



World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

WSCT



Report No.: WSCT-ANAB-R&E240700034A-LE

WSC

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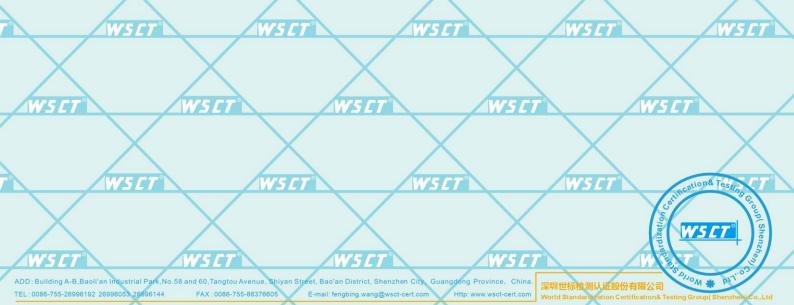
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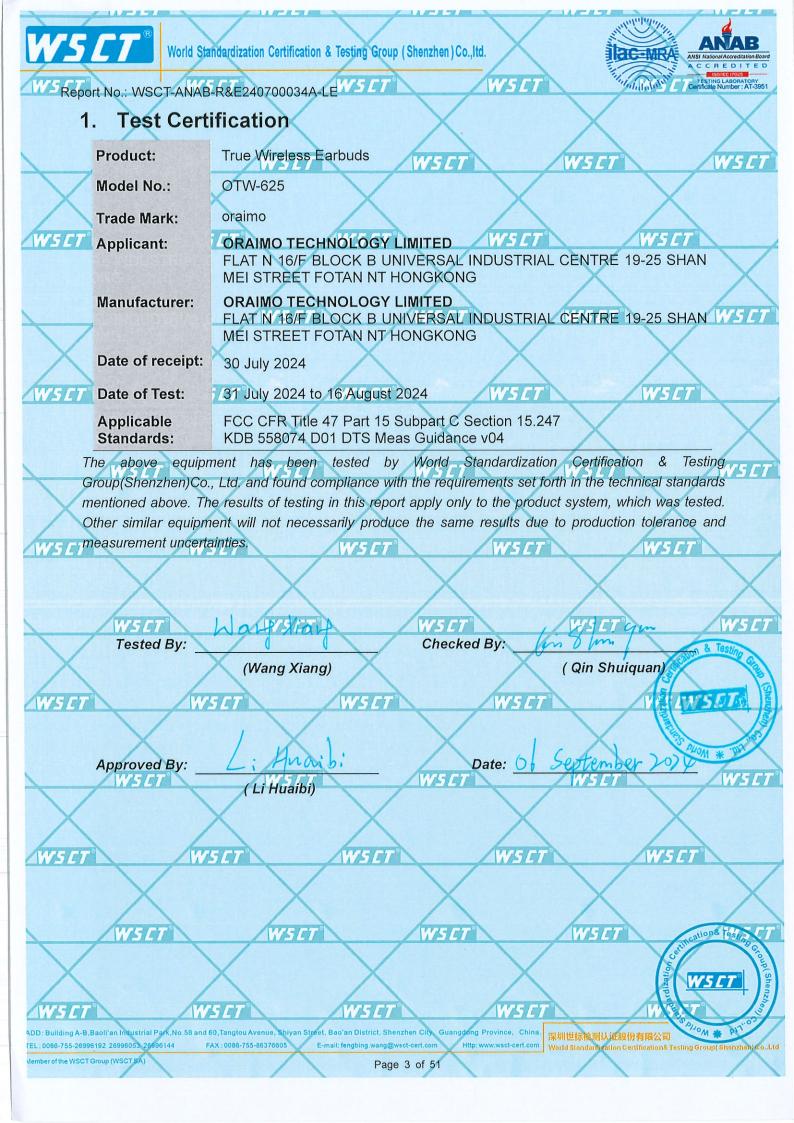
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## 2. Test Result Summary

	Requirement	CFR 47 Section	Result	WSET
	Antenna requirement	§15.203/§15.247 (c)	PASS	
WSET	AC Power Line Conducted Emission	<b>W5</b> [T §15.207 <b>W5</b> [T	N/AWSET	$\checkmark$
	Maximum conducted output		PASS	WSET
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
WSCT <sup>®</sup>	Power Spectral Density	§15.247 (e)	PASS	$\searrow$
	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS WS CT	WSET
	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
WSCT	Note: WSLT	WSCT WSCT	WSET	$\leftarrow \neq$
	1. PASS: Test item meets the requir		$\times$	$\mathbf{X}$
	<ol> <li>Fail: Test item does not meet the</li> <li>N/A: Test case does not apply to</li> </ol>		WSET	WSET
	4. The test result judgment is decide			
WSET	WSET	WSET WSET	WSET	
	WSET WSE	$\langle \rangle$	WSET	WSET
WSET	WSET	WSET WSET	WSET	
	WSCT WSL	$\langle \rangle$	WSET	& Tester
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#### **Operation Frequency each of channel**

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	W5 []
$\checkmark$	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz	
5 <i>CT</i> °		WELT		WELT		WISCT		WETT	
	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	$\mathbf{X}$
	Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.				
	<b>WSET</b>		ZWSC1		ZWSE	7"	<b>WSE</b>	7	WSC1

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WSC WSC WSC WSC WSC WSC7 WSCI WSET WSCI WSC WS CT WSET WSET WSC1 WSE WSE1 WSET WSE1 WSC WSCI WSE WSE WSE WSE WSE W5C1 WSCI WSC WSC1 WS C1 WSET WSET WSET WSET WSCI WSC WSE W5C1 tion& Test WSCI WSC7

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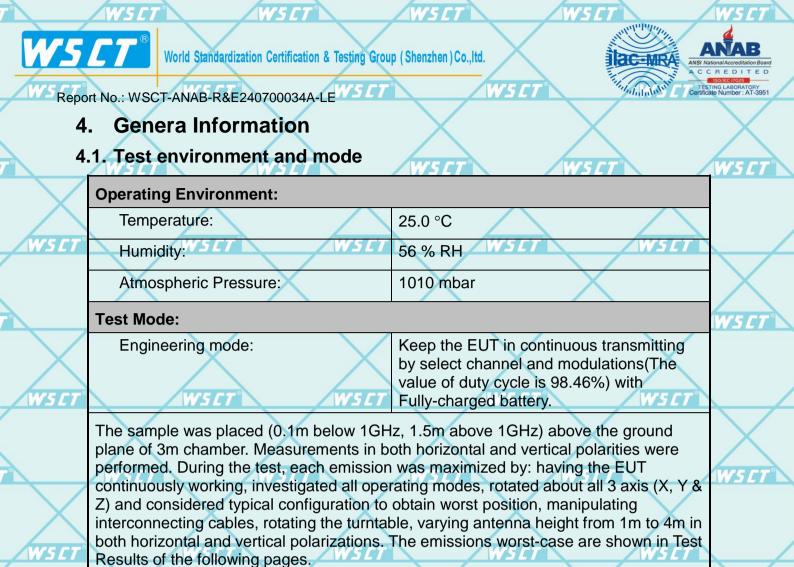
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### 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

7	Equipment	Model No.	Serial No.	FCC ID	Trade Name
				/	Χ Ι

Note:

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All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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## Facilities and Accreditations

## 5.1.Facilities

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All measurement facilities used to collect the measurement data are located at World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 5.2. ACCREDITATIONS

#### **CNAS - Registration Number: L3732**

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been WSL accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

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#### ANAB - Certificate Number: AT-3951

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The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951

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### 5.3. Measurement Uncertainty

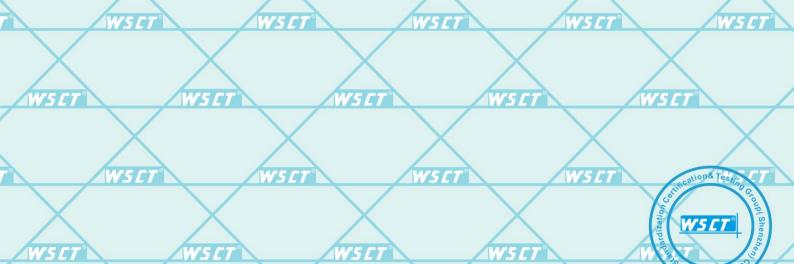
The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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	connue	lice of approximately 95 %.		•
	No.	Item	MU	
WS CT°	1	Power Spectral Density	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	$\mathbf{X}$
	3 W 5 C	Medium Utilisation Factor	±1.3%	WS CT
$\sim$	4	Occupied Channel Bandwidth	±2.4%	
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	
WSET	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
	7	Receiver Spurious Emissions	±2.5%	$\times$
	8w5C	Conducted Emission Test	±3.2dB	WS CT
	9	RF power, conducted	±0.16dB	
	10	Spurious emissions, conducted	±0.21dB	
WSET	11	All emissions, radiated(<1GHz)	±4.7dB	
	12	All emissions, radiated(>1GHz)	±4.7dB	$\mathbf{X}$
	13 <u>75 (</u>	Temperature WSCT WSCT WS	±0.5°C	WSET
	14	Humidity	±2.0%	



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# **5.4.MEASUREMENT INSTRUMENTS**

					$\wedge$		$\wedge$
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	15 <b>C</b> T
Х	Test software		EZ-EMC	CON-03A	-	X	
с <i>г</i>	Test software		MTS8310	WECT		VECT	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	$\mathbf{X}$
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	<b>15 ET</b>
$\times$	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
5 C	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	$\bigtriangledown$
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	$\wedge$
	Pre Amplifier	H.B.CT	HP8447E	2945A02715	11/05/2023	11/04/2024	VS CT°
$\checkmark$	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
$\wedge$	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
5 C I	9*6*6 Anechoic / S	<b>[7</b> ] 1	VSET	WSCT®	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	$\times$
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	<b>V5CT</b> °
Х	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
57	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
	Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	$\times$
	Loop Antenna	EMC07	6502 W 5 /	7 00042960	11/05/2023	11/04/2024	VSCT
V	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
50	Power sensor	CT Anritsu	MX248XD	WSET <sup>®</sup>	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	$\times$

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# 6. Test Results and Measurement Data

## 6.1. Antenna requirement

$\times$	Standard requirement:	FCC Part15 C Section 1	5.203 /247(c)	X
WSET	15.203 requirement: An intentional radiator shall b	e designed to ensure the	t no antenna other than	that 7
	furnished by the responsible permanently attached antenn intentional radiator, the manu can be replaced by the user,	party shall be used with t a or of an antenna that u facturer may design the	the device. The use of uses a unique coupling to unit so that a broken and	a o the cenna
WSET	connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2 Point-to-point operations may	400-2483.5 MHz band th employ transmitting ant	nat is used exclusively fo ennas with directional g	or fixed. ains c7
	greater than 6dBi provided th radiator is reduced by 1 dB for exceeds 6dBi.			
	E.U.T Antenna:	<b>7 W</b> 5 <i>CT</i> <b>1</b>	WSCT <sup>®</sup>	WS CT
	The Bluetooth antenna is a P gain of the antenna is 2.59dB	IFA Antenna. it meets the i.	$\frown$	$\Delta$
<b></b>	WSET	WSET <sup>®</sup>	WS ET	WS CT°
	WSET WSE	TWSET	WSET	WSET
WSET	WSET	WSET	$\mathbf{X}$	WSET
	WSET WSE	$\square$	WSET	WSET
WSET	WSET	WSET	WSET	WSET
	WSET WSE	$\langle X \rangle$	WSET	$\times$
WSET	WSET	WSET	WSET	Cathering Composition Composition

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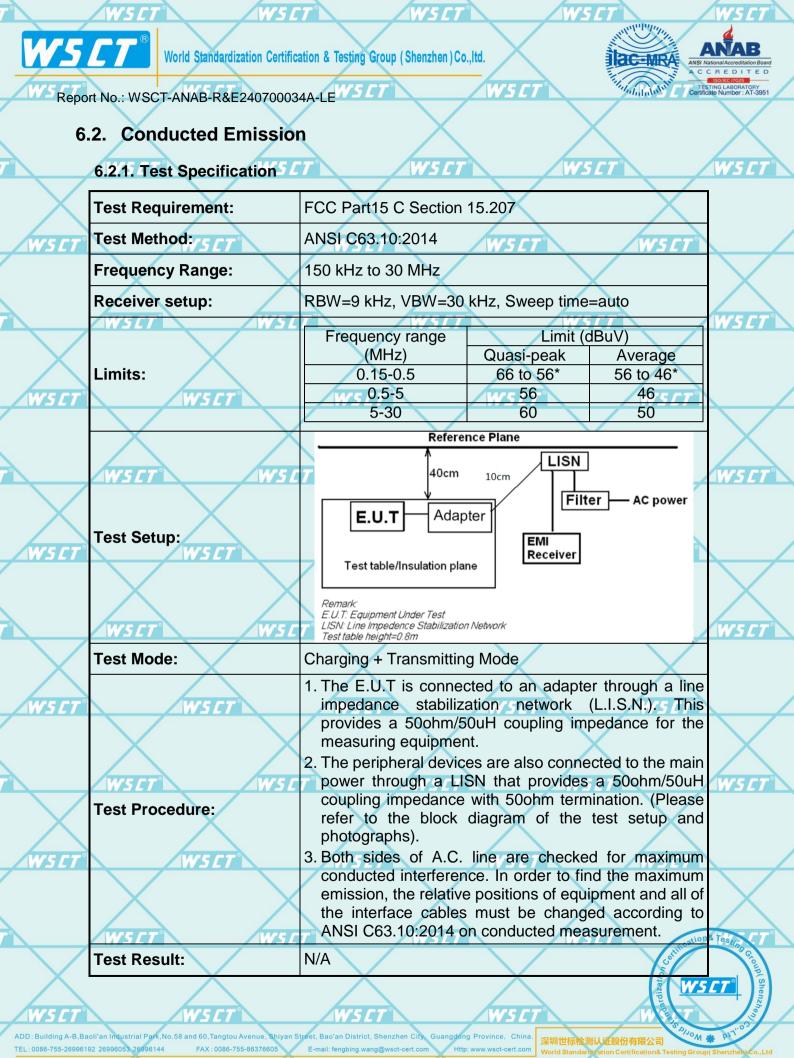
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#### 6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is W5 [7] worst.

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Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

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Test data

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Note: EUT powered by battery not applicable ws m

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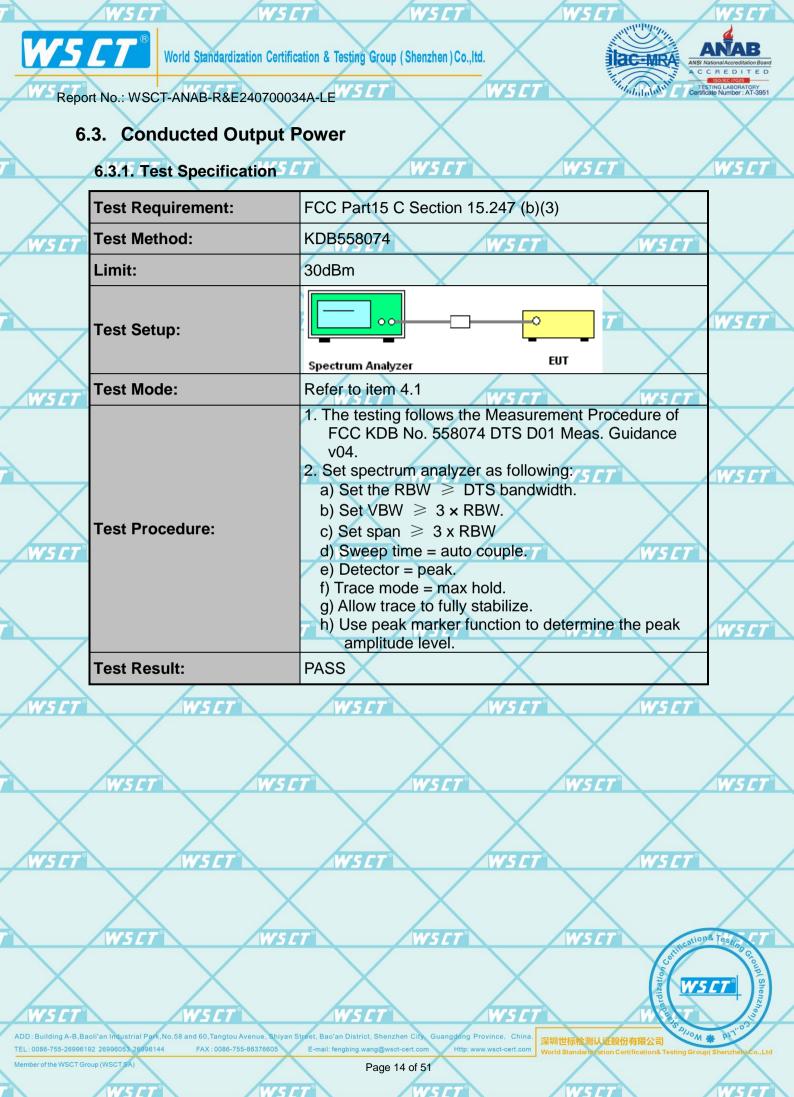
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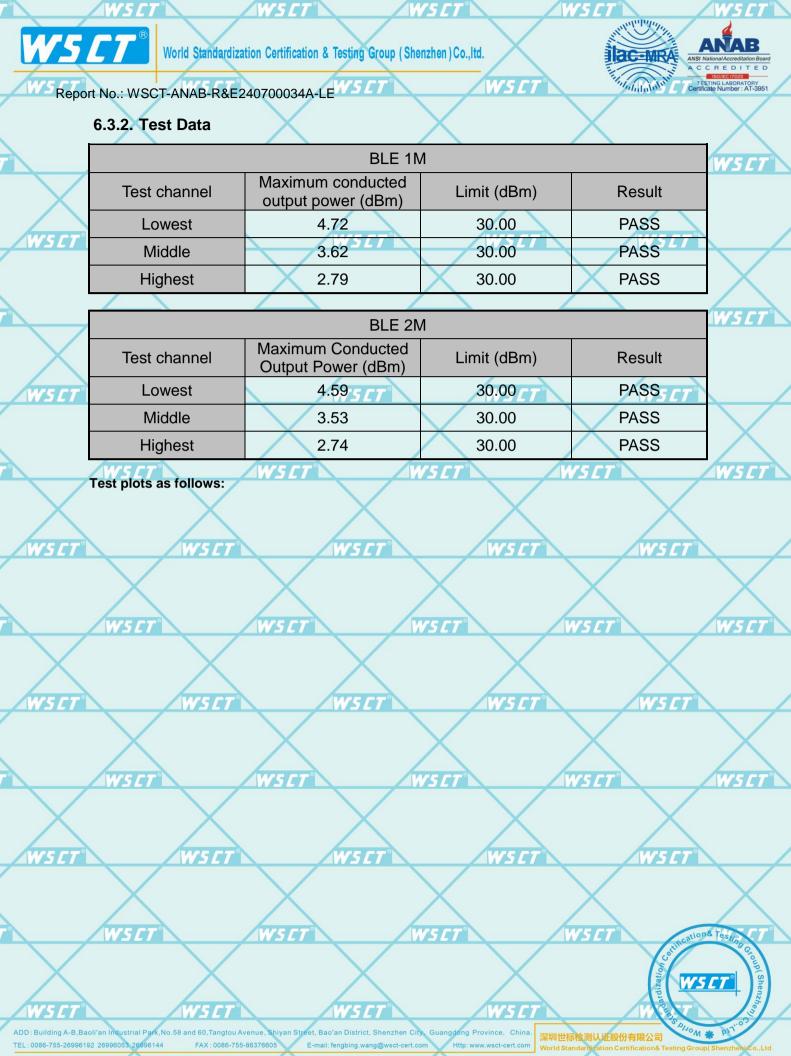
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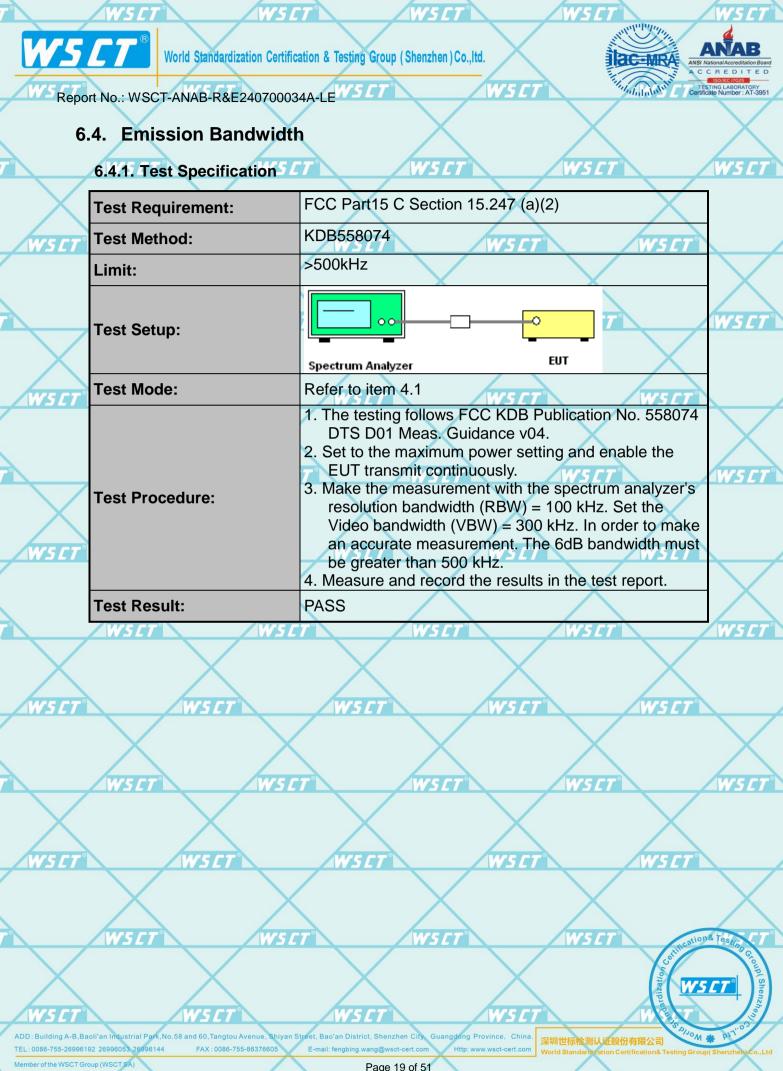
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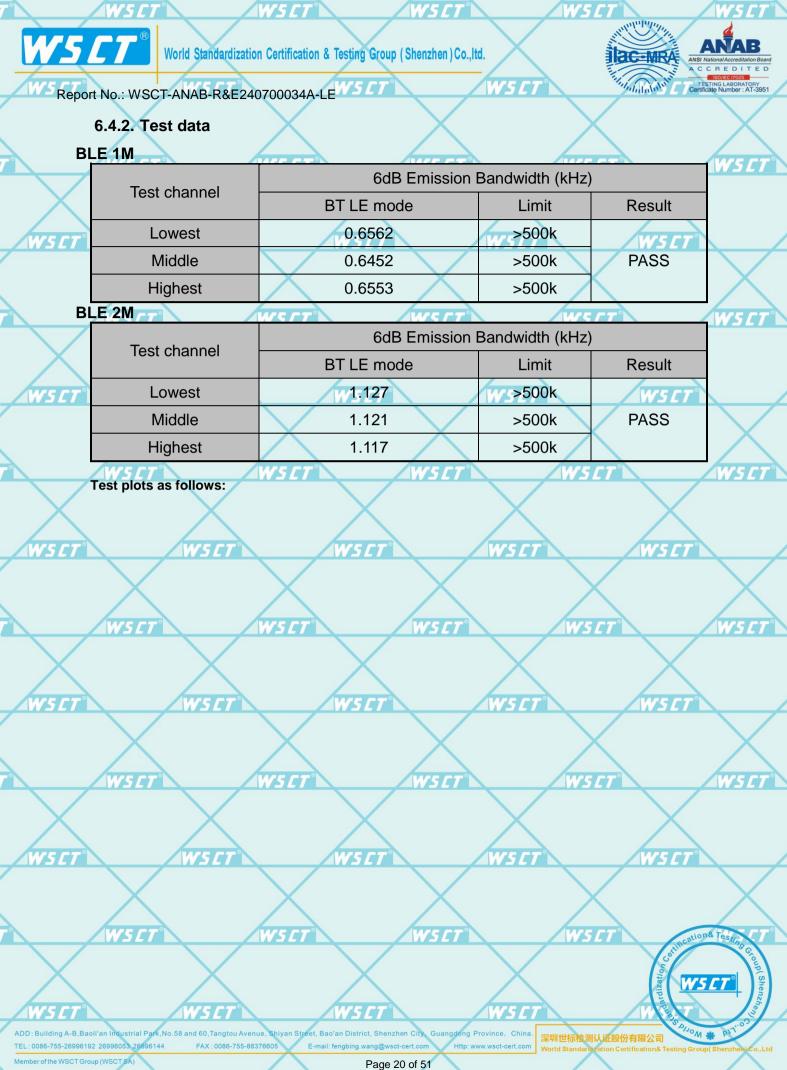








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Report No.: WSCT-ANAB-R&E240700034A-LE Power Spectral Density

	6.4.3. Test Specification		$\wedge$
$ \rightarrow $	Test Requirement:	FCC Part15 C Section 15.247 (e)	WSCT
X	Test Method:	KDB558074	
WSET	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	
	Test Setup:		WSET
$\sim$		Spectrum Analyzer EUT	
$\wedge$	Test Mode:	Refer to item 4.1	
	Test Procedure:	<ol> <li>The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04</li> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report. </li> </ol>	WSCT WSCT
	Test Result:	PASS	$\overline{\mathbf{\nabla}}$
		X X	X

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### 6.4.4. Test Instruments

/	RF Test Room					
	Equipment	Manufacturer	Model	Serial Number	Calibration Due	
7 ີ່ 1	Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018	
	RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018	
	Antenna Connector	WSTCT	RFC-015 C	7 N/A M	Sep. 27, 2018	

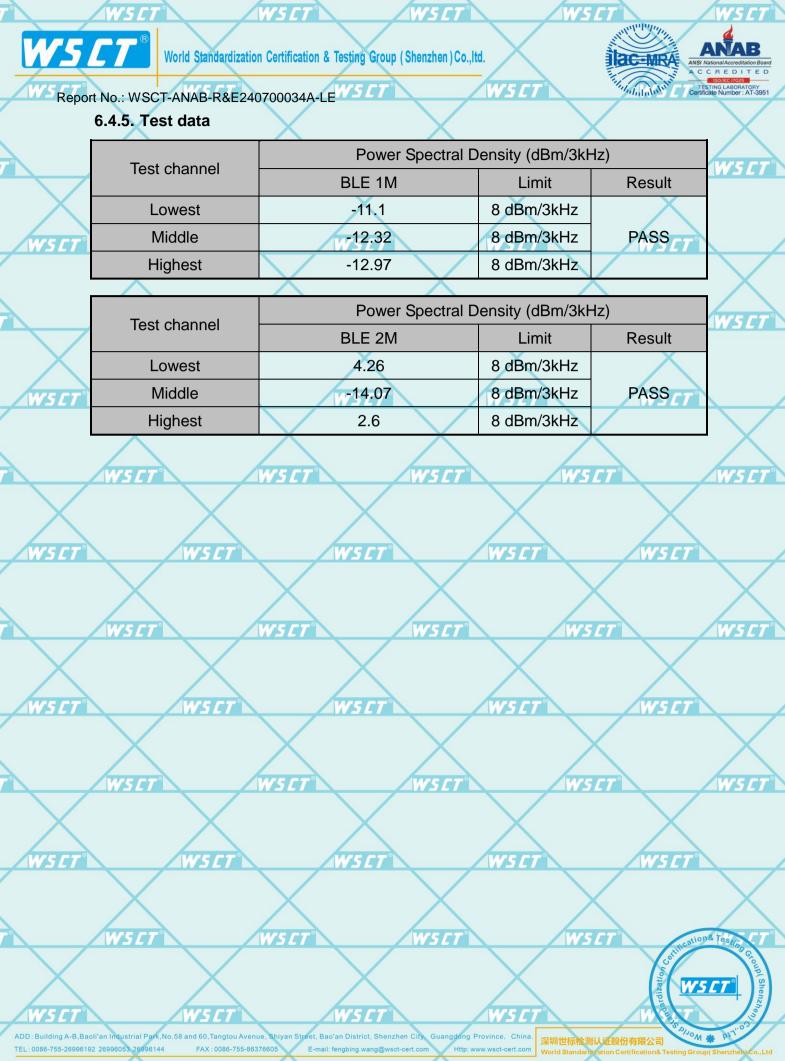
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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## 6.5. Conducted Band Edge and Spurious Emission Measurement

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	6.5.1. Test Specification	T WSET WSET	WSE
$\overline{}$	Test Requirement:	FCC Part15 C Section 15.247 (d)	
	Test Method:	KDB558074	
WSET	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).	WIST
<u>WSCT</u>	Test Setup:	Spectrum Analyzer	WSE
	Test Mode:	Refer to item 4.1	
WSET WSET	Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>	WISIE
	Test Result:	PASS	
	WSCT WSC	T WSCT WSCT	& Testing G
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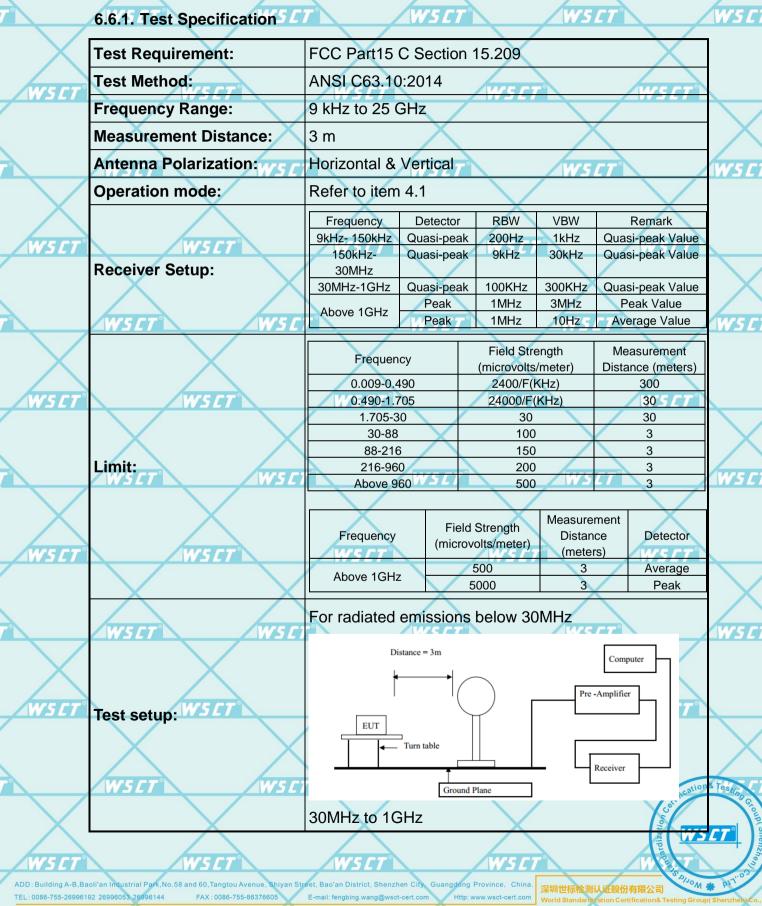


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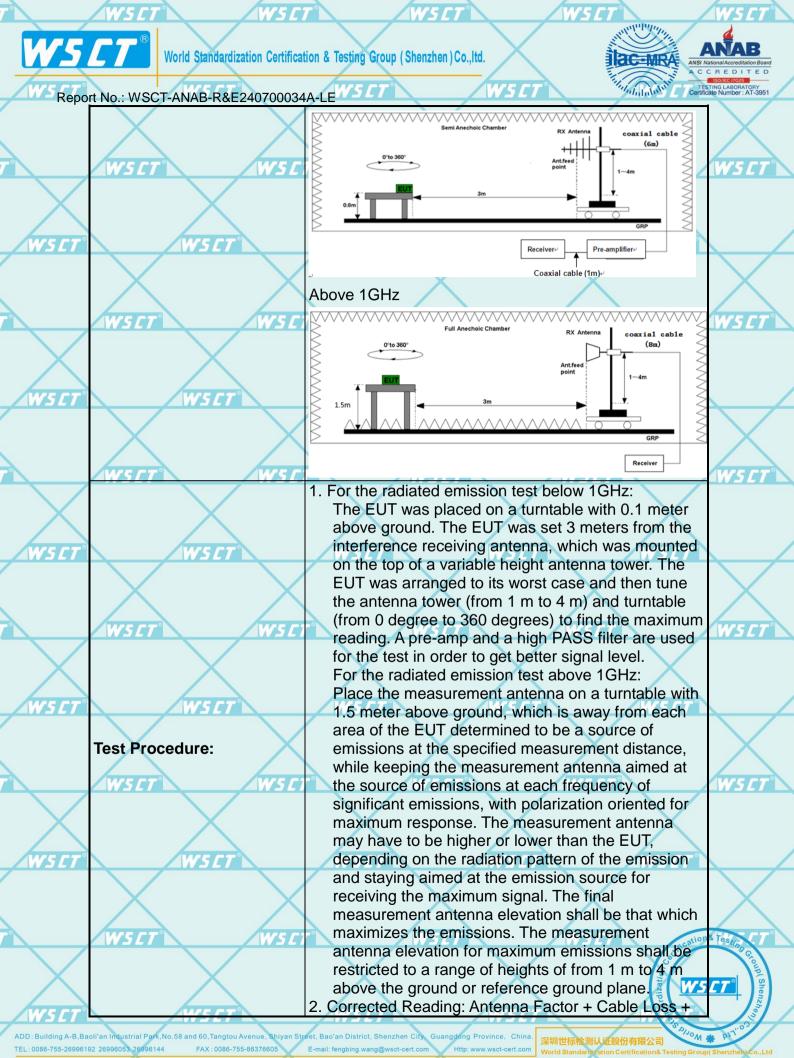
## 6.6. Radiated Spurious Emission Measurement

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WS Repo	rt No.: WSC	T-ANAB-R&E240700034	A-LEWSCT WSCT	The Addition Contricat	ISO/IEC 17025 ING LABORATORY te Number : AT-3951
-	WSET	. Ζ	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the of the EUT measured by the peak de lower than the applicable limit, the pe	tector is 3 dB	WSCT
WSET		WSET	<ul><li>level will be reported. Otherwise, the measurement will be repeated using detector and reported.</li><li>4. Use the following spectrum analyzer spec</li></ul>	emission the quasi-peak	
	WSET	WSE	<ul> <li>(1) Span shall wide enough to fully ca emission being measured;</li> <li>(2) Set RBW=100 kHz for f &lt; 1 GHz;</li> </ul>	pture the VBW_≥RBW;	WSET
WSET		WSET	Sweep = auto; Detector function = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz f for peak measurement. For average measurement: VBW = 1	for f 1 GHz	
	WSET	W5C	duty cycle is no less than 98 percent. when duty cycle is less than 98 perce the minimum transmission duration o transmitter is on and is transmitting a power control level for the tested mod	ent where T is over which the t its maximum	WSET
$\wedge$	Test mod	de:	Refer to section 4.1 for details	$\frown$	
WS CT°	Test rest	ults:// <i>5_C7</i>	PASS <i>5CT</i> WSCT	WSCT <sup>®</sup>	

Note 1: The symbol of "--" in the table which means not application.

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- Note 2: 5 / For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average // 5 / 2 / 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.
- W5C7 Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode

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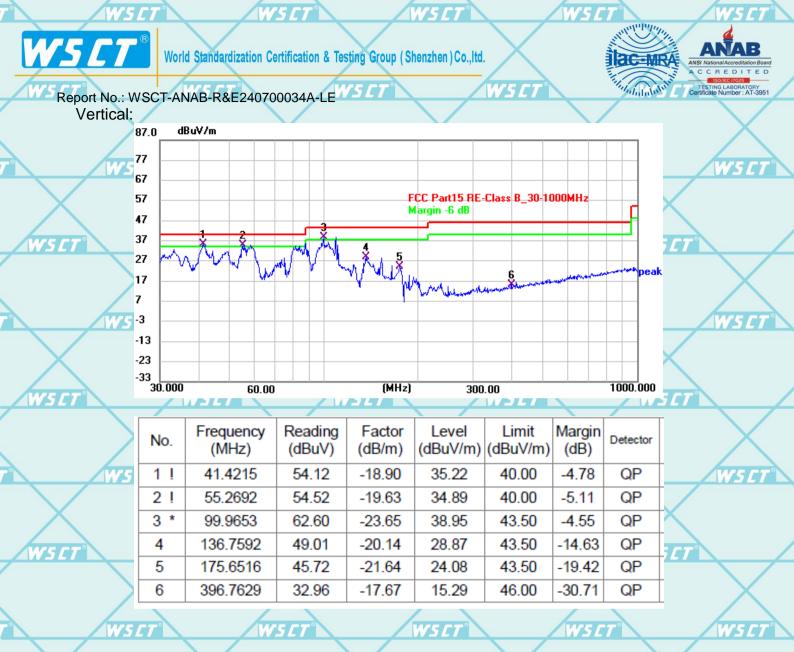
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Note1:

Freq. = Emission frequency in MHz

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Reading level  $(dB\mu V)$  = Receiver reading 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 Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ 

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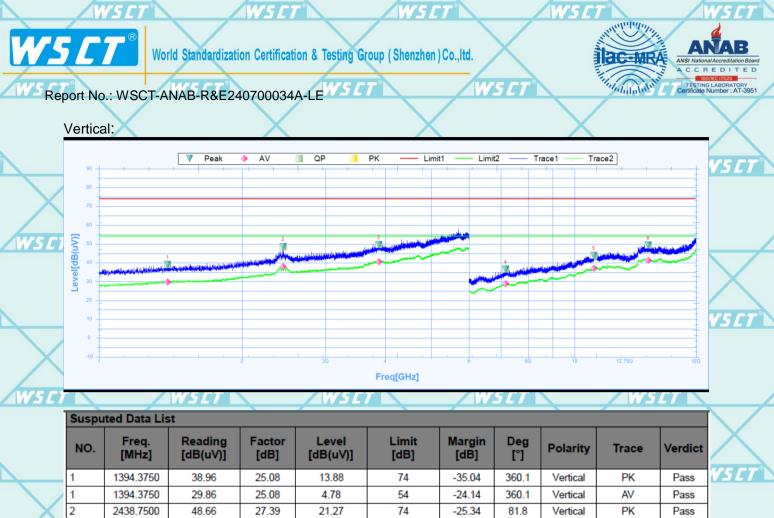
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2 2438.7500 37.84 27.39 10.45 54 -16.16 81.8 Vertical AV 3 49.74 74 -24.26 PK 3875.0000 29.4 20.34 233.7 Vertical WSE 3 3875.0000 40.66 29.4 11.26 54 -13.34 233.7 Vertical AV 74 4 7162.5000 36.7 7.01 29.69 -37.3 285.4 Vertical PK 4 7162.5000 28.89 7.01 21.88 54 -25.11 285.4 AV Vertical 5 74 10975.5000 43.95 15.48 28.47 -30.05 182.6 Vertical PK 5 182.6 10975.5000 37.03 15.48 54 -16.97 AV 21.55 Vertical 6 14295.0000 49.33 18.83 30.5 74 -24.67 106.1 PK Vertical 6 14295.0000 41.28 18.83 22.45 54 -12.72 106.1 Vertical AV



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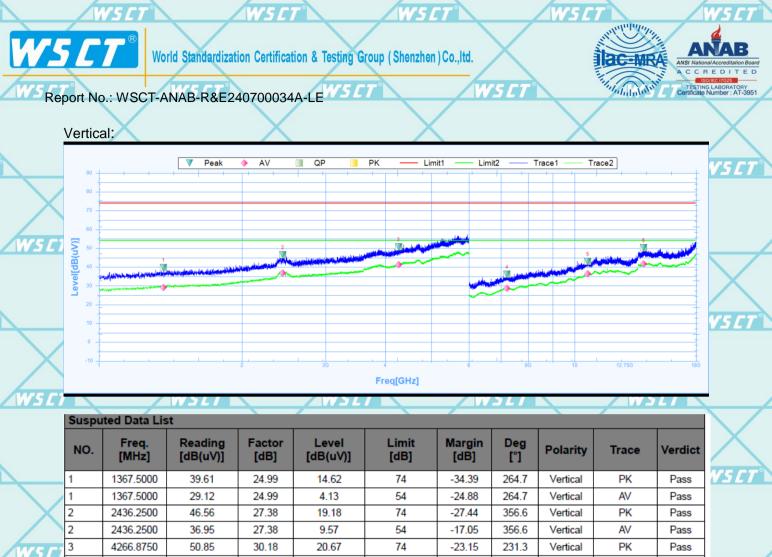
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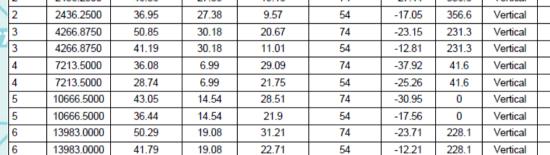
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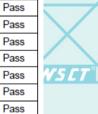
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Susp	uted Data Lis	st									
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	/
1	1941.2500	50.96	25.64	25.32	74	-23.04	338.7	Vertical	PK	Pass	V
1	1941.2500	31.74	25.64	6.1	54	-22.26	338.7	Vertical	AV	Pass	
2	2481.8750	46.47	27.54	18.93	74	-27.53	1.4	Vertical	PK	Pass	ł
2	2481.8750	37.81	27.54	10.27	54	-16.19	1.4	Vertical	AV	Pass	l
<b>[</b> ]	3598.7500	51.71	28.74	22.97	74	-22.29	14.4	Vertical	PK	Pass	
3	3598.7500	37.54	28.74	8.8	54	-16.46	14.4	Vertical	AV	Pass	
4	8173.5000	37.89	8.68	29.21	74	-36.11	43.9	Vertical	PK	Pass	
4	8173.5000	30.13	8.68	21.45	54	-23.87	43.9	Vertical	AV	Pass	
5	10716.0000	44.13	14.63	29.5	74	-29.87	-0.1	Vertical	PK	Pass	
5	10716.0000	36.52	14.63	21.89	54	-17.48	-0.1	Vertical	AV	Pass	V
6	14044.5000	49.98	19.08	30.9	74	-24.02	358.6	Vertical	PK	Pass	
6	14044.5000	42.25	19.08	23.17	54	-11.75	358.6	Vertical	AV	Pass	
Noto									/		

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All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Emission Level= Reading Level+Probe Factor +Cable Loss.

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3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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## **Test Setup Photographs**

Please refer to Annex "Set Up Photos-15C" for test setup photos

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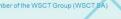




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