

## Appendix B

### RF Test Data for BT V4.1 (BT LE) (Conducted Measurement)

Product Name: 6-Inch Rugged Windows Handheld tablet

Trade Mark: N/A

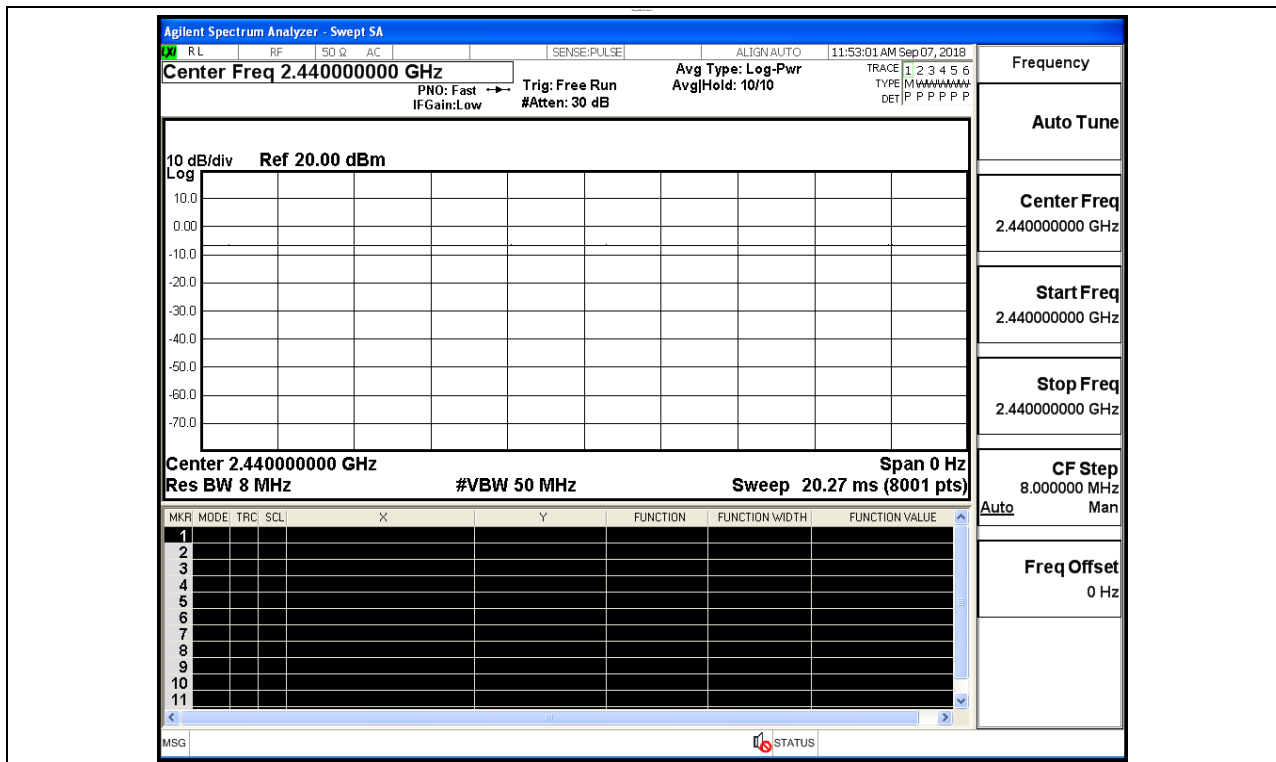
Test Model: DP10

#### Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

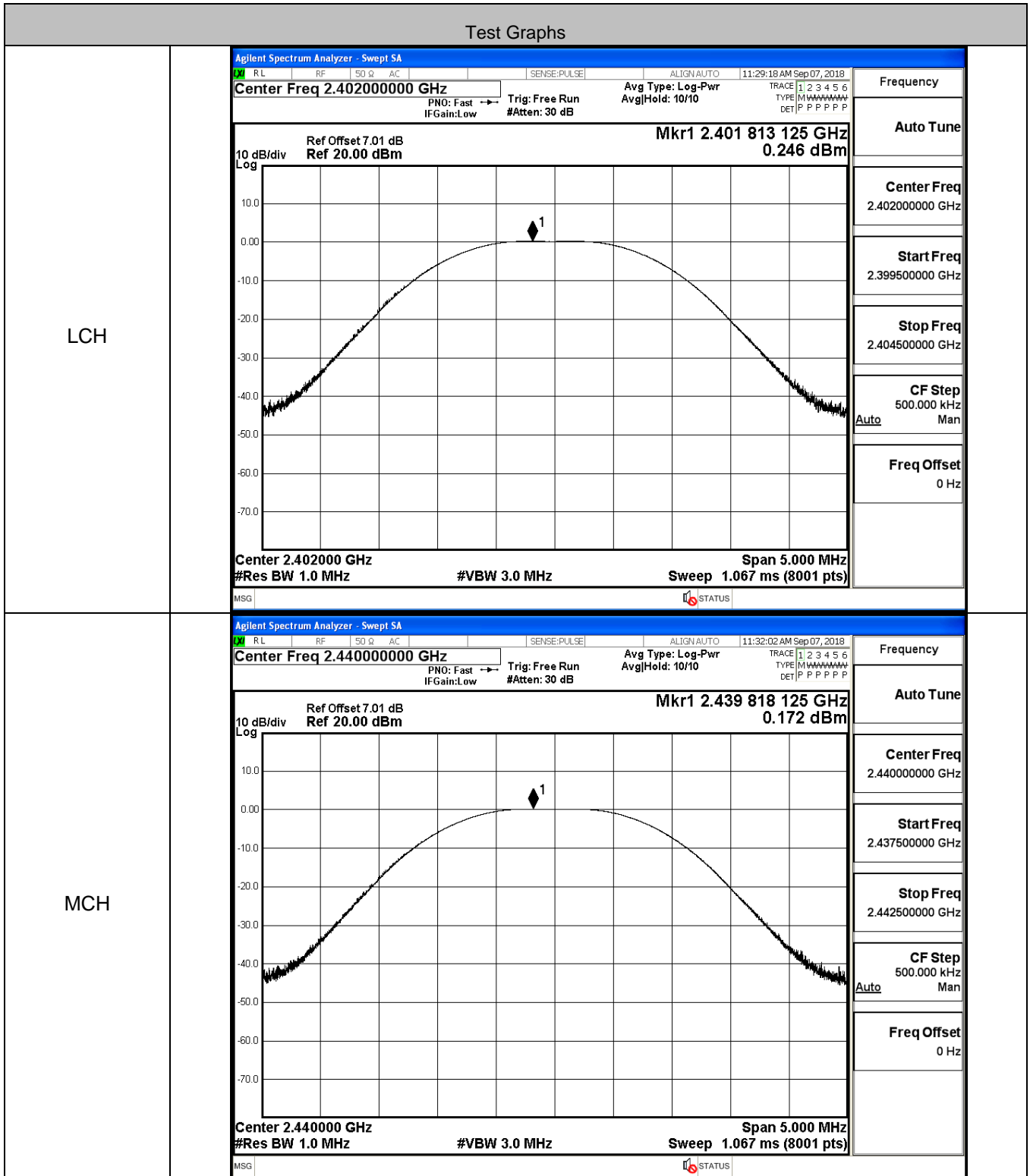
#### B.1 Duty Cycle

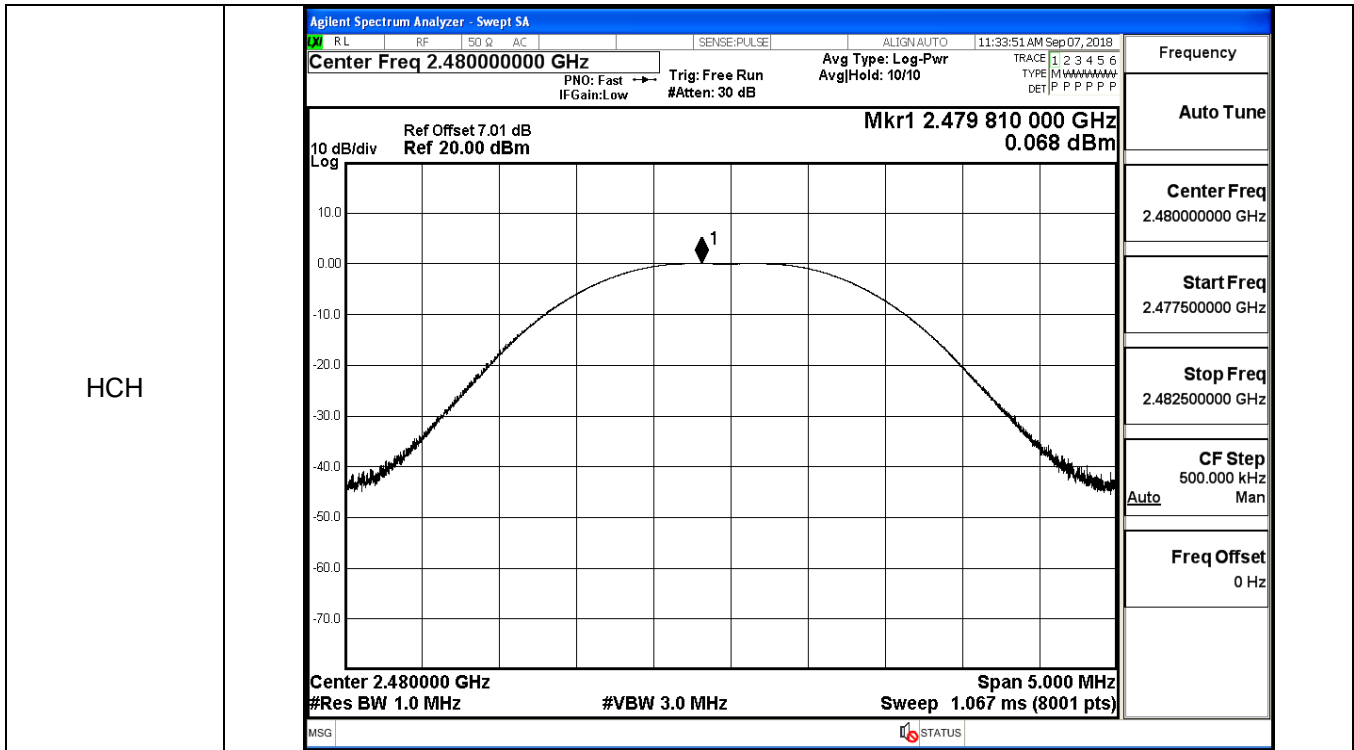
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.246	30	PASS
BT LE	MCH	0.172	30	PASS
BT LE	HCH	0.068	30	PASS

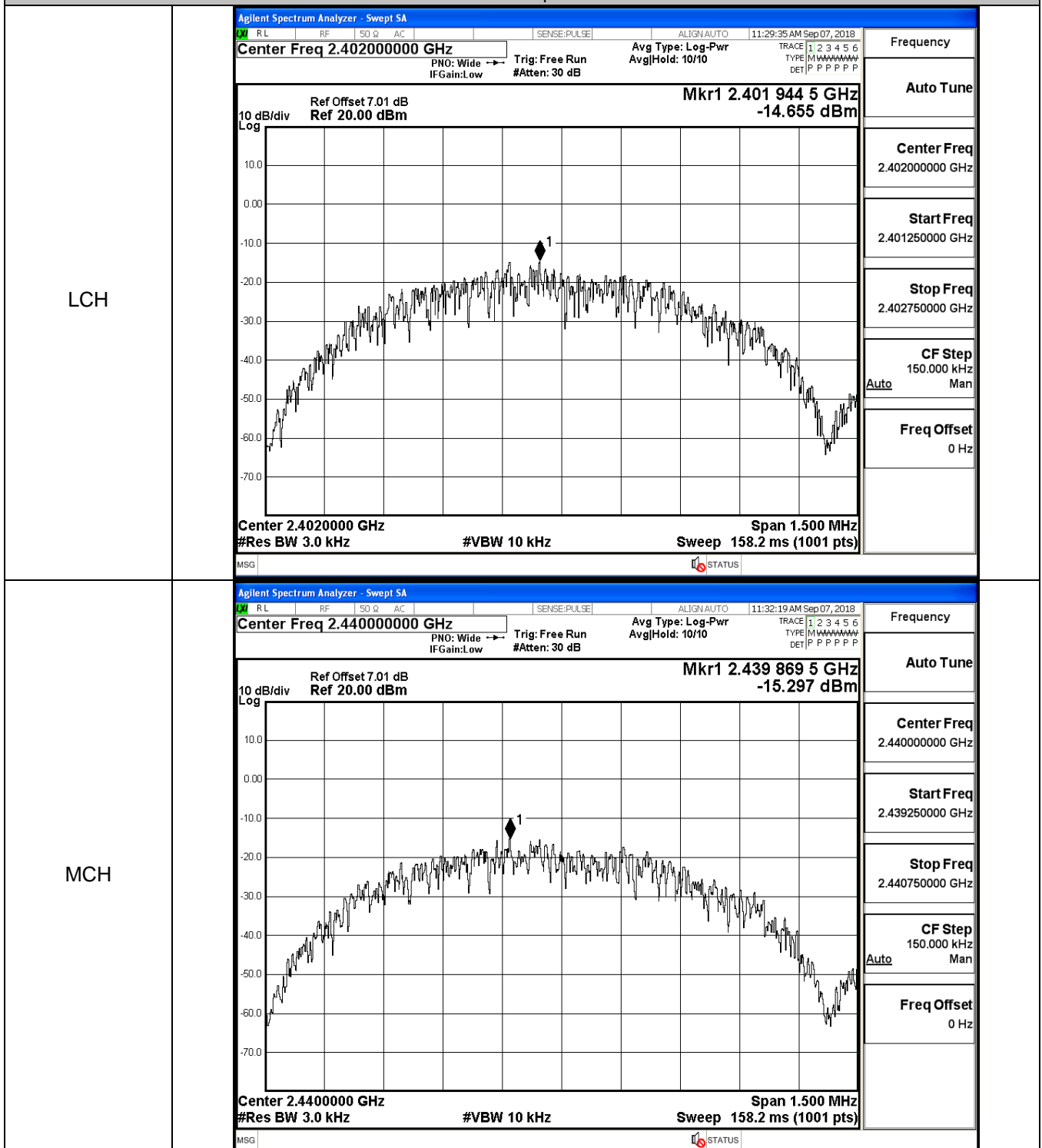




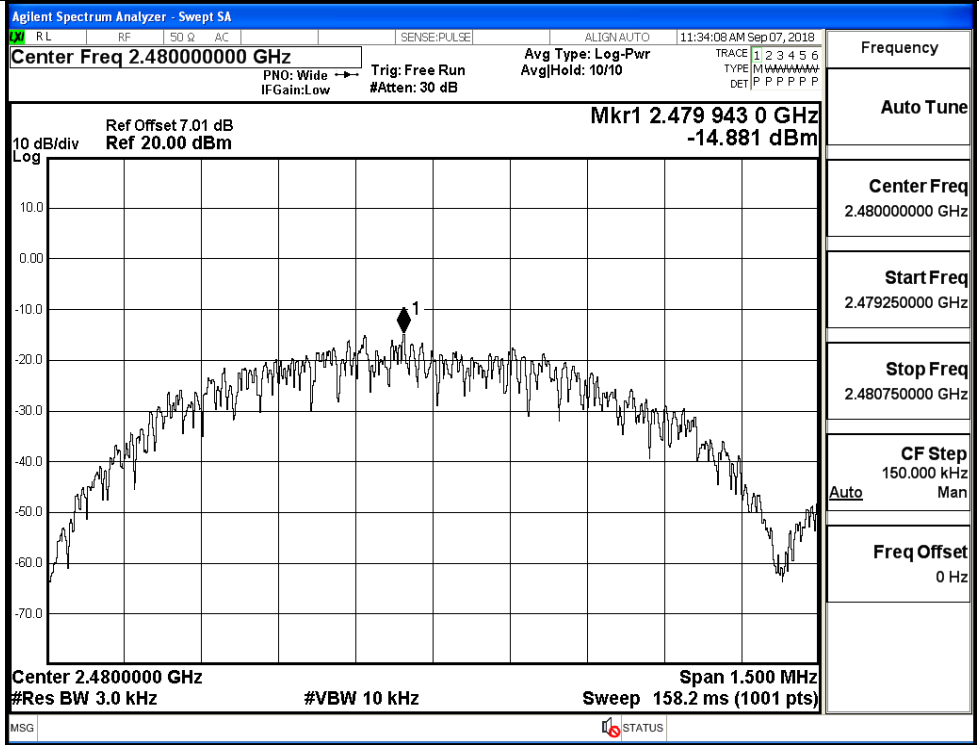
### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.655	8	PASS
BT LE	MCH	-15.297	8	PASS
BT LE	HCH	-14.881	8	PASS

#### Test Graphs

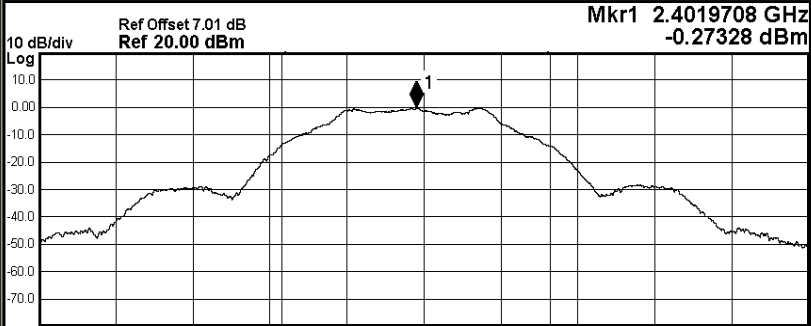
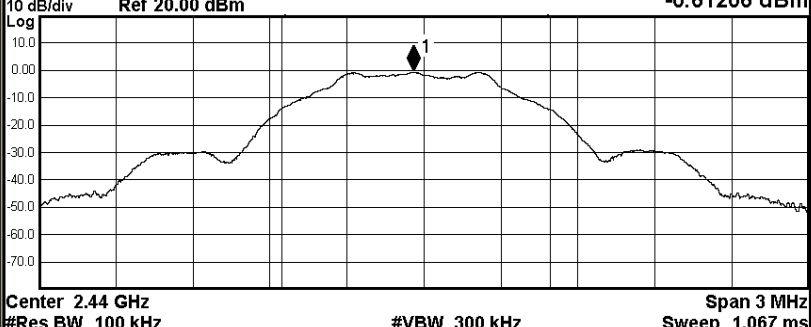


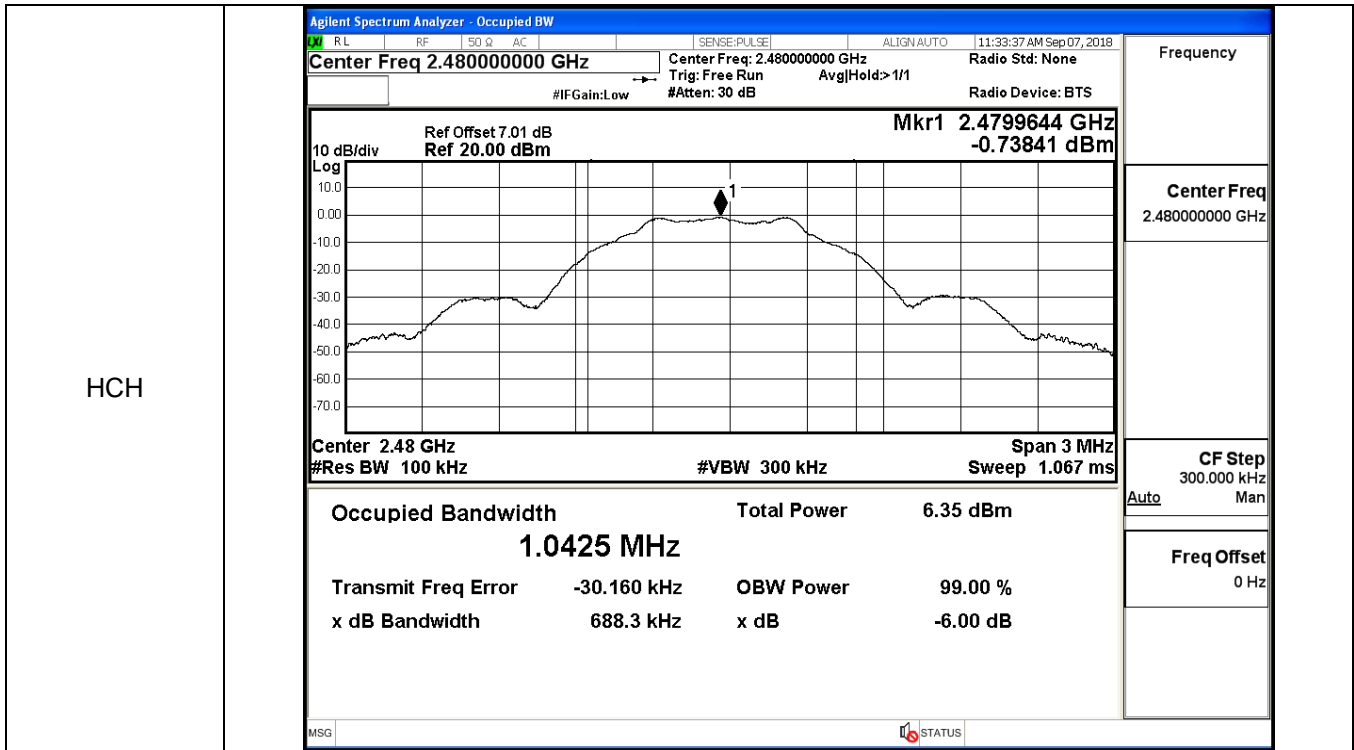
HCH



**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6860	≥0.5	PASS
BT LE	MCH	0.6862	≥0.5	PASS
BT LE	HCH	0.6883	≥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 11:29:04 AM Sep 07, 2018</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="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p style="margin: 0;">10 dB/div Ref Offset 7.01 dB Mkr1 2.4019708 GHz                              Log Ref 20.00 dBm -0.27328 dBm</p>  <p style="margin: 0;">Center 2.402 GHz Span 3 MHz                              #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table border="0" style="width: 100%; font-size: small;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>6.81 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0406 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-29.309 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>686.0 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> </div> <div style="width: 35%; border-left: 1px solid black; padding-left: 5px;"> <p style="margin: 0;">Frequency</p> <hr/> <p style="margin: 0;">Center Freq 2.402000000 GHz</p> <hr/> <p style="margin: 0;">CF Step 300.000 kHz Auto Man</p> <hr/> <p style="margin: 0;">Freq Offset 0 Hz</p> </div> </div> <p style="font-size: x-small; margin-top: 5px;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	6.81 dBm	<b>1.0406 MHz</b>			Transmit Freq Error	-29.309 kHz	OBW Power	x dB Bandwidth	686.0 kHz	x dB			99.00 %			-6.00 dB
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x dB Bandwidth	686.0 kHz	x dB																	
		99.00 %																	
		-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 11:31:47 AM Sep 07, 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="width: 60%;"> <p style="margin: 0;">10 dB/div Ref Offset 7.01 dB Mkr1 2.4399591 GHz                              Log Ref 20.00 dBm -0.61206 dBm</p>  <p style="margin: 0;">Center 2.44 GHz Span 3 MHz                              #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table border="0" style="width: 100%; font-size: small;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>6.45 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0440 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-29.794 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>686.2 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> </div> <div style="width: 35%; border-left: 1px solid black; padding-left: 5px;"> <p style="margin: 0;">Frequency</p> <hr/> <p style="margin: 0;">Center Freq 2.440000000 GHz</p> <hr/> <p style="margin: 0;">CF Step 300.000 kHz Auto Man</p> <hr/> <p style="margin: 0;">Freq Offset 0 Hz</p> </div> </div> <p style="font-size: x-small; margin-top: 5px;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	6.45 dBm	<b>1.0440 MHz</b>			Transmit Freq Error	-29.794 kHz	OBW Power	x dB Bandwidth	686.2 kHz	x dB			99.00 %			-6.00 dB
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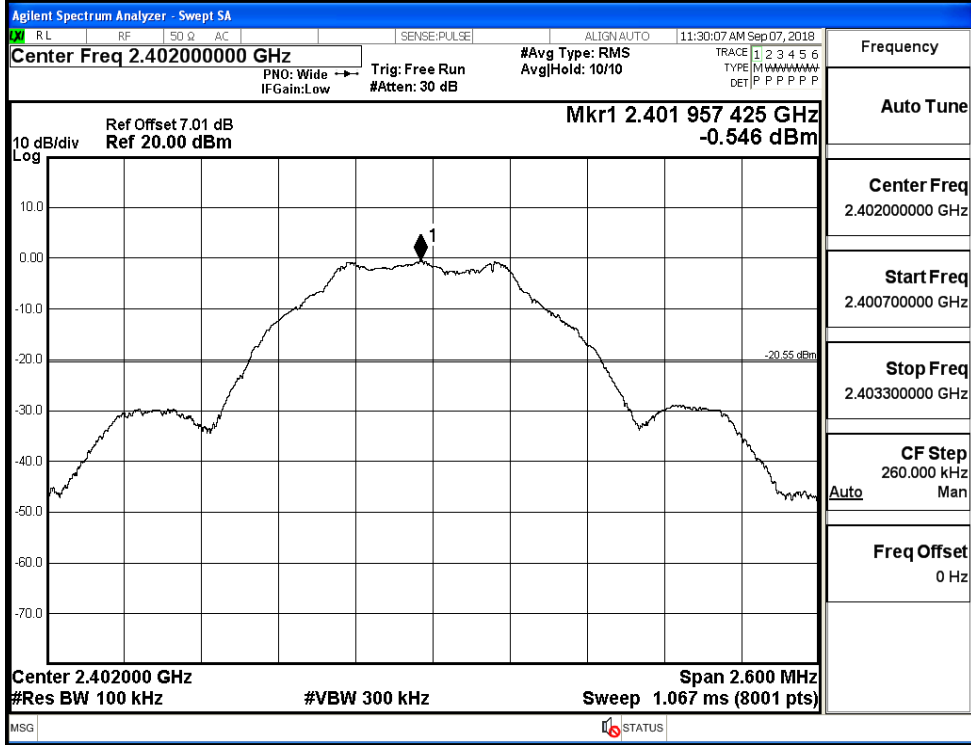
**B.5 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.546	-45.501	-20.546	PASS
BT LE	MCH	-0.628	-45.159	-20.628	PASS
BT LE	HCH	-0.714	-45.493	-20.714	PASS

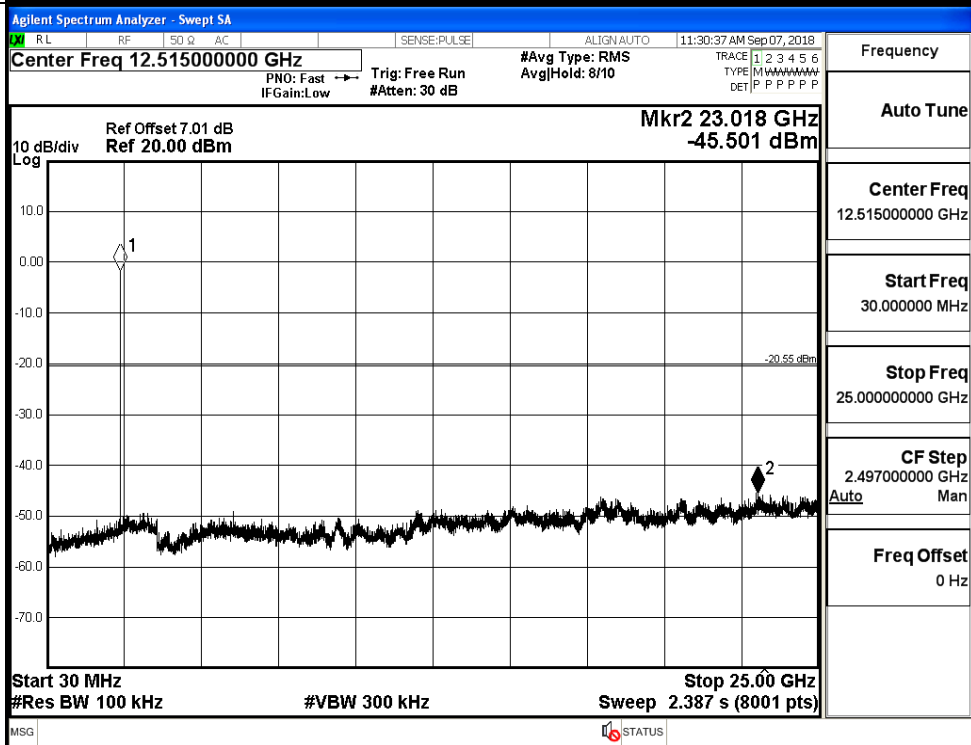


BT LE\_LCH\_Graphs

Pref/BT LE/LCH

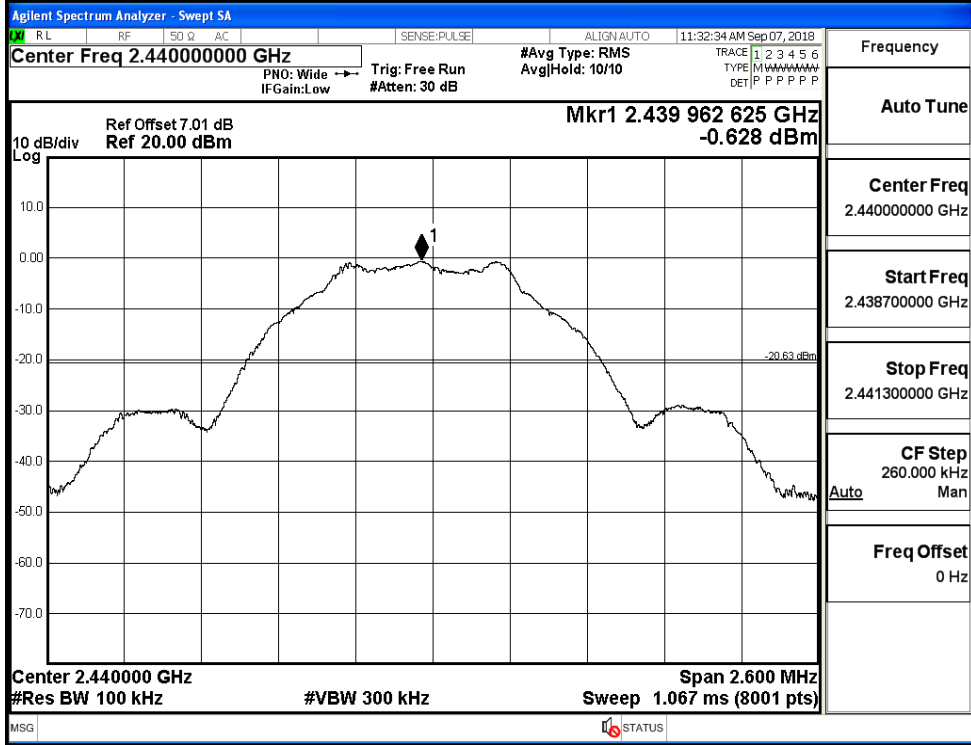


Puw/BT LE/LCH

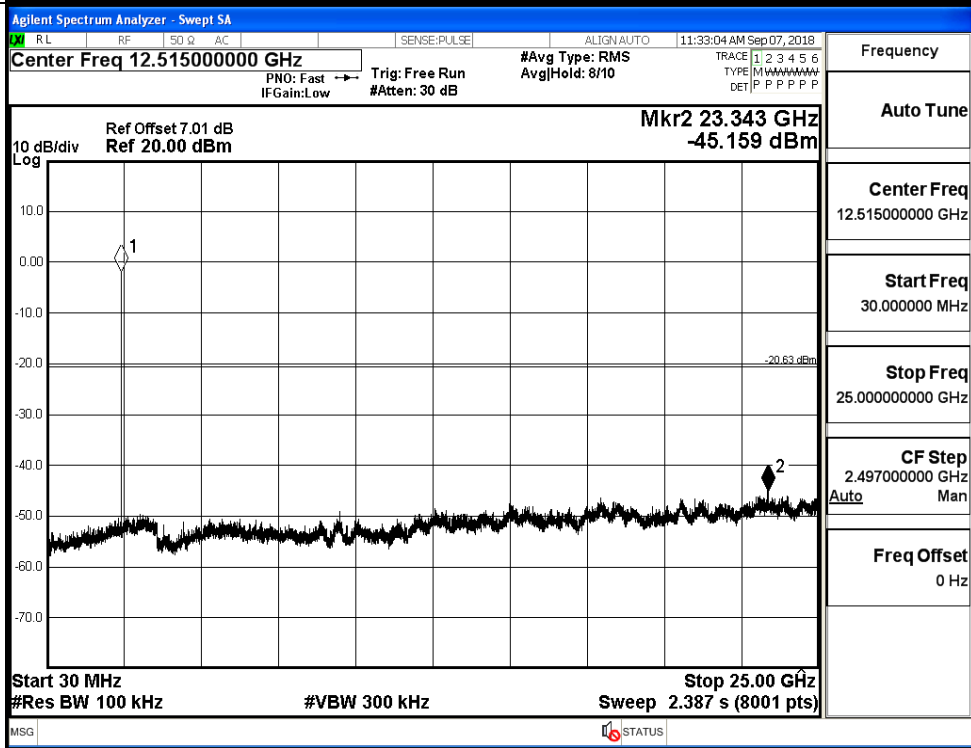


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

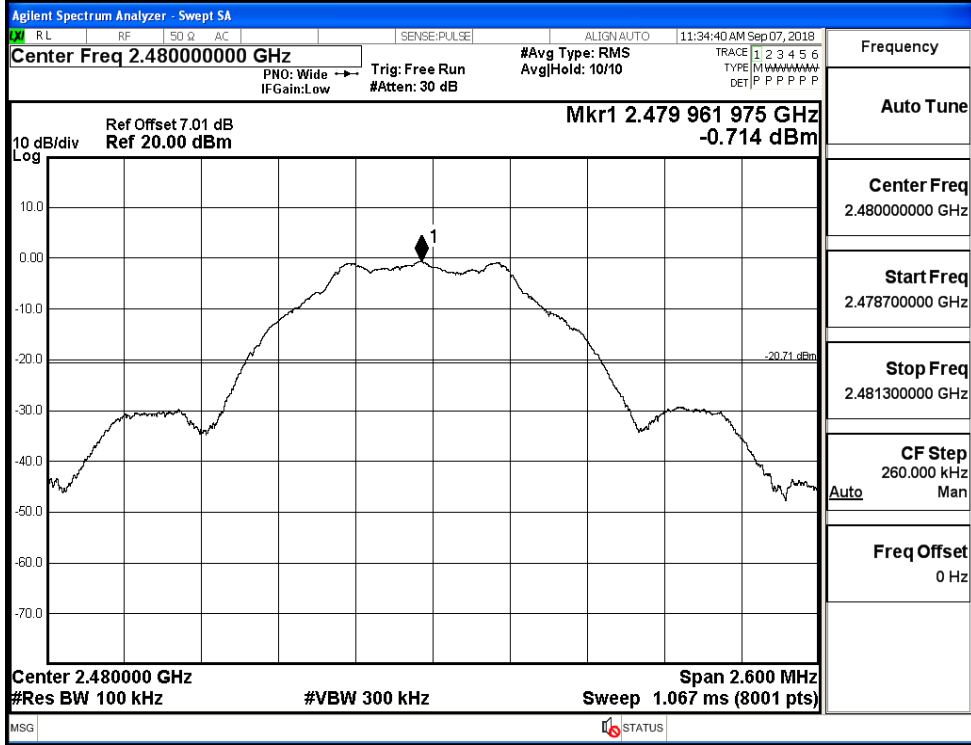


Puw/BT LE/MCH

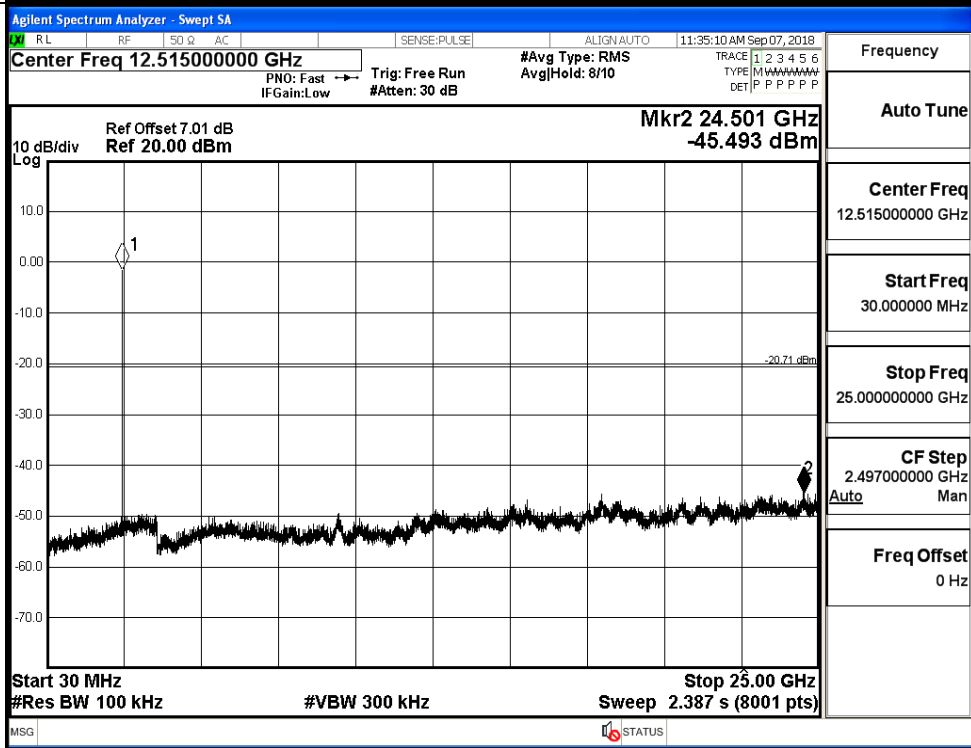


BT LE\_HCH\_Graphs

Pref/BT LE/HCH



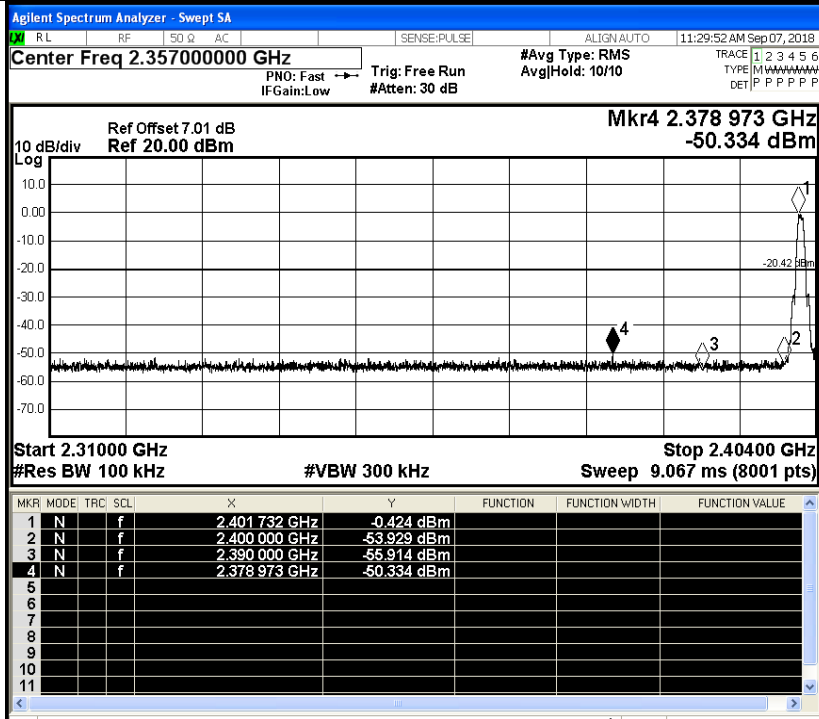
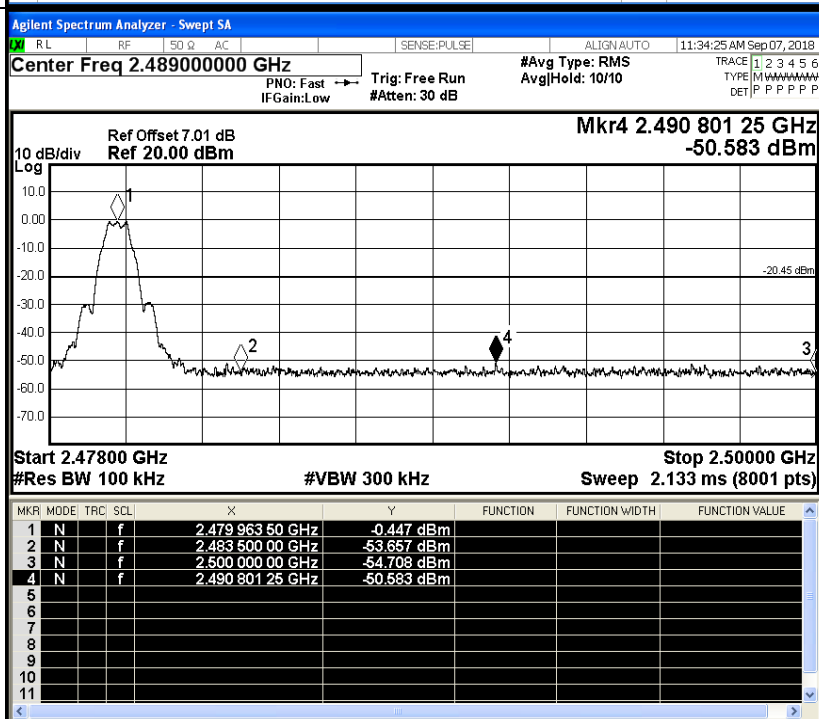
Puw/BT LE/HCH



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

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.424	-50.334	-20.42	PASS
BT LE	HCH	-0.447	-50.583	-20.45	PASS

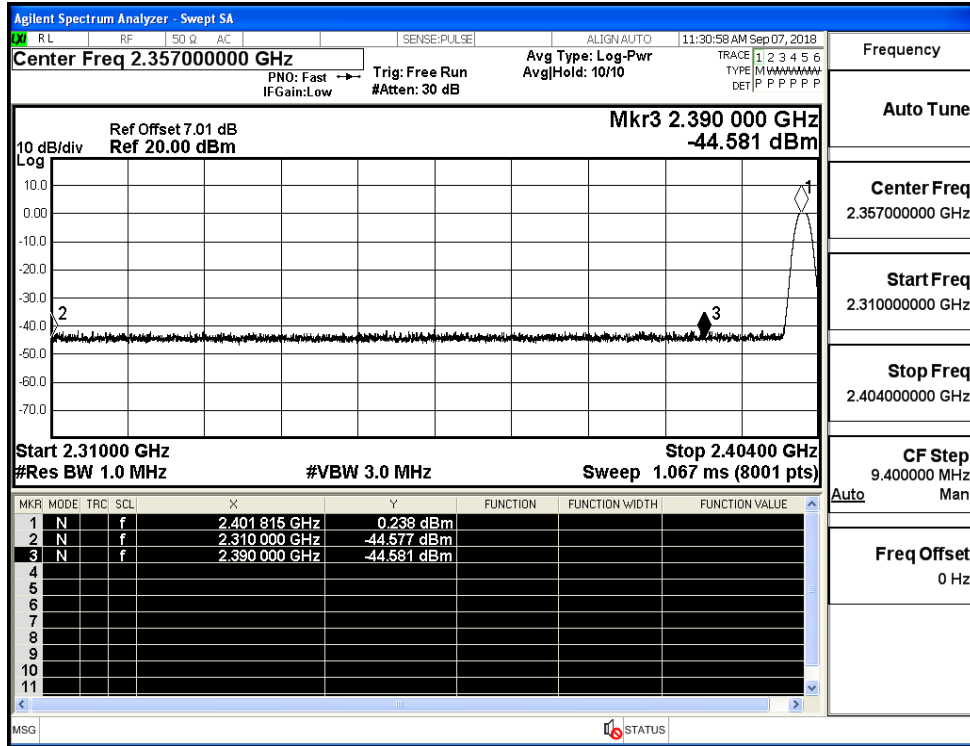
Test Graphs

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>

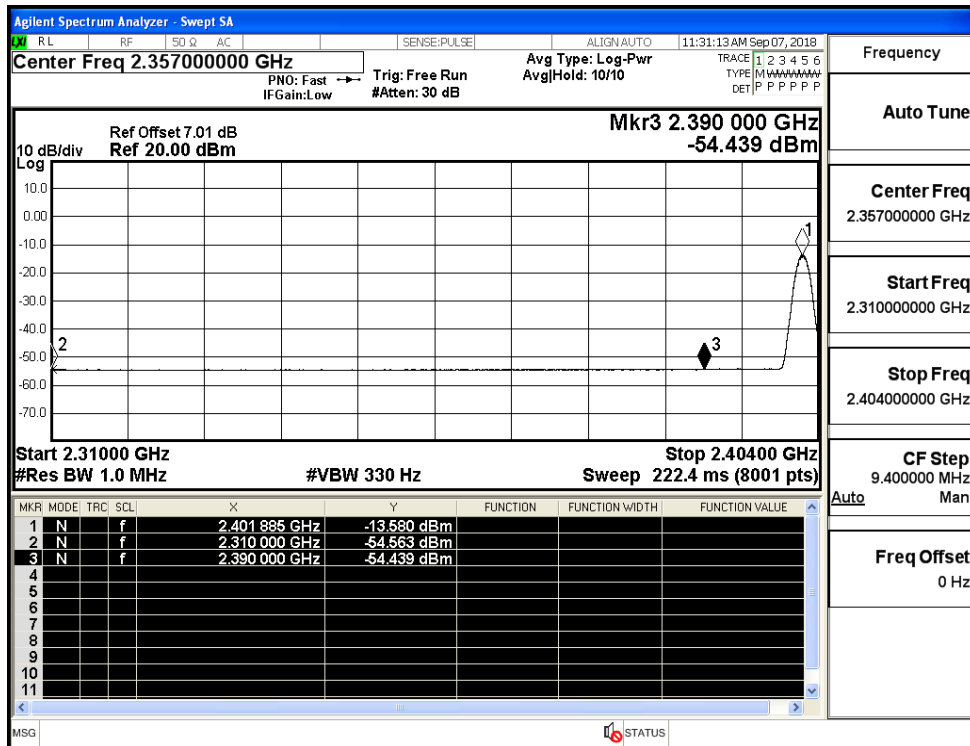
## B.7 Restrict-band band-edge measurements

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	-44.58	2.50	0	53.151	PEAK	74	PASS
		Ant1	2310.0	-54.56	2.50	0	43.165	AV	54	PASS
		Ant1	2390.0	-44.58	2.50	0	53.147	PEAK	74	PASS
		Ant1	2390.0	-54.44	2.50	0	43.289	AV	54	PASS
	2480	Ant1	2483.5	-44.59	2.50	0	53.141	PEAK	74	PASS
		Ant1	2483.5	-54.09	2.50	0	43.641	AV	54	PASS
		Ant1	2500.0	-43.17	2.50	0	54.557	PEAK	74	PASS
		Ant1	2500.0	-53.96	2.50	0	43.771	AV	54	PASS

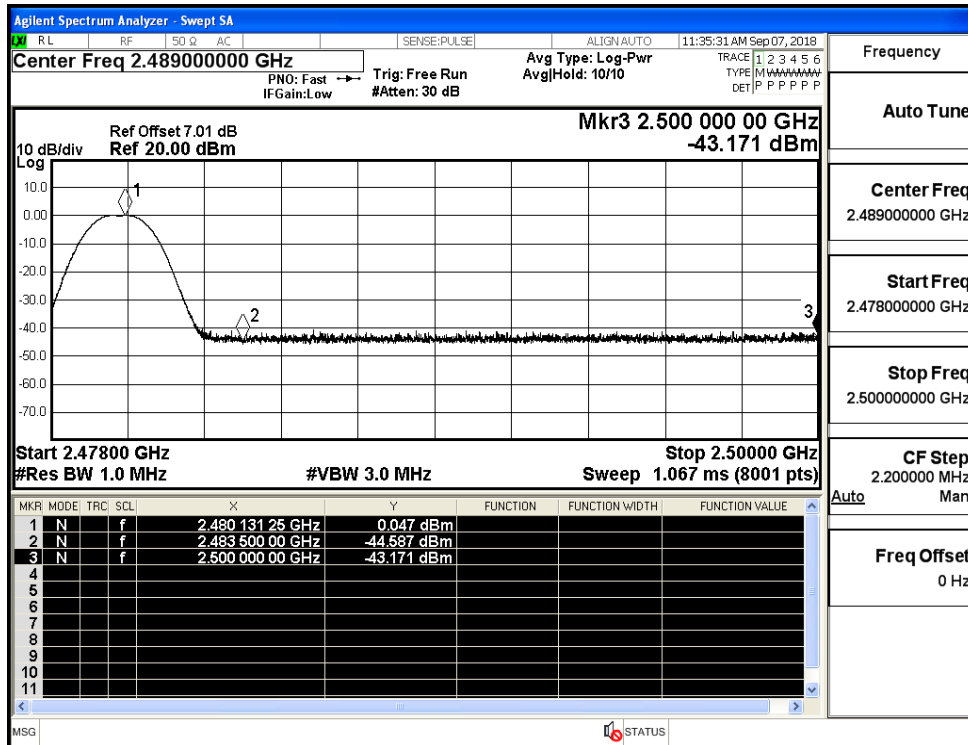
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

