

## Appendix B

### RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Urbanista Chicago

Trade Mark: Urbanista

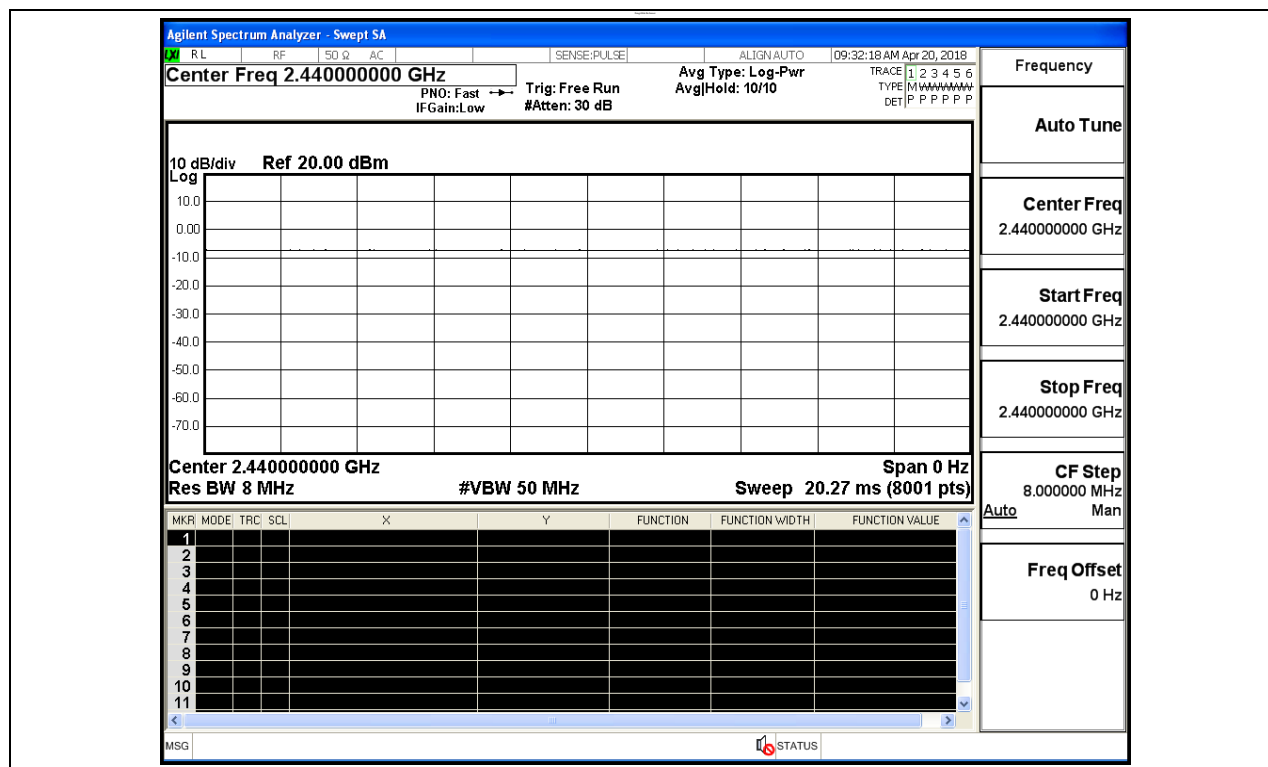
Test Model: Chicago Dark Clown

#### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

#### B.1 Duty Cycle

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

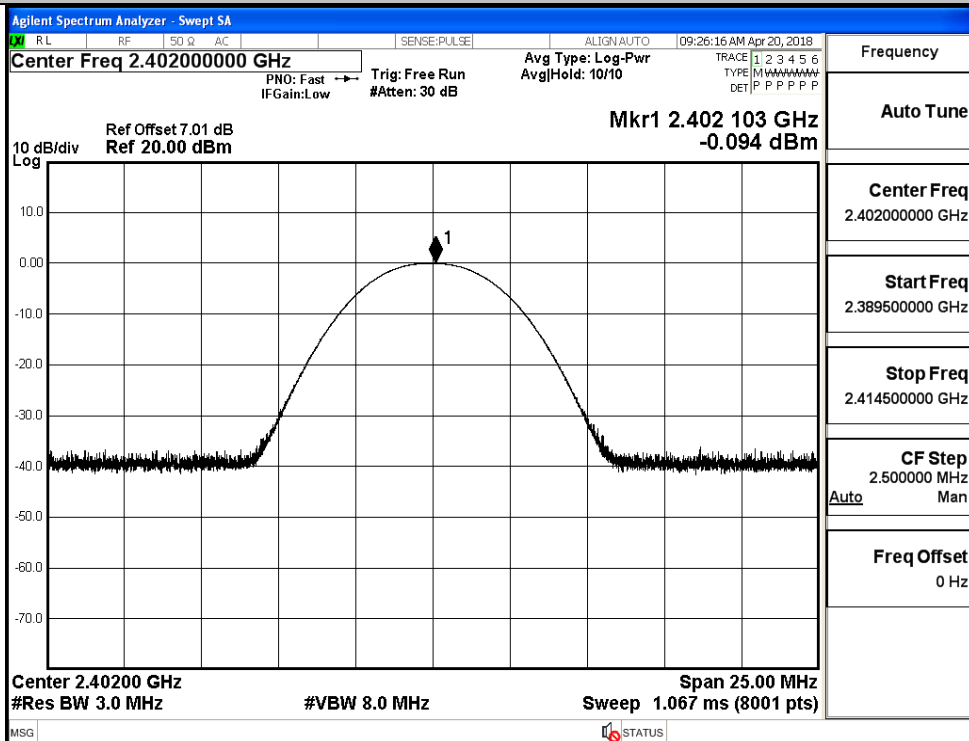


## B.2 Maximum Conducted Peak Output Power

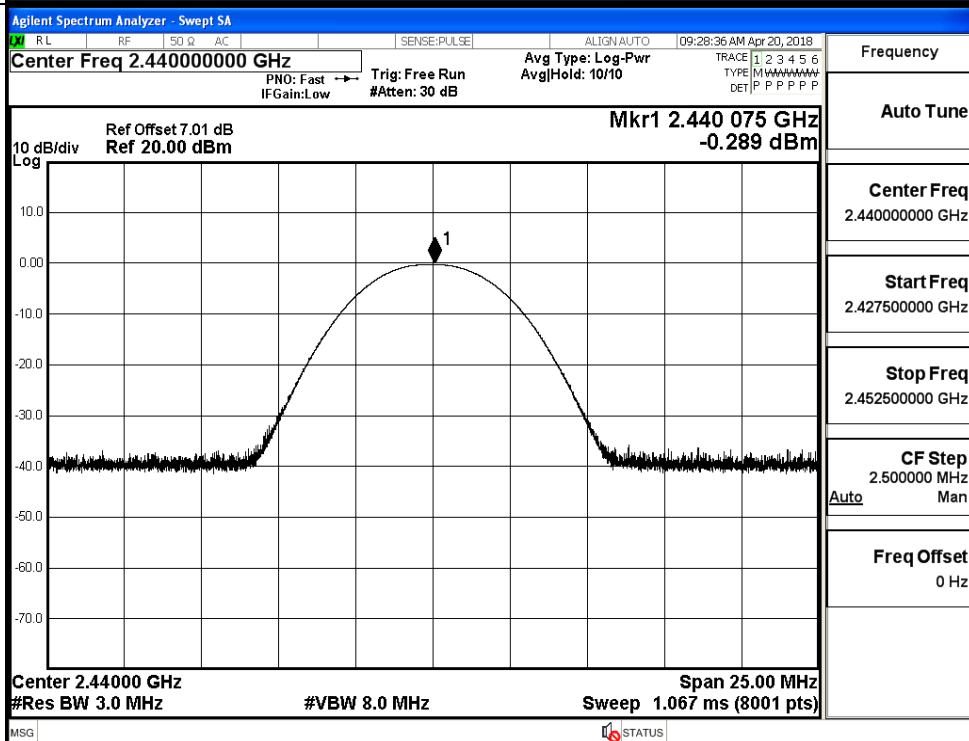
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.094	30	PASS
BT LE	MCH	-0.289	30	PASS
BT LE	HCH	-0.3	30	PASS

Test Graphs

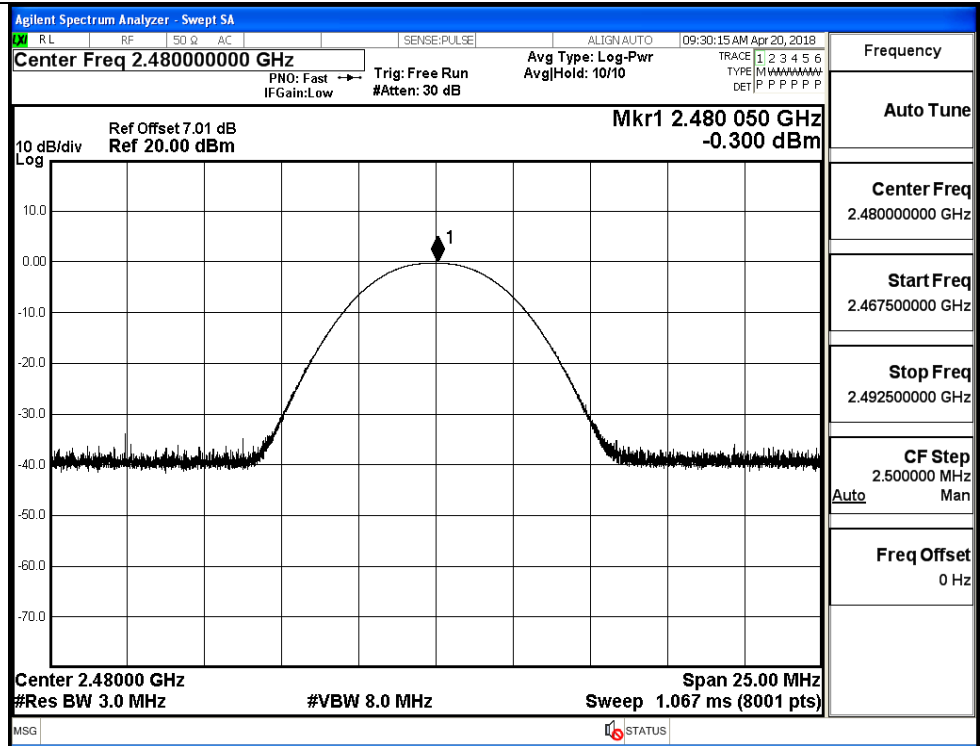
LCH



MCH



HCH

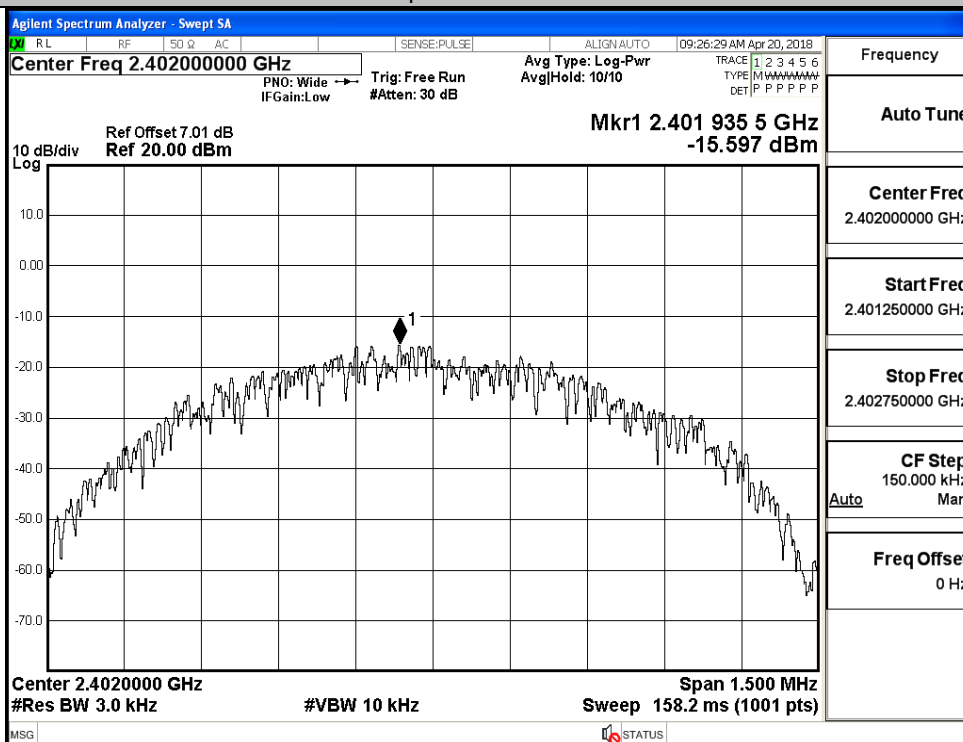


## B.3 Maximum Power Spectral Density

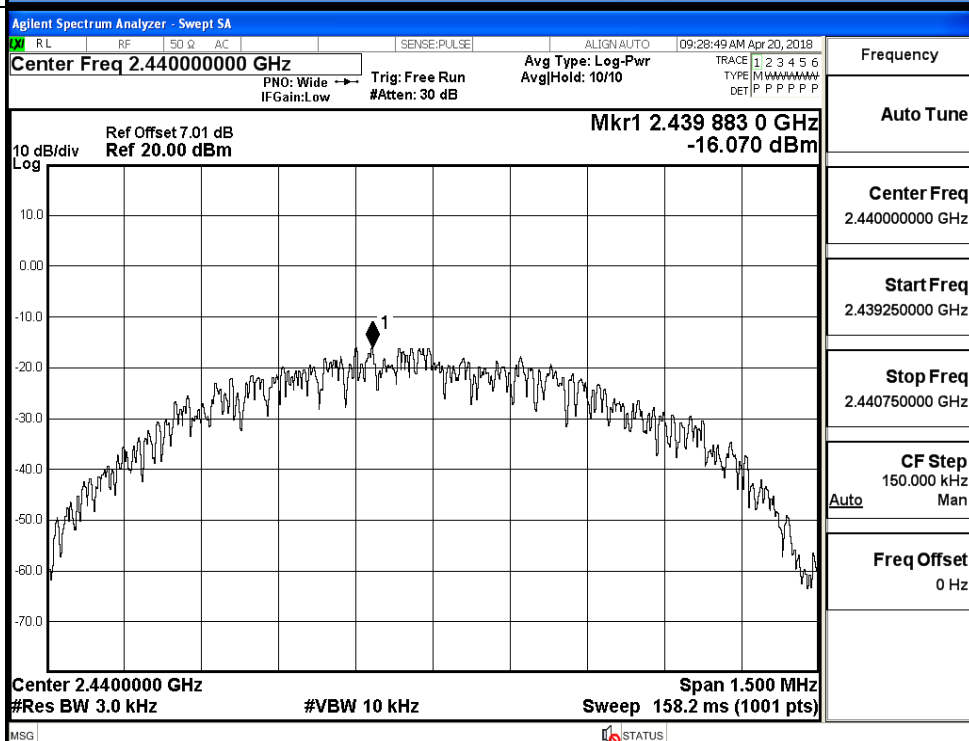
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.597	8	PASS
BT LE	MCH	-16.070	8	PASS
BT LE	HCH	-15.839	8	PASS

## Test Graphs

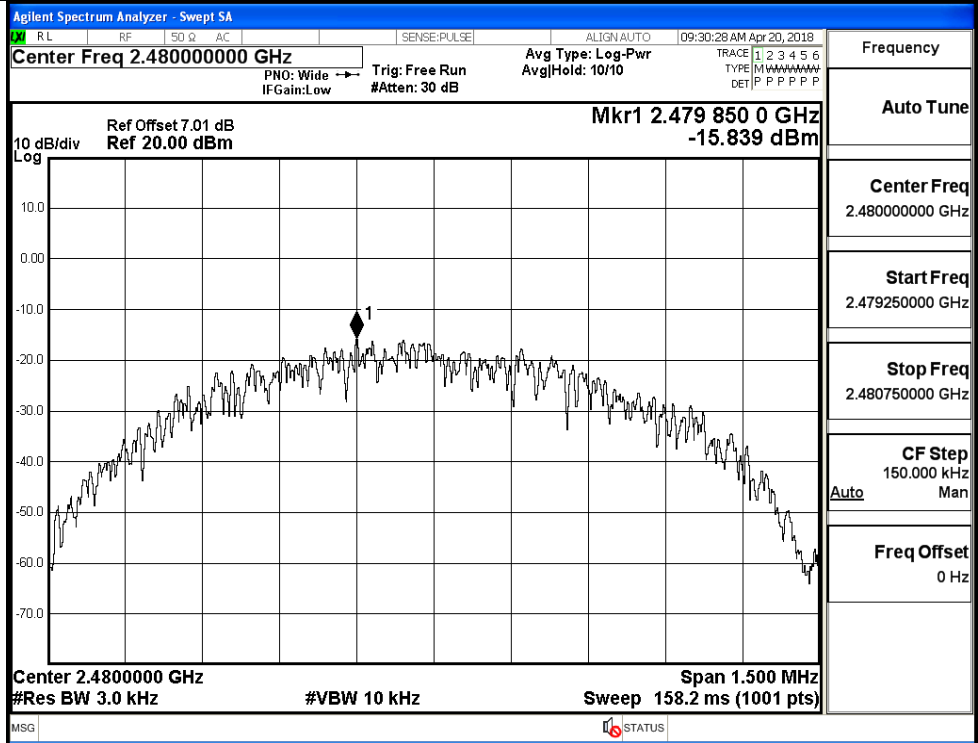
LCH



MCH



HCH

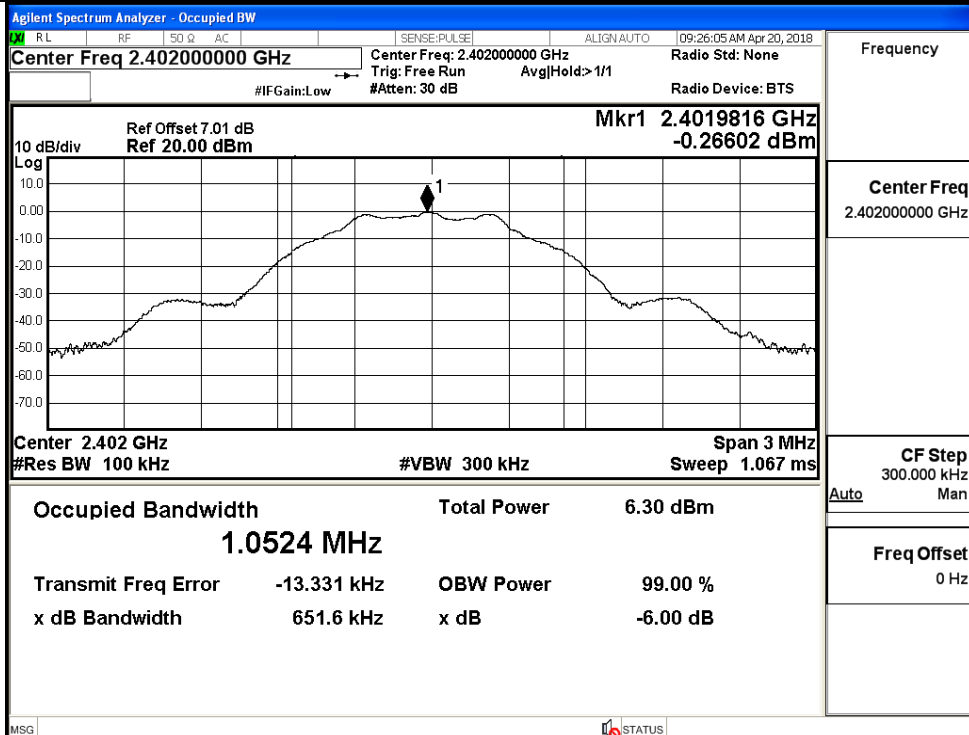


## B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6516	$\geq 0.5$	PASS
BT LE	MCH	0.6569	$\geq 0.5$	PASS
BT LE	HCH	0.6627	$\geq 0.5$	PASS

## Test Graphs

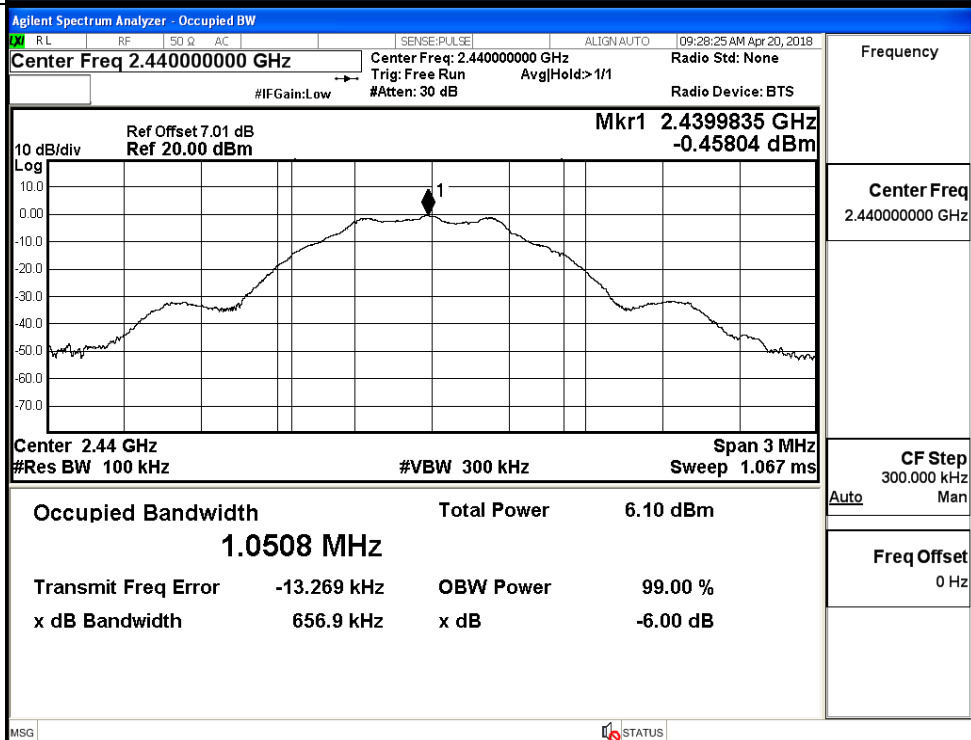
LCH



Frequency

Center Freq  
2.402000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

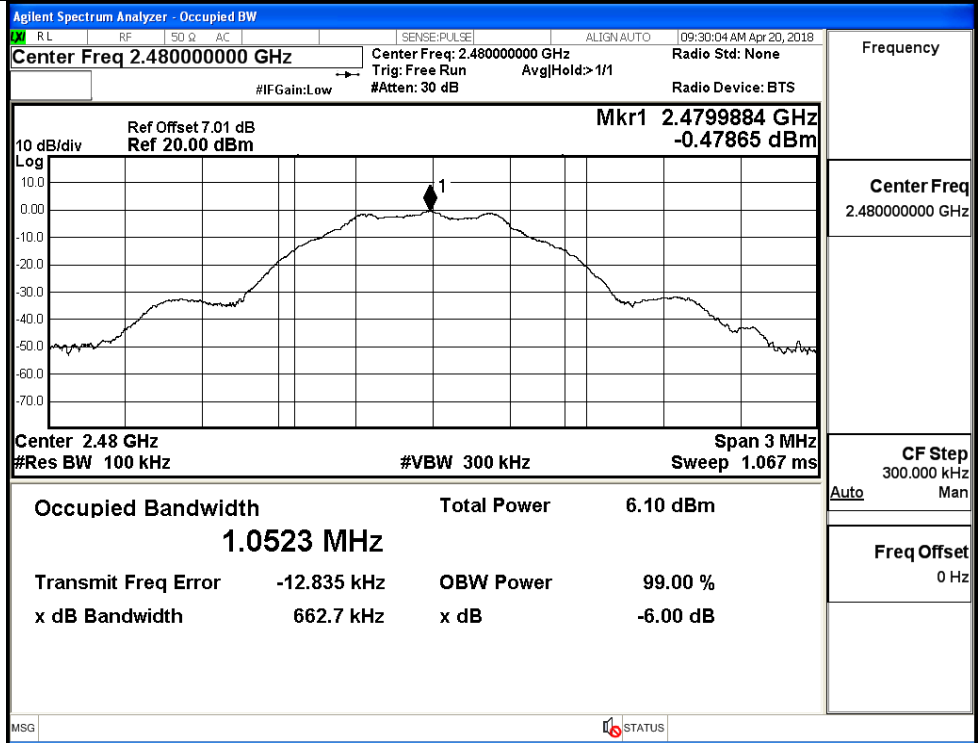
MCH



Frequency

Center Freq  
2.440000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

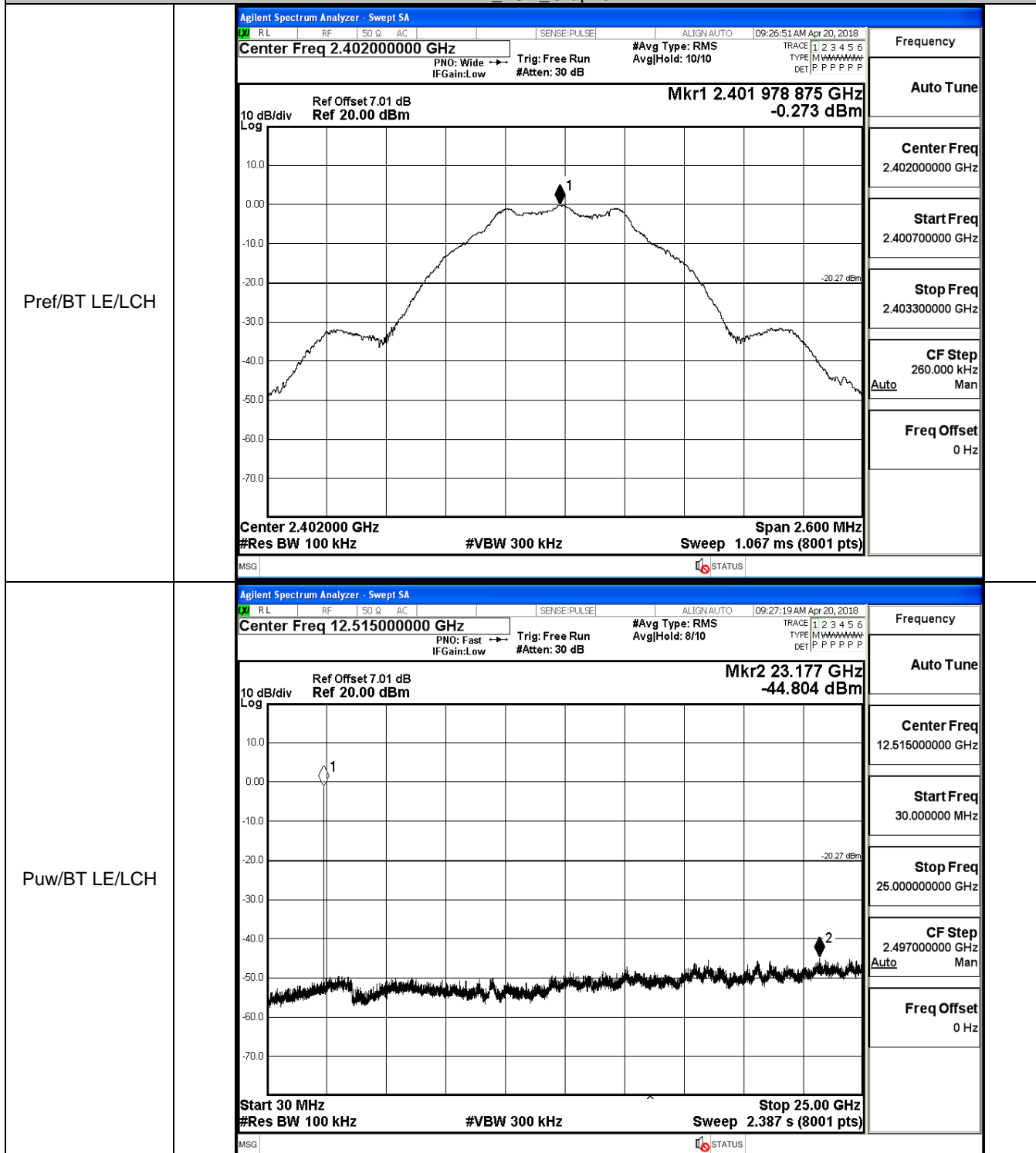
HCH



## B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.273	-44.804	-20.273	PASS
BT LE	MCH	-0.466	-44.789	-20.466	PASS
BT LE	HCH	-0.479	-44.596	-20.479	PASS

BT LE\_LCH\_Graphs

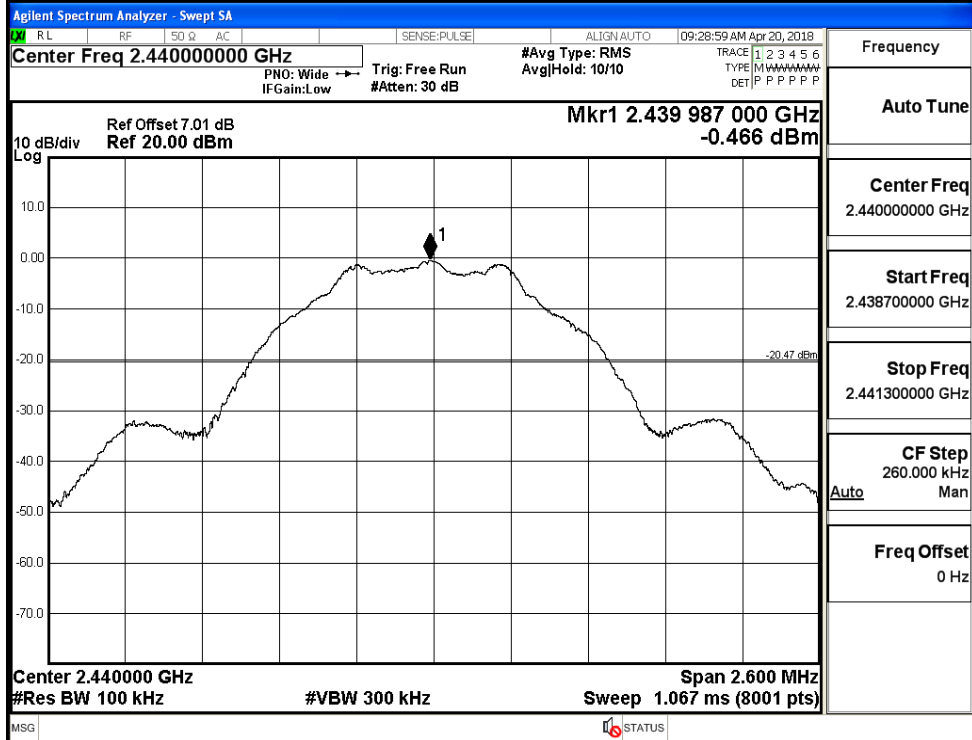




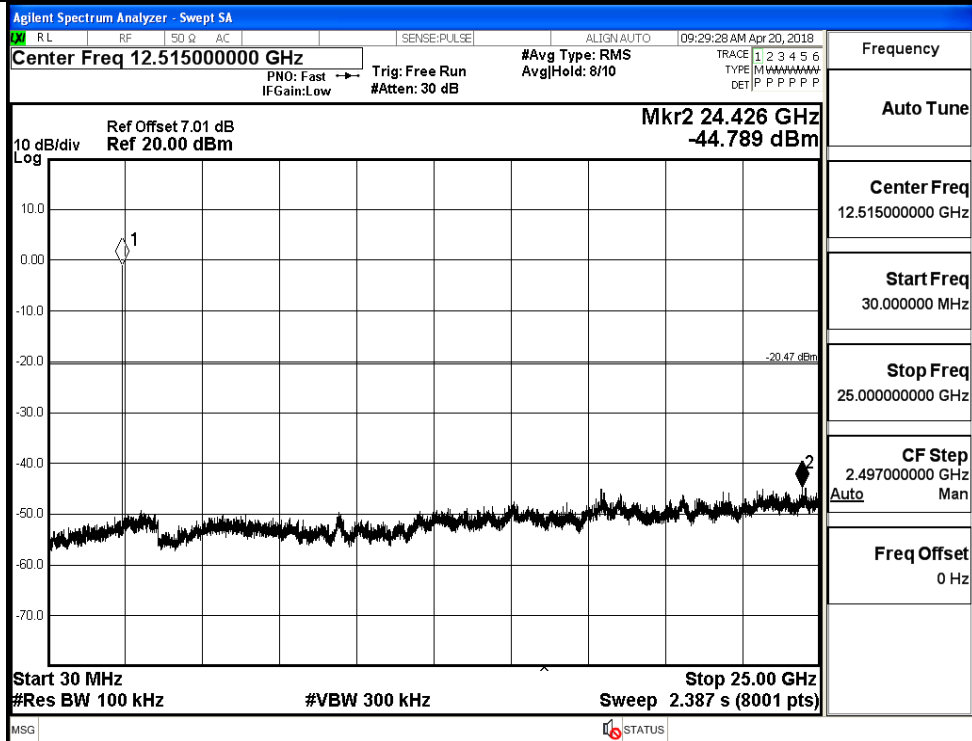
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## BT LE\_MCH\_Graphs

Pref/BT LE/MCH

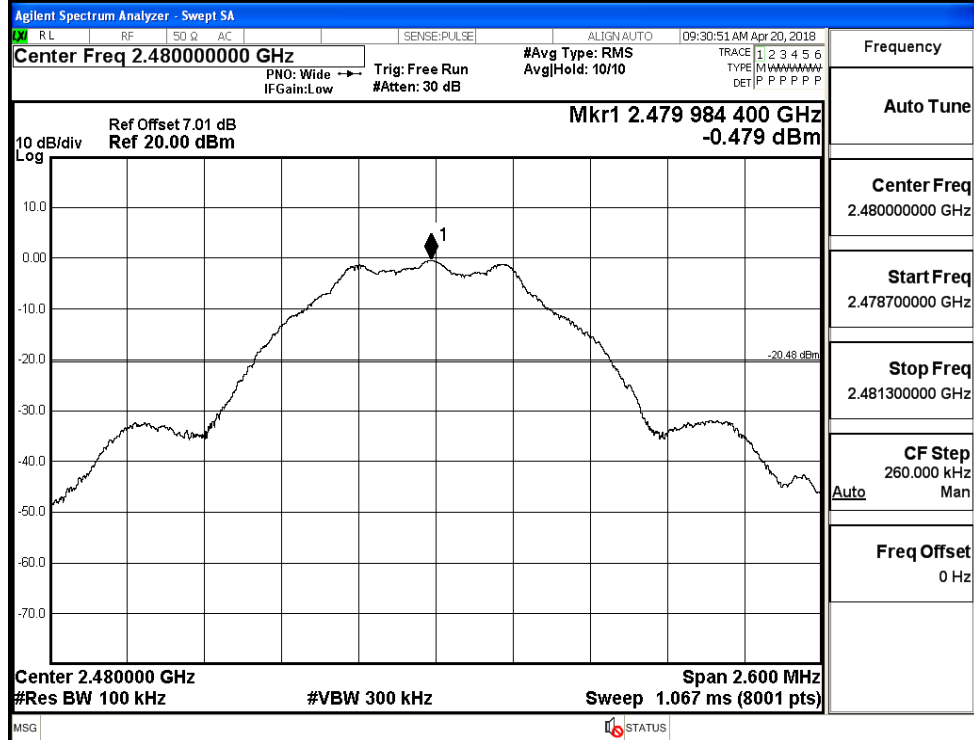


Puw/BT LE/MCH

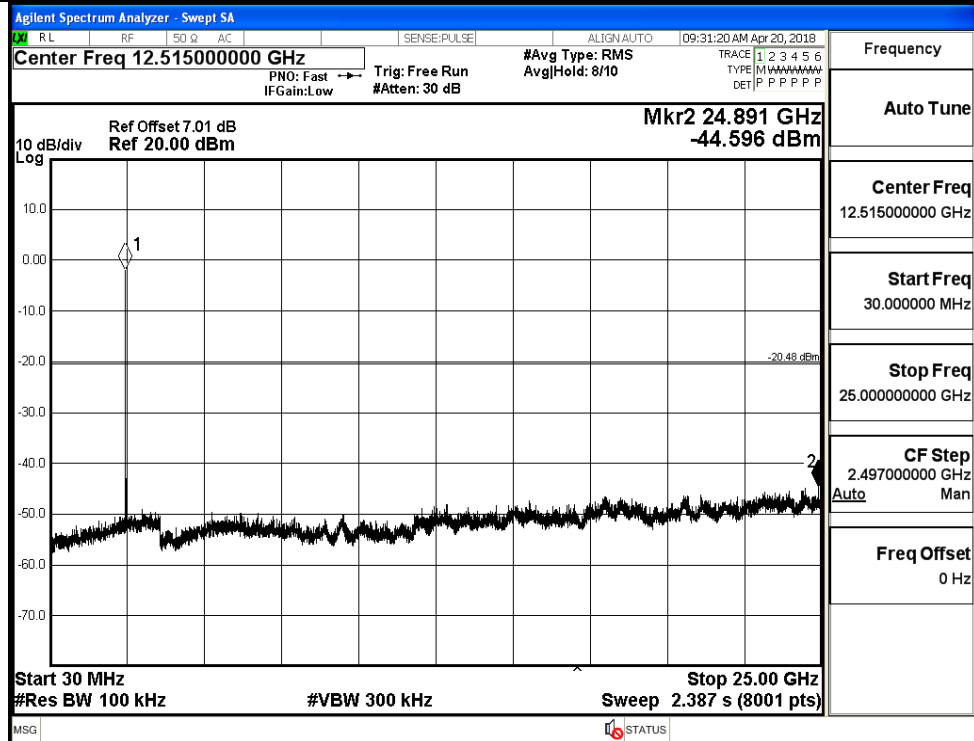


## BT LE\_HCH\_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

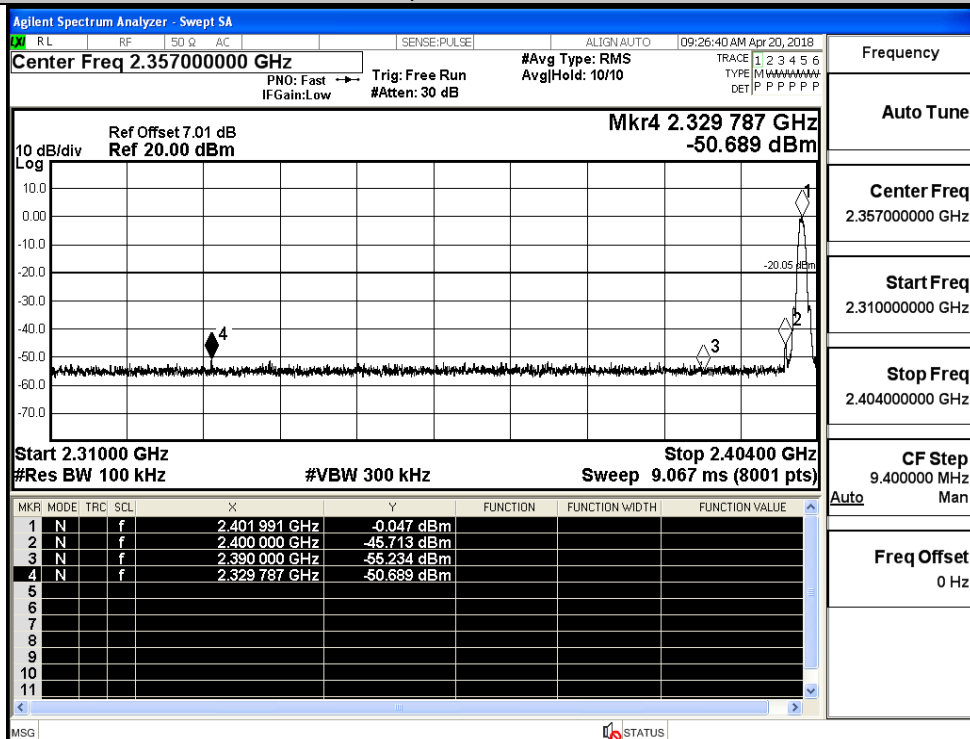


## B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.047	-50.689	-20.05	PASS
BT LE	HCH	-0.318	-43.351	-20.32	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

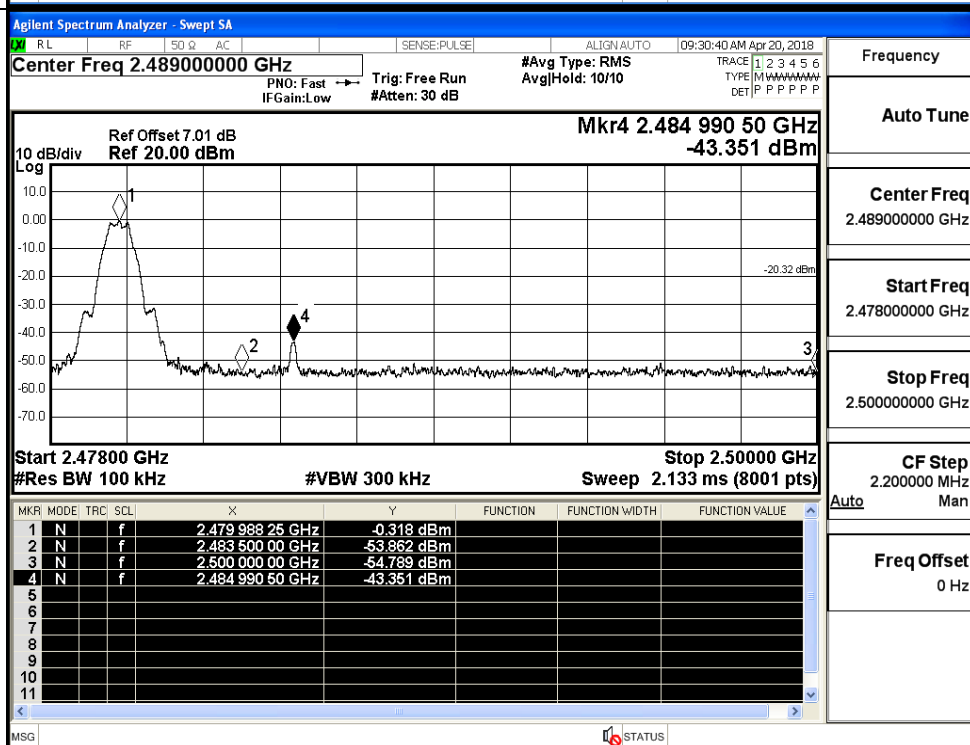
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

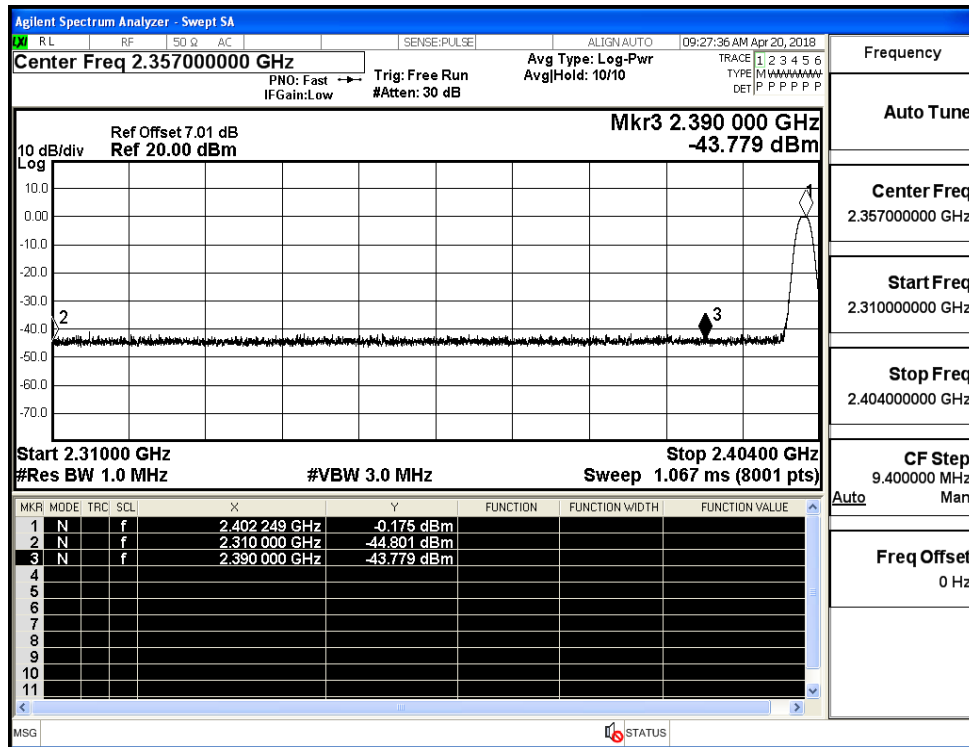
Freq Offset

0 Hz

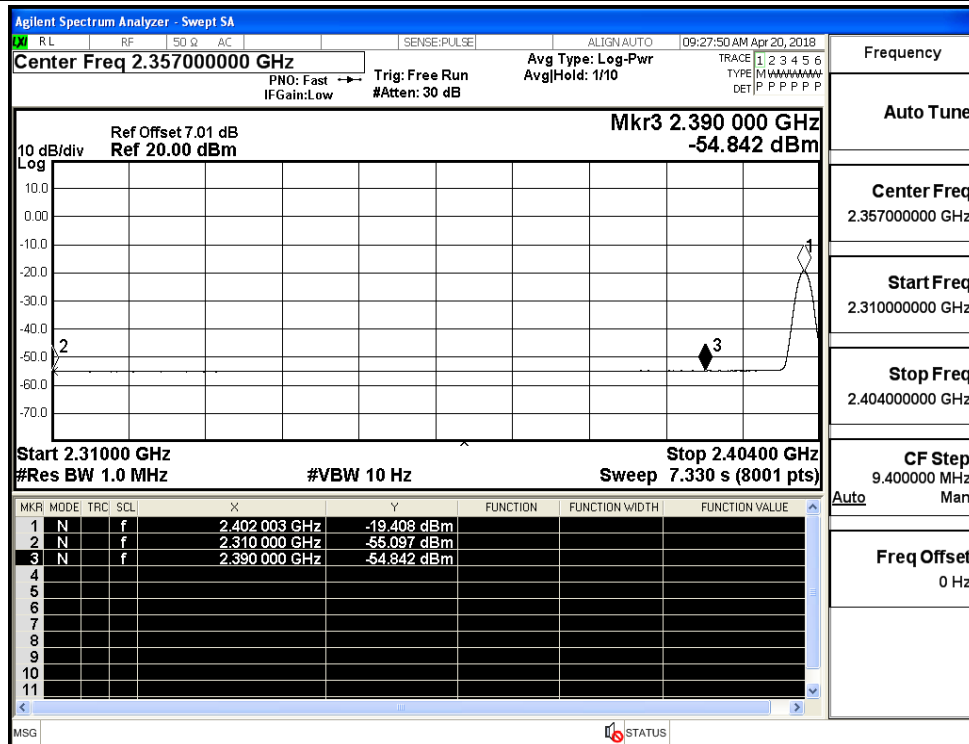
**B.7 Restrict-band band-edge measurements**

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	-44.80	2.0	0	50.46	PEAK	74	PASS
		Ant1	2310.0	-55.10	2.0	0	40.16	AV	54	PASS
		Ant1	2390.0	-43.78	2.0	0	51.48	PEAK	74	PASS
		Ant1	2390.0	-54.84	2.0	0	40.42	AV	54	PASS
	2480	Ant1	2483.5	-43.43	2.0	0	51.83	PEAK	74	PASS
		Ant1	2483.5	-54.52	2.0	0	40.74	AV	54	PASS
		Ant1	2500.0	-43.57	2.0	0	51.69	PEAK	74	PASS
		Ant1	2500.0	-54.47	2.0	0	40.79	AV	54	PASS

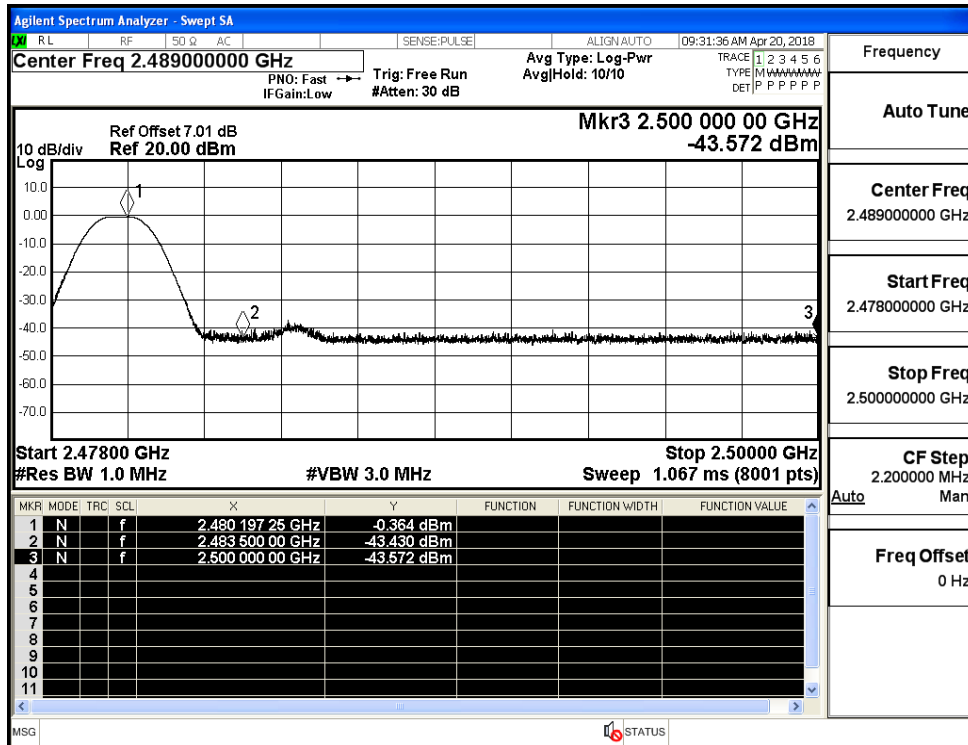
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

