

## Appendix B

### RF Test Data for BT V4.0 (BT LE) (Conducted Measurement)

Product Name: All-in-One PC

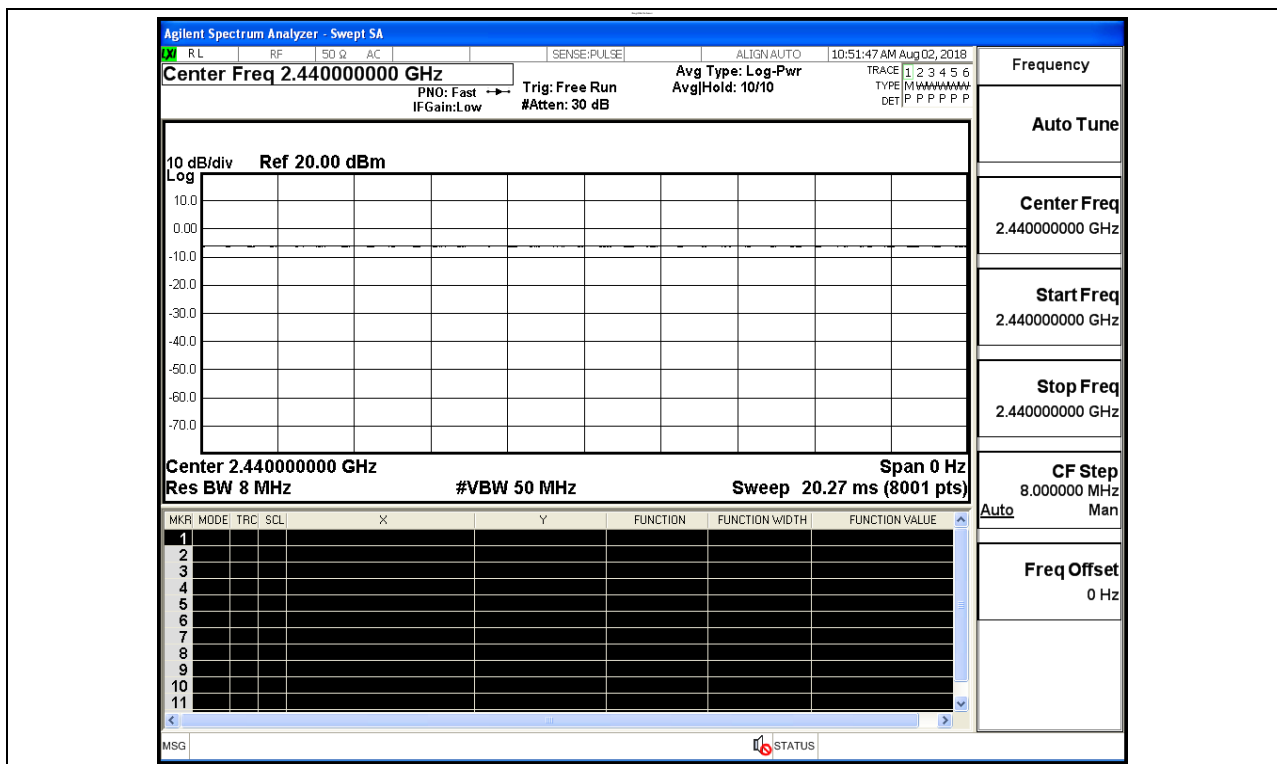
Trade Mark:   
 Test Model: EV-AIO-185-1

#### Environmental Conditions

Temperature:	24.6 °C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

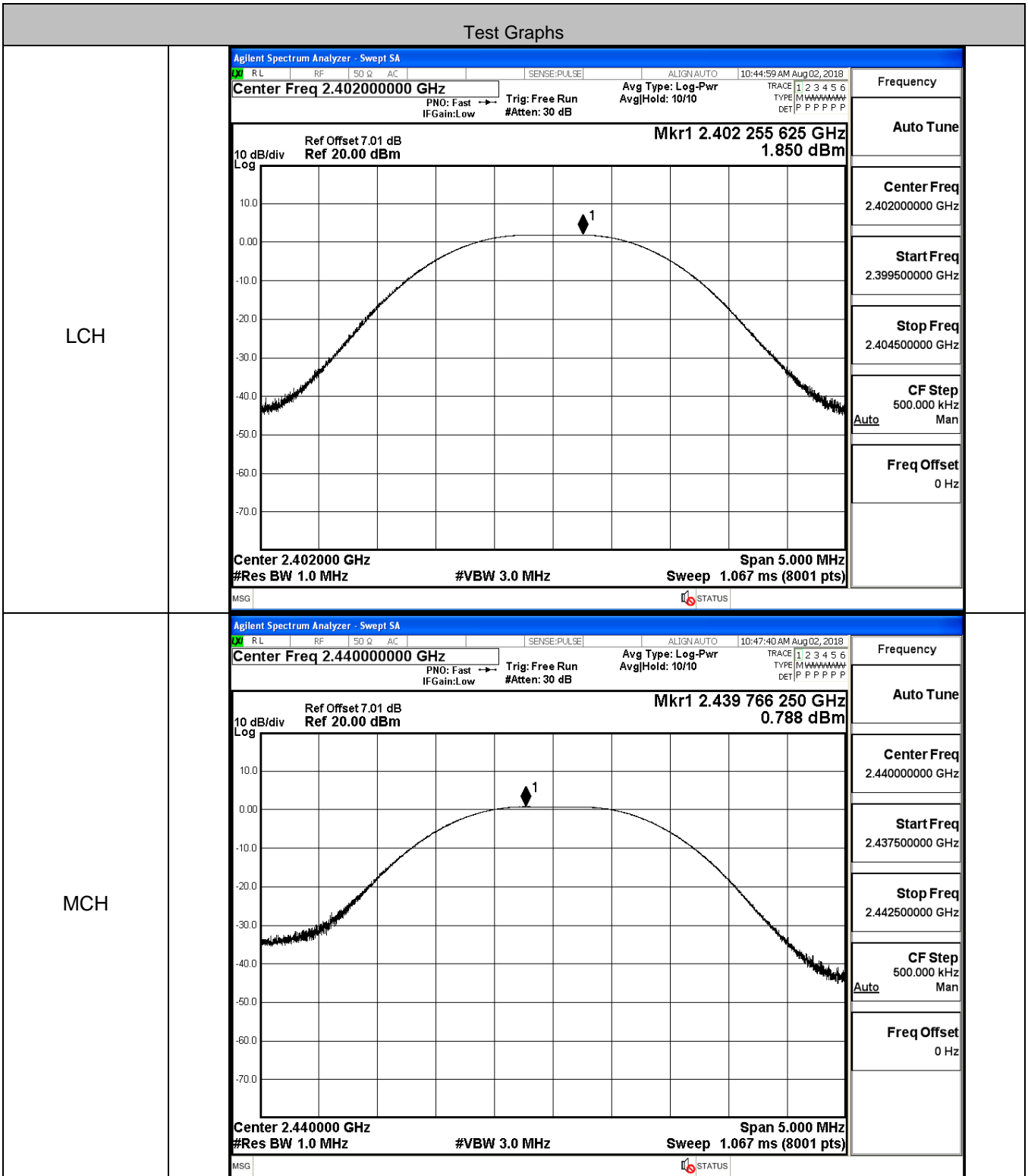
#### B.1 Duty Cycle

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



### B.2 Maximum Conducted Peak Output Power

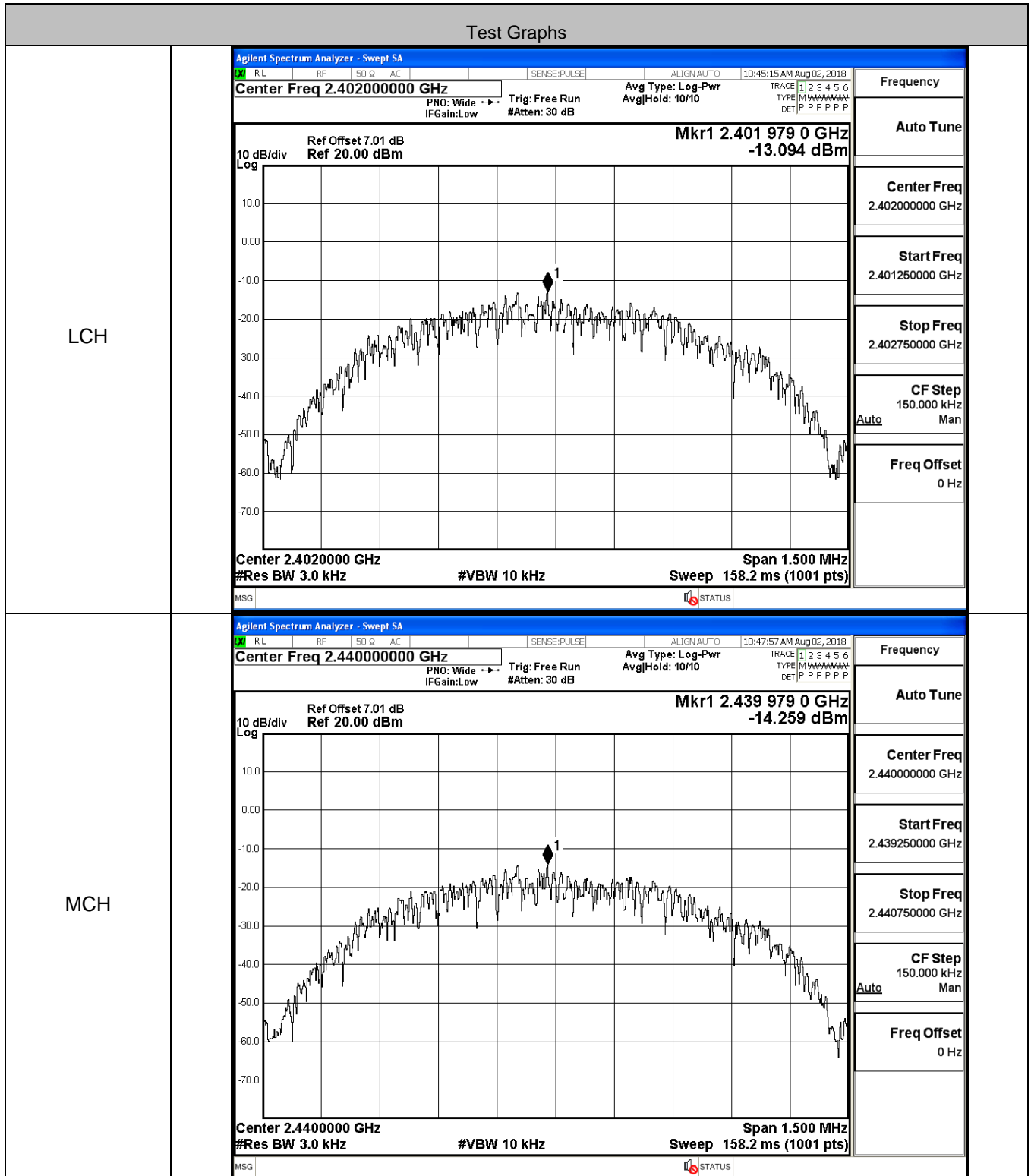
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.850	30	PASS
BT LE	MCH	0.788	30	PASS
BT LE	HCH	1.482	30	PASS



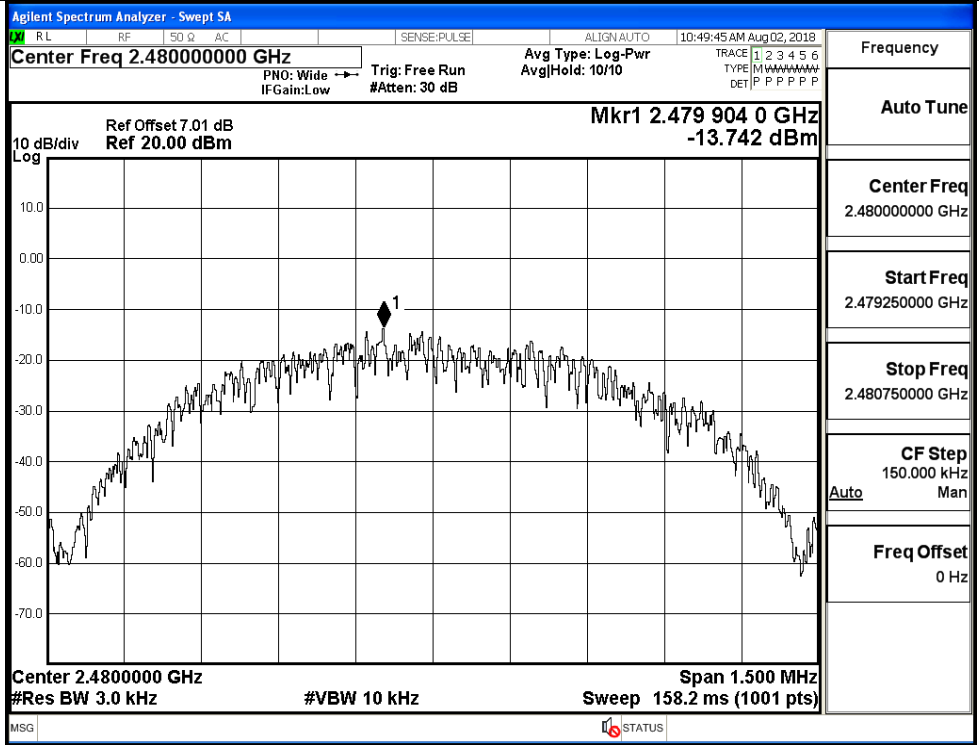


### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.094	8	PASS
BT LE	MCH	-14.259	8	PASS
BT LE	HCH	-13.742	8	PASS



HCH



**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6869	≥0.5	PASS
BT LE	MCH	0.6957	≥0.5	PASS
BT LE	HCH	0.6978	≥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:PULSE ALIGN:AUTO 10:44:44 AM Aug 02, 2018</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 7.01 dB Ref 20.00 dBm                     </div> <div style="text-align: right;">                         Mkr1 2.401994 GHz 1.0830 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">8.14 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>1.0474 MHz</b></td> </tr> <tr> <td>Transmit Freq Error</td> <td>3.924 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>686.9 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	8.14 dBm		<b>1.0474 MHz</b>				Transmit Freq Error	3.924 kHz	OBW Power	99.00 %	x dB Bandwidth	686.9 kHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	8.14 dBm															
<b>1.0474 MHz</b>																	
Transmit Freq Error	3.924 kHz	OBW Power	99.00 %														
x dB Bandwidth	686.9 kHz	x dB	-6.00 dB														
MCH	<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:PULSE ALIGN:AUTO 10:47:25 AM Aug 02, 2018</p> <p style="margin: 0;">Center Freq: 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None                      Trig: Free Run AvgHold: &gt;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 7.01 dB Ref 20.00 dBm                     </div> <div style="text-align: right;">                         Mkr1 2.4399963 GHz -0.054240 dBm                     </div> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <div>Center 2.44 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">7.03 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>1.0486 MHz</b></td> </tr> <tr> <td>Transmit Freq Error</td> <td>4.364 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>695.7 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	7.03 dBm		<b>1.0486 MHz</b>				Transmit Freq Error	4.364 kHz	OBW Power	99.00 %	x dB Bandwidth	695.7 kHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	7.03 dBm															
<b>1.0486 MHz</b>																	
Transmit Freq Error	4.364 kHz	OBW Power	99.00 %														
x dB Bandwidth	695.7 kHz	x dB	-6.00 dB														

HCH

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:PULSE	ALIGN:AUTO	10:49:14 AM Aug 02, 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 2.4799895 GHz**  
**0.63437 dBm**

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

<b>Occupied Bandwidth</b>	<b>Total Power</b>	<b>7.70 dBm</b>
<b>1.0435 MHz</b>		
Transmit Freq Error	1.958 kHz	OBW Power 99.00 %
x dB Bandwidth	697.8 kHz	x dB -6.00 dB

MSG
STATUS

Frequency

Center Freq  
2.480000000 GHz

CF Step  
300.000 kHz  
Auto Man

Freq Offset  
0 Hz

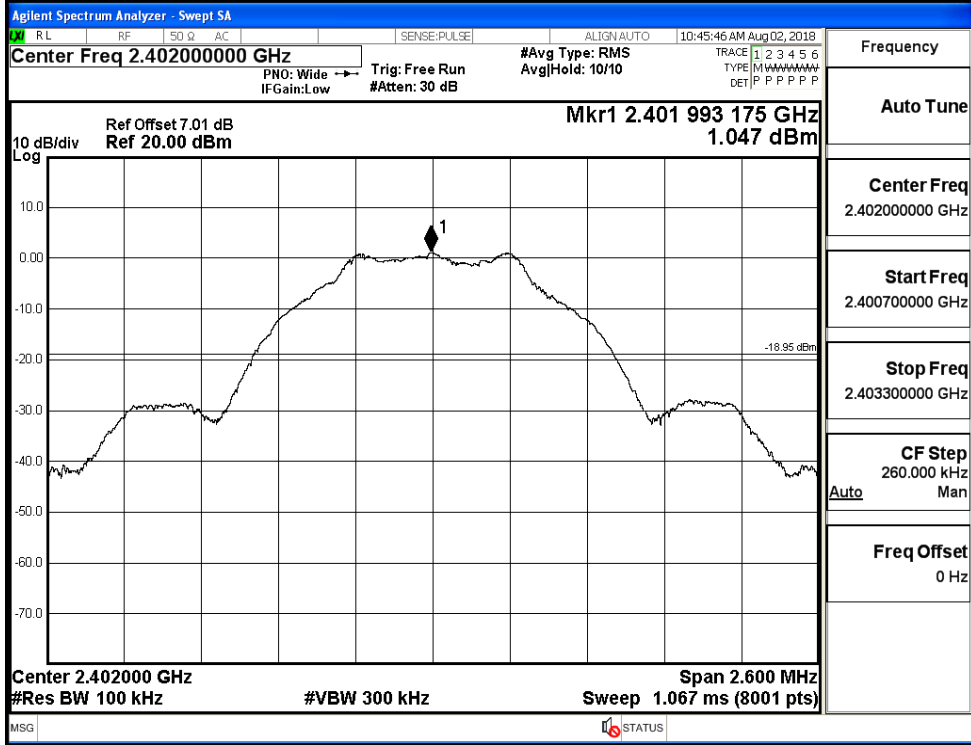
### B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.047	-41.109	-18.953	PASS
BT LE	MCH	-0.053	-45.687	-20.053	PASS
BT LE	HCH	0.648	-45.041	-19.352	PASS

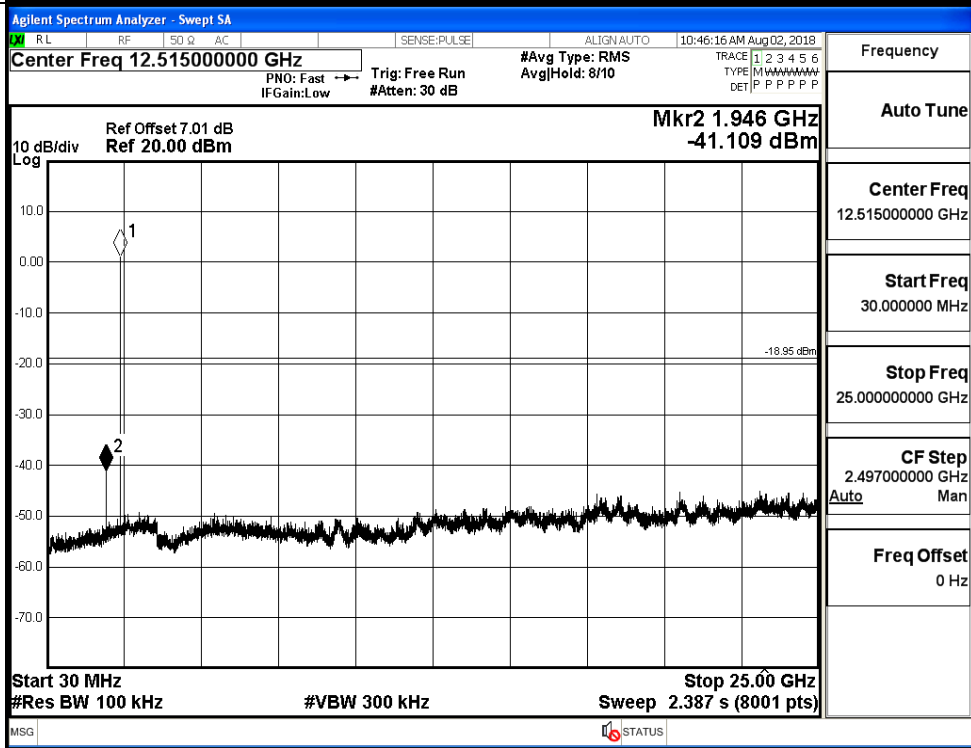


BT LE\_LCH\_Graphs

Pref/BT LE/LCH

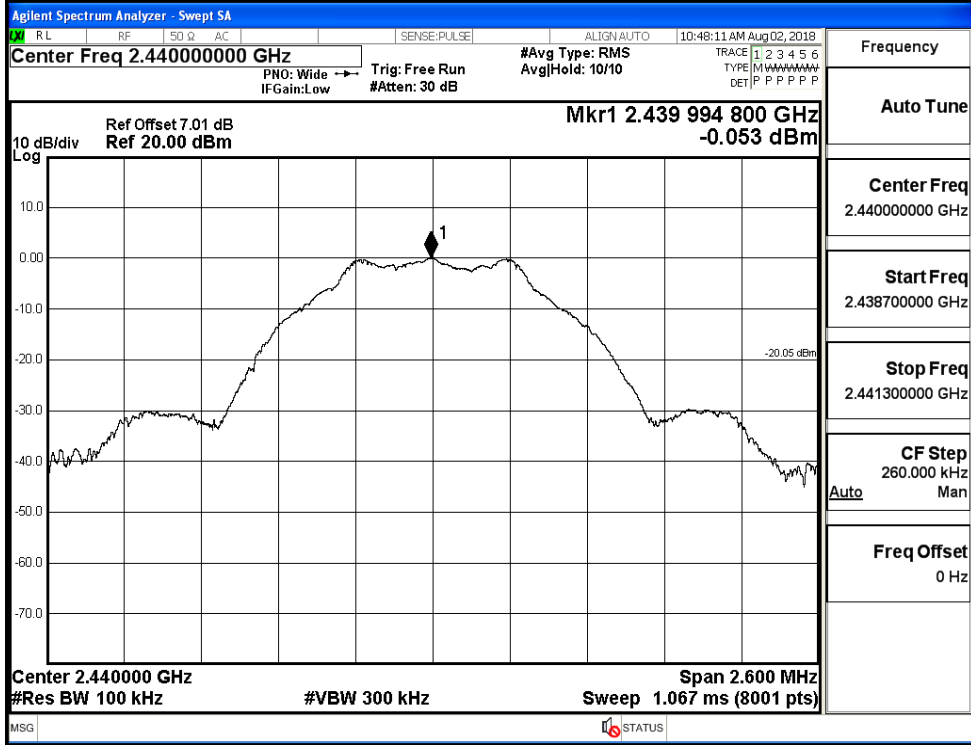


Puw/BT LE/LCH

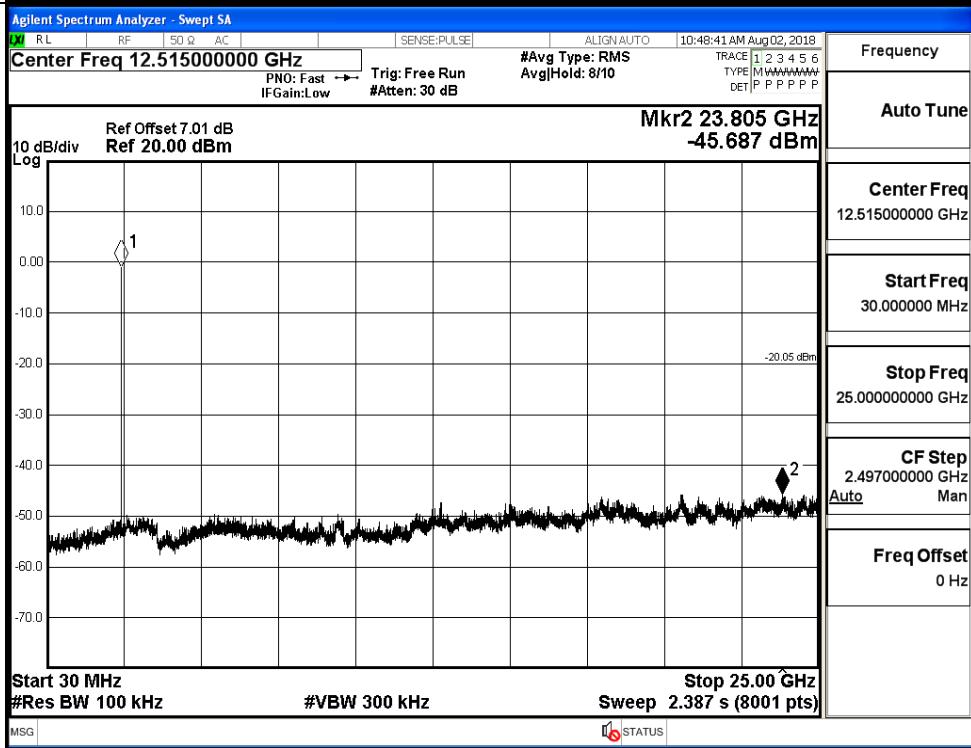


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

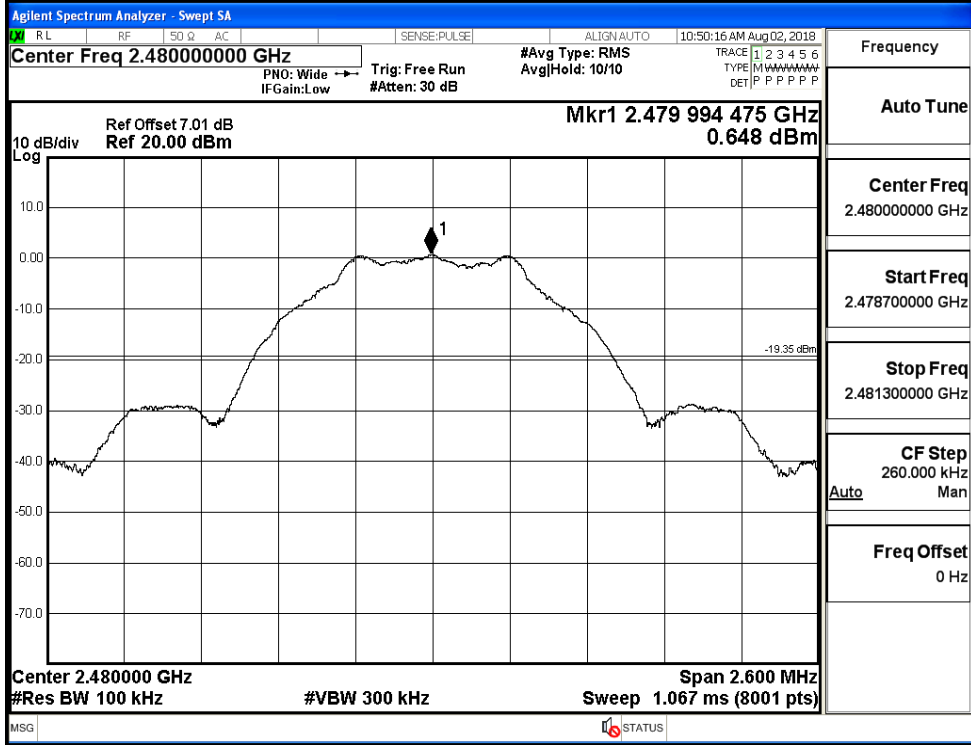


Puw/BT LE/MCH

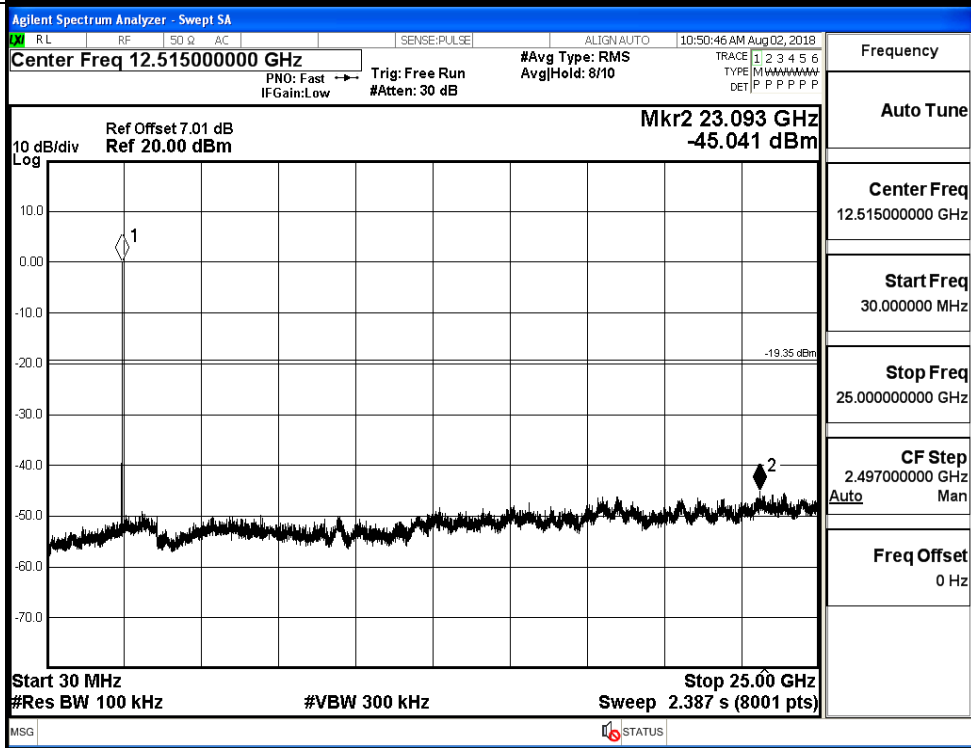


BT LE\_HCH\_Graphs

Pref/BT LE/HCH



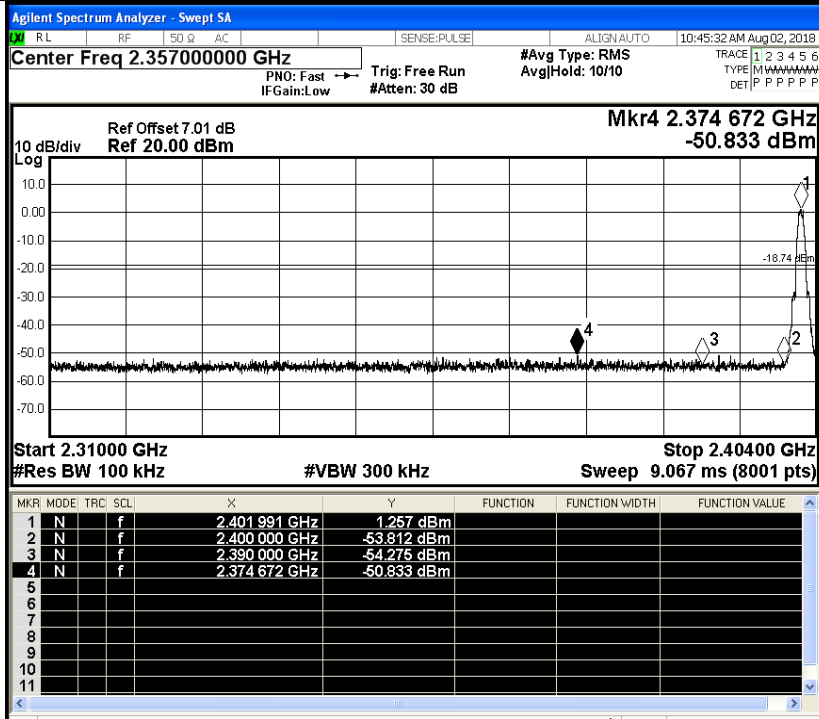
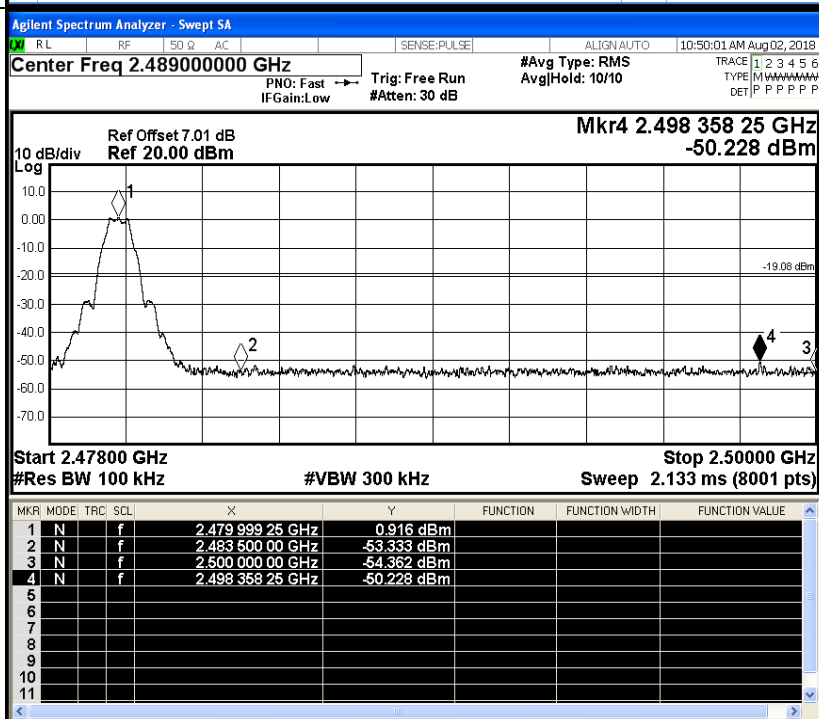
Puw/BT LE/HCH



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

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.257	-50.833	-18.74	PASS
BT LE	HCH	0.916	-50.228	-19.08	PASS

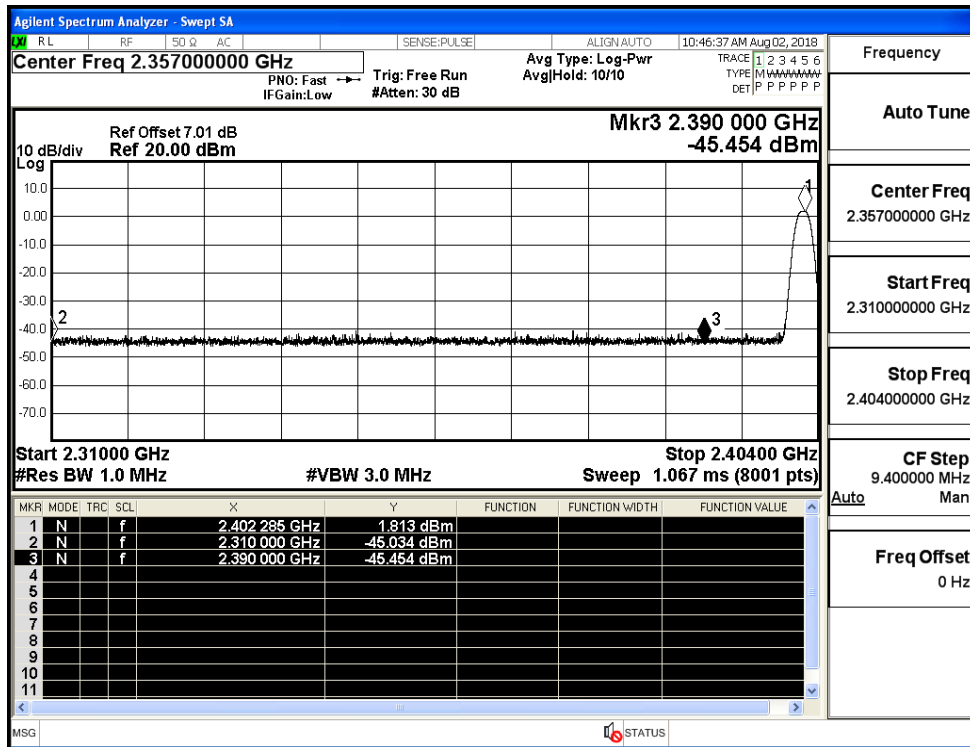
Test Graphs

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>

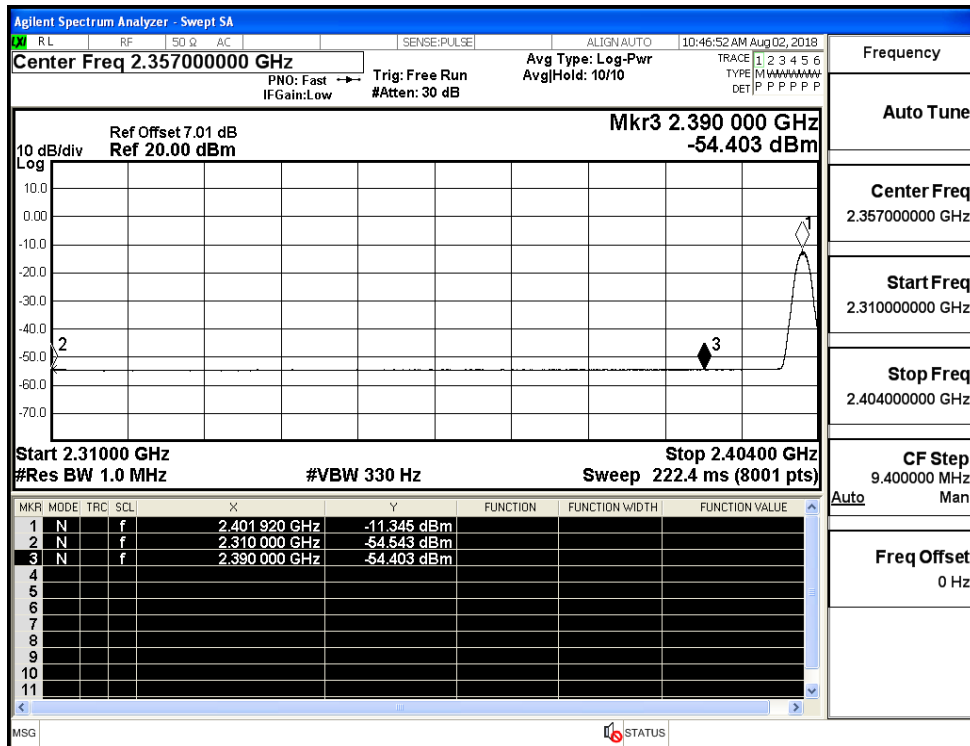
### B.7 Restrict-band band-edge measurements

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	-45.03	2.0	0	52.22	PEAK	74	PASS
		Ant1	2310.0	-54.54	2.0	0	42.71	AV	54	PASS
		Ant1	2390.0	-45.45	2.0	0	51.80	PEAK	74	PASS
		Ant1	2390.0	-54.40	2.0	0	42.85	AV	54	PASS
	2480	Ant1	2483.5	-41.58	2.0	0	55.68	PEAK	74	PASS
		Ant1	2483.5	-54.12	2.0	0	43.14	AV	54	PASS
		Ant1	2500.0	-44.04	2.0	0	53.22	PEAK	74	PASS
		Ant1	2500.0	-54.00	2.0	0	43.25	AV	54	PASS

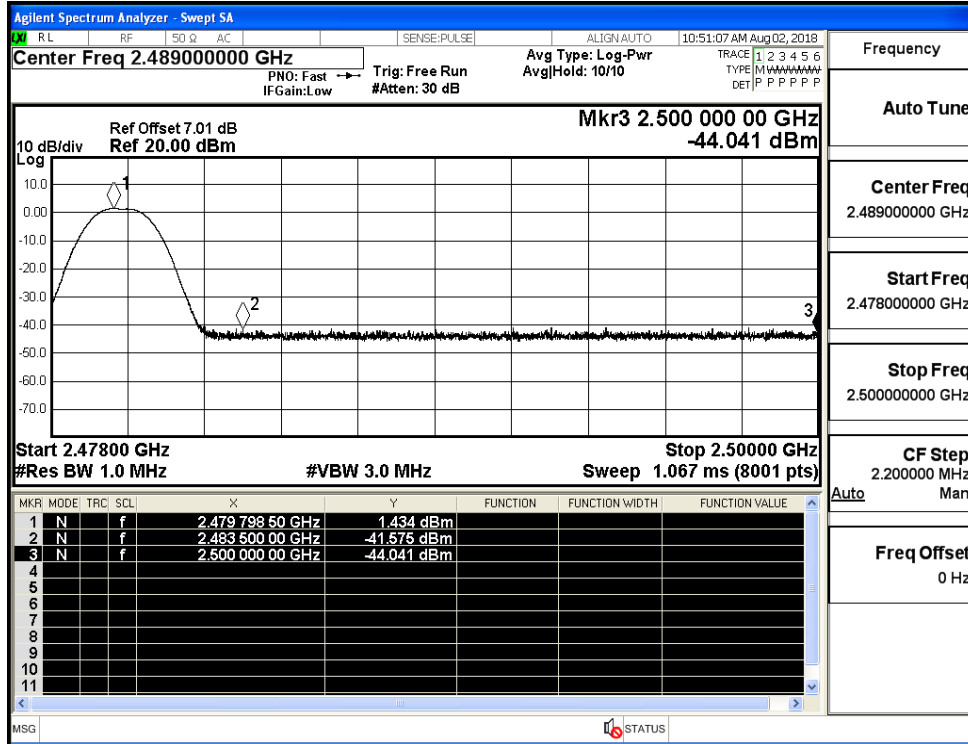
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

