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TEST REPORT

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FCC ID: 2AXYP-OSW-852H Product: Smart Watch W5C7 Model No.: OSW-852H Trade Mark: oraimo Report No.: WSCT-ANAB-R&E241000049A-LE Issued Date: 26 October 2024 C7

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 WSC7SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

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 City, Guangdong Province, China TEL: +86-755-26996192

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W 5 Repo	. Test Cert	B-R&E241000049A-LE
	Product:	Smart Watch
	Model No.:	OSW-852H
X	Trade Mark: 📈	oraimo
WSET	Applicant: W	ORAIMO TECHNOLOGY LIMITED W5 CT W5 CT
	X	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
	Manufacturer:	
\checkmark		FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
\wedge	Date of Test:	12 October 2024 to 26 October 2024
WSET	Applicable 11/2	FCC CFR Title 47 Part 15 Subpart C Section 15.247 W5C7
	Standards:	KDB 558074 D01 DTS Meas Guidance v04
7	The above equipm	nent has been tested by World Standardization Certification & Testing

Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. WS CI

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V		(Wang Xia			(Chen Xu)	
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	Approved By		<u>mb;</u>		October 2	
<u> </u>	WSET	(Li Huaib		VSET	WSCT	WSLT
		WSET	WSET	WSET		WSET
W5C	X	X		X	X	X
2	WSET	W5E	T V	VSET	WSET	WSCT°
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			/			PILLERS OF SOL
	-B,Baoli'an Industrial Park,No 5996192 26996053 26996144	58 and 60, Tangtou Avenue, Shiyan S FAX : 0086-755-86376605	Street, Bao'an District, Shenzhen Cil E-mail: fengbing.wang@wsct-cert.c		深圳世标检测认证股份有限 World Standardization Certifics	良公司 # PIT
	CT Group (WSCT SA)	WSL	7 Page 3 of 4	19 <i>5 CT</i>	WSET	WSET



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WS CT	ort No.: WSCT-ANAB-R&E2410	WSCT WS	CT MARANTET	TESTING LABORATORY ertificate Number : AT-3951
	3. EUT Description			
	Product Name:	Smart Watch WSCT	WSET	VYSET
\sim	Model :	OSW-852H	$\langle \times$	
	Trade Mark:	oraimo		
/WSET	Operation Frequency:	2402MHz~2480MHz	u wsti	\frown
	Channel Separation:	2MHz	X	
	Number of Channel:	407 WSCT	WS CT°	WSET
\times	Modulation Technology:	GFSK	$\langle X \rangle$	
WSET	Antenna Type:	PIFA antenna	TT WSTT	
	Antenna Gain:	-2.59dBi.		
	Operating Voltage	Rechargeable Li-ion Battery: ZWD Nominal Voltage:3.85V Rated Capacity:470mAh	0582525H WSCT	VISET
X	\times	Rated Enregy:1.81Wh Limited Charge Voltage:4.4V	$\langle X \rangle$	
wsci	Remark:	N/A. WSET WS	CT WSCT	

Operation Frequency each of channel

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	-	-	-						
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	WSC
7	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz	
	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	\sim
Remark: Channel 0, 19 & 39 have been tested.								\wedge	

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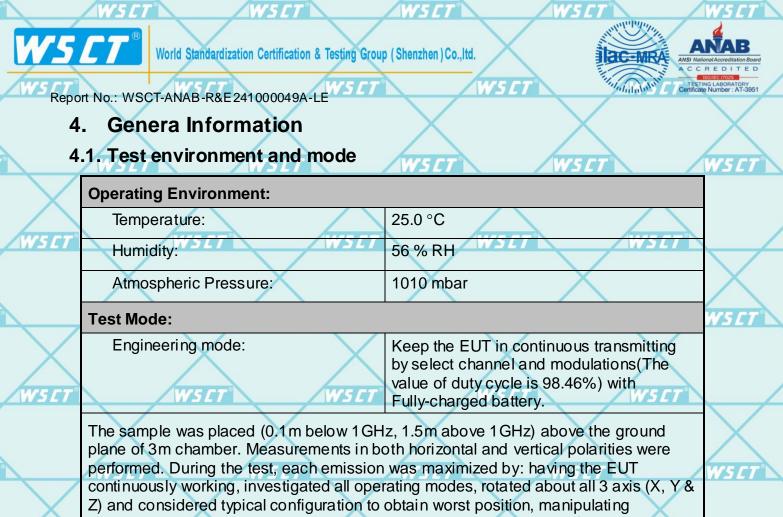
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interconnecting cables, rotating the turntable, varying antenna height from 1 m to 4 m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

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.

C7°	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	XCU32	\times	/	Χ Ι

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. 2. 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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5. Facilities and Accreditations

5.1.Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.**

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Bao'an District, Shenzhen City, Guangdong Province, China

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 ANAB - Certificate Number: AT-3951

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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	coniide	nce of approximately 95 %.		
	No.	ltem	MU	
WSET [®]	1	Power Spectral Density WSL	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	\times
	3 <u>w5</u> [Medium Utilisation Factor WSCT WS	±1.3%	WSCT
	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%	\checkmark
	7	Receiver Spurious Emissions	±2.5%	\mathbf{X}
	8W5[Conducted Emission Test WSCT WS	±3.2dB	WSET
\sim	9	RF power, conducted	±0.16dB	
WSET	10	Spurious emissions, conducted	±0.21dB	
	11	All emissions, radiated(<1GHz)	±4.7dB	\checkmark
	12	All emissions, radiated(>1GHz)	±4.7dB	\times
	13 75 [Temperature WSCT WSCT WS	±0.5°C	W5CT
\sim	14	Humidity	±2.0%	

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5.4.MEASUREMENT INSTRUMENTS

			\land		\sim		
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	SET
X	Test software	<	EZ-EMC	CON-03A	-	Χ-	
С	Test software	- /	MTS8310	WSFT	- /	/5/7°	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	\checkmark
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016/5/	04/10040	11/05/2023	11/04/2024	5 <i>CT</i>
\langle	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Ľ	Coaxial cable	CT Megalon	LMR400	NA CT	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	\checkmark
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	\wedge
	Pre Amplifier	H.P.CT	HP8447E 5 /	2945A02715	11/05/2023	11/04/2024	5 C T
	Pre-Amplifier	CDSI	PAP-1G18-38	\sim	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
Ľ	9*6*6 Anechoic	CT V	15ET	WSCT	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-	11/05/2023	11/04/2024	Х
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	SET
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
X	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
C	Turn Table	ccs	VS CTN/A	NA	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	$\overline{\ }$
	Loop Antenna	EMCO7	6502W51	00042960	11/05/2023	11/04/2024	/ <i>5 [[</i> 1
\checkmark	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD	WSLI	11/05/2023	11/04/2024	-/
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X
						/	

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6. Test Results and Measurement Data

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6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain *CT* greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

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The Bluetooth antenna is a PIFA antenna. it meets the standards, and the best case gain of the antenna is -2.59dBi..

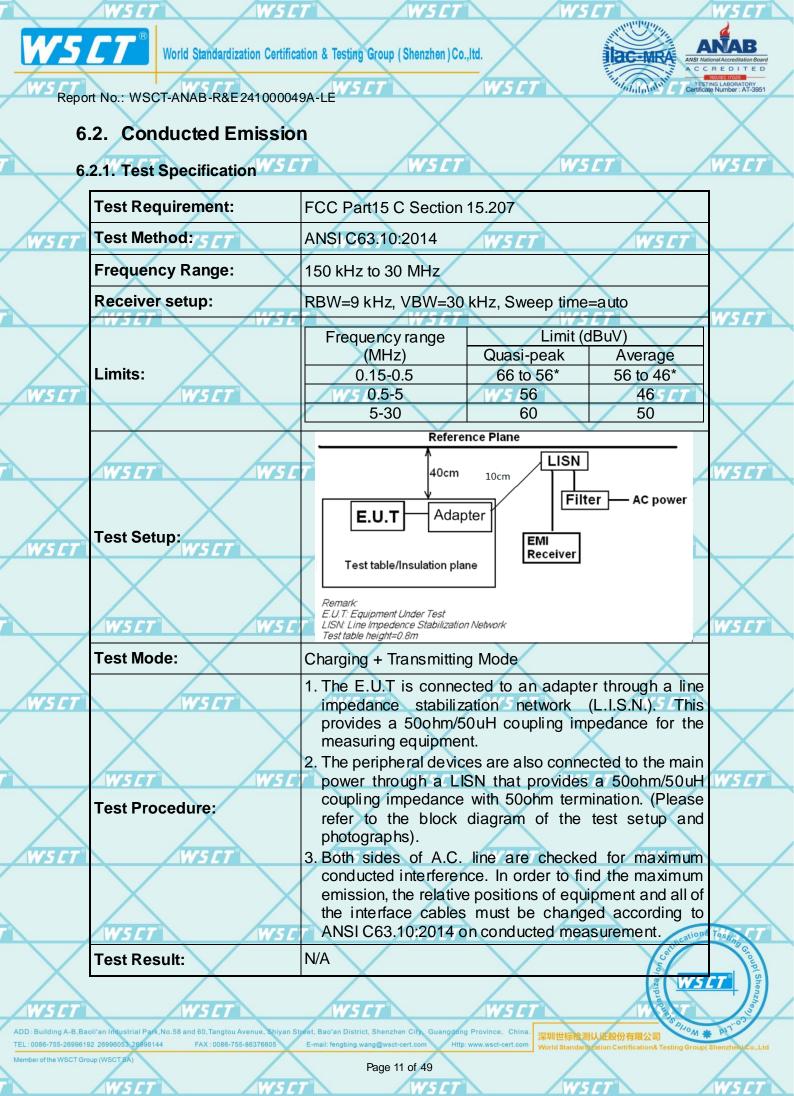
Please refer to the attachment "OSW-852H Internal Photo" for the antenna location

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6.2.2. EUT OPERATING CONDITIONS

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The EUT is working in the Normal link mode. All modes have been tested and normal link mode is 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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Note: EUT is powered by batteries and cannot transmit normally while charging. This project does not require testing

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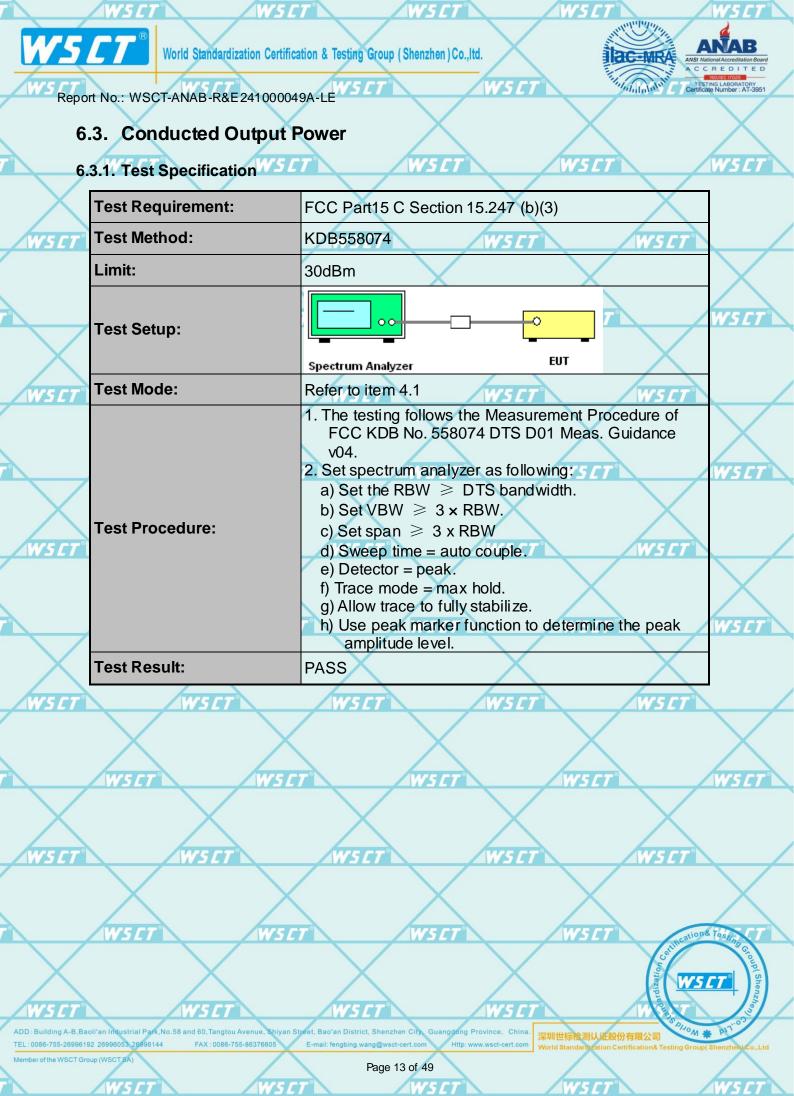
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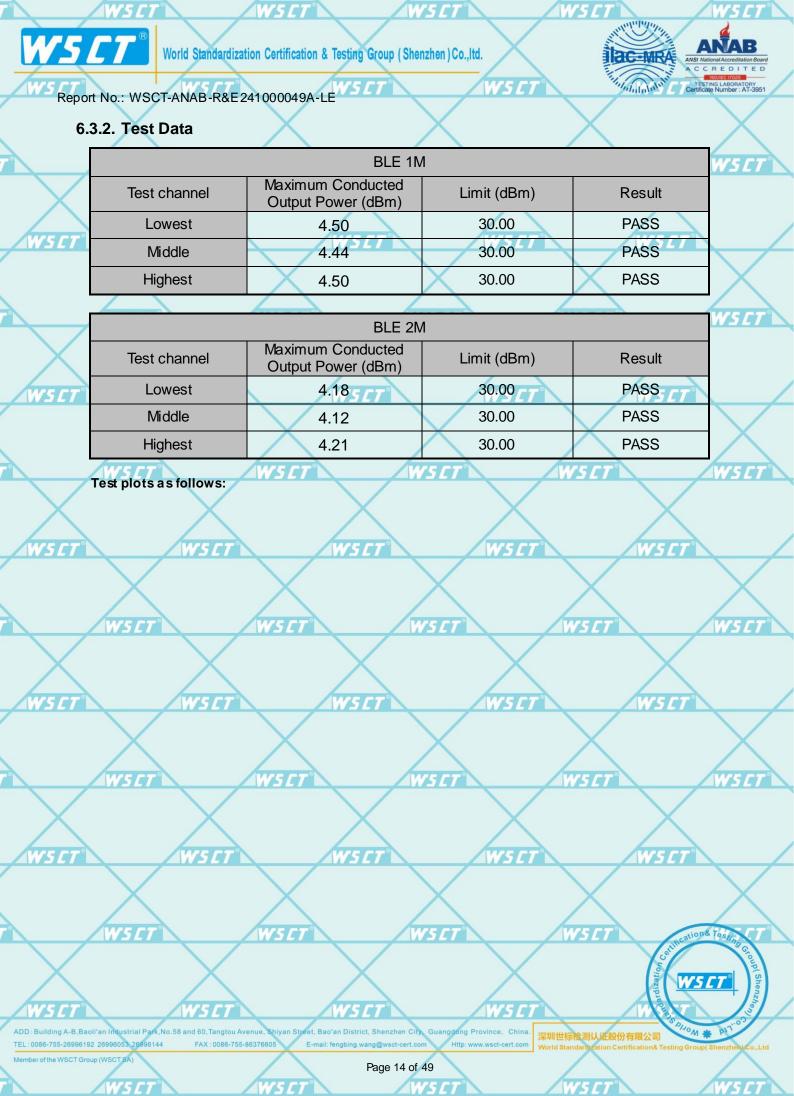
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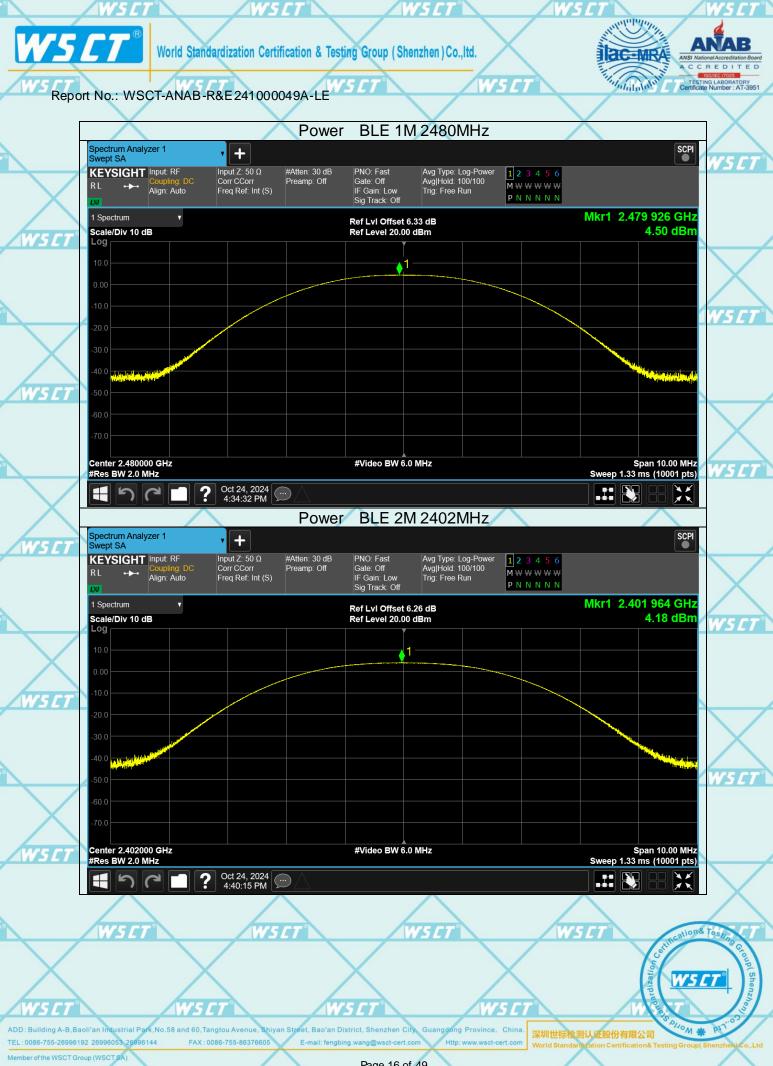
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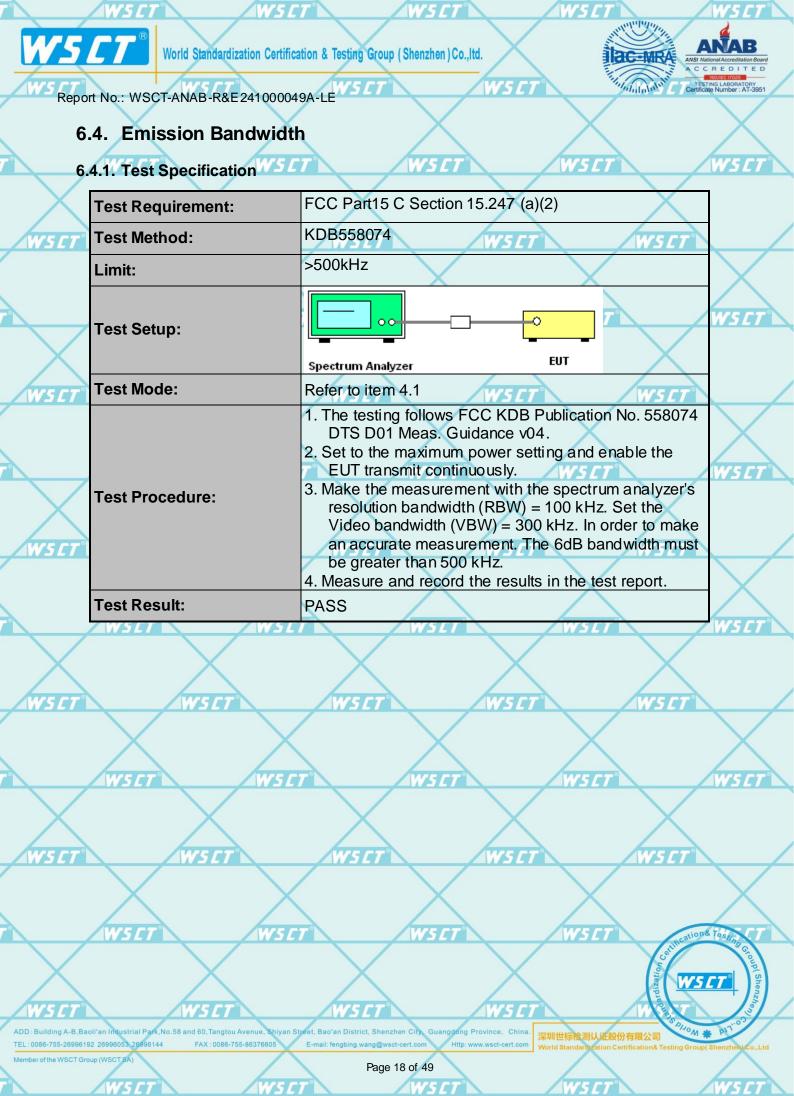
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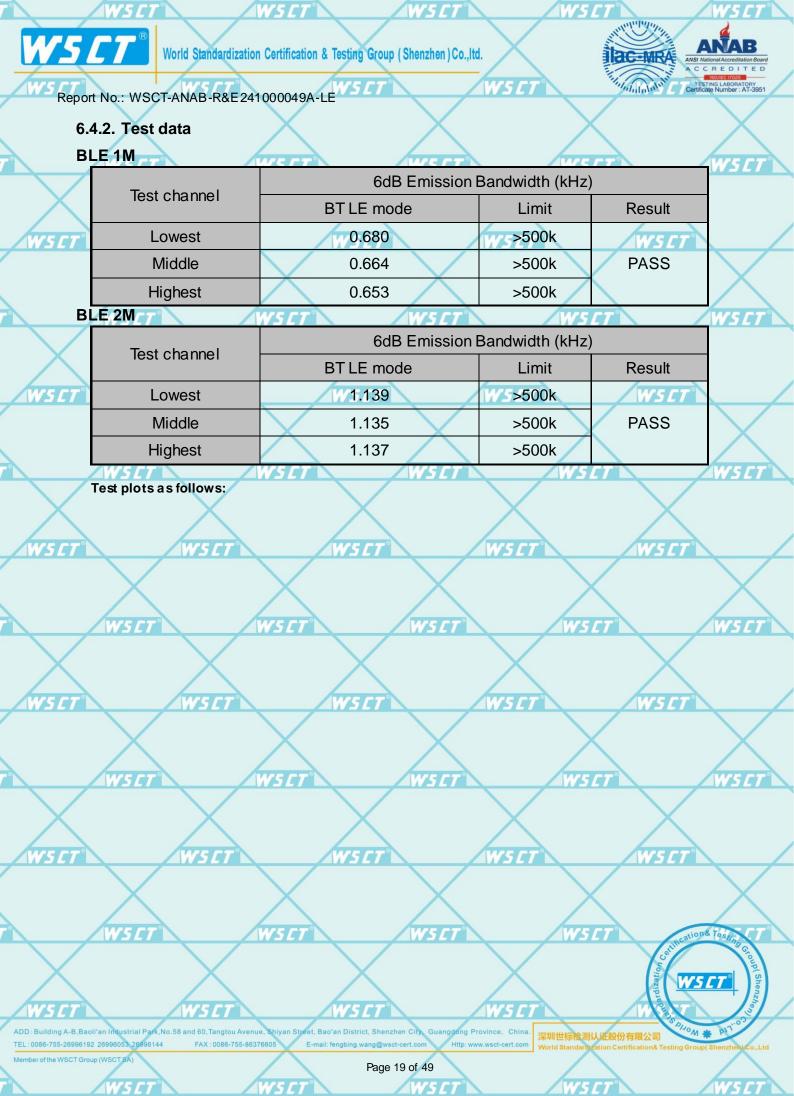


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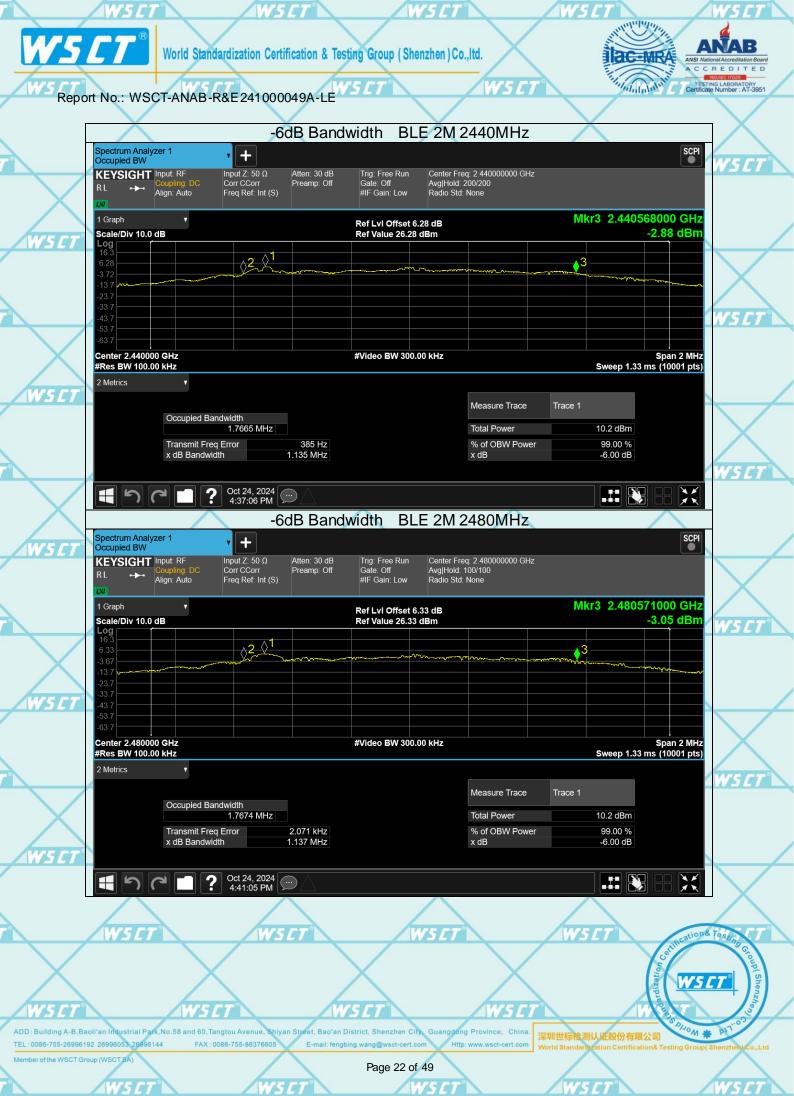
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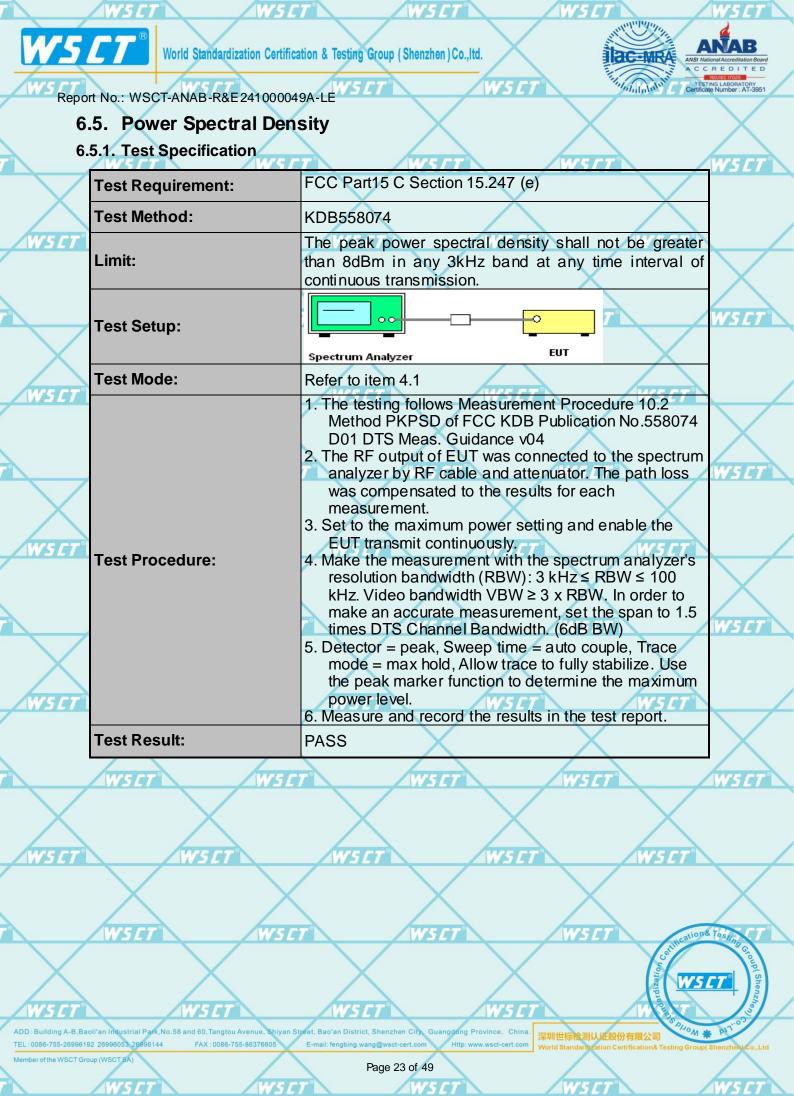


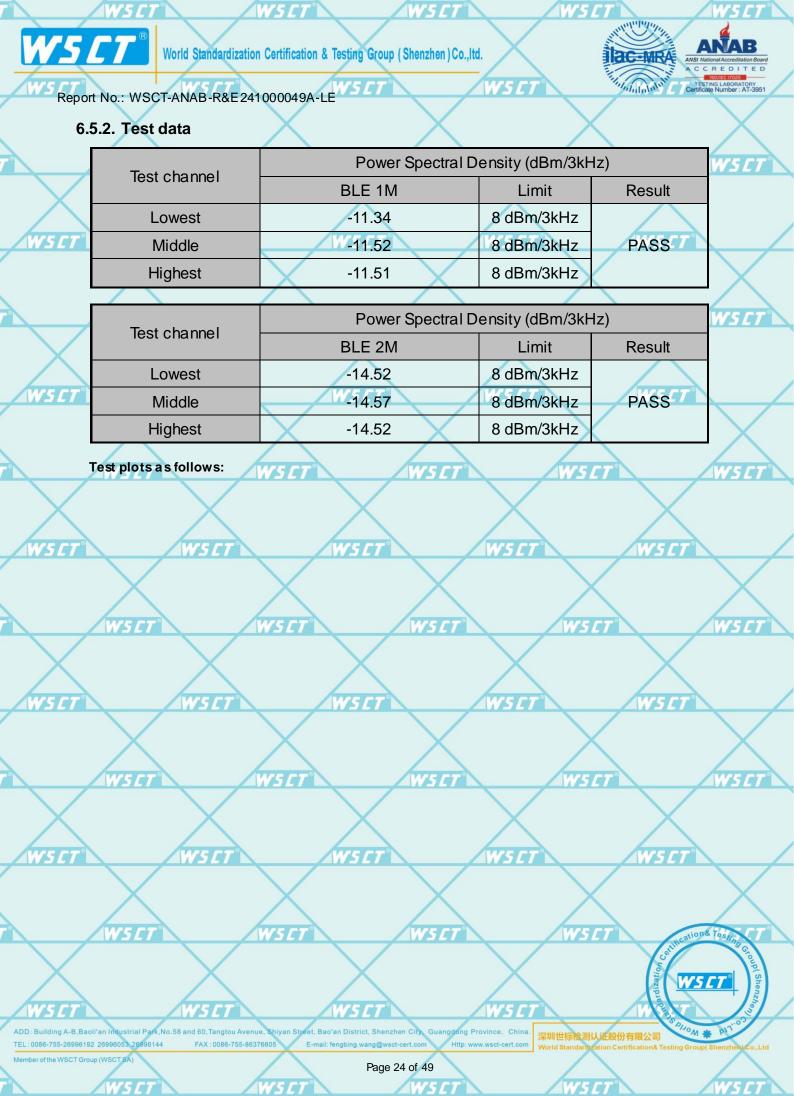


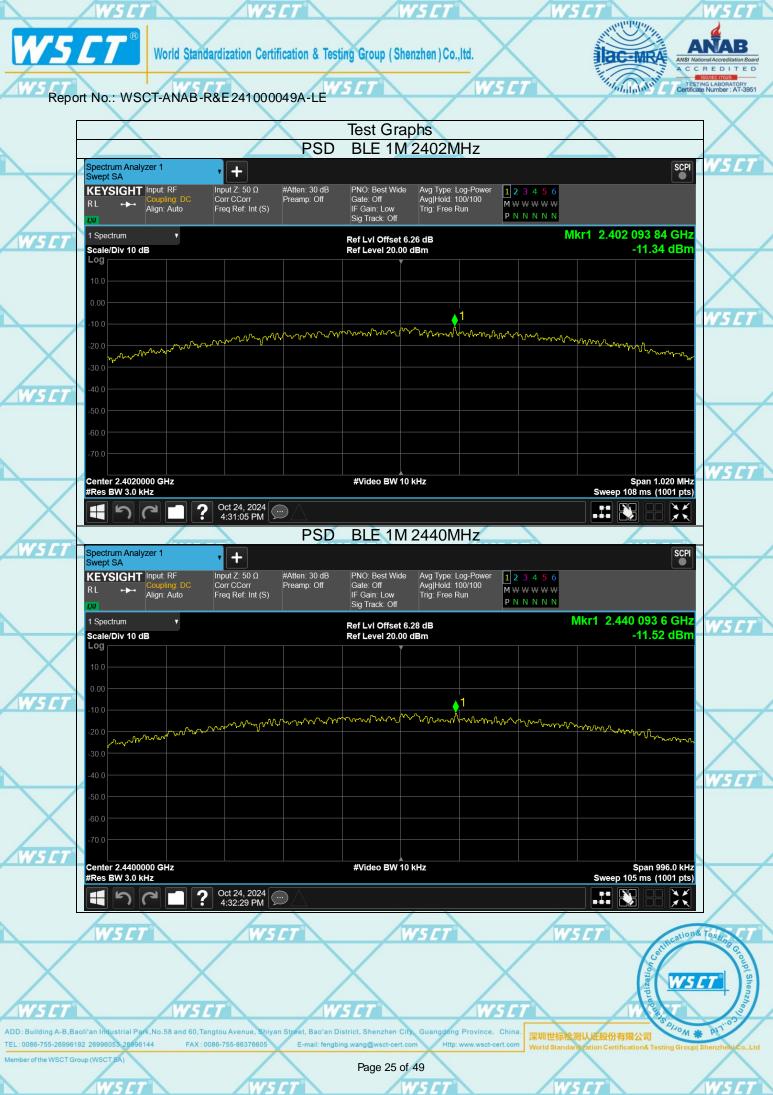








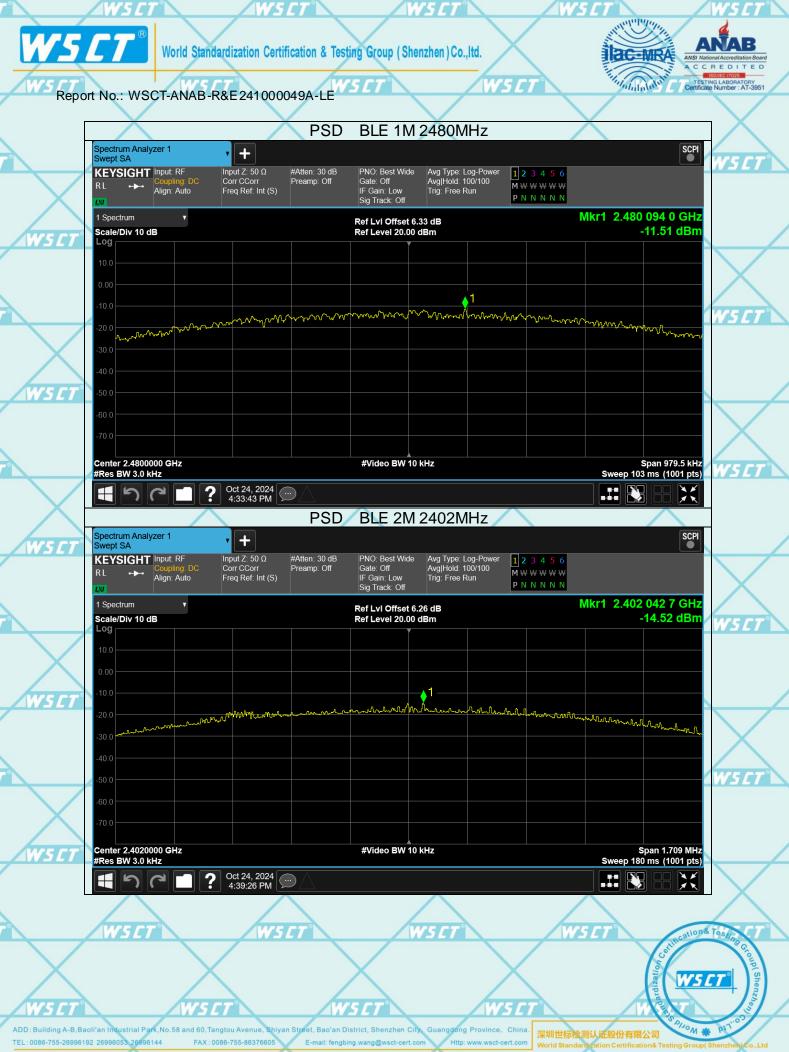




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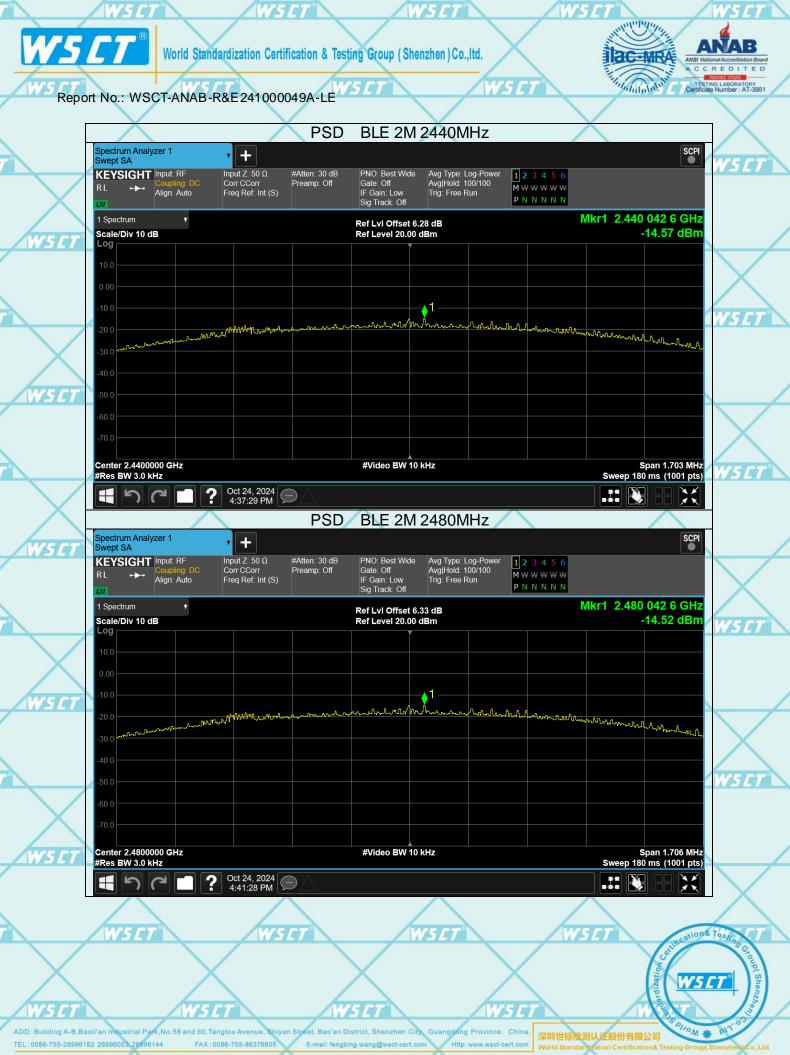
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6.6. Conducted Band Edge and Spurious Emission Measurement

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6.6.1. Test Specification

0.	6.1. Test Specification _{WSC}	T WSET WSET	W5CT°
\bigvee	Test Requirement:	FCC Part15 C Section 15.247 (d)	
	Test Method:	KDB558074	
NS ET	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).	WSET
	Test Setup:	Spectrum Analyzer	WSET
\bigtriangledown	Test Mode:	Refer to item 4.1	
NSET NSET	Test Procedure:	 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 against the limit line in the operating frequency band. 	WSET WSET
	Test Result:	PASS	Х
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WSET	WSET	WSCT WSCT WSCT	mzhom)
0086-755-2699619	2 26996053 26996144 FAX : 0086-755-86376605	treet, Bao'an District, Shenzhen City, Guangdong Province, China. E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com World Standard zation Certification& Testing Group(
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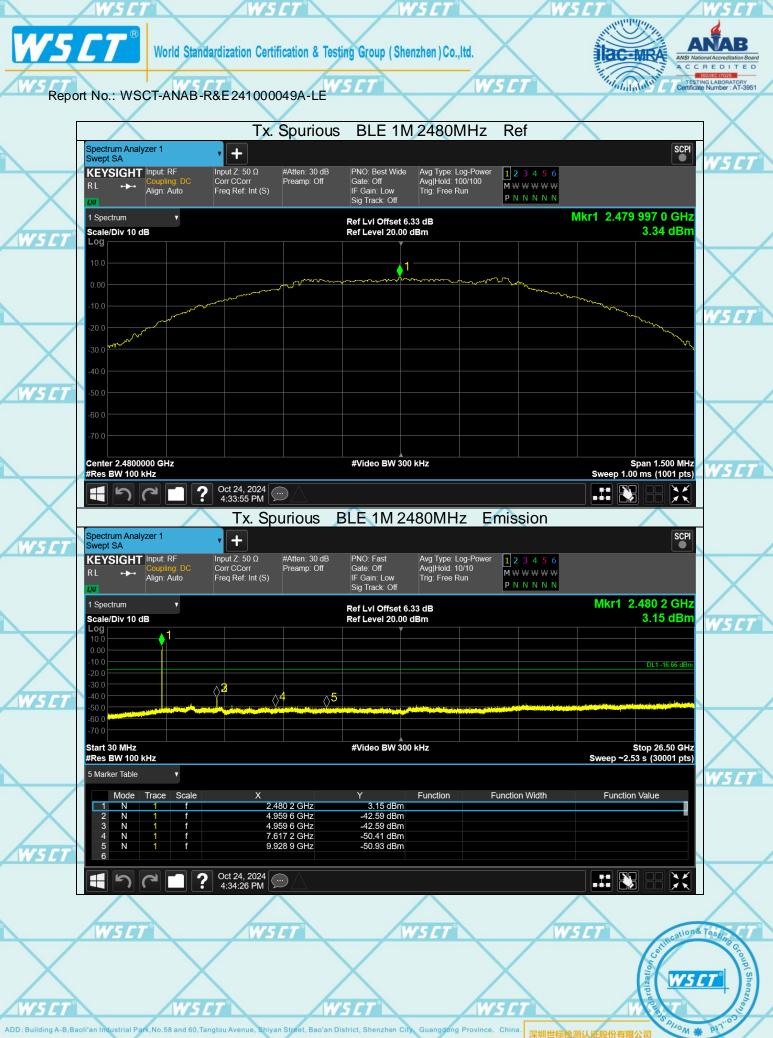
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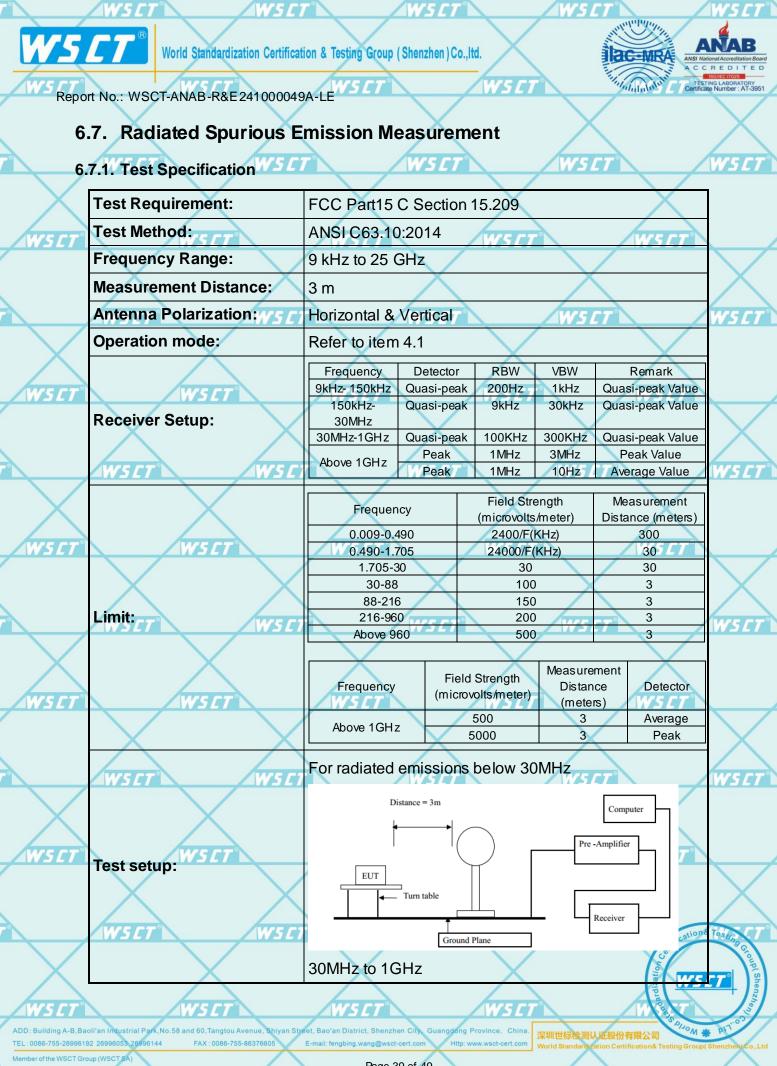
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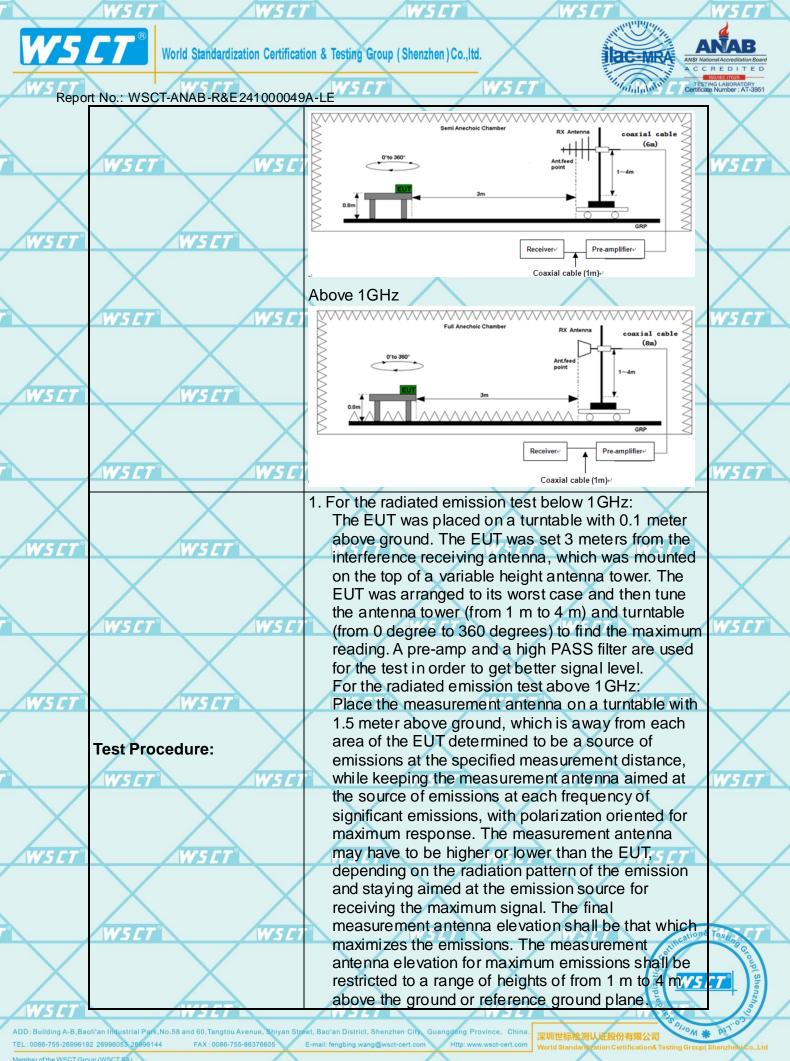
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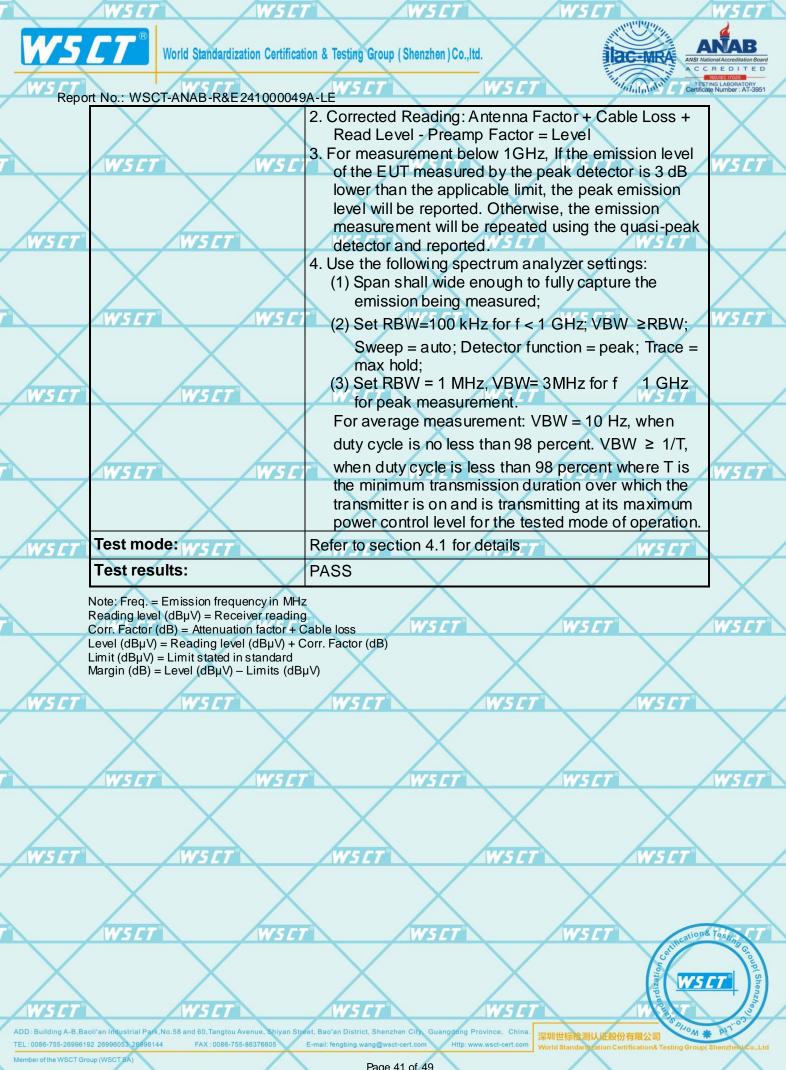


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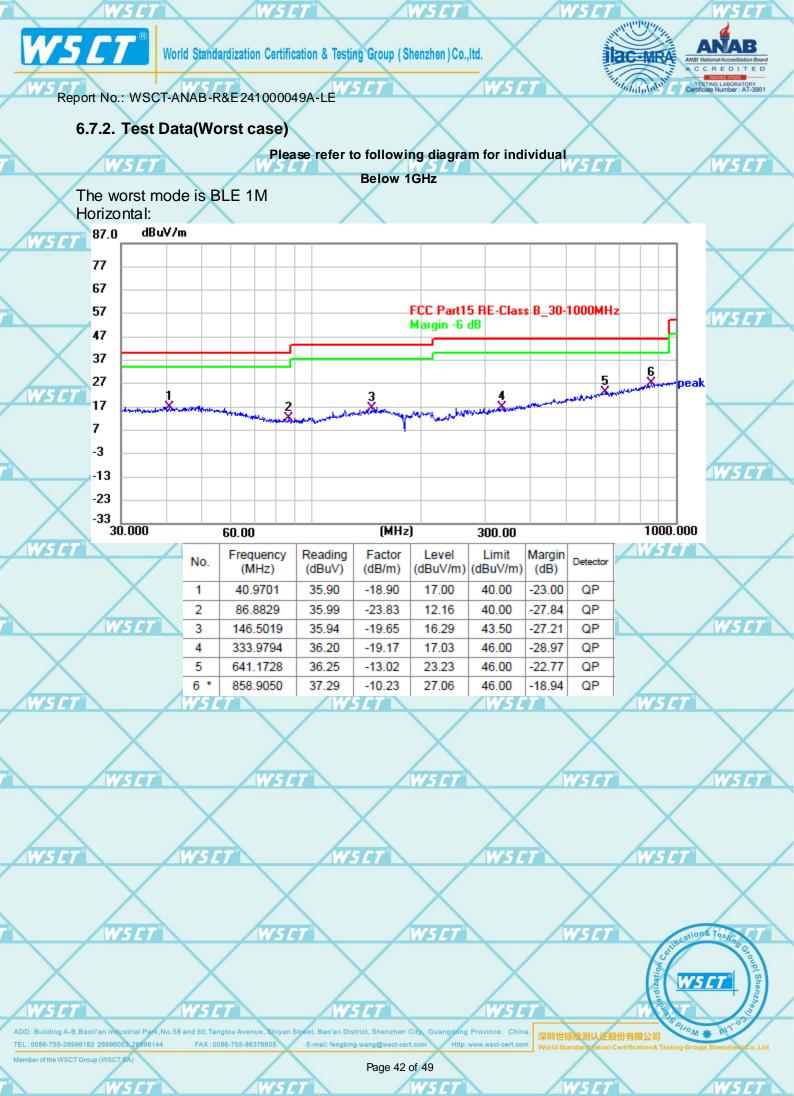
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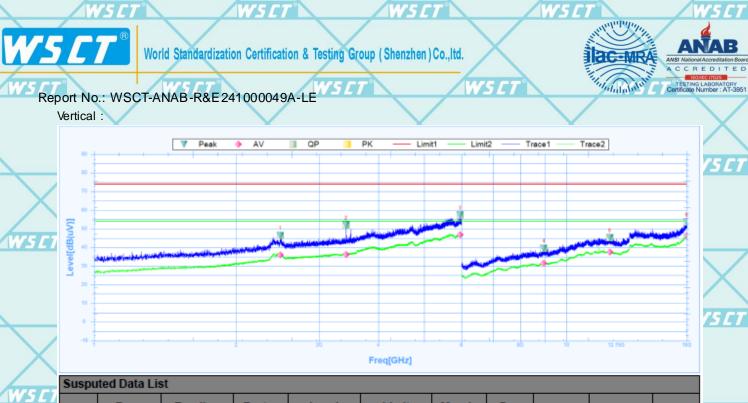
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5 C 1	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2478.7500	46.45	7.84	38.61	74	-27.55	4.2	Vertical	PK	Pass	
	1	2478.7500	36	7.84	28.16	54	-18	4.2	Vertical	AV	Pass	
	2	3417.5000	51.99	9.46	42.53	74	-22.01	0	Vertical	PK	Pass	
1	2	3417.5000	36.13	9.46	26.67	54	-17.87	0	Vertical	AV	Pass]
X	3	5961.2500	57.43	21.92	35.51	74	-16.57	275.8	Vertical	PK	Pass]
	3	5961.2500	46.82	21.92	24.9	54	-7.18	275.8	Vertical	AV	Pass]
5 <i>C</i> 7	4	8959.5000	39.59	37.38	2.21	74	-34.41	334	Vertical	PK	Pass]
	4	8959.5000	31.6	37.38	-5.78	54	-22.4	334	Vertical	AV	Pass	
	5	12355.5000	45.16	38.71	6.45	74	-28.84	1.5	Vertical	PK	Pass	
	5	12355.5000	37.53	38.71	-1.18	54	-16.47	1.5	Vertical	AV	Pass	
	6	17995.5000	53.6	46.47	7.13	74	-20.4	142.7	Vertical	PK	Pass	
	6	17995.5000	46.39	46.47	-0.08	54	-7.61	142.7	Vertical	AV	Pass	1
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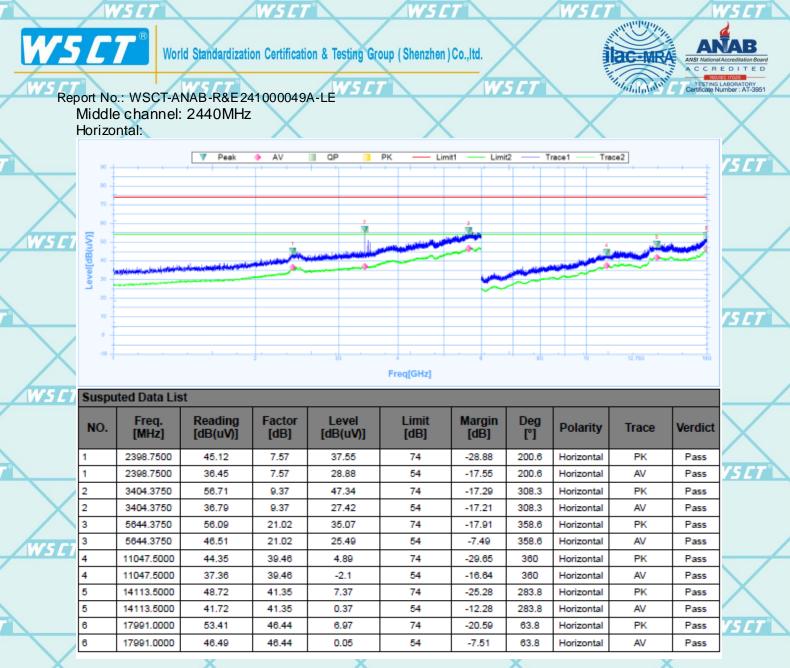
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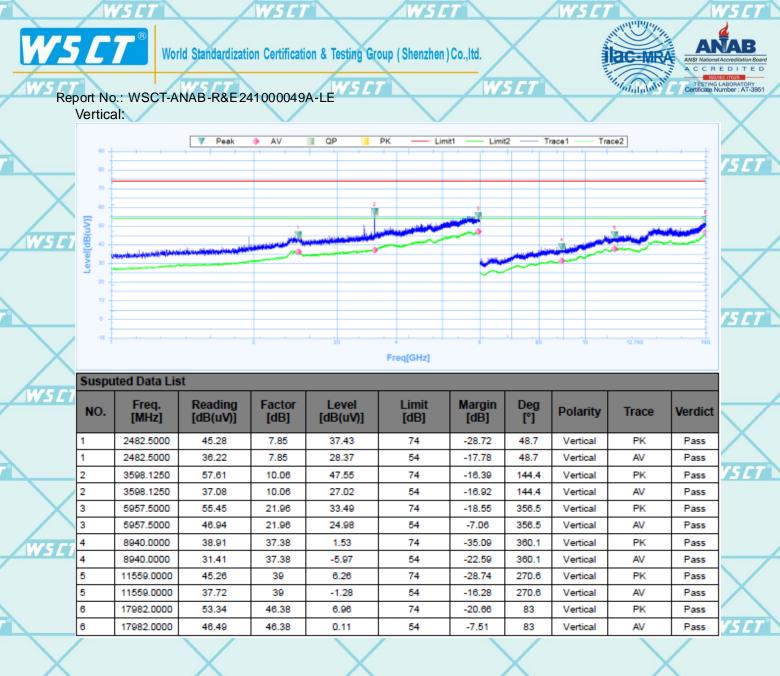
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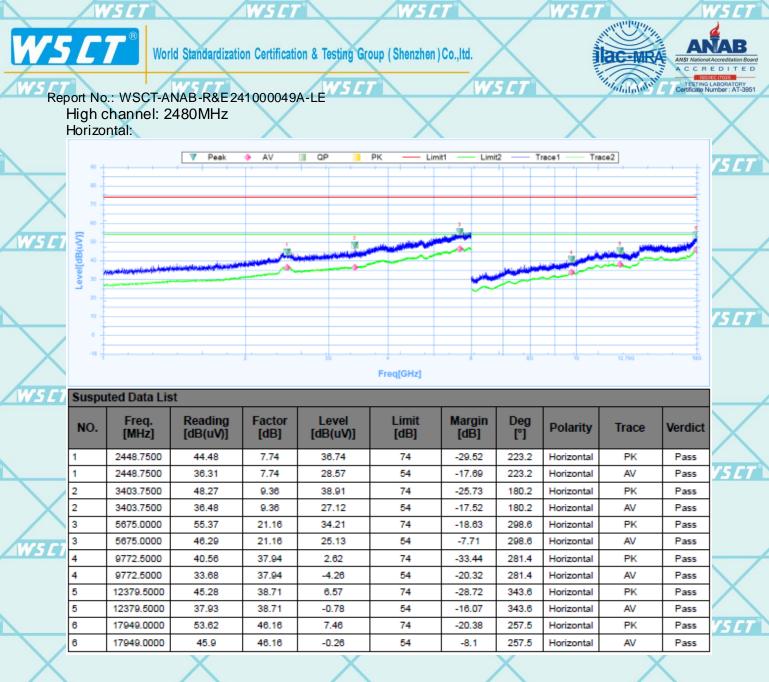
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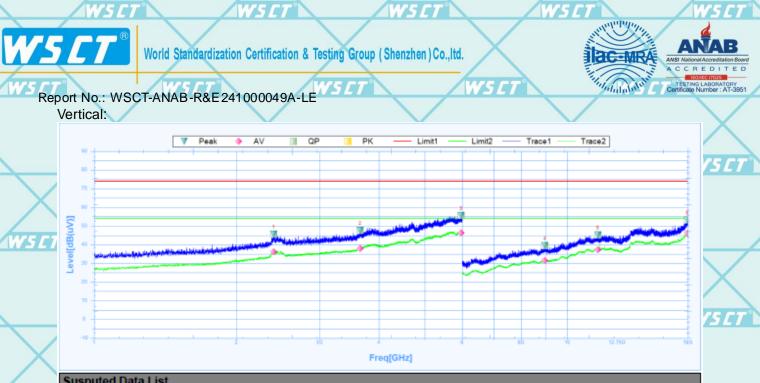
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	Suspu	Susputed Data List										
2	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit (dB)	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	~
	1	2396.2500	45.71	7.56	38.15	74	-28.29	267.4	Vertical	PK	Pass	/
	1	2396.2500	36.23	7.56	28.67	54	-17.77	267.4	Vertical	AV	Pass	
	2	3650.6250	47.67	10.25	37.42	74	-26.33	-0.1	Vertical	PK	Pass	15
1	2	3650.6250	37.9	10.25	27.65	54	-16.1	-0.1	Vertical	AV	Pass	
	3	5968.1250	55.6	21.85	33.75	74	-18.4	164.6	Vertical	PK	Pass	
	3	5968.1250	46.28	21.85	24.43	54	-7.72	164.6	Vertical	AV	Pass	
7	4	8968.5000	39.58	37.39	2.19	74	-34.42	158.2	Vertical	PK	Pass	
-	4	8968.5000	31.62	37.39	-5.77	54	-22.38	158.2	Vertical	AV	Pass	
	5	11610.0000	45.25	38.95	6.3	74	-28.75	10.7	Vertical	PK	Pass	
	5	11610.0000	37.36	38.95	-1.59	54	-16.64	10.7	Vertical	AV	Pass	
	6	17959.5000	53.16	46.23	6.93	74	-20.84	227.4	Vertical	PK	Pass	
	6	17959.5000	46.12	46.23	-0.11	54	-7.88	227.4	Vertical	AV	Pass	V 5

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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. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are

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attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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