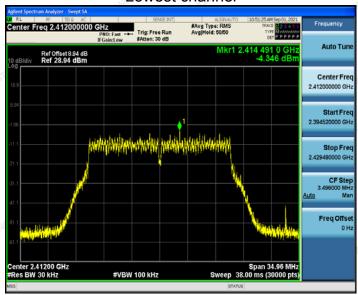
AKTES !!

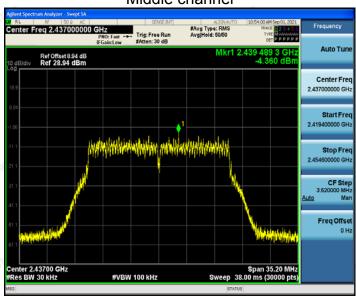
802.11ac(HT20) Modulation

Lowest channel

Report No.: HK2108303184-1E



Middle channel



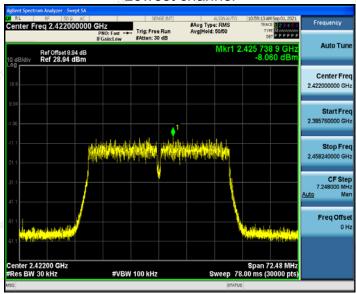
Highest channel



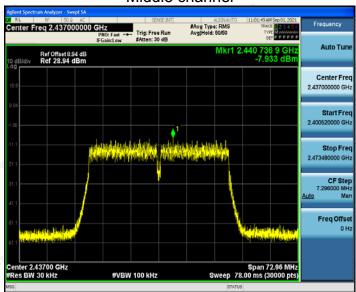
802.11ac (HT40) Modulation

Lowest channel

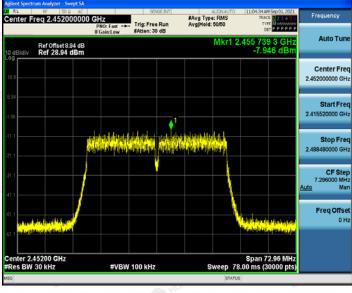
Report No.: HK2108303184-1E



Middle channel



Highest channel

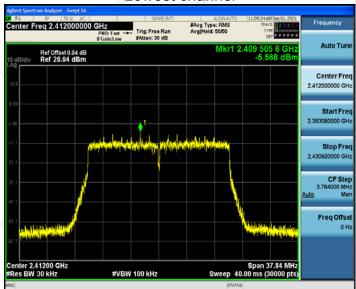


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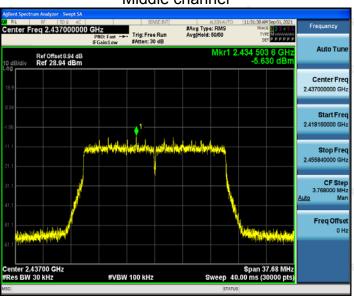
802.11ax(HT20) Modulation

Lowest channel

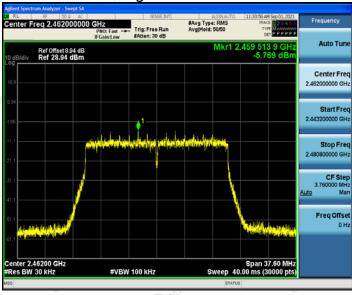
Report No.: HK2108303184-1E



Middle channel



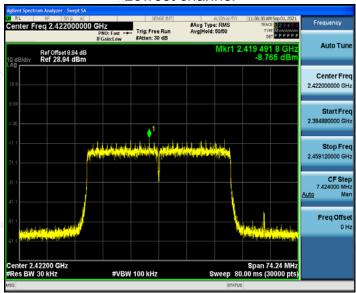
Highest channel



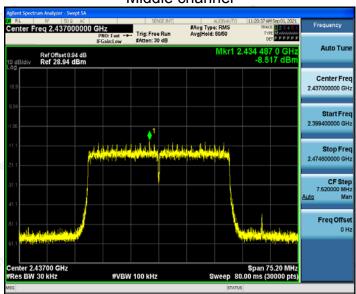
802.11ax (HT40) Modulation

Lowest channel

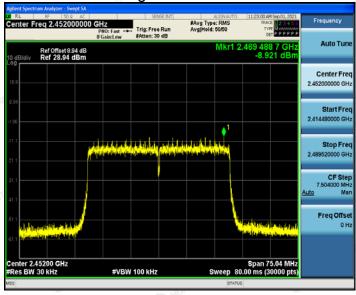
Report No.: HK2108303184-1E



Middle channel



Highest channel





For MIMO antenna port 1+antenna port 2

WITES IN WHARTES	TX 802.11b Mode	O HURY	M. HUANTES	
Frequency	Power Density (dBm)	Limit (dBm)	Result	
2412 MHz	1	8		
2437 MHz	LAKTESTING /	I mg		
2462 MHz	I HUANTES	8	HUNTESTA	
.w	TX 802.11g Mode	N. TESTING		
2412 MHz	TESTING VESTING	8	ESTING / KTESTIN	
2437 MHz	Market I Market	8 NHUAM	O HOS	
2462 MHz	1	8	1	
STING	TX 802.11n/HT20 Mode	e vrtest	ING ATEST	
2412 MHz	-2.191	6.0	PASS	
2437 MHz	-1.866	6.0 TESTING	PASS	
2462 MHz	-1.797	6.0	PASS	
-	TX 802.11n/HT40 Mode	e TESTING		
2422 MHz	-4.938	6.0	PASS	
2437 MHz	-4.788	6.0	PASS	
2452 MHz	-5.276	6.0	PASS	
ESTING	TX 802.11ac/HT20 Mod	e (S	ING TEST	
2412 MHz	-1.458	6.0	PASS	
2437 MHz	-1.497	PASS		
2462 MHz	-1.383 6.0		PASS	
*	TX 802.11ac/HT40 Mod	e _{TESTING}		
2422 MHz	-5.085	6.0	PASS	
2437 MHz	-5.023	6.0 MUNI	PASS	
2452 MHz	-5.029	6.0	PASS	





AK TESTIL	HUAKTES	TX 802.11ax/HT20 Mod	de HUMAN	TESTI	
	2412 MHz	-1.913	6.0	PASS	
TING	2437 MHz	-2.635	6.0	PASS	
Co	2462 MHz	-2.186	6.0	PASS	
3		TX 802.11ax/HT40 Mod	de		
	2422 MHz	-5.164	6.0	PASS	
6	2437 MHz	-5.194	6.0	PASS	
	2452 MHz	-5.974	6.0	PASS	

Note: 1 According to KDB 662911, Result power = 10log(10(ant1/10+10(ant2/10)). 2 Result unit: W, The end result is converted to units of dBm. limit=8dBm-(direction gain-6dBi)=8-(5+10log2-6)=6.0dBm

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac/ax for MIMO mode, not support 802.11 b and 802.11 g for MIMO mode.

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4.5. Conducted Band Edge and Spurious Emission Measurement

4.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (d)	
Test Method:	KDB558074	HLAKTESTIN	HUAKTESTI
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).		
Test Setup:	Spectrum Analyzer	EUT	WAYTESTA
Test Mode:		nodulation	-
Test Procedure:	 Transmitting mode with modulation The testing follows FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded 		
Test Result:	PASS	TING	TIN



4.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	Dec. 09, 2021		
Signal generator	Agilent	N5183A	HKE-071	Dec. 10, 2020	Dec. 09, 2021		
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 10, 2020	Dec. 09, 2021		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	Dec. 09, 2021		

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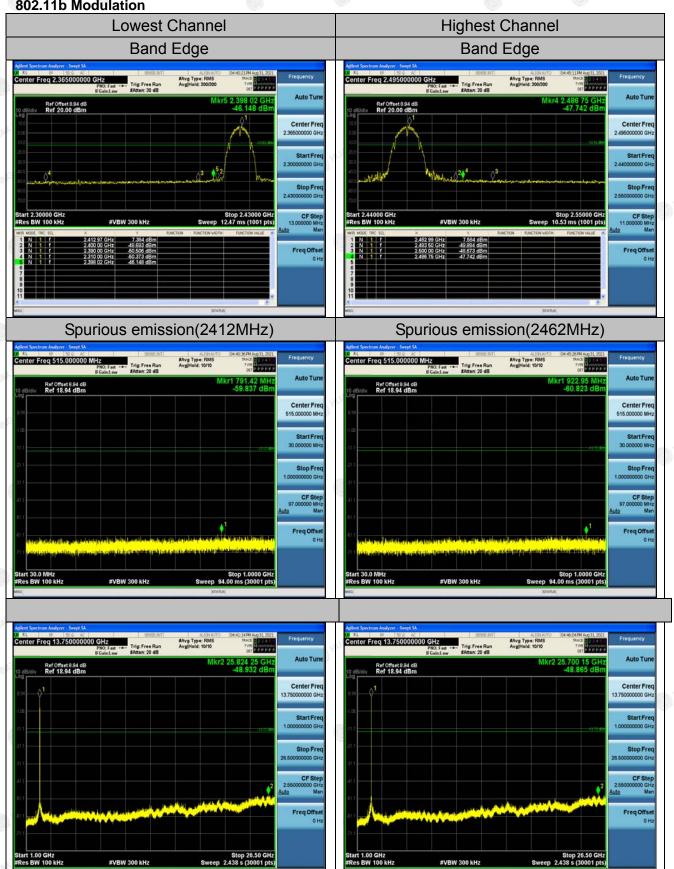
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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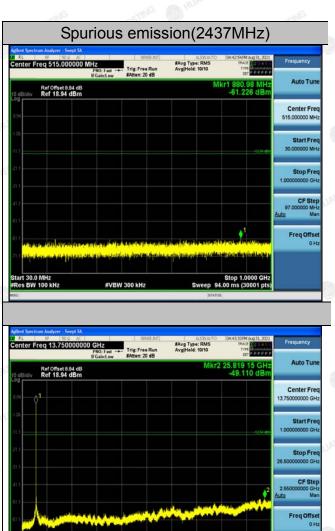
HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



4.5.3. Test Data Chain 1 802.11b Modulation

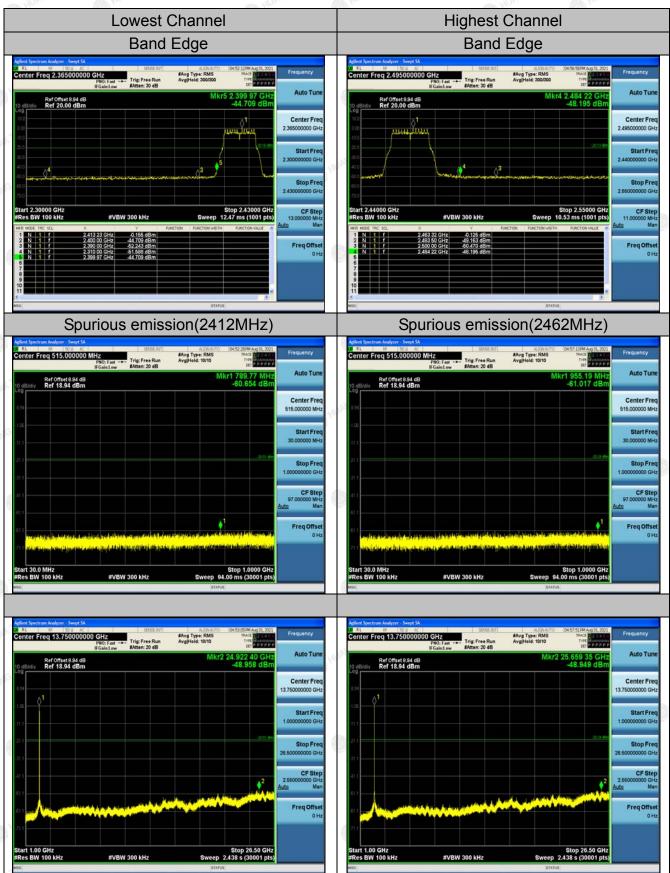


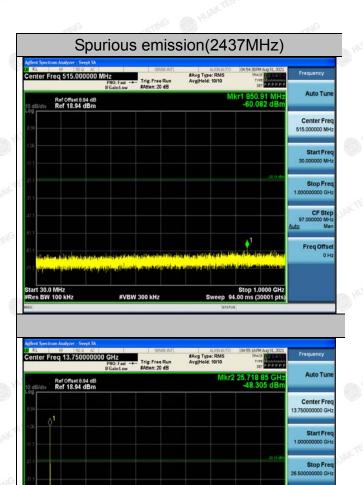






802.11g Modulation

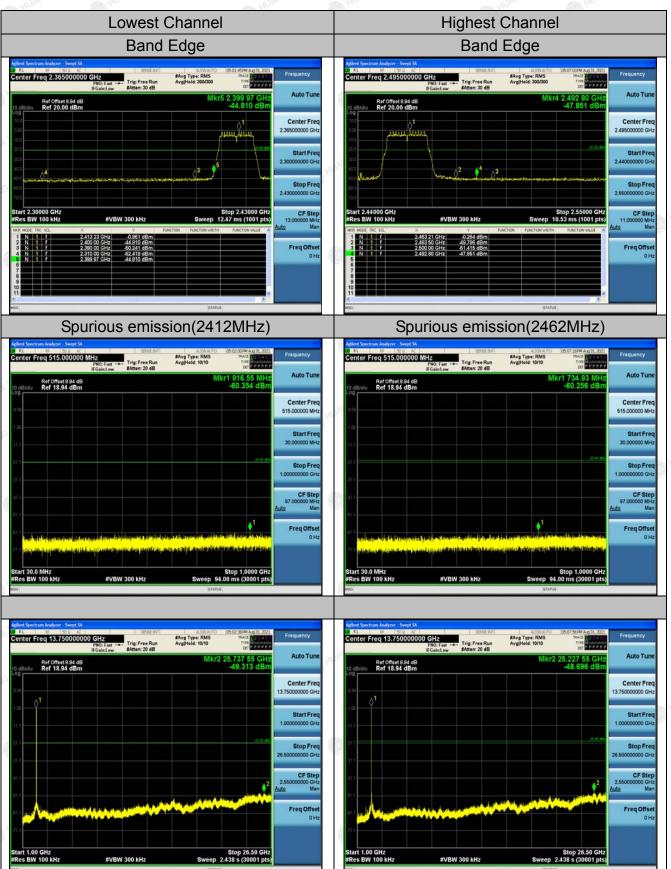


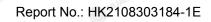


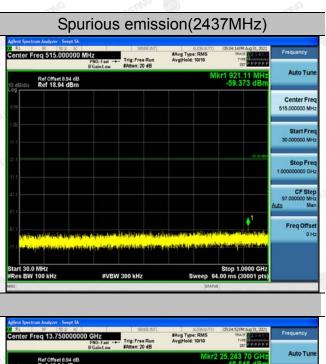
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802.11n (HT20) Modulation

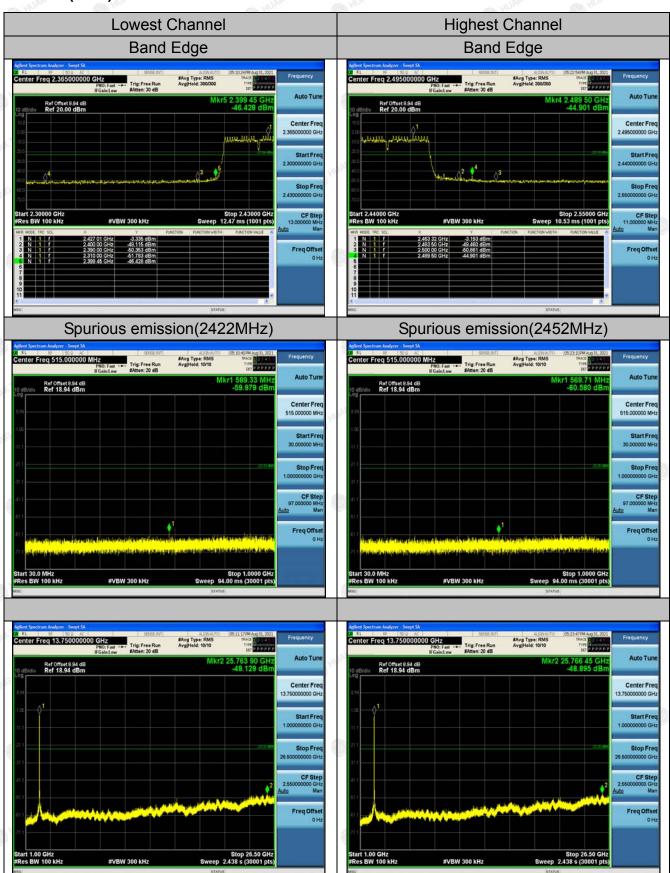


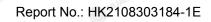


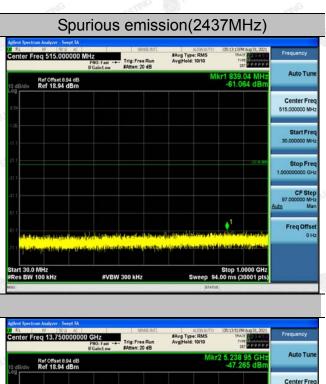




802.11n (HT40) Modulation



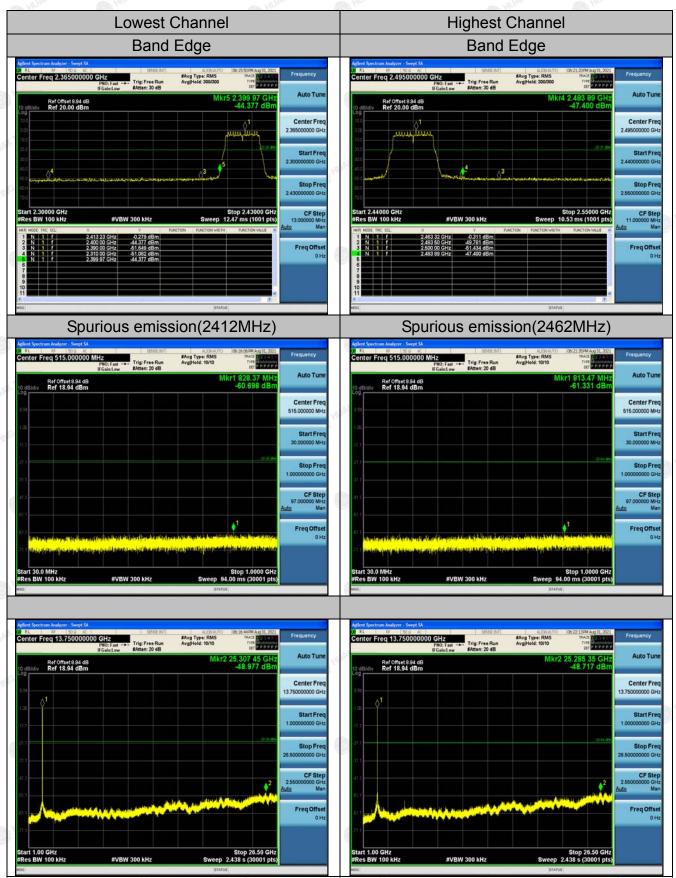


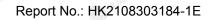


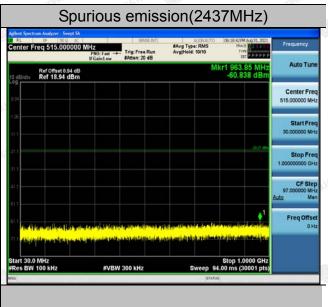




802.11ac (HT20) Modulation

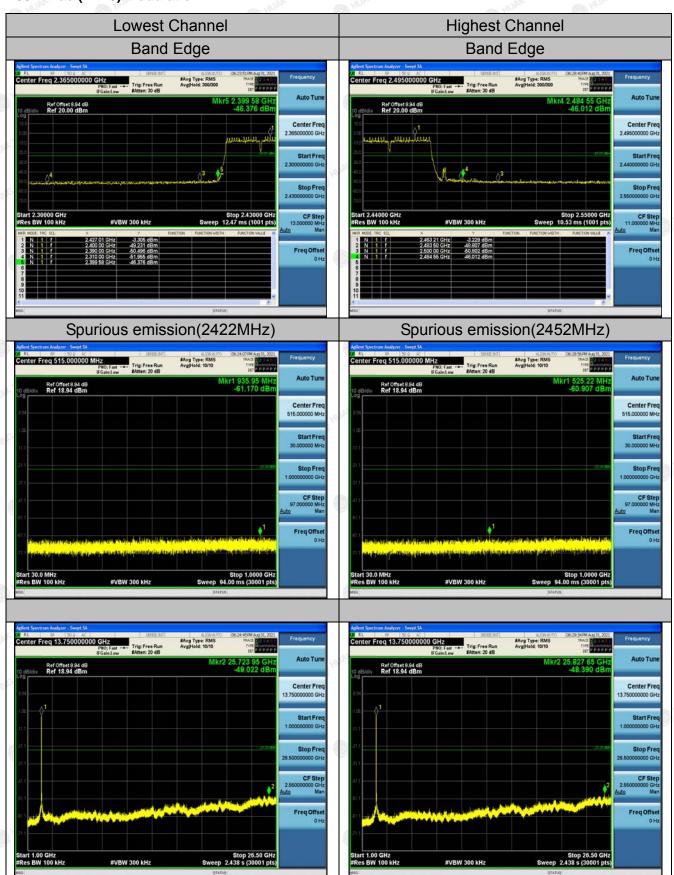


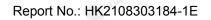


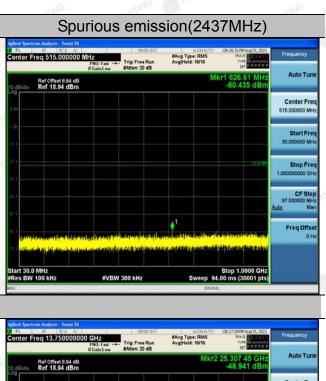




802.11ac (HT40) Modulation



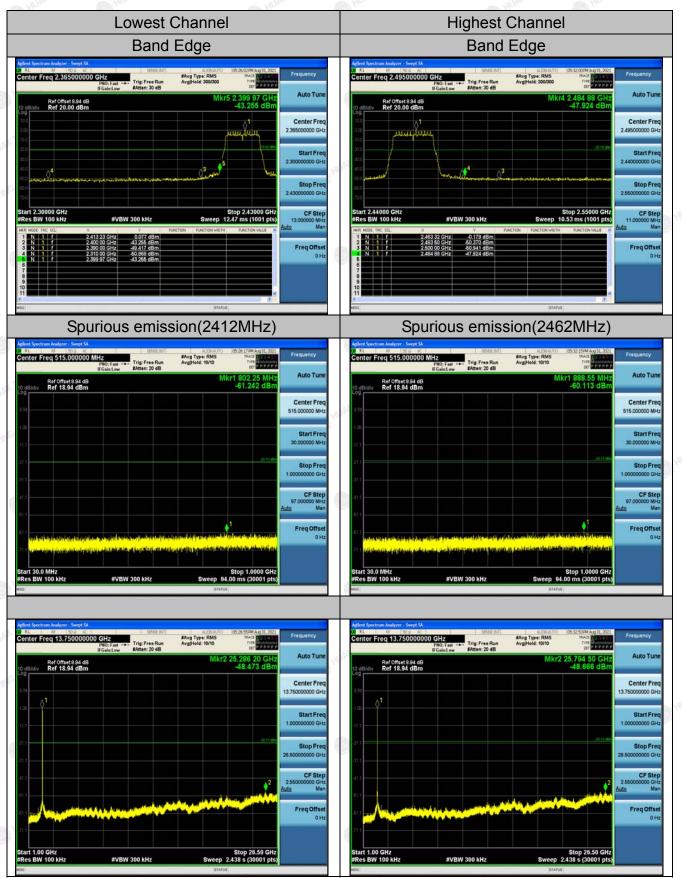


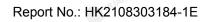


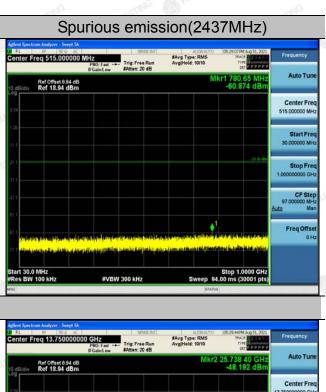




802.11ax (HT20) Modulation



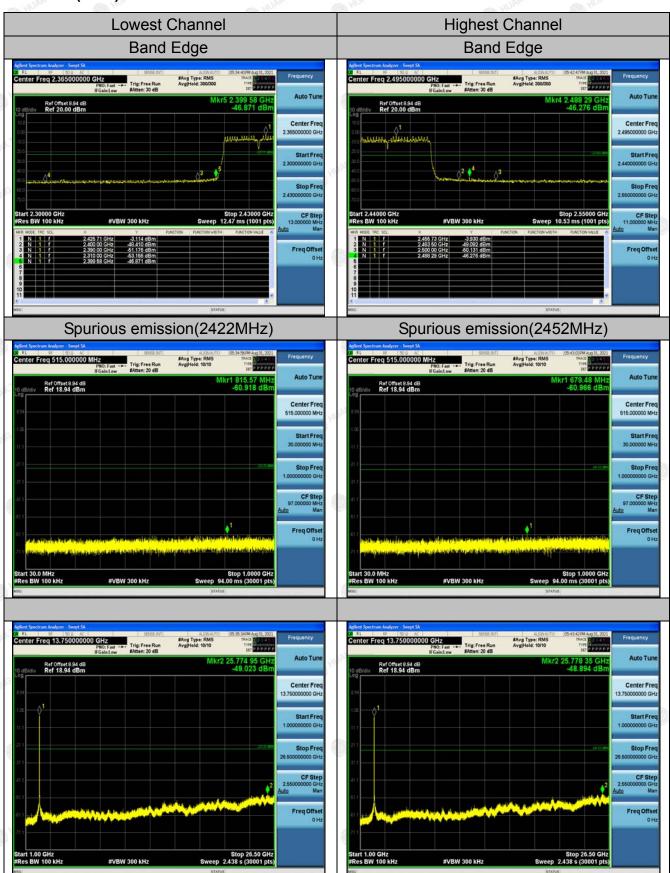


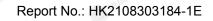


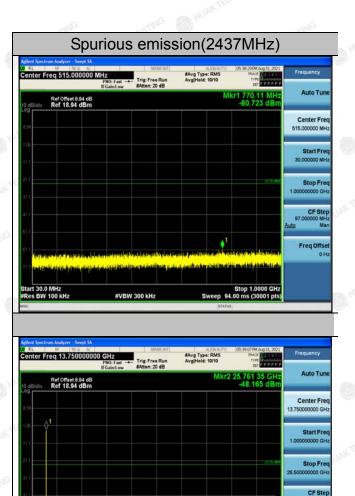




802.11ax (HT40) Modulation







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Chain 2 802.11b Modulation

