#### Shenzhen Global Test Service Co.,Ltd.



No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

#### FCC PART 15 SUBPART C TEST REPORT

#### **FCC PART 15.407**

Report Reference No...... GTS20250313007-2-04

FCC ID.....: 2AYD5-I24M01

Compiled by

( position+printed name+signature) .: File administrators Peter Xiao

Supervised by

( position+printed name+signature) .: Test Engineer Evan Ouyang

Approved by

( position+printed name+signature) .: Manager Jason Hu

Date of issue ...... Apr.24, 2025

Representative Laboratory Name.: Shenzhen Global Test Service Co., Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative

Address ...... Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu

Street, Longgang District, Shenzhen, Guangdong, China

Feder Siso Evan Ouyang

Applicant's name...... Imin Technology Pte Ltd

Test specification ....:

Standard ...... FCC Part 15.407: General technical requirements

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF ...... Dated 2014-12

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Test item description ...... POS Device

Trade Mark .....:

Manufacturer ...... Imin Technology Pte Ltd

Model/Type reference ...... 124M01 Listed Models ...... N/A

Operation Frequency....... From 5180MHz to 5240MHz/ 5260MHz to 5320MHz/ 5500MHz to

5700MHz/ 5745MHz to 5825MHz

Hardware Version ...... N/A

Software Version .....: N/A

Rating ...... DC 7.7V by battery,

Recharged by DC 9.0V

Result .....: PASS

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### TEST REPORT

Test Report No. :	GTS20250313007-2-04	Apr.24, 2025	
	G1320230313001-2-04	Date of issue	

Equipment under Test : POS Device

Model /Type : I24M01

Listed model : N/A

Applicant : Imin Technology Pte Ltd

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Manufacturer : Imin Technology Pte Ltd

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2020: American National Standard for Testing Unlicensed Wireless Devices

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01: UNII, U-NII, U-NII Test Procedures

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# 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	Feb.01, 2025
Testing commenced on	• •	Feb.01, 2025
Testing concluded on	:	Apr.23, 2025

# 2.2. Product Description

Product Name:	POS Device
Trade Mark:	iMin
Model/Type reference:	I24M01
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 7.7V by battery, Recharged by DC 9.0V
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20250313007-2-1#& GTS20250313007-2-2#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz
WLAN Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n(HT20)
Channel separation:	5MHz
WIFI(5.2G/5.3G/5.7G Band)	
Frequency Range	5180MHz ~ 5240MHz, 5260MHz ~ 5320MHz, 5500MHz ~ 5700MHz
Channel Number	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz)
Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM,16QAM, QPSK,BPSK)
WIFI (5.8G Band)	
Frequency Range	5745MHz ~ 5825MHz

Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM,16QAM, QPSK,BPSK)
Antenna Description	Internal Antenna, 2.00dBi(Max.) for 2.4G Band and 2.00dBi(Max.) for 5G Band
2G	
Support Band	GPRS850/GPRS1900/EDGE850/EDGE1900
Release Version	R99
GPRS Class	Class 12
EGPRS Class	Class 12
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
Type Of Modulation	GMSK for GPRS; GMSK/8PSK for EGPRS
Antenna Description	Internal Antenna; -3.37dBi (max.) For GPRS850/EDGE850; 2.51dBi (max.) For GPRS1900/EDGE1900;
3G	
UMTS Operation Frequency Band	UMTS FDD Band 2(1850 MHz -1910MHz) UMTS FDD Band 5(824 MHz -849MHz)
WCDMA Release Version	R7
HSDPA Release Version	Release 5
HSUPA Release Version	Release 6
HSPA+ Release Version	Release 7
Modulation Type	QPSK for UMTS
Antenna Description	Internal Antenna; 2.51dBi (max.) For WCDMA Band 2; -3.37dBi (max.) For WCDMA Band 5;
LTE	
LTE Operation Frequency Band	E-UTRA Band 2(1850 MHz -1910MHz) E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 7(2500 MHz -2570MHz) E-UTRA Band 12(699 MHz -716MHz) E-UTRA Band 13(777 MHz -787MHz) E-UTRA Band 14(788 MHz -798MHz) E-UTRA Band 17(704 MHz -716MHz)
	E-UTRA Band 25(1850 MHz -1915MHz) E-UTRA Band 26(814 MHz -824MHz) E-UTRA Band 26(824 MHz -849MHz) E-UTRA Band 41(2496 MHz -2690MHz) E-UTRA Band 66(1710 MHz -1780MHz)
LTE Release Version	R10
Type Of Modulation	QPSK/16QAM
Antenna Description	Internal Antenna; 2.51dBi (max.) For LTE Band 2; 1.78dBi (max.) For LTE Band 4;

	-3.37dBi (max.) For LTE Band 5;				
	2.87dBi (max.) For LTE Band 7;				
	-7.38dBi (max.) For LTE Band 12;				
	-3.98dBi (max.) For LTE Band 13;				
	-4.62dBi (max.) For LTE Band 14;				
	-7.38dBi (max.) For LTE Band 17;				
	2.51dBi (max.) For LTE Band 25;				
	-3.37dBi (max.) For LTE Band 26;				
	2.87dBi (max.) For LTE Band 41;				
	2.57dBi (max.) For LTE Band 66;				
RFID(13.56MHz) (Optional)					
Frequency Range	13.56MHz				
Channel Number	1				
Modulation Type	ASK				
Antenna Description	Internal Antenna, 0dBi (Max.)				
GPS(RX)	Support				
Remark:The I24M01 model has 3 versions; Version A: With a scanning head (Manufacturer: ZEBRA); Version B: With a scanning head (Manufacturer: Newland)					

Version C: No scanning head;

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### 2.3. Equipment Under Test

### Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		

DC 7.7V

### 2.4. Short description of the Equipment under Test (EUT)

This is a mobile POS Device.

For more details, refer to the user's manual of the EUT.

### 2.5. EUT operation mode

The application provider specific test software to control sample in continuous TX and RX.

Antenna	Chain0 (ANT0)			Chain1 (ANT1)			Simultaneously
Bandwidth Mode	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz	/
IEEE 802.11a	V						
IEEE 802.11n	V						
IEEE 802.11ac	V	$\overline{\checkmark}$	$\overline{\mathbf{A}}$				

#### IEEE 802.11a/ac20/ac40/ac80/n20/n40:

UN	II-1	UN	III-1	UNII-1		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
36	5180	38	5190	42	5210	
40	5200	46	5230			
44	5220					
48	5240					

U-N	II-2A	U-N	II-2A	U-NI-2A		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
52	5260	54	5270	58	5290	
56	5280	62	5310			
60	5300					
64	5320					

U-N	I-2C	U-N	I-2C	U-NI-2C		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
100	5500	102	5510	106	5530	
104	5520	110	5550	122	5610	
108	5540	118	5590			
112	5560	126	5630			
116	5580	134	5670			
120	5600					
124	5620					
128	5640					
132	5660					
136	5680					
140	5700					

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U-	NI-3	U-	NI-3	U-NI-3			
Channel	Channel Frequency (MHz)				Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775		
153	5765	159	5795				
157	5785						
161	5805						
165	5825						

The EUT has been tested under operating condition.

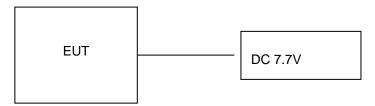
This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

AC main conducted emission pre-test voltage at both AC 120V/60Hz and AC 240V/60Hz, recorded worst case;

AC main conducted emission pre-test at charge from PC modes, recorded worst case;

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be IEEE 802.11ac VHT20 mode (HCH).

#### 2.6. Block Diagram of Test Setup



#### 2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-I24M01** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

#### 2.8. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (MTK mode) provided by application.

#### 2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPD-203A120167UF01		SDOC
	Swift2-Ultra-Dock	I24M0122		SDOC

#### 2.10. External I/O Cable

I/O Port Description	Quantity	Cable		
DC IN Port	1	1.2M, Unscreened Cable		

#### 2.11. Modifications

No modifications were implemented to meet testing criteria.

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### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

#### Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

#### 3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

#### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

#### 3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### 3.5. Test Description

	Applied Standard: FCC Part 15 Subpart E							
FCC Rules	Description of Test	Test Sample	Result	Remark				
/	On Time and Duty Cycle	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.407(a)	Maximum Conducted Output Power	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.407(a)	Power Spectral Density	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.407(a)	26dB&6dB Bandwidth and 99% Bandwidth	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.209, §15.407(b)	Radiated Emissions	GTS20250313007-2-1# GTS20250313007-2-2#	Compliant	Note 1				
§15.209, §15.407(b)	Conducted Spurious Emissions and Band Edges Test	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.209, §15.407(b)	Emissions at Restricted Band	GTS20250313007-2-1#	Compliant	Appendix D Appendix E Appendix F Appendix G				
§15.407(g)	Frequency Stability	GTS20250313007-2-1#	Compliant	Note 1				
§15.207(a)	AC Mians Line Conducted Emissions	GTS20250313007-2-2#	Compliant	Note 1				
§15.203 §15.407(h)	Antenna Requirements	GTS20250313007-2-1#	Compliant	Note 1				
§15.407 §2.1093	RF Exposure	/	Compliant	Note 2				

#### Remark:

- The measurement uncertainty is not included in the test result.
- 2.
- 3.
- NA = Not Applicable; NP = Not Performed

  Note 1 Test results inside test report;

  Note 2 Test results in other test report (SAR Report).

  We tested all test mode and recorded worst case in report

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Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Peak Conducted Output Power	802.11a	6 Mbps
Power Spectral Density 6dB Bandwidth 26dB Bandwidth Radiated Emission30M~1GHz& Radiated Emission 1GHz~10 <sup>th</sup> Harmonic	802.11ac20/ac40/ac80 802.11n HT20/40	MCS0
	802.11a	6 Mbps
Band Edge	802.11ac20/ac40/ac80 802.11n HT20/40	MCS0

## 3.6. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration	Calibration
				Date	Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2024/07/15	2025/07/14
LISN	R&S	ESH2-Z5	893606/008	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESPI3	101841-cd	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESCI7	101102	2024/07/15	2025/07/14
Spectrum Analyzer	Agilent	N9020A	MY48010425	2024/07/15	2025/07/14
Spectrum Analyzer	R&S	FSV40-N	101800	2024/07/15	2025/07/14
Vector Signal generator	Agilent	N5181A	MY49060502	2024/07/15	2025/07/14
Signal generator	Agilent	N5182A	3610AO1069	2024/07/15	2025/07/14
Climate Chamber	ESPEC	EL-10KA	A20120523	2024/07/15	2025/07/14
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2024/12/16	2025/12/15
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2024/07/15	2025/07/14
Bilog Antenna	Schwarzbeck	VULB9163	000976	2024/07/15	2025/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024/07/15	2025/07/14
Amplifier	SKET	LAPA_30M01G-32	SK2024010400 1	2025/01/21	2026/01/20
Amplifier	EMCI	EMC012645SE	980340	2025/01/21	2026/01/20
Amplifier	Schwarzbeck	BBV9179	9719-025	2025/01/21	2026/01/20
Temperature/Humidit y Meter	Gangxing	CTH-608	02	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2024/07/15	2025/07/14
Power Sensor	Agilent	U2021XA	MY5365004	2024/07/15	2025/07/14
Test Control Unit	Tonscend	JS0806-1	178060067	2024/07/15	2025/07/14
Automated filter bank	Tonscend	JS0806-F	19F8060177	2024/07/15	2025/07/14
Wireless Commnunication Tester	Rohde&Schwarz	CMW500	125408	2024/07/15	2025/07/14
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

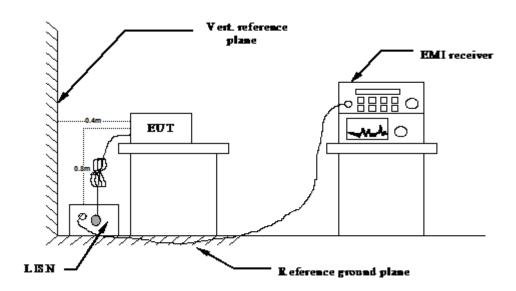
Note: The Cal.Interval was one year.

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### 4. TEST CONDITIONS AND RESULTS

#### 4.1. AC Power Conducted Emission

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received DC 9.0V power, the adapter received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### **AC Power Conducted Emission Limit**

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)			
Frequency range (IVII 12)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
* Decreases with the logarithm of the freque	ency.			

#### **DISTURBANCE Calculation**

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

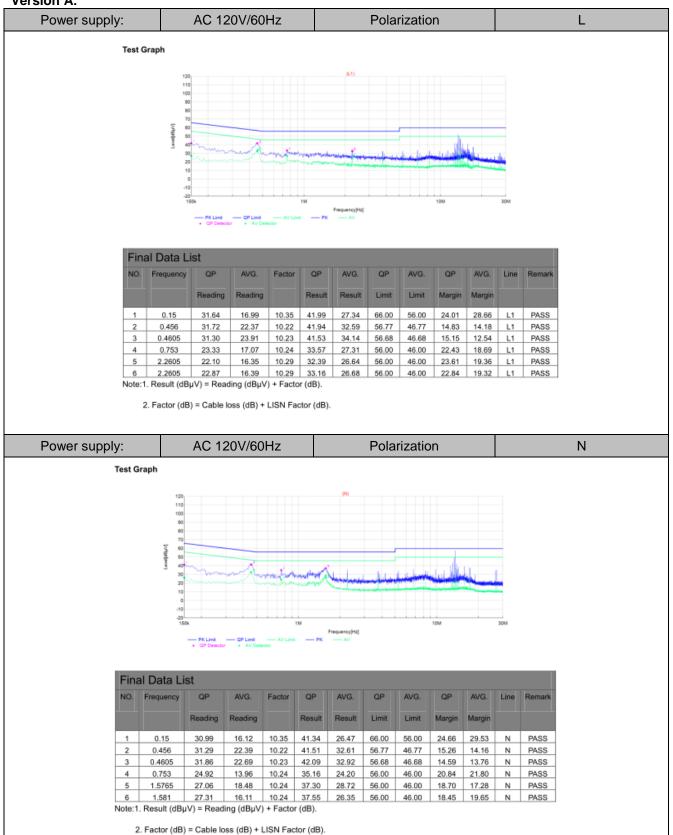
Report No.: GTS20250313007-2-04 Page 15 of 40

#### **TEST RESULTS**

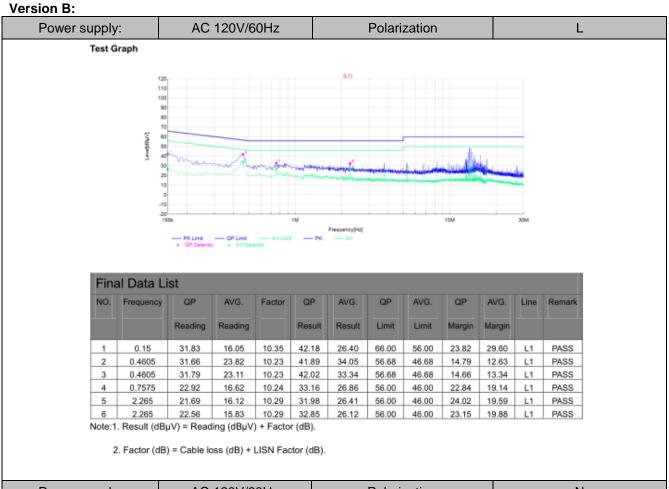
Remark: We measured Conducted Emission at all mode in AC 120V/60Hz, the worst case was recorded .

Temperature	<b>25</b> ℃	Humidity	60%		
Test Engineer	Evan Ouyang	Configurations	IEEE 802.11ac20 HCH		

#### **Version A:**

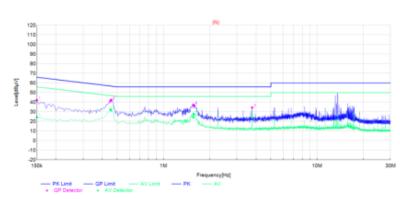


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Power supply: AC 120V/60Hz Ν Polarization

#### Test Graph

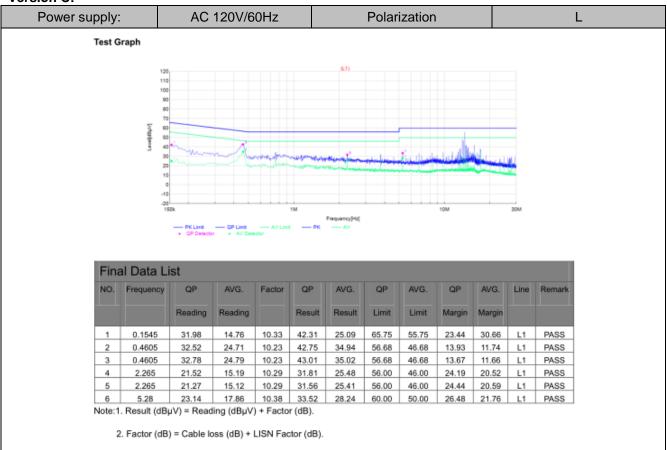


Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.15	31.76	14.01	10.35	42.11	24.36	66.00	56.00	23.89	31.64	N	PASS
2	0.4515	30.82	22.29	10.22	41.04	32.51	56.85	46.85	15.81	14.34	N	PASS
3	0.456	32.23	21.46	10.22	42.45	31.68	56.77	46.77	14.32	15.09	N	PASS
4	1.563	27.11	13.99	10.24	37.35	24.23	56.00	46.00	18.65	21.77	N	PASS
5	1.572	26.19	17.77	10.24	36.43	28.01	56.00	46.00	19.57	17.99	N	PASS
6	3.777	24.13	14.17	10.36	34.49	24.53	56.00	46.00	21.51	21.47	N	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

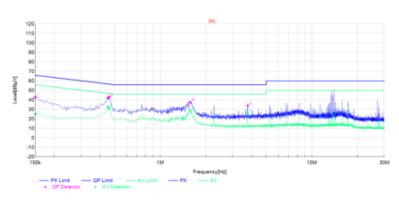
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

#### **Version C:**



Power supply: AC 120V/60Hz Polarization N

#### Test Graph



Fina	Final Data List											
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.15	32.54	14.62	10.35	42.89	24.97	66.00	56.00	23.11	31.03	N	PASS
2	0.4515	31.70	22.89	10.22	41.92	33.11	56.85	46.85	14.93	13.74	N	PASS
3	0.4605	33.00	20.87	10.23	43.23	31.10	56.68	46.68	13.45	15.58	N	PASS
4	1.572	27.49	18.70	10.24	37.73	28.94	56.00	46.00	18.27	17.06	N	PASS
5	1.5855	27.55	18.12	10.24	37.79	28.36	56.00	46.00	18.21	17.64	N	PASS
6	3.7725	23.76	16.07	10.36	34.12	26.43	56.00	46.00	21.88	19.57	N	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

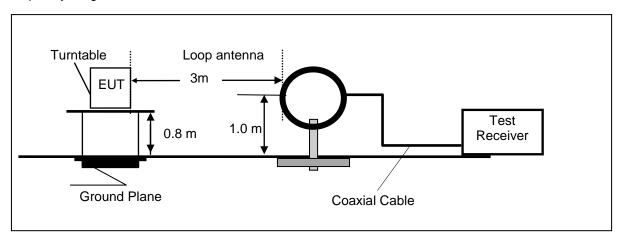
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

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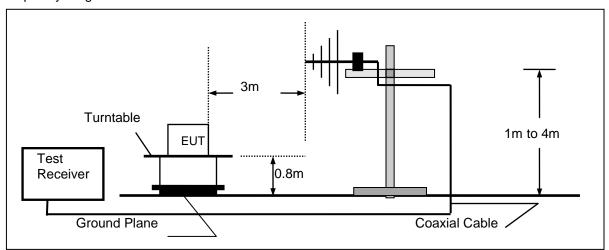
#### 4.2. Radiated Emission

### **TEST CONFIGURATION**

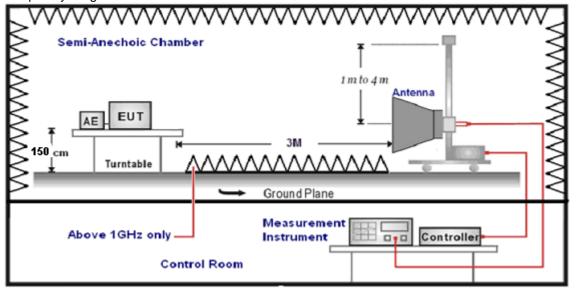
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz



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#### **TEST PROCEDURE**

- The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing above 1GHz
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. The EUT minimum operation frequency was 24MHz and maximum operation frequency was 5825MHz.so radiated emission test frequency band from 9KHz to 40GHz.

6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

#### **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

#### FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

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#### **RADIATION LIMIT**

According to §15.407 (b): Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)		
	5150-5250	-27	68.2		
	5250-5350	-27	68.2		
ſ	5470-5725	-27	682		
ſ	5725-5850	-27 (beyond 10MHz of the bandedge)	68.2		
	3723-3630	-17 (within 10 MHz of band edge)	78.2		

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

### **TEST RESULTS**

Remark: We measured Radiated Emission at all mode from 9KHz to 25GHz in AC 120V/60Hz and the worst case was recorded.

Temperature	23.4℃	Humidity	54.5%
Test Engineer	Evan Ouyang	Configurations	IEEE 802.11ac20 HCH

#### For 9 KHz~30MHz

Freq. (MHz)	•		Over Limit (dBuV)	Remark	
-	-	-	-	See Note	

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

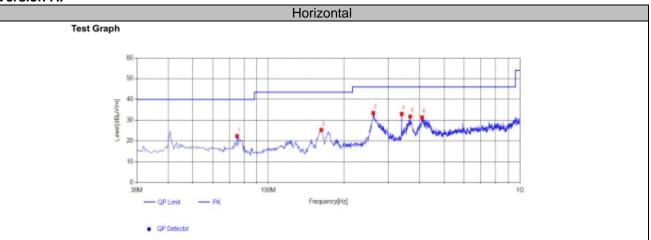
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

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#### For 30MHz-1GHz

#### Version A:



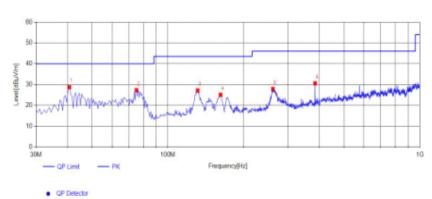
Sus	Suspected List											
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark	
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	ľ				
1	75.105	36.53	-14.18	22.35	40.00	17.65	100	169	PK	Horizonta	PASS	
2	162.405	38.38	-13.05	25.33	43.50	18.17	100	3	PK	Horizonta	PASS	
3	261.345	41.68	-8.22	33.46	46.00	12.54	100	323	PK	Horizonta	PASS	
4	338.945	39.49	-6.45	33.04	46.00	12.96	100	263	PK	Horizonta	PASS	
5	366.105	37.58	-5.84	31.74	46.00	14.26	100	283	PK	Horizonta	PASS	
6	408.3	36.36	-5.04	31.32	46.00	14.68	100	263	PK	Horizonta	PASS	

Note:1. Result  $(dB\mu V/m) = Reading(dB\mu V/m) + Factor (dB)$ .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

#### Vertical





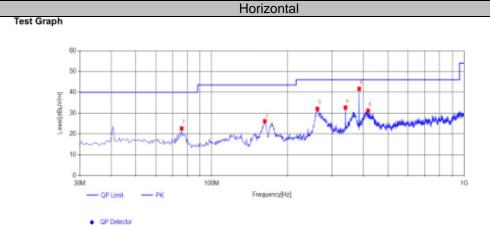
Sus	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	,,	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	ľ			
1	40.67	40.58	-11.85	28.73	40.00	11.27	100	275	PK	Vertical	PASS
2	75.105	41.46	-14.18	27.28	40.00	12.72	100	321	PK	Vertical	PASS
3	131.365	40.89	-13.72	27.17	43.50	16.33	100	62	PK	Vertical	PASS
4	161.92	38.18	-13.08	25.10	43.50	18.40	100	39	PK	Vertical	PASS
5	261.345	36.10	-8.22	27.88	46.00	18.12	100	298	PK	Vertical	PASS
6	384.05	36.17	-5.58	30.59	46.00	15.41	100	255	PK	Vertical	PASS

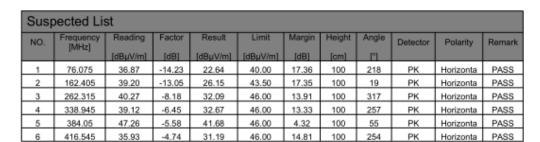
Note:1. Result (dB $\mu$ V/m) = Reading(dB $\mu$ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

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#### **Version B:**



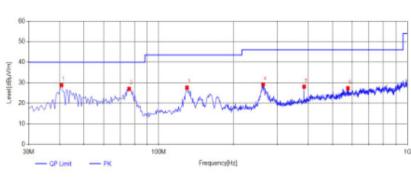


Note:1. Result  $(dB\mu V/m) = Reading(dB\mu V/m) + Factor (dB)$ .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

#### Vertical

Test	Gra	р	h
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Sus	Suspected List										
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	ľ			
1	40.67	40.67	-11.85	28.82	40.00	11.18	100	241	PK	Vertical	PASS
2	76.075	41.24	-14.23	27.01	40.00	12.99	100	254	PK	Vertical	PASS
3	129.91	41.21	-13.58	27.63	43.50	15.87	100	301	PK	Vertical	PASS
4	262.8	37.25	-8.17	29.08	46.00	16.92	100	298	PK	Vertical	PASS
5	384.05	33.68	-5.58	28.10	46.00	17.90	100	9	PK	Vertical	PASS
6	576.11	28.24	-0.91	27.33	46.00	18.67	100	198	PK	Vertical	PASS

Note:1. Result (dB $\mu$ V/m) = Reading(dB $\mu$ V/m) + Factor (dB) .

QP Detector

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

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### **Version C:**



QP Detector

Sus	pected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	()	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	40.67	34.45	-11.85	22.60	40.00	17.40	100	20	PK	Horizonta	PASS
2	77.53	36.68	-14.30	22.38	40.00	17.62	100	225	PK	Horizonta	PASS
3	162.89	38.79	-13.02	25.77	43.50	17.73	100	49	PK	Horizonta	PASS
4	262.8	40.61	-8.17	32.44	46.00	13.56	100	312	PK	Horizonta	PASS
5	338.945	38.54	-6.45	32.09	46.00	13.91	100	255	PK	Horizonta	PASS
6	411.695	36.68	-4.91	31.77	46.00	14.23	100	251	PK	Horizonta	PASS

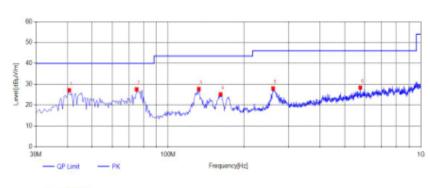
Frequency[Hz]

Note:1. Result (dB $\mu$ V/m) = Reading(dB $\mu$ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

#### Vertical





QP Detector

Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	(	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	ľ			
1	40.67	38.96	-11.85	27.11	40.00	12.89	100	211	PK	Vertical	PASS
2	75.105	41.76	-14.18	27.58	40.00	12.42	100	294	PK	Vertical	PASS
3	132.335	41.54	-13.82	27.72	43.50	15.78	100	314	PK	Vertical	PASS
4	161.435	38.32	-13.12	25.20	43.50	18.30	100	158	PK	Vertical	PASS
5	260.375	36.26	-8.26	28.00	46.00	18.00	100	211	PK	Vertical	PASS
6	576.11	29.31	-0.91	28.40	46.00	17.60	100	204	PK	Vertical	PASS

Note:1. Result (dB $\mu$ V/m) = Reading(dB $\mu$ V/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

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For 1GHz to 40GHz

5150-5250MHz:

IEEE 802.11a (Worst Case)

### 802.11a Mode\_Channel 36 \_5180 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10360	39.48	38.55	33.13	11.26	56.16	68.20	-12.04	Peak	Horizontal
1	10360	31.85	38.55	33.13	11.26	48.53	54.00	-5.47	AV	Horizontal
1	10360	41.18	38.55	33.13	11.26	57.86	68.20	-10.34	Peak	Vertical
1	10360	28.15	38.55	33.13	11.26	44.83	54.00	-9.17	AV	Vertical

#### 802.11a Mode\_Channel 40 \_ 5200 MHz

Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	•	Level	Factor	Factor	Loss	Level	Line		Detector	Polarization
(iviaik)	(MHz)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	10400	39.97	38.55	33.13	11.26	56.65	68.20	-11.55	Peak	Horizontal
1	10400	30.40	38.55	33.13	11.26	47.08	54.00	-6.92	AV	Horizontal
1	10400	40.28	38.55	33.13	11.26	56.96	68.20	-11.24	Peak	Vertical
1	10400	28.10	38.55	33.13	11.26	44.78	54.00	-9.22	AV	Vertical

#### 802.11a Mode\_ Channel 48\_ 5240 MHz

Item	Erog	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	Freq (MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)	Detector	Polarization
(IVIAIK)	(1711-12)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(ub)		
1	10480	39.73	38.55	33.13	11.26	56.41	68.20	-11.79	Peak	Horizontal
1	10480	31.73	38.55	33.13	11.26	48.41	54.00	-5.59	AV	Horizontal
1	10480	40.95	38.55	33.13	11.26	57.63	68.20	-10.57	Peak	Vertical
1	10480	28.76	38.55	33.13	11.26	45.44	54.00	-8.56	AV	Vertical

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#### 5260-5320MHz:

### IEEE 802.11a (Worst Case)

### 802.11a Mode\_Channel 52 \_5260 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	10520	39.06	38.55	33.13	11.26	55.74	68.20	-12.46	Peak	Horizontal
1	10520	31.54	38.55	33.13	11.26	48.22	54.00	-5.78	AV	Horizontal
1	10520	40.37	38.55	33.13	11.26	57.05	68.20	-11.15	Peak	Vertical
1	10520	28.38	38.55	33.13	11.26	45.06	54.00	-8.94	AV	Vertical

### 802.11a Mode\_Channel 56 \_ 5280 MHz

Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)	Detector	Polarization
(IVIAIK)	(1011-12)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(ub)		
1	10560	40.97	38.55	33.13	11.26	57.65	68.20	-10.55	Peak	Horizontal
1	10560	30.73	38.55	33.13	11.26	47.41	54.00	-6.59	AV	Horizontal
1	10560	41.98	38.55	33.13	11.26	58.66	68.20	-9.54	Peak	Vertical
1	10560	28.50	38.55	33.13	11.26	45.18	54.00	-8.82	AV	Vertical

#### 802.11a Mode\_ Channel 64\_ 5320 MHz

_							_			
Item	Frog	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	Freq (MHz)	Level	Factor	Factor	Loss	Level	Line		Detector	Polarization
(iviaik)	(IVITIZ)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	10640	40.85	38.55	33.13	11.26	57.53	68.20	-10.67	Peak	Horizontal
1	10640	30.18	38.55	33.13	11.26	46.86	54.00	-7.14	AV	Horizontal
1	10640	40.98	38.55	33.13	11.26	57.66	68.20	-10.54	Peak	Vertical
1	10640	30.00	38.55	33.13	11.26	46.68	54.00	-7.32	AV	Vertical

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#### 5500-5700MHz:

### IEEE 802.11a (Worst Case)

### 802.11a Mode\_Channel 100 \_5500 MHz

Item (Mark)	Freq (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss (dB)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector	Polarization
1	11000	39.06	38.55	33.13	11.26	55.74	68.20	-12.46	Peak	Horizontal
1	11000	30.43	38.55	33.13	11.26	47.11	54.00	-6.89	AV	Horizontal
1	11000	40.46	38.55	33.13	11.26	57.14	68.20	-11.06	Peak	Vertical
1	11000	28.99	38.55	33.13	11.26	45.67	54.00	-8.33	AV	Vertical

### 802.11a Mode\_Channel 120 \_ 5600 MHz

Item (Mark)	Freq (MHz)	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Margin (dB)	Detector	Polarization
1	` ′	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	, ,	Dools	l la rimantal
I	11200	40.16	38.55	33.13	11.26	56.84	68.20	-11.36	Peak	Horizontal
1	11200	30.36	38.55	33.13	11.26	47.04	54.00	-6.96	AV	Horizontal
1	11200	40.22	38.55	33.13	11.26	56.90	68.20	-11.30	Peak	Vertical
1	11200	28.24	38.55	33.13	11.26	44.92	54.00	-9.08	AV	Vertical

#### 802.11a Mode Channel 140 5700 MHz

						<u> </u>				
Item	Erog	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	Freq (MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)	Detector	Polarization
(iviaik)	(IVITZ)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(ub)		
1	11400	39.55	38.55	33.13	11.26	56.23	68.20	-11.97	Peak	Horizontal
1	11400	31.08	38.55	33.13	11.26	47.76	54.00	-6.24	AV	Horizontal
1	11400	41.34	38.55	33.13	11.26	58.02	68.20	-10.18	Peak	Vertical
1	11400	29.23	38.55	33.13	11.26	45.91	54.00	-8.09	AV	Vertical

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5725-5850MHz:

#### IEEE 802.11a (Worst Case)

#### 802.11a Mode\_Channel 149 \_5745 MHz

Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Morgin		
(Mark)	(MHz)	Level	Factor	Factor	Loss	Level	Line	Margin (dB)	Detector	Polarization
(iviaik)	(1011-12)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(ub)		
1	11490	39.72	38.55	33.13	11.26	56.40	68.20	-11.80	Peak	Horizontal
1	11490	30.76	38.55	33.13	11.26	47.44	54.00	-6.56	AV	Horizontal
1	11490	40.60	38.55	33.13	11.26	57.28	68.20	-10.92	Peak	Vertical
1	11490	29.41	38.55	33.13	11.26	46.09	54.00	-7.91	AV	Vertical

#### 802.11a Mode\_Channel 157 \_ 5785 MHz

Item	Frog	Read	Antenna	PRM	Cable	Result	Limit	Margin		
	Freq	Level	Factor	Factor	Loss	Level	Line	•	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	11570	39.59	38.55	33.13	11.26	56.27	68.20	-11.93	Peak	Horizontal
1	11570	30.26	38.55	33.13	11.26	46.94	54.00	-7.06	AV	Horizontal
1	11570	40.15	38.55	33.13	11.26	56.83	68.20	-11.37	Peak	Vertical
1	11570	29.36	38.55	33.13	11.26	46.04	54.00	-7.96	AV	Vertical

#### 802.11a Mode\_ Channel 165\_ 5825 MHz

Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Margin		
(Mark)	(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)	Detector	Polarization
(Wark)	(1011-12)	(dBµV)	(dB/m)	dB	(dB)	(dBµV/m)	(dBµV/m)	(ub)		
1	11650	40.09	38.55	33.13	11.26	56.77	68.20	-11.43	Peak	Horizontal
1	11650	30.20	38.55	33.13	11.26	46.88	54.00	-7.12	AV	Horizontal
1	11650	40.21	38.55	33.13	11.26	56.89	68.20	-11.31	Peak	Vertical
1	11650	29.68	38.55	33.13	11.26	46.36	54.00	-7.64	AV	Vertical

#### **REMARKS:**

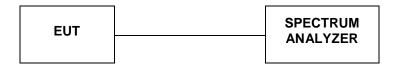
- 1. Result Level = Read Level + Antenna Factor + Cable loss PRM Factor.
- 2. Margin = Result Level Limit
- 3. The other emission levels were very low against the limit.
- 4. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak;

NOTE: All the modes have been tested and recorded worst mode in the report(Version A).

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#### 4.3. Duty Cycle

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Duty Cycle (x), Transmission Duration (T):

- a. A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal
- b. The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average. The zerospan measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in section II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

#### **TEST RESULTS**

For reporting purpose only.

Please refer to Appendix D.3.

Please refer to Appendix E.3.

Please refer to Appendix F.3.

Please refer to Appendix G.3.

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#### 4.4. Maximum Average Output Power

#### **TEST CONFIGURATION**

EUT	Power Sensor

#### **TEST PROCEDURE**

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Measurement using a Power Meter (PM):

- Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied
  - 1. The EUT is configured to transmit continuously or to transmit with a constant duty cycle
  - 2. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
  - 3. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B
- c. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

Adjust the measurement in dBm by adding  $10 \log(1/x)$  where x is the duty cycle (e.g.,  $10 \log(1/0.25)$  if the duty cycle is 25 percent).

#### <u>LIMIT</u>

According to §15.407(a): The maximum output power should be not exceed follow:

Fixed:1 Watt (30dBm)		
,		
Mobile and portable: 250mW (24dBm)		
250mW (24dBm)		
250mW (24dBm)		
1 Watt (30dBm)		

Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)

#### **TEST RESULTS**

For reporting purpose only.

Please refer to Appendix D.4.

Please refer to Appendix E.4.

Please refer to Appendix F.4.

Please refer to Appendix G.4.

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#### 4.5. Power Spectral Density

TEST CONFIGU	<u>IRATION</u>	
	EUT	SPECTRUM ANALYZER
<b>TEST PROCED</b>	URE	

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01: The rules requires "maximum power spectral density" measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission

- a. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- b. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- c. Make the following adjustments to the peak value of the spectrum, if applicable:
  - 1. If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.
  - 2. ) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- d. The result is the Maximum PSD over 1 MHz reference bandwidth.
- e. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
  - 1. Set RBW ≥ 1/T, where T is defined in section II.B.l.a).
  - 2. Set VBW ≥ 3 RBW.
  - 3. 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.
  - 4. If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
  - 5. Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

f. Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10 log(1/0.25) if the duty cycle is 25 percent).

#### <u>LIMIT</u>

According to §15.407(a): The maximum output power should be not exceed follow:

Frequency Range (MHz)	Limit		
5150-5250	Other then Mobile and portable:17dBm/MHz		
5150-5250	Mobile and portable:11dBm/MHz		
5250-5350	11dBm/MHz		
5470-5725	11dBm/MHz		
5725-5850	30dBm/500kHz		

#### **TEST RESULTS**

For reporting purpose only.

Please refer to Appendix D.5.

Please refer to Appendix E.5.

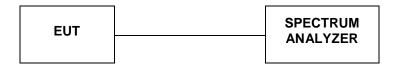
Please refer to Appendix F.5.

Please refer to Appendix G.5.

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#### 4.6. 99% and 6dB Bandwidth

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 for one of the following procedures may be used for section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a. Set RBW = 100 kHz.
- b. Set the video bandwidth (VBW) ≥ 3 × RBW
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = auto couple.
- f. Allow the trace to stabilize
- g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

#### LIMIT

For Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz

### **TEST RESULTS**

For reporting purpose only.

Please refer to Appendix G.1.

Please refer to Appendix G.2.

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#### 4.7. 99% and 26dBc Bandwidth

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 for one of the following procedures may be used for Emission Bandwidth (EBW) measurement:

- a. Set RBW = 220 kHz/430 kHz /820 kHz (approximately 1% of the emission bandwidth).
- b. Set the video bandwidth (VBW) = 3\* RBW)
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = auto couple.
- f. Allow the trace to stabilize
- g. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

#### LIMIT

No Limits for 26dBc Bandwith

#### **TEST RESULTS**

For reporting purpose only.

Please refer to Appendix D.1.

Please refer to Appendix D.2.

Please refer to Appendix E.1.

Please refer to Appendix E.2.

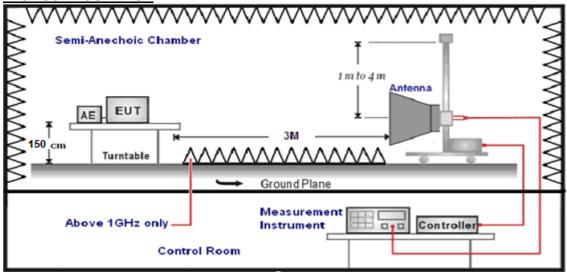
Please refer to Appendix F.1.

Please refer to Appendix F.2.

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#### 4.8. Conducted Spurious Emissions and Band Edge Compliance

#### **TEST CONFIGURATION**



#### <u>LIMIT</u>

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.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

According to §15.407 (b): Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 (beyond 10MHz of the bandedge)	68.2
3723-3630	-17 (within 10 MHz of band edge)	78.2

#### **TEST PROCEDURE**

- 1. The EUT was placed on a turn table which is 1.5m above 1GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from  $0^{\circ}$  to  $360^{\circ}$  to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed..
- 5. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
1GHz-18GHz	Double Ridged Horn Antenna	3

6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-18GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

#### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

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#### FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

#### **TEST RESULTS**

Remark:For radiated bandedge We measured at both mode, recorded worst case in antenna 0's 802.11 ac20 mode:

#### For Conducted at Restricted Band Measurement

For reporting purpose only.

Please refer to Appendix D.8.

Please refer to Appendix E.8.

Please refer to Appendix F.8.

Please refer to Appendix G.8.

#### For Conducted Band edge Measurement

For reporting purpose only.

Please refer to Appendix D.6.

Please refer to Appendix E.6.

Please refer to Appendix F.6.

Please refer to Appendix G.6.

#### **For Conducted Spurious Emissions Measurement**

For reporting purpose only.

Please refer to Appendix D.7.

Please refer to Appendix E.7.

Please refer to Appendix F.7.

Please refer to Appendix G.7.

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#### 4.9. Frequency Stability

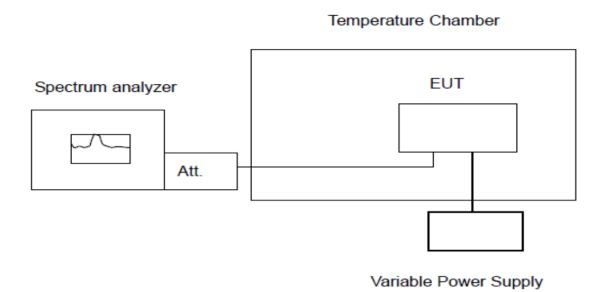
#### Standard Applicable

According to FCC §15.407(g) "Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user manual."

According to FCC §2.1055(a) "The frequency stability shall be measured with variation of ambient temperature as follows:"

- (1) From -30° to +50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (2) From -20° to + 50° centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.
- (3) From  $0^{\circ}$  to +  $50^{\circ}$  centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

#### **Test Configuration**



#### **Test Procedure**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum anzlyer via feed through attenators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low engouh to obtain the desired frequency resoluation and measure EUT 20 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure wuth 10 degree increased per stage until the highest temperature of +50 degree reached.

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### **Test Results**

**PASS** 

#### Remark:

1. Measured all conditions and recorded worst case.

IEEE 802.11a Mode / 5180 - 5240 MHz / 5180 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5171.656595	5150 – 5250	PASS
20	DC 6.9V	5171.572419	5150 – 5250	PASS
50	DC 7.7V	5171.694542	5150 – 5250	PASS
40	DC 7.7V	5171.578438	5150 – 5250	PASS
30	DC 7.7V	5171.613539	5150 – 5250	PASS
20	DC 7.7V	5171.522000	5150 – 5250	PASS
10	DC 7.7V	5171.665674	5150 – 5250	PASS
0	DC 7.7V	5171.556839	5150 – 5250	PASS
-10	DC 7.7V	5171.607462	5150 – 5250	PASS
-20	DC 7.7V	5171.626009	5150 – 5250	PASS
-30	DC 7.7V	5171.589496	5150 – 5250	PASS

IEEE 802.11a Mode / 5180 - 5240 MHz / 5240 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5248.630597	5150 – 5250	PASS
20	DC 6.9V	5248.689974	5150 – 5250	PASS
50	DC 7.7V	5248.672159	5150 – 5250	PASS
40	DC 7.7V	5248.693804	5150 – 5250	PASS
30	DC 7.7V	5248.637006	5150 – 5250	PASS
20	DC 7.7V	5248.522433	5150 – 5250	PASS
10	DC 7.7V	5248.552318	5150 – 5250	PASS
0	DC 7.7V	5248.518246	5150 – 5250	PASS
-10	DC 7.7V	5248.510878	5150 – 5250	PASS
-20	DC 7.7V	5248.661095	5150 – 5250	PASS
-30	DC 7.7V	5248.627208	5150 – 5250	PASS

IEEE 802.11a Mode / 5260 - 5320 MHz / 5260 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5251.596154	5250 - 5350	PASS
20	DC 6.9V	5251.531302	5250 – 5350	PASS
50	DC 7.7V	5251.538437	5250 – 5350	PASS
40	DC 7.7V	5251.501608	5250 – 5350	PASS
30	DC 7.7V	5251.531716	5250 – 5350	PASS
20	DC 7.7V	5251.535338	5250 – 5350	PASS
10	DC 7.7V	5251.638586	5250 – 5350	PASS
0	DC 7.7V	5251.619326	5250 – 5350	PASS
-10	DC 7.7V	5251.635981	5250 – 5350	PASS
-20	DC 7.7V	5251.633447	5250 – 5350	PASS
-30	DC 7.7V	5251.565979	5250 - 5350	PASS

IEEE 802.11a Mode / 5260 - 5320 MHz / 5320 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5328.518666	5250 – 5350	PASS
20	DC 6.9V	5328.617942	5250 – 5350	PASS
50	DC 7.7V	5328.588274	5250 – 5350	PASS
40	DC 7.7V	5328.553229	5250 – 5350	PASS
30	DC 7.7V	5328.667167	5250 – 5350	PASS
20	DC 7.7V	5328.696547	5250 – 5350	PASS
10	DC 7.7V	5328.596657	5250 – 5350	PASS
0	DC 7.7V	5328.663766	5250 – 5350	PASS
-10	DC 7.7V	5328.526209	5250 – 5350	PASS
-20	DC 7.7V	5328.665337	5250 – 5350	PASS
-30	DC 7.7V	5328.552280	5250 – 5350	PASS

IEEE 802.11a Mode / 5500 - 5700 MHz / 5500 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5491.594518	5470 – 5725	PASS
20	DC 6.9V	5491.532654	5470 – 5725	PASS
50	DC 7.7V	5491.508713	5470 – 5725	PASS
40	DC 7.7V	5491.527023	5470 – 5725	PASS
30	DC 7.7V	5491.511224	5470 – 5725	PASS
20	DC 7.7V	5491.632469	5470 – 5725	PASS
10	DC 7.7V	5491.651208	5470 – 5725	PASS
0	DC 7.7V	5491.677739	5470 – 5725	PASS
-10	DC 7.7V	5491.546247	5470 – 5725	PASS
-20	DC 7.7V	5491.626418	5470 – 5725	PASS
-30	DC 7.7V	5491.624975	5470 – 5725	PASS

IEEE 802.11a Mode / 5500 - 5700 MHz / 5700 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5708.547602	5470 – 5725	PASS
20	DC 6.9V	5708.619769	5470 – 5725	PASS
50	DC 7.7V	5708.649451	5470 – 5725	PASS
40	DC 7.7V	5708.672376	5470 – 5725	PASS
30	DC 7.7V	5708.633112	5470 – 5725	PASS
20	DC 7.7V	5708.653946	5470 – 5725	PASS
10	DC 7.7V	5708.569802	5470 – 5725	PASS
0	DC 7.7V	5708.529571	5470 – 5725	PASS
-10	DC 7.7V	5708.696371	5470 – 5725	PASS
-20	DC 7.7V	5708.628217	5470 – 5725	PASS
-30	DC 7.7V	5708.531504	5470 – 5725	PASS

IEEE 802.11a Mode / 5745 - 5825 MHz / 5745 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5736.698339	5725 – 5850	PASS
20	DC 6.9V	5736.634357	5725 – 5850	PASS
50	DC 7.7V	5736.657481	5725 – 5850	PASS
40	DC 7.7V	5736.582752	5725 – 5850	PASS
30	DC 7.7V	5736.518779	5725 – 5850	PASS
20	DC 7.7V	5736.548282	5725 – 5850	PASS
10	DC 7.7V	5736.603309	5725 – 5850	PASS
0	DC 7.7V	5736.639490	5725 – 5850	PASS
-10	DC 7.7V	5736.640830	5725 – 5850	PASS
-20	DC 7.7V	5736.631343	5725 – 5850	PASS
-30	DC 7.7V	5736.564953	5725 – 5850	PASS

IEEE 802.11a Mode / 5745 - 5825 MHz / 5825 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 8.4V	5833.607628	5725 – 5850	PASS
20	DC 6.9V	5833.674872	5725 – 5850	PASS
50	DC 7.7V	5833.661685	5725 – 5850	PASS
40	DC 7.7V	5833.559949	5725 – 5850	PASS
30	DC 7.7V	5833.589362	5725 – 5850	PASS
20	DC 7.7V	5833.582243	5725 – 5850	PASS
10	DC 7.7V	5833.621944	5725 – 5850	PASS
0	DC 7.7V	5833.619360	5725 – 5850	PASS
-10	DC 7.7V	5833.647780	5725 – 5850	PASS
-20	DC 7.7V	5833.608390	5725 – 5850	PASS
-30	DC 7.7V	5833.607320	5725 – 5850	PASS

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#### 4.10. Antenna Requirement

#### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### **Antenna Information**

The antenna is Internal Aantenna, through the buckle stretched out, The directional gains of antenna used for transmitting is 2.00dBi.

Reference to the Test Report: GTS20250313007-2-01.

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## 5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. GTS20250313007-2-01.

# 6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. GTS20250313007-2-01.
End of Report