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Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi1



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6.5. Conducted Band Edge and Spurious Emission Measuremente Contact with WSCT www.wsct-cert.com

6.5.1. Test Specification

0.	5.1. Test Specification	T WSLT		<u>W5E7</u>
[Test Requirement:	FCC Part15 C Section 15.247 (d)	\mathbf{X}	
	Test Method:	KDB558074		
	Limit: 7 W5E	In any 100 kHz bandwidth outs frequency band, the emission non-restricted bands shall be atte 30dB relative to the maximum PS RF conducted measurement ar which fall in the restricted bands, 15.205(a), must also comply with limits specified in Section 15.209(s which fall in the nuated at least 20 dB / SD level in 100 kHz by nd radiated emissions , as defined in Section the radiated emission	WISLI
	Test Setup:	Spectrum Analyzer	EUT	
7	Test Mode:	Transmitting mode with modulatio	n	
СТ	WISET WISE	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. 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. 		
T	Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. 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 		
	WISTET WIST	 maximum peak conducted out used. If the transmitter complie power limits based on the use a time interval, the attenuation paragraph shall be 30 dB inster 15.247(d). 5. Measure and record the results 	es with the conducted of RMS averaging over required under this ad of 20 dB per	WEI
	\mathbf{X}	 The RF fundamental frequency against the limit line in the ope 	should be excluded	$\mathbf{\mathbf{\nabla}}$
	Test Result:	PASS	WSET	wsc
Cotific	Sance Sound Care			

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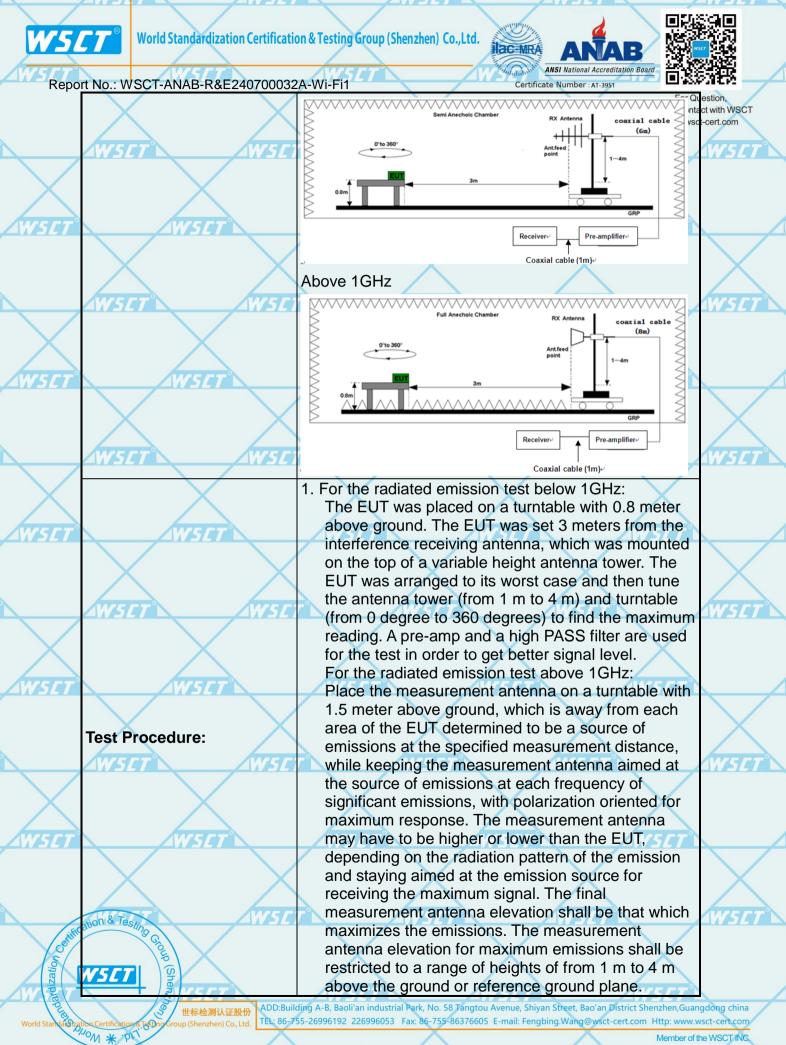
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6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

9	.6.1. Test Specification		
\mathbf{X}	Test Requirement:	FCC Part15 C Section 15.209	
NSET	Test Method:	ANSI C63.10: 2014	
	Frequency Range:	9 kHz to 25 GHz	
	Measurement Distance:	3 m	\wedge
	Antenna Polarization: 450	Horizontal & Vertical	<u>(5C1</u>
\bigvee	Operation mode:	Transmitting mode with modulation	
NSET	WISET	FrequencyDetectorRBWVBWRemark9kHz- 150kHzQuasi-peak200Hz1kHzQuasi-peakValue	
	Receiver Setup:	150kHz- 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz 20MHz 200KHz 200KHz Quasi-peak Value	$\overline{\checkmark}$
	WSET WSE	30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value Above 1GHz Peak 1MHz 3MHz Peak Value Peak 1MHz 10Hz Average Value	ात
X		Frequency Field Strength (microvolts/meter) Measurement Distance (meters) 0.009-0.490 2400/F(KHz) 300	
NSET	WSET	0.490-1.705 24000/F(KHz) 30 57 7	
		1.705-30 30 30 30-88 100 3 88-216 150 3	\times
	Limit: W5C	216-960 200 3 Above 960 500 3	15E1
WISLET	WISET	Field Strength (microvolts/meter) Measurement Distance (meters) Detector	
		Above 1GHz 500 3 Average 5000 3 Peak	\checkmark
	WEET	For radiated emissions below 30MHz	
WISTER	WISTT	Distance = 3m	
	Test setup:	EUT 0.8m Turn table Receiver	
Cotiff	and oung c	30MHz to 1GHz	
ardization	WSCT WSCT	WSET WSET WSET	
Vorld Standardz	ADD:Buik ation Certifications, Techno Group (Shenzhen) Co., Ltd. TEL: 86-79	iilding A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen,Guangdon 755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-ce	
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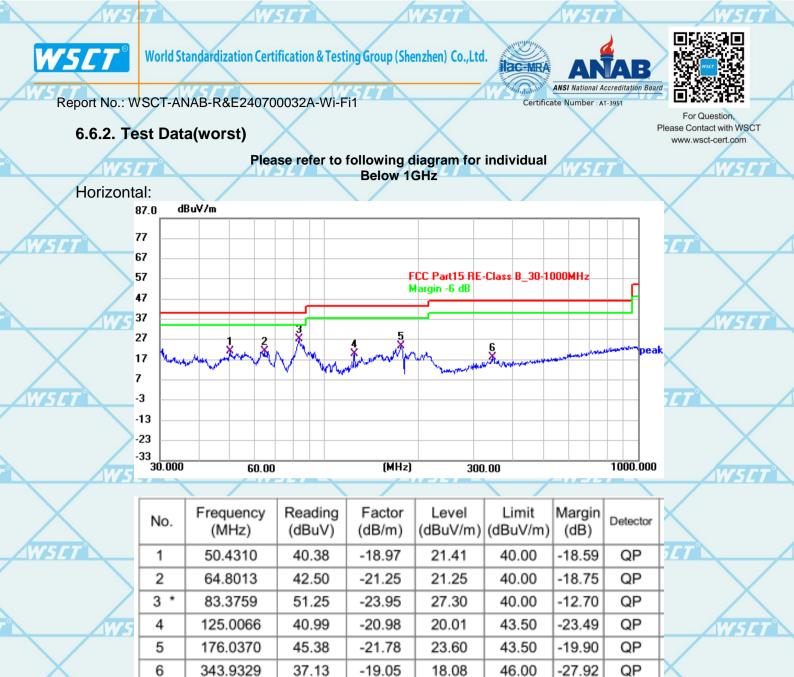


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World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd. AC-MR Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi1 3. Corrected Reading: Antenna Factor + Cable Loss Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the guasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;</p> Sweep = auto; Detector function = peak; Trace = max hold: (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Test results: PASS Note 1: The symbol of "--" in the table which means not application. For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for Note 2: both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement. The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which Note 3: was 20 dB lower than the limit line per 15.31(o) was not reported. The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and Note 4: normal link mode is worst.

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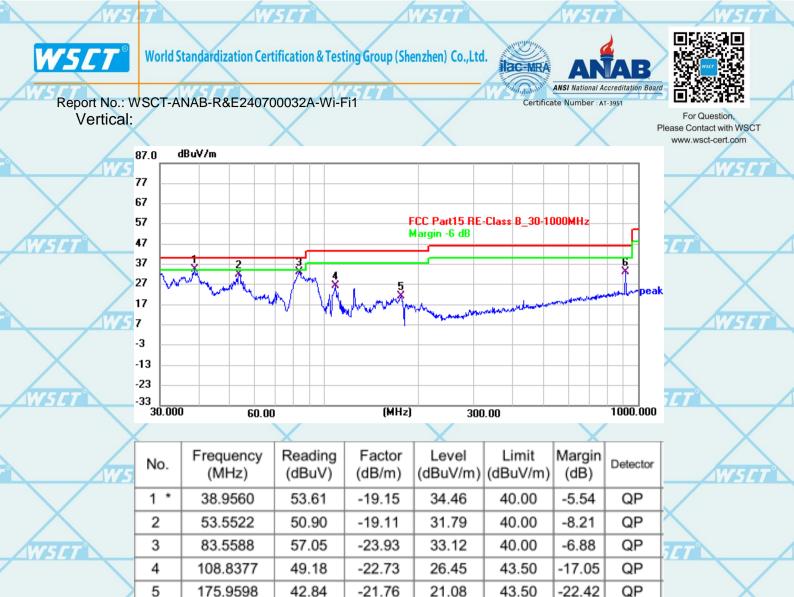
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## Note1:

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Freq. = Emission frequency in MHz

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Reading level  $(dB\mu V) = Receiver reading$ 

912.4620

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB) Limit (dB $\mu$ V) = Limit stated in standard

43.07

-9.84

33.23

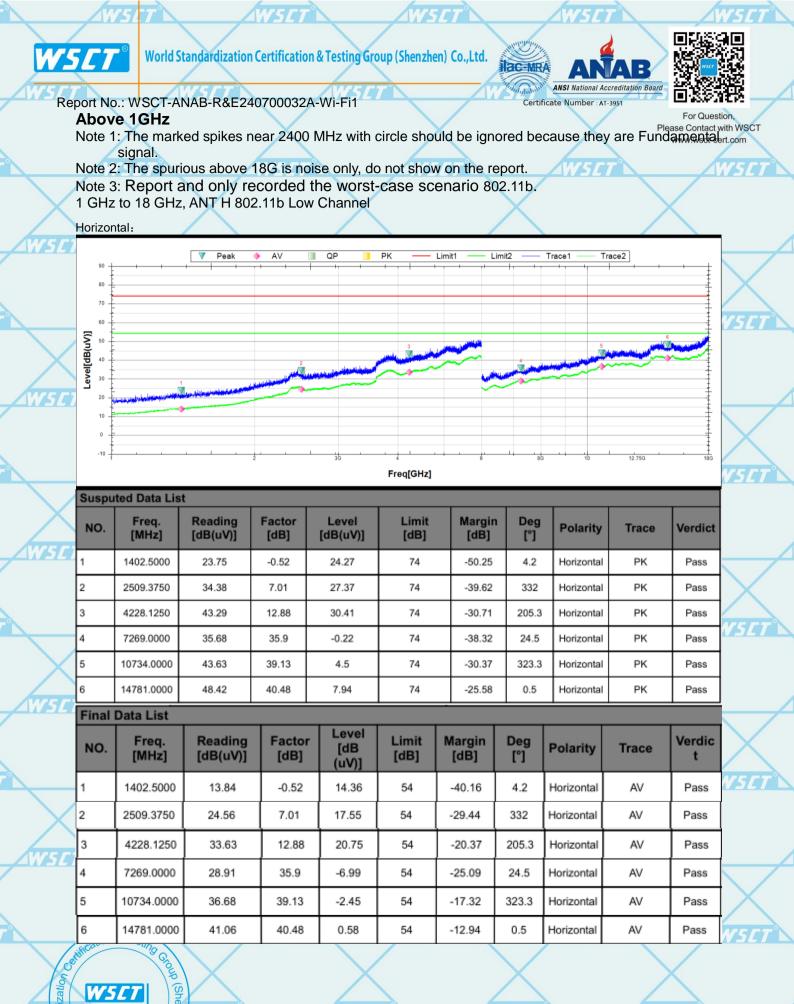
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Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

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