

## Appendix B

### RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

Product Name: Smartphone

Trade Mark: Win

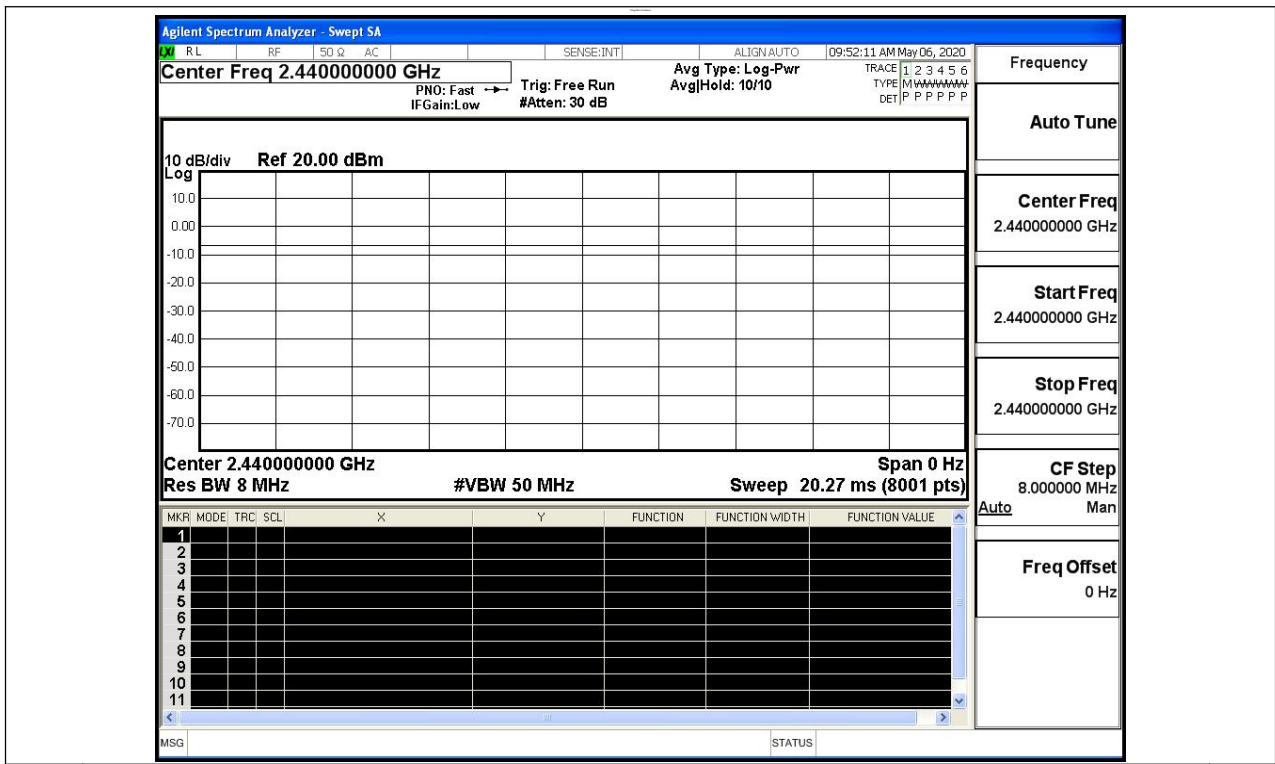
Test Model: M5

#### Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	LI HUAN
Supervised by:	Tom.Liu

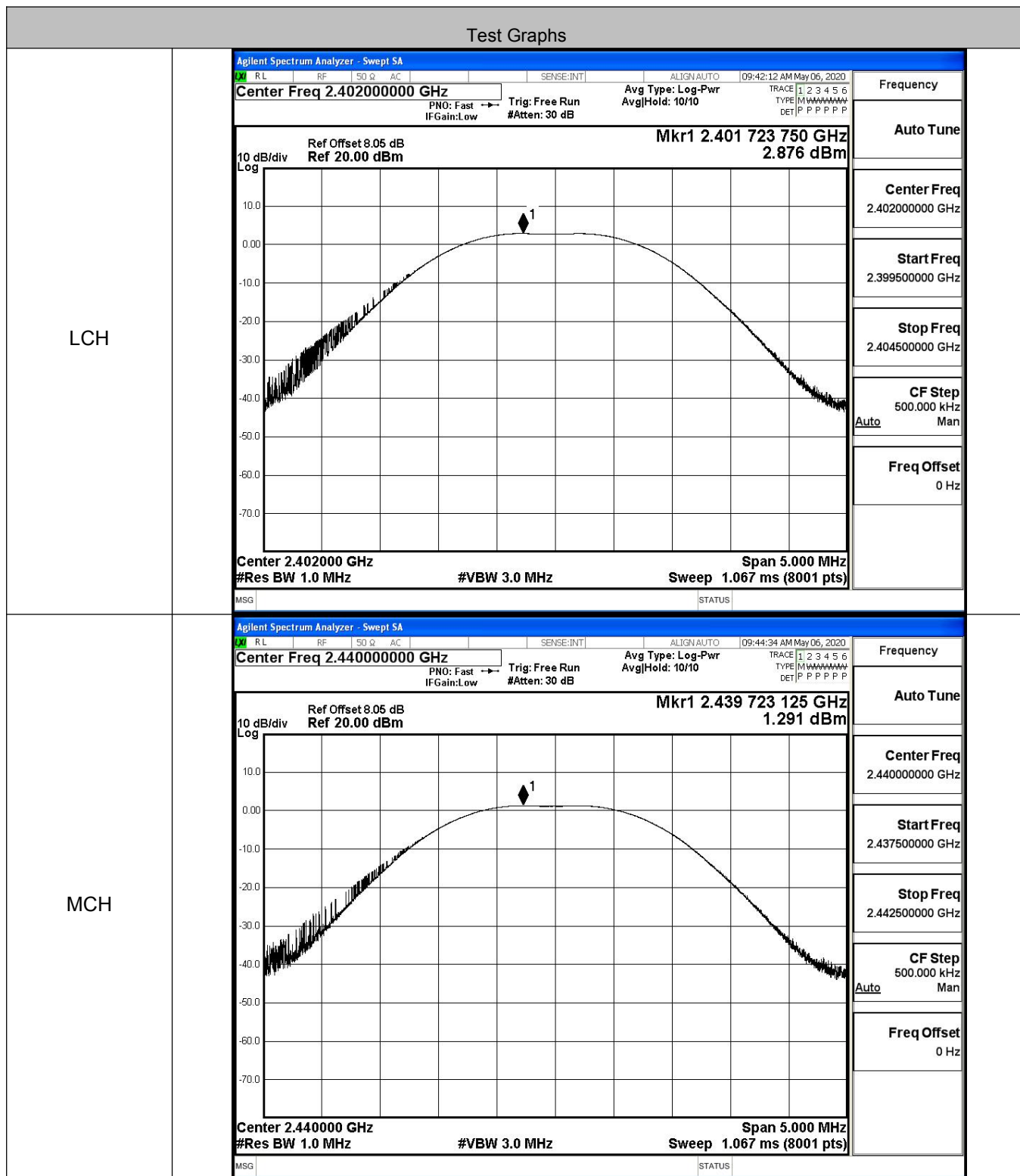
#### B.1 Duty Cycle

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

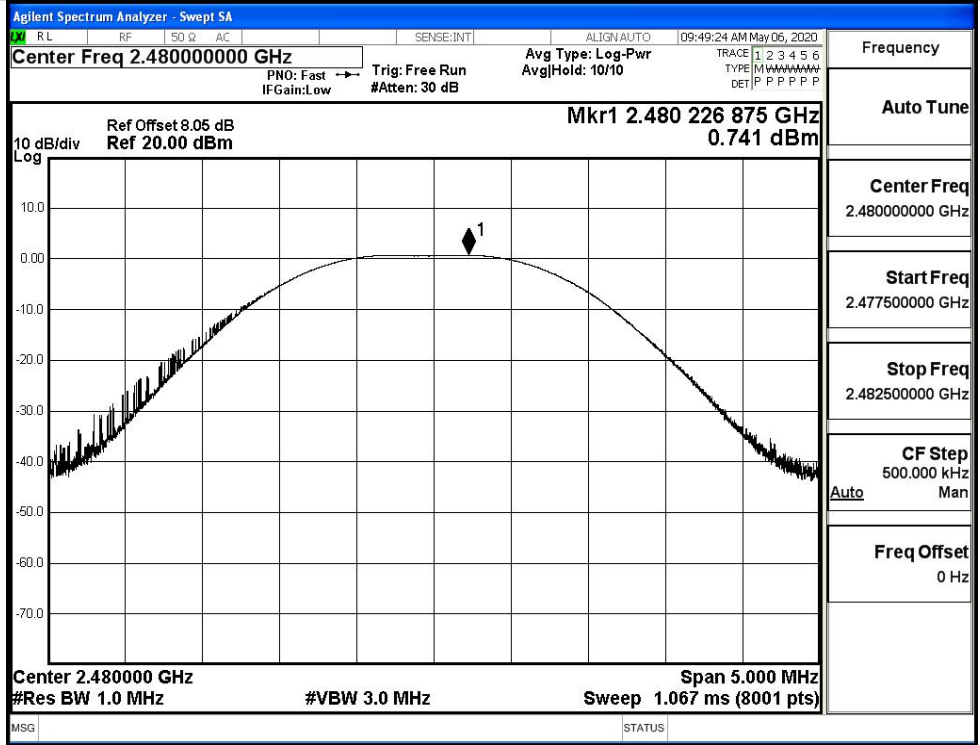


### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.876	30	PASS
BT LE	MCH	1.291	30	PASS
BT LE	HCH	0.741	30	PASS



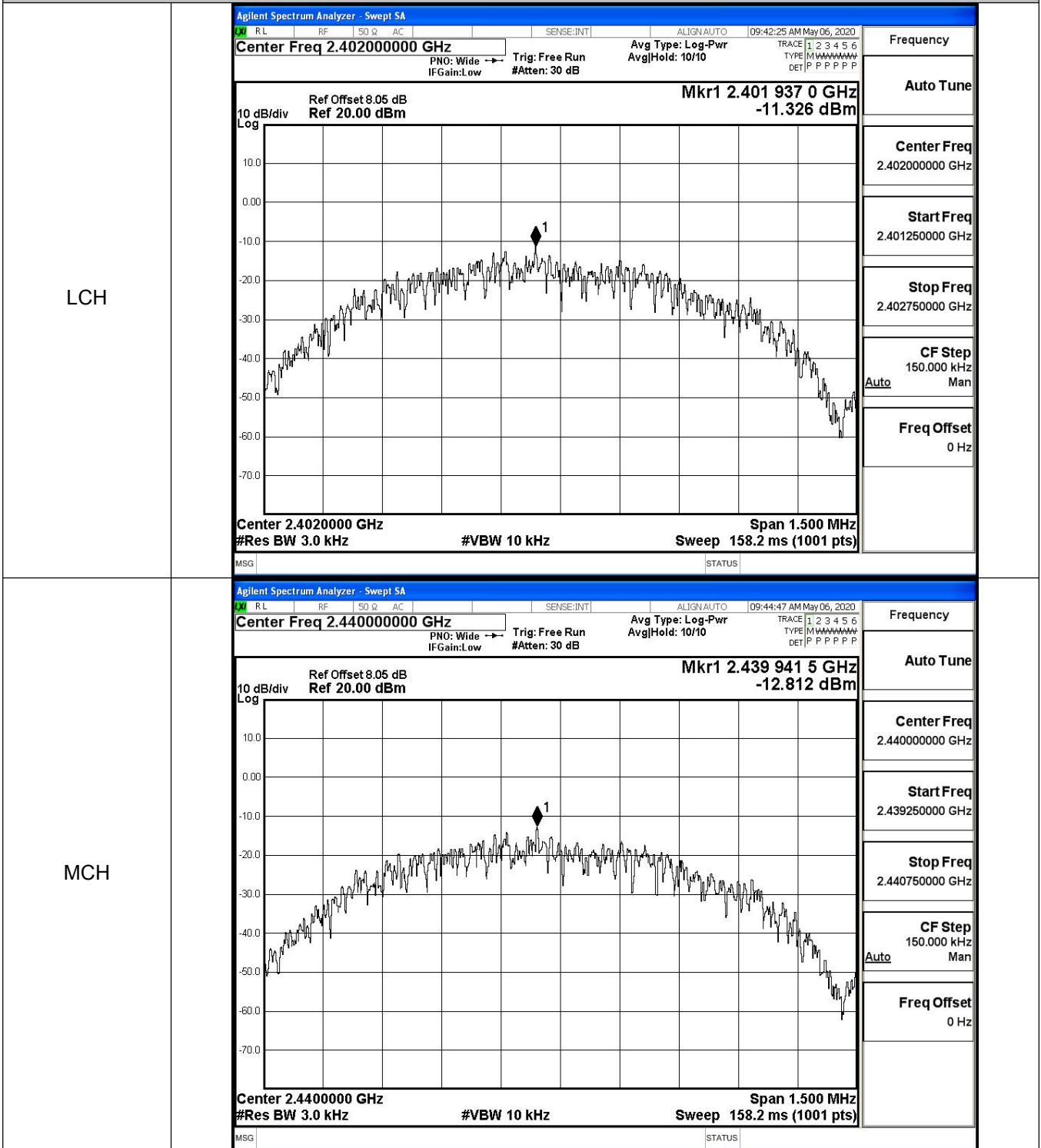
HCH



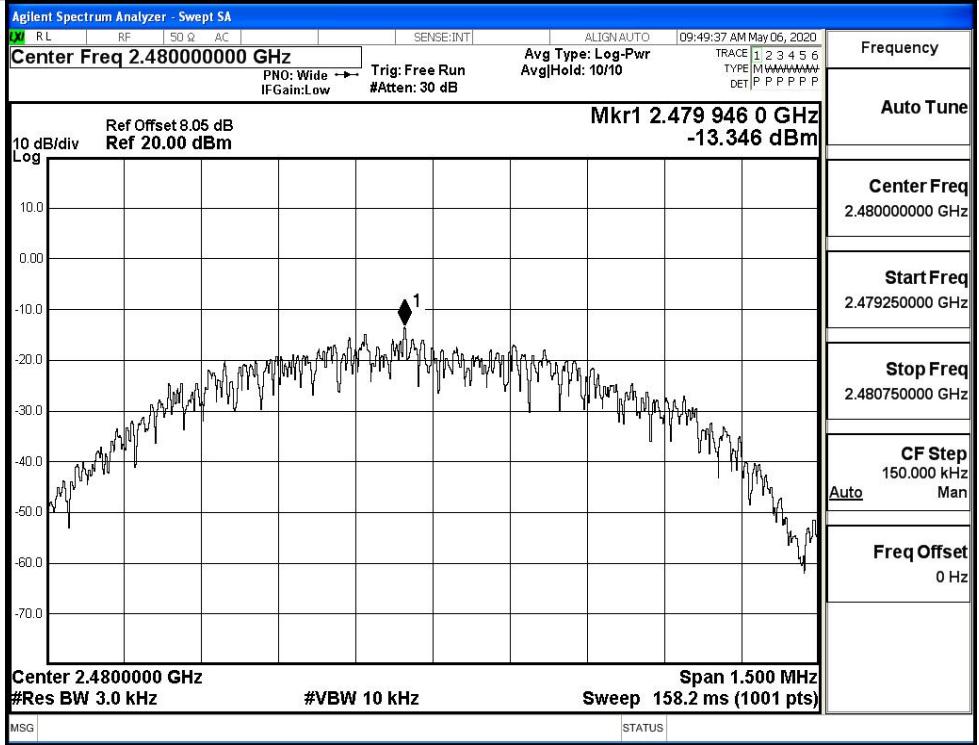
### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.326	8	PASS
BT LE	MCH	-12.812	8	PASS
BT LE	HCH	-13.346	8	PASS

#### Test Graphs

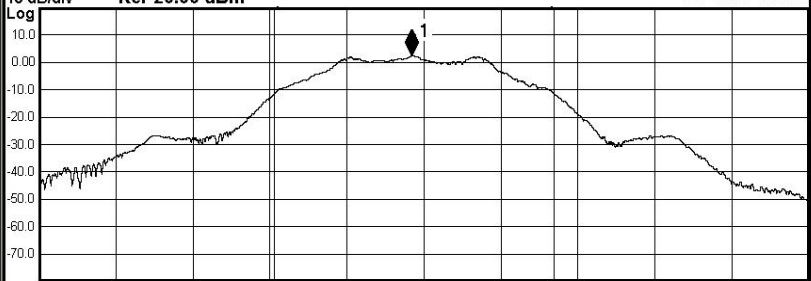
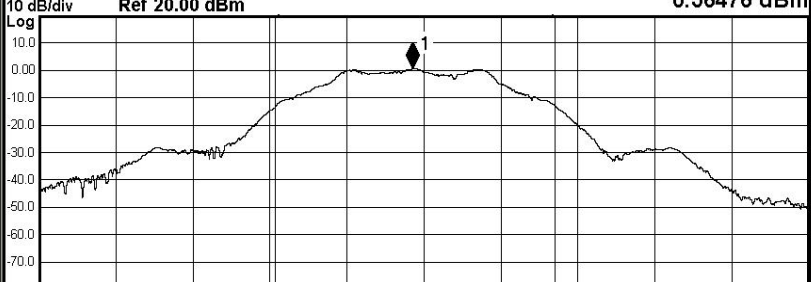


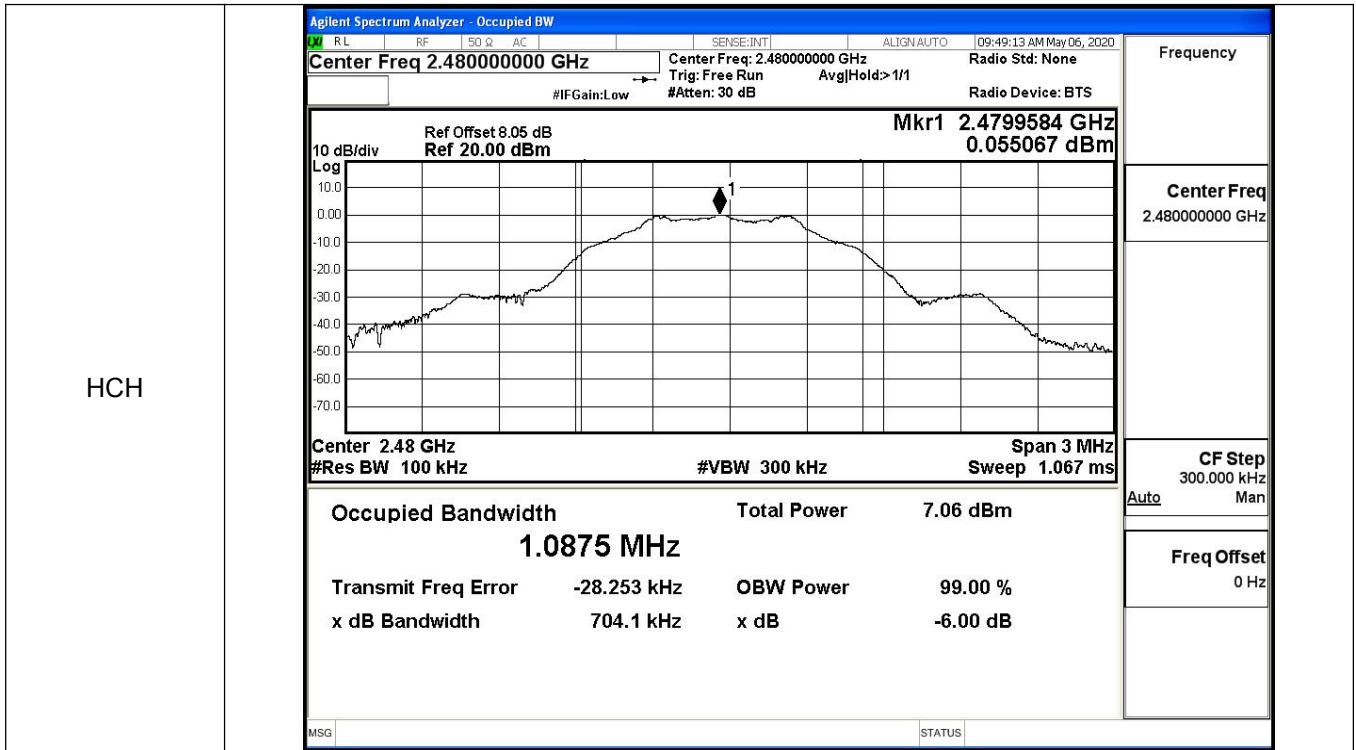
HCH



**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7038	≥0.5	PASS
BT LE	MCH	0.7029	≥0.5	PASS
BT LE	HCH	0.7041	≥0.5	PASS

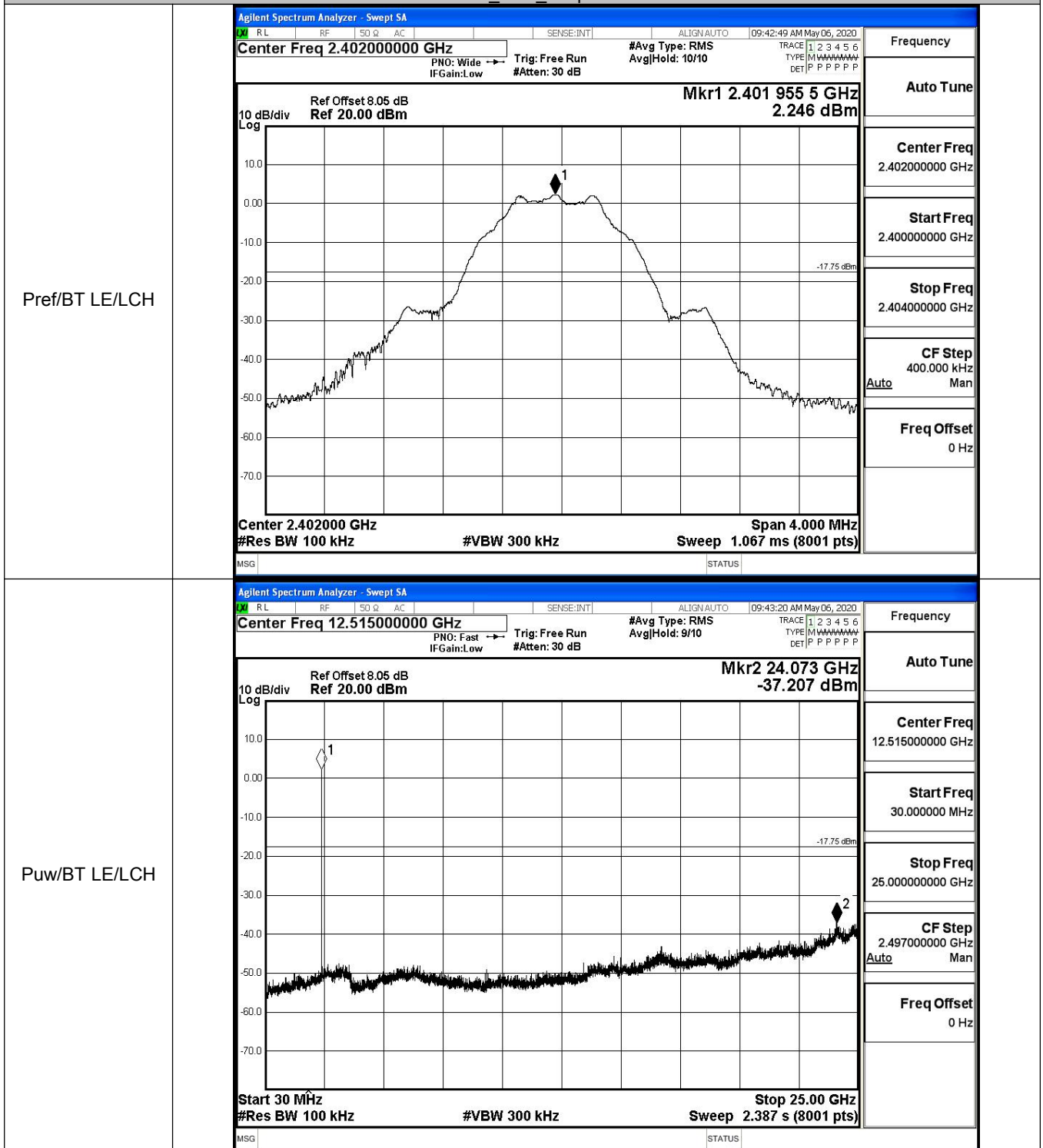
Test Graphs																
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 09:42:00 AM May 06, 2020</p> <p style="font-size: small; margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None</p> <p style="font-size: x-small; margin: 0;">Trig: Free Run AvgHold&gt; 1/1</p> <p style="font-size: x-small; margin: 0;">#IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.05 dB Mkr1 2.401952 GHz</p> <p style="font-size: x-small; margin: 0;">Log Ref 20.00 dBm 2.2506 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.402 GHz Span 3 MHz</p> <p style="font-size: x-small; margin: 0;">#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">9.19 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0866 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-36.824 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>703.8 kHz</td> <td>x dB</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	9.19 dBm	<b>1.0866 MHz</b>			Transmit Freq Error	-36.824 kHz	OBW Power	x dB Bandwidth	703.8 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	2.246	-37.207	-17.754	PASS
BT LE	MCH	0.587	-36.898	-19.413	PASS
BT LE	HCH	0.025	-36.689	-19.975	PASS

BT LE\_LCH\_Graphs

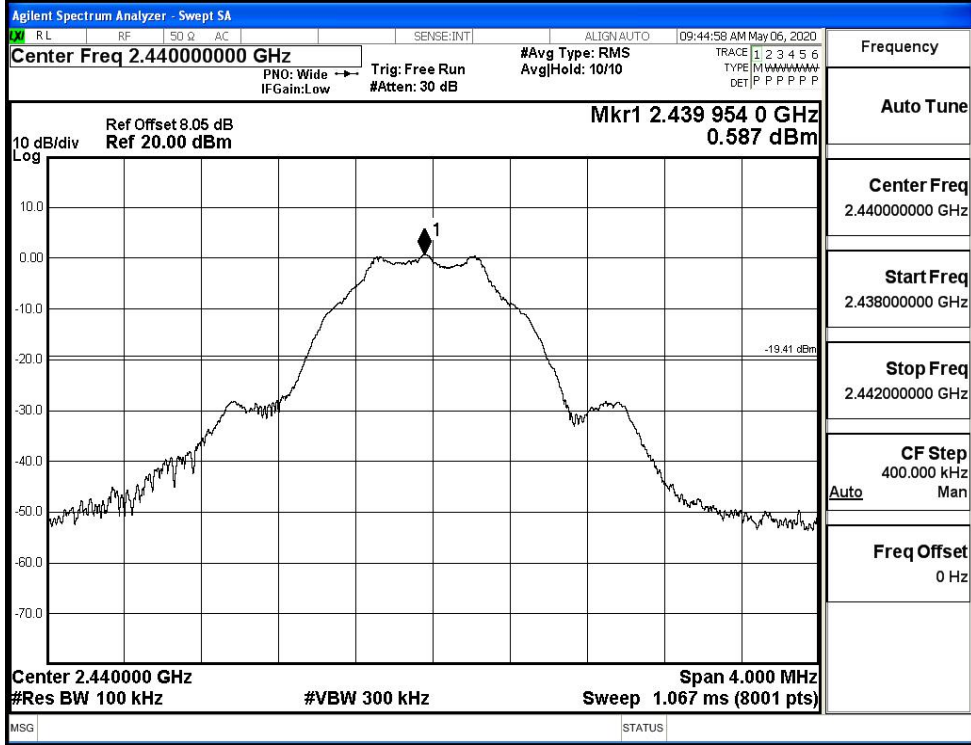




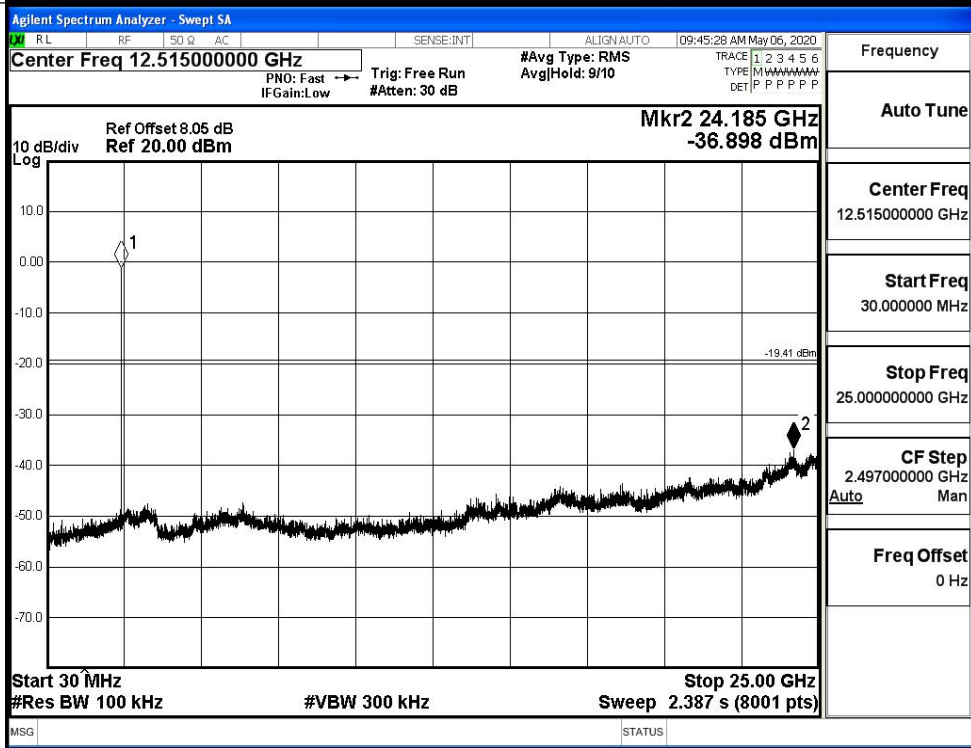
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BT LE MCH Graphs

Pref/BT LE/MCH

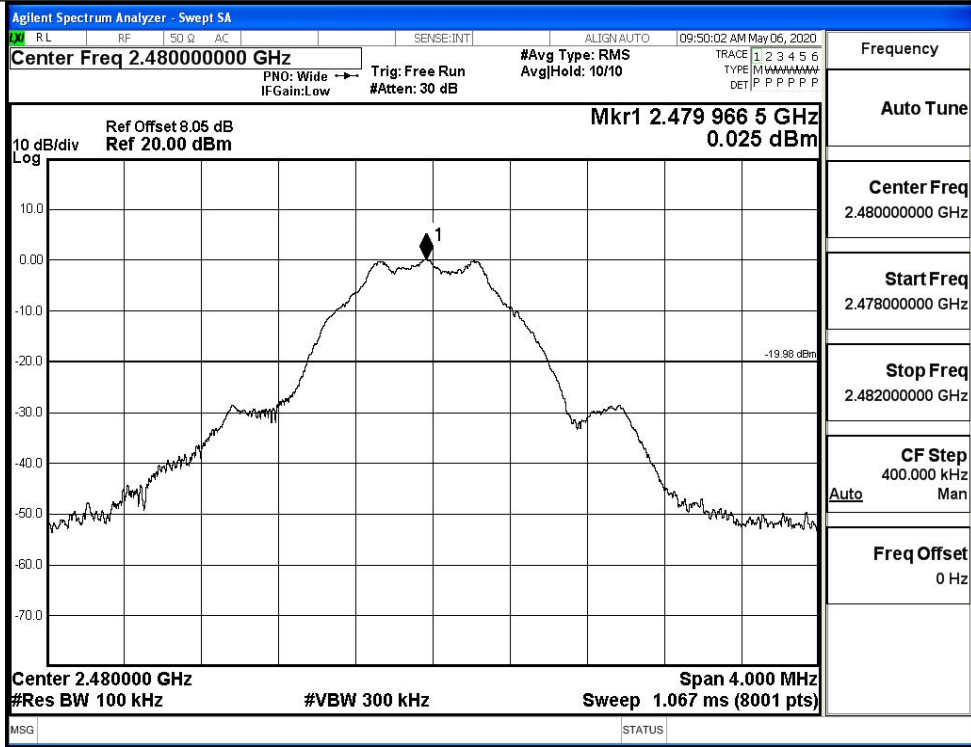


Puw/BT LE/MCH

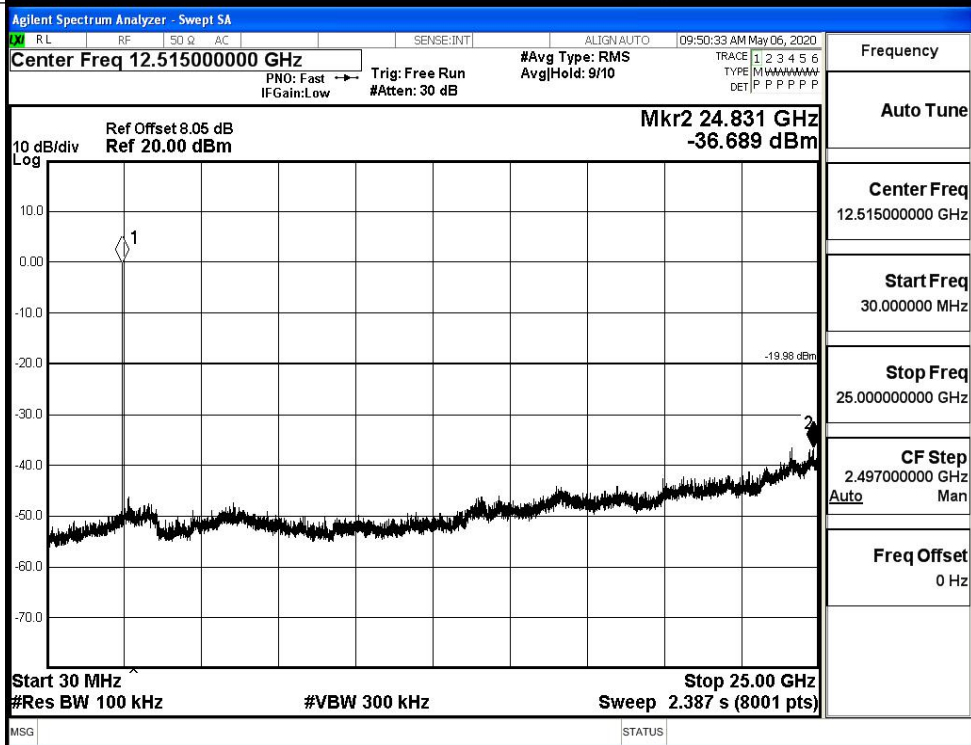


BT LE HCH Graphs

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	2.424	-49.073	-17.58	PASS
BT LE	HCH	0.211	-48.325	-19.79	PASS

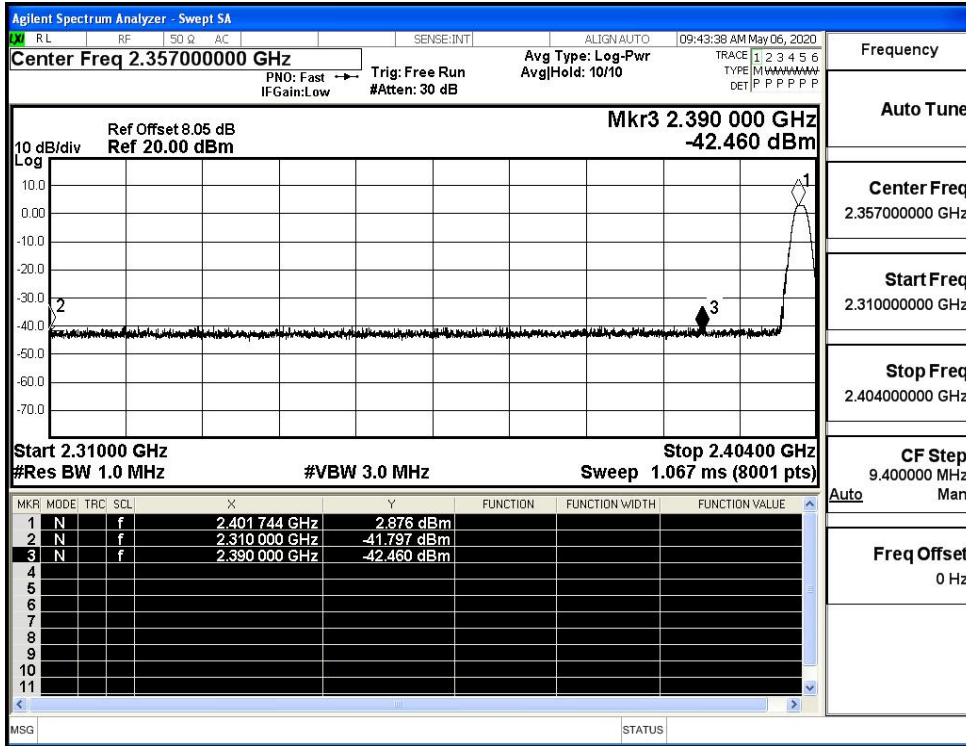
#### Test Graphs

LCH		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.35700000 GHz</p> <p>Mkr4 2.348 611 GHz -49.073 dBm</p> <p>Start 2.31000 GHz Stop 2.40400 GHz</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>2.401 956 GHz</td><td>2.424 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 GHz</td><td>-51.646 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 GHz</td><td>-53.797 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.348 611 GHz</td><td>-49.073 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		2.401 956 GHz	2.424 dBm				2	N	f		2.400 000 GHz	-51.646 dBm				3	N	f		2.390 000 GHz	-53.797 dBm				4	N	f		2.348 611 GHz	-49.073 dBm			
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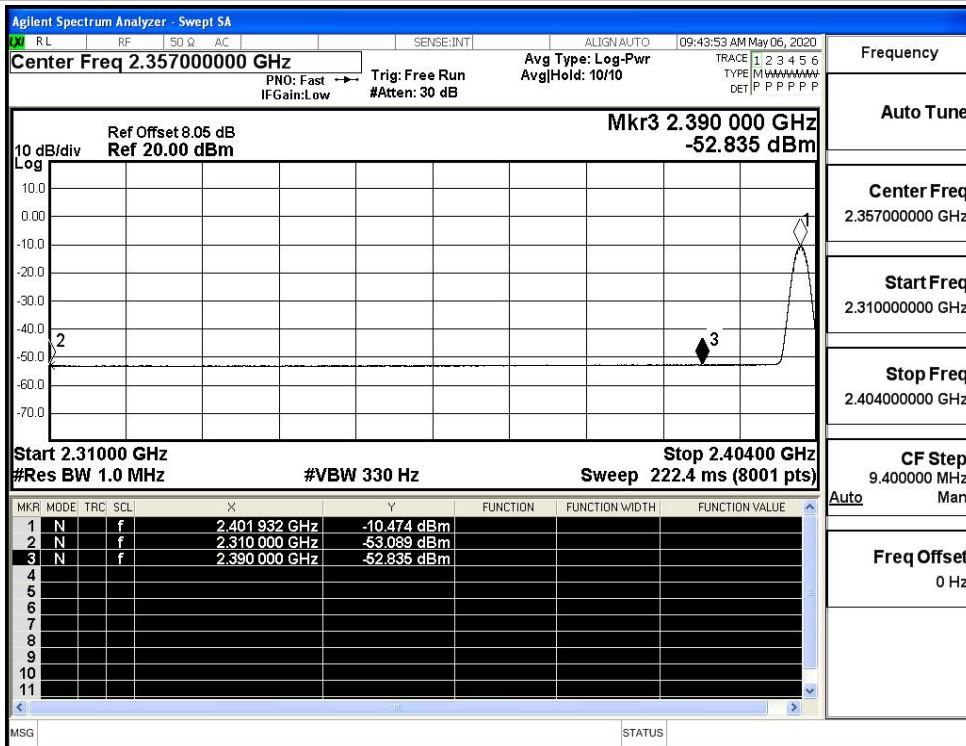
**B.7 Restrict-band band-edge measurements**

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	-41.80	2.0	0	55.43	PEAK	74	PASS
		Ant1	2310.0	-53.09	2.0	0	44.14	AV	54	PASS
		Ant1	2390.0	-42.46	2.0	0	54.77	PEAK	74	PASS
		Ant1	2390.0	-52.84	2.0	0	44.39	AV	54	PASS
	2480	Ant1	2483.5	-42.06	2.0	0	55.17	PEAK	74	PASS
		Ant1	2483.5	-52.35	2.0	0	44.88	AV	54	PASS
		Ant1	2500.0	-42.06	2.0	0	55.17	PEAK	74	PASS
		Ant1	2500.0	-52.13	2.0	0	45.10	AV	54	PASS

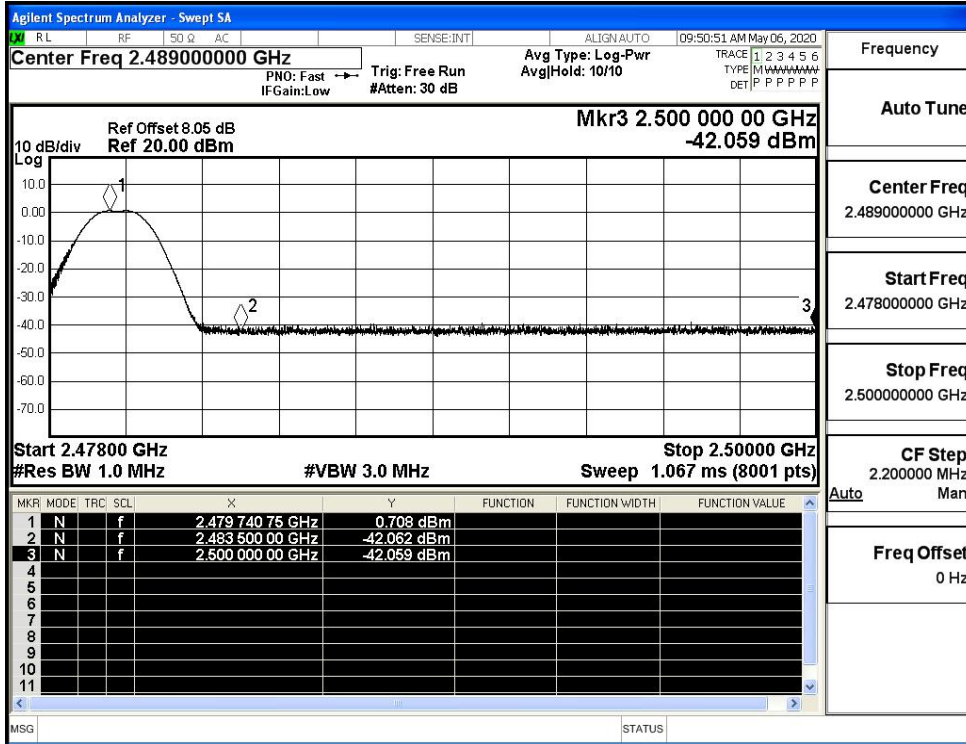
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

