

## Appendix B

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

Product Name: VIGOR 5X

Trade Mark:  军拓 JTOUR

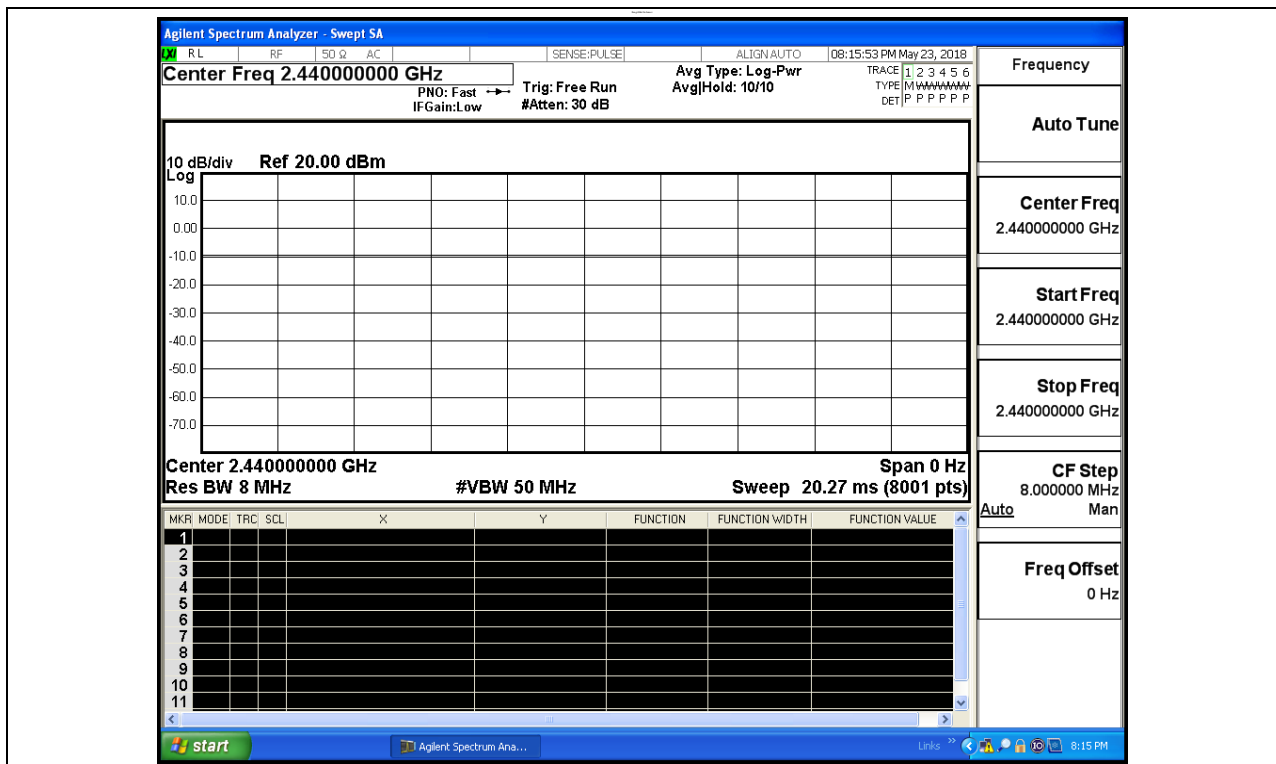
Test Model: JW910

#### Environmental Conditions

Temperature:	23.6 °C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

#### B.1 Duty Cycle

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

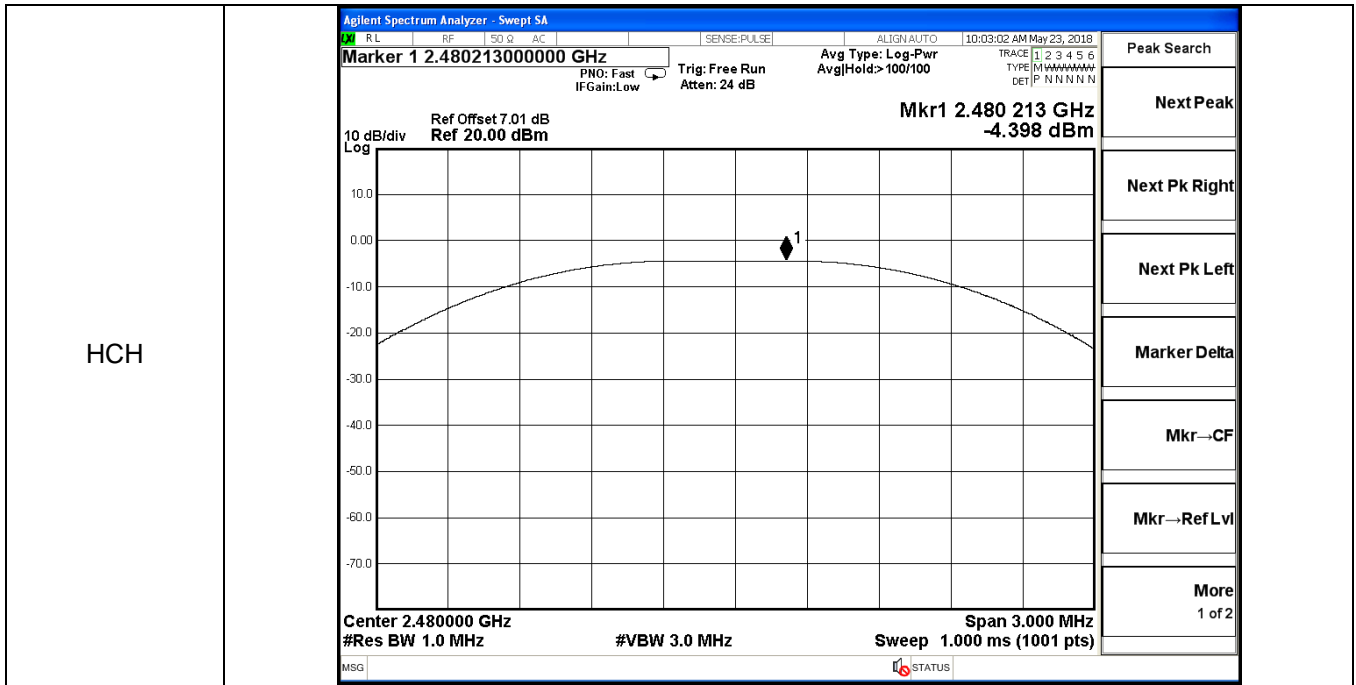


### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.440	30	PASS
BT LE	MCH	-2.179	30	PASS
BT LE	HCH	-4.398	30	PASS

Test Graphs

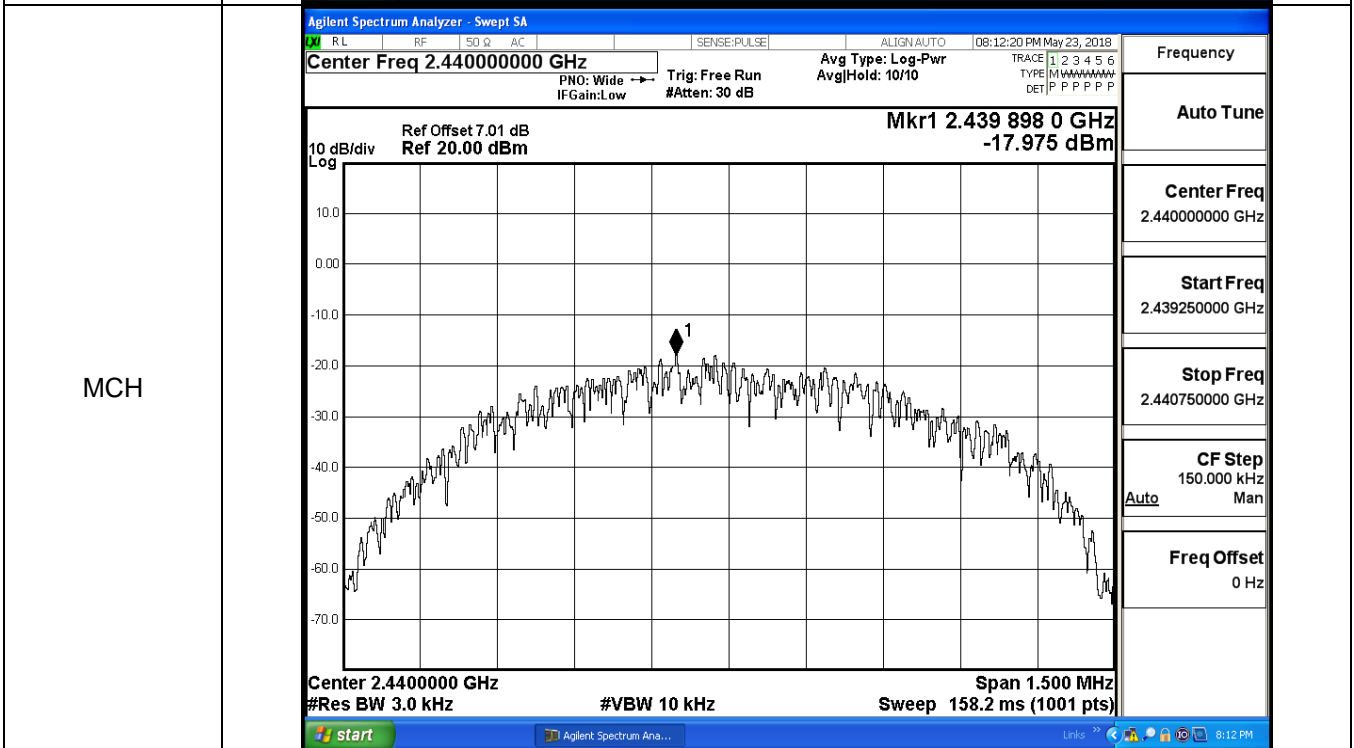
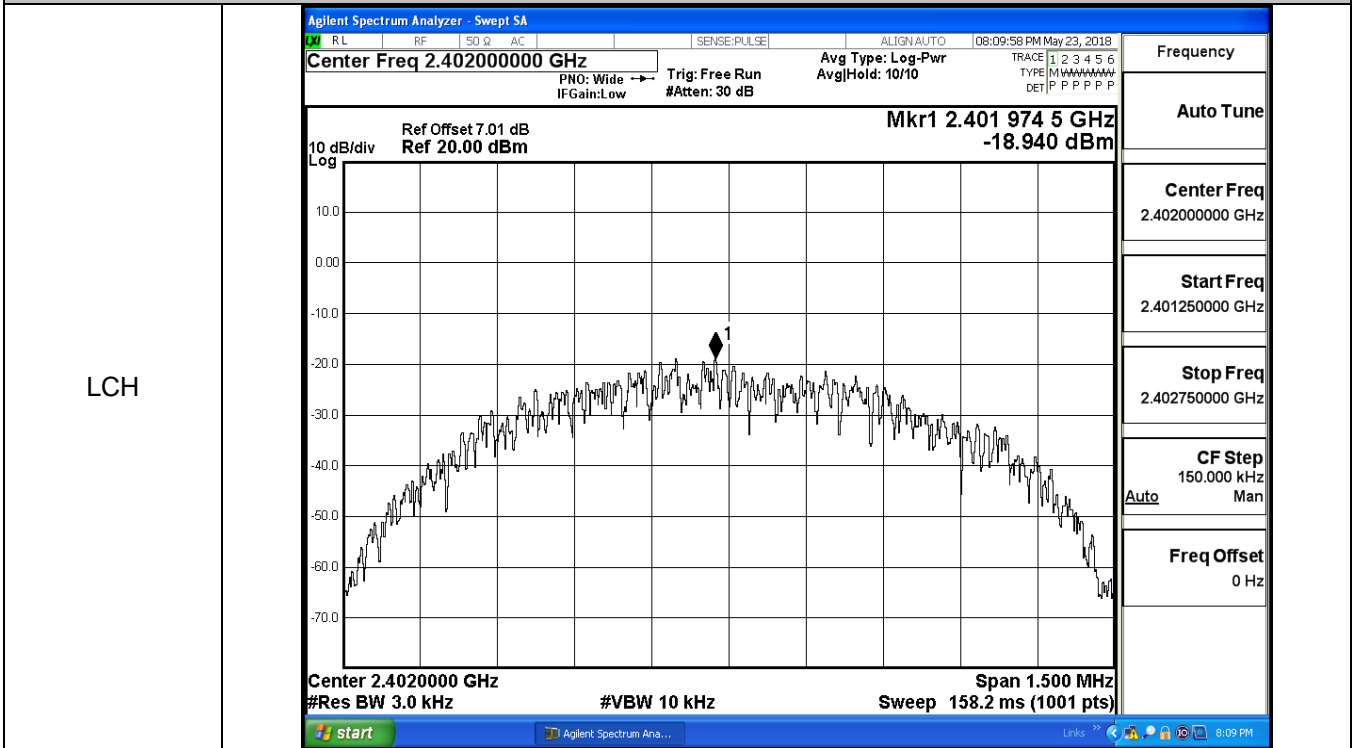
LCH	<p>Agilent Spectrum Analyzer - Swept SA                  Marker 1 2.401841000000 GHz                  Ref Offset 7.01 dB                  Ref 20.00 dBm                  Mkr1 2.401 841 GHz                  -3.440 dBm                  Center 2.402000 GHz                  #Res BW 1.0 MHz                  #VBW 3.0 MHz                  Span 3.000 MHz                  Sweep 1.000 ms (1001 pts)</p>
MCH	<p>Agilent Spectrum Analyzer - Swept SA                  Marker 1 2.440246000000 GHz                  Ref Offset 7.01 dB                  Ref 20.00 dBm                  Mkr1 2.440 246 GHz                  -2.179 dBm                  Center 2.440000 GHz                  #Res BW 1.0 MHz                  #VBW 3.0 MHz                  Span 3.000 MHz                  Sweep 1.000 ms (1001 pts)</p>

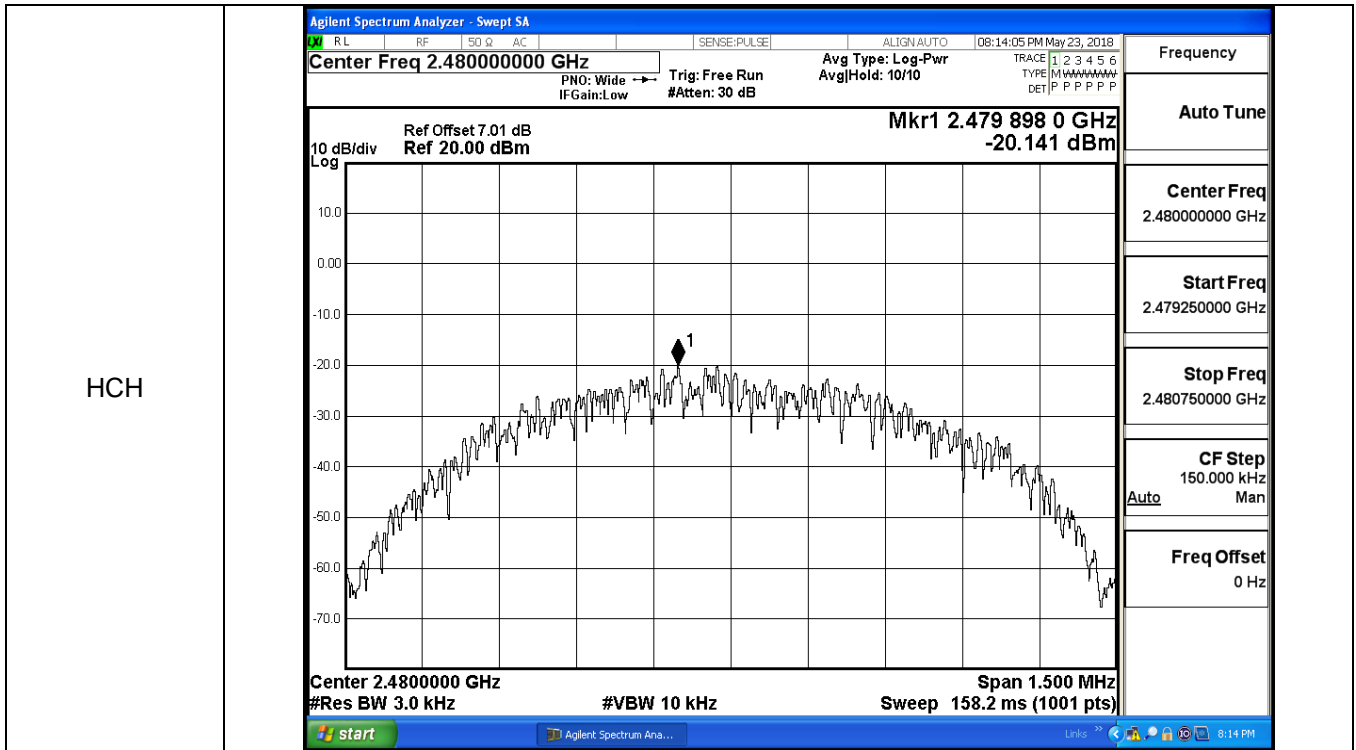


### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.940	8	PASS
BT LE	MCH	-17.975	8	PASS
BT LE	HCH	-20.141	8	PASS

#### Test Graphs





**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6993	≥0.5	PASS
BT LE	MCH	0.7075	≥0.5	PASS
BT LE	HCH	0.6910	≥0.5	PASS

Test Graphs	
LCH	<p><b>Agilent Spectrum Analyzer - Occupied BW</b></p> <p>Center Freq: 2.40200000 GHz              Mkr1 2.4022415 GHz              -4.4376 dBm</p> <p>Occupied Bandwidth: <b>1.0606 MHz</b>              Total Power: 2.62 dBm</p> <p>Transmit Freq Error: 3.845 kHz              x dB Bandwidth: 699.3 kHz</p>
MCH	<p><b>Agilent Spectrum Analyzer - Occupied BW</b></p> <p>Center Freq: 2.44000000 GHz              Mkr1 2.4402468 GHz              -3.4833 dBm</p> <p>Occupied Bandwidth: <b>1.0600 MHz</b>              Total Power: 3.70 dBm</p> <p>Transmit Freq Error: 2.777 kHz              x dB Bandwidth: 707.5 kHz</p>

HCH

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:PULSE	ALIGN:AUTO	08:13:41 PM May 23, 2018
<b>Center Freq 2.480000000 GHz</b>			Center Freq: 2.480000000 GHz		Radio Std: None	
			Trig: Free Run		AvgHold: 1/1	
#IFGain:Low			#Atten: 30 dB		Radio Device: BTS	

10 dB/div  
Log

**Mkr1 2.480243 GHz**  
-5.7471 dBm

Center 2.48 GHz	#VBW 300 kHz	Span 3 MHz
#Res BW 100 kHz	Sweep 1.067 ms	

<b>Occupied Bandwidth</b>	Total Power	1.40 dBm
<b>1.0541 MHz</b>		
Transmit Freq Error	1.352 kHz	OBW Power 99.00 %
x dB Bandwidth	691.0 kHz	x dB -6.00 dB

<b>Frequency</b>	
Center Freq	2.480000000 GHz
CF Step	300.000 kHz
Auto	Man
Freq Offset	0 Hz

start

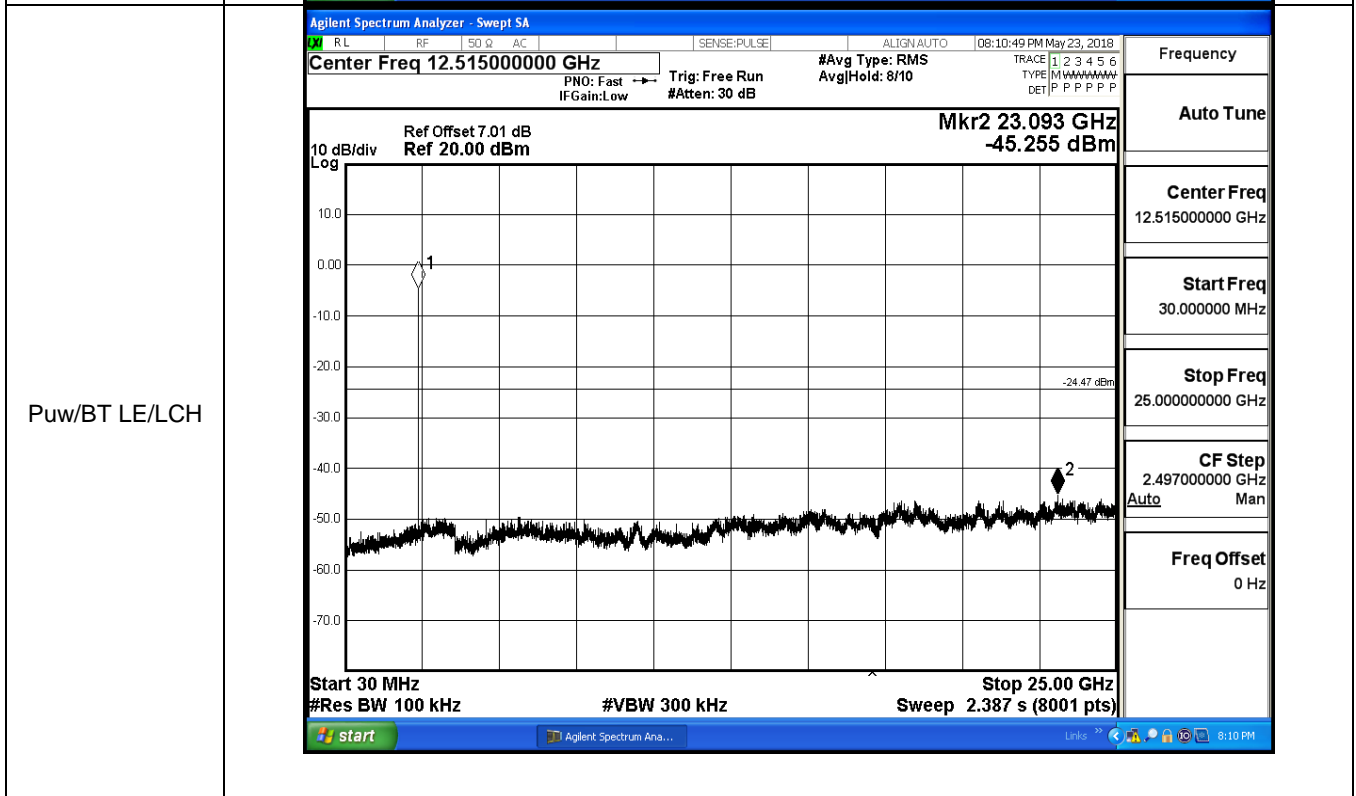
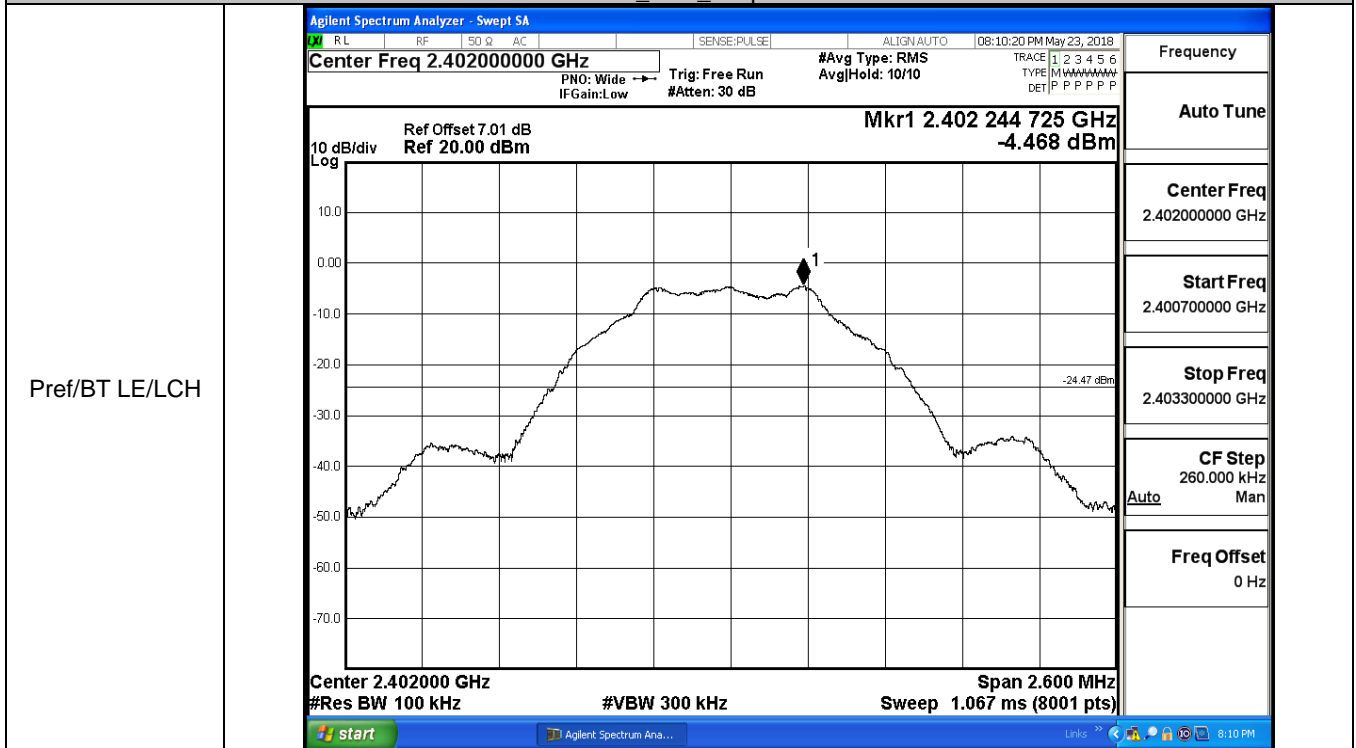
Agilent Spectrum Ana...

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### B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.468	-45.255	-24.468	PASS
BT LE	MCH	-3.445	-44.341	-23.445	PASS
BT LE	HCH	-5.778	-45.283	-25.778	PASS

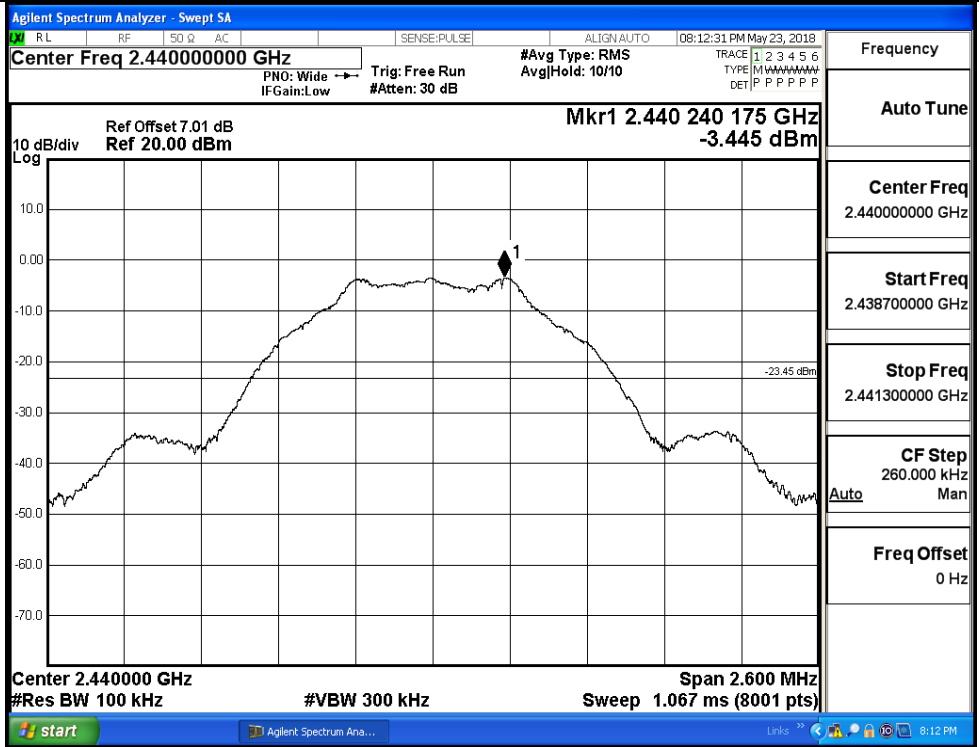
BT LE\_LCH\_Graphs



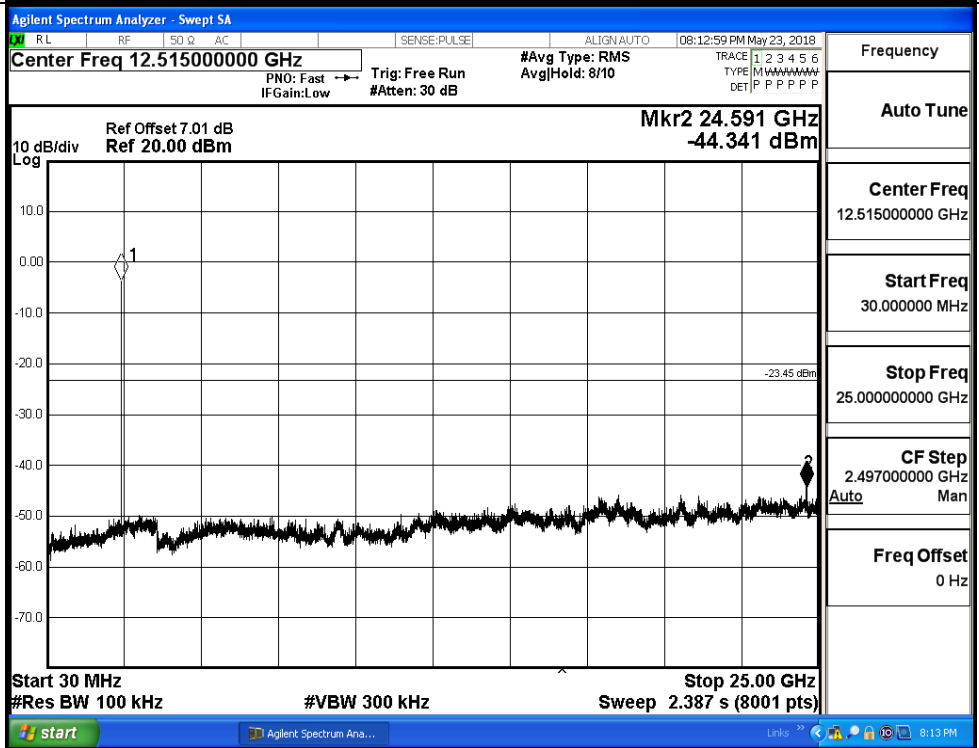


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

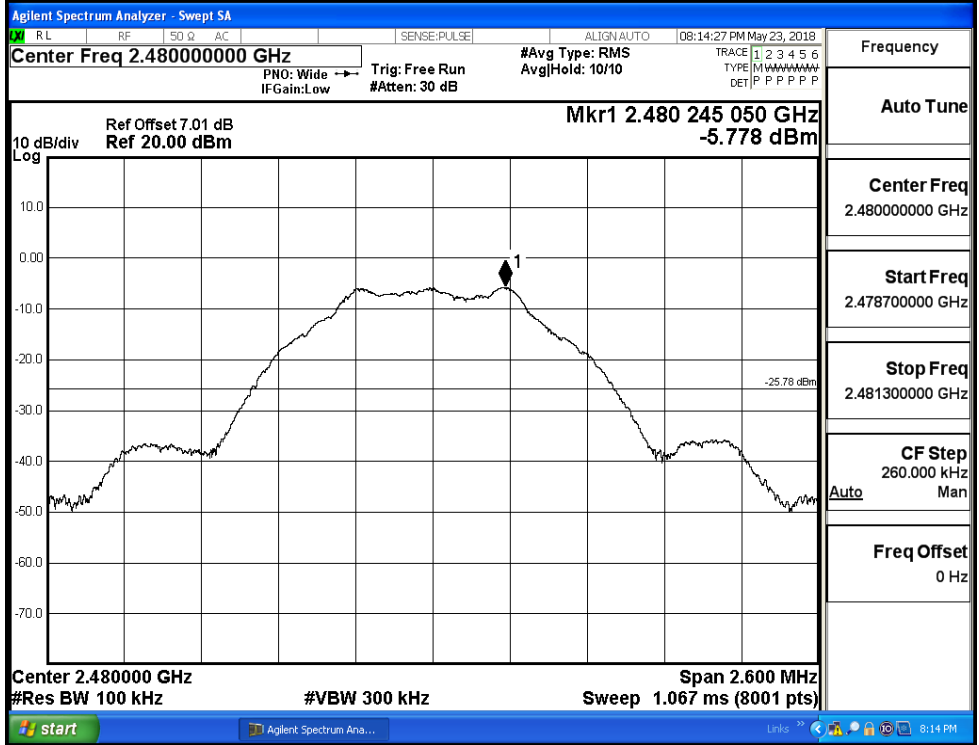


Puw/BT LE/MCH

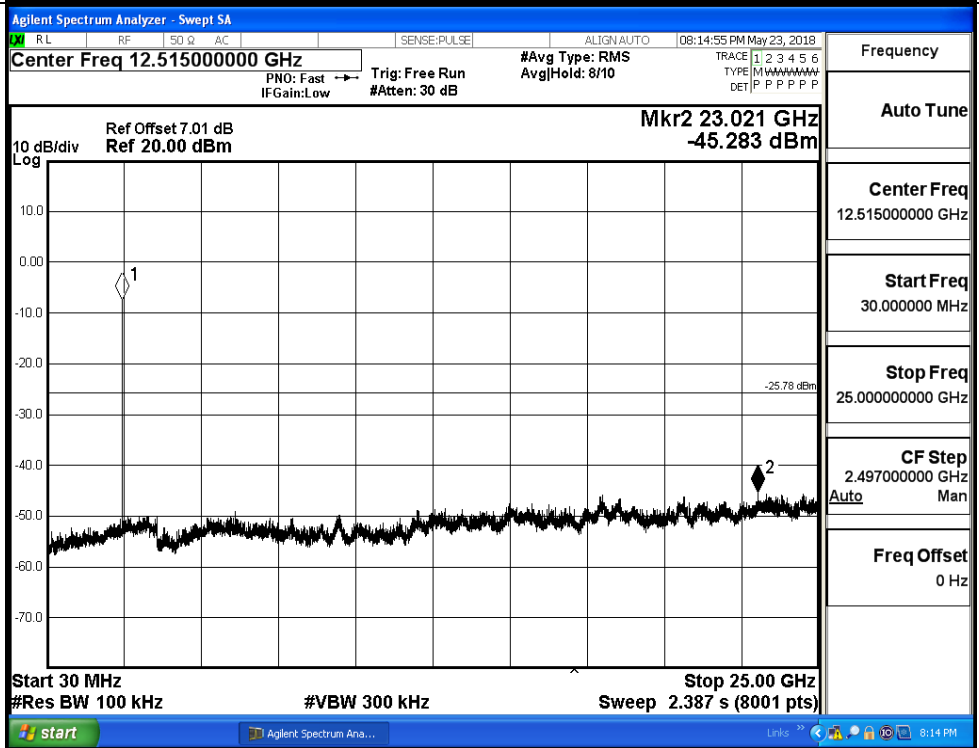


BT LE\_HCH\_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

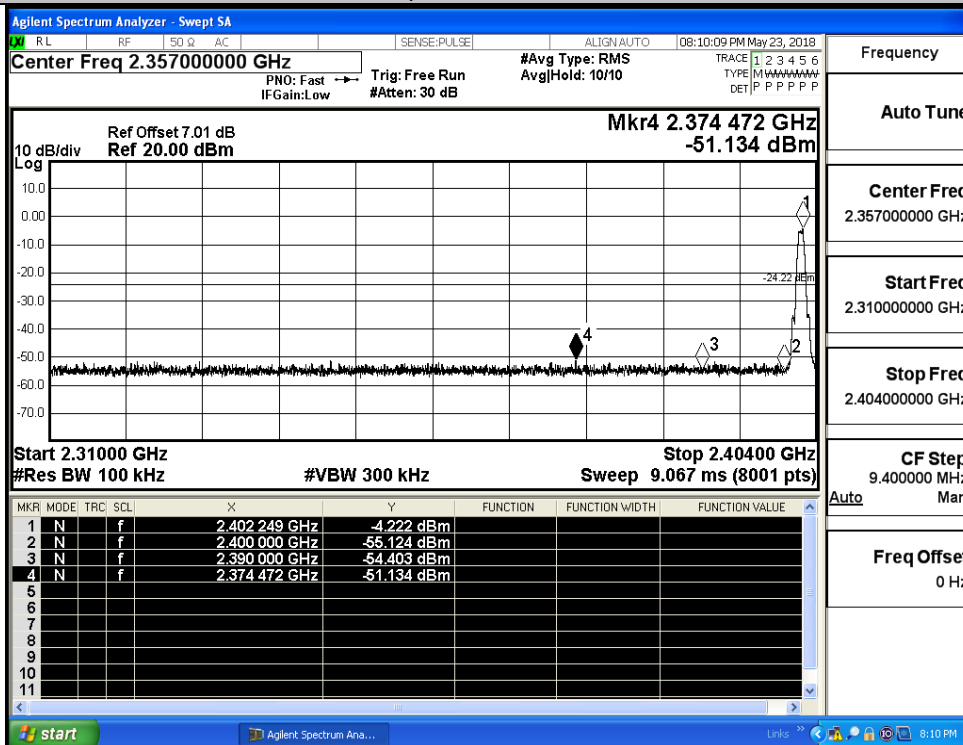


### B.6 Band-edge for RF Conducted Emissions

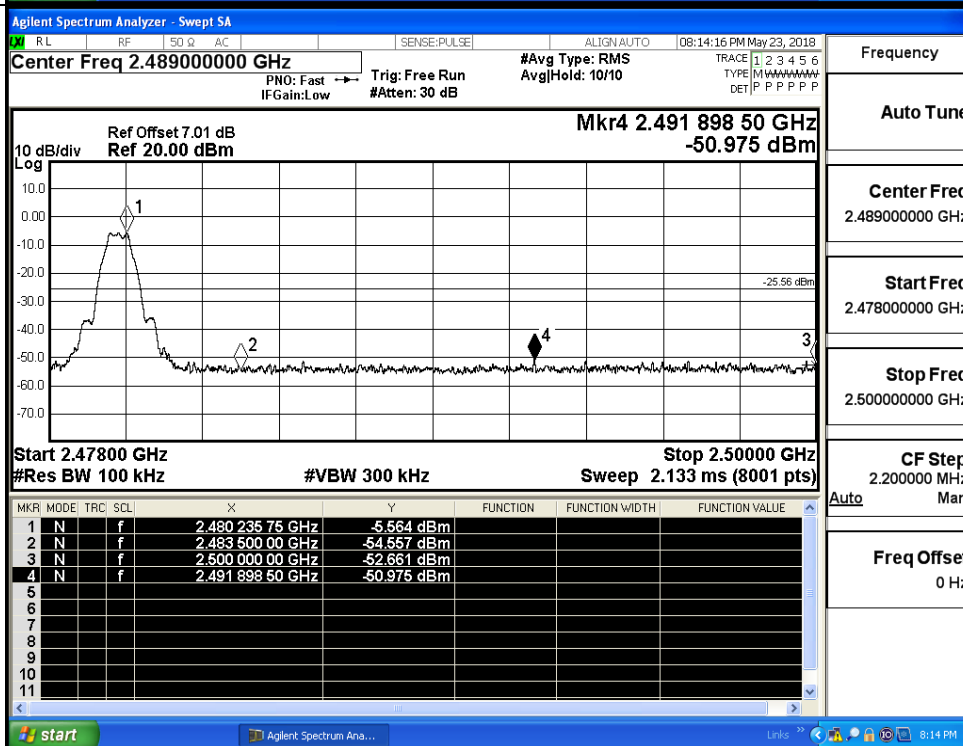
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.222	-51.134	-24.22	PASS
BT LE	HCH	-5.564	-50.975	-25.56	PASS

#### Test Graphs

LCH



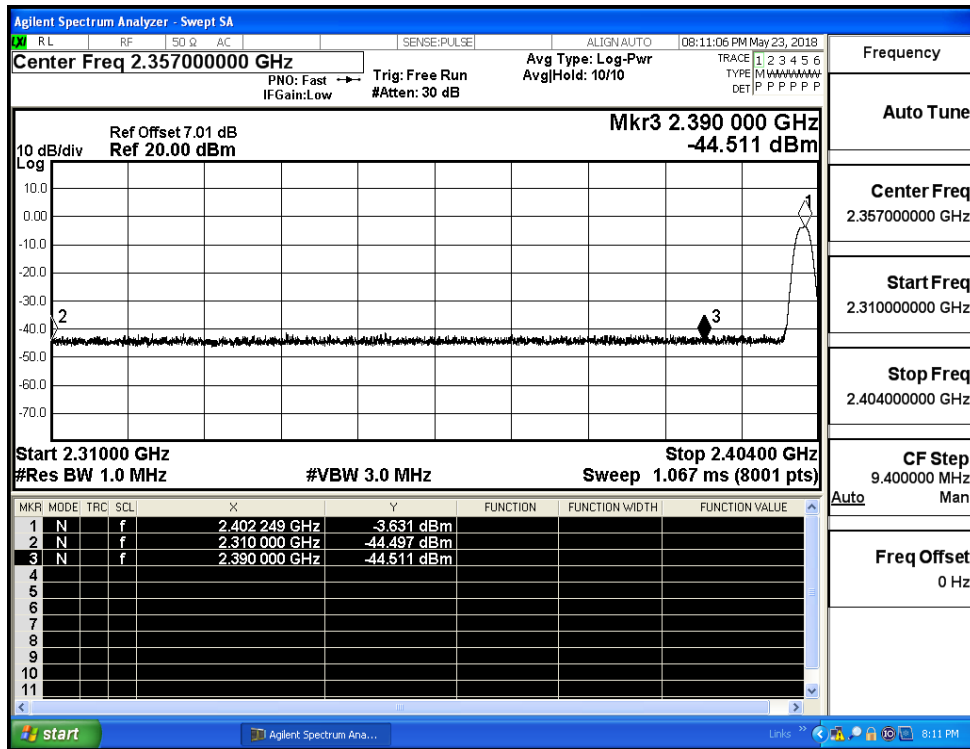
HCH



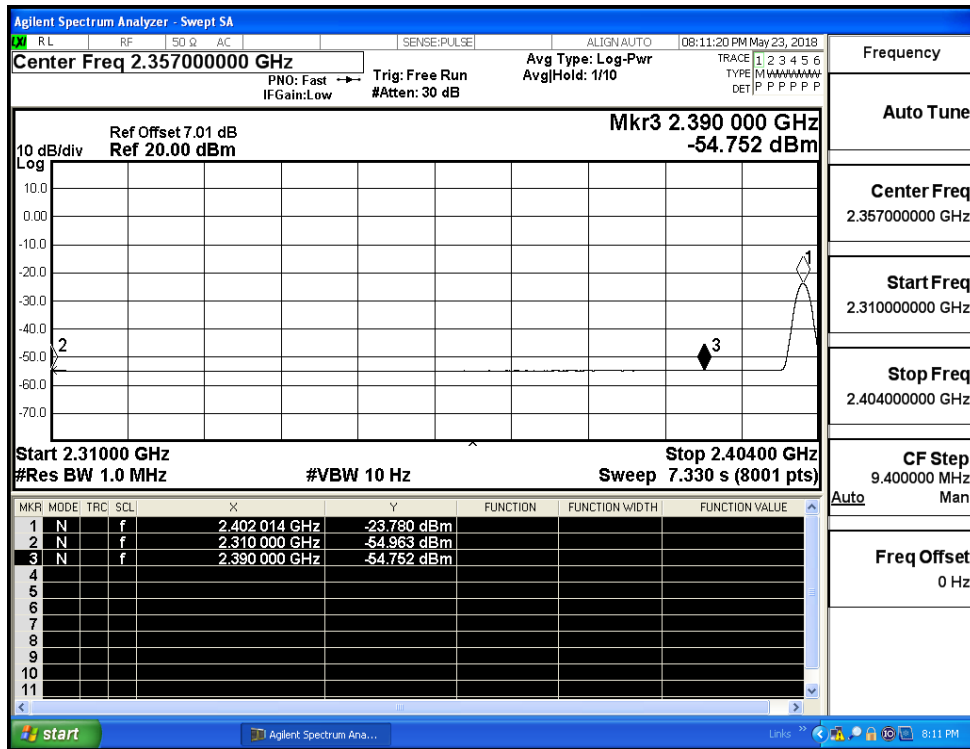
**B.7 Restrict-band band-edge measurements**

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	-44.50	2.0	0	52.73	PEAK	74	PASS
		Ant1	2310.0	-54.96	2.0	0	42.26	AV	54	PASS
		Ant1	2390.0	-44.51	2.0	0	52.72	PEAK	74	PASS
		Ant1	2390.0	-54.75	2.0	0	42.48	AV	54	PASS
	2480	Ant1	2483.5	-43.92	2.0	0	53.31	PEAK	74	PASS
		Ant1	2483.5	-54.50	2.0	0	42.72	AV	54	PASS
		Ant1	2500.0	-44.07	2.0	0	53.16	PEAK	74	PASS
		Ant1	2500.0	-54.38	2.0	0	42.85	AV	54	PASS

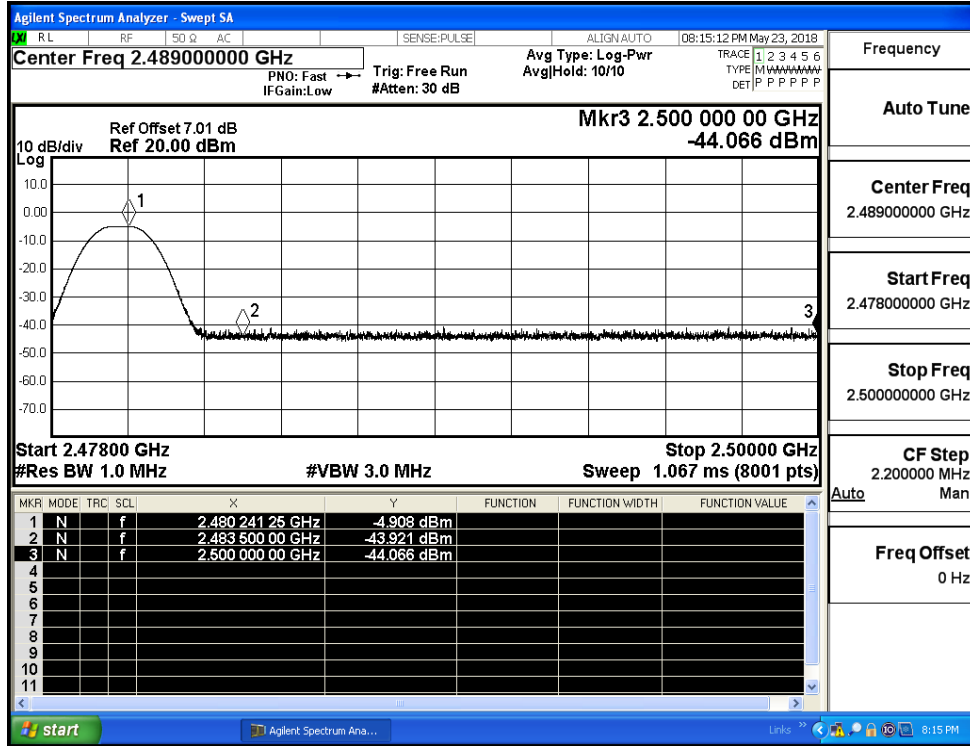
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

