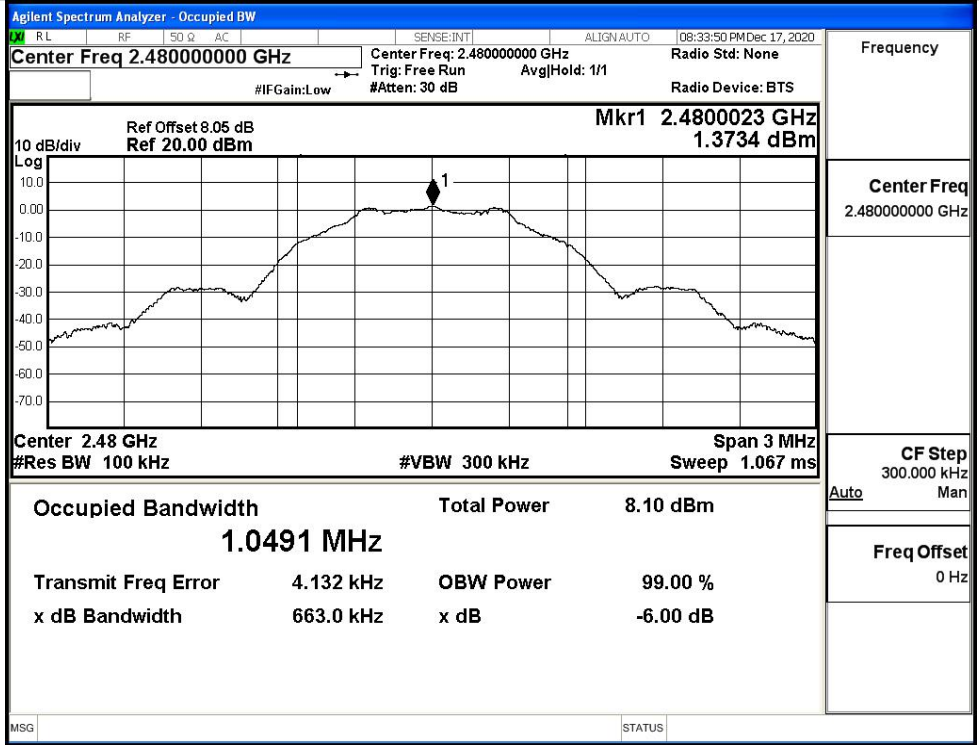


**A.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6593	≥0.5	PASS
BT LE	MCH	0.6585	≥0.5	PASS
BT LE	HCH	0.6630	≥0.5	PASS

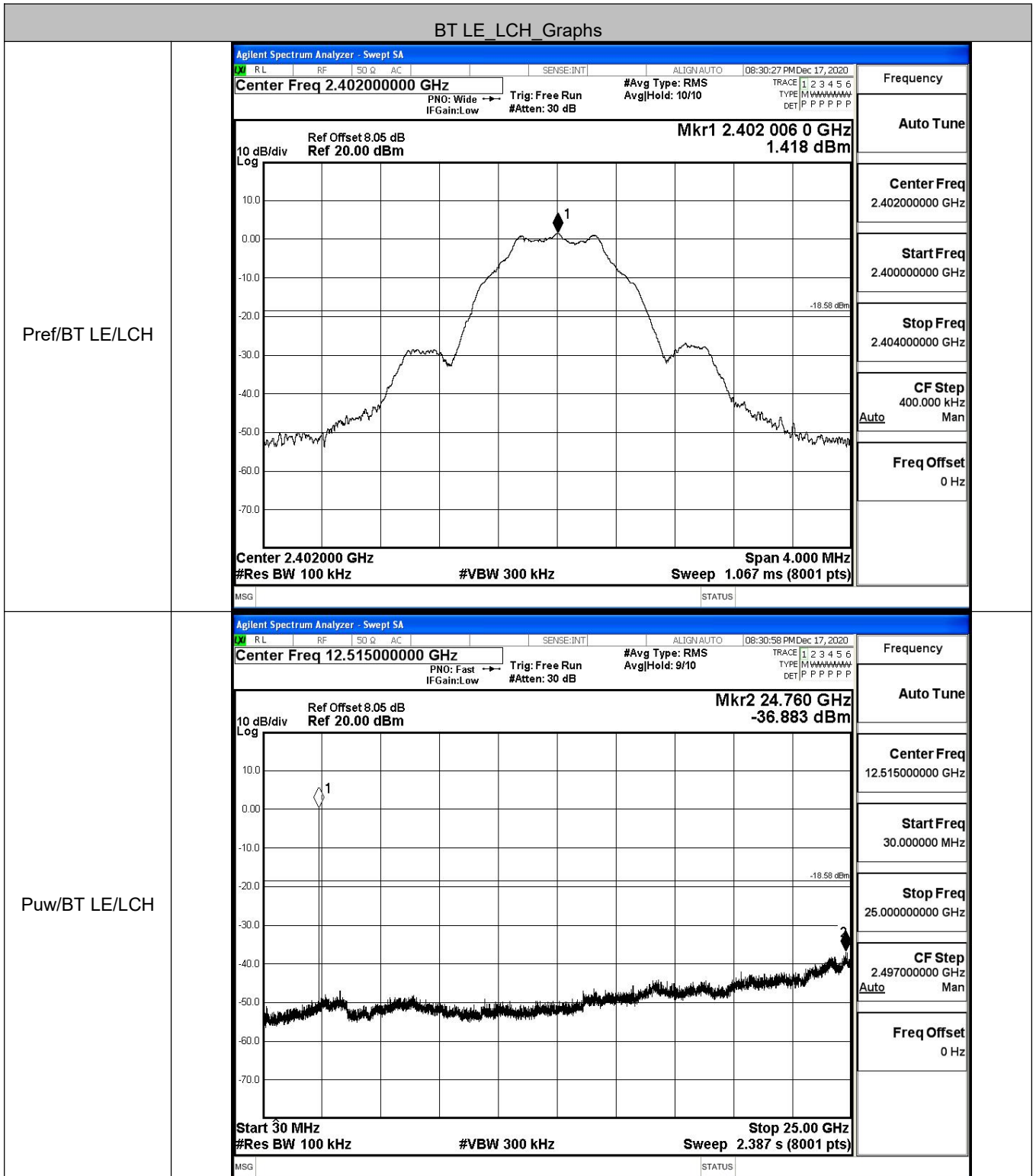
Test Graphs																			
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:29:39 PM Dec 17, 2020</p> <p style="margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None                      Trig: Free Run AvgHold: &gt;1/1                      #IFGain: Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: right; margin: 0;">Mkr1 2.4020075 GHz 1.3733 dBm</p> </div> <p style="font-size: small; margin: 0;">Center 2.402 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">8.18 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0495 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>6.796 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>659.3 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	8.18 dBm	<b>1.0495 MHz</b>			Transmit Freq Error	6.796 kHz	OBW Power	x dB Bandwidth	659.3 kHz	x dB			99.00 %			-6.00 dB
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HCH



### A.5 RF Conducted Spurious Emissions

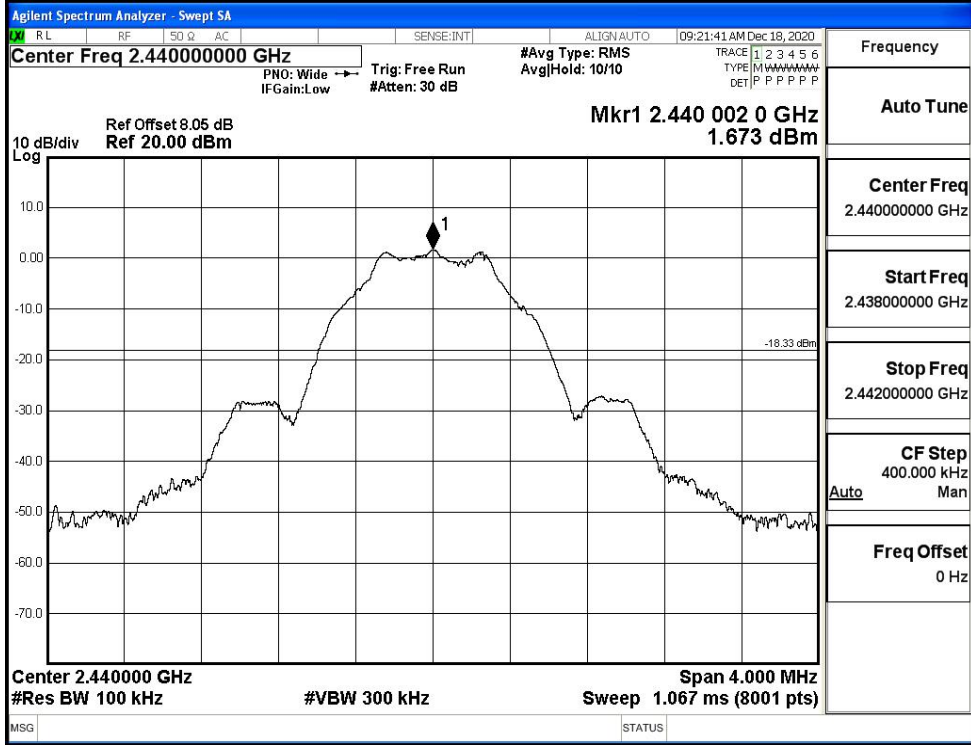
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.418	-36.883	-18.582	PASS
BT LE	MCH	1.673	-36.678	-18.327	PASS
BT LE	HCH	1.31	-37.014	-18.690	PASS



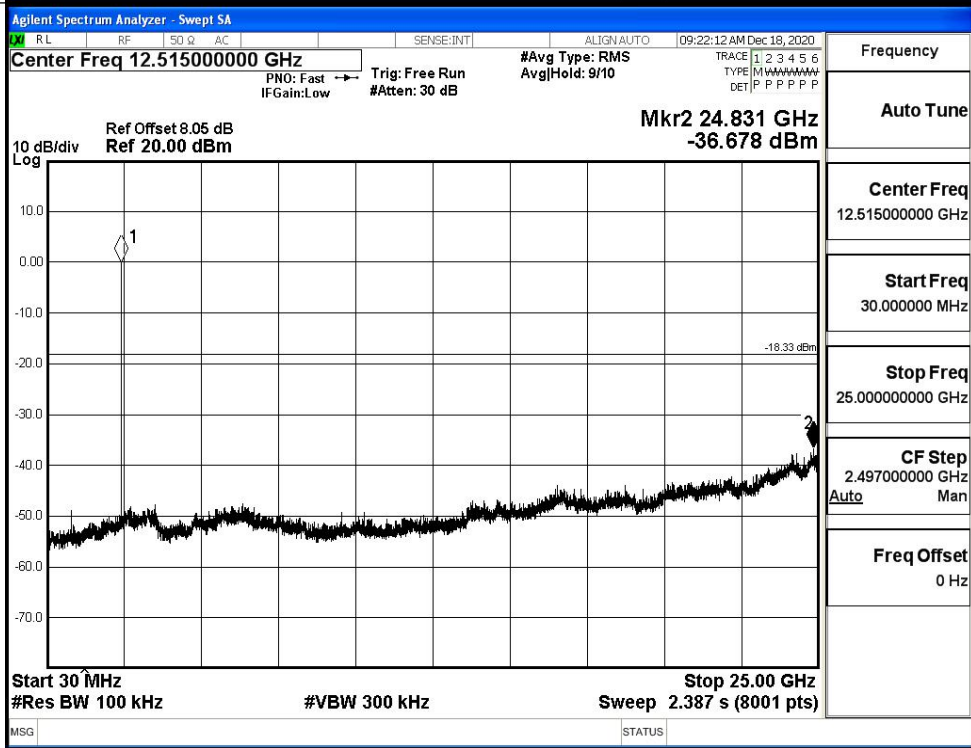


BT LE MCH Graphs

Pref/BT LE/MCH

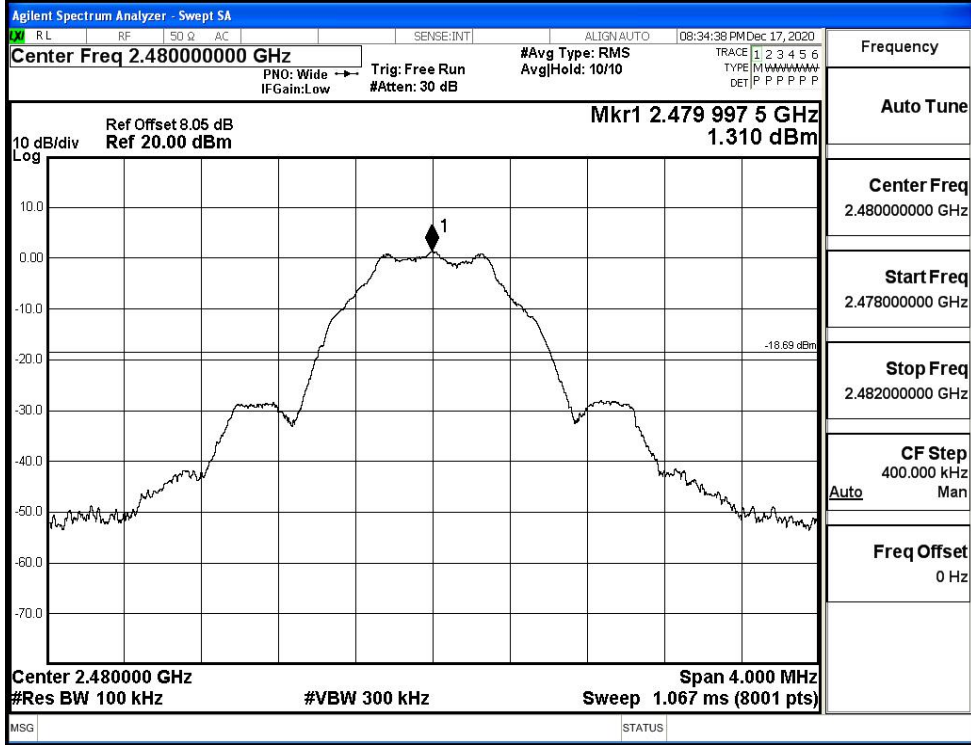


Puw/BT LE/MCH

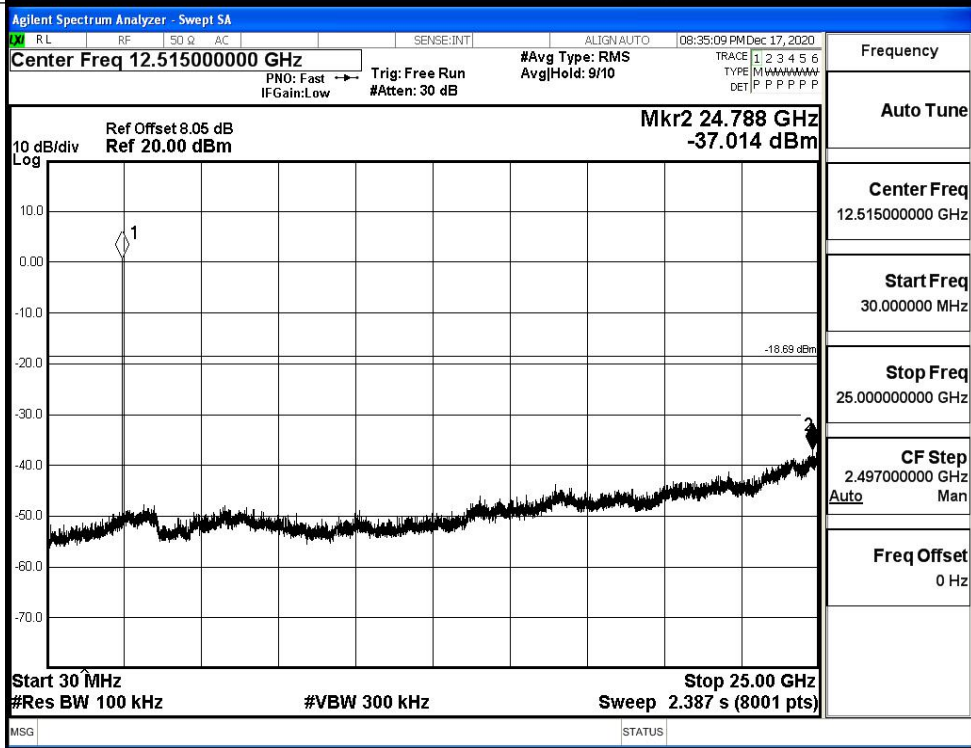


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



### A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.333	-49.479	-18.67	PASS
BT LE	HCH	1.412	-49.778	-18.59	PASS

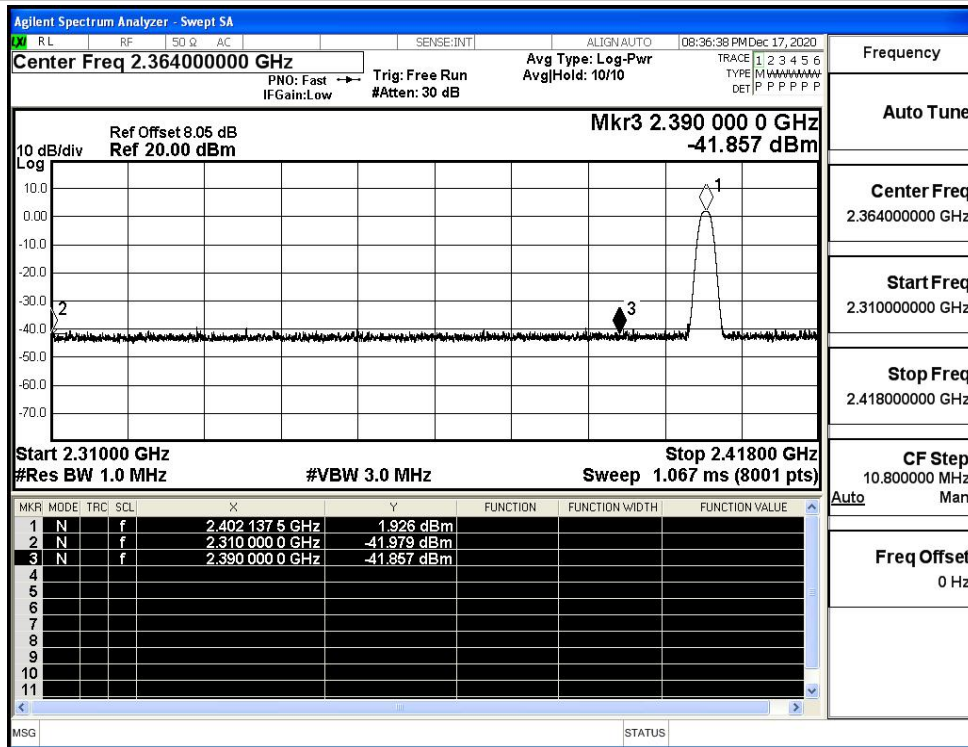
#### Test Graphs

LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.36400000 GHz Mkr4 2.379 268 5 GHz -49.479 dBm</p> <table border="1"> <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>f</td> <td></td> <td>2.402 002 5 GHz</td> <td>1.333 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400 000 0 GHz</td> <td>-52.682 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390 000 0 GHz</td> <td>-52.993 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.379 268 5 GHz</td> <td>-49.479 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		2.402 002 5 GHz	1.333 dBm				2	N	f		2.400 000 0 GHz	-52.682 dBm				3	N	f		2.390 000 0 GHz	-52.993 dBm				4	N	f		2.379 268 5 GHz	-49.479 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.36400000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.41800000 GHz</p> <p>CF Step 10.800000 MHz</p> <p>Freq Offset 0 Hz</p>
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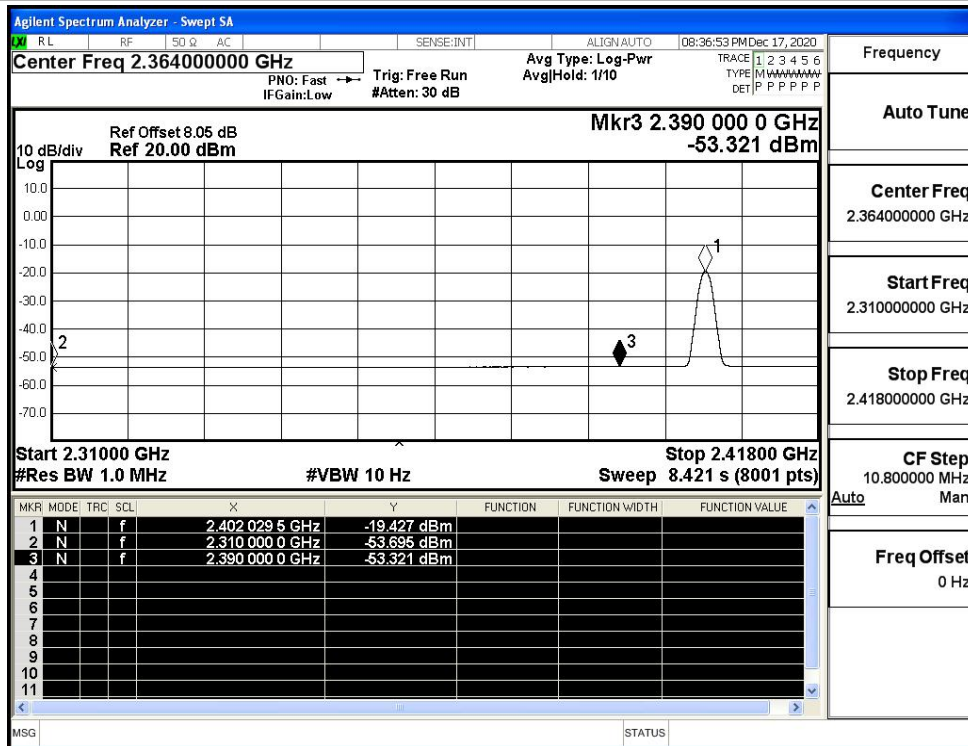
## A.7 Restrict-band band-edge measurements

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	-41.98	2.0	0	53.28	PEAK	74	PASS
		Ant1	2310.0	-53.70	2.0	0	41.56	AV	54	PASS
		Ant1	2390.0	-41.86	2.0	0	53.40	PEAK	74	PASS
		Ant1	2390.0	-53.32	2.0	0	41.94	AV	54	PASS
	2480	Ant1	2483.5	-41.34	2.0	0	53.92	PEAK	74	PASS
		Ant1	2483.5	-52.80	2.0	0	42.45	AV	54	PASS
		Ant1	2500.0	-41.43	2.0	0	53.83	PEAK	74	PASS
		Ant1	2500.0	-52.63	2.0	0	42.63	AV	54	PASS

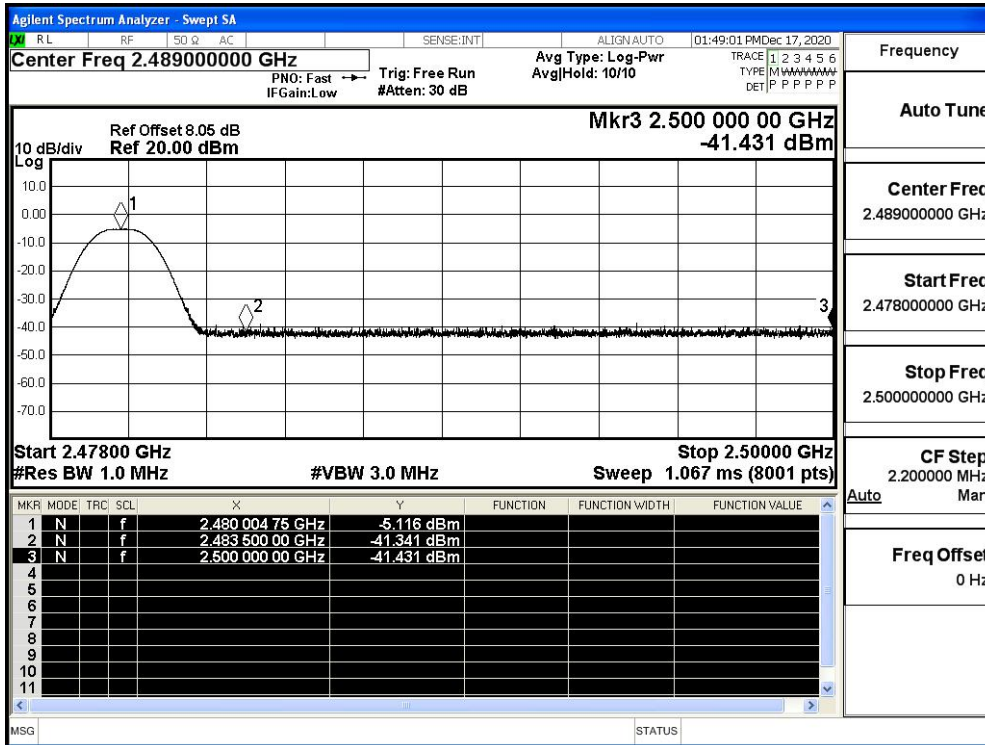
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

