

## FCC 47 CFR Part 15.407

### **TEST REPORT**

For

#### Treat Arcade

#### MODEL NUMBER: P301201, P301XXX ("X" represent "0-9" or "A-Z")

#### **REPORT NUMBER: E04A24080488F00701**

#### ISSUE DATE: October 11, 2024

### FCC ID: Z63-P301201

Prepared for

### SHENZHEN AONI ELECTRONIC CO., LTD.

# No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An streets, Bao'an District, ShenZhen, China

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products. This report shall not be reproduced, except in full, without the written approval of Guangdong Global Testing Technology Co., Ltd.

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	October 11, 2024	Initial Issue	

## **Summary of Test Results**

Test Item	Clause	Limit/Requirement	Result
Duty Cycle	ANSI C63.10-2013, Clause 12.2	None; for reporting purposes only.	Pass
26 dB emission bandwidth	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a)(2)(5)	Pass
6 dB bandwidth	KDB 789033 D02 v02r01 Section C.2	FCC Part 15.407 (e)	Pass
Maximum conducted output power	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC Part 15.407 (a)(1)(2)(3)	Pass
Peak Power Spectral Density	KDB 789033 D02 v02r01 Section F	FCC Part 15.407 (a)(1)(2)(3)	Pass
Radiated Emissions and Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC Part 15.407 (b)(1)(2)(3)(4)(6), FCC Part 15.209/205	Pass
FREQUENCY STABILITY		FCC 15.407 (g),RSS-247 Issue 2 Clause6	Pass
Dynamic Frequency Selection (Slave)	KDB 905462 D03 Client Without DFS New Rules v01r02	FCC Part 15.407 (h)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2.	FCC Part 15.407 (b)(6), FCC Part 15.207	Pass
Antenna Requirement	N/A	FCC Part 15.203, FCC Part 15.407(a)(1) (2)	Complianc e

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15.407> when <Accuracy Method> decision rule is applied.

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## **1. ATTESTATION OF TEST RESULTS**

#### **Applicant Information**

Company Name:	SHENZHEN AONI ELECTRONIC CO., LTD.
Address:	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An streets, Bao'an District, ShenZhen, China

#### **Manufacturer Information**

Company Name:	SHENZHEN AONI ELECTRONIC CO., LTD.
Address:	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An
	streets. Bao'an District. ShenZhen. China

#### **EUT Information**

Product Description:	Treat Arcade
Model:	P301201
Series Model:	P301XXX ("X" represent "0-9" or "A-Z")
Brand:	/
Sample Received Date:	August 19, 2024
Sample Status:	Normal
Sample ID:	A24080488 007
Date of Tested:	August 19, 2024 to September 11, 2024

APPLICABLE STANDARDS		
STANDARD TEST RESULTS		
FCC 47 CFR Part 15.407	Pass	

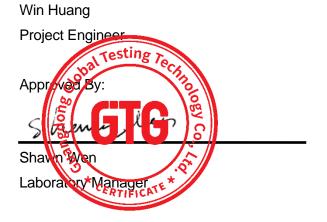
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Alan He Laboratory Leader



## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15.407

## 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 6947.01)
	Guangdong Global Testing Technology Co., Ltd.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1343)
	Guangdong Global Testing Technology Co., Ltd.
	has been recognized to perform compliance testing on equipment
Accreditation Certificate	subject to Supplier's Declaration of Conformity (SDoC) and
	Certification rules
	ISED (Company No.: 30714)
	Guangdong Global Testing Technology Co., Ltd.
	has been registered and fully described in a report filed with ISED.
	The Company Number is 30714 and the test lab Conformity
	Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

## 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
Emission Bandwidth	1.96	±9.0 PPM
Conduct Output Power	1.96	± 1.12 dB
Power Spectral Density	1.96	± 2.1 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB 26.5 GHz-40 GHz: ± 2.6 dB
Frequency Stability	1.96	±9.0 PPM
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Frequency Range	k	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the $95\%$ confidence level using a coverage factor of k=2.			

## 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

EUT Name		Treat Arcade	
Model		P301201	
Series Model		P301XXX ("X" represent "0-9" or "A-Z")	
Model Difference		Note: All models are identical except model name.	
Hardware Version		V1.5	
Software Version		V1.0.3	
Ratings		Input: 5V-2A	
	AC	100-240V~ 50/60Hz 0.35A Max	
Power Supply	DC	5V	

5150 MHz to 5250 MHz (U-NII-1) 5250 MHz to 5350 MHz (U-NII-2A) 5470 MHz to 5725 MHz (U-NII-2C) 5725 MHz to 5850 MHz (U-NII-3)
5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz
IEEE 802.11a/n
Not Support
Slave without radar Interference detection function
IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11a/n-HT20: 20 MHz
IEEE 802.11a: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7
5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20 5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20 5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20 5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20
5180 MHz to 5240 MHz: 13.17 dBm 5260 MHz to 5320 MHz: 13.50 dBm 5500 MHz to 5700 MHz: 13.67 dBm 5745 MHz to 5825 MHz: 13.50 dBm
Integral Antenna
6.10 dBi
5 Vdc
SecureCRT

	The Antenna Gain was provided by customer, and this
Note:	information may affect the validity of the results, customer
	should be responsible for this.

## 5.2. CHANNEL LIST

UNI	I-1	UN	II-1	UNII-1	
(For Bandwid	th=20MHz)	Iz) (For Bandwidth=40MHz) (For Bandwidth=8		dth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180				
40	5200				
44	5220				
48	5240				

UNII	-2A	2A UNII-2A UNII-2A		I-2A	
(For Bandwidth=20MHz)		(For Bandwi	dth=40MHz)	(For Bandwi	dth=80MHz)
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260				
56	5280				
60	5300				
64	5320				

UNII (For Bandwic			I-2C dth=40MHz)	UNI (For Bandwi	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500				
104	5520				
108	5540				
112	5560				
116	5580				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNI (For Bandwid		UNII-3 (For Bandwidth=40MHz)		UN (For Bandwi	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

## 5.3. MAXIMUM EIRP

# <u>UNII-1 BAND</u> IEEE Std. 802.11 Frequency (MHz) Maximum Conducted Power (dBm) Max EIRP (dBm) a 5150 ~ 5250 13.17 / n HT20 5150 ~ 5250 11.33 /

#### UNII-2A BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
а	5250 5250	13.50	/
n HT20	5250 ~ 5350	11.83	/

#### UNII-2C BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
а	E470 E70E	13.67	/
n HT20	5470 ~ 5725	11.99	/

#### UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
а		13.50	/
n HT20	5725 ~ 5850	11.62	/

## 5.4. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter		
Test Software	SecureCRT	

#### UNII-1

Mode	Rate	Channel	Soft set value
Mode	Nate		ANT 1
		36	14
11a	6M	40	14
		48	14
		36	12
11n HT20	MCS0	40	12
		48	12

#### UNII-2A

Mada	Dete	Channel	Soft set value		
Mode	Rate	Channel	ANT 1		
		52	14		
11a	6M	56	14		
		64	14		
11n HT20	MCS0	52	12		

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56	12
64	12

UNII-2C					
Mode	Rate	Channel	Soft set value		
Mode	Nale	Charmer	ANT 1		
		100	14		
11a	6M	116	14		
		140	14		
		100	12		
11n HT20	MCS0	116	12		
		140	12		

#### UNII-3

Mada	Dete	Channel	Soft set value		
Mode	Rate	Channel	ANT 1		
		149	14		
11a	6M	157	14		
		165	14		
		149	12		
11n HT20	MCS0	157	12		
		165	12		

## THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps 802.11n HT20 mode: MCS0

### 5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	Integral	6.10

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	⊠TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT20	⊠TX, RX	ANT 1 can be used as transmitting/receiving antenna.

Note:

## 5.6. EUT ACCESSORY

	Adapter			
Model No.:	KA12C-0502000US			
Input:	100-240V~ 50/60Hz 0.35A Max			
Output:	5V 2000mA			
AC Cable:	/			
DC Cable:	1.5 Meter Unshielded without ferrite			

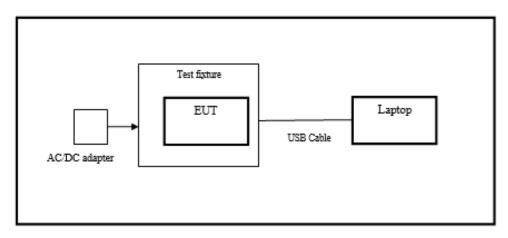
## 5.7. SUPPORT UNITS FOR SYSTEM TEST

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
E-1	Laptop	Lenovo	Thinkpad T14	PF-3EAKYR	GTG Support

## 5.8. SETUP DIAGRAM

Radiated emissions & AC Power Line Conducted Emission:



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

	Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2023/09/18	2024/09/17	
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2023/09/18	2024/09/17	
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2023/09/18	2024/09/17	
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/09/18	2024/09/17	
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2023/09/18	2024/09/17	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/09/18	2024/09/17	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2023/09/18	2024/09/17	
temperature humidity chamber	Espec	SH-241	SH-241-2014	2023/09/18	2024/09/17	
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A	

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2023/09/18	2024/09/17
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2023/09/18	2024/09/17

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Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2023/09/18	2024/09/17
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/09/18	2024/09/17
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

## 7. ANTENNA PORT TEST RESULTS

## 7.1. DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.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  $\geq$  EBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in 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  $\leq$  16.7 microseconds.)

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	22.8℃	Relative Humidity	54%
Atmosphere Pressure	101kPa		

#### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.2. 26 DB EMISSION BANDWIDTH

#### <u>LIMITS</u>

CFR 47 FCC Part15, Subpart E			
Test Item Limit Frequency Range (MHz)			
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250	
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350	
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725	

#### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
IR R WV	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW.
IV BW	For 6 dB Bandwidth: ≥ 3*RBW For 26 dB Bandwidth: >3*RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and 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 6/26 dB relative to the maximum level measured in the fundamental emission.

#### Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz

FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = 5725-5710.16=14.84 MHz

#### Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

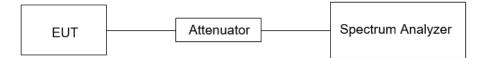
For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz FL: 5711.76 MHz FH: 5728.2 MHz Turning Frequency: 5725 MHz

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#### 6 dB Bandwidth of UNII-3 band Portion = 5728.2-5725=3.2 MHz

#### TEST SETUP



#### **TEST ENVIRONMENT**

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

#### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.3. 6 DB BANDWIDTH

#### <u>LIMITS</u>

CFR 47 FCC Part15, Subpart E			
Test Item Limit Frequency Range (MHz)			
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850	

#### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C2. for 6 dB Emission Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz
VBW	For 6 dB Bandwidth: ≥ 3*RBW
Trace	Max hold
Sweep	Auto couple

b) Allow the trace to stabilize and 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.

#### Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz FL: 5711.76 MHz FH: 5728.2 MHz Turning Frequency: 5725 MHz 6 dB Bandwidth of UNII-3 band Portion = 5728.2-5725=3.2 MHz

#### TEST SETUP



#### **TEST ENVIRONMENT**

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

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#### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.4. MAXIMUM CONDUCTED OUTPUT POWER

#### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted	<ul> <li>Outdoor Access Point: 1 W (30 dBm)</li> <li>Indoor Access Point: 1 W (30 dBm)</li> <li>Fixed Point-To-Point Access Points: 1 W (30 dBm)</li> <li>Client Devices: 250 mW (24 dBm)</li> </ul>	5150 ~ 5250
+ 10 log B, where B is t	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

## Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

(i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep  $\ge 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\le \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 %, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\ge$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."

(viii) Trace average at least 100 traces in power averaging (rms) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

#### Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

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c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

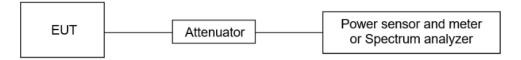
(iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

#### Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.

#### TEST SETUP



#### **TEST ENVIRONMENT**

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

#### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.5. PEAK POWER SPECTRAL DENSITY

#### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<ul> <li>Outdoor Access Point: 17 dBm/MHz</li> <li>Indoor Access Point: 17 dBm/MHz</li> <li>Fixed Point-To-Point Access Points: 17 dBm/MHz</li> <li>Client Devices: 11 dBm/MHz</li> </ul>	5150 ~ 5250
Density	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

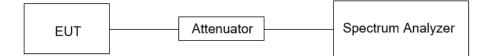
Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

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#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

#### TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.6. FREQUENCY STABILITY

#### LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

#### TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0  $^{\circ}$ C ~ 40  $^{\circ}$ C (declared by customer).

2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non handcarried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

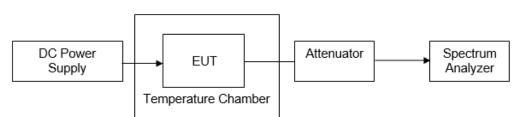
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Connect the EUT to the spectrum analyser and use the following settings:

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

## TEST RESULTS

Please refer to section "Test Data" - Appendix A

## 7.7. DYNAMIC FREQUENCY SELECTION (SLAVE)

#### LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)		
EIRP ≥ 200 milliwatt	-64 dBm		
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm		
EIRP < 200 milliwatt that do not meet the			
power	-64 dBm		
spectral density requirement			
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.			
Note 2: Throughout these test procedures an additional 1 dB has been added to the			
amplitude of the test transmission waveforms to account for variations in measurement			
equipment. This will ensure that the test signal is at or above the detection threshold level to			
trigger a DFS response.			
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB			
Publication 662911 D01.			

#### (2) DFS Response Requirements

 Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
	200 milliseconds + an aggregate of 60
Channel Closing Transmission Time	milliseconds over
	remaining 10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission
	power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid cochannel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

	Operational Mode			
Requirement	Master	Client Without	Client With Radar	
		Radar Detection	Detection	
Non-Occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

#### Table 1: Applicability of DFS Requirements Prior to Use of a Channel

#### Table 2: Applicability of DFS requirements during normal operation

	Operational Mode		
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection		
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required		
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link		
All other tests Any single BW mode Not require				
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.				

#### PARAMETERS OF RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Badar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials	
0	1	1428	18	See Note 1	See Note 1	
		Test A	$\left( \begin{pmatrix} 1 \\ \end{pmatrix} \right)$			
1	1	Test B	$\frac{\left \left(\frac{1}{360}\right)^{2}\right }{\left(\frac{19\cdot10^{6}}{\text{PRI}_{\mu\text{sec}}}\right)}$	60%	30	
2	1-5	150-230	23-29	60%	30	
3	6-10	200-500	16-18	60%	30	
4	11-20	200-500	12-16	60%	30	
00 0 1	Aggregate (Radar Types 1-4) 80% 120					
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time,						
and channel closing time tests.						
Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a						
Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A						

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

#### TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0  $^{\circ}$ C ~ 40  $^{\circ}$ C (declared by customer).

2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non handcarried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	10 kHz	
VBW	≥3 × RBW	

Connect the EUT to the spectrum analyser and use the following settings:

Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

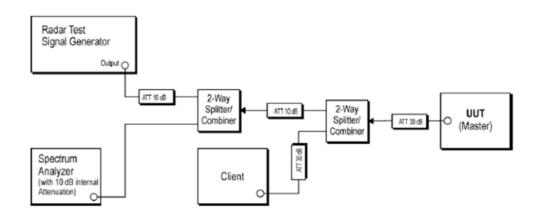
4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

#### **TEST ENVIRONMENT**

	Normal Test Conditions	Extreme Test Conditions	
Relative Humidity	20 % - 75 %	/	
<b>Atmospheric Pressure</b>	100 kPa ~102 kPa	/	
Temperature	T <sub>N</sub> (Normal Temperature):	T <sub>L</sub> (Low Temperature): 0 °C	
	25.1 °C	T <sub>H</sub> (High Temperature): 40 °C	
Supply Voltage		V <sub>L</sub> (Low Voltage): DC 2.805 V	
	$V_N$ (Normal Voltage): DC 3.3 V	V <sub>H</sub> (High Voltage): DC 3.795 V	

#### TEST SETUP



#### **TEST ENVIRONMENT**

Temperature	22.8°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

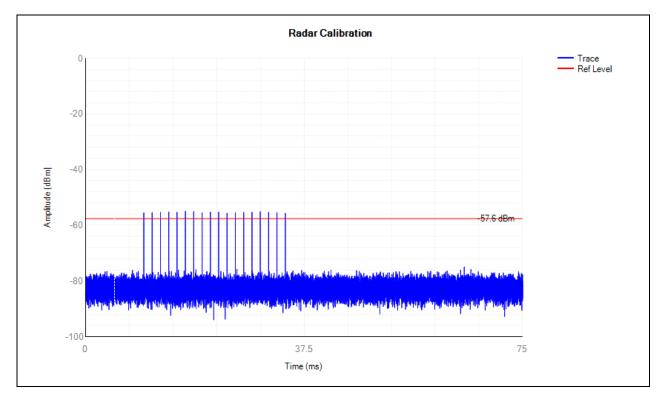
#### TEST RESULTS

Both the Master and Client device were set to 802.11n / MCS0x1 with 20 MHz channel bandwidth to ensure a stable channel loading. KDB 905462 D02 v02 UNII DFS Compliance Procedures states in Table 2 the EUT should be tested at maximum channel bandwidth (20 MHz for 802.11n mode). Test Frequency and channel for 802.11n (HT20):

	Transmit / Receive Channels Tested at 20 MHz Bandwidth setting:
Channel	Frequency (MHz)
60	5300
100	5500

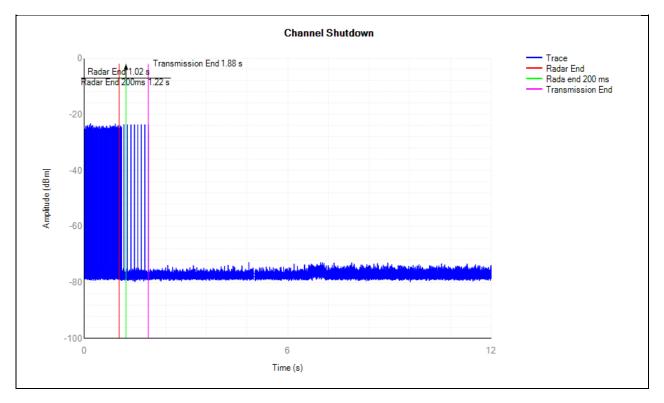
Test Mode	Frequency (MHz)	Radar Type	CCT (s)	Limit (s)	CMT (s)	Limit (s)	Verdict
802.11n HT 20	5300	Type0	0.0176	0.26	0.8589	10	PASS
δ02.11Π Π1 20	5500	Type0	0.01800	0.26	0.8633	10	PASS

Test Mode	Frequency (MHz)	Radar Type	CCT after 200ms (ms)	Limit (s)	Verdict
900 11n UT 00	5300	Type0	0.0064	0.06	PASS
802.11n HT 20	5500	Type0	0.0084	0.06	PASS

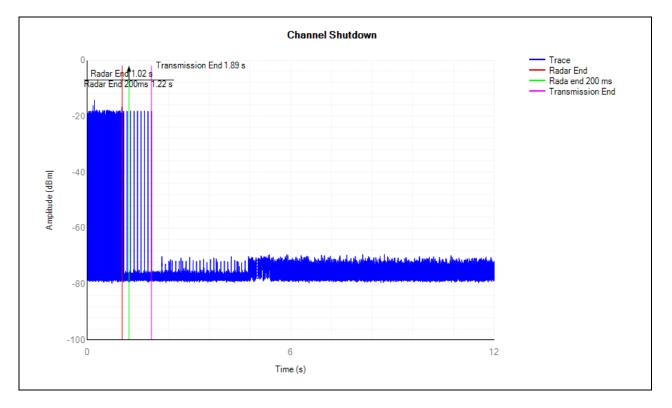


#### Shutdown Time

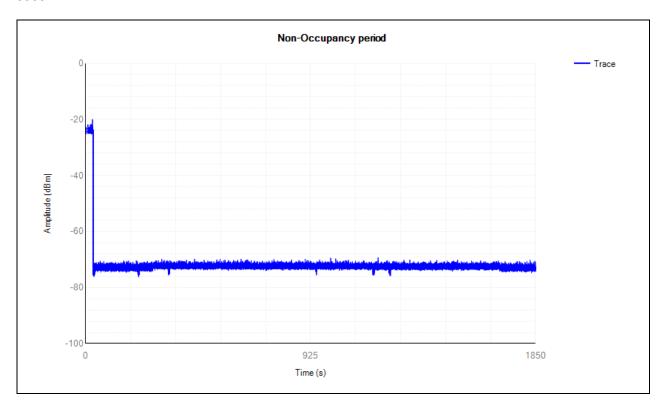




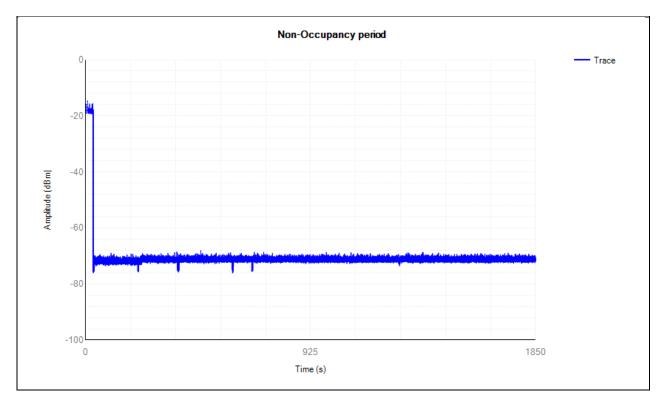
#### 5500MHz:



#### Non-Occupancy 5300MHz:



#### 5500MHz:



## 8. RADIATED TEST RESULTS

## LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Stren (dBuV/m)	•
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz				
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. <sup>2</sup>Above 38.6c

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Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b).

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)			
Frequency Range	EIRP Limit	Field Strength Limit	
(MHz)		(dBuV/m) at 3 m	
5150~5250 MHz			
5250~5350 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBµV/m)	
5470~5725 MHz			
5725~5850 MHz	PK: -27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1	
	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m) *2	
	PK: 15.6 (dBm/MHz) *3	PK: 110.8(dBµV/m) *3	
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4	

Note:

\*1 beyond 75 MHz or more above of the band edge.

\*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

\*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

\*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

#### TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, 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 and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made

to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of  $377\Omega$ . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

The setting of the spectrum analyser

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, 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. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

The setting of the spectrum analyser

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.

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2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

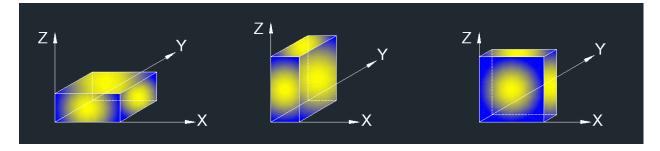
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

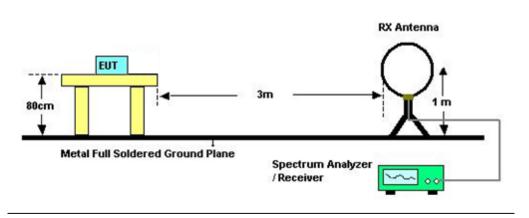
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

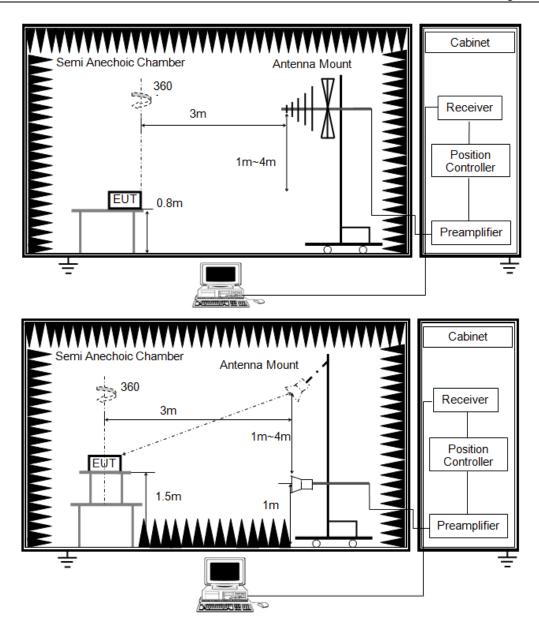
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

#### TEST SETUP





#### **TEST ENVIRONMENT**

Temperature	24.3°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

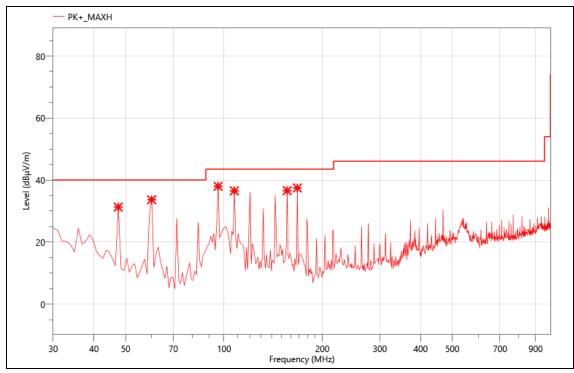
#### TEST RESULTS

### 8.1. RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

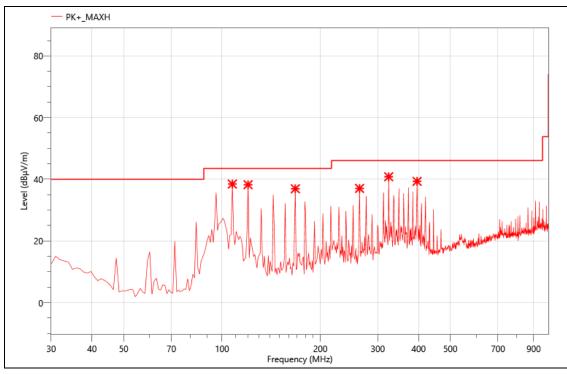
All modes have been tested and the worst result as bellow:



### Critical\_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	47.460	54.60	-23.3	31.30	40.00	8.70	PK+	V
2	60.070	58.15	-24.49	33.66	40.00	6.34	PK+	V
3	95.960	62.47	-24.49	37.98	43.50	5.52	PK+	V
4	107.600	60.17	-23.65	36.52	43.50	6.98	PK+	V
5	156.100	57.83	-21.24	36.59	43.50	6.91	PK+	V
6	167.740	60.15	-22.7	37.45	43.50	6.05	PK+	V

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

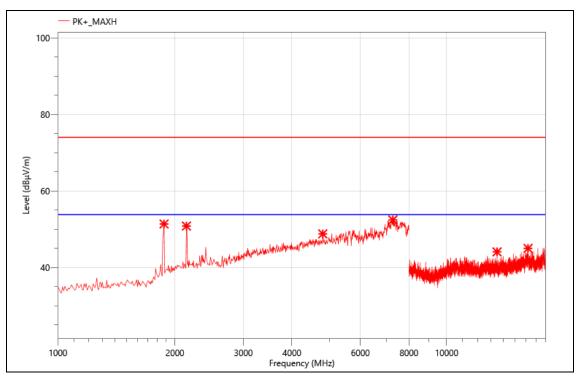


No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	107.600	62.11	-23.65	38.46	43.50	5.04	PK+	Н
2	120.210	62.84	-24.59	38.25	43.50	5.25	PK+	Н
3	167.740	59.63	-22.7	36.93	43.50	6.57	PK+	Н
4	263.770	55.37	-18.32	37.05	46.00	8.95	PK+	Н
5	323.910	58.52	-17.69	40.83	46.00	5.17	PK+	Н
6	395.690	53.48	-14.14	39.34	46.00	6.66	PK+	Н

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Mode:	11A 5180
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

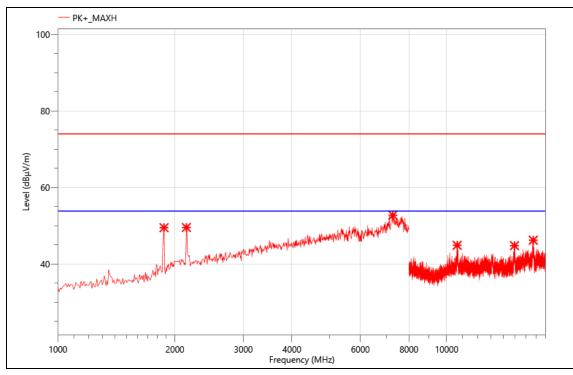
All modes have been tested and the worst result as bellow:



### Critical\_Freqs

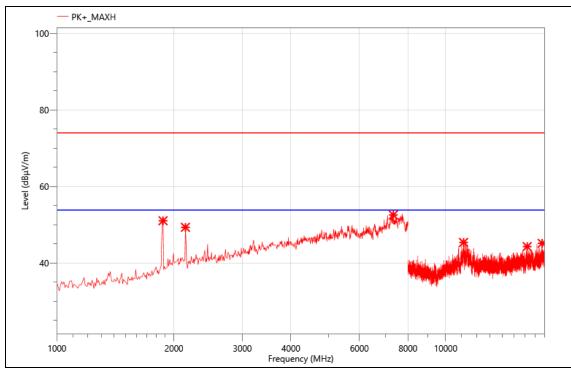
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	61.49	-10.11	51.38	74.00	22.62	PK+	Н
2	2141.000	59.84	-9	50.84	74.00	23.16	PK+	Н
3	4801.000	50.89	-2.1	48.79	74.00	25.21	PK+	Н
4	7272.000	41.58	10.86	52.44	74.00	21.56	PK+	Н
5	13481.000	48.49	-4.39	44.10	74.00	29.90	PK+	Н
6	16195.000	45.56	-0.56	45.00	74.00	29.00	PK+	Н

Mode:	11A 5180
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



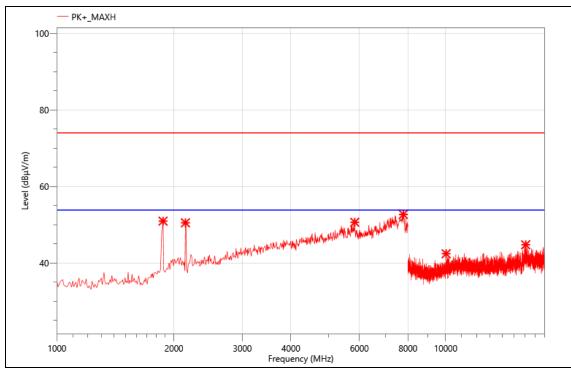
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	59.60	-10.11	49.49	74.00	24.51	PK+	V
2	2141.000	58.54	-9	49.54	74.00	24.46	PK+	V
3	7272.000	41.90	10.86	52.76	74.00	21.24	PK+	V
4	10643.000	49.21	-4.33	44.88	74.00	29.12	PK+	V
5	14947.000	47.23	-2.43	44.80	74.00	29.20	PK+	V
6	16709.000	47.98	-1.76	46.22	74.00	27.78	PK+	V

Mode:	11A 5200
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



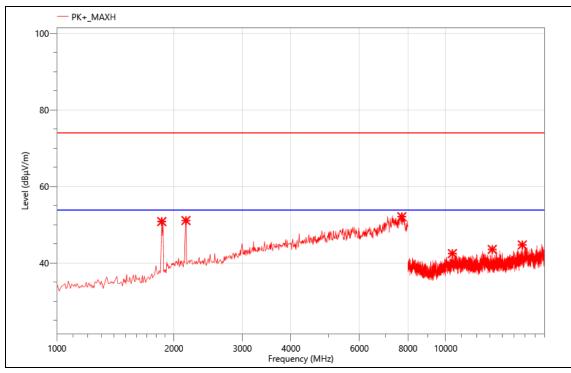
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	61.16	-10.11	51.05	74.00	22.95	PK+	V
2	2141.000	58.33	-9	49.33	74.00	24.67	PK+	V
3	7335.000	42.13	10.42	52.55	74.00	21.45	PK+	V
4	11119.000	49.98	-4.6	45.38	74.00	28.62	PK+	V
5	16208.000	45.06	-0.76	44.30	74.00	29.70	PK+	V
6	17712.000	45.70	-0.56	45.14	74.00	28.86	PK+	V

Mode:	11A 5200
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



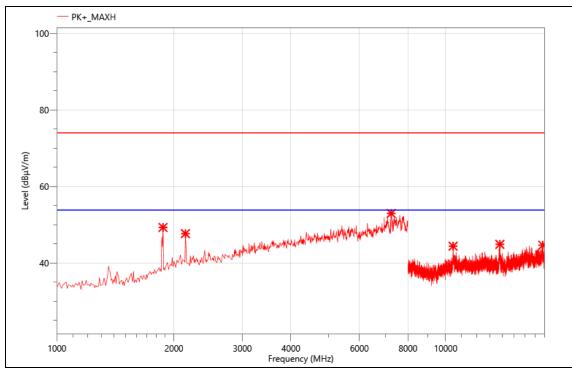
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	61.06	-10.11	50.95	74.00	23.05	PK+	Н
2	2141.000	59.51	-9	50.51	74.00	23.49	PK+	Н
3	5837.000	51.11	-0.46	50.65	74.00	23.35	PK+	Н
4	7783.000	40.66	12.04	52.70	74.00	21.30	PK+	Н
5	10031.000	47.97	-5.54	42.43	74.00	31.57	PK+	Н
6	16068.000	46.36	-1.59	44.77	74.00	29.23	PK+	Н

Mode:	11A 5240
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



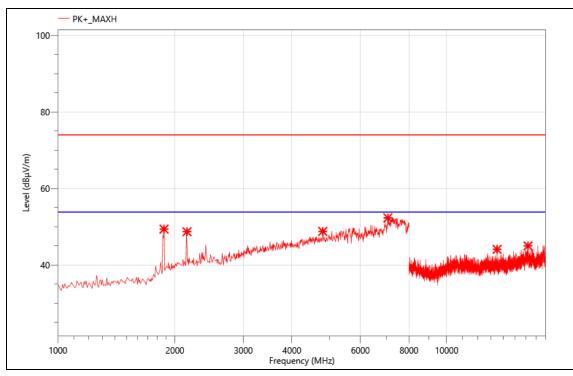
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	60.90	-10.07	50.83	74.00	23.17	PK+	Н
2	2148.000	60.17	-9.07	51.10	74.00	22.90	PK+	Н
3	7713.000	41.02	11.08	52.10	74.00	21.90	PK+	Н
4	10408.000	47.89	-5.42	42.47	74.00	31.53	PK+	Н
5	13179.000	47.81	-4.26	43.55	74.00	30.45	PK+	Н
6	15746.000	46.68	-1.96	44.72	74.00	29.28	PK+	Н

Mode:	11A 5240
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



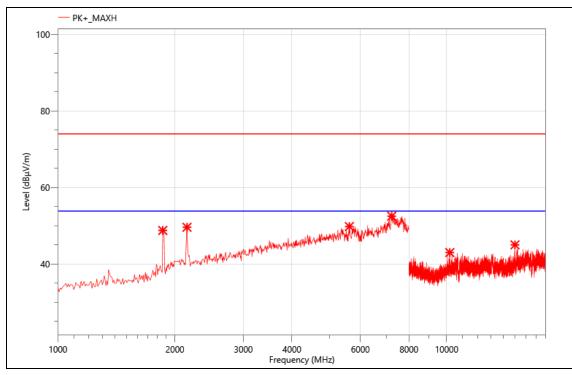
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	59.40	-10.11	49.29	74.00	24.71	PK+	V
2	2141.000	56.68	-9	47.68	74.00	26.32	PK+	V
3	7244.000	42.18	10.77	52.95	74.00	21.05	PK+	V
4	10451.000	49.84	-5.44	44.40	74.00	29.60	PK+	V
5	13788.000	48.39	-3.5	44.89	74.00	29.11	PK+	V
6	17782.000	44.75	-0.09	44.66	74.00	29.34	PK+	V

Mode:	11A 5260
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



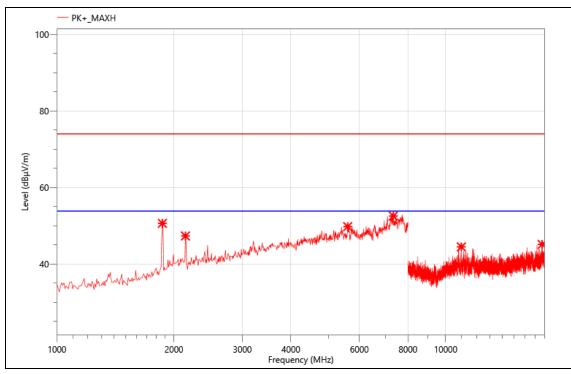
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	59.49	-10.11	49.38	74.00	24.62	PK+	Н
2	2148.000	57.77	-9.07	48.70	74.00	25.30	PK+	Н
3	4801.000	50.89	-2.1	48.79	74.00	25.21	PK+	Н
4	7062.000	42.63	9.69	52.32	74.00	21.68	PK+	Н
5	13481.000	48.49	-4.39	44.10	74.00	29.90	PK+	Н
6	16195.000	45.56	-0.56	45.00	74.00	29.00	PK+	Н

Mode:	11A 5260
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



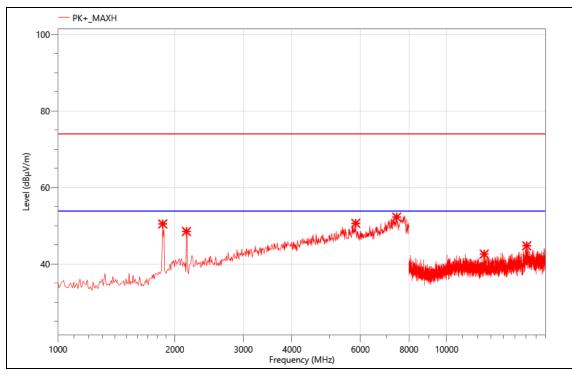
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	58.84	-10.07	48.77	74.00	25.23	PK+	V
2	2148.000	58.67	-9.07	49.60	74.00	24.40	PK+	V
3	5620.000	50.02	-0.22	49.80	74.00	24.20	PK+	V
4	7223.000	41.27	11.22	52.49	74.00	21.51	PK+	V
5	10190.000	48.74	-5.74	43.00	74.00	31.00	PK+	V
6	14990.000	47.70	-2.69	45.01	74.00	28.99	PK+	V

Mode:	11A 5300
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



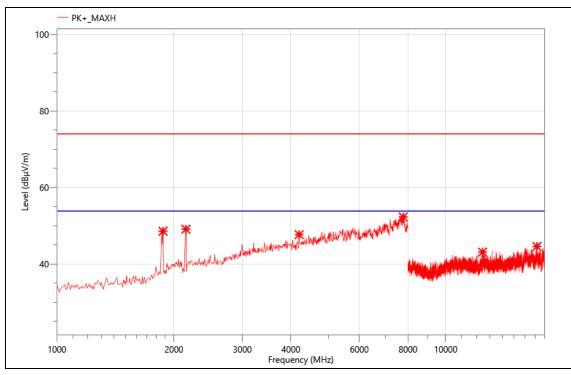
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1868.000	60.72	-10.09	50.63	74.00	23.37	PK+	V
2	2141.000	56.33	-9	47.33	74.00	26.67	PK+	V
3	5599.000	49.97	-0.2	49.77	74.00	24.23	PK+	V
4	7335.000	42.13	10.42	52.55	74.00	21.45	PK+	V
5	10975.000	50.01	-5.52	44.49	74.00	29.51	PK+	V
6	17712.000	45.70	-0.56	45.14	74.00	28.86	PK+	V

Mode:	11A 5300
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



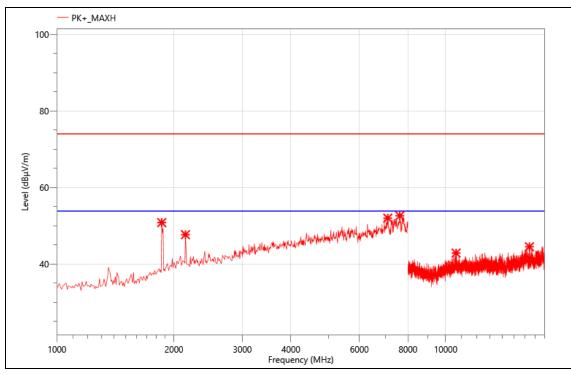
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	60.54	-10.07	50.47	74.00	23.53	PK+	Н
2	2141.000	57.51	-9	48.51	74.00	25.49	PK+	Н
3	5837.000	51.11	-0.46	50.65	74.00	23.35	PK+	Н
4	7440.000	41.47	10.79	52.26	74.00	21.74	PK+	Н
5	12490.000	46.58	-3.98	42.60	74.00	31.40	PK+	Н
6	16068.000	46.36	-1.59	44.77	74.00	29.23	PK+	Н

Mode:	11A 5320
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



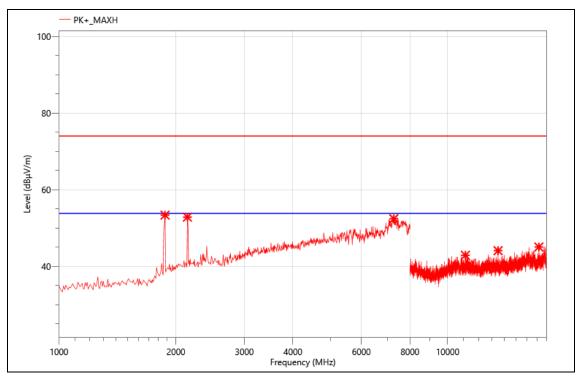
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	58.69	-10.11	48.58	74.00	25.42	PK+	Н
2	2148.000	58.17	-9.07	49.10	74.00	24.90	PK+	Н
3	4199.000	51.07	-3.38	47.69	74.00	26.31	PK+	Н
4	7776.000	40.46	11.83	52.29	74.00	21.71	PK+	Н
5	12447.000	47.71	-4.6	43.11	74.00	30.89	PK+	Н
6	17177.000	45.76	-1.17	44.59	74.00	29.41	PK+	Н

Mode:	11A 5320
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



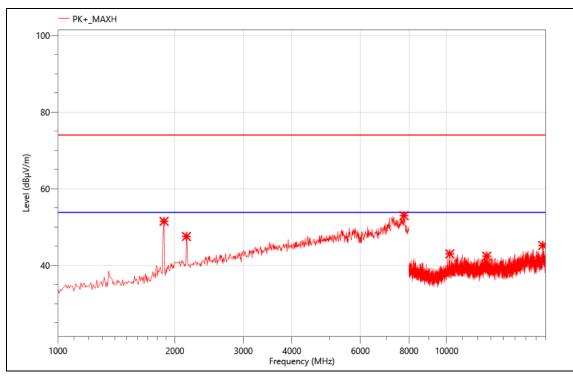
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	60.89	-10.07	50.82	74.00	23.18	PK+	V
2	2141.000	56.68	-9	47.68	74.00	26.32	PK+	V
3	7097.000	41.19	10.8	51.99	74.00	22.01	PK+	V
4	7622.000	40.31	12.28	52.59	74.00	21.41	PK+	V
5	10638.000	47.19	-4.32	42.87	74.00	31.13	PK+	V
6	16429.000	46.40	-1.89	44.51	74.00	29.49	PK+	V

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



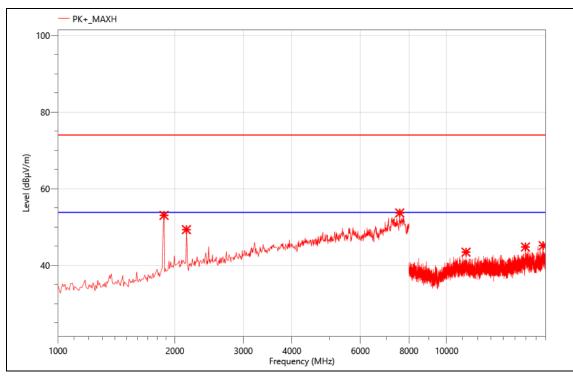
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	63.49	-10.11	53.38	74.00	20.62	PK+	Н
2	2141.000	61.84	-9	52.84	74.00	21.16	PK+	Н
3	7272.000	41.58	10.86	52.44	74.00	21.56	PK+	Н
4	11109.000	47.45	-4.55	42.90	74.00	31.10	PK+	Н
5	13481.000	48.49	-4.39	44.10	74.00	29.90	PK+	Н
6	17165.000	46.13	-1.07	45.06	74.00	28.94	PK+	Н

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



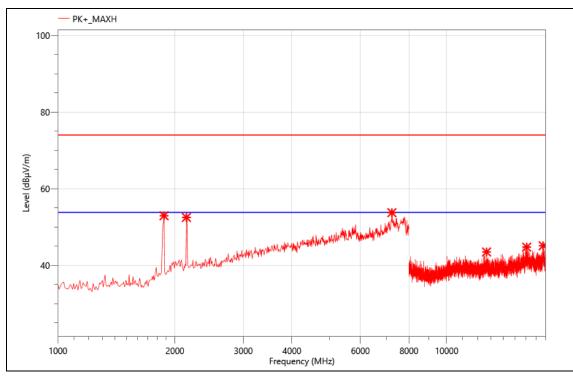
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	61.60	-10.11	51.49	74.00	22.51	PK+	V
2	2141.000	56.54	-9	47.54	74.00	26.46	PK+	V
3	7769.000	41.37	11.6	52.97	74.00	21.03	PK+	V
4	10190.000	48.74	-5.74	43.00	74.00	31.00	PK+	V
5	12678.000	46.54	-4.13	42.41	74.00	31.59	PK+	V
6	17676.000	45.58	-0.39	45.19	74.00	28.81	PK+	V

Mode:	11A 5600
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



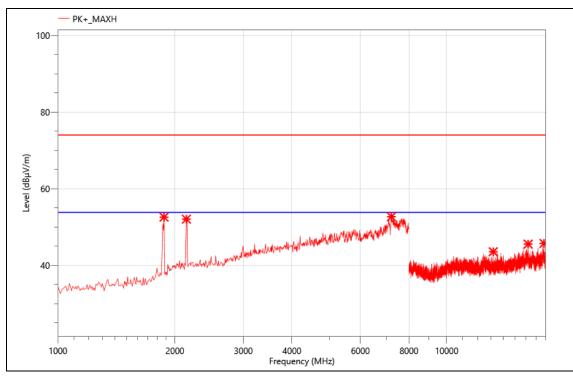
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	63.16	-10.11	53.05	74.00	20.95	PK+	V
2	2141.000	58.33	-9	49.33	74.00	24.67	PK+	V
3	7573.000	42.96	10.72	53.68	74.00	20.32	PK+	V
4	11221.000	47.75	-4.3	43.45	74.00	30.55	PK+	V
5	15948.000	46.33	-1.54	44.79	74.00	29.21	PK+	V
6	17712.000	45.70	-0.56	45.14	74.00	28.86	PK+	V

Mode:	11A 5600
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



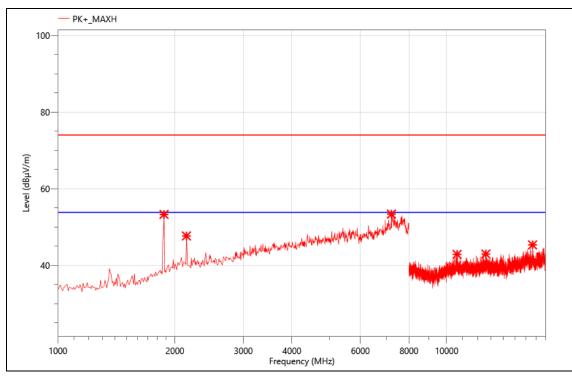
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	63.06	-10.11	52.95	74.00	21.05	PK+	Н
2	2141.000	61.51	-9	52.51	74.00	21.49	PK+	Н
3	7230.000	42.68	11.07	53.75	74.00	20.25	PK+	Н
4	12667.000	47.49	-3.99	43.50	74.00	30.50	PK+	Н
5	16068.000	46.36	-1.59	44.77	74.00	29.23	PK+	Н
6	17716.000	45.71	-0.6	45.11	74.00	28.89	PK+	Н

Mode:	11A 5700
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



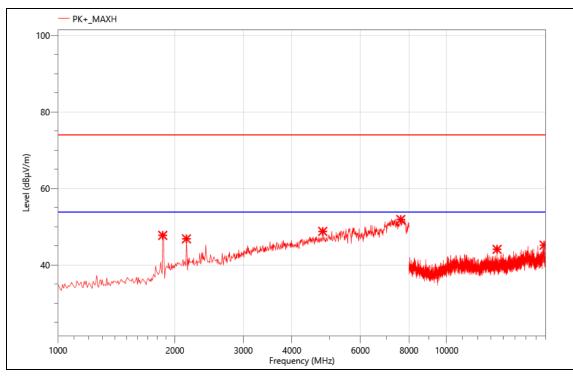
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	62.69	-10.11	52.58	74.00	21.42	PK+	Н
2	2141.000	61.06	-9	52.06	74.00	21.94	PK+	Н
3	7209.000	42.09	10.61	52.70	74.00	21.30	PK+	Н
4	13179.000	47.81	-4.26	43.55	74.00	30.45	PK+	Н
5	16205.000	46.26	-0.71	45.55	74.00	28.45	PK+	Н
6	17803.000	45.49	0.24	45.73	74.00	28.27	PK+	Н

Mode:	11A 5700
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



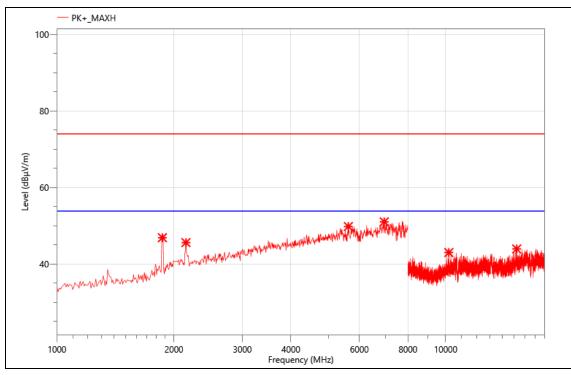
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	63.40	-10.11	53.29	74.00	20.71	PK+	V
2	2141.000	56.68	-9	47.68	74.00	26.32	PK+	V
3	7209.000	42.77	10.61	53.38	74.00	20.62	PK+	V
4	10638.000	47.19	-4.32	42.87	74.00	31.13	PK+	V
5	12616.000	47.01	-4.05	42.96	74.00	31.04	PK+	V
6	16633.000	46.17	-0.82	45.35	74.00	28.65	PK+	V

Mode:	11A 5745
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



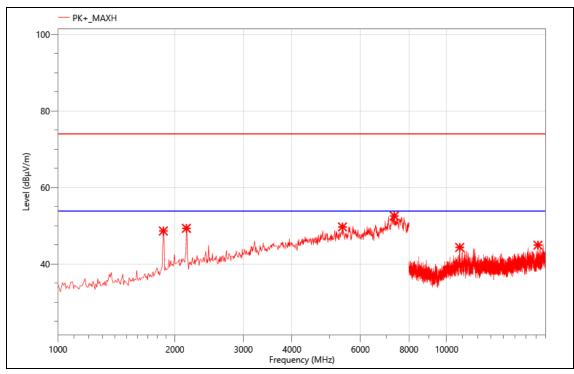
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	57.81	-10.07	47.74	74.00	26.26	PK+	Н
2	2141.000	55.84	-9	46.84	74.00	27.16	PK+	Н
3	4801.000	50.89	-2.1	48.79	74.00	25.21	PK+	Н
4	7622.000	39.61	12.28	51.89	74.00	22.11	PK+	Н
5	13481.000	48.49	-4.39	44.10	74.00	29.90	PK+	Н
6	17813.000	45.08	0.12	45.20	74.00	28.80	PK+	Н

Mode:	11A 5745
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



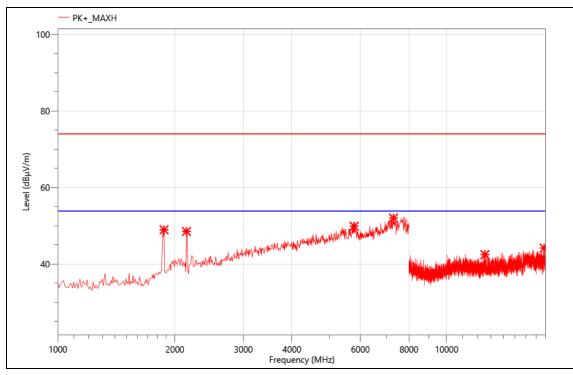
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1868.000	56.97	-10.09	46.88	74.00	27.12	PK+	V
2	2148.000	54.67	-9.07	45.60	74.00	28.40	PK+	V
3	5620.000	50.02	-0.22	49.80	74.00	24.20	PK+	V
4	6950.000	42.68	8.35	51.03	74.00	22.97	PK+	V
5	10190.000	48.74	-5.74	43.00	74.00	31.00	PK+	V
6	15230.000	46.94	-3	43.94	74.00	30.06	PK+	V

Mode:	11A 5785
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



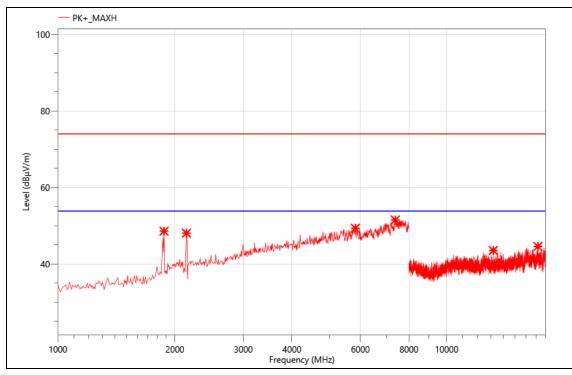
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1868.000	58.72	-10.09	48.63	74.00	25.37	PK+	V
2	2141.000	58.33	-9	49.33	74.00	24.67	PK+	V
3	5396.000	49.92	-0.23	49.69	74.00	24.31	PK+	V
4	7335.000	42.13	10.42	52.55	74.00	21.45	PK+	V
5	10806.000	49.36	-5.02	44.34	74.00	29.66	PK+	V
6	17176.000	46.11	-1.18	44.93	74.00	29.07	PK+	V

Mode:	11A 5785
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



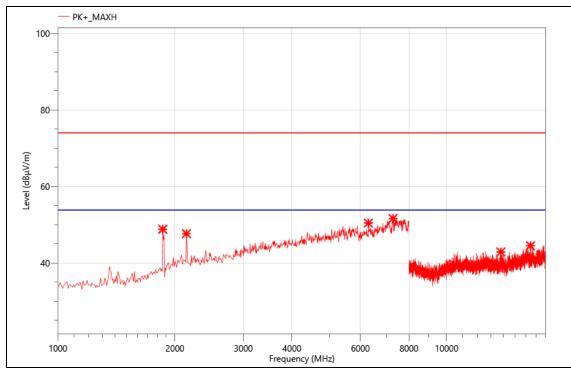
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	59.06	-10.11	48.95	74.00	25.05	PK+	Н
2	2141.000	57.51	-9	48.51	74.00	25.49	PK+	Н
3	5781.000	50.58	-0.7	49.88	74.00	24.12	PK+	Н
4	7300.000	41.69	10.32	52.01	74.00	21.99	PK+	Н
5	12545.000	45.83	-3.37	42.46	74.00	31.54	PK+	Н
6	17827.000	44.20	-0.05	44.15	74.00	29.85	PK+	Н

Mode:	11A 5825
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1875.000	58.69	-10.11	48.58	74.00	25.42	PK+	Н
2	2141.000	57.06	-9	48.06	74.00	25.94	PK+	Н
3	5823.000	49.72	-0.37	49.35	74.00	24.65	PK+	Н
4	7377.000	41.34	10.16	51.50	74.00	22.50	PK+	Н
5	13179.000	47.81	-4.26	43.55	74.00	30.45	PK+	Н
6	17177.000	45.76	-1.17	44.59	74.00	29.41	PK+	Н

Mode:	11A 5825
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1861.000	58.89	-10.07	48.82	74.00	25.18	PK+	V
2	2141.000	56.68	-9	47.68	74.00	26.32	PK+	V
3	6292.000	47.70	2.73	50.43	74.00	23.57	PK+	V
4	7279.000	40.91	10.72	51.63	74.00	22.37	PK+	V
5	13788.000	46.39	-3.5	42.89	74.00	31.11	PK+	V
6	16429.000	46.40	-1.89	44.51	74.00	29.49	PK+	V

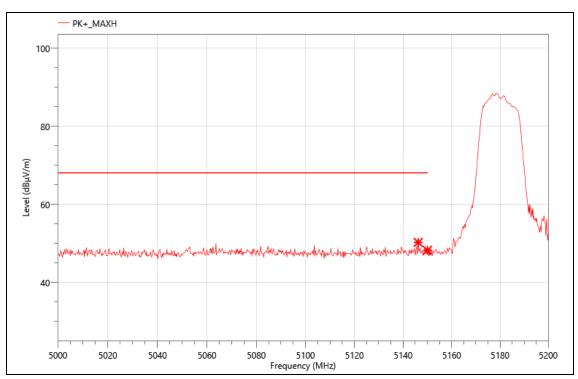
Note : [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

### Band Edge

Mode:	11A 5180
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa

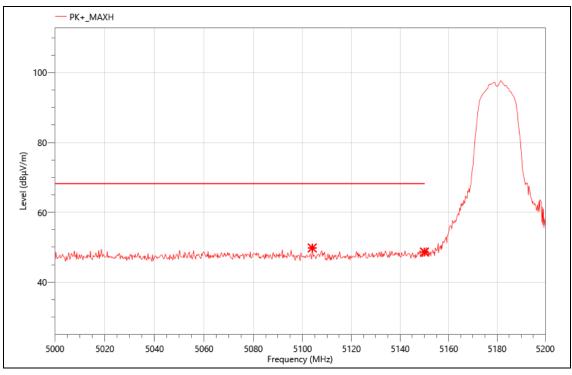
All modes have been tested and the worst result as bellow:



## Critical\_Freqs

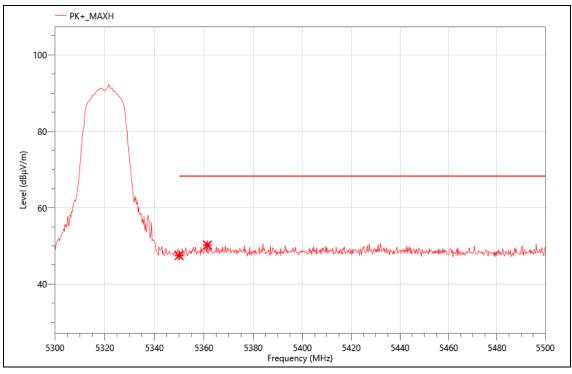
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5146.200	21.77	28.5	50.27	68.20	17.93	PK+	V
2	5150.000	19.81	28.45	48.26	68.20	19.94	PK+	V

Mode:	11A 5180
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



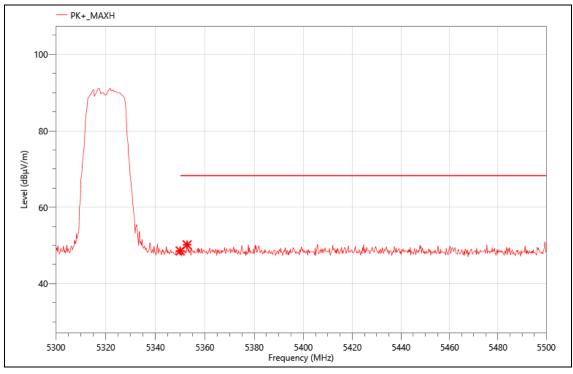
1 5104.000 21.57 28.22 49.79 68.20 18.41 Pk	- H
2 5150.000 20.17 28.45 48.62 68.20 19.58 PM	. H

Mode:	11A 5320
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



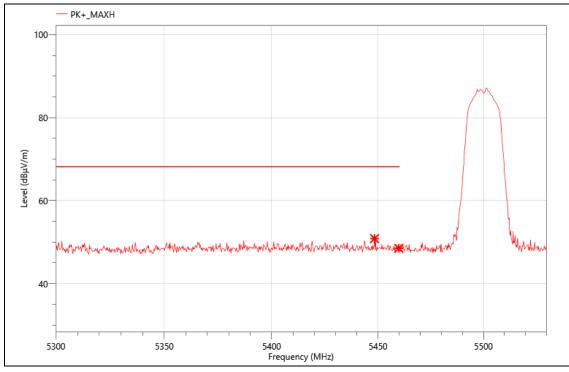
1 5350.000 18.50 28.99 47.49 68.20 20.71 PK	+ H
2 5361.400 20.99 29.24 50.23 68.20 17.97 PK	+ H

Mode:	11A 5320
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



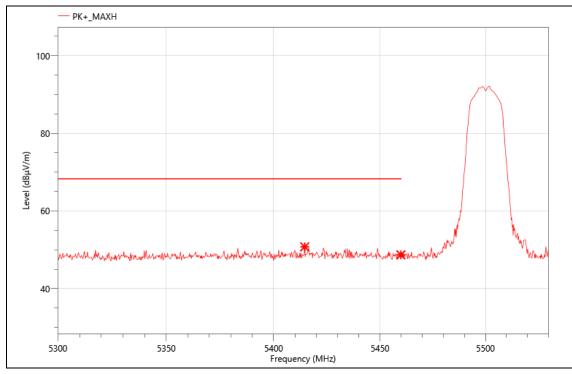
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	19.58	28.99	48.57	68.20	19.63	PK+	V
2	5352.800	21.13	29.05	50.18	68.20	18.02	PK+	V

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



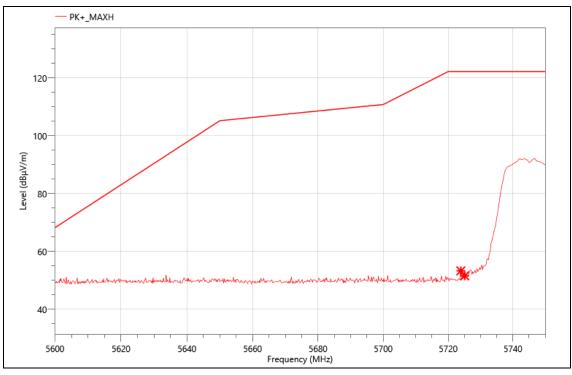
1 5448.350 21.53 29.31 50.84 68.20 17.36 PK+	No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
	1	5448.350	21.53	29.31	50.84	68.20	17.36	PK+	V
2   5459.850   19.36   29.14   48.50   68.20   19.70   PK+	2	5459.850	19.36	29.14	48.50	68.20	19.70	PK+	V

Mode:	11A 5500
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



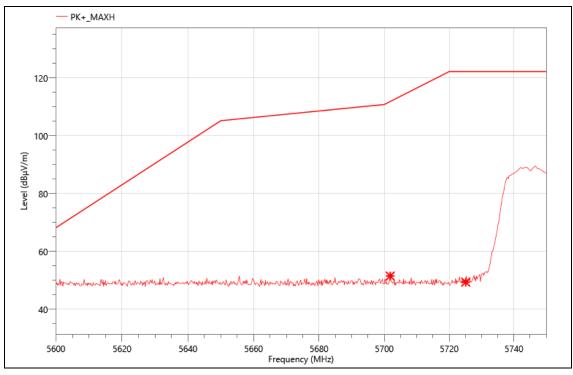
	No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
	1	5414.540	21.43	29.33	50.76	68.20	17.44	PK+	Н
	2	5459.850	19.56	29.14	48.70	68.20	19.50	PK+	Н
<u> </u>		1			0 1				

Mode:	11A 5745
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5723.900	24.01	29.25	53.26	122.20	68.94	PK+	Н
2	5725.100	22.31	29.24	51.55	122.20	70.65	PK+	Н

Mode:	11A 5745
Power:	AC120V/60Hz
TE:	Big
Date	2024/09/10
T/A/P	24.3°C/52%/101Kpa



No	). Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5701.850	22.10	29.38	51.48	111.86	60.38	PK+	V
2	5725.100	20.13	29.24	49.37	122.20	72.83	PK+	V
			- ··	<b>^</b>	-			

### 9. AC POWER LINE CONDUCTED EMISSION

### LIMITS

Please refer to CFR 47 FCC §15.207 (a)

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

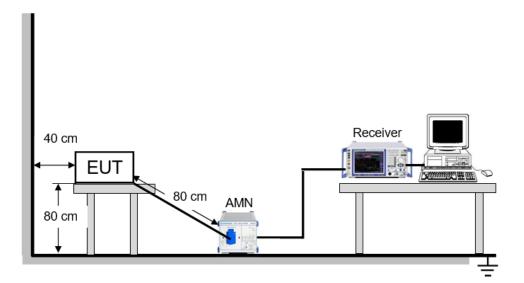
#### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

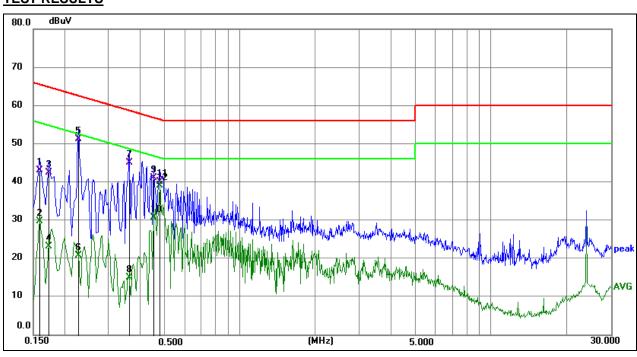
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52%
Atmosphere Pressure	100kPa		

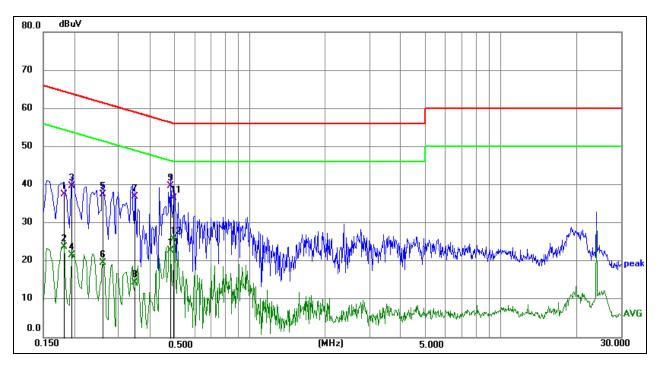


### TEST RESULTS

Phase: L	.1

Mode: 11a 5500MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	33.15	9.90	43.05	65.52	-22.47	QP
2	0.1590	19.84	9.90	29.74	55.52	-25.78	AVG
3	0.1725	32.62	9.91	42.53	64.84	-22.31	QP
4	0.1725	13.22	9.91	23.13	54.84	-31.71	AVG
5	0.2265	41.33	9.87	51.20	62.58	-11.38	QP
6	0.2265	10.97	9.87	20.84	52.58	-31.74	AVG
7	0.3615	35.14	9.94	45.08	58.69	-13.61	QP
8	0.3615	5.18	9.94	15.12	48.69	-33.57	AVG
9	0.4515	31.36	9.83	41.19	56.85	-15.66	QP
10	0.4515	20.95	9.83	30.78	46.85	-16.07	AVG
11	0.4785	30.34	9.84	40.18	56.37	-16.19	QP
12	0.4785	29.18	9.84	39.02	46.37	-7.35	AVG



Phase: N	Mode: 11a 5

5500MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1815	27.64	9.94	37.58	64.42	-26.84	QP
2	0.1815	13.84	9.94	23.78	54.42	-30.64	AVG
3	0.1949	29.78	9.94	39.72	63.83	-24.11	QP
4	0.1949	11.73	9.94	21.67	53.83	-32.16	AVG
5	0.2580	27.62	9.91	37.53	61.50	-23.97	QP
6	0.2580	9.66	9.91	19.57	51.50	-31.93	AVG
7	0.3480	26.95	9.90	36.85	59.01	-22.16	QP
8	0.3480	4.58	9.90	14.48	49.01	-34.53	AVG
9	0.4830	29.79	9.97	39.76	56.29	-16.53	QP
10	0.4830	12.84	9.97	22.81	46.29	-23.48	AVG
11	0.4965	26.49	9.98	36.47	56.06	-19.59	QP
12	0.4965	15.72	9.98	25.70	46.06	-20.36	AVG

### 10. ANTENNA REQUIREMENT

#### REQUIREMENT

#### Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### Please refer to FCC §15.407(a)(1)(2)(3)

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### DESCRIPTION

Compliance.