WSCT



WSET

TEST REPORT

FCC ID: 2ADYY-CM5

Product: Mobile Phone 5

WSET

Model No.: CM5

**Trade Mark: TECNO** 

Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

Issued Date: 04 December 2024

WSCT

Issued for:

**TECNO MOBILE LIMITED** 

WSCI

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET **FOTAN NT HONGKONG** 

WSCT

WSET

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

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apply to the tested sample.

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	$\times$		$\times$	X		X	
/					/		
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W5CT

# 1 Test Certification

Product: Mobile Phone

Model No.:

CM5

Additional (%)
Model:

NSET

TECNO

Applicant:

**TECNO MOBILE LIMITED** 

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Manufacturer:

**TECNO MOBILE LIMITED** 

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Date of receipt:

29 September 2024

**Date of Test:** 

29 September 2024 to 04 December 2024

Applicable Standards:

FCC CFR Title 47 FCC Part 15 Subpart E

WS CT

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The above equipment 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/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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(Wang Xiang)

WSLT

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Tested By:

Warf Kiarf

Checked By:

( Qin Shuiquan)

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Approved By:

(Li Huaibi)

Date: DE

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WSET

W5/

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

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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

W5CT°

# 2 **EUT Description**

	WELL	FT WEFT WEFT WE	ET
_	Product:	Mobile Phone	
	Model No.:	CM5	
	Trade Mark:	TECNO SET WSET WSET	/
	Software version:	CM5-H8918	X
	Hardware version:	V1.2 W5 C7 W5 C7	ET.
	Operation Frequency:	Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz  W5 [7]	
	Modulation type:	IEEE 802.11a/n/ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	otag
	Antenna Type:	PIFA Antenna	
/	Antenna Gain	-3.19dBi	S C T 1
		Adapter: U450TSB Input: 100-240V~50/60Hz 1.8A Output: 5.0V3.0A 15.0W or 5.0V-10.0V4.5A or 11.0V4.1A 45.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-54AT	
/	Operating Voltage:	Rated Voltage: 3.91V Rated Capacity: 5100mAh Nominal Energy:19.95Wh Typical Capacity: 5200mAh Limited Charge Voltage: 4.50V	ET
	Remark:	N/A.	

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Note: 1. N/A stands for no applicable.

2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

3. The laboratory shall be responsible for all information in the report, except for the information provided by the client. The data provided by the client should be clearly identified. In addition, when the information provided by the client may affect the validity of the results, a disclaimer should be included in the report. When the laboratory is not responsible for sampling (such as when the sample is provided by the customer), the results should be declared in the report as applicable to the received sample.

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**ac-MRA** 

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

Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2



3.1 MEA	SURFME	NT UNCERTAINTY	Wall	W-LI
J. I WILL	No.	Item	Uncertainty	
	1	Conducted Emission Test	±3.2dB	
WSET	2W5 CT	RF power, conducted	±0.16dB	LT°
$\times$	3	Spurious emissions, conducted	±0.21dB	$\times$
	4	All emissions, radiated(<1GHz)	±4.7dB	
W5 CT	5	All emissions, radiated(>1GHz)	±4.7dB <b>W5</b> [T]	W5CT*
	6	Temperature	±0.5°C	
	7	Humidity	±2%	
W5 CT	8 <i>N5 CT</i>	Receiver Spurious Emissions	±2.5%7	CT <sup>®</sup>
	9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
W5 ET®	10	Transmitter Unwanted Emission in the out-of Band	±1.3%	WSCT
	11	Occupied Channel Bandwidth	±2.4%	
X	X	X	X	X

Note:

- 1. The reported uncertainty of measurement y ± 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 %.
- 2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance
- 3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an
- adjustment is made follows: any additionan uncertainty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

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W5 CT°

#### 3.2 TEST ENVIRONMENT AND MODE

/	Operating Environment:		5 C I
	Temperature:	25.0 °C	
	Humidity:	56 % RH	
\	Atmospheric Pressure: W5 [7]	1010 mbar <i>W5 ET W5 ET</i>	
	Test Mode:		X
	Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of	5 C T

duty cycle is 98.46%)

W5ET°

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

WSET"

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

CT	Test Mode	Description	
	Mode 1	802.11a	
	Mode 2	802.11n20	
_/	Mode 3	W5 ET 802.11n40 W5 ET	_
	Mode 4	802.11ac20	
	Mode 5	802.11ac40	
CT.	Mode 6/5 [7]	W5 [7] 802.11ac80 W5 [7]	ſ

Note:

- (1) The measurements are performed at the highest, lowest available channels.
- (2) The EUT use new battery.

(3) Record the worst case of each test item in this report.

(3) Necord the worst case of each test term in this report

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W5 CT

3.3 TABLE O	F PARAMETER	S OF T	EXT SO	FTWAF	RE SET	TING		$\times$			X	
WSET		SET			SET			NS C1		_/	W5 E	7°
$\times$	Test program			*#	*#3646	633#*#	*			<b>X</b>		
WELL	Mode		WEE	Test	Freque	ency (Mi	Hz)		W	- CT		,
WSET		$\overline{}$	4W5L		NCB: 2		74			CT 1		/
X	802.11a	5180	5240	5260	5320	5500	5700	5745	5825		X	
WSET	802.11n	5180	5240	5260	5320	5500	5700	5745	5825	,	WSC	7
	802.11ac	5180	5240	5260	5320	5500	5700	5745	5825	/		
X	802.11n	5100	5230		NCB: 4		5670	E755	5705	X		
WS CT	802.1111	5190 5190	5230	5270 5270	5310 5310	5510 5510	5670 5670	5755 5755	5795 5795	ET.		
	002.11ac	3190	3230		NCB: 8	l	3070	3733	3793			
X	802.11ac	5210	5290	5530	5610	5775		X			X	
WSET		SET			SET	\		N5 CT		,	W5 C	7
										$\mathcal{I}$		
WSET	WSCT	/	W5C	7°		W5	CT°		W	SET"		/
		$\checkmark$			$\times$			$\bigvee$				
WSET	W	SET®		W	'S ET'	<del>\</del>	-/	W5 CT		_/	W5 C	7°\
$\times$	$\times$		$\times$							$\times$		
WSCT	WSCT		4W5 C			_W5	<i>ET</i> \		W	5 C T		$\overline{}$
X		X			X			X			X	
WSET	\ <u>\</u>	SCT°		6	SET <sup>®</sup>			W5 ET			W5 C	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				244	$\overline{}$				$\overline{}$		
X	X		X			$\rightarrow$				X		
WSET	WSET		W5C	7		W5	CT		W	S C T		
					/			\/				/
X		X		,	X			X			X	
WSET	W	SET		W	SET			W5 CT		ncation	18 Testin	7°
									Y	S	SCHOUL	
									rdizati	W.S	ET	Shenz

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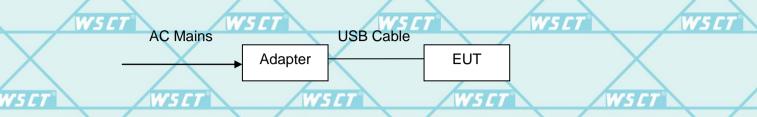
W5 CI



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W5CT°

#### CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Mobile Phone)

## 3.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	X
1	Adapter	WSCT /	U450TSB	WSIT	1	WSI
2	Earphone		N/A		1/	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
  - (2) For detachable type I/O cable should be specified the length in cm in <code>"Length "</code> column.
  - (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

	(4) The adapter supp	ly by the applicant.	WSET	W5ET*	WSET
WSCT	WSET	WSET			SCT
	WSET	WSET	WSLT	WSET	WSCT
WSCT	WSCT	WSCI	WS	E7 W	SCT
	WSET	WSET	WSET	$\times$	$\times$
X	X	X			Costincations Testing Cooling (Signature Control of Con

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WSCT

W5E7



**IC-MRA** Malalalala

Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

#### **SUMMARY OF TEST RESULTS** 4

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

Test procedures according to the technical standards:

	-	,,,16
	_4%	

FCC Part15 Subpart C&E							
Standard Section	Test Item	Judgment	Remark				
2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies				
15.407(e)	6dB Spectrum Bandwidth	PASS	Complies				
15.407(a)	Maximum Conducted Output Power	PASS	Complies				
15.407(a)	Power Spectral Density	PASS	Complies 5 C7				
15.407(b)	Unwanted Emissions	PASS	Complies				
15.207 <i>5 [ [ ]</i>	AC Conducted Emission W5 [7]	PASS W5	Complies	,			
15.407(g)	Frequency Stability	PASS	Complies				
15.407(c)	Automatically Discontinue Transmission	PASS	Complies	0			
15.203 & 15.407(a)	Antenna Requirement	PASS	Complies				
15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS	Complies				
	Section  2.1049 15.403(i) 15.407(e)  15.407(a)  15.407(b)  15.2075  15.407(c)  15.203 & 15.407(a)  15.407(h)	Standard Section  2.1049 15.403(i)  26dB & 99% Bandwidth  15.407(e)  6dB Spectrum Bandwidth  Maximum Conducted Output Power  15.407(a)  Power Spectral Density  15.407(b)  Unwanted Emissions  15.207  AC Conducted Emission  15.407(g)  Frequency Stability  15.407(c)  Automatically Discontinue Transmission  15.203 & Antenna Requirement  15.407(h)  Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	Standard Section  2.1049 15.403(i)  26dB & 99% Bandwidth  PASS  15.407(e)  6dB Spectrum Bandwidth  PASS  15.407(a)  Maximum Conducted Output Power  PASS  15.407(b)  Unwanted Emissions  PASS  15.407(g)  Frequency Stability  PASS  15.407(c)  Automatically Discontinue Transmission  PASS  15.203 & Antenna Requirement  PASS  15.407(h)  Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)  PASS	Standard SectionTest ItemJudgmentRemark2.1049 15.403(i)26dB & 99% BandwidthPASSComplies15.407(e)6dB Spectrum BandwidthPASSComplies15.407(a)Maximum Conducted Output PowerPASSComplies15.407(a)Power Spectral DensityPASSComplies15.407(b)Unwanted EmissionsPASSComplies15.207AC Conducted EmissionPASSComplies15.407(g)Frequency StabilityPASSComplies15.407(c)Automatically Discontinue TransmissionPASSComplies15.203 & 15.407(a)Antenna RequirementPASSComplies15.407(h)Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)PASSComplies			

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

W5 CT W5E1 WS CT

WSET

W5 CT°

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W5 E

W5 C

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W5CT



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# **5 MEASUREMENT INSTRUMENTS**

J	WSCT	WELL	WELT		VECT	WS	F
7	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	5
7°	Test software	- /w	EZ-EMC	CON-03A	- W	CT ·	
	Test software	/	MTS8310	-	\ <u>-</u>	-	
	EMI Test Receiver	R&S	ESCI	100005	11/04/2024	11/03/2025	
_	W5 (LISN	W AFJ	LS165 E 7	16010222119	11/04/2024	11/03/2025	Ľ
	LISN(EUT)	Mestec	AN3016	04/10040	11/04/2024	11/03/2025	
7	Universal Radio Communication Tester	R&S W	CMU 200	1100.0008.02	11/04/2024	11/03/2025	
	Coaxial cable	Megalon	LMR400	N/A	11/04/2024	11/03/2025	
	GPIB cable	Megalon	GPIB	N/A	11/04/2024	11/03/2025	
_	Spectrum Analyzer	R&S	FSU <sup>5</sup>	100114	11/04/2024	11/03/2025	L
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/04/2024	11/03/2025	
	Pre-Amplifier	CDSI	PAP-1G18-38		11/04/2024	11/03/2025	
7 1	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	9*6*6 Anechoic	X	- X		11/04/2024	11/03/2025	<
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/04/2024	11/03/2025	Ľ
/	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/04/2024	11/03/2025	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/04/2024	11/03/2025	
7°	System-Controller	ccs	N/A	w N/A	N.C.R	N.C.R	
	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		11/04/2024	11/03/2025	Ľ
	Loop Antenna	EMCO	6502	00042960	11/04/2024	11/03/2025	
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/04/2024	11/03/2025	
	Power meter	Anritsu	ML2487A	6K00003613	11/04/2024	11/03/2025	
	Power sensor	Anritsu	MX248XD		11/04/2024	11/03/2025	<
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/04/2024	11/03/2025	Ţ
						au au	-

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# **Facilities and Accreditations**

6.1 FACILITIES

W5C

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 City, Guangdong Province, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

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."

6.2 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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#### **Test Results and Measurement Data** 7

# 7.1 CONDUCTED EMISSION MEASUREMENT

POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

ý	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC
	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

	Receiver Parameters	Setting	LE.
	Attenuation	10 dB	
\	Start Frequency	0.15 MHz	
Ž	Stop Frequency W5 [T]	W5 [30 MHz W5 [T	
	IF Bandwidth	9 kHz	

WSCT WSCT WSCT WSCT	
WSCT WSCT WSCT WSCT WSCT	77
WSET WSET WSET WSET	





Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

## 7.1.1 TEST PROCEDURE

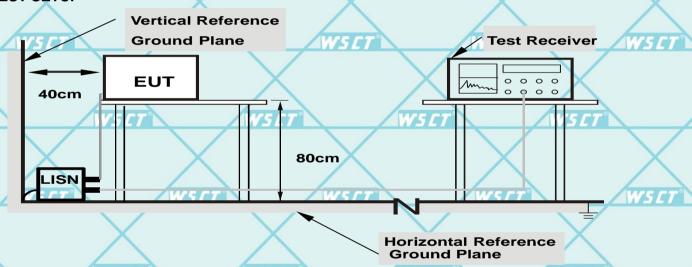
- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- h Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 7.2 DEVIATION FROM TEST STANDARD

No deviation

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#### **TEST SETUP**



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

WSET

#### **EUT OPERATING CONDITIONS**

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is

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.





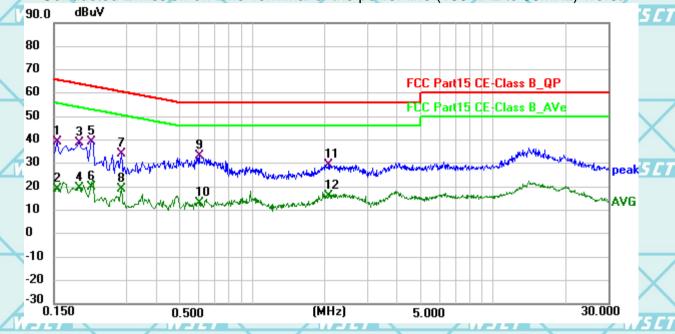
Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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#### **TEST RESULTS**

WS CT

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	ı
	1	0.1545	18.62	20.73	39.35	65.75	-26.40	QP	
	2	0.1545	-1.51	20.73	19.22	55.75	-36.53	AVG	
	3	0.1905	18.10	20.70	38.80	64.01	-25.21	QP	
C	4	0.1905	-1.05	20.70	19.65	54.01	-34.36	AVG	/
	5	0.2130	18.68	20.68	39.36	63.09	-23.73	QP	
	6	0.2130	-0.57	20.68	20.11	53.09	-32.98	AVG	
	7	0.2850	13.30	20.64	33.94	60.67	-26.73	QP	
	8	0.2850	-1.73	20.64	18.91	50.67	-31.76	AVG	
	9 *	0.6000	12.62	20.52	33.14	56.00	-22.86	QP	
ا	10	0.6000	-7.39	20.52	13.13	46.00	-32.87	AVG	
L	11	2.0670	8.88	20.61	29.49	56.00	-26.51	QP	
	12	2.0670	-4.70	20.61	15.91	46.00	-30.09	AVG	

Remark: All the modes have been investigated, and only worst mode is presented in this report.

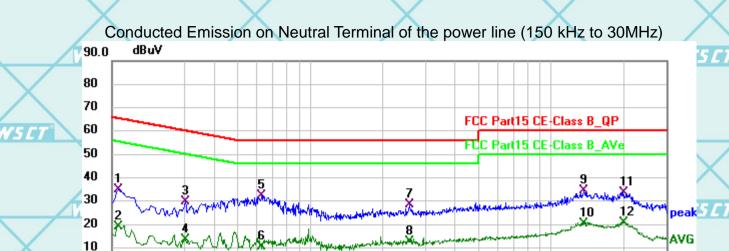
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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2



12/5/

0 -10 -20 -30

0.150 0.500

(MHz)

5.000

30.000

Frequency Reading Factor Limit Level Margin No. Detector (dBuV) (dBuV) (dBuV) (dB) (MHz) (dB) QP 1 0.159014.41 20.72 35.13 65.52 -30.392 0.1590 -1.5620.72 19.16 55.52 -36.36AVG 3 0.3030 9.03 20.63 29.66 60.16 -30.50QP 4 0.3030 -7.2320.63 13.40 50.16 -36.76AVG 5 QP 0.6270 11.99 20.53 32.52 56.00 -23.486 0.6270 -10.1520.53 10.38 46.00 -35.62AVG 7 7.72 QP 2.5845 20.60 28.32 56.00 -27.688 2.5845 -7.9820.60 12.62 46.00 -33.38 AVG QP 9 13.6455 14.23 20.25 34.48 60.00 -25.5210 13.6455 0.28 20.25 20.53 50.00 -29.47AVG WS QP 11 19.9229 13.38 20.26 33.64 60.00-26.3612 19.9229 0.62 20.26 20.88 50.00 -29.12AVG

Note1:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ( $dB\mu V$ ) = Reading level ( $dB\mu V$ ) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

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

 $Q.P. = Quasi-Peak \quad AVG = average$ 

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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### 7.3 RADIATED EMISSION MEASUREMENT

Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall W5 E within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

	Frequencies	Field Strength	Measurement Distance
_	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
ĺ	/5 [T 1.705~30.0 W5 [	7° 30 W5 CT°	M30 ET
	30~88	100	3
	88~216	150	3
	216~960	W5 [7200	<b>W5LT</b> 3 <b>W5L</b> T
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	W5 C 74	<b>W5</b> [T" 54 <b>W5</b> [		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

		4
Spectrum Parameter	Setting	
Attenuation	SCT WSCT Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	X
RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	5 C
band)		

	Receiver Parameter	Setting
1	Attenuation	5 CT W5 CAuto W5 CT
	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
1	W5 Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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#### **TEST PROCEDURE**

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

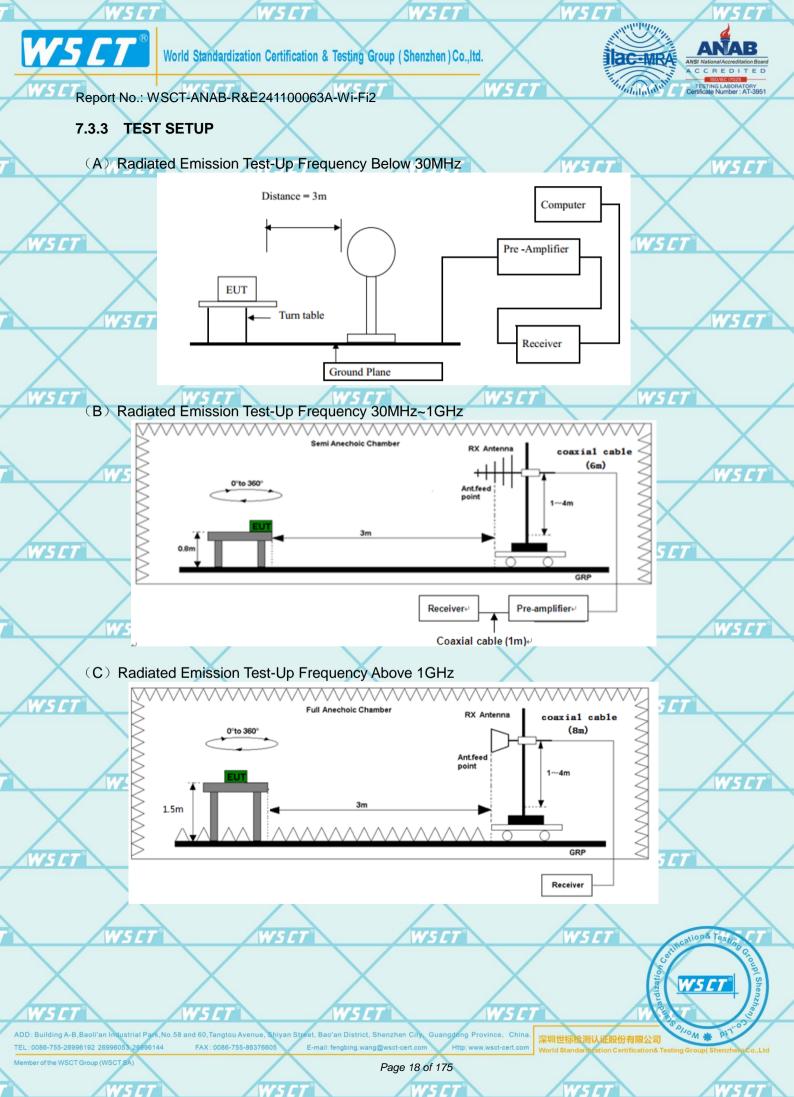
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

	ortnogonal axis. The wo	rst case emissions were rep	ported	$\wedge$	
7.	3.2 DEVIATION FROM	TEST STANDARD	SET WS	ET" WSE	
WSCT	No deviation	WSET	WSET	WSET	
	WSET	$\times$	$\langle \ \ \rangle$	SET WSC	<b>A</b>
WSCT	WSET	WSET	WSET	WSET	
	WSCT	WSET W	$\langle \ \rangle$	WS CI	7
WSCT	WSET	WSET	WSET	W5 ET	
	WSCT	$\times$	$\langle \hspace{0.1cm} \rangle$	$\times$	
X	X	X	X	SET WSET SELECTION STORY OF SHORY OF SH	

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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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#### 7.3.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.3.5 RESULTS (BELOW 30 MHZ)

WS ET

••	O REGOLIO DELOT	7 00 1111 12)			
	Freq.	Reading	Limit	Margin	State
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	MSLI	V S		121	M2 <sup>b</sup> /
	X	X		🗙	Р

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

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for 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.

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.

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

WSET	WSET	WSET	WSET	WSET	
WS					WSET
WSET	WSET	WSCT	WSET	WSET	
WS					WSCT
WSET	WSET	WSET	WSET	WSET	
WS		$\langle \hspace{0.1cm} \rangle$		<b>/</b>	Tesi
X	X	X	X	W.5	Testing Coup (Shenz

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## 7.3.6 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

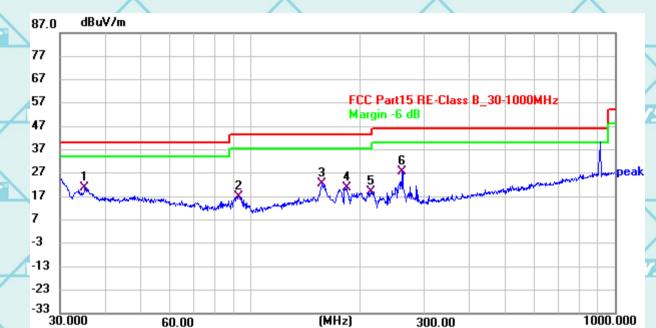
Please refer to following diagram for individual

**Below 1GHz** 

AWS CT

### Horizontal:

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								/ 11//	
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)
	1	35.2203	40.11	-19.47	20.64	40.00	-19.36	QP	100
1	2	93.1948	41.32	-24.18	17.14	43.50	-26.36	QP	100
	3	157.0762	42.14	-19.46	22.68	43.50	-20.82	QP	100
	4	184.0859	43.55	-22.59	20.96	43.50	-22.54	QP	100
5	5	214.4203	43.19	-24.10	19.09	43.50	-24.41	QP	100
	6 *	261.8604	49.21	-21.56	27.65	46.00	-18.35	QP	100

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Remark: All the modes have been investigated, and only worst mode is presented in this report.

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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.0132	53.89	-19.12	34.77	40.00	-5.23	QP
2	56.2221	46.71	-19.89	26.82	40.00	-13.18	QP
3	71.0492	49.68	-22.37	27.31	40.00	-12.69	QP
4	82.6844	52.36	-24.02	28.34	40.00	-11.66	QP
5	132.1626	38.69	-20.23	18.46	43.50	-25.04	QP
6	161.0501	44.03	-19.67	24.36	43.50	-19.14	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

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

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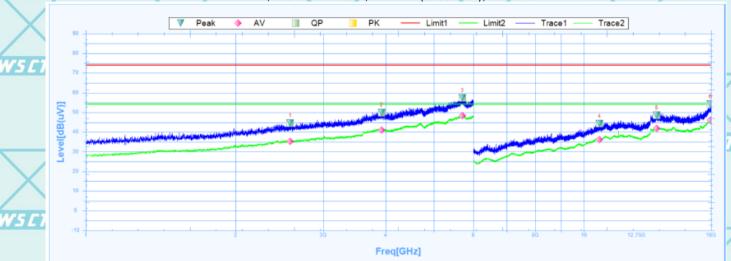
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## **TEST RESULTS (ABOVE 1GHZ)**

Note: 1. The spurious above 18G is noise only, do not show on the report.

2. Report and only recorded the worst-case scenario 802.11a.

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H



	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2573.1250	44.65	27.69	16.96	74	-29.35	258.1	Horizontal	PK	Pass
	1	2573.1250	35.29	27.69	7.6	54	-18.71	258.1	Horizontal	AV	Pass
Ž	2	3926.8750	49.98	29.52	20.46	74	-24.02	308.3	Horizontal	PK	Pass
	2	3926.8750	41.07	29.52	11.55	54	-12.93	308.3	Horizontal	AV	Pass
	3	5702.5000	57.34	32.32	25.02	74	-16.66	186.3	Horizontal	PK	Pass
	3	5702.5000	48.41	32.32	16.09	54	-5.59	186.3	Horizontal	AV	Pass
	4	10752.0000	44.26	14.69	29.57	74	-29.74	176.2	Horizontal	PK	Pass
J	4	10752.0000	36.12	14.69	21.43	54	-17.88	176.2	Horizontal	AV	Pass
	5	13999.5000	48.53	19.12	29.41	74	-25.47	1.5	Horizontal	PK	Pass
	5	13999.5000	41.88	19.12	22.76	54	-12.12	1.5	Horizontal	AV	Pass
I	6	17946.0000	54.23	23.55	30.68	74	-19.77	79.4	Horizontal	PK	Pass
L	6	17946.0000	46.12	23.55	22.57	54	-7.88	79.4	Horizontal	AV	Pass

	6 17946.0000	46.12	23.55	22.57	54	-7.88	79.4	Horizontal	AV	Pass	
	W5CT		VS CT°		WSET		W	SET		WSCT	
X		X		X		X			X		

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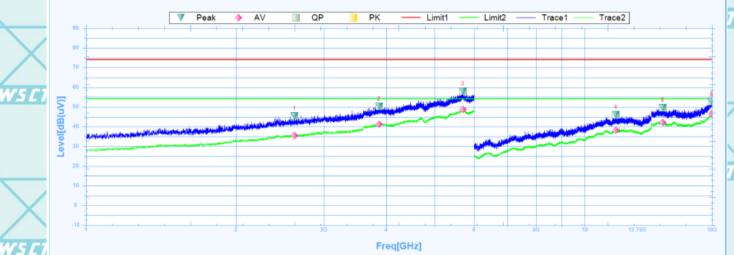


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## 11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V



Susputed Data List Reading **Factor** Level Limit Margin Deg Freq. NO. Verdict Polarity Trace [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 2617.5000 45.45 27.74 17.71 74 -28.55 356.6 Vertical PK Pass 35.43 54 356.6 2617.5000 27.74 7.69 -18.57 Vertical ΑV Pass 74 2 -0.1 PK Pass 3867.5000 50.31 29.38 20.93 -23.69 Vertical -0.1 ΑV Pass 3867.5000 41.2 29.38 54 -12.8 11.82 Vertical WSC. 3 5696.8750 58.06 32.32 74 -15.94 292.6 PΚ Pass 25.74 Vertical 5696.8750 48.68 32.32 16.36 54 -5.32 292.6 ΑV Pass 3 Vertical 11545.5000 46.03 16.21 29.82 74 -27.97 4.2 Vertical PΚ Pass 11545.5000 38.13 16.21 21.92 54 -15.87 4.2 Vertical ΑV Pass 5 14334.0000 49.56 18.79 30.77 74 -24.44 51.8 Vertical PK Pass 5 14334.0000 42.08 18.79 23.29 54 -11.92 51.8 ΑV Pass Vertical 6 17964.0000 52.8 23.67 29.13 74 -21.2 275.4 PK Pass Vertical 17964.0000 46.53 23.67 22.86 54 -7.47 275.4 ΑV Pass Vertical

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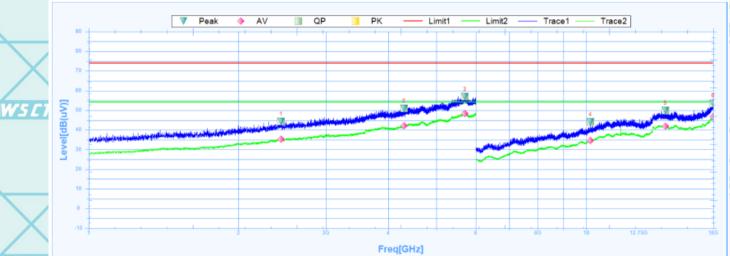




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11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H



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-	Suspu	usputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2433.7500	44.38	27.37	17.01	74	-29.62	213.3	Horizontal	PK	Pass	
	1	2433.7500	35.28	27.37	7.91	54	-18.72	213.3	Horizontal	AV	Pass	
	2	4303.7500	50.9	30.25	20.65	74	-23.1	172.6	Horizontal	PK	Pass	
	2	4303.7500	42.07	30.25	11.82	54	-11.93	172.6	Horizontal	AV	Pass	
r	3	5701.8750	56.99	32.32	24.67	74	-17.01	237.2	Horizontal	PK	Pass	
L	3	5701.8750	48.38	32.32	16.06	54	-5.62	237.2	Horizontal	AV	Pass	
	4	10200.0000	44.22	12.98	31.24	74	-29.78	27.2	Horizontal	PK	Pass	
	4	10200.0000	34.74	12.98	21.76	54	-19.26	27.2	Horizontal	AV	Pass	
	5	14419.5000	49.78	18.7	31.08	74	-24.22	127.5	Horizontal	PK	Pass	
	5	14419.5000	41.99	18.7	23.29	54	-12.01	127.5	Horizontal	AV	Pass	
	6	17989.5000	53.51	23.86	29.65	74	-20.49	359.5	Horizontal	PK	Pass	
	6	17989.5000	46.71	23.86	22.85	54	-7.29	359.5	Horizontal	AV	Pass	

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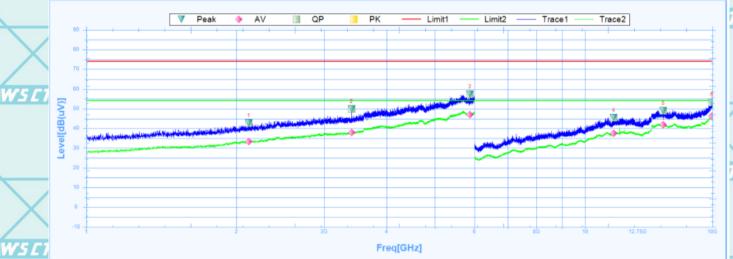
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	Suspu	ited Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2118.1250	42.9	26.3	16.6	74	-31.1	360.1	Vertical	PK	Pass
/	1	2118.1250	33.38	26.3	7.08	54	-20.62	360.1	Vertical	AV	Pass
/	2	3402.5000	49.77	28.44	21.33	74	-24.23	96.2	Vertical	PK	Pass
	2	3402.5000	37.88	28.44	9.44	54	-16.12	96.2	Vertical	AV	Pass
9	3	5876.2500	57.29	32.6	24.69	74	-16.71	360.1	Vertical	PK	Pass
	3	5876.2500	47.1	32.6	14.5	54	-6.9	360.1	Vertical	AV	Pass
	4	11418.0000	45.45	15.9	29.55	74	-28.55	243.6	Vertical	PK	Pass
	4	11418.0000	37.42	15.9	21.52	54	-16.58	243.6	Vertical	AV	Pass
	5	14349.0000	49.06	18.77	30.29	74	-24.94	219.6	Vertical	PK	Pass
	5	14349.0000	41.83	18.77	23.06	54	-12.17	219.6	Vertical	AV	Pass
	6	17965.5000	53.29	23.68	29.61	74	-20.71	241.2	Vertical	PK	Pass
1	6	17965.5000	46.4	23.68	22.72	54	-7.6	241.2	Vertical	AV	Pass

X	X	X	X	X
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WS CT

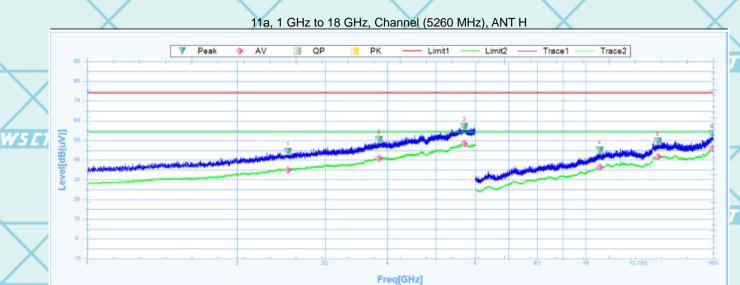
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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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_	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2526.2500	44.39	27.63	16.76	74	-29.61	86.4	Horizontal	PK	Pass
,	1	2526.2500	34.85	27.63	7.22	54	-19.15	86.4	Horizontal	AV	Pass
	2	3850.6250	50.41	29.34	21.07	74	-23.59	214.3	Horizontal	PK	Pass
	2	3850.6250	40.78	29.34	11.44	54	-13.22	214.3	Horizontal	AV	Pass
Ţ	3	5705.0000	57.03	32.33	24.7	74	-16.97	276.5	Horizontal	PK	Pass
L	3	5705.0000	48.39	32.33	16.06	54	-5.61	276.5	Horizontal	AV	Pass
	4	10656.0000	45.02	14.53	30.49	74	-28.98	339	Horizontal	PK	Pass
	4	10656.0000	36.33	14.53	21.8	54	-17.67	339	Horizontal	AV	Pass
	5	13933.5000	49.43	18.93	30.5	74	-24.57	358.7	Horizontal	PK	Pass
	5	13933.5000	41.63	18.93	22.7	54	-12.37	358.7	Horizontal	AV	Pass
1	6	17914.5000	53.23	23.35	29.88	74	-20.77	111	Horizontal	PK	Pass
	6	17914 5000	45.88	23.35	22 53	54	-8 12	111	Horizontal	AV	Pass

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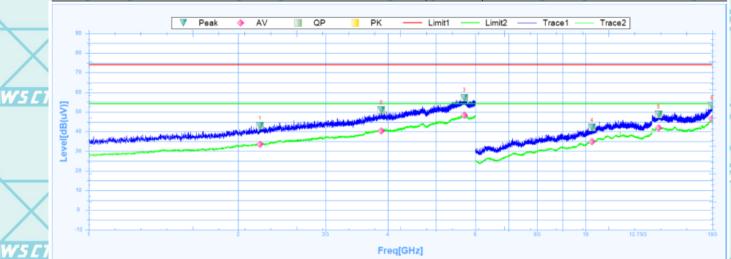




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V



	Suchi	ted Data Lis	·+								
	Juspu	iteu Data Lis									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2211.8750	42.99	26.62	16.37	74	-31.01	346	Vertical	PK	Pass
/	1	2211.8750	33.57	26.62	6.95	54	-20.43	346	Vertical	AV	Pass
	2	3879.3750	50.89	29.41	21.48	74	-23.11	1.6	Vertical	PK	Pass
	2	3879.3750	40.37	29.41	10.96	54	-13.63	1.6	Vertical	AV	Pass
킾	3	5702.5000	57.26	32.32	24.94	74	-16.74	145.2	Vertical	PK	Pass
	3	5702.5000	48.4	32.32	16.08	54	-5.6	145.2	Vertical	AV	Pass
	4	10303.5000	42.2	13.29	28.91	74	-31.8	0	Vertical	PK	Pass
	4	10303.5000	34.87	13.29	21.58	54	-19.13	0	Vertical	AV	Pass
	5	14023.5000	48.72	19.1	29.62	74	-25.28	199.4	Vertical	PK	Pass
	5	14023.5000	41.95	19.1	22.85	54	-12.05	199.4	Vertical	AV	Pass
	6	17970.0000	53.25	23.72	29.53	74	-20.75	154	Vertical	PK	Pass
1	6	17970.0000	46.54	23.72	22.82	54	-7.46	154	Vertical	AV	Pass

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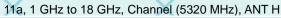
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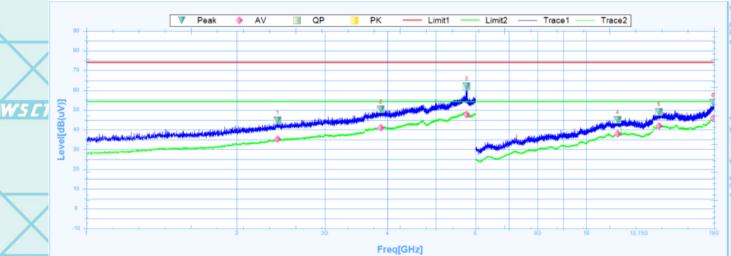




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2412.5000	44.77	27.3	17.47	74	-29.23	115.3	Horizontal	PK	Pass
	1	2412.5000	35.26	27.3	7.96	54	-18.74	115.3	Horizontal	AV	Pass
	2	3882.5000	50.23	29.42	20.81	74	-23.77	277.8	Horizontal	PK	Pass
/	2	3882.5000	41.1	29.42	11.68	54	-12.9	277.8	Horizontal	AV	Pass
1	3	5763.1250	61.96	32.42	29.54	74	-12.04	360	Horizontal	PK	Pass
24	3	5763.1250	47.68	32.42	15.26	54	-6.32	360	Horizontal	AV	Pass
	4	11547.0000	44.91	16.22	28.69	74	-29.09	220.8	Horizontal	PK	Pass
	4	11547.0000	37.96	16.22	21.74	54	-16.04	220.8	Horizontal	AV	Pass
	5	13963.5000	48.95	19.02	29.93	74	-25.05	311.7	Horizontal	PK	Pass
	5	13963.5000	41.86	19.02	22.84	54	-12.14	311.7	Horizontal	AV	Pass
/	6	17938.5000	53.58	23.51	30.07	74	-20.42	359.5	Horizontal	PK	Pass
	6	17938.5000	45.81	23.51	22.3	54	-8.19	359.5	Horizontal	AV	Pass

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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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## 11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT V



	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2332.5000	43.93	27.03	16.9	74	-30.07	270.6	Vertical	PK	Pass
	1	2332.5000	33.84	27.03	6.81	54	-20.16	270.6	Vertical	AV	Pass
	2	4369.3750	51.42	30.36	21.06	74	-22.58	5.4	Vertical	PK	Pass
	2	4369.3750	42.8	30.36	12.44	54	-11.2	5.4	Vertical	AV	Pass
Ĺ	3	5988.7500	57.2	32.78	24.42	74	-16.8	90.2	Vertical	PK	Pass
	3	5988.7500	48.07	32.78	15.29	54	-5.93	90.2	Vertical	AV	Pass
	4	11745.0000	46.7	16.11	30.59	74	-27.3	271	Vertical	PK	Pass
	4	11745.0000	43.06	16.11	26.95	54	-10.94	271	Vertical	AV	Pass
	5	14320.5000	49.64	18.79	30.85	74	-24.36	356.6	Vertical	PK	Pass
	5	14320.5000	41.56	18.79	22.77	54	-12.44	356.6	Vertical	AV	Pass
	6	17914.5000	53.43	23.35	30.08	74	-20.57	223.2	Vertical	PK	Pass
	6	17914.5000	46.01	23.35	22.66	54	-7.99	223.2	Vertical	AV	Pass

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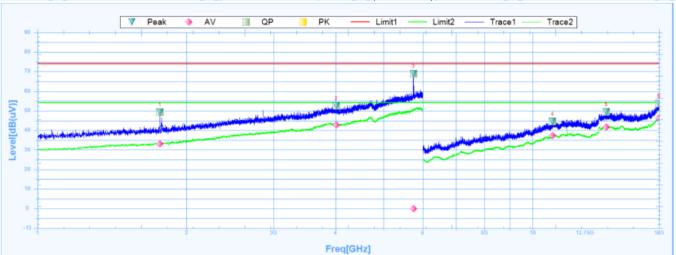




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT H



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ı	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1766.8750	49.28	24.98	24.3	74	-24.72	39.9	Horizontal	PK	Pass
	1	1766.8750	33.19	24.98	8.21	54	-20.81	39.9	Horizontal	AV	Pass
	2	4012.5000	52.51	29.72	22.79	74	-21.49	185.8	Horizontal	PK	Pass
	2	4012.5000	42.88	29.72	13.16	54	-11.12	185.8	Horizontal	AV	Pass
	3	5742.5000	68.79	32.39	36.4	74	-5.21	142.7	Horizontal	PK	Pass
4	3	5742.5099	0	32.39	-32.39	54	-54	10.3	Horizontal	AV	Pass
	4	10971.0000	44.6	15.46	29.14	74	-29.4	191	Horizontal	PK	Pass
-	4	10971.0000	37.25	15.46	21.79	54	-16.75	191	Horizontal	AV	Pass
	5	14088.0000	49.36	19.04	30.32	74	-24.64	-0.1	Horizontal	PK	Pass
	5	14088.0000	41.73	19.04	22.69	54	-12.27	-0.1	Horizontal	AV	Pass
	6	17995.5000	53.7	23.9	29.8	74	-20.3	238.8	Horizontal	PK	Pass
	6	17995.5000	46.37	23.9	22.47	54	-7.63	238.8	Horizontal	AV	Pass

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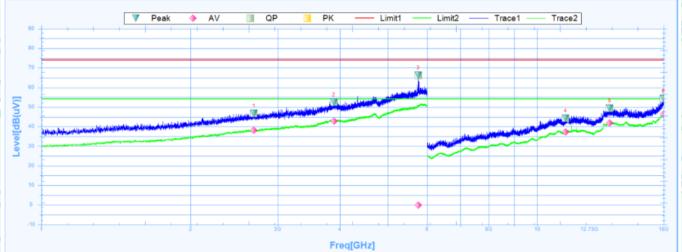




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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N	o. Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2683.1250	46.77	27.82	18.95	74	-27.23	49.4	Vertical	PK	Pass
1	2683.1250	38.06	27.82	10.24	54	-15.94	49.4	Vertical	AV	Pass
2	3890.6250	52.59	29.44	23.15	74	-21.41	212	Vertical	PK	Pass
2	3890.6250	42.8	29.44	13.36	54	-11.2	212	Vertical	AV	Pass
3	5754.3750	66.14	32.41	33.73	74	-7.86	2.2	Vertical	PK	Pass
3	5754.4159	0	32.41	-32.41	54	-54	360	Vertical	AV	Pass
4	11410.5000	44.42	15.88	28.54	74	-29.58	1.1	Vertical	PK	Pass
4	11410.5000	37.35	15.88	21.47	54	-16.65	1.1	Vertical	AV	Pass
5	14011.5000	49.35	19.12	30.23	74	-24.65	0.5	Vertical	PK	Pass
5	14011.5000	41.98	19.12	22.86	54	-12.02	0.5	Vertical	AV	Pass
6	17976.0000	54.26	23.76	30.5	74	-19.74	319.6	Vertical	PK	Pass
6	17976.0000	46.34	23.76	22.58	54	-7.66	319.6	Vertical	AV	Pass

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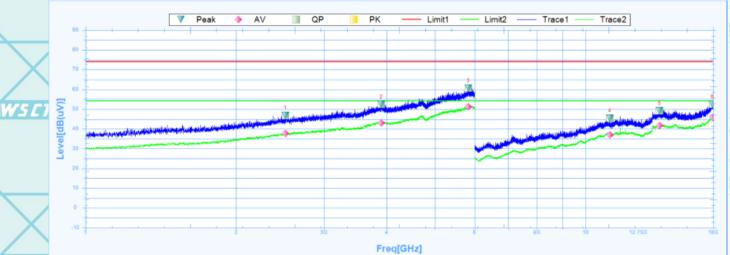




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2508.1250	46.89	27.61	19.28	74	-27.11	-0.1	Horizontal	PK	Pass
	1	2508.1250	37.67	27.61	10.06	54	-16.33	-0.1	Horizontal	AV	Pass
/	2	3905.0000	52.54	29.47	23.07	74	-21.46	359.5	Horizontal	PK	Pass
\	2	3905.0000	43	29.47	13.53	54	-11	359.5	Horizontal	AV	Pass
_	3	5828.1250	60.69	32.52	28.17	74	-13.31	23.6	Horizontal	PK	Pass
Z	3	5828.1250	51.16	32.52	18.64	54	-2.84	23.6	Horizontal	AV	Pass
	4	11185.5000	45.45	15.75	29.7	74	-28.55	213.2	Horizontal	PK	Pass
	4	11185.5000	37.17	15.75	21.42	54	-16.83	213.2	Horizontal	AV	Pass
	5	14068.5000	49.11	19.06	30.05	74	-24.89	14.4	Horizontal	PK	Pass
	5	14068.5000	41.73	19.06	22.67	54	-12.27	14.4	Horizontal	AV	Pass
/	6	17941.5000	52.58	23.53	29.05	74	-21.42	213.2	Horizontal	PK	Pass
	6	17941.5000	45.82	23.53	22.29	54	-8.18	213.2	Horizontal	AV	Pass

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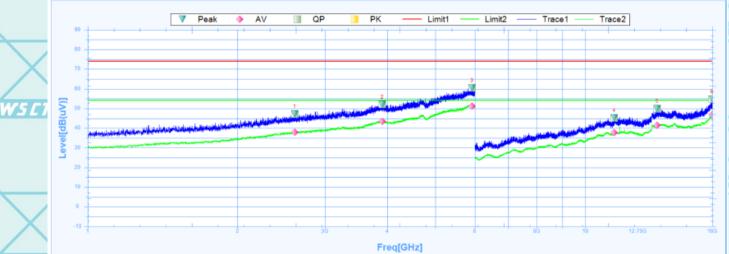




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	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2606.8750	47.28	27.73	19.55	74	-26.72	241.2	Vertical	PK	Pass
J	1	2606.8750	38.04	27.73	10.31	54	-15.96	241.2	Vertical	AV	Pass
	2	3908.7500	52.01	29.48	22.53	74	-21.99	127.6	Vertical	PK	Pass
	2	3908.7500	43.45	29.48	13.97	54	-10.55	127.6	Vertical	AV	Pass
	3	5924.3750	60.44	32.68	27.76	74	-13.56	0	Vertical	PK	Pass
L	3	5924.3750	51.22	32.68	18.54	54	-2.78	0	Vertical	AV	Pass
	4	11439.0000	45.2	15.95	29.25	74	-28.8	178.6	Vertical	PK	Pass
	4	11439.0000	37.63	15.95	21.68	54	-16.37	178.6	Vertical	AV	Pass
	5	13942.5000	49.89	18.95	30.94	74	-24.11	275.4	Vertical	PK	Pass
	5	13942.5000	41.47	18.95	22.52	54	-12.53	275.4	Vertical	AV	Pass
	6	17986.5000	54.7	23.83	30.87	74	-19.3	42.4	Vertical	PK	Pass
	6	17986.5000	46.69	23.83	22.86	54	-7.31	42.4	Vertical	AV	Pass

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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT H



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NO	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2761.8750	45.69	27.91	17.78	74	-28.31	357.4	Horizontal	PK	Pass
1	2761.8750	37.16	27.91	9.25	54	-16.84	357.4	Horizontal	AV	Pass
2	4231.8750	50.96	30.12	20.84	74	-23.04	-0.1	Horizontal	PK	Pass
2	4231.8750	42.67	30.12	12.55	54	-11.33	-0.1	Horizontal	AV	Pass
3	5793.7500	62.02	32.47	29.55	74	-11.98	206.4	Horizontal	PK	Pass
3	5793.7500	52.65	32.47	20.18	54	-1.35	206.4	Horizontal	AV	Pass
4	11746.5000	45.33	16.11	29.22	74	-28.67	357.1	Horizontal	PK	Pass
4	11746.5000	39.15	16.11	23.04	54	-14.85	357.1	Horizontal	AV	Pass
5	13981.5000	50.04	19.07	30.97	74	-23.96	360.1	Horizontal	PK	Pass
5	13981.5000	41.81	19.07	22.74	54	-12.19	360.1	Horizontal	AV	Pass
6	17976.0000	53.27	23.76	29.51	74	-20.73	151.1	Horizontal	PK	Pass
6	17976 0000	46.35	23.76	22.59	54	-7.65	151.1	Horizontal	Δ\/	Page

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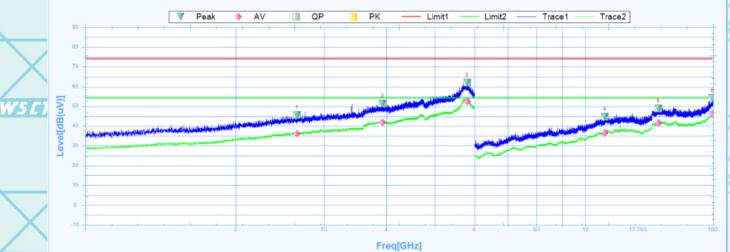




Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

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L	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2650.0000	45.57	27.78	17.79	74	-28.43	323.7	Vertical	PK	Pass
-	1	2650.0000	36.22	27.78	8.44	54	-17.78	323.7	Vertical	AV	Pass
/	2	3928.7500	51.37	29.53	21.84	74	-22.63	287.8	Vertical	PK	Pass
/	2	3928.7500	42.03	29.53	12.5	54	-11.97	287.8	Vertical	AV	Pass
	3	5800.6250	62.07	32.48	29.59	74	-11.93	40.3	Vertical	PK	Pass
Z	3	5800.6250	52.55	32.48	20.07	54	-1.45	40.3	Vertical	AV	Pass
	4	10930.5000	44.71	15.23	29.48	74	-29.29	306.6	Vertical	PK	Pass
	4	10930.5000	36.69	15.23	21.46	54	-17.31	306.6	Vertical	AV	Pass
	5	13998.0000	49.07	19.11	29.96	74	-24.93	251.6	Vertical	PK	Pass
	5	13998.0000	41.67	19.11	22.56	54	-12.33	251.6	Vertical	AV	Pass
1	6	17949.0000	54.23	23.57	30.66	74	-19.77	69.9	Vertical	PK	Pass
	6	17949.0000	46.43	23.57	22.86	54	-7.57	69.9	Vertical	AV	Pass

	W5CT	W5 CT	WSET	W5	ET W	5 CT
		X	X	X	X	X
		WSET	W5 ET	WSET	WSET	WSET
7	W5 ET	WSET	WSET	W.5	ET W.	SET
		X	X	X	X	X

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IWS CT

11a, 1 GHz to 18 GHz, Channel (5825 MHz), ANT H



W5 C

W5 C

N .	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2564.3750	45.85	27.68	18.17	74	-28.15	265.1	Horizontal	PK	Pass
	1	2564.3750	35.84	27.68	8.16	54	-18.16	265.1	Horizontal	AV	Pass
	2	4241.2500	51.87	30.13	21.74	74	-22.13	301	Horizontal	PK	Pass
	2	4241.2500	42.38	30.13	12.25	54	-11.62	301	Horizontal	AV	Pass
	3	5701.8750	61.81	32.32	29.49	74	-12.19	248.4	Horizontal	PK	Pass
1	3	5701.8750	52.64	32.32	20.32	54	-1.36	248.4	Horizontal	AV	Pass
	4	11551.5000	45.01	16.21	28.8	74	-28.99	141.5	Horizontal	PK	Pass
	4	11551.5000	37.68	16.21	21.47	54	-16.32	141.5	Horizontal	AV	Pass
	5	14130.0000	49.49	19	30.49	74	-24.51	0.7	Horizontal	PK	Pass
	5	14130.0000	41.56	19	22.56	54	-12.44	0.7	Horizontal	AV	Pass
	6	17982.0000	53.51	23.8	29.71	74	-20.49	360	Horizontal	PK	Pass
	6	17982 0000	46.29	23.8	22 49	54	-7 71	360	Horizontal	AV	Pass

WSLT	WSCT	WSET	W	TET W	(SET
	X	$\times$	$\times$	$\times$	$\times$
	WSET	WSET	WSCT	WSET	WSET
$\times$	$\times$	$\times$		<b>/</b>	$\times$
WSET	WSCT	WSCT	W	ET W	/SET°
	$\times$	$\times$	$\times$		$\times$
	WS CT°	WSCT	WSET	WSET	acation& Testing
	WSCT	WSET	WSET	WSET	Setting County She

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WSET

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ANSI National Accreditation Board
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11a, 1 GHz to 18 GHz, Channel (5825 MHz), ANT V



WSE

_	Suspu	ited Data Lis	st .								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2492.5000	44.38	27.57	16.81	74	-29.62	0	Vertical	PK	Pass
_	1	2492.5000	35.72	27.57	8.15	54	-18.28	0	Vertical	AV	Pass
	2	3796.8750	51.54	29.21	22.33	74	-22.46	53.5	Vertical	PK	Pass
\	2	3796.8750	41.38	29.21	12.17	54	-12.62	53.5	Vertical	AV	Pass
7	3	5710.0000	61.48	32.34	29.14	74	-12.52	90.6	Vertical	PK	Pass
L	3	5710.0000	52.68	32.34	20.34	54	-1.32	90.6	Vertical	AV	Pass
	4	11175.0000	44.36	15.77	28.59	74	-29.64	360.1	Vertical	PK	Pass
	4	11175.0000	37.32	15.77	21.55	54	-16.68	360.1	Vertical	AV	Pass
	5	13632.0000	48.33	18.06	30.27	74	-25.67	281.4	Vertical	PK	Pass
	5	13632.0000	41.11	18.06	23.05	54	-12.89	281.4	Vertical	AV	Pass
1	6	17952.0000	53.33	23.59	29.74	74	-20.67	0.4	Vertical	PK	Pass
	6	17952.0000	45.96	23.59	22.37	54	-8.04	0.4	Vertical	AV	Pass

#### Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
- 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.

measured				trength is too small to be
WSET	WSCT	WSET	WSET	WSCT
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				Cortill So City

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WS C

W5 E

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W5C1

**IAC-MRA** Certificate Number : AT-3951

W5C1

W5CI

W5 CI

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Report No.: WSCT-ANAB-R&E241100063A-Wi-Fi2

### 7.3.8 RESTRICTED BANDS REQUIREMENTS

	lest Result(Only recorded the worst case in the report):								/
	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
Ž		W5CT°	802.11	a(6Mbps) Test	channel:36	CT°		W5 CT°	
	5150	57.00	-5.24	51.76	68.23	16.47	H	PK	
	5150	51.52	-5.24	46.28	54	7.72	H	AV	
	5150 _ T	57.38	<b>V-4.87</b>	52.51	<b>75</b> 68.23	15.72	5 <u>V</u> 7	PK	/
	5150	50.09	-4.87	45.22	54	8.78	V	AV	
-			802.11	a(6Mbps) Test	channel:48			$\wedge$	İ
Ý	5350	57.70	-5.24	52.46	68.23	15.77	Н	PK_	
	5350	50.89	-5.24	45.65	54	8.35	H	AV	
	5350	54.19	-4.87	49.32	68.23	18.91	V	PK	
	5350	49.90	-4.87	45.03	<b>75 - 54</b>	8.97	5 VT	AV	/
			802.11a	(6Mbps) Test	channel: 165				
	5850	60.18	-5.24	54.94	122.23	67.29	Н	PK	
y	5850	60.06	-4.87	55.19	122.23	67.04	V	PK	
	Note: From Fr		i NALI						

Note: Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = Attenuation factor + Cable loss

Level  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

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

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W5 CI W5 C1 W5C1

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WSET





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## 7.4 ANTENNA REQUIREMENT

## Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

# Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### **Antenna Gain**

The Bluetooth antenna is a PIFA Antenna. it meets the standards, and the best case gain of the antenna is -3.19dBi.

WSET	WSET	WSCT	WSET	WSET	
	$\langle \hspace{0.1cm} \rangle$	CT W.S			WS CT
WSET	WSET	WSET	WSET	WSET	
	$\langle \hspace{0.1cm} \rangle$	CT WS			WS CT
WSCT	WSET	WSET	WSCT	WSCT	,
	$\langle \hspace{0.1cm} \rangle$	CT WS			NS CT
WSET	WSET	WSET	WSCT	WSET	,
	$\langle \hspace{0.1cm} \rangle$	CT WS		<b></b>	
WELL	AVE CT.	Weet	West	Continuations to	Gioup (Shenzhe

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## 7.5 EMISSION BANDWIDTH 7.5.1 TEST EQUIPMENT

Please refer to Section 5 this report.

#### TEST PROCEDURE

X	7.5.2 TEST PF	ROCEDURE	X	
	-26dB Bandwidth	and 99% Occupied Bandwidth:		
WS CI	Test Method:	a)The transmitter was radiated to the s	spectrum analyzer in peak hold mode.	
	rest wetrod.		emission that is 26 dB down from the peak of the	$\overline{}$
	X		setting of the analyzer. Readjust RBW and repeat	
		measurement as needed until the RBV		
		ing – 26dB Bandwidth:	Test Equipment Setting – 99%% Bandwidth:	MECET
	a)Attenuation: Auto		a)Span: 1.5 times to 5.0 times the OBW	AW3L/
	b)Span Frequency: >		b)RBW: 1 % to 5 % of the OBW	
X		tely 1% of the emission bandwidth	c)VBW: ≥ 3 x RBW	
	d)VBW: VBW > RE	3W	d)Detector: Peak	
	e)Detector: Peak		e)Trace: Max Hold	
WS C1	f)Trace: Max Hold	W5CT W5CT	WSET" WSET"	
	g)Sweep Time: Auto			
	6 dB Bandwidth:	\ <del>T</del>		
	Test Method:	a)The transmitter was radiated to the		
			with KDB789033 D02 v01 for Compliance Testing of	
	WSET		structure (U-NII) Devices - section (C) Emission	WSCT
	- LIPES	Bandwidth.	mad in accordance with KDDCCC044 D04 v00r04	
		Emissions	med in accordance with KDB662911 D01 v02r01	
X		Testing of Transmitters with Multiple C	Outpute in the Come Band	
		d)Measured the spectrum width with p	ower higher than 6dB helew carrier	
	Test Equipment Sett			
W5 CI	a)Attenuation: Auto		e)Detector: Peak	
	b)Span Frequency: >		f)Trace: Max Hold	
	c)RBW: 100kHz	> oub Bandwidth	g)Sweep Time: Auto	
			g)sweep Time. Auto	
	d)VBW: $\geq 3 \times RB$			
		cted Output Power Measurement:	WCTT" WCTT"	WSCT
	Test Method:	a)The transmitter output (antenna port		
			with KDB789033 D02 v01 for Compliance Testing of	
X			structure (U-NII) Devices - section (E) Maximum	
			ement using a Power Meter (PM) =>b) Method PM-G	
MARIE CO		(Measurement using a gated RF avera		
W5 [1			rmed in accordance with KDB662911 D01 v02r01	<del></del>
		Emissions	N	
	X	Testing of Transmitters with Multiple C	outputs in the Same Band.	X
			ed output power with multiple antenna systems, add	
	T . F C	every result of the values by mathema		
		ing: Detector - Average	WSCT WSCT	W5CT"
	Power Spectral D		Overs assessed DE switch to the assessment and beautiful.	
	Test Method:		t) was connected RF switch to the spectrum analyzer.	
			with KDB789033 D02 v01 for Compliance Testing of	
			structure (U-NII) Devices - section (F) Maximum Power	
W5C1		Spectral Density (PSD).	rmed in accordance KDB662911 D01 v02r01 in-Band	
WELS.		Power	illied in accordance NDD002311 D01 V02101 III-Band	
			s (a) Measure and sum the spectra across the	\/
	X		s (a) incasure and sum the spectra across the	X
		outputs.		

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frequency bins is computed in the same way.

obtain the value for

the other

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e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW)

d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to

the first frequency bin of the summed spectrum. The summed spectrum value for each of

ation& Test

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and the final result should ≤ 30 dBm. Test Equipment Setting: a)Attenuation: Auto e)Detector: RMS f)Trace: AVERAGE b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of the signal g)Sweep Time: Auto c)RBW: 1000 kHz h)Trace Average: 100 times d)VBW: 3000 kHz Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

Frequency Stability Measurement: a) The transmitter output (antenna port) was connected to the spectrum analyzer. Test Method: b)EUT have transmitted absence of modulation signal and fixed channelize. c)Set the spectrum analyzer span to view the entire absence of modulation emissions d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. e)fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 106 the limit is less than ±20ppm (IEEE 802.11nspecification). f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of nominal value g)Extreme temperature is 0°C~40°C Test Equipment Setting: a)Attenuation: Auto e)Sweep Time: Auto b)Span Frequency: Entire absence of modulation emissions bandwidth c)RBW: 10 kHz d)VBW: 10 kHz

#### CONFIGURATION OF THE EUT

Same as section 3.4 of this report

Same as section 3.5 of this report.

#### 7.5.4 EUT OPERATING CONDITION

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W5 CT

## 7.5.5 LIMIT

	-26dB Bandwidth	and 99% Occupied Bandwidth:		
	Limit:	No restriction limits.	WE CT	WELT
	-6 dB Bandwidth:		AND LI	M-3LI
\ /	Limit:	For digital modulation systems, the m	inimum 6dB bandwidth shall be at least 500 kHz.	
X	Test Equipment Se		X	
	a)Attenuation: Auto		e)Detector: Peak	
	b)Span Frequency		f)Trace: Max Hold	
V5 CT	c)RBW: 100kHz	WSET WSET	g)Sweep Time: Auto 5 E 7	7°
	d)VBW: ≥ 3 x RBW		g/out-of-	
		cted Output Power Measurement:		
	maximum conduct	<b>⊠</b> 5.15~5.2	25 GHz	X
	Limit of Outdoor		Limit of Indoor access point:	
		ducted output power over the	The maximum conducted output power over the	August 1
		operation shall not exceed 1 W	frequency band of operation shall not exceed 1 W	WSLI
		the maximum antenna gain does not	(30dBm) provided the maximum antenna gain does	
		nsmitting antennas of directional gain	not	
$\wedge$		are used, both the maximum	exceed 6 dBi. If transmitting antennas of directional	
/ `				
VE CT		power and the maximum power	gain greater than 6 dBi are used, both the maximum	
<u>FIJ</u>		all be reduced by the amount in dB	conducted output power and the maximum power	
		gain of the antenna exceeds 6 dBi.	spectral density shall be reduced by the amount in	
		p. at any elevation angle above 30	dB	X
		red from the horizon must not exceed	that the directional gain of the antenna exceeds 6 dBi.	
	125 mW (21 dBm).			
		pint-to-point access points:	Limit of Mobile and portable client devices:	W5CT
		ducted output power over the	The maximum conducted output power over the	/
		operation shall not exceed 1 W	frequency band of operation shall not exceed 250	
		int-to-point U-NII devices may employ	mW	
		ctional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does	
		uction in the maximum conducted	not	
		aximum power spectral density. For	exceed 6 dBi. If transmitting antennas of directional	
		transmitters that employ a directional	gain greater than 6 dBi are used, both the maximum	
		ter than 23 dBi, a 1 dB reduction in	conducted output power and the maximum power	V
		ed output power and maximum	spectral density shall be reduced by the amount in	
		nsity is required for each 1 dB of	dB	
	antenna gain in exc	Jess of 23 dbl.	that the directional gain of the antenna exceeds 6 dBi.	WSCT
	/	⊠5.25-5.35 GHz & ∑		
	The maximum con		y bands of operation shall not exceed the lesser of 250	
			mission bandwidth in megahertz. If transmitting	
			both the maximum conducted output power and the	
VEFT			amount in dB that the directional gain of the antenna	7.0
	exceeds 6 dBi.	section definity shall be reduced by the	amount in ab that the directional gain of the amenia	
	0.0000000000000000000000000000000000000	⊠5.725~5.	.85 GHz	
	The maximum con-		by band of operation shall not exceed 1 W (30dBm). If	X
	transmitting antenn	as of directional gain greater than 6 dF	Bi are used, both the maximum conducted output	
			educed by the amount in dB that the directional gain of	ATTENDED TO
			U-NII devices operating in this band may employ	WSET
	transmitting antenr			
X	directional gain gre	eater than 6 dBi without any correspond	ding reduction in transmitter conducted power.	
	Power Spectral D	ensity		
		⊠5.15~5.2	25 CH7	
VS CT	□Limit of Outdoor	access point: 17 dBm/MHz	Limit of Indoor access point: 17 dBm/MHz	7
		pint-to-point access points: 17	Limit of Mobile and portable client devices: 11	
	dBm/MHz	The to point doods points. The	dBm/MHz	
	☐5.25-5.35 GHz		11 dBm/MHz	
	□5.25-5.35 GHZ	7	11 dBm/MHz	
	⊠5.725~5.85 GHz		30 dBm/500kHz	ation& Testi
	Frequency Stabili		OU GIDHI/OUGH IZ	a ding
\ /	Limit:		the band of operation under all conditions of normal	130
X	LIIIII.	operation as specified in the user's manual results of the specified in the specif		WSCT She
			anual. $\frac{1}{2}$ ance shall be $\pm 20$ ppm maximum for the 5 GHz band	WSCT S
11-11-1		(IEEE		Zin.

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W5 CT



802.11n specification).

# 7.5.6 TEST RESULT

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## -26dB Bandwidth and 99% Occupied Bandwidth

Ż	Product	: EUT-Sample W5 L7	Test Mode	: See section 3.4
	Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 ℃
	Test Voltage	: DC 3.91V	Humidity	: 56%RH
	Test Result	: PASS		

## -26Db&99% Bandwidth

-2	$\sigma$ DD $\alpha$ 99	% Danuwiui	D .			
S C T	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
	a	5180	19.77	16.385	0.5	Pass
	a	5240	19.64	16.405	0.5	Pass
	a	5260	19.76	16.380	0.5	Pass
	$\Delta V_{a} S L$	5320	19.63	16.371	-0.5	Pass
	а	5500	19.62	16.390	0.5	Pass
X	а	5700	19.60	16.368	0.5	Pass
	n20	5180	21.74	17.570	0.5	Pass
S C T	n20	5240	19.81 ws	17.571 WS	0.5 WS	Pass
	n20	5260	21.75	17.571	0.5	Pass
	n20	5320	19.85	17.553	0.5	Pass
	n20	5500	21.71	17.569	0.5	Pass
	n20	5700	21.76	17.571	0.5	Pass
	n40	5190	40.75	35.980	0.5	Pass
	n40	5230	40.88	36.016	0.5	Pass
X	n40	5270	40.44	36.013	0.5	Pass
	n40	5310	42.12	35.980	0.5	Pass
S E T	n40	5510	44.539	35.978 W/5/	0.5 W 5	Pass
	n40	5670	52.13	36.010	0.5	Pass
	ac20	5180	19.93	17.532	0.5	Pass
	ac20	5240	20.13	17.542	0.5	Pass
	ac20	5260	19.94	17.551	0.5	Pass
	ac20	5320	19.97	17.546	0.5	Pass
	ac20	5500	19.99	17.565	0.5	Pass
X	ac20	5700	20.37	17.579	0.5	Pass
	ac40	5190	40.27	35.940	0.5	Pass
SET"	ac40	5230	40.34 1/5	35.955 W5	0.5 WS	Pass
	ac40	5270	51.13	36.115	0.5	Pass
	ac40	5310	46.81	36.064	0.5	Pass
	ac40	5510	39.99	35.959	0.5	Pass
	ac40	5670	40.59	35.959	0.5	Pass
	ac80	5210	91.37	75.349	0.5	Pass
	ac80	5290	80.37	75.363	0.5	Pass
X	ac80	5530	80.67	75.145	0.5	Pass
1	ac80	5610	80.54	75.217	0.5	Pass
EFT		WELT	WSC	WEI		

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W5 CT

## -6dB&99% Bandwidth

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	Mode	Frequency	-6 dB Bandwidth	99%dB Bandwidth	Limit -6 dB	Verdict	
		(MHz)	(MHz)	(MHz)	Bandwidth (MHz)		CT"
	а	5745	15.83	16.330	0.5	Pass	
X	а	5825	12.27	16.340	0.5	Pass	
	n20	5745	13.81	17.531	0.5	Pass	
A	n20	5825	13.89	17.540	0.5	Pass	
W5CT"	n40	5755	35.12	35.886	0.5	Pass	_/
	n40	5795	33.85	35.920	0.5	Pass	
	ac20	5745	15.10	17.550	0.5	Pass	
	ac20	5825	15.09	17.549	0.5	Pass	
	ac40	5755	W5 € 35.06	W 5 35.819	W5/0.5	Pass	CT°
$\overline{}$	ac40	5795	33.75	35.826	0.5	Pass	
X	ac80	5775	75.10	75.163	0.5	Pass	

	4010	0100	00.00	00.010	7 7 70.0	1 400	
	ac40	5795	33.75	35.826	0.5	Pass	
X	ac80	5775	75.10	75.163	0.5	Pass	
W5 ET		WSET	W5 ET	WSET	W5.	7	
							7
	X		X	X	X	$\rightarrow$	
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