

Appendix B

RF Test Data for BT V5.0 (BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark: Cyber Acoustics

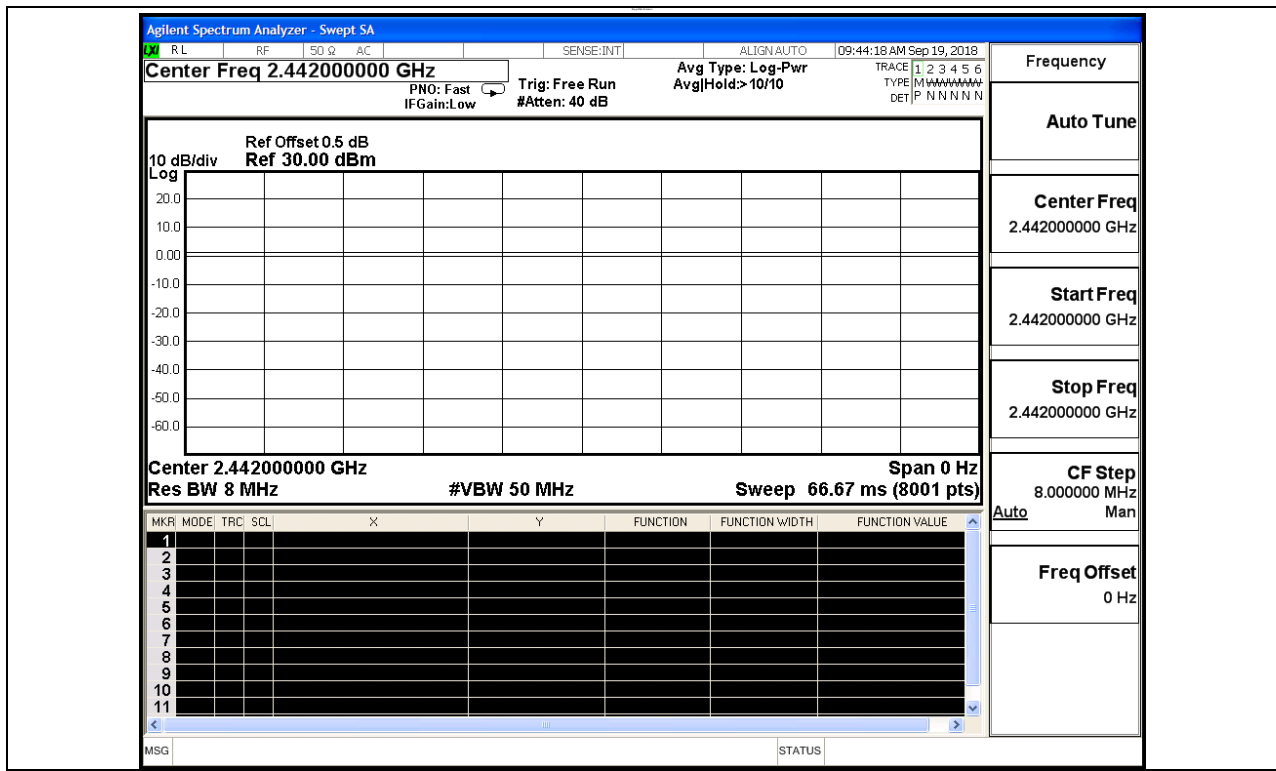
Test Model: CA-2885BT

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

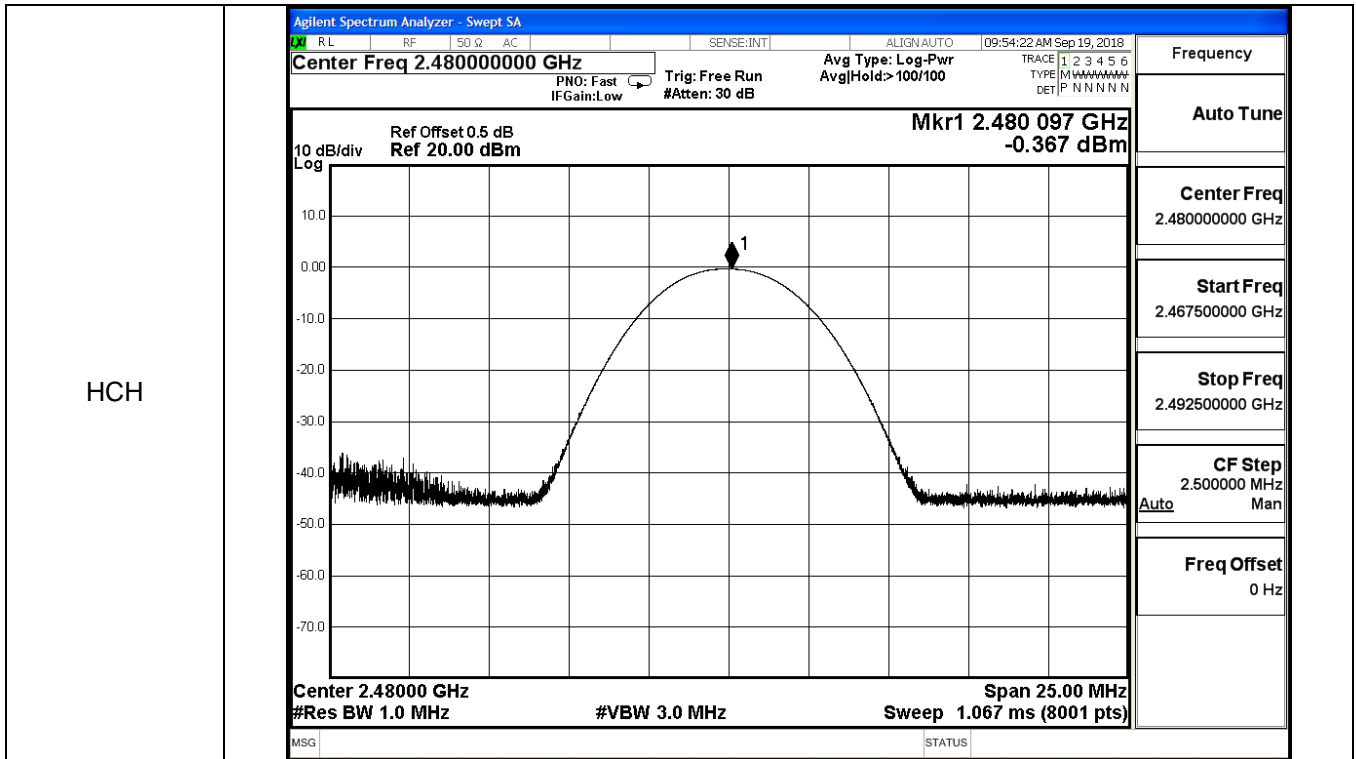
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2442	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.922	30	PASS
BT LE	MCH	1.246	30	PASS
BT LE	HCH	-0.367	30	PASS

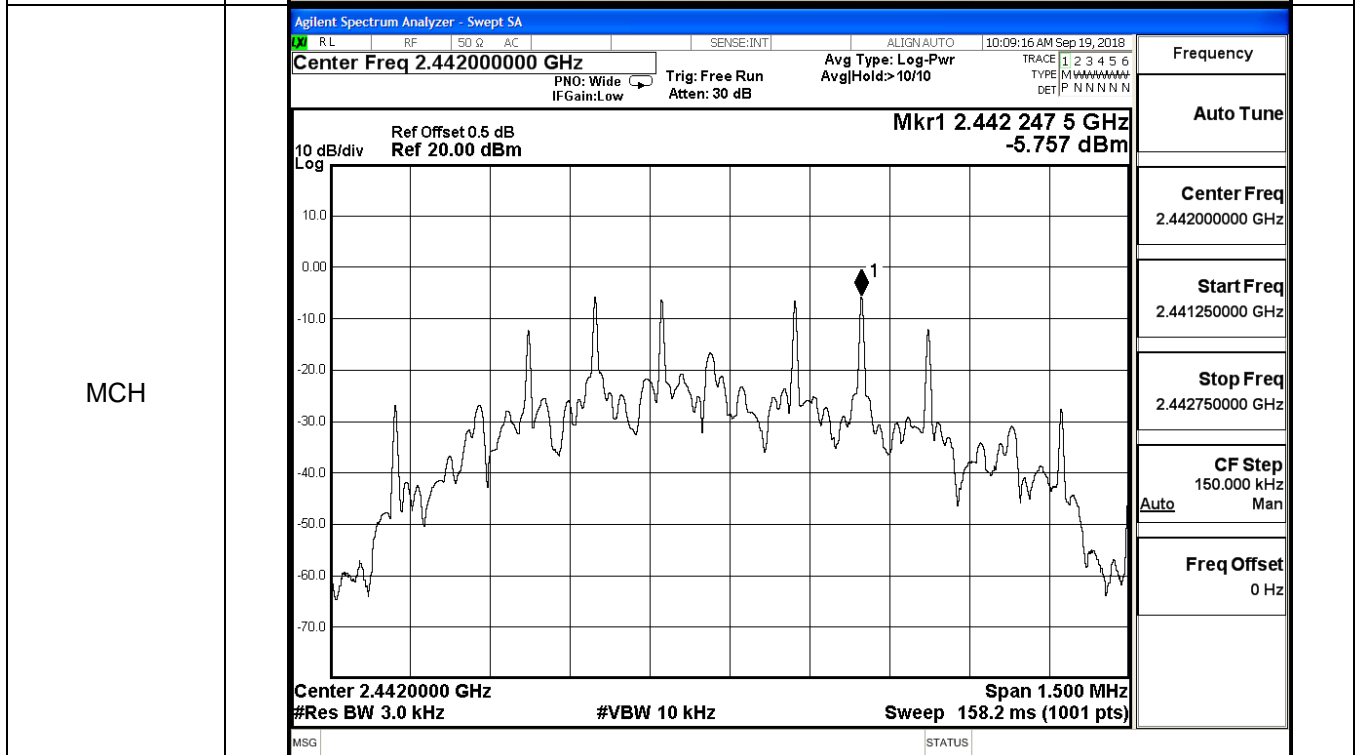
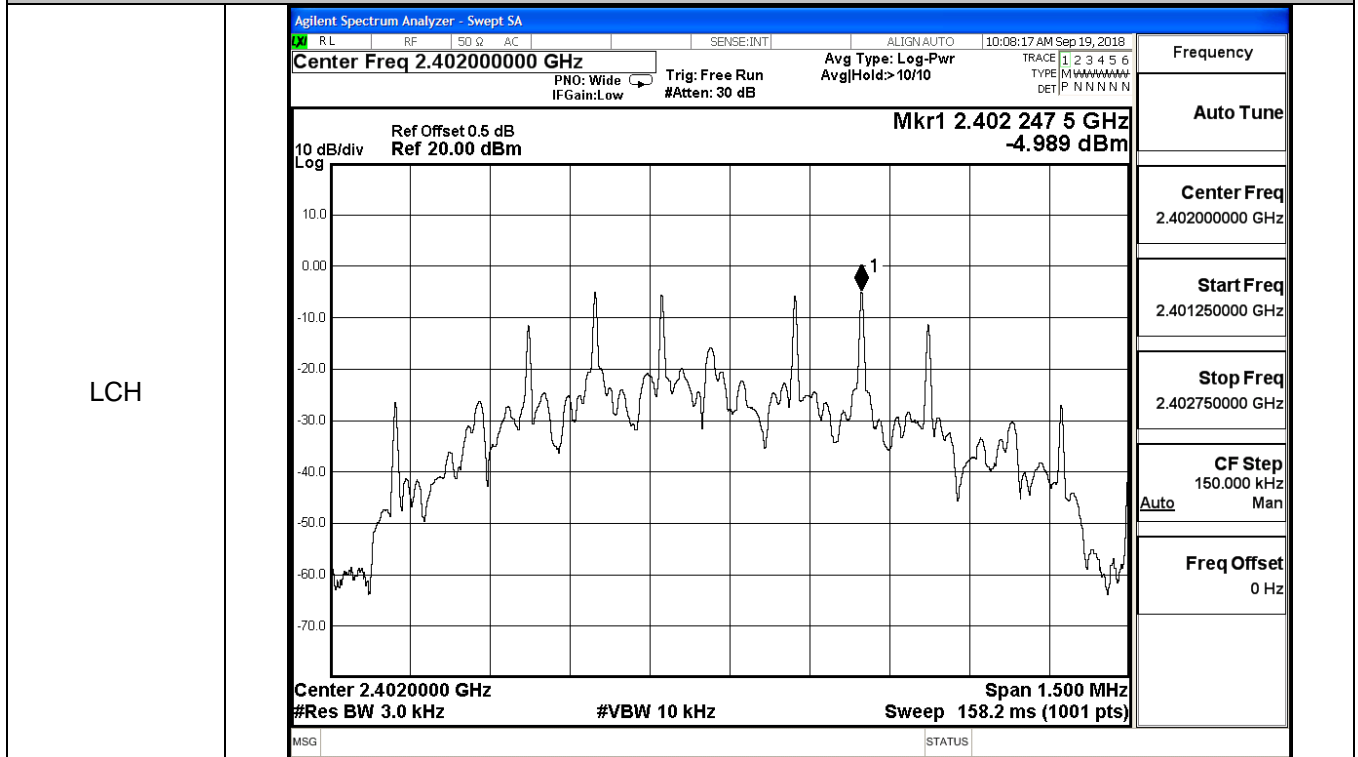
Test Graphs	
LCH	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40200000 GHz</p> <p>Mkr1 2.401 891 GHz 1.922 dBm</p> <p>Center 2.40200 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 25.00 MHz Sweep 1.067 ms (8001 pts)</p>
MCH	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44200000 GHz</p> <p>Mkr1 2.441 047 GHz 1.246 dBm</p> <p>Center 2.44200 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Span 25.00 MHz Sweep 1.067 ms (8001 pts)</p>

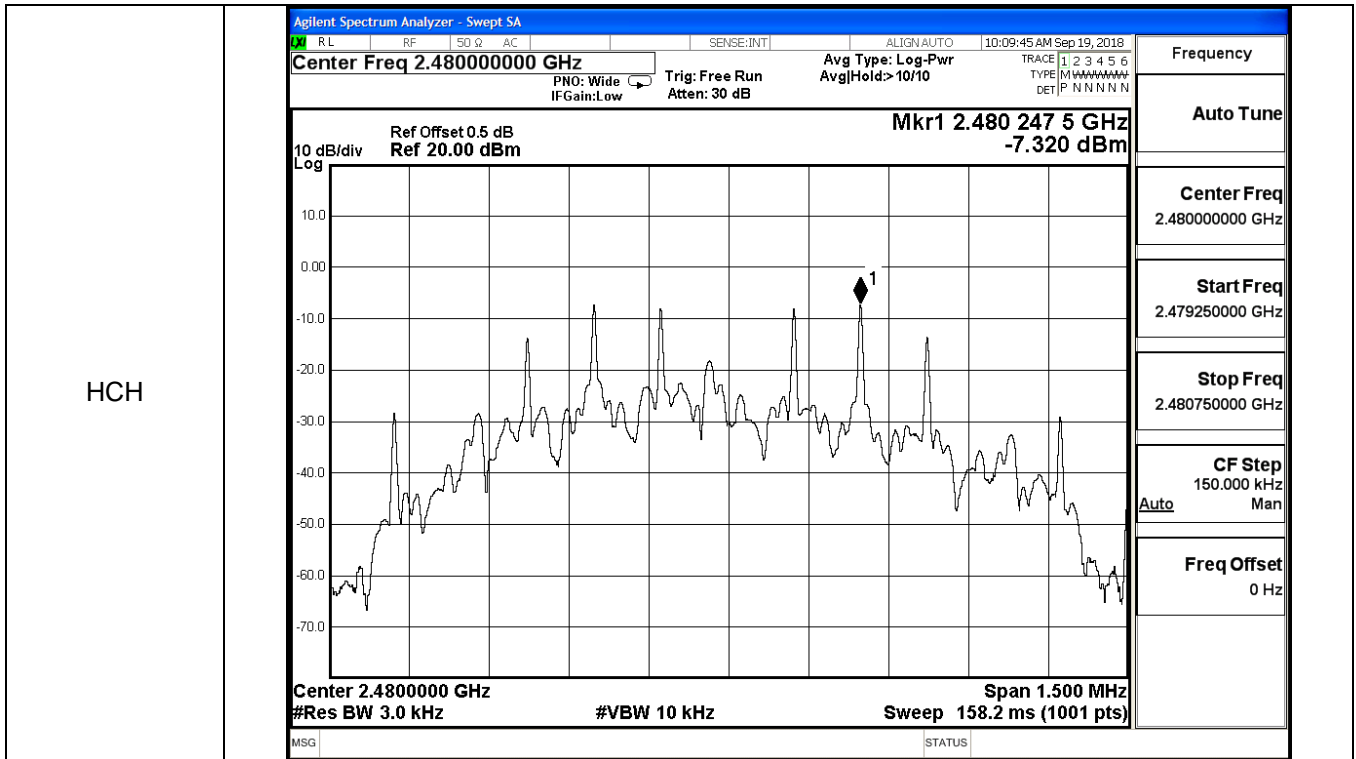


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-4.989	8	PASS
BT LE	MCH	-5.757	8	PASS
BT LE	HCH	-7.320	8	PASS

Test Graphs

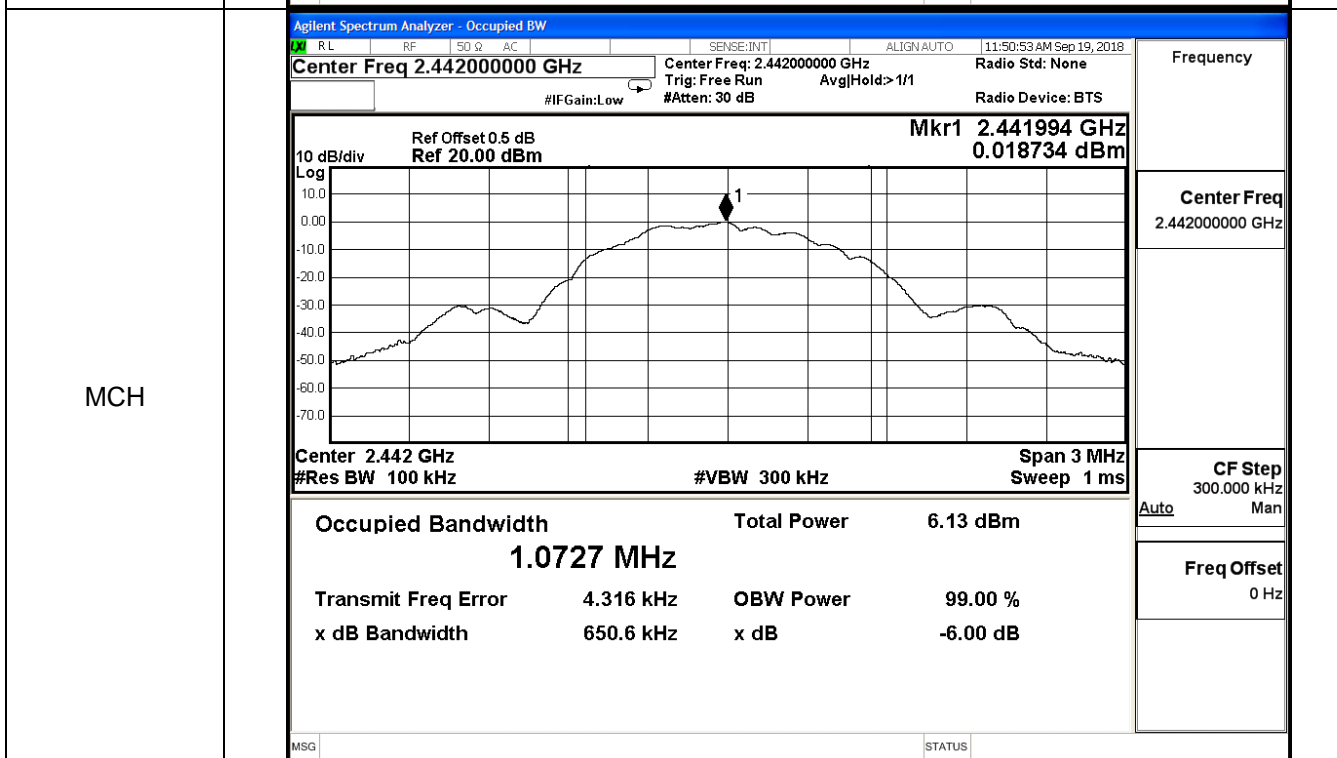
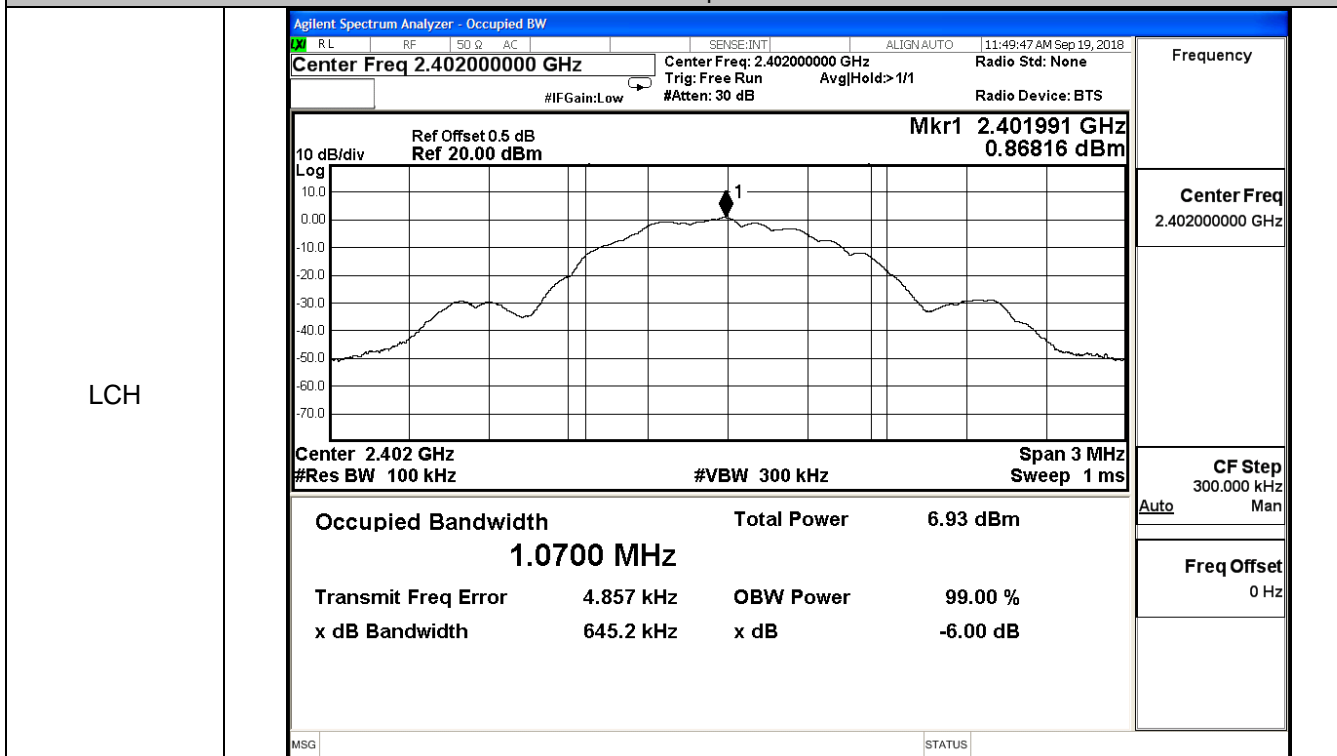


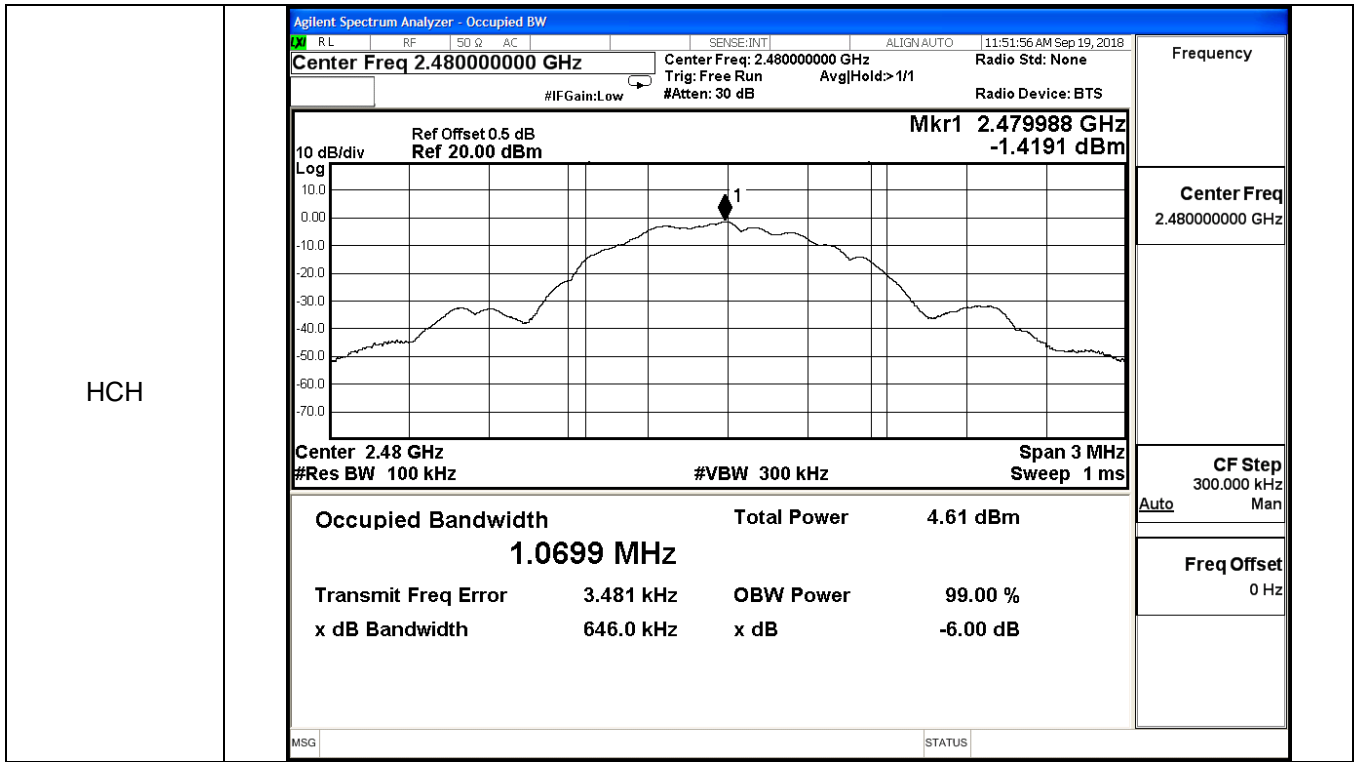


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6452	≥0.5	PASS
BT LE	MCH	0.6506	≥0.5	PASS
BT LE	HCH	0.6460	≥0.5	PASS

Test Graphs



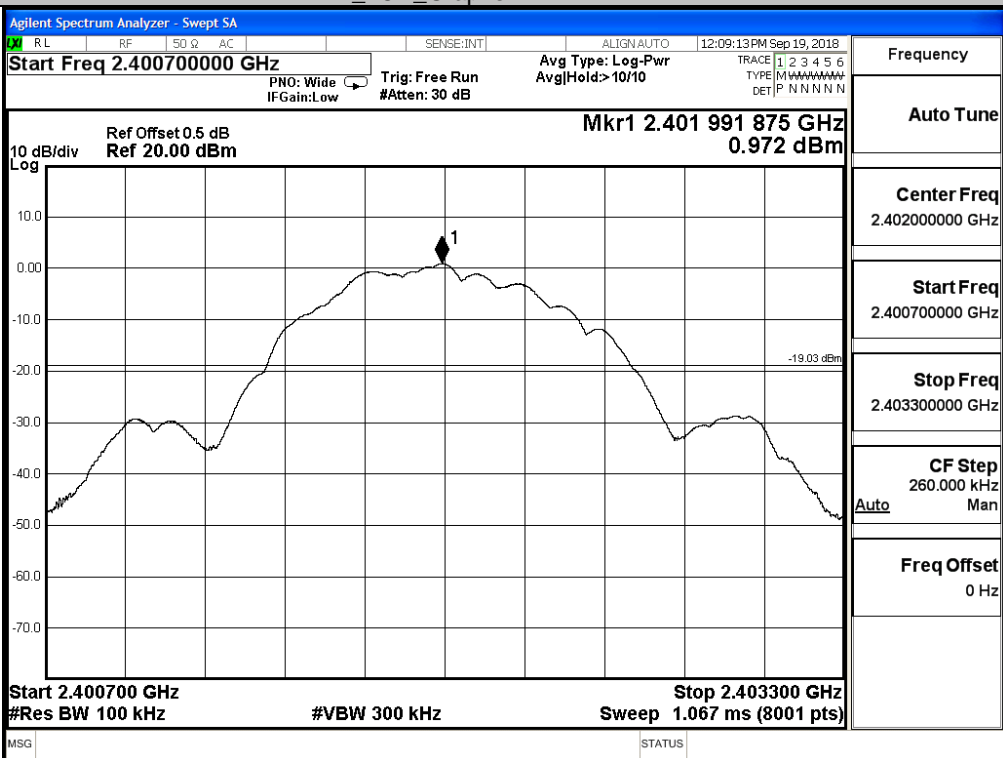


B.5 RF Conducted Spurious Emissions

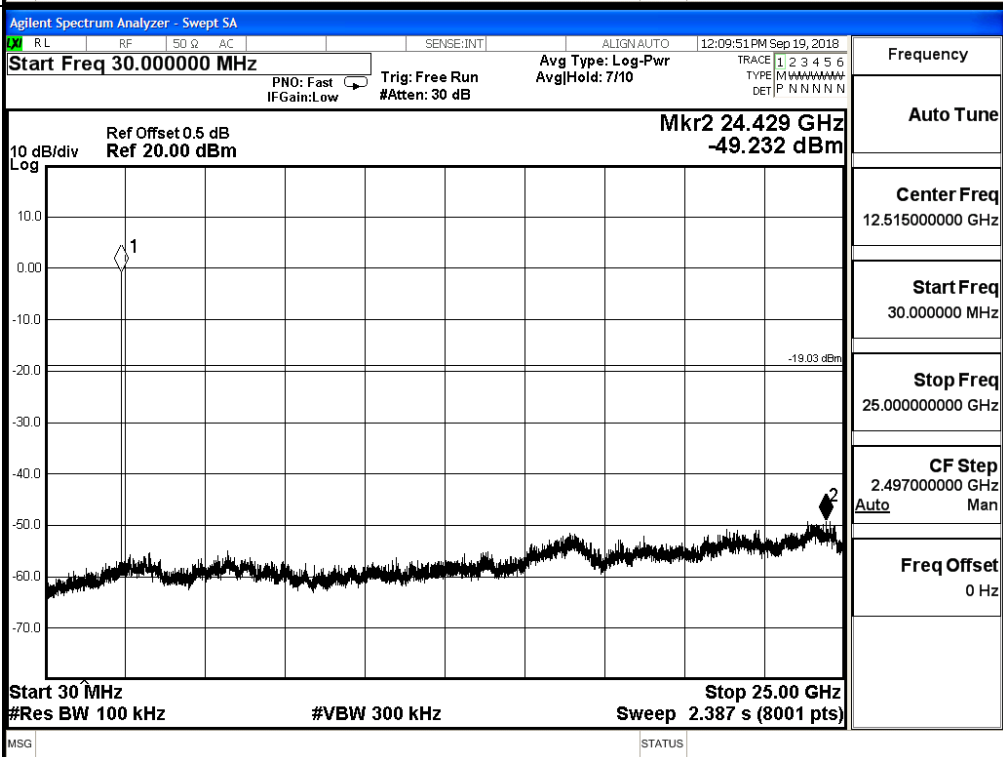
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.972	-49.232	-19.03	PASS
BT LE	MCH	0.271	-49.582	-19.73	PASS
BT LE	HCH	-1.234	-49.696	-21.23	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

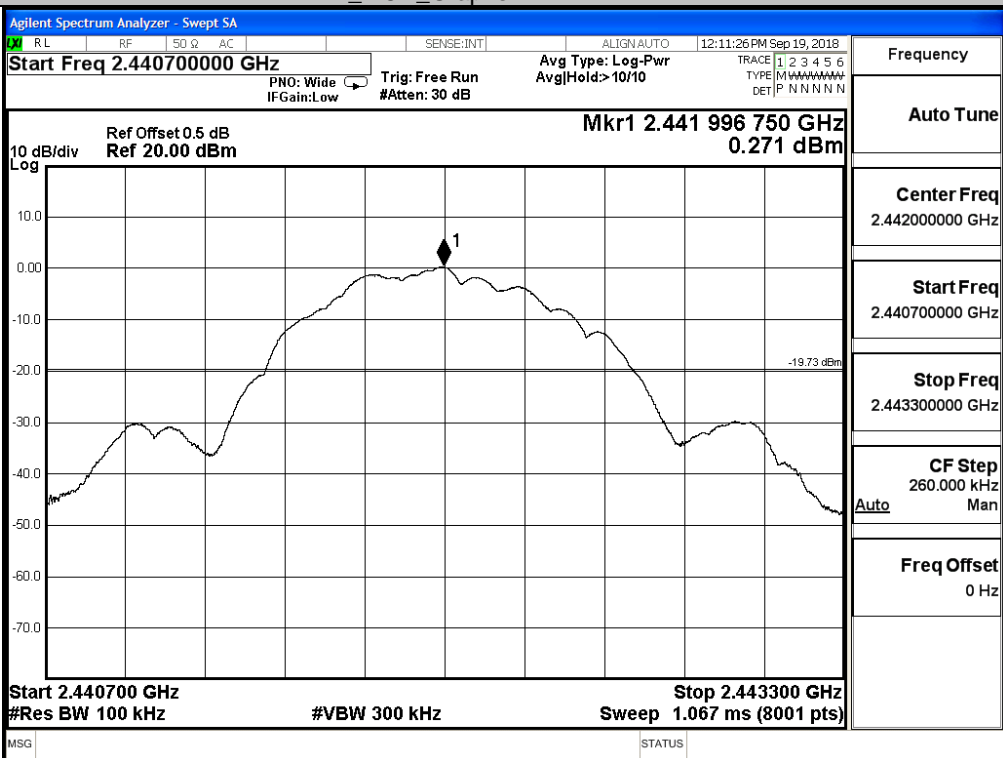


Puw/BT LE/LCH

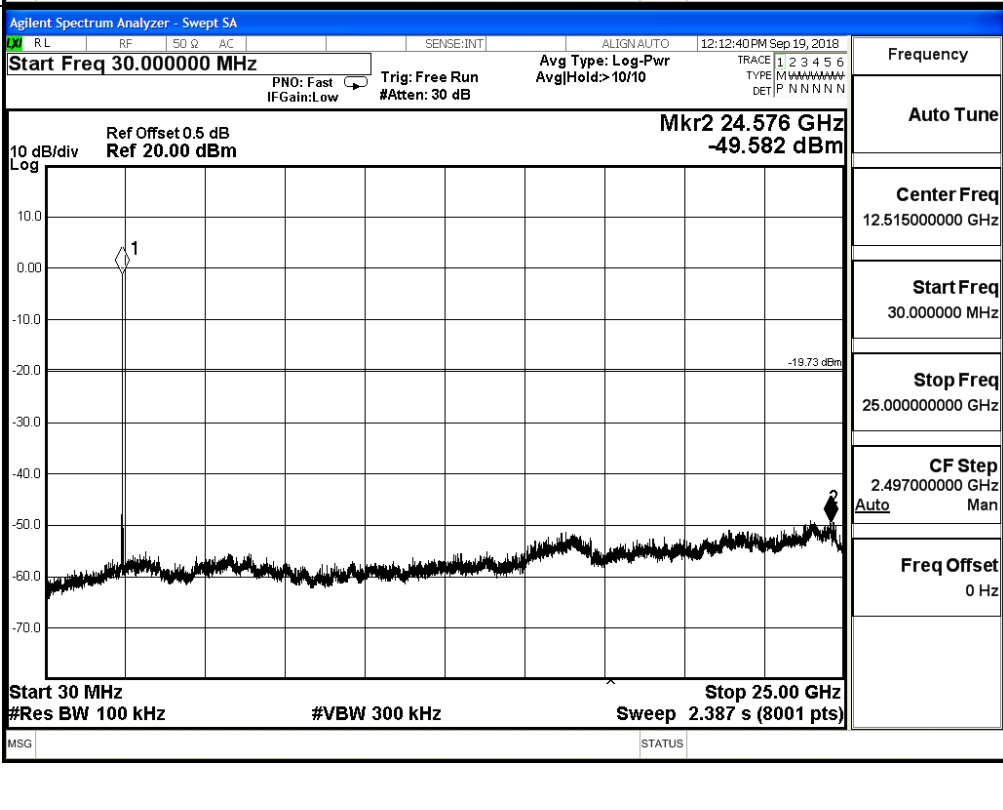


BT LE_MCH_Graphs

Pref/BT LE/MCH

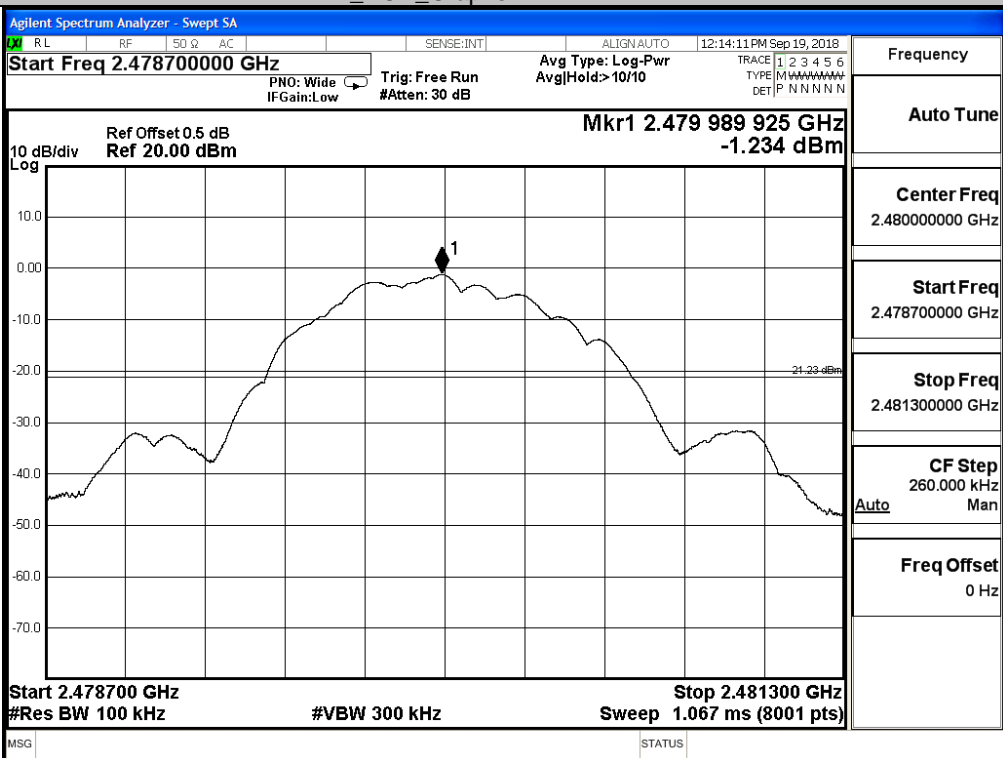


Puw/BT LE/MCH

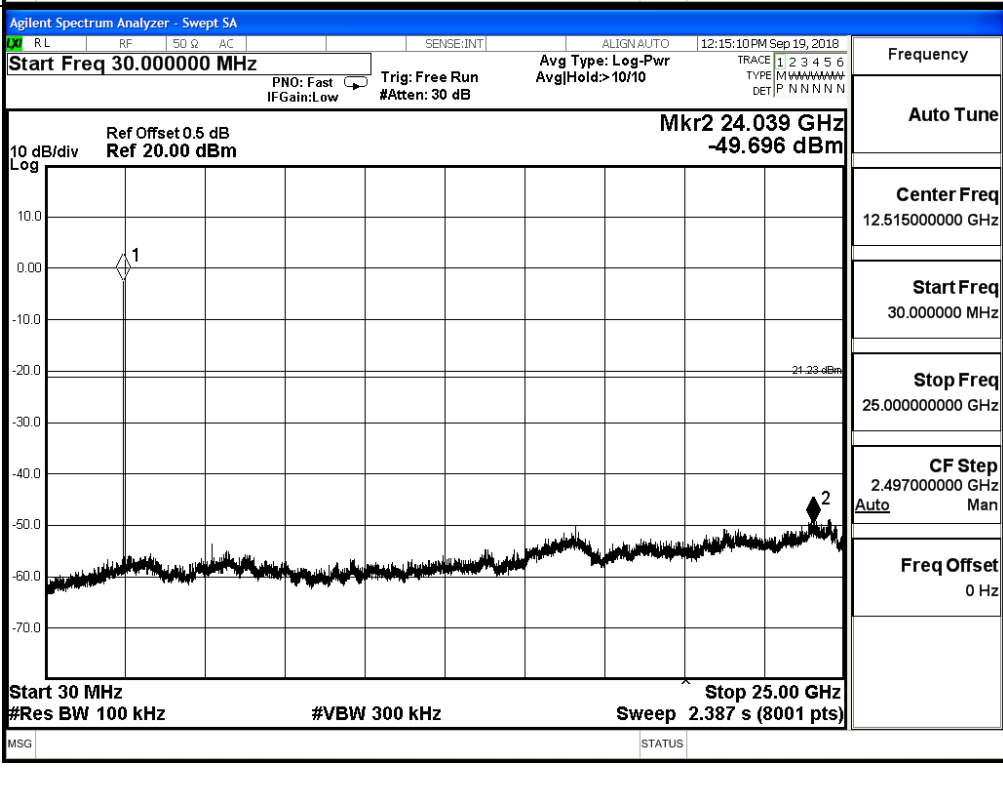


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

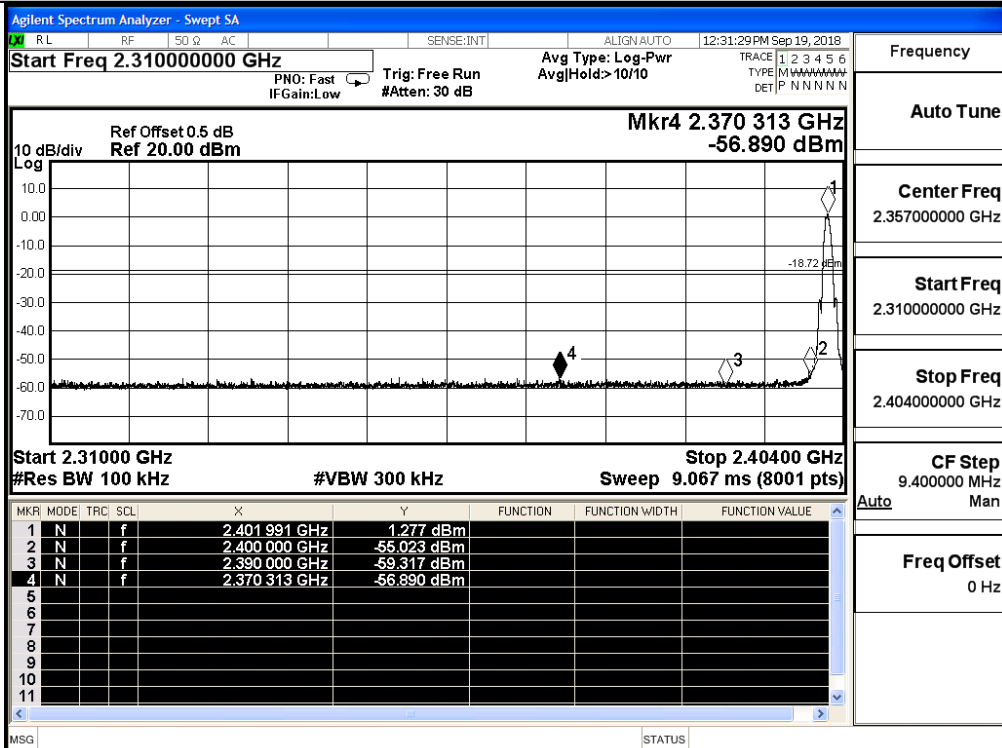


B.6 Band-edge for RF Conducted Emissions

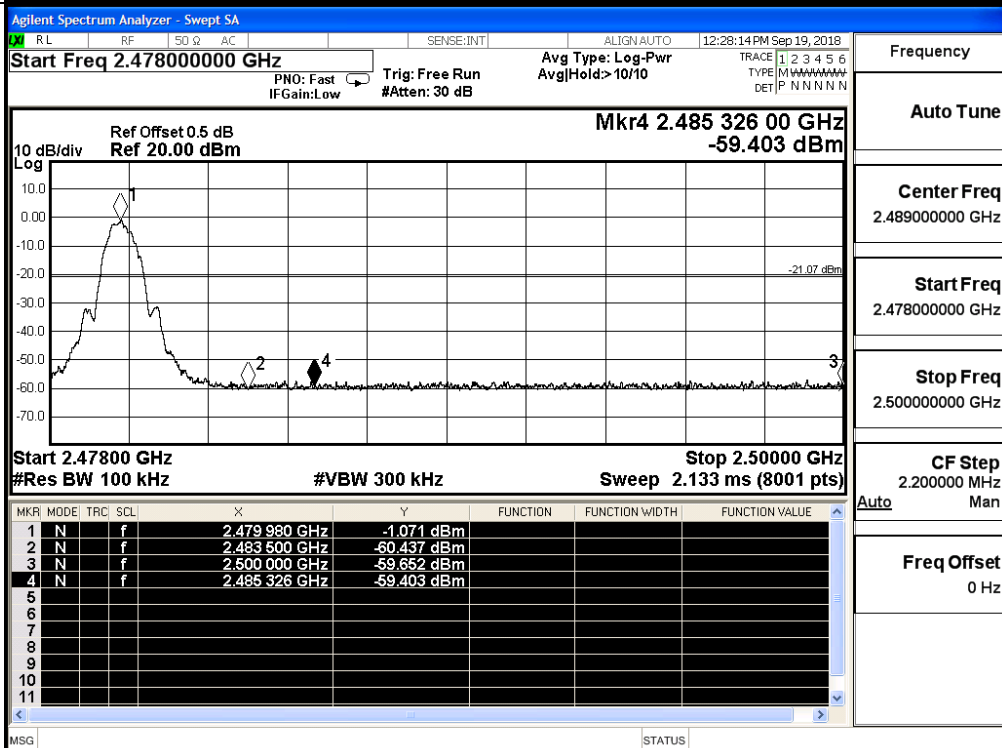
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.277	-56.890	-18.72	PASS
BT LE	HCH	-1.071	-59.403	-21.07	PASS

Test Graphs

LCH



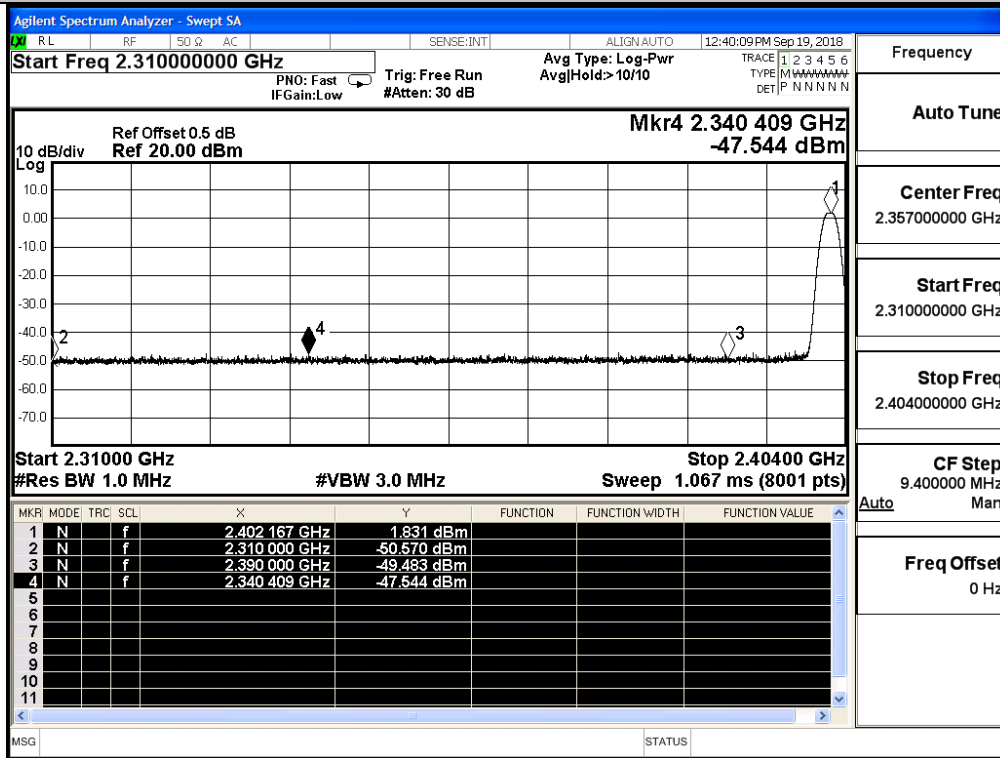
HCH



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	-50.570	2.0	0	46.69	PEAK	74	PASS
		Ant1	2390.0	-49.483	2.0	0	47.78	PEAK	74	PASS
	2480	Ant1	2483.5	-49.433	2.0	0	47.83	PEAK	74	PASS
		Ant1	2500.0	-49.389	2.0	0	47.87	PEAK	74	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK

