W5CT



TEST REPORT

FCC ID: 2ADYY-T14RA-1

Product: Laptop Computer

WS LT

Model No.: T14RA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

Issued Date: 14 October 2024

WSET

Issued for:

TECNO MOBILE LIMITED

NSC

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

AWSET"

WSCT

Issued By:

W5 // World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

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							\ /	

W5 CT	W5CT	WS CT	W5CT"	W5CT"	

_/	W5 ET	W5CT"	WSET	WSCT	W5ET°

WS CT	W5CT*	W5CT°	W5 CT	W5 CT

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

Test Certification

Product:

Laptop Computer

Model No.: T14RA

Additional Model:

Applicant:

TECNO

TECNO MOBILE LIMITED

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

STREET FOTAN NT HONGKONG

TECNO MOBILE LIMITED Manufacturer:

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

STREET FOTAN NT HONGKONG

29 August 2024 to 11 October 2024 W5 [7] Date of Test:

Applicable FCC CFR Title 47 FCC Part 15 Subpart E Standards:

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.

(Wang Xiang)

Checked By:

(Qin Shuiquan)

Approved By:

Tested By:

(Li Huaibi)

WSLT

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

W5 CT

EUT Description

W5 CT

WS E1

W5 CT

	WSIT	CT WSCT WSCT W	5 C T °
	Product:	Laptop Computer	
	Model No.:	T14RA	
0	Trade Mark:	TECNO ^{SET} WSET WSET	-
/	Operation Frequency:	U-NII-5: 5925-6425MHz U-NII-6: 6425-6525MHz U-NII-7: 6525-6875MHz U-NII-8: 6875-7125MHz	ET
	Modulation type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)	
	Antenna Type:	FIPA Antenna	
	Antenna Gain	ANT1(MAIN):2.98dBi ANT2(AUX): 2.98dBi	\leq
<i>/</i>	EUT Power Rating	Adapter: FC498U INPUT: 100-240V~50/60Hz 1.5A MAX OUTPUT: PD:5V=3A 9V=3A	3.CT
	Remark:	N/A.	

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

2. Antenna gain provided by the customer.

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W5CT

Configuration differences

	Configuration/ Processor	WS CT TDP WS CT	
/	T14RA (i5-1335U)	15W	
	T14RA (i7-1355U)	15W	
7	T14RA (i5-13420H)	w5 30W W5 77	
4	T14RA (i7-13620H)	30W	
	T14RA (i7-13700H)	30W	
Note: These models of TDP are different, and the T14RA (i7-13620)			

Note: These models of TDP are different, and the T14RA (i7-13620H) is the main test model reported

WSCT WSCT

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WSET WSET WSET WSET

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o'an District, Shenzhen City, Guangdong Province, China.

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3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

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

WSC

	No.	Item	Uncertainty	
W5	1	Conducted Emission Test W5/	±3.2dB	WSCT
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
WSET	4 W	All emissions, radiated(<1GHz)	±4.7dB 5 7 7	W5CT°
	5	All emissions, radiated(>1GHz)	±4.7dB	
	6	Temperature	±0.5°C	X
W5	7	Humidity s r ws	±2% W577°	WSET
	8	Receiver Spurious Emissions	±2.5%	
X	9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	X
WSET	10 W	Transmitter Unwanted Emission in the out-of Band	±1.3%/5 <i>CT</i>	WSCT
	11	Occupied Channel Bandwidth	±2.4%	

WSET	WSLT	SET	SET

WS CT	WSET	WSET	WSET	W5 ET

W5 CT	W5 ET°	WS ET	W5 ET	W5 CT"

WS CT"	WSCT	WSCT	WSCT	MACC CT
				W5CT

W5CT"	W.E.C.	MAC CTO	MAC CT.
	W5ET*	WSET	W5ET

WSCT WSCT WSCT WSCT

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W5 CT°







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3.2 TEST ENVIRONMENT AND MODE

/	Operating Environment:	
	Temperature:	25.0 °C
	Humidity:	56 % RH
	Atmospheric Pressure:	1010 mbar 1/5 [7] W5 [7]

PP 4	Mode:
'l'act	Mode
1631	MIUUC.

Engineering mode:	Keep t	the FUT in co	ontinuous t	ransmitting by
V5 [7] W5 [coloct	channel and	Lmodulatio	ns(The value of
				115(THE VAIUE OF
	duty c	ycle is 98.46	%)	

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.

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.

	Test Mode	Description
	Mode 1	802.11ax20
1	Mode 2	802.11ax40
	Mode 3	802.11ax80
	Mode 4	802.11ax160

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.

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CONFIGURATION OF SYSTEM UNDER TEST

W5C **USB** Cable **AC Mains** EUT Adapter WSET W5 C7

WSCI

(EUT: Laptop Computer)

3.3 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
1	Adapter	WSCT	FC498U	WSCT	1
2	Router	ASUS	GT-AXE11000	M6LAJF201230	

Note:

rs et

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2)For detachable type I/O cable should be specified the length in cm in Length a column.
- "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core". (3)
- The adapter supply by the applicant. (4)

WSET	WSET	WSCT	WSC	, w	SET
	WSET	WSET	WSET	WSET	WSET
WSET	WSCT		$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		SET
	WSLT	WSLT	WSET	WSET	acationa Testa

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ac-MRA

W5C

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SUMMARY OF TEST RESULTS 4

Test procedures according to the technical standards:

VS CT	/

		FCC Part15 Subpart C&E		
4	Standard Section	Test Item	Judgment	Remark
	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	PASS	Complies
	2.1049	99% Occupied Bandwidth	PASS	Complies
	15.407(a)(8)	Maximum Conducted Output Power	PASS	Complies
57	15.407(a)(8)	Fundamental Maximum EIRP	PASS	Complies
	15.407(a)(8)	Power Spectral Density	PASS	Complies
	15.407(b)	Fundamental Power Spectral Density	PASSV5	Complies
\langle	15.407(d)(6)	Contention Based Protocol	PASS	Complies
<u> </u>	15.407(b)	Unwanted Emissions	PASS	Complies
	15.207	AC Conducted Emission	PASS	Complies
	15.407(c)	Automatically Discontinue Transmission	PASS	Complies
	15.407(b)(6)	In-Band Emissions (Channel Mask)	PASS	Complies

NOTE:

(1)" N/A" denotes test is not applicable in this test report. W 5 [7]

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

(3) All test items in this report, except for power and PSD, are tested based on the minimum antenna gain

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WS CT

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4.1 CARRIER FREQUENCY AND CHANNEL

	Tootin	*** C *** C ***	ET W5 *#*#3646633#*#* W5 ET								
_	rest p	rogram	# #3040033# #								
		Channel	1	5	9	13	17	21	25	29	
	BW 20M	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095	
		Channel		3/5 [T]		11 W	5 E T 1	9	W-52	77	
	BW 40M	Freq. (MHz)	59	85	60	005	60	45	6085		\checkmark
		Channel	7				23				\wedge
1	BW 80M	Freq. (MHz)	ET°	598	35 W 5	FT .		W 5 60	65	M	75 E T
		Channel					5				
	BW 160M	Freq. (MHz)				60)25				

_									1 A 4 A	
		Channel	33	37	41	45	49	53	57	61
	BW 20M	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
		Channel	3	5	43		51		59	
4	BW 40M	Freq. (MHz)	61	25	6	165	6205		6245	
		Channel		39)		\times	5	5	
	BW 80M	Freq. (MHz)		614	5		6225			
1		Channel		NSET I	_		15 <i>L T</i> 17		W5	
	BW 160M	Frea. (MHz)	6185					\vee		

1		Channel	C 65	69	735	77	81	W85/7	89	93	7
	BW 20M	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415	
		Channel	6	7		75	83		91		
	BW 40M	Freq. (MHz)	62	285 6325			6365		6405		
		Channel		71				8	7		
	BW 80M	Freq. (MHz)		630)5			63	85		
1	Channel				79					-	2
	BW 160M	Freq. (MHz)		$\overline{}$		63	345				_

W5 CT W5 C7 WSET W5 CT

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1		Channel	97	101	105	109	113	117	121	125	
	BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575	
		Channel	9	99		107		15	123		
	BW 40M	Freq. (MHz)	6445		6485		6525		6565		
		Channel		<i>V5 L /</i>	3	1	547	11	19		
	BW 80M	Freq. (MHz)	X	646	35			65	45		
		Channel				1	111				
	BW 160M	Freq. (MHz)	ET .		W5	65	505	W5 CT		N	

W5 CT

W5 ET

W5 CT

	Channel	129	133	137	141	145	149	153	157
BW 20M	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
	Channel	1:	31	1	39	14	47	15	55
BW 40M	Freq. (MHz)	6605		6	645	5 6685		6725	
	Channel	CT	13	5 w s		,	W 5 / 15	51	
BW 80M	Freq. (MHz)	6625					67	05	
	Channel		X		1	43		>	
BW 160M	Freq. (MHz)	1	WELL		66	665		Avec	CZ

W5 E7

		Channel	161	165	169	173	177	181	185	189	
	BW 20M	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895	
1		Channel	<i>LT</i> 10	63	W5	71	1	79V5C7	18	37 V	L
	BW 40M	Freq. (MHz)	67	65	68	305	68	45	68	85	
		Channel		167				183			
Z	BW 80M	Freq. (MHz)		V5	35	M	SET	68	65 W5	CT .	
		Channel				1	175				\
	BW 160M	Freg. (MHz)				68					/

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W5 CT W5 C7

> W5 CT WS CT W5 C7 WSET

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A		Channel	193	197	201	205	209	213	217	221	
	BW 20M	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055	
		Channel	19	95	2	03	2.	11	21	9	
	BW 40M	Freq. (MHz)	69	25	69	965	70	005 704		45	
		Channel		199 V				21	15 W 5		
	BW 80M	Freq. (MHz)	/	6945				7025			
		Channel				2	07				
BW 160M Freq. (MHz) 6985								M			

	BW	Channel	225	22	9
WSET	20M	Freq. (MHz)	W5 [T] 7075	75 [7] 709	95 W5/7
	BW	Channel		227	
X	40M	Freq. (MHz)	X	7085	
WSCT		WSCT	WSCT	WS	(T)

WSET	WSLT	WSET	WSLT	WSET	,
WS		$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		SCT
WSCT	WSCT	WSCT	WSCT	WSGT	

	WSET	W5CT*	WSET	WSET	WSET
X	X			X	X
WSET	WSC	W5	TT W	SET	WSET

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4.2 TEST MODE

Final test modes are considering the modulation and worse data rates as below table

	Tillar test modes are considering the module	ation and worse data rates as below table.			
W	Modulation	Data Rate			
	802.11ax HE20	MCS0			
	802.11ax HE40	MCS0			
WSCT	W5 802.11ax HE80 W5 57	W5ET MCSO W5ET			
	802.11ax HE160	MCS0			

W5ET	W5 [802.11ax HE80] W5 [7]	W5 CT MCS0	WSET
	802.11ax HE160	MCS0	
W	SET WSET W	VS CT WS C	T WS ET
\sim	\times	\times	\times
Aug Cra	We er	NAC CT.	Wee ex
WSET	WSET WSET	WSET	WSET
	X	X	X
W	SCT WSCT W	WSET WSE	T° WSET°
WSET	WSET	WSET	WSET
	\times	\times	
W	SET WSET V	VS ET® WS E	T" WSET"
\times	X	X	X
WSET	WSET WSET	WSET	WSET
	X X	X	X
W	SET WSET W	WS CT WS C	WSCT

\checkmark			·	/		
\wedge	\wedge	\wedge		\wedge	\wedge	

W5CT	WSET	WSC	7	WSCT	WSET

	W5CT	W5 ET	W5 CT	W5 CT	acation& Testin	A I
/					certification Testing Co	\

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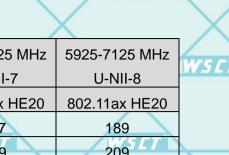






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W5 CT



5925-7125 MHz 5925-7125 MHz 5925-7125 MHz CH.# U-NII-5 U-NII-6 U-NII-7 802.11ax HE20 802.11ax HE20 802.11ax HE20 117 Low 001 097 М Middle 045 105 149 209 Н High 093 113 229 Straddle 185

CH.#			5925-7125 MHz	5925-7125 MHz	5925-7125 MHz	5925-7125 MHz
		CH.#	U-NII-5	U-NII-6	U-NII-7	U-NII-8
			802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
	L	Low	003	099	123	203
	М	Middle	043	- X	147	<u> </u>
7	Н	High	091	107ws - 7	179	227
Straddle		raddle		115	-/	187

- 0						
			5925-7125 MHz	5925-7125 MHz	5925-7125 MHz	5925-7125 MHz
CH.#		CH.#	U-NII-5	U-NII-6	U-NII-7	U-NII-8
			802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
	Г	Low	007		135	199
7	М	Middle	039	103W5 ET	- W	ET"
	Н	High	087		151	215
	St	raddle	_	119	183	

							L
/			5925-7125 MHz	5925-7125 MHz	5925-7125 MHz	5925-7125 MHz	
	(CH.#	U-NII-5	U-NII-6	U-NII-7	U-NII-8	
_			802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160	/
Æ	L	Low	015				
	М	Middle	047	X -	143	207	
	Ι	High	079				
	St	traddle	-	111	175	WSLI	

Note: 1. For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2. The RF test items make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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MEASUREMENT INSTRUMENTS

WELT	WSCT	WSCT		VE CT.	WS	r
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
Test software	- WS	EZ-EMC	CON-03A	WS	ET"	
Test software	\ <u>-</u> /	MTS8310	-	V-	-	
EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W5 LISN	W-AFJ	LS165 LT	16010222119	11/05/2023	11/04/2024	Ľ
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
Universal Radio Communication Tester	R&S WS	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	1
GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
Spectrum Analyzer	R&S	FSU ^S ET	100114	11/05/2023	11/04/2024	Ľ
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
9*6*6 Anechoic	X	X		11/05/2023	11/04/2024	<
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/05/2023	11/04/2024	Ľ
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	
System-Controller	ccs ws	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	-/	11/05/2023	11/04/2024	E
Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
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		11/05/2023	11/04/2024	
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	ſ
	EQUIPMENT Test software Test software EMI Test Receiver LISN LISN(EUT) Universal Radio Communication Tester Coaxial cable GPIB cable Spectrum Analyzer Pre Amplifier Pre-Amplifier Bi-log Antenna 9*6*6 Anechoic Horn Antenna Cable System-Controller Turn Table Antenna Tower RF cable Loop Antenna Horn Antenna Horn Antenna	NAME OF EQUIPMENT Test software Test software EMI Test Receiver R&S LISN LISN AFJ LISN(EUT) Mestec Universal Radio Communication Tester Coaxial cable Megalon GPIB cable Megalon Spectrum Analyzer Pre-Amplifier H.P. Pre-Amplifier Bi-log Antenna SUNOL Sciences 9*6*6 Anechoic Horn Antenna COMPLIANCE ENGINEERING Horn Antenna SCHWARZBECK Cable TIME MICROWAVE System-Controller CCS Antenna Tower CCS RF cable Murata Loop Antenna SCHWARZBECK Power meter Anritsu Power sensor Anritsu	Test software EZ-EMC Test software MTS8310 EMI Test Receiver R&S ESCI LISN AFJ LS16 LISN(EUT) Mestec AN3016 Universal Radio Communication Tester Coaxial cable Megalon LMR400 GPIB cable Megalon GPIB Spectrum Analyzer R&S FSU Pre Amplifier H.P. HP8447E Pre-Amplifier CDSI PAP-1G18-38 Bi-log Antenna SUNOL Sciences JB3 9*6*6 Anechoic Horn Antenna SCHWARZBECK BBHA9120D Cable TIME MICROWAVE LMR-400 System-Controller CCS N/A Antenna Tower CCS N/A RF cable Murata MXHQ87WA300 Power meter Anritsu ML2487A Power sensor Anritsu MX248XD	NAME OF EQUIPMENT MANUFACTURER MODEL SERIAL NUMBER Test software EZ-EMC CON-03A Test software MTS8310 - EMI Test Receiver R&S ESCI 100005 LISN AFJ LS16 16010222119 LISN(EUT) Mestec AN3016 04/10040 Universal Radio Communication Tester R&S CMU 200 1100.0008.02 Coaxial cable Megalon LMR400 N/A Spectrum Analyzer R&S FSU 100114 Pre Amplifier H.P. HP8447E 2945A02715 Pre-Amplifier CDSI PAP-1G18-38 Bi-log Antenna SUNOL Sciences JB3 A021907 9*6*6 Anechoic Horn Antenna COMPLIANCE ENGINEERING CE18000 Horn Antenna SCHWARZBECK BBHA9120D 9120D-631 Cable TIME MICROWAVE LMR-400 N-TYPE04 System-Controller <	NAME OF EQUIPMENT MANUFACTURER MODEL SERIAL NUMBER Calibration Date Test software EZ-EMC CON-03A - Test software MTS8310 - - EMI Test Receiver R&S ESCI 100005 11/05/2023 LISN AFJ LS16 16010222119 11/05/2023 LISN(EUT) Mestec AN3016 04/10040 11/05/2023 Universal Radio Communication Tester CMU 200 1100.0008.02 11/05/2023 Coaxial cable Megalon LMR400 N/A 11/05/2023 GPIB cable Megalon GPIB N/A 11/05/2023 Spectrum Analyzer R&S FSU 100114 11/05/2023 Pre Amplifier H.P. HP8447E 2945A02715 11/05/2023 Pre-Amplifier CDSI PAP-1G18-38 11/05/2023 Pre-Amplifier CDSI PAP-1G18-38 11/05/2023 Bi-log Antenna SUNOL Sciences JB3 A021907 11/	NAME OF EQUIPMENT

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Facilities and Accreditations

6.1 FACILITIES

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

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

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 accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

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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W5 C1

Test Results and Measurement Data 7

7.1 CONDUCTED EMISSION MEASUREMENT

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

Ž		Class A	(dBuV)	Class B	(dBuV)	Ctondord
	FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
	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
Attenuation	X	10 dB
Start Frequency		0.15 MHz
Stop Frequency	W5CT°	W5 / 30 MHz W5 / 7
IF Bandwidth		9 kHz

		\checkmark			
Aug	CT //	SET	We ex	WSET	W5 CT°
W5			WSET		
			X		

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	W5CT"	WSET	WSCT	WSCT	MACCET
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7.1.1 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected WSI 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.
- b. 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.

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7.2 DEVIATION FROM TEST STANDARD

No deviation

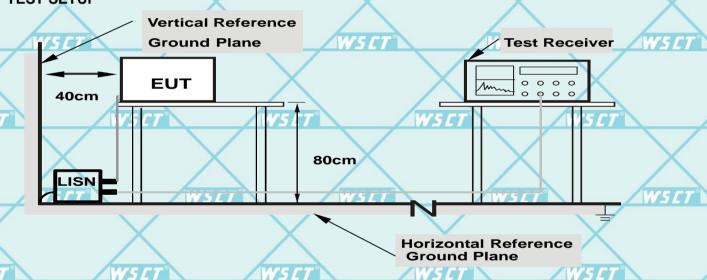
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TEST SETUP

WS CT



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

7.2.1 EUT OPERATING CONDITIONS

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

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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ding A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue

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WSET



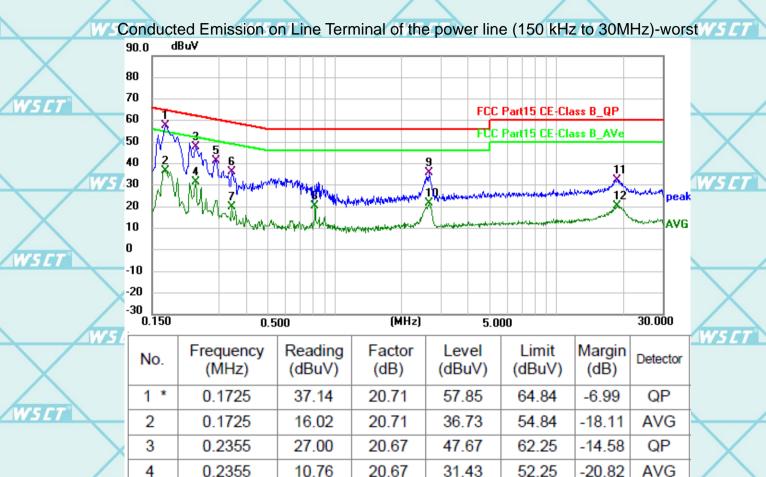




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WSCI

7.2.2 **TEST RESULTS**



5 0.2895 20.54 20.64 41.18 60.54 -19.36QP 6 0.3435 15.41 36.01 59.12 -23.11QP 20.60 7 0.3435 -0.6220.60 19.98 49.12 -29.14AVG -25.728 0.8160 -0.3120.59 20.28 46.00 AVG 9 2.6700 15.14 20.60 35.74 56.00 -20.26QP 10 2.6700 1.06 20.60 21.66 46.00 -24.34AVG W5 11 18.6585 12.19 20.24 32.43 60.00 -27.57QP 12 18.7665 0.03 20.24 20.27 50.00 -29.73AVG

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

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) W5 90.0 W5C 80 70 FCC Part15 CE-Class B_QP 60 FUC Part15 CE-Class B_AVe 50 40 10 30 20 AVG 10 0 -10 -20 -30

(MHz)

									_
5	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1 *	0.1770	35.90	20.71	56.61	64.63	-8.02	QP	Ī
	2	0.1770	17.56	20.71	38.27	54.63	-16.36	AVG	Ī
	3	0.2310	28.17	20.67	48.84	62.41	-13.57	QP	Ī
	4	0.2895	2.60	20.64	23.24	50.54	-27.30	AVG	Ī
/ -	5	0.2985	20.79	20.63	41.42	60.28	-18.86	QP	
2	6	0.3075	-0.38	20.63	20.25	50.04	-29.79	AVG	
	7	0.6225	13.44	20.53	33.97	56.00	-22.03	QP	
	8	0.8160	-0.72	20.59	19.87	46.00	-26.13	AVG	
	9	2.6475	0.66	20.60	21.26	46.00	-24.74	AVG	
	10	2.7150	13.55	20.60	34.15	56.00	-21.85	QP	
	11	18.5370	13.48	20.23	33.71	60.00	-26.29	QP	
5	12	19.7115	0.75	20.25	21.00	50.00	-29.00	AVG	

Note1:

Freq. = Emission frequency in MHz

0.150

Reading level (dBµV) = Receiver reading V5 [7]

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

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

0.500

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak 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 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	١
1	(MHz)	(micorvolts/meter)	(meters)	
	0.009~0.490	2400/F(KHz)	300	
	0.490~1.705	24000/F(KHz)	30	
ľ	1.705~30.0 W5 C	30 W5 FT	30	
	30~88	100	3	•
	88~216	150	3	
	216~960	W5 E 7200	W5 [1" 3 W5 [Į
	Above 960	500	3	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Limit (dBuV/m) (at 3M) FREQUENCY (MHz) **PEAK AVERAGE** W5 E 174 Above 1000 54

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	
1	Attenuation	5 CT W5 C Auto W5 CT	
	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 Ci
	band)		

	Receiver Parameter	Setting
1	Attenuation	SLI WS Auto WS LI
	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
_	W5 Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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7.3.1 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.

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- 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.

 Note:

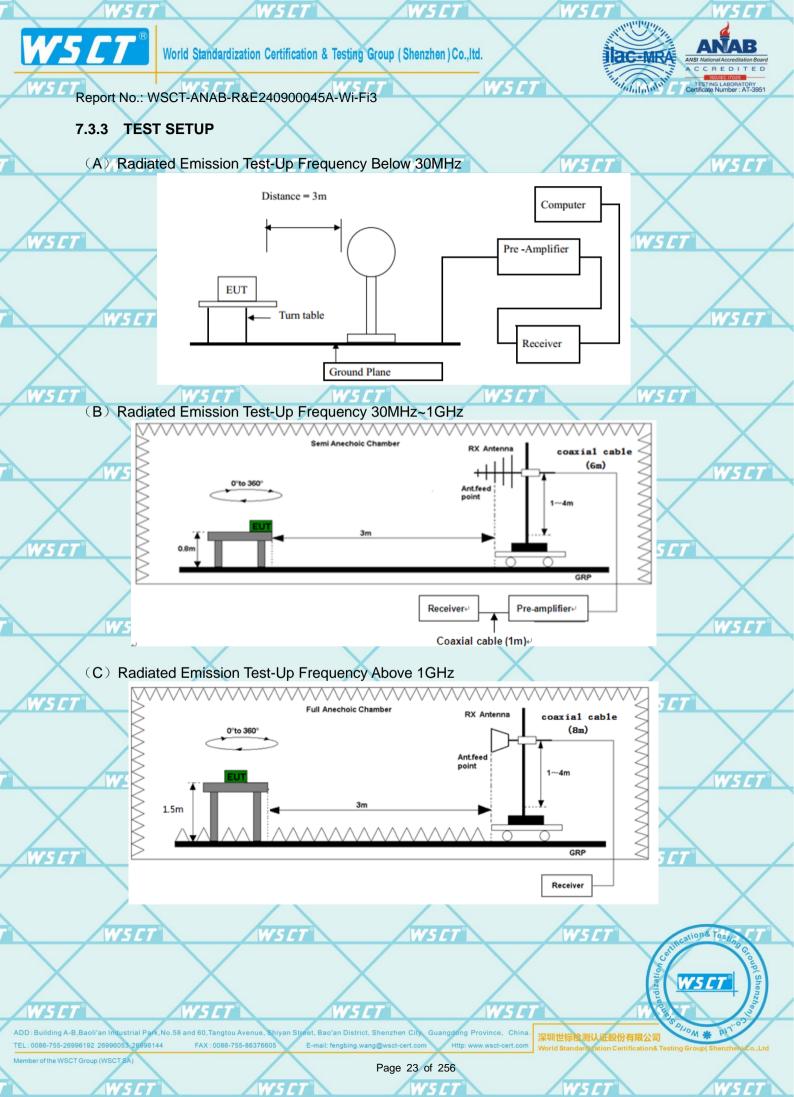
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

orthogor	nal axis. The worst case	e emissions were report	ted	X	X
	ATION FROM TEST S	TANDARD W5	7° W	5 CT°	W5 CT
No de	eviation W5 ET	WSET	W5 ET	WSCT	
WSET	WSCI	WSE		SET	WSCT
WSET	WSET	WSET	WSET	WSCT	
WSET	WSCI	WSI	T W	SET	WSCT
WSET	WSET	WSET	WSET	WSCT	
WSET	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\langle \hspace{0.1cm} \rangle$		X	one Testing Gio
X	X	X	X	.0	Group (Shenzh

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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.

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7.3.5 RESULTS (BELOW 30 MHZ)

. •					
	Freq.	Reading	Limit	Margin	State
\	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
		/ UPI		P14	P
	X	X	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

Por 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: 5 The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

W5LT	WSET	WSL	T W	5 <i>LT</i> W	SET
	WSCT	WSET	WSET	WSET	WSCT
WSCT	WSCI	WSL	T W	SET W	SET
	WSCT	WSET	WSET	WS ET	WSCT

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VS CT WS

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

.3.6 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

Please refer to following diagram for individual

Below 1GHz

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Horizontal:



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Frequency Reading Factor Limit Level Margin No. Detector (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 35.8118 43.75 QP 1 -19.4524.30 40.00 -15.702 -22.50QP 71.6747 42.45 19.95 40.00 -20.053 100.7130 47.69 -23.5924.10 43.50 -19.40QP 4 140.1577 48.66 -19.8928.77 43.50 -14.73QP 5 251.9523 55.41 -21.7233.69 46.00 -12.31QP 6 456.5057 QP 43.84 -16.3027.5446.00 -18.46

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

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WSCT WSCT WSCT WSCT

(MHz)

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1 *	36.3336	52.65	-19.44	33.21	40.00	-6.79	QP	
	2	71.9265	47.47	-22.57	24.90	40.00	-15.10	QP	
	3	81.1762	51.10	-24.07	27.03	40.00	-12.97	QP	
1	4	167.3834	42.61	-20.31	22.30	43.50	-21.20	QP	7
	5	253.5031	44.88	-21.65	23.23	46.00	-22.77	QP	
	6	476.3335	47.26	-15.97	31.29	46.00	-14.71	QP	

Note1:

-23 -33

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60.00

Freq. = Emission frequency in MHz Reading level (dBµV) = Receiver reading

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

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W5 CT

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7.3.7 TEST RESULTS (ABOVE 1GHZ)

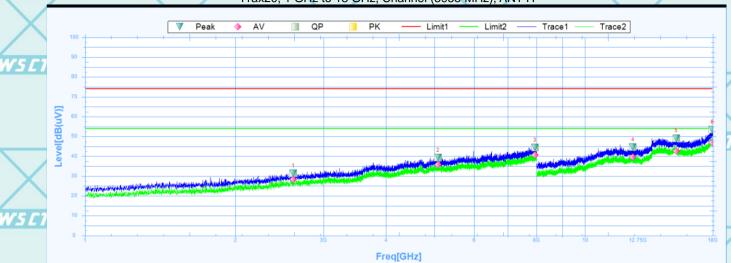
Note: 1.The spurious above 18G is noise only, do not show on the report.

2. Please ignore the main frequency signal

11ax20, 1 GHz to 18 GHz, Channel (5955 MHz), ANT H

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					S							
	Suspu	ted Data Lis	it									7
X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2609.1250	31.33	-8.18	39.51	74	-42.67	130.7	Horizontal	PK	Pass	
AWS CT	1	2609.1250	28.2	-8.18	36.38	54	-25.8	130.7	Horizontal	AV	Pass	
	2	5081.8750	39.31	0.22	39.09	74	-34.69	0.5	Horizontal	PK	Pass	
	2	5081.8750	35.78	0.22	35.56	54	-18.22	0.5	Horizontal	AV	Pass	
	3	7937.0000	44.42	8.11	36.31	74	-29.58	193	Horizontal	PK	Pass	
	3	7937.0000	40.75	8.11	32.64	54	-13.25	193	Horizontal	AV	Pass	7
	4	12465.0000	44.55	15.53	29.02	74	-29.45	9.8	Horizontal	PK	Pass	ŕ
	4	12465.0000	39.47	15.53	23.94	54	-14.53	9.8	Horizontal	AV	Pass	
	5	15213.7500	49.16	19.04	30.12	74	-24.84	49.8	Horizontal	PK	Pass	
Augus	5	15213.7500	42.6	19.04	23.56	54	-11.4	49.8	Horizontal	AV	Pass	
∠W5C1	6	17968.7500	53.4	23.71	29.69	74	-20.6	272.2	Horizontal	PK	Pass	
	6	17968.7500	46.78	23.71	23.07	54	-7.22	272.2	Horizontal	AV	Pass	

	WSET	W5 ET	W5LT	W5ET	W5ET"
		X	X		
WSCT	WSET	W5 ET	WSET	WSLT	
					7

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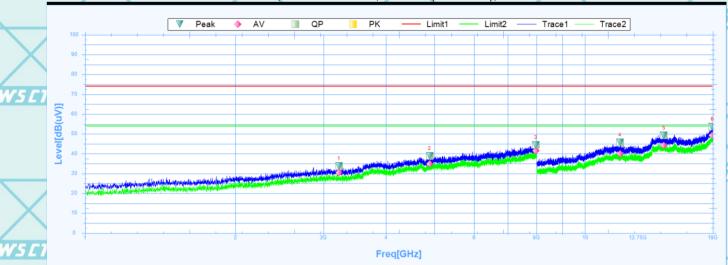




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									V		
	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
/	1	3218.1250	33.89	-6.26	40.15	74	-40.11	257.5	Vertical	PK	Pass
/	1	3218.1250	30.41	-6.26	36.67	54	-23.59	257.5	Vertical	AV	Pass
-	2	4887.6250	38.88	-0.13	39.01	74	-35.12	1.2	Vertical	PK	Pass
1	2	4887.6250	34.93	-0.13	35.06	54	-19.07	1.2	Vertical	AV	Pass
	3	7970.2500	44.41	8.18	36.23	74	-29.59	253.9	Vertical	PK	Pass
	3	7970.2500	41.46	8.18	33.28	54	-12.54	253.9	Vertical	AV	Pass
	4	11745.0000	45.74	15.54	30.2	74	-28.26	135.9	Vertical	PK	Pass
	4	11745.0000	39.99	15.54	24.45	54	-14.01	135.9	Vertical	AV	Pass
/	5	14377.5000	49.29	18.74	30.55	74	-24.71	135.9	Vertical	PK	Pass
	5	14377.5000	44.22	18.74	25.48	54	-9.78	135.9	Vertical	AV	Pass
1	6	17970.0000	53.64	23.72	29.92	74	-20.36	52.2	Vertical	PK	Pass
	6	17970.0000	49.24	23.72	25.52	54	-4.76	52.2	Vertical	AV	Pass

	W5 CT	W5 CT	W5 ET	W5ET"	W5 ET
	X		X /	X	
WSET	W5 C	7 W5	ET W	SCT	WSCT

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

深圳世标检测认证股份有限公司

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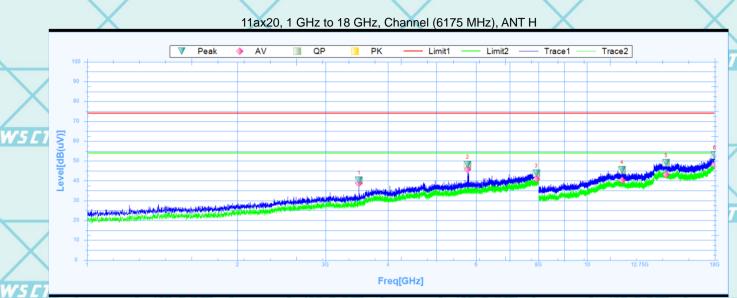






Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

W5CT



	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	3499.0000	40.17	-5.24	45.41	74	-33.83	360.1	Horizontal	PK	Pass
/	1	3499.0000	38.57	-5.24	43.81	54	-15.43	360.1	Horizontal	AV	Pass
/	2	5772.2500	48.17	2.06	46.11	74	-25.83	153.5	Horizontal	PK	Pass
<u> </u>	2	5772.2500	45.7	2.06	43.64	54	-8.3	153.5	Horizontal	AV	Pass
51	3	7919.5000	43.82	8.07	35.75	74	-30.18	120.1	Horizontal	PK	Pass
	3	7919.5000	40.98	8.07	32.91	54	-13.02	120.1	Horizontal	AV	Pass
	4	11745.0000	45.52	15.54	29.98	74	-28.48	314.1	Horizontal	PK	Pass
	4	11745.0000	40.19	15.54	24.65	54	-13.81	314.1	Horizontal	AV	Pass
	5	14391.2500	48.98	18.73	30.25	74	-25.02	359.6	Horizontal	PK	Pass
1	5	14391.2500	43.1	18.73	24.37	54	-10.9	359.6	Horizontal	AV	Pass
	6	17996.2500	52.86	23.9	28.96	74	-21.14	359.4	Horizontal	PK	Pass
	6	17996.2500	47.93	23.9	24.03	54	-6.07	359.4	Horizontal	AV	Pass

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ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

深圳世标检测认证股份有限公司

W5 CT

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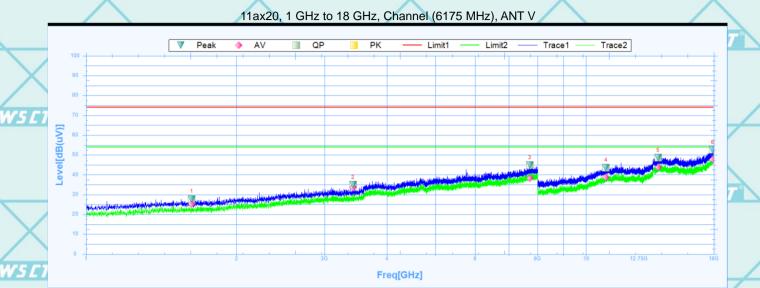






Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

W5CT"



	Suspu	uted Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1625.6250	27.72	-13.21	40.93	74	-46.28	360.1	Vertical	PK	Pass
\	1	1625.6250	25.29	-13.21	38.5	54	-28.71	360.1	Vertical	AV	Pass
_	2	3419.3750	35	-5.73	40.73	74	-39	1.1	Vertical	PK	Pass
Z	2	3419.3750	33.52	-5.73	39.25	54	-20.48	1.1	Vertical	AV	Pass
	3	7720.0000	44.85	7.61	37.24	74	-29.15	344.7	Vertical	PK	Pass
	3	7720.0000	38.31	7.61	30.7	54	-15.69	344.7	Vertical	AV	Pass
	4	10961.2500	43.63	14.97	28.66	74	-30.37	108.5	Vertical	PK	Pass
	4	10961.2500	38.69	14.97	23.72	54	-15.31	108.5	Vertical	AV	Pass
	5	13930.0000	48.67	18.92	29.75	74	-25.33	211.3	Vertical	PK	Pass
	5	13930.0000	43.68	18.92	24.76	54	-10.32	211.3	Vertical	AV	Pass
1	6	17921.2500	52.64	23.39	29.25	74	-21.36	208.8	Vertical	PK	Pass
4	6	17921.2500	47.69	23.39	24.3	54	-6.31	208.8	Vertical	AV	Pass

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a. 深圳世标检测认证股份有限公司
World Standard ation Certification& Testing Group(Shenzhen) Co.,Lt

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

World Standardization Certification& Testing Group



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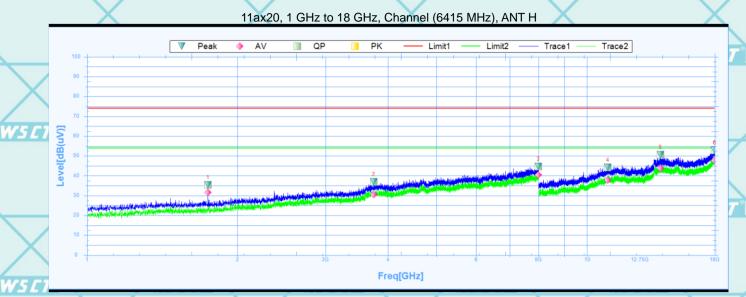
World Standardization Certification & Testing Group (Shenzhen) Co., ltd.





Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	1744.6250	35.28	-12.78	48.06	74	-38.72	240.8	Horizontal	PK	Pass	_
/	1	1744.6250	31.61	-12.78	44.39	54	-22.39	240.8	Horizontal	AV	Pass	
\	2	3744.8750	36.98	-3.57	40.55	74	-37.02	154.7	Horizontal	PK	Pass	
_	2	3744.8750	30.47	-3.57	34.04	54	-23.53	154.7	Horizontal	AV	Pass	
7	3	7986.8750	44.54	8.2	36.34	74	-29.46	250.3	Horizontal	PK	Pass	
	3	7986.8750	40.45	8.2	32.25	54	-13.55	250.3	Horizontal	AV	Pass	1
	4	11001.2500	44.09	15.12	28.97	74	-29.91	359.5	Horizontal	PK	Pass	
	4	11001.2500	37.68	15.12	22.56	54	-16.32	359.5	Horizontal	AV	Pass	
	5	14017.5000	50.53	19.11	31.42	74	-23.47	183.8	Horizontal	PK	Pass	7
	5	14017.5000	43.68	19.11	24.57	54	-10.32	183.8	Horizontal	AV	Pass	
	6	17986.2500	52.73	23.83	28.9	74	-21.27	-0.1	Horizontal	PK	Pass	
1	6	17986.2500	47.81	23.83	23.98	54	-6.19	-0.1	Horizontal	AV	Pass	

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ADD: 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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World Standard Zation Certification & Testing Group (Shenzhen) Co., Ltd.

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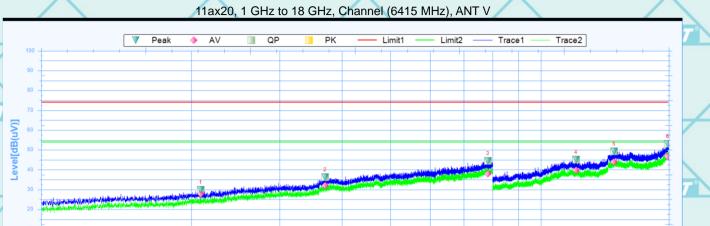
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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	2085.0000	29.86	-10.78	40.64	74	-44.14	25.7	Vertical	PK	Pass
1	2085.0000	27.92	-10.78	38.7	54	-26.08	25.7	Vertical	AV	Pass
2	3699.3750	36.29	-3.8	40.09	74	-37.71	209.7	Vertical	PK	Pass
2	3699.3750	32.05	-3.8	35.85	54	-21.95	209.7	Vertical	AV	Pass
3	7827.6250	44.38	7.89	36.49	74	-29.62	84.2	Vertical	PK	Pass
3	7827.6250	38.1	7.89	30.21	54	-15.9	84.2	Vertical	AV	Pass
4	11745.0000	45.09	15.54	29.55	74	-28.91	136.2	Vertical	PK	Pass
4	11745.0000	39.74	15.54	24.2	54	-14.26	136.2	Vertical	AV	Pass
5	13992.5000	49.19	19.1	30.09	74	-24.81	74	Vertical	PK	Pass
5	13992.5000	43.93	19.1	24.83	54	-10.07	74	Vertical	AV	Pass
6	17905.0000	52.97	23.29	29.68	74	-21.03	266.4	Vertical	PK	Pass
6	17905.0000	46.68	23.29	23.39	54	-7.32	266.4	Vertical	AV	Pass

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> W5 CT WS ET W5 CT

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

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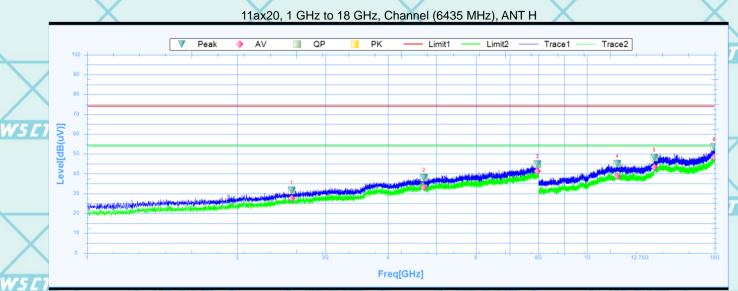
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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	2566.2500	31.57	-8.28	39.85	74	-42.43	54.3	Horizontal	PK	Pass	_
/	1	2566.2500	27.69	-8.28	35.97	54	-26.31	54.3	Horizontal	AV	Pass	
/	2	4720.5000	37.92	-0.71	38.63	74	-36.08	292.2	Horizontal	PK	Pass	
	2	4720.5000	33.14	-0.71	33.85	54	-20.86	292.2	Horizontal	AV	Pass	
	3	7956.2500	44.85	8.14	36.71	74	-29.15	356.5	Horizontal	PK	Pass	
	3	7956.2500	41.35	8.14	33.21	54	-12.65	356.5	Horizontal	AV	Pass	
	4	11500.0000	45.01	15.75	29.26	74	-28.99	145.6	Horizontal	PK	Pass	
	4	11500.0000	38.61	15.75	22.86	54	-15.39	145.6	Horizontal	AV	Pass	
	5	13623.7500	48.21	18.04	30.17	74	-25.79	41.6	Horizontal	PK	Pass	
7	5	13623.7500	43.31	18.04	25.27	54	-10.69	41.6	Horizontal	AV	Pass	
	6	17957.5000	53.41	23.63	29.78	74	-20.59	4.2	Horizontal	PK	Pass	
1	6	17957.5000	48.44	23.63	24.81	54	-5.56	4.2	Horizontal	AV	Pass	

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ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue,

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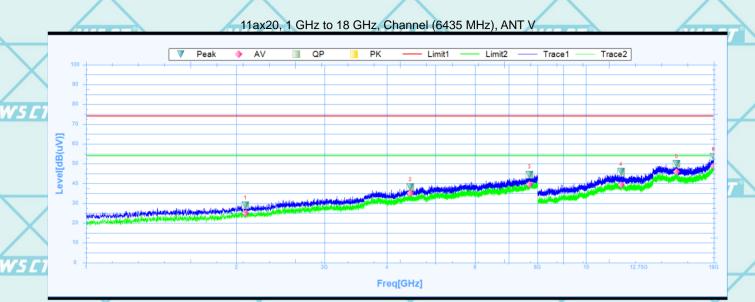






Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	7
	1	2080.6250	28.95	-10.8	39.75	74	-45.05	360.1	Vertical	PK	Pass	
	1	2080.6250	25.02	-10.8	35.82	54	-28.98	360.1	Vertical	AV	Pass	
WS CT	2	4453.6250	38.15	-1.82	39.97	74	-35.85	146.4	Vertical	PK	Pass	
	2	4453.6250	35.04	-1.82	36.86	54	-18.96	146.4	Vertical	AV	Pass	
	3	7706.8750	44.51	7.57	36.94	74	-29.49	79.4	Vertical	PK	Pass	
	3	7706.8750	39.54	7.57	31.97	54	-14.46	79.4	Vertical	AV	Pass	
	4	11745.0000	45.87	15.54	30.33	74	-28.13	304.6	Vertical	PK	Pass	7
	4	11745.0000	39.36	15.54	23.82	54	-14.64	304.6	Vertical	AV	Pass	
X	5	15175.0000	49.9	19.34	30.56	74	-24.1	237.6	Vertical	PK	Pass	
	5	15175.0000	45.95	19.34	26.61	54	-8.05	237.6	Vertical	AV	Pass	
WS C1	6	17982.5000	53.51	23.8	29.71	74	-20.49	352	Vertical	PK	Pass	
LE L T	6	17982.5000	48.87	23.8	25.07	54	-5.13	352	Vertical	AV	Pass	

	W5 CT	W5 CT"	WS ET*	W5 CT	W5 CT
	X	X	X	X	X
1	WSET	W5 CT	WSET	WSET	WSET
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DD: Building A-B,Baoll'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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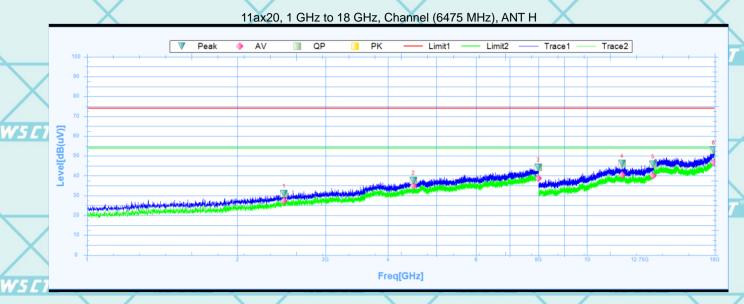
World Standardization Certification & Testing Group (Shenzhen) Co., ltd.





Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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	Suspu	ited Data Lis	it									Г
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2477.0000	30.87	-8.64	39.51	74	-43.13	279	Horizontal	PK	Pass	ľ
	1	2477.0000	27.38	-8.64	36.02	54	-26.62	279	Horizontal	AV	Pass	
\	2	4493.8750	37.53	-1.77	39.3	74	-36.47	360.1	Horizontal	PK	Pass	
_	2	4493.8750	34.88	-1.77	36.65	54	-19.12	360.1	Horizontal	AV	Pass	
51	3	7986.8750	44.17	8.2	35.97	74	-29.83	258.8	Horizontal	PK	Pass	
	3	7986.8750	38.73	8.2	30.53	54	-15.27	258.8	Horizontal	AV	Pass	
	4	11745.0000	46.11	15.54	30.57	74	-27.89	3.5	Horizontal	PK	Pass	
	4	11745.0000	40.49	15.54	24.95	54	-13.51	3.5	Horizontal	AV	Pass	
	5	13546.2500	45.7	17.81	27.89	74	-28.3	157.4	Horizontal	PK	Pass	7
/	5	13546.2500	39.99	17.81	22.18	54	-14.01	157.4	Horizontal	AV	Pass	
	6	17901.2500	52.89	23.27	29.62	74	-21.11	262.6	Horizontal	PK	Pass	
1	6	17901.2500	46.57	23.27	23.3	54	-7.43	262.6	Horizontal	AV	Pass	

WSET WSET WSET WSET WSET

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ADD: Building A-B, Baoll'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin.

深圳世标检测认证股份有限公司 ** **

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EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-ce

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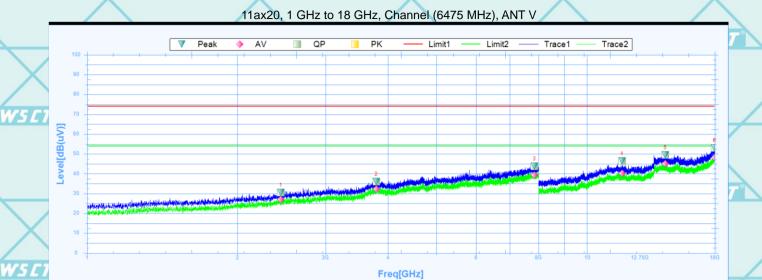






Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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	Suspu	ted Data Lis	t									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	7
	1	2439.3750	30.51	-8.88	39.39	74	-43.49	360	Vertical	PK	Pass	
	1	2439.3750	27.03	-8.88	35.91	54	-26.97	360	Vertical	AV	Pass	
West.	2	3790.3750	36.01	-3.62	39.63	74	-37.99	60.2	Vertical	PK	Pass	
W5C1	2	3790.3750	32.19	-3.62	35.81	54	-21.81	60.2	Vertical	AV	Pass	
	3	7851.2500	43.83	7.94	35.89	74	-30.17	247.9	Vertical	PK	Pass	
	3	7851.2500	39.34	7.94	31.4	54	-14.66	247.9	Vertical	AV	Pass	
	4	11745.0000	46.43	15.54	30.89	74	-27.57	112	Vertical	PK	Pass	
	4	11745.0000	40.17	15.54	24.63	54	-13.83	112	Vertical	AV	Pass	7
\	5	14336.2500	49.53	18.78	30.75	74	-24.47	359.6	Vertical	PK	Pass	
X	5	14336.2500	45.11	18.78	26.33	54	-8.89	359.6	Vertical	AV	Pass	
	6	17986.2500	53.02	23.83	29.19	74	-20.98	-0.1	Vertical	PK	Pass	
W5C1	6	17986.2500	48.2	23.83	24.37	54	-5.8	-0.1	Vertical	AV	Pass	

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ADD: Building A-B,Baoil'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chir TEL: 0086-755-26996192 26998053, 28996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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World Standard Zation Certification& Testing Group(Shenzhen) Co.,Ltd

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W5CT

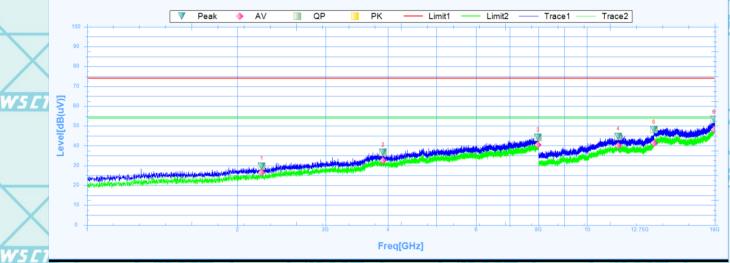




Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	2235.5000	29.71	-10.09	39.8	74	-44.29	355.9	Horizontal	PK	Pass
	1	2235.5000	26.61	-10.09	36.7	54	-27.39	355.9	Horizontal	AV	Pass
	2	3909.3750	36.58	-3.76	40.34	74	-37.42	334.1	Horizontal	PK	Pass
_	2	3909.3750	32.56	-3.76	36.32	54	-21.44	334.1	Horizontal	AV	Pass
L	3	7979.0000	44.16	8.19	35.97	74	-29.84	210.9	Horizontal	PK	Pass
	3	7979.0000	40.39	8.19	32.2	54	-13.61	210.9	Horizontal	AV	Pass
	4	11542.5000	44.73	15.71	29.02	74	-29.27	0	Horizontal	PK	Pass
	4	11542.5000	40	15.71	24.29	54	-14	0	Horizontal	AV	Pass
	5	13601.2500	48.09	17.97	30.12	74	-25.91	228.1	Horizontal	PK	Pass
	5	13601.2500	41.32	17.97	23.35	54	-12.68	228.1	Horizontal	AV	Pass
	6	17942.5000	53.23	23.52	29.71	74	-20.77	47.5	Horizontal	PK	Pass
	6	17942.5000	48.09	23.52	24.57	54	-5.91	47.5	Horizontal	AV	Pass

WS CI W5 C

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ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue,

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W5CT

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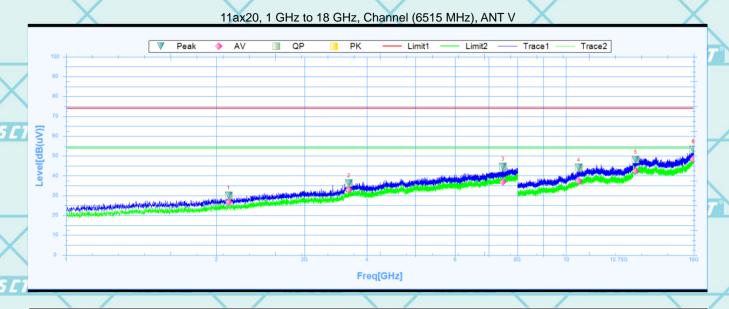






Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	2113.8750	29.96	-10.7	40.66	74	-44.04	207.3	Vertical	PK	Pass
1	2113.8750	26.66	-10.7	37.36	54	-27.34	207.3	Vertical	AV	Pass
2	3679.2500	36.22	-3.94	40.16	74	-37.78	224	Vertical	PK	Pass
2	3679.2500	32.98	-3.94	36.92	54	-21.02	224	Vertical	AV	Pass
3	7481.1250	44.54	6.76	37.78	74	-29.46	360	Vertical	PK	Pass
3	7481.1250	36.98	6.76	30.22	54	-17.02	360	Vertical	AV	Pass
4	10603.7500	44.15	13.76	30.39	74	-29.85	97.8	Vertical	PK	Pass
4	10603.7500	37.35	13.76	23.59	54	-16.65	97.8	Vertical	AV	Pass
5	13776.2500	48.08	18.48	29.6	74	-25.92	0	Vertical	PK	Pass
5	13776.2500	42.35	18.48	23.87	54	-11.65	0	Vertical	AV	Pass
6	17970.0000	53.35	23.72	29.63	74	-20.65	29.6	Vertical	PK	Pass
6	17970.0000	48.33	23.72	24.61	54	-5.67	29.6	Vertical	AV	Pass
	NO. 1 1 2 2 3 3 4 4 5 5 6	NO. Freq. [MHz] 1 2113.8750 1 2113.8750 2 3679.2500 2 3679.2500 3 7481.1250 3 7481.1250 4 10603.7500 4 10603.7500 5 13776.2500 5 13776.2500 6 17970.0000	NO. [MHz] [dB(uV)] 1 2113.8750 29.96 1 2113.8750 26.66 2 3679.2500 36.22 2 3679.2500 32.98 3 7481.1250 44.54 3 7481.1250 36.98 4 10603.7500 44.15 4 10603.7500 37.35 5 13776.2500 48.08 5 13776.2500 42.35 6 17970.0000 53.35	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] 1 2113.8750 29.96 -10.7 1 2113.8750 26.66 -10.7 2 3679.2500 36.22 -3.94 2 3679.2500 32.98 -3.94 3 7481.1250 44.54 6.76 3 7481.1250 36.98 6.76 4 10603.7500 44.15 13.76 4 10603.7500 37.35 13.76 5 13776.2500 48.08 18.48 5 13776.2500 42.35 18.48 6 17970.0000 53.35 23.72	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] 1 2113.8750 29.96 -10.7 40.66 1 2113.8750 26.66 -10.7 37.36 2 3679.2500 36.22 -3.94 40.16 2 3679.2500 32.98 -3.94 36.92 3 7481.1250 44.54 6.76 37.78 3 7481.1250 36.98 6.76 30.22 4 10603.7500 44.15 13.76 30.39 4 10603.7500 37.35 13.76 23.59 5 13776.2500 48.08 18.48 29.6 5 13776.2500 42.35 18.48 23.87 6 17970.0000 53.35 23.72 29.63	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] 1 2113.8750 29.96 -10.7 40.66 74 1 2113.8750 26.66 -10.7 37.36 54 2 3679.2500 36.22 -3.94 40.16 74 2 3679.2500 32.98 -3.94 36.92 54 3 7481.1250 44.54 6.76 37.78 74 3 7481.1250 36.98 6.76 30.22 54 4 10603.7500 44.15 13.76 30.39 74 4 10603.7500 37.35 13.76 23.59 54 5 13776.2500 48.08 18.48 29.6 74 5 13776.2500 42.35 18.48 23.87 54 6 17970.0000 53.35 23.72 29.63 74	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] 1 2113.8750 29.96 -10.7 40.66 74 -44.04 1 2113.8750 26.66 -10.7 37.36 54 -27.34 2 3679.2500 36.22 -3.94 40.16 74 -37.78 2 3679.2500 32.98 -3.94 36.92 54 -21.02 3 7481.1250 44.54 6.76 37.78 74 -29.46 3 7481.1250 36.98 6.76 30.22 54 -17.02 4 10603.7500 44.15 13.76 30.39 74 -29.85 4 10603.7500 37.35 13.76 23.59 54 -16.65 5 13776.2500 48.08 18.48 29.6 74 -25.92 5 13776.2500 42.35 18.48 23.87 54 -11.65 6 17	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] 1 2113.8750 29.96 -10.7 40.66 74 -44.04 207.3 1 2113.8750 26.66 -10.7 37.36 54 -27.34 207.3 2 3679.2500 36.22 -3.94 40.16 74 -37.78 224 2 3679.2500 32.98 -3.94 36.92 54 -21.02 224 3 7481.1250 44.54 6.76 37.78 74 -29.46 360 3 7481.1250 36.98 6.76 30.22 54 -17.02 360 4 10603.7500 44.15 13.76 30.39 74 -29.85 97.8 5 13776.2500 48.08 18.48 29.6 74 -25.92 0 5 13776.2500 42.35 18.48 23.87 54 -11.65 0 <t< td=""><td>NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity 1 2113.8750 29.96 -10.7 40.66 74 -44.04 207.3 Vertical 1 2113.8750 26.66 -10.7 37.36 54 -27.34 207.3 Vertical 2 3679.2500 36.22 -3.94 40.16 74 -37.78 224 Vertical 2 3679.2500 32.98 -3.94 36.92 54 -21.02 224 Vertical 3 7481.1250 44.54 6.76 37.78 74 -29.46 360 Vertical 3 7481.1250 36.98 6.76 30.22 54 -17.02 360 Vertical 4 10603.7500 44.15 13.76 30.39 74 -29.85 97.8 Vertical 5 13776.2500 48.08 18.48 29.6 74 -25.92 0</td><td>NO. Freq. [MHz] Reading [dB](uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity Trace 1 2113.8750 29.96 -10.7 40.66 74 -44.04 207.3 Vertical PK 1 2113.8750 26.66 -10.7 37.36 54 -27.34 207.3 Vertical AV 2 3679.2500 36.22 -3.94 40.16 74 -37.78 224 Vertical PK 2 3679.2500 32.98 -3.94 36.92 54 -21.02 224 Vertical PK 3 7481.1250 44.54 6.76 37.78 74 -29.46 360 Vertical PK 3 7481.1250 36.98 6.76 30.22 54 -17.02 360 Vertical PK 4 10603.7500 44.15 13.76 30.39 74 -29.85 97.8 Vertical PK 5</td></t<>	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity 1 2113.8750 29.96 -10.7 40.66 74 -44.04 207.3 Vertical 1 2113.8750 26.66 -10.7 37.36 54 -27.34 207.3 Vertical 2 3679.2500 36.22 -3.94 40.16 74 -37.78 224 Vertical 2 3679.2500 32.98 -3.94 36.92 54 -21.02 224 Vertical 3 7481.1250 44.54 6.76 37.78 74 -29.46 360 Vertical 3 7481.1250 36.98 6.76 30.22 54 -17.02 360 Vertical 4 10603.7500 44.15 13.76 30.39 74 -29.85 97.8 Vertical 5 13776.2500 48.08 18.48 29.6 74 -25.92 0	NO. Freq. [MHz] Reading [dB](uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity Trace 1 2113.8750 29.96 -10.7 40.66 74 -44.04 207.3 Vertical PK 1 2113.8750 26.66 -10.7 37.36 54 -27.34 207.3 Vertical AV 2 3679.2500 36.22 -3.94 40.16 74 -37.78 224 Vertical PK 2 3679.2500 32.98 -3.94 36.92 54 -21.02 224 Vertical PK 3 7481.1250 44.54 6.76 37.78 74 -29.46 360 Vertical PK 3 7481.1250 36.98 6.76 30.22 54 -17.02 360 Vertical PK 4 10603.7500 44.15 13.76 30.39 74 -29.85 97.8 Vertical PK 5

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W5 CT WS ET W5 C1 W5 C1

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

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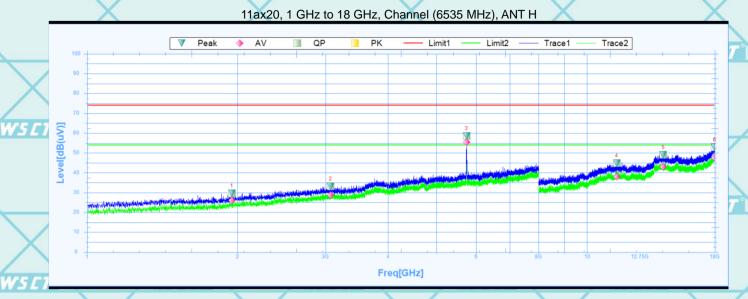
W5CT





Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

W5CT



	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	1946.7500	29.55	-11.58	41.13	74	-44.45	158.3	Horizontal	PK	Pass	ľ
/	1	1946.7500	26.13	-11.58	37.71	54	-27.87	158.3	Horizontal	AV	Pass	
\	2	3069.3750	33.15	-6.24	39.39	74	-40.85	129.6	Horizontal	PK	Pass	
_	2	3069.3750	28.65	-6.24	34.89	54	-25.35	129.6	Horizontal	AV	Pass	
5	3	5741.6250	58.47	1.96	56.51	74	-15.53	360.1	Horizontal	PK	Pass	
	3	5741.6250	55.46	1.96	53.5	54	1.46	360.1	Horizontal	AV	Fail	
	4	11461.2500	44.9	15.77	29.13	74	-29.1	43.9	Horizontal	PK	Pass	
	4	11461.2500	37.94	15.77	22.17	54	-16.06	43.9	Horizontal	AV	Pass	
	5	14206.2500	49.09	18.91	30.18	74	-24.91	236.4	Horizontal	PK	Pass	7
	5	14206.2500	43.19	18.91	24.28	54	-10.81	236.4	Horizontal	AV	Pass	
	6	17993.7500	52.79	23.89	28.9	74	-21.21	358.9	Horizontal	PK	Pass	
1	6	17993.7500	47.44	23.89	23.55	54	-6.56	358.9	Horizontal	AV	Pass	

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ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chir

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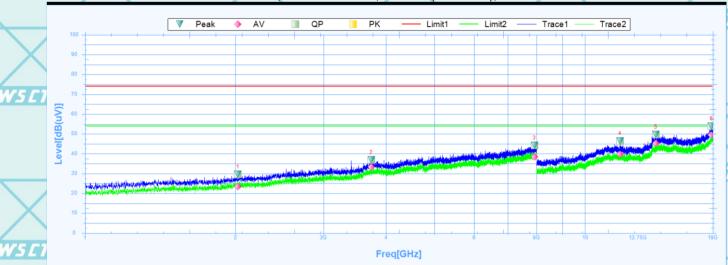




Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi3

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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	2020.2500	29.6	-11.08	40.68	74	-44.4	0.4	Vertical	PK	Pass
\	1	2020.2500	23.37	-11.08	34.45	54	-30.63	0.4	Vertical	AV	Pass
_	2	3735.2500	36.82	-3.57	40.39	74	-37.18	287.4	Vertical	PK	Pass
L	2	3735.2500	33.32	-3.57	36.89	54	-20.68	287.4	Vertical	AV	Pass
	3	7918.6250	44.26	8.07	36.19	74	-29.74	263.5	Vertical	PK	Pass
	3	7918.6250	38.51	8.07	30.44	54	-15.49	263.5	Vertical	AV	Pass
	4	11745.0000	46.51	15.54	30.97	74	-27.49	222	Vertical	PK	Pass
	4	11745.0000	39.76	15.54	24.22	54	-14.24	222	Vertical	AV	Pass
/	5	13847.5000	49.71	18.68	31.03	74	-24.29	39.1	Vertical	PK	Pass
	5	13847.5000	45.27	18.68	26.59	54	-8.73	39.1	Vertical	AV	Pass
1	6	17892.5000	53.84	23.21	30.63	74	-20.16	-0.1	Vertical	PK	Pass
Ţ	6	17892.5000	49.6	23.21	26.39	54	-4.4	-0.1	Vertical	AV	Pass

	WS CT°	W5 CT	WSET	W5ET	NS ET
WSCT	WSET	WSET	W5 CT	WSET	

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ADD: Building A-B,Baoil'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chir

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