





WSET

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WS TEST REPORT

W5CT"

W5 C1

W5CT

FCC ID: 2ADYY-K16SAA

Product: Laptop Computer 77

WSET

Model No.: K16SAA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

4W5ET

Issued Date: 12 August 2024

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Issued for:

W5ET

W5 CT

TECNO MOBILE LIMITED

W5 CT

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

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Issued By:

W5 [7] World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

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Page 1 of 303

WSIT

WSET







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

W5CT°

7							
	W5 CT°	WSET		WSET	W5 CT°	W5ET*	
	X	\times	TABLE OF	CONTENTS		\times	
W5		WSET	WSCT	W5ET°		SET°	
	2 EUT DES	RTIFICATION				3	
	3 TEST DES					5	
		ASUREMENT UNCER		WSET	W5 CT	5 WSET	
		ST ENVIRONMENT AI BLE OF PARAMETER		FTWARE SETTING		6	
	3.4 CC	INFIGURATION OF SY	STEM UNDER	RTEST	,	8	
WS	3.5 DE	SCRIPTION OF SUPP	ORT UNITS (C	CONDUCTED MODE	V VV	8 9 <i>LT</i>	
	4 SUMMAR 5 MFASURI	Y OF TEST RESULT	TS			10	
		S AND ACCREDITA		X		11 X	
		CILITIES				11	
		CREDITATIONS CONTROL OF THE SUITS AND MEASU		WSET*	W5CT [®]	11 W5 [7] 12	
	7.1 CC	NDUCTED EMISSION	MEASUREME	ENT		12	
	7.2 RA 7.3 AN	ADIATED EMISSION M	EASUREMENT			16 38	
W5	7.4 EN	ITENNA REQUIREMENTS ISSION BANDWIDTH	WSCT	W5 CT	W	40	_
		ERAGE POWER				79	
		OWER SPECTRAL DEI				150 221	
	7.85 / BA	AND EDGE EMISSIONS	3	WSET		257 WSCT	
	7.9 DY	NAMIC FREQUENCY	SELECTION (DFS)		293	
/		X	X	X		X	
W5	CT°	WSET	WSCT	WSET	\w	SET	
	X	X		X	X	X	
	11/2 57	Week		777	W.C.C.	WEET	
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	<	X	\times	\times		X	
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Page 2 /303

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Page 3 /303

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

Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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EUT Description

	WSIT	CT WSCT WSCT WS	ET
7	Product:	Laptop Computer	
	Model No.:	K16SAA	
	Trade Mark: 517	TECNO ^{SET} WSET WSET	
	\times	Band 1: 5180-5240 MHz	\times
	Onevetion Francisco	Band 2: 5260-5320 MHz	
_/	Operation Frequency:	Band 3: 5500-5700 MHz W5 [7]	ET
		Band 4: 5745-5825 MHz	
	Modulation type:	IEEE 802.11a/n/ac/ax: OFDM/OFDMA	
	modulation type:	(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)	
	Antenna Type:	Integral Antenna	
	Antenna Gain	MAIN:2.02dBi ,AUX:2.14 dBi	X
	WS CT WS	Adapter1: E065-1R200325VU	E C T°
/		INPUT: 100-240V~50/60HZ, 1.5A	7-7-8-
	\times	OUTPUT:20.0V==3.25A	
	Operating Voltage:	Rechargeable Li-ion Polymer Battery: K16S Nominal Voltage: 11.55V	
	WSET	Rated Capacity: 6060mAh W5 [7]	
		Rated nergy:70.00Wh	
	\times	Limited Charge Voltage: 13.2V	X
	Remark:	N/A. WSCT WSCT	7.47

Confin	urotion	differences	
COLLING	uralion	differences	

0 " " /			ľ
Configuration/	Comoro	X	
Processor	Camera		
K16SAA (i5)	1M(Shengtai)	WSE	/
K16SAA (i7)	1M(Visual Era)		

Note: The prototypes of both configurations have been tested, and the K16SAA (i7) has the worst test result, which is the main test model reported

W5 C1

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W5CT

Page 4 /303



W5 CI

W5 C7



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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 $\mathbf{95}$ % $^{\circ}$

W5 E

	No.	Item	Uncertainty	
W5	1	Conducted Emission Test W5/	±3.2dB	W5 ET
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
WSET	4 W	All emissions, radiated(<1GHz)	±4.7dB 5	WSCT
	5	All emissions, radiated(>1GHz)	±4.7dB	
	6	Temperature	±0.5°C	X
WS	7	Humidity s r w 5	±2% wsrr	WSCT
W5 CT	/W	SET WSET	WSCT	W5 CT
			X	

W5ET°	W5 CT	W/W	SET W	SCT" WSCT"

_	W5CT°	W5 L	7°	W5 CT	W5 CT	W5 CT

W5 CT°	W5 CT"	W5 CT	W5 CT	W5 CT
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/	W5 CT	WSCT	WSCT	WSCT	WSIT

W5 CT	W5 CT°	WS CT°	WSET	scation& Testin
			Y	S. C.

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Page 5 /303

WSF

WSET







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

3.2 TEST ENVIRONMENT AND MODE

/	Operating Environment:	
	Temperature:	25.0 °C
	Humidity:	56 % RH
	Atmospheric Pressure: W5 57	1010 mbar 15 [7] W5 [7]

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle 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	M
	Mode 1	802.11a	
	Mode 2	802.11n20	
/	W5 Mode 3	W5 ET 802.11n40 W5 ET	
	Mode 4	802.11ac20	
	Mode 5	802.11ac40	/
	Mode 6 5 <i>LT</i> °	W5 ET 802.11ac80 W5 ET	И
	Mode 7	802.11ax20	
	Mode 8	802.11ax40	
1	W5 / Mode 9	W5 [T] 802.11ax80 W5 [T]	
	Mode 10	802.11ax160	

Note:

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- (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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Page 6 /303

W5CT

Note:

W5 CT



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

	W51		W	SCT		VSET		W5CT [®]		WSCT
	Test					DRTU				
X	program									
5 C	Mode	WS	CT°		Test I	Frequency	(MHz)		WSET	
	Mode	/			NCB: 20	MHz				
	802.11a	5180	5240	5260	5320	5500	5700	5745	5825	X
	002.11a	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
	802.11n	5180	5240	5260	5320	5500	5700	5745	5825	WEET
	002.111	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	W5 CT
	802.11ac	5180	5240	5260	5320	5500	5700	5745	5825	
X	002.11ac	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
	802.11ax	5180	5240	5260 /	5320	5500	5700	5745	5825	
5 C	602.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
		/			NCB: 4	0MHz				
	X	5190	5230	X5270	5310	5510	5670	5755	5795	X
	802.11n	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
	WE	5190	5230	5270	5310	5510	5670	5755	5795	W5 CT
	802.11ac	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	ZIFIA
		5190	5230	5270	5310	5510	5670	5755	5795	
Х	802.11ax	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
		/		4	NCB: 8	30MHz			4	
<u>5 L</u>		5210	5290	5530	5610	5775	WSLI	$\overline{}$	AWSLI	
	802.11ac	MHz	MHz	MHz	MHz	MHz		\ /		
	X	5210	5290	5530	5610	5775		X		X
	802.11ax	MHz	MHz	MHz	MHz	MHz				
	W5 L	7	W	ET	NCB: 1	60MHz		W5CT"		W5CT
	802.11ax	5250	5570							
X		MHz	MHz							

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

	W5 CT	WS CT"	WS CT"	WSET	W5 CT°
		/			
X	X		X	X	X
WSET	West		WEET	Welex	WEET
		7	W5 ET	WSCT	W5 CT
			\ /		

Page 7 /303

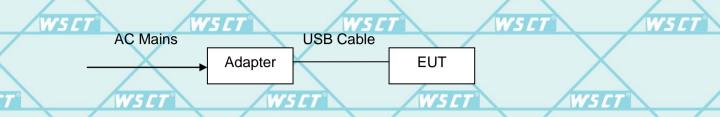




Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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3.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Laptop Computer)

3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

WS CI

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	W5 TECNO	E065-1R200325VU	WSCT	1
2	Router	ASUS	GT-AXE11000	M6LAJF201230	

Note:

15 CT

- 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)
- (4)The adapter supply by the applicant.

WSCT	WSET	WSET	WSCT	WSET	
WSI	$\langle \ \ \ \rangle$				WS ET
WSET	WSLT	WSET	WSCT	WSET	
×					$ egthinspace{1.5em} otag$

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Page 8 /303

WS ET

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

SUMMARY OF TEST RESULTS 4

Test procedures according to the technical standards:

W5E7

5 <i>C T</i>	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	1						
X	15.407(a)	Maximum Conducted Output Power	PASS	Complies							
5 <i>C 1</i>	15.407(a)	Power Spectral Density	PASS	Complies 5.67	0						
	15.407(b)	Unwanted Emissions	PASS	Complies							
	15.207 <i>5 [T</i>]	AC Conducted Emission W5 [7]	PASS W5	Complies	7						
X	15.407(g)	Frequency Stability	PASS	Complies							
5 <i>C 1</i>	15.407(c) W5 C	Automatically Discontinue Transmission	PASS	Complies 5 / 7	0						
	15.203 & 15.407(a)	X ' X		Complies							
	15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS W/5	Complies							

NOTE:

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

W5 C1 WS ET WS CT W5 E1

Page 9 /303

W5CT



WS ET

W5 C1

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2





MEASUREMENT INSTRUMENTS

	WSCT	WSCT	WSCT		V5 CT	W/5	l di
7	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
7°	Test software	/W	EZ-EMC	CON-03A	-/W.S	ET.	
	Test software	\ <u>-</u> /	MTS8310	-	V-	-	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
_	W5 LISN	AFJ	LS165 CT	16010222119	11/05/2023	11/04/2024	C I
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
7	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	
7	Spectrum Analyzer	R&S	FSU ⁵ ET	100114	11/05/2023	11/04/2024	<u>C</u> i
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
7	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	9*6*6 Anechoic	X	X	1	11/05/2023	11/04/2024	<
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	- /	11/05/2023	11/04/2024	L I
	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	
7 °	System-Controller	ccs	CT 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	
7	RF cable	Murata	MXHQ87WA300 0		11/05/2023	11/04/2024	<u>C1</u>
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
7	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	1
	Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	

W5 CI

Page 10 /303





Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

6 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

ANAB - Certificate Number: AT-3951

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

WSET

WEET

Page 11 /303

W5 ET WS ET



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

W5CT"

7 Test Results and Measurement Data

7.1 CONDUCTED EMISSION MEASUREMENT

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

)	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard	
Ĺ	FREQUENCT (MITZ)	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	1 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		WSCT
	Attenuation		10 dB		
	Start Frequency	X	0.15 MHz	X	
1	Stop Frequency		30 MHz		
Ţ	IF Bandwidth	WSET	W 5 C 9 kHz	WSCT	

	W5 CT	W5 CT	WSCT	W5CT [®]	W5CT [®]
WSE	WSC	WSC	WS	W.S	CT"
	WSET	WSET	WSET	WSET	WSET
WSE	$\langle \rangle$	$\langle \rangle$	$\langle \ \rangle$		ET*

AWSET |

WSCT

WSIT

WELT

WSET Solution Steam Control (Shenzhon)

WSCT

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Page 12 /303

WSCT

WSCT

WSCT







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

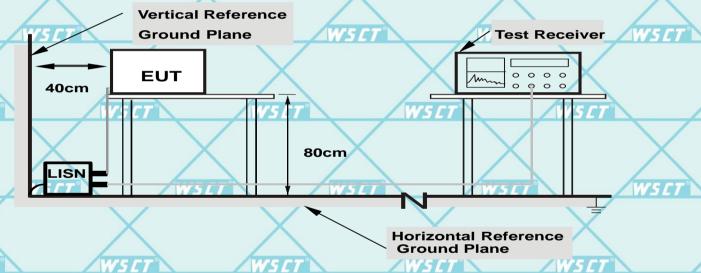
7.1.1 TEST PROCEDURE

- a The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected 14/5 / 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.

7.1.2 DEVIATION FROM TEST STANDARD

No deviation

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

7.1.3 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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Page 13 /303







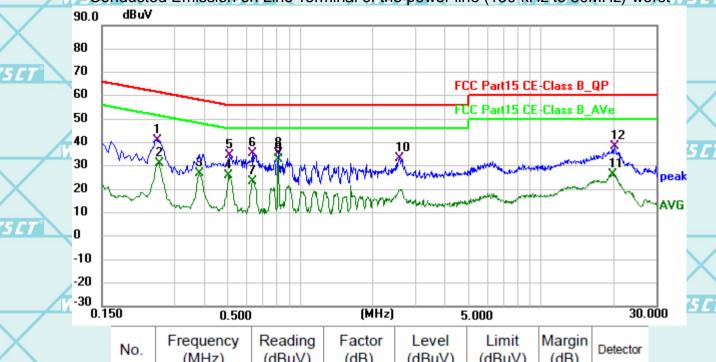
Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

TEST RESULTS(WORST CASE)

The worst mode is 11a

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst W5 [

WS CI



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
7°	1	0.2535	20.20	20.66	40.86	61.64	-20.78	QP	
	2	0.2580	10.27	20.66	30.93	51.50	-20.57	AVG	
	3	0.3795	6.09	20.58	26.67	48.29	-21.62	AVG	
WSCI	4	0.5055	5.33	20.51	25.84	46.00	-20.16	AVG	_
	5	0.5100	13.82	20.51	34.33	56.00	-21.67	QP	
	6	0.6315	14.70	20.53	35.23	56.00	-20.77	QP	
7	7	0.6315	2.93	20.53	23.46	46.00	-22.54	AVG	
	8	0.8115	14.85	20.59	35.44	56.00	-20.56	QP	
X	9 *	0.8115	12.05	20.59	32.64	46.00	-13.36	AVG	
WSEI	10	2.5935	12.62	20.60	33.22	56.00	-22.78	QP	
1	11	19.7610	5.92	20.26	26.18	50.00	-23.82	AVG	1
	12	20.2380	17.98	20.28	38.26	60.00	-21.74	QP	

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

Page 14 /303





Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

W5 C1

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) dBuV 90.0 5 C 1 80 70 FCC Part15 CE-Class B_QP 60 FCC Part15 CE-Class B_AVe 50 40 30 peak 20 -AVG 10 0 -10 -20 -30 30.000 0.150 (MHz) 0.500 5.000

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
	1	0.2535	21.10	20.66	41.76	61.64	-19.88	QP
	2	0.2580	9.95	20.66	30.61	51.50	-20.89	AVG
X	3	0.3795	5.30	20.58	25.88	48.29	-22.41	AVG
	4	0.5280	12.50	20.51	33.01	56.00	-22.99	QP
'5 C'	5	0.6450	15.72	20.53	36.25	56.00	-19.75	QP
	6	0.6450	4.30	20.53	24.83	46.00	-21.17	AVG
	7	0.7755	2.73	20.57	23.30	46.00	-22.70	AVG
	8	0.8115	14.63	20.59	35.22	56.00	-20.78	QP
	9 *	0.8115	12.10	20.59	32.69	46.00	-13.31	AVG
X	10	1.0410	12.25	20.67	32.92	56.00	-23.08	QP
75 E	11	1.6260	2.43	20.63	23.06	46.00	-22.94	AVG
	12	2.6115	13.65	20.60	34.25	56.00	-21.75	QP

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading $\sqrt{5}$

Corr. Factor (dB) = LISN 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 μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

WSE

W5 C1

Page 15 /303

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





W5C7



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.2 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)	Ž
	0.009~0.490	2400/F(KHz)	300	
	0.490~1.705	24000/F(KHz)	30	
V	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 [Ž
	Above 960	500	3	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

		Limit (dBuV/m) (at 3M)						
	FREQUENCY (MHz)	PEAK	AVERAGE					
/	Above 1000	W5C74	W5 [7 54 W5 [

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).

Spectrum Parameter	Setting	
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	i Ci
band)		

	Receiver Parameter	Setting
1	Attenuation	S Auto WS LT
	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

Page 16 /303

Ilac-MRA



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.2.1 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.

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:

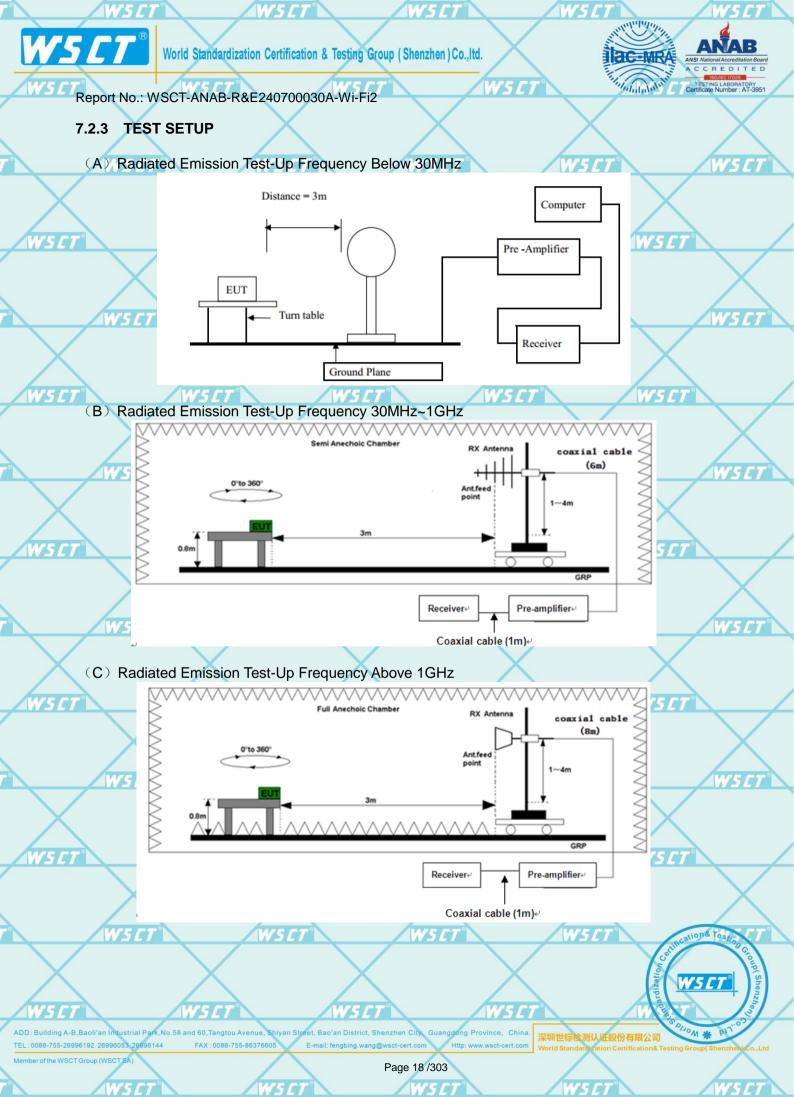
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

	orthogonal axis. The worst	case emissions were repo	rted	X
	7.2.2 DEVIATION FROM TES	ST STANDARD W5	ET" WS L	WSET
WSG	No deviation	WSET	WSET	WSCT
	WSET W	SET WS	ET WS I	WSCT
WSG	WSET	WSET	WSCT	WSCT
		SET WS	ET WS I	WSCT
WSE		WSET	WSET	WSCT
	\times	SET WS	$\langle \hspace{0.1cm} \rangle$	
X			X	WSCT WSCT

VSCT WS

Page 17 /303

WSET WSE



Note:

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

No result in this part for margin above 20dB.

7.2.4 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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7.2.5 RESULTS (BELOW 30 MHZ)

	Freq.	Reading	Limit	Margin	State
/	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
	WELL		-	-	P
	X	X	×	X	Р

Distance extr Limit line = sp	apolation fraight above 20 apolation factor =20 log (spoecific limits(dBuV) + distartion has been investig	pecific distance/test distan nce extrapolation factor.		5,47
WSET	W5 CT°	WSET	WSET°	WS CT
WSCT	WSET	VSET W.	SET W	SET
WSET	WSCT	WSET	WSET	WSET
WSET	WSET	YSET W.	SET W	SET
WSET	WSET	WSET	WSET	WSET
WSET	\times	YSCT W.	SET W	SET
WSET	WSCT	WSET	\times	X
X	X	\times	dizatio	WSCT Stranger

Page 19 /303









WSET Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.2.6 TEST RESULTS (BETWEEN 30M - 1000 MHZ) (WORST CASE)

Please refer to following diagram for individual(The worst mode is 11a)

Below 1GHz

Horizontal:

NS C



	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	THE
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	36.0007	36.99	-1.12	35.87	40.00	-4.13	QP
W5	2	4	107.8877	37.52	-3.27	34.25	43.50	-9.25	QP
	3	!	191.7450	42.15	-3.57	38.58	43.50	-4.92	QP
	4		287.9904	39.19	-0.39	38.80	46.00	-7.20	QP
	1 5	1	480.5276	36.71	4.85	41.56	46.00	-4.44	QP
	6	!	866.0879	29.48	12.31	41.79	46.00	-4.21	QP

			\ /	\ /	

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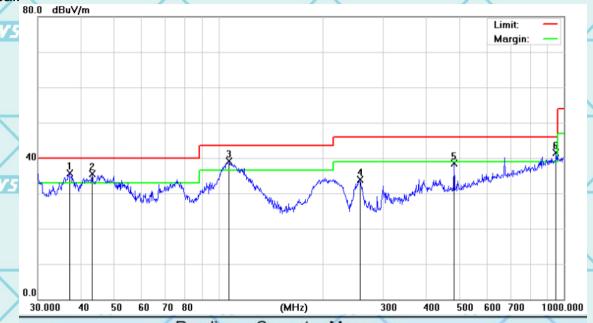


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Vertical:



W5	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	HA
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	37.0248	36.73	-0.96	35.77	40.00	-4.23	QP
$\overline{}$	2	Ti.	43.0505	36.38	-0.89	35.49	40.00	-4.51	QP
	3	!	107.1337	42.43	-3.36	39.07	43.50	-4.43	QP
W5	4		257.4222	35.46	-1.49	33.97	46.00	-12.03	QP
	7 5	4	480.5276	33.61	4.85	38.46	46.00	-7.54	QP

13.77

WSCT"

27.66

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46.00

41.43

IWSC)

QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

948.7610

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 (dBµV) - Limits (dBµV)

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WELT

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Page 21 /303

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W5







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WS ET

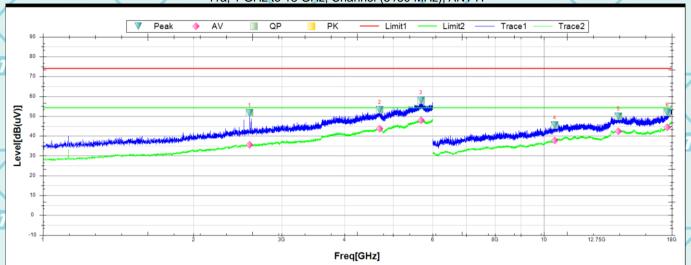
7.2.7 TEST RESULTS (ABOVE 1GHZ)

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

W5 CT



	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	1	2585.6250	51.59	5.85	45.74	74	-22.41	360	Horizontal	PK	Pass	
C	2	4705.0000	53.19	14.78	38.41	74	-20.81	68.4	Horizontal	PK	Pass	
	3	5685.6250	58	20.97	37.03	74	-16	103	Horizontal	PK	Pass	
	4	10515.0000	45.4	38.82	6.58	74	-28.6	349.4	Horizontal	PK	Pass	\
	5	14091.0000	49.82	41.38	8.44	74	-24.18	133.5	Horizontal	PK	Pass	7
1	6	17638.5000	51.79	44.08	7.71	74	-22.21	226.8	Horizontal	PK	Pass	

1	Final	Data List									
Ż	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t
	1	2585.6250	35.5	5.85	29.65	54	-18.5	360	Horizontal	AV	Pass
	2	4705.0000	43.7	14.78	28.92	54	-10.3	68.4	Horizontal	AV	Pass
(3	5685.6250	47.87	20.97	26.9	54	-6.13	103	Horizontal	AV	Pass
	4	10515.0000	37.71	38.82	-1.11	54	-16.29	349.4	Horizontal	AV	Pass
7	5	14091.0000	42.47	41.38	1.09	54	-11.53	133.5	Horizontal	AV	Pass
	6	17638.5000	44.42	44.08	0.34	54	-9.58	226.8	Horizontal	AV	Pass

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Page 22 /303

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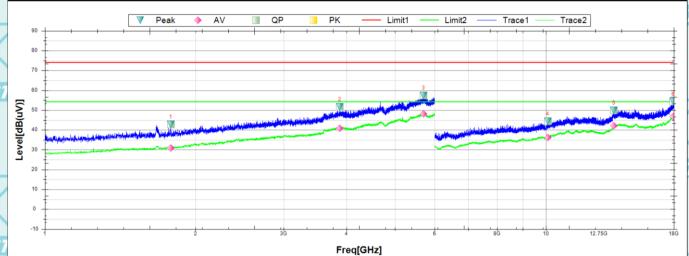




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	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
/	1	1783.7500	42.83	0.68	42.15	74	-31.17	360.1	Vertical	PK	Pass
	2	3880.6250	51.67	11.14	40.53	74	-22.33	316.2	Vertical	PK	Pass
C 1	3	5701.8750	57.35	21.12	36.23	74	-16.65	344.8	Vertical	PK	Pass
	4	10089.0000	44.33	38.22	6.11	74	-29.67	143.1	Vertical	PK	Pass
	5	13678.5000	49.94	40.66	9.28	74	-24.06	285.4	Vertical	PK	Pass
	6	17952.0000	54.26	46.18	8.08	74	-19.74	355.5	Vertical	PK	Pass

/	Final	Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
	1	1783.7500	30.86	0.68	30.18	54	-23.14	360.1	Vertical	AV	Pass	/
	2	3880.6250	40.73	11.14	29.59	54	-13.27	316.2	Vertical	AV	Pass	
	3	5701.8750	48.04	21.12	26.92	54	-5.96	344.8	Vertical	AV	Pass	7
(4	10089.0000	36.25	38.22	-1.97	54	-17.75	143.1	Vertical	AV	Pass	
	5	13678.5000	42.17	40.66	1.51	54	-11.83	285.4	Vertical	AV	Pass	
-	6	17952.0000	46.82	46.18	0.64	54	-7.18	355.5	Vertical	AV	Pass	/

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W5 E1

Page 23 /303

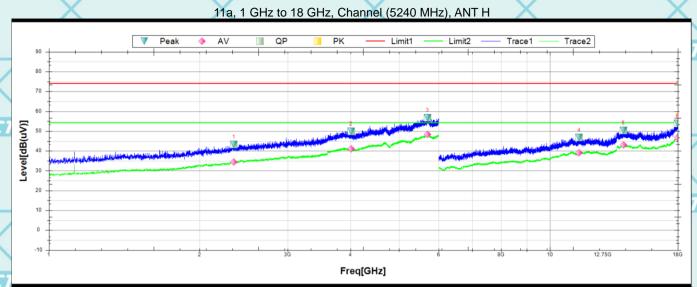






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	Susputed	Data	LIST

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2340.6250	43.18	4.8	38.38	74	-30.82	109.7	Horizontal	PK	Pass	7
(2	4010.6250	49.96	11.74	38.22	74	-24.04	230.4	Horizontal	PK	Pass	
	3	5701.8750	56.81	21.12	35.69	74	-17.19	355.7	Horizontal	PK	Pass	
7	4	11440.5000	46.8	39.1	7.7	74	-27.2	48.4	Horizontal	PK	Pass	_
	5	14022.0000	50.25	41.47	8.78	74	-23.75	360.2	Horizontal	PK	Pass	
	6	17976.0000	53.92	46.34	7.58	74	-20.08	239.7	Horizontal	PK	Pass	1

Final Data List

X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
5 C 1	1	2340.6250	34.32	4.8	29.52	54	-19.68	109.7	Horizontal	AV	Pass	
	2	4010.6250	41.05	11.74	29.31	54	-12.95	230.4	Horizontal	AV	Pass	
	3	5701.8750	48.23	21.12	27.11	54	-5.77	355.7	Horizontal	AV	Pass	
	4	11440.5000	39.15	39.1	0.05	54	-14.85	48.4	Horizontal	AV	Pass	
X	5	14022.0000	43.01	41.47	1.54	54	-10.99	360.2	Horizontal	AV	Pass	
5 C I	6	17976.0000	46.77	46.34	0.43	54	-7.23	239.7	Horizontal	AV	Pass	

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Page 24 /303

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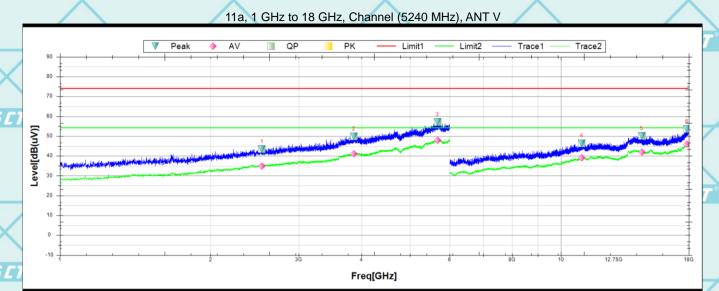






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	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	7
/	1	2532.5000	43.5	5.88	37.62	74	-30.5	115.6	Vertical	PK	Pass	
	2	3862.5000	49.79	11.05	38.74	74	-24.21	250.7	Vertical	PK	Pass	
C I	3	5674.3750	57.07	20.86	36.21	74	-16.93	200.5	Vertical	PK	Pass	
	4	11007.0000	46.44	39.49	6.95	74	-27.56	4.2	Vertical	PK	Pass	/
	5	14502.0000	50.14	40.85	9.29	74	-23.86	310.1	Vertical	PK	Pass	
	6	17857.5000	53.67	45.55	8.12	74	-20.33	360	Vertical	PK	Pass	7

	Final	Final Data List													
G	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t				
	1	2532.5000	34.89	5.88	29.01	54	-19.11	115.6	Vertical	AV	Pass	/			
	2	3862.5000	41.12	11.05	30.07	54	-12.88	250.7	Vertical	AV	Pass	\			
	3	5674.3750	47.93	20.86	27.07	54	-6.07	200.5	Vertical	AV	Pass	7			
1	4	11007.0000	39.02	39.49	-0.47	54	-14.98	4.2	Vertical	AV	Pass				
	5	14502.0000	41.84	40.85	0.99	54	-12.16	310.1	Vertical	AV	Pass				
	6	17857.5000	45.97	45.55	0.42	54	-8.03	360	Vertical	AV	Pass	/			

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Page 25 /303

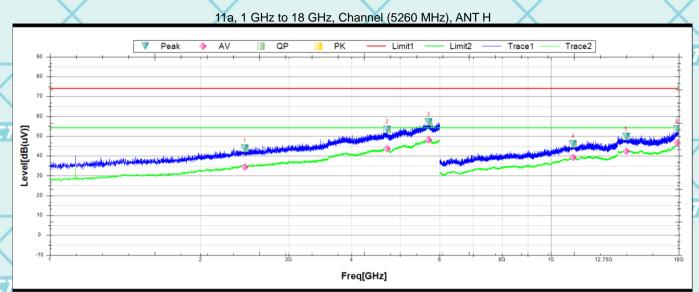






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2450.6250	43.93	5.43	38.5	74	-30.07	291.4	Horizontal	PK	Pass	7
1	2	4715.6250	53.33	14.8	38.53	74	-20.67	213.7	Horizontal	PK	Pass	
	3	5704.3750	57.07	21.15	35.92	74	-16.93	4.2	Horizontal	PK	Pass	
7	4	11082.0000	46.21	39.43	6.78	74	-27.79	360.1	Horizontal	PK	Pass	7
	5	14131.5000	49.94	41.33	8.61	74	-24.06	214.5	Horizontal	PK	Pass	
	6	17874.0000	53.57	45.66	7.91	74	-20.43	360.1	Horizontal	PK	Pass	1

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X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
5 C 1	1	2450.6250	34.44	5.43	29.01	54	-19.56	291.4	Horizontal	AV	Pass	7
	2	4715.6250	43.59	14.8	28.79	54	-10.41	213.7	Horizontal	AV	Pass	
	3	5704.3750	48.21	21.15	27.06	54	-5.79	4.2	Horizontal	AV	Pass	7
	4	11082.0000	39.17	39.43	-0.26	54	-14.83	360.1	Horizontal	AV	Pass	
	5	14131.5000	42.39	41.33	1.06	54	-11.61	214.5	Horizontal	AV	Pass	
5 <i>C 1</i>	6	17874.0000	46.49	45.66	0.83	54	-7.51	360.1	Horizontal	AV	Pass	

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Page 26 /303

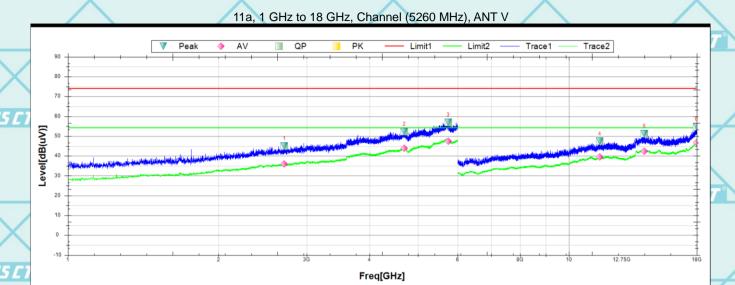






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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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	2705.6250	45.1	6.35	38.75	74	-28.9	352.5	Vertical	PK	Pass
X \	2	4697.5000	52.3	14.78	37.52	74	-21.7	137.1	Vertical	PK	Pass
<u>C1</u>	3	5746.2500	56.85	20.86	35.99	74	-17.15	185	Vertical	PK	Pass
	4	11529.0000	47.36	39.02	8.34	74	-26.64	171.4	Vertical	PK	Pass
	5	14151.0000	51.26	41.3	9.96	74	-22.74	60.2	Vertical	PK	Pass
	6	17991.0000	54.67	46.44	8.23	74	-19.33	360.1	Vertical	PK	Pass

	Final	Data List										
X G	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
	1	2705.6250	35.86	6.35	29.51	54	-18.14	352.5	Vertical	AV	Pass	
	2	4697.5000	44.02	14.78	29.24	54	-9.98	137.1	Vertical	AV	Pass	
	3	5746.2500	47.55	20.86	26.69	54	-6.45	185	Vertical	AV	Pass	1
X	4	11529.0000	39.39	39.02	0.37	54	-14.61	171.4	Vertical	AV	Pass	
C	5	14151.0000	42.41	41.3	1.11	54	-11.59	60.2	Vertical	AV	Pass	
<i>5</i>	6	17991.0000	46.89	46.44	0.45	54	-7.11	360.1	Vertical	AV	Pass	/

W5 E1

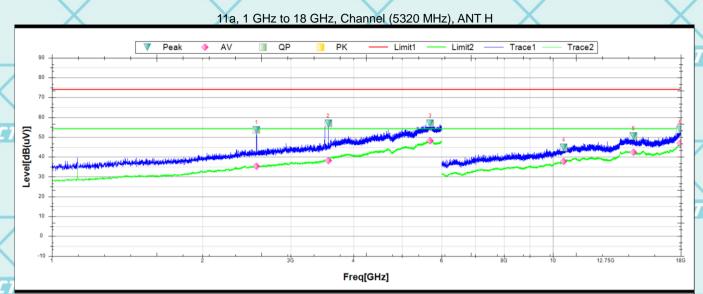






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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Susputed	Data	List

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
_	1	2562.5000	53.57	5.89	47.68	74	-20.43	223.5	Horizontal	PK	Pass	7
1	2	3562.5000	56.93	10	46.93	74	-17.07	225.9	Horizontal	PK	Pass	
	3	5694.3750	57	21.05	35.95	74	-17	70.5	Horizontal	PK	Pass	
7	4	10516.5000	44.71	38.82	5.89	74	-29.29	360.1	Horizontal	PK	Pass	
	5	14490.0000	50.54	40.86	9.68	74	-23.46	171.5	Horizontal	PK	Pass	
	6	17971.5000	53.83	46.31	7.52	74	-20.17	343.6	Horizontal	PK	Pass	

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	Filial Data List												
<	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t		
<i>C 1</i>	1	2562.5000	35.27	5.89	29.38	54	-18.73	223.5	Horizontal	AV	Pass		
	2	3562.5000	38.18	10	28.18	54	-15.82	225.9	Horizontal	AV	Pass		
	3	5694.3750	48.15	21.05	27.1	54	-5.85	70.5	Horizontal	AV	Pass		
	4	10516.5000	37.66	38.82	-1.16	54	-16.34	360.1	Horizontal	AV	Pass		
	5	14490.0000	42.31	40.86	1.45	54	-11.69	171.5	Horizontal	AV	Pass		
C 7	6	17971.5000	46.91	46.31	0.6	54	-7.09	343.6	Horizontal	AV	Pass		

W5 C7

WS CT

Page 28 /303



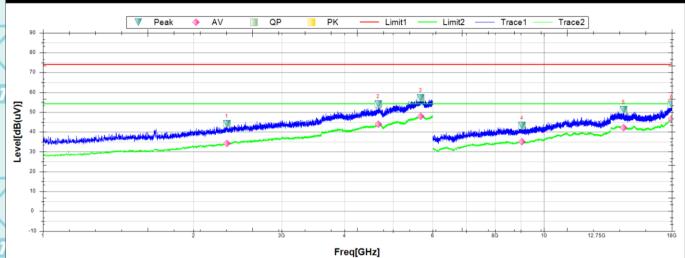




Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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	Suspu	iteu Data Lis	o L					susputed Data List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict								
/	1	2328.1250	44.05	4.8	39.25	74	-29.95	164.7	Vertical	PK	Pass								
	2	4670.0000	54.01	14.63	39.38	74	-19.99	330.8	Vertical	PK	Pass								
C1	3	5675.0000	57.21	20.86	36.35	74	-16.79	214.9	Vertical	PK	Pass								
	4	9042.0000	43.23	37.43	5.8	74	-30.77	127.2	Vertical	PK	Pass								
	5	14419.5000	51.17	40.95	10.22	74	-22.83	287.4	Vertical	PK	Pass								
	6	17989.5000	53.9	46.43	7.47	74	-20.1	301.8	Vertical	PK	Pass								

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/													
7	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t		
	1	2328.1250	34.25	4.8	29.45	54	-19.75	164.7	Vertical	AV	Pass	/	
	2	4670.0000	43.92	14.63	29.29	54	-10.08	330.8	Vertical	AV	Pass		
_	3	5675.0000	47.93	20.86	27.07	54	-6.07	214.9	Vertical	AV	Pass	7	
(4	9042.0000	34.97	37.43	-2.46	54	-19.03	127.2	Vertical	AV	Pass		
	5	14419.5000	42.17	40.95	1.22	54	-11.83	287.4	Vertical	AV	Pass		
7	6	17989.5000	46.66	46.43	0.23	54	-7.34	301.8	Vertical	AV	Pass	/	

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Final Data List

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Page 29 /303

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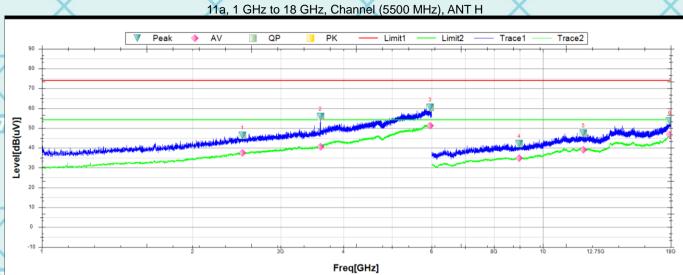






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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Susputed Data List												1
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
_	1	2513.1250	46.28	5.68	40.6	74	-27.72	359.3	Vertical	PK	Pass	
	2	3598.7500	55.85	10.15	45.7	74	-18.15	32	Vertical	PK	Pass	
	3	5957.5000	60.54	20.91	39.63	74	-13.46	162.3	Vertical	PK	Pass	
Ż	4	8968.5000	42.12	37.39	4.73	74	-31.88	341.2	Vertical	PK	Pass	
	5	12048.0000	47.5	38.61	8.89	74	-26.5	359.3	Vertical	PK	Pass	
	6	17934.0000	53.74	46.06	7.68	74	-20.26	358.5	Vertical	PK	Pass	0

Final Data List

\times	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
NS E1	1	2513.1250	37.43	5.68	31.75	54	-16.57	359.3	Vertical	AV	Pass	
	2	3598.7500	40.54	10.15	30.39	54	-13.46	32	Vertical	AV	Pass	
	3	5957.5000	51.13	20.91	30.22	54	-2.87	162.3	Vertical	AV	Pass	
	4	8968.5000	34.89	37.39	-2.5	54	-19.11	341.2	Vertical	AV	Pass	
\nearrow	5	12048.0000	39	38.61	0.39	54	-15	359.3	Vertical	AV	Pass	
NS ET	6	17934.0000	46.68	46.06	0.62	54	-7.32	358.5	Vertical	AV	Pass	

W5 C1

Page 30 /303

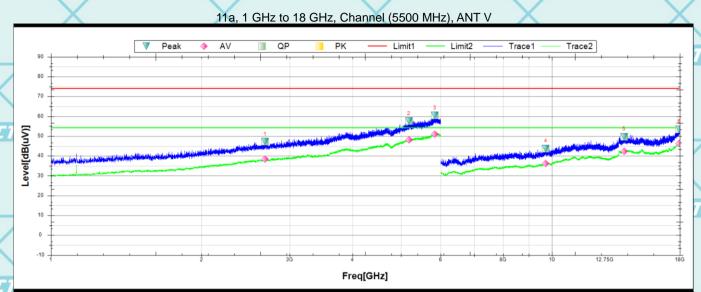






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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Susput	ted Dat	ta List

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2676.2500	47.18	6.22	40.96	74	-26.82	74.2	Horizontal	PK	Pass
<	2	5183.7500	57.52	17.08	40.44	74	-16.48	16.8	Horizontal	PK	Pass
	3	5840.6250	60.51	20.08	40.43	74	-13.49	53.8	Horizontal	PK	Pass
4	4	9726.0000	43.79	37.91	5.88	74	-30.21	40	Horizontal	PK	Pass
	5	13938.0000	49.76	41.34	8.42	74	-24.24	285	Horizontal	PK	Pass
	6	17952.0000	53.51	46.18	7.33	74	-20.49	99.8	Horizontal	PK	Pass

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X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
5 <i>C 1</i>	1	2676.2500	38.38	6.22	32.16	54	-15.62	74.2	Horizontal	AV	Pass	
	2	5183.7500	48.22	17.08	31.14	54	-5.78	16.8	Horizontal	AV	Pass	
	3	5840.6250	51.04	20.08	30.96	54	-2.96	53.8	Horizontal	AV	Pass	
	4	9726.0000	36.21	37.91	-1.7	54	-17.79	40	Horizontal	AV	Pass	
X	5	13938.0000	42.39	41.34	1.05	54	-11.61	285	Horizontal	AV	Pass	
S C T	6	17952.0000	46.45	46.18	0.27	54	-7.55	99.8	Horizontal	AV	Pass	

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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, Chir EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com 深圳世标检测认证股份有限公司
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Page 31 /303

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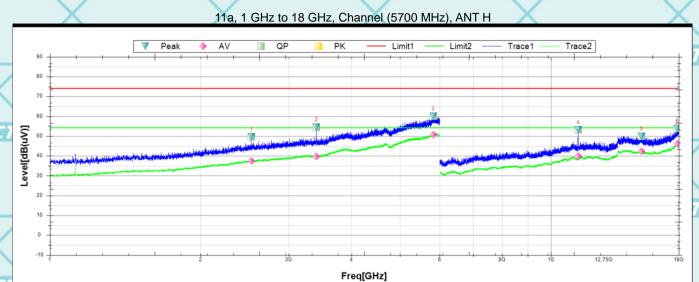






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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Susputed Data List

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2525.6250	49.59	5.81	43.78	74	-24.41	336.9	Horizontal	PK	Pass	7
(2	3406.2500	54.41	9.04	45.37	74	-19.59	46.5	Horizontal	PK	Pass	
	3	5824.3750	60	20.02	39.98	74	-14	84.8	Horizontal	PK	Pass	
7	4	11346.0000	53.11	39.19	13.92	74	-20.89	103.4	Horizontal	PK	Pass	7
	5	15175.5000	49.85	39.66	10.19	74	-24.15	31.6	Horizontal	PK	Pass	
	6	17886.0000	53.88	45.74	8.14	74	-20.12	134.4	Horizontal	PK	Pass	

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<	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
C	1	2525.6250	37.44	5.81	31.63	54	-16.56	336.9	Horizontal	AV	Pass	_
	2	3406.2500	39.75	9.04	30.71	54	-14.25	46.5	Horizontal	AV	Pass	
	3	5824.3750	50.8	20.02	30.78	54	-3.2	84.8	Horizontal	AV	Pass	
	4	11346.0000	39.97	39.19	0.78	54	-14.03	103.4	Horizontal	AV	Pass	
X	5	15175.5000	42.44	39.66	2.78	54	-11.56	31.6	Horizontal	AV	Pass	
<u>C</u>	6	17886.0000	46.22	45.74	0.48	54	-7.78	134.4	Horizontal	AV	Pass	

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Page 32 /303

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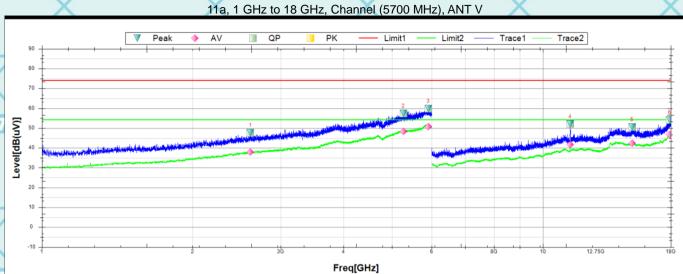






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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	Suspu	ited Data Lis	SI.								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2609.3750	47.74	5.95	41.79	74	-26.26	132.3	Vertical	PK	Pass
(2	5267.5000	57.4	17.14	40.26	74	-16.6	214.8	Vertical	PK	Pass
	3	5908.7500	59.76	20.51	39.25	74	-14.24	-0.1	Vertical	PK	Pass
7	4	11337.0000	52.03	39.2	12.83	74	-21.97	149.9	Vertical	PK	Pass
	5	15064.5000	50.62	40	10.62	74	-23.38	360	Vertical	PK	Pass
	6	17914.5000	54.09	45.93	8.16	74	-19.91	140.3	Vertical	PK	Pass

Final Data List

<u> </u>	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
<i>C 1</i>	1	2609.3750	37.85	5.95	31.9	54	-16.15	132.3	Vertical	AV	Pass	
	2	5267.5000	48.31	17.14	31.17	54	-5.69	214.8	Vertical	AV	Pass	
	3	5908.7500	50.69	20.51	30.18	54	-3.31	-0.1	Vertical	AV	Pass	7
	4	11337.0000	41.77	39.2	2.57	54	-12.23	149.9	Vertical	AV	Pass	
\	5	15064.5000	42.39	40	2.39	54	-11.61	360	Vertical	AV	Pass	
57	6	17914.5000	46.8	45.93	0.87	54	-7.2	140.3	Vertical	AV	Pass	

WS CT

Page 33 /303

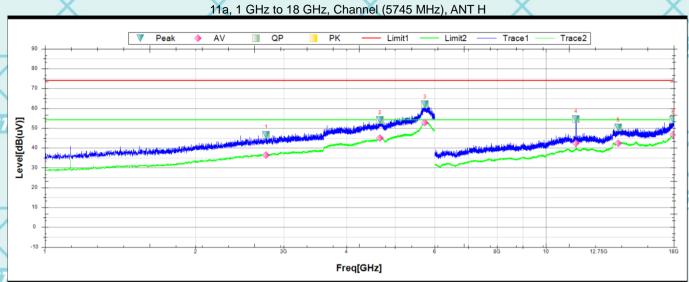






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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
_	1	2766.2500	46.66	6.69	39.97	74	-27.34	153	Horizontal	PK	Pass
(2	4668.1250	54.09	14.62	39.47	74	-19.91	265.3	Horizontal	PK	Pass
	3	5740.6250	62	20.92	41.08	74	-12	3.8	Horizontal	PK	Pass
7	4	11485.5000	54.61	39.06	15.55	74	-19.39	87.8	Horizontal	PK	Pass
	5	13951.5000	50.31	41.37	8.94	74	-23.69	80.6	Horizontal	PK	Pass
	6	17962.5000	54.33	46.25	8.08	74	-19.67	197.8	Horizontal	PK	Pass

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<	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t
<i>C1</i>	1	2766.2500	36.45	6.69	29.76	54	-17.55	153	Horizontal	AV	Pass
	2	4668.1250	44.92	14.62	30.3	54	-9.08	265.3	Horizontal	AV	Pass
	3	5740.6250	52.74	20.92	31.82	54	-1.26	3.8	Horizontal	AV	Pass
	4	11485.5000	42.32	39.06	3.26	54	-11.68	87.8	Horizontal	AV	Pass
	5	13951.5000	42.37	41.37	1	54	-11.63	80.6	Horizontal	AV	Pass
C J	6	17962.5000	46.85	46.25	0.6	54	-7.15	197.8	Horizontal	AV	Pass

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Page 34 /303

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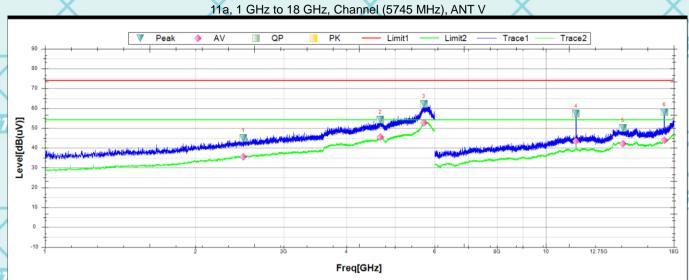






Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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Susputed Data List

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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
_	1	2488.1250	45.05	5.4	39.65	74	-28.95	0.8	Vertical	PK	Pass	7
(2	4673.1250	54.38	14.66	39.72	74	-19.62	355	Vertical	PK	Pass	
	3	5708.1250	62.21	21.19	41.02	74	-11.79	73.8	Vertical	PK	Pass	
5	4	11485.5000	57.28	39.06	18.22	74	-16.72	150	Vertical	PK	Pass	7
	5	14244.0000	50.1	41.18	8.92	74	-23.9	194.2	Vertical	PK	Pass	
	6	17239.5000	58.07	41.4	16.67	74	-15.93	145.2	Vertical	PK	Pass	

Final Data List

X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
5 C 1	1	2488.1250	35.59	5.4	30.19	54	-18.41	0.8	Vertical	AV	Pass	
	2	4673.1250	45.56	14.66	30.9	54	-8.44	355	Vertical	AV	Pass	
	3	5708.1250	52.69	21.19	31.5	54	-1.31	73.8	Vertical	AV	Pass	
	4	11485.5000	43.53	39.06	4.47	54	-10.47	150	Vertical	AV	Pass	
X	5	14244.0000	42.18	41.18	1	54	-11.82	194.2	Vertical	AV	Pass	
5 C I	6	17239.5000	43.92	41.4	2.52	54	-10.08	145.2	Vertical	AV	Pass	

Page 35 /303



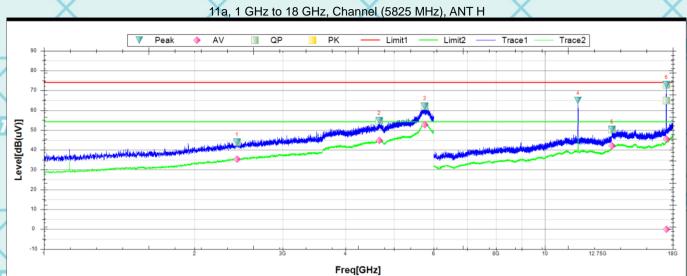




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	Suspu	usputeu Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
_	1	2428.7500	43.95	5.39	38.56	74	-30.05	176.9	Horizontal	PK	Pass	7
1	2	4671.8750	54.68	14.64	40.04	74	-19.32	0	Horizontal	PK	Pass	
	3	5760.0000	62.12	20.72	41.4	74	-11.88	3.8	Horizontal	PK	Pass	
7	4	11649.0000	64.94	38.92	26.02	74	-9.06	77	Horizontal	PK	Pass	-
	5	13608.0000	50.33	40.48	9.85	74	-23.67	60.2	Horizontal	PK	Pass	
	6	17487.0000	72.9	43.06	29.84	74	-1.1	74.6	Horizontal	PK	Pass	

Final Data List

X	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
C	1	2428.7500	35.32	5.39	29.93	54	-18.68	176.9	Horizontal	AV	Pass	7
	2	4671.8750	44.89	14.64	30.25	54	-9.11	0	Horizontal	AV	Pass	
	3	5760.0000	52.83	20.72	32.11	54	-1.17	3.8	Horizontal	AV	Pass	
	4	17486.9837	0	43.06	-43.06	54	-54	180.5	Horizontal	AV	Pass	
X	5	13608.0000	42.14	40.48	1.66	54	-11.86	60.2	Horizontal	AV	Pass	
<u> C</u>	6	17487.0000	45.51	43.06	2.45	54	-8.49	74.6	Horizontal	AV	Pass	

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Page 36 /303

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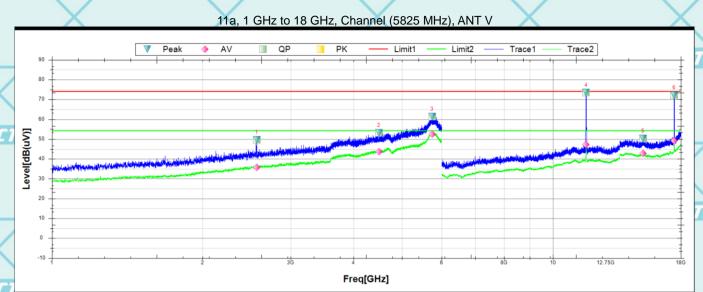
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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

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	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
_	1	2563.7500	49.57	6.1	43.47	74	-24.43	220.5	Vertical	PK	Pass	
/	2	4497.5000	53.13	14.15	38.98	74	-20.87	220.5	Vertical	PK	Pass	
	3	5742.5000	61.35	25.18	36.17	74	-12.65	360.1	Vertical	PK	Pass	
Ż	4	11653.5000	73.56	38.91	34.65	74	-0.44	236.4	Vertical	PK	Pass	
	5	15136.5000	50.21	39.78	10.43	74	-23.79	286.6	Vertical	PK	Pass	
	6	17464.5000	72.2	42.91	29.29	74	-1.8	229.2	Vertical	PK	Pass	

Final Data List

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t
Ż	1	2563.7500	35.83	6.1	29.73	54	-18.17	220.5	Vertical	AV	Pass
	2	4497.5000	43.7	14.15	29.55	54	-10.3	220.5	Vertical	AV	Pass
	3	5742.5000	52.43	25.18	27.25	54	-1.57	360.1	Vertical	AV	Pass
	4	11653.5000	47.24	38.91	8.33	54	-6.76	236.4	Vertical	AV	Pass
	5	15136.5000	42.85	39.78	3.07	54	-11.15	286.6	Vertical	AV	Pass
į	6	17464.5000	49.26	42.91	6.35	54	-4.74	229.2	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.
- 4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.3 ANTENNA REQUIREMENT

Standard requirement: The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and FCC part 15C section 15.407.

FCC part 15C section 15.203 and FCC part 15C section 15.407 requirements: Systems operating in the 5150~5850MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Wi-Fi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is "MAIN:2.02dBi ,AUX:2.14 dBi".

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MAIN ANT1 AUX ANT2

<CDD Modes > 77 W5 [7]

FCC KDB 662911 D01 Multiple Transmitter Output v02r01 For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT \leq 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with

GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01

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Page 38 /303

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

W5 E7

W5C1 The directional gain "DG" is calculated as following table. DG for PSD Ant1 Ant2 DG for power <CDD Modes> (dBi) (dBi) (dBi) (dBi) 2.14 5.09 5180~5825MHz 2.02 2.14

Power limit reduction = Composite gain - 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain - 6dBi, (min = 0) W5 ET WSE WSEI W5 ET W5 E1 WS CT W5C1 NSCI WSE

Page 39 /303







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.4 EMISSION BANDWIDTH

7.4.1 TEST EQUIPMENT

Please refer to Section 5 this report.

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7.4.2 TEST PROCEDURE

4	-26dB Bandwidth	and 99% Occupied Ba	ndwidth:	/www.	Arres	
AWS CT	Test Method:			m analyzer in peak hold me	ode // /	
				on that is 26 dB down from		
				g of the analyzer. Readjust		
		measurement as needed	l until the RBW/EBW	ratio is approximately 1%		
	Test Equipment Sett	ting – 26dB Bandwidth:	Test E	quipment Setting – 99%% Ba	ndwidth:	Auren
	a)Attenuation: Auto	MILI	a)Spa	in: 1.5 times to 5.0 times th	e OBW	WSLT
	b)Span Frequency: >			W: 1 % to 5 % of the OBW		
		tely 1% of the emission bar		V: ≥ 3 x RBW		
	d)VBW: VBW > RI		-/			
	e)Detector: Peak			ector: Peak		
ALL CONTRACTOR OF THE PARTY OF	f)Trace: Max Hold	MARIE S	e) i ra	ce: Max Hold	THE STATE OF THE S	
AWSLI	g)Sweep Time: Auto	W3L	W5 ET	WSCT	W5C	
	6 dB Bandwidth:	· /				
		\ 	P 4 14 41 4			
	Test Method:			m analyzer in peak hold me		
				B789033 D02 v01 for Com		
	WSET		ormation Infrastructur	e (U-NII) Devices - section	(C) Emission	WELT
_		Bandwidth.			F14	
			em was performed in	accordance with KDB6629	11 D01 v02r01	
		Emissions	X	×		
		Testing of Transmitters	with Multiple Outputs	in the Same Band.		
		d)Measured the spectru	ım width with power h	igher than 6dB below carrie	er.	
WELL	Test Equipment Sett	ting: E F T	AWS LT	WSCT	WEL	
TIPE I	a)Attenuation: Auto		e)Dete	ctor: Peak		
	b)Span Frequency:			e: Max Hold		
	c)RBW: 100kHz	X		ep Time: Auto	X	X
			B/~ · · ·	T		
	4)VDW. > 2 " DD	W				
	d)VBW: ≥ 3 x RB					
	Maximum Condu	cted Output Power Mea		577	WSCT	WSCT
		cted Output Power Mea a)The transmitter outpu	t (antenna port) was o	connected to the power me		WSET
	Maximum Condu	cted Output Power Mea a)The transmitter outpu b)Test was performed in	t (antenna port) was on accordance with KD	B789033 D02 v01 for Com	pliance Testing of	WSET
X	Maximum Condu	cted Output Power Mea a)The transmitter outpu b)Test was performed in	t (antenna port) was on accordance with KD		pliance Testing of	WSET
\times	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Inf	t (antenna port) was on accordance with KD ormation Infrastructur	B789033 D02 v01 for Com	pliance Testing of (E) Maximum	WSET
\times	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Inf	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) =	pliance Testing of (E) Maximum	WSET
WSG	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Informed conducted output power (Measurement using a	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of atted RF average ports	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter).	pliance Testing of (E) Maximum =>b) Method PM-G	WSET
WSG	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna systema)	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of atted RF average ports	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) =	pliance Testing of (E) Maximum =>b) Method PM-G	WSCT
WSE	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna systemissions	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter).	pliance Testing of (E) Maximum =>b) Method PM-G	WSCT
WSE	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna systemissions Testing of Transmitters	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). accordance with KDB6629 in the Same Band.	pliance Testing of (E) Maximum =>b) Method PM-G 911 D01 v02r01	WSCT
WSE	Maximum Condu	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring maximum.	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). a accordance with KDB6629 in the Same Band. but power with multiple anter	pliance Testing of (E) Maximum =>b) Method PM-G 911 D01 v02r01	WSCT
WSE	Maximum Condu Test Method:	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring managered in the value of t	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). a accordance with KDB662 in the Same Band. but power with multiple antenula.	pliance Testing of (E) Maximum =>b) Method PM-G P11 D01 v02r01	WSET
WSE	Maximum Condu Test Method: Test Equipment Sett	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna system Emissions Testing of Transmitters d)When measuring management using a column of the value of the valu	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). a accordance with KDB662 in the Same Band. but power with multiple antenula.	pliance Testing of (E) Maximum =>b) Method PM-G 911 D01 v02r01	WSCT
WST	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna system is sions Testing of Transmitters d)When measuring management using: Detector - Average Density:	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic form	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). a accordance with KDB662s in the Same Band. but power with multiple antenula.	pliance Testing of (E) Maximum =>b) Method PM-G 911 D01 v02r01 enna systems, add	WSCT
WST	Maximum Condu Test Method: Test Equipment Sett	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna system is sions Testing of Transmitters d)When measuring management using: Detector - Average Density: a)The transmitter output b)The transmitter output b)The transmitter output b)The transmitter output b)Test was performed in the power of the properties of the transmitter output b)The transmitter output b)Test was performed in the properties of the transmitter output b)Test was performed in the properties of the properti	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic formatic (antenna port) was of	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB662s in the Same Band. But power with multiple antenula.	pliance Testing of (E) Maximum =>b) Method PM-G P11 D01 v02r01 enna systems, add spectrum analyzer.	WSCT
WSI	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring management using: Detector - Average Density: a)The transmitter output b)Test was performed in	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic formatic (antenna port) was on accordance with KD	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB662 in the Same Band. Bout power with multiple antenula. Connected RF switch to the B789033 D02 v01 for Com	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of	WSET
WSE	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring management using a every result of the value (mg: Detector - Average density: a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using)	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic formation Infrastructure.	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB662s in the Same Band. But power with multiple antenula.	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of	WSET
WSE	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring management using: Detector - Average Density: a)The transmitter output b)Test was performed in Unlicensed National Information (PSD)	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic formation Infrastructure.	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. Bout power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section	pliance Testing of (E) Maximum =>b) Method PM-G P11 D01 v02r01 Penna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power	WSET
WSE	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna system is sions Testing of Transmitters d)When measuring manager of the value of t	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic formation Infrastructure.	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB662 in the Same Band. Bout power with multiple antenula. Connected RF switch to the B789033 D02 v01 for Com	pliance Testing of (E) Maximum =>b) Method PM-G P11 D01 v02r01 Penna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power	WSCT
W5 G	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring many every result of the value (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring many every result of the value (Measurement using: Detector - Average (Measurement) a)The transmitter output b)Test was performed in Unlicensed National Information (PSD) c)Multiple antenna systemism (PSD) c)Multiple antenna systemism (PSD) c)Multiple antenna systemism (PSD)	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic form t (antenna port) was on accordance with KD ormation Infrastructurems was performed in the company of the company	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 In the Same Band. Bout power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 In accordance KDB662911 II	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band	WSCT
W5 G	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna system (Measurement using of Transmitters d)When measuring management (Measurement of the value (Measurement of the valu	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs kimum conducted outputs by mathematic form t (antenna port) was on accordance with KD ormation Infrastructurems was performed in the company of the company	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. Bout power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band	WSCT
W5 F	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring many every result of the value (ming: Detector - Average Density: a)The transmitter output b)Test was performed in Unlicensed National Information (PSD) c)Multiple antenna systemist Power Spectral Density (PSD) outputs.	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs by mathematic form t (antenna port) was on accordance with KD ormation Infrastructurems was performed in Measurements (a) Measurements (b) Measurements (b) Measurements (a) Measurements (a	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. But power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 It easure and sum the spectroscopic contents.	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band a across the	WSCT
W5 G	Test Method: Test Equipment Sett Power Spectral D Test Method:	a)The transmitter output b)Test was performed in Unlicensed National Information conducted output power (Measurement using a c)Multiple antenna system Emissions Testing of Transmitters d)When measuring managements and the value of the valu	t (antenna port) was on accordance with KD ormation Infrastructur r => 3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs by mathematic form t (antenna port) was on accordance with KD ormation Infrastructure ems was performed in Measurements (a) M spectral bin of output	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. But power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 It easure and sum the spectral is summed with that in the	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band a across the e first spectral bin of	WSCT
WSG	Test Method: Test Equipment Sett Power Spectral D Test Method:	a)The transmitter output b)Test was performed in Unlicensed National Information (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring many every result of the value (Measurement using a c)Multiple antenna systemissions Testing of Transmitters d)When measuring many every result of the value (Measurement using) Detector - Average (Measurement using) Detector - Avera	t (antenna port) was on accordance with KD ormation Infrastructur r => 3. Measurement of gated RF average powers was performed in with Multiple Outputs simum conducted outputs by mathematic form t (antenna port) was on accordance with KD ormation Infrastructure ems was performed in Measurements (a) M spectral bin of output	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. But power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 It easure and sum the spectroscopic contents.	pliance Testing of (E) Maximum (E) Maximum (E) Method PM-G (E) 11 D01 v02r01 (E) Plant Systems, add (E) Spectrum analyzer. (E) Maximum Power (E) Maximum (E)	
WSG	Maximum Condu Test Method: Test Equipment Sett Power Spectral D	a)The transmitter output b)Test was performed in Unlicensed National Infronducted output power (Measurement using a c)Multiple antenna system Emissions Testing of Transmitters d)When measuring many every result of the value sing: Detector - Average Density: a)The transmitter output b)Test was performed in Unlicensed National Infrospectral Density (PSD) c)Multiple antenna system Power Spectral Density (PSD) outputs. d)When measuring first output 2 and that from the value for	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement ugated RF average powers was performed in with Multiple Outputs simum conducted outputs by mathematic formation Infrastructure ems was performed in Measurements (a) M spectral bin of output he first spectral bin of	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. Sout power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 It easure and sum the spectral is summed with that in thoutput 3 and so on up to the section of the couput 3 and so on up to the couput 3 and 3	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band a across the e first spectral bin of the Nth output to	WS CT
WSG	Test Method: Test Equipment Sett Power Spectral D Test Method:	a)The transmitter output b)Test was performed in Unlicensed National Infronducted output power (Measurement using a c)Multiple antenna system Emissions Testing of Transmitters d)When measuring many every result of the value sing: Detector - Average Density: a)The transmitter output b)Test was performed in Unlicensed National Infrospectral Density (PSD) c)Multiple antenna system Power Spectral Density (PSD) outputs. d)When measuring first output 2 and that from the value for	t (antenna port) was on accordance with KD ormation Infrastructur r =>3. Measurement ugated RF average powers was performed in with Multiple Outputs simum conducted outputs by mathematic formation Infrastructure ems was performed in Measurements (a) M spectral bin of output he first spectral bin of	B789033 D02 v01 for Come (U-NII) Devices - section using a Power Meter (PM) = wer meter). In accordance with KDB6629 in the Same Band. But power with multiple antenda. Connected RF switch to the B789033 D02 v01 for Come (U-NII) Devices - section accordance KDB662911 It easure and sum the spectral is summed with that in the	pliance Testing of (E) Maximum =>b) Method PM-G 211 D01 v02r01 enna systems, add spectrum analyzer. pliance Testing of (F) Maximum Power 201 v02r01 in-Band a across the e first spectral bin of the Nth output to	

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frequency bins is computed in the same way.

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Page 40 /303

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

W5

WSET





Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2 and the final result should ≤ 30 dBm. Test Equipment Setting: a)Attenuation: Auto e)Detector: RMS b) Span Frequency: Encompass the entire emissions bandwidth (EBW) of f)Trace: AVERAGE 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 ppm and 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 7.4.3 CONFIGURATION OF THE EUT Same as section 3.4 of this report 7.4.4 EUT OPERATING CONDITION Same as section 3.5 of this report.

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Page 41 /303





Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

7.4.5 LIMIT

	-26dB Bandwidth and 99% Occupied Bandwidth:	$\overline{}$	
	Limit: No restriction limits.	WE CT. WE CT.	WAL CT
	-6 dB Bandwidth:	TIPE TO THE TOTAL	Mall
\ /	Limit: For digital modulation systems, the m	inimum 6dB bandwidth shall be at least 500 kHz.	
X	Test Equipment Setting:	XX	
	a)Attenuation: Auto	e)Detector: Peak	
	b)Span Frequency: > 6dB Bandwidth	f)Trace: Max Hold	
155	c)RBW: 100kHz	g)Sweep Time: Auto	
	d)VBW: ≥ 3 x RBW		
	Maximum Conducted Output Power Measurement:	X	X
	□ 5.15~5.2		
	Limit of Outdoor access point:	Limit of Indoor access point:	/
	The maximum conducted output power over the	The maximum conducted output power over the	_AW5LT
	frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not	frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does	
\sim	exceed 6 dBi. If transmitting antennas of directional gain	not	
	greater than 6 dBi are used, both the maximum	exceed 6 dBi. If transmitting antennas of directional	
	conducted output power and the maximum power	gain greater than 6 dBi are used, both the maximum	
VS CT	spectral density shall be reduced by the amount in dB	conducted output power and the maximum power	
	that the directional gain of the antenna exceeds 6 dBi.	spectral density shall be reduced by the amount in	
	The maximum e.i.r.p. at any elevation angle above 30	dB	
	degrees as measured from the horizon must not exceed	that the directional gain of the antenna exceeds 6	
	125 mW (21 dBm).	dBi.	
	☐Limit of Fixed point-to-point access points:		WSIT
	The maximum conducted output power over the	The maximum conducted output power over the	
\/	frequency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 250	
X	(30dBm). Fixed point-to-point U-NII devices may employ	mW	
	antennas with directional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does	
VEFT	corresponding reduction in the maximum conducted	not	
P.L.S.	output power or maximum power spectral density. For	exceed 6 dBi. If transmitting antennas of directional	
	fixed point-to-point transmitters that employ a directional	gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power	
	antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum	spectral density shall be reduced by the amount in	X
	power spectral density is required for each 1 dB of	dB	
	antenna gain in excess of 23 dBi.	that the directional gain of the antenna exceeds 6	We can
	distributed gally in oxogo of 25 delivery	dBi.	WSCT
\ /	⊠5.25-5.35 GHz & ∑	5.470-5.725 GHz	
X	The maximum conducted output power over the frequency		
	mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB e		
	antennas of directional gain greater than 6 dBi are used, l		
	maximum power spectral density shall be reduced by the	amount in dB that the directional gain of the antenna	
	exceeds 6 dBi.	25.21	\ /
	∑ 5.725~5.		X
	The maximum conducted output power over the frequence transmitting antennas of directional gain greater than 6 dB		
	power and the maximum power spectral density shall be r		(m)
	the antenna exceeds 6 dBi. However, fixed point-to-point		WSCT
\ /	transmitting antennas with	and the second state of th	
X	directional gain greater than 6 dBi without any correspond	ding reduction in transmitter conducted power.	
	Power Spectral Density		
	⋈ 5.15~5.2	25 GHz	
	Limit of Outdoor access point: 17 dBm/MHz	Limit of Indoor access point: 17 dBm/MHz	
	Limit of Fixed point-to-point access points: 17	☐ Limit of Mobile and portable client devices: 11	\ /
	dBm/MHz	dBm/MHz	X
	□5.25-5.35 GHz	11 dBm/MHz	
		11 dBm/MHz	
	⊠5.725~5.85 GHz	30 dBm/500kHz	ation& Testing
	Frequency Stability Measurement:	(§ ¹)	o ci
V		the band of operation under all conditions of normal	The second second
	operation as specified in the user's ma		WSCT° Shenz
		ance shall be \pm 20 ppm maximum for the 5 GHz band	T Inzh
15 E I	(IEEE 7 WS CT	W517 MS	3
		7	.00

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W5 C

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802.11n specification).

7.4.6 TEST RESULT

W5 C

W5CT

-26dB Bandwidth and 99% Occupied Bandwidth

5	Product	: EUT-Sample	Test Mode	: See section 3.4	I
	Test Item	: -26dB Bandwidth/-6dB Bandwidth	Temperature	: 25 ℃	
		and 99% Occupied			
		Bandwidth			
	Test Voltage	: DC 11.55V	Humidity	: 56%RH	
		/ W-5 - /	W-7-	WSL	
	Test Result	: PASS			7

-26dB Bandwidth					
WELT	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Verdict	W5CT°
WSET WS	a	5180	19.76	Pass	
	а	5240	19.16	Pass	
	а	5260	19.61	Pass	
	а	5320	19.53	Pass	
	a	5500	20.05	Pass	
WSET	a 🦰	5700	19.58	Pass	W5 CT
	n20	5180	20.26	Pass	
	n20	5240	19.82	Pass	
	n20	5260	20.83	Pass	
	n20	5320	20.56	Pass	
	n20	5500	20.30	Pass	
WSET WS	n20	5700	20.18	Pass	WEE CT.
AND AND	n40	5190	39.51	Pass	W5CT°
	n40	5230	39.86	Pass	
	n40	5270	40.24	Pass	
	n40	5310	39.29	Pass	
	n40	5510	39.53	Pass	
THE CT.	n40	5670	39.72	Pass	Week CT.
W5ET*	ac20	5180	20.10	Pass	WS CT"
	ac20	5240	19.91	Pass	
	ac20	5260	20.22	Pass	
	ac20	5320	20.40	Pass	
	ac20	5500	20.11	Pass	
August 1997	ac20	5700	20.36	Pass	ALCO CE
WSCT [®] WS	ac40	5190	39.24	Pass	WSET
	ac40	5230	38.71	Pass	
	ac40	5270	38.77	Pass	
	ac40	5310	38.69	Pass	
	ac40	5510	39.24	Pass	
THE CONTRACTOR OF THE CONTRACT	ac40	5670	39.63	Pass	THE CT.
W5 CT	ac80	5210	79.04	Pass	W5 CT
	ac80	5290	78.92	Pass	
	ac80	5530 5610	78.69 78.35	Pass Pass	
	ac80 ax20	5180	21.32	Pass	
	ax20	5240	19.73	Pass	
WELLS WE	ax20	5260	21.23	Pass	WEE CT.
WSCT WS	ax20	5320	22.02	Pass	WSET
	ax20	5500	21.95	Pass	
	ax20	5700	23.02	Pass	
	ax40	5190	49.03	Pass	
	ax40	5230	39.41	Pass	
THE STATE OF THE S	ax40	5270	39.41	Pass	
WSET	ax40	5310	48.33	Pass	acationa Testino
	ax40	5510	51.76	Pass	WSCT WSCT
	ax40	5670	54.66	Pass	8
	ax80	5210	79.98	Pass	WE CT S
	ax80	5290	79.78	Pass	Bhen ₂
	ax00	5290	04.04	Daga	3

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5530

ax80

Pass

Page 43 /303

81.84



-6dB Bandwidth
Mode Fr

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Limit -6 dB Bandwidth (MHz)



Verdict

Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2

Frequency (MHz)

ax80	X	5610	79.72	Pass
ax160		5250	165.7	Pass
ax160 /		5570	163.1	Pass

-6 dB Bandwidth (MHz)

5 X 6	au		o ab banaman (iiii iz)	Ziiiii Gaz zaiiaiiiaii (i		
	а	5745	16.41	0.5	Pass	
	а	5825	16.31	0.5	Pass	
August 1	n20	5745	17.60	0.5	Pass	2
WSCT"	n20	5825	17.58	0.5	Pass	
	n40	5755	35.10	0.5	Pass	
	n40	5795	35.10	0.5	Pass	
	ac20	5745	17.19	0.5	Pass	
	ac20	5825	17.38	0.5	Pass	
	ac40	5755	35.10	0.5	Pass	-
	ac40	5795	35.11	0.5	Pass	'5 ET 🔪
	ac80	5775	75.08	0.5	Pass	
	ax20	5745	18.51	0.5	Pass	
X	ax20	5825	18.78	0.5	Pass	
	ax40	5755	35.79	0.5	Pass	
	ax40	5795	36.03	0.5	Pass	
WS CT	ax80	5775	76.01	V5L / 0.5	Pass	
	4.00	11.2.3.10	/	/	/ / / / / / / / / / / / / / / / / / / /	
	VS ET	WS	WSC	WSCI	W	/SET
WSCT		WSET	WSET	WSET	WSET	
	$\overline{}$					
	WSET	WSI	WS ET	WSE	M	ISET .
WSET		WSET	WSET	WSET	WSET	
TIP!			111111	THE STATE OF THE S	11717	
	WS ET	W51	WSET	WSC	T W	/SCT
WSCT		WSET	WSET	WSET	WSET	
	V5 ET	WS	$\langle \rangle$	$\langle \hspace{0.1cm} \hspace{0.1cm}$		
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Page 44 /303







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2



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Page 45 /303







Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi2 -26dB Bandwidth a 5260MHz Spectrum Analyzer 1
Occupied BW SCPI + Center Freq: 5.260000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω KEYSIGHT Input: RF Atten: 30 dB Trig: Free Run Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off #IF Gain: Low Align: Auto Mkr3 5.269801000 GHz 1 Graph Ref Lvi Offset 5.30 dB Ref Value 25.30 dBm -21.69 dBm Scale/Div 10.0 dB δ1 **▲**3 Center 5.26000 GHz #Res BW 200.00 kHz #Video BW 620.00 kHz Span 30 MHz Sweep 1.33 ms (10001 pts) 2 Metrics Measure Trace Trace 1 Occupied Bandwidth 16.425 MHz Total Power 19.3 dBm Transmit Freq Error -1.799 kHz % of OBW Power 99.00 % x dB Bandwidth 19.61 MHz -26.00 dB Jul 19, 2024 XX --26dB Bandwidth a 5320MHz Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Atten: 30 dB Center Freq: 5.320000000 GHz KEYSIGHT Input: RF Trig: Free Run Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 5.329772000 GHz 1 Graph Ref Lvi Offset 5.35 dB Ref Value 25.35 dBm -23.01 dBm Scale/Div 10.0 dB thankfullangen betware thanken benefitier be Span 30 MHz Sweep 1.33 ms (10001 pts) Center 5.32000 GHz #Video BW 620.00 kHz #Res BW 200.00 kHz

Jul 19, 2024 10:38:44 AM

16.465 MHz

8.195 kHz

19.53 MHz

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

Trace 1

20.1 dBm

99.00 %

-26.00 dB

ation& Tes

2 Metrics

Measure Trace

% of OBW Power

Total Power

x dB

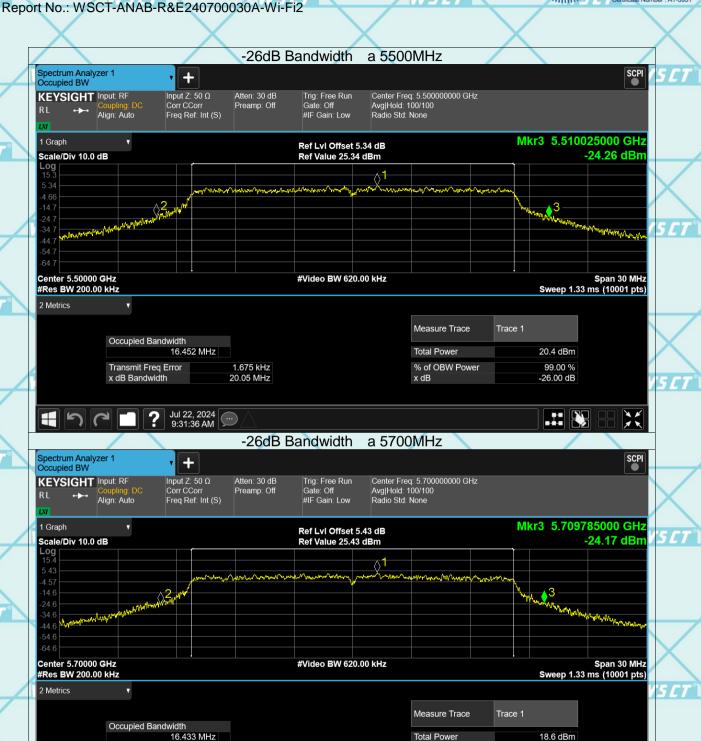
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-6.005 kHz

19.58 MHz

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Jul 22, 2024 9:37:36 AM

10M # 深圳世标检测认证股份有限公司

99.00 %

-26.00 dB

Transmit Freq Error x dB Bandwidth

Page 47 /303

VS CI

% of OBW Power

x dB

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Page 48 /303

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17.673 MHz

Jul 22, 2024 9:59:31 AM

Transmit Freq Error x dB Bandwidth

Total Power

x dB

% of OBW Power

10M # 深圳世标检测认证股份有限公司

19.2 dBm

99.00 %

-26.00 dB

4.570 kHz

20.56 MHz

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Page 49 /303







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Page 50 /303

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