

# CFR 47 FCC PART 15 SUBPART C TEST REPORT

For

#### Wall Box EV Charger

MODEL NUMBER: SK-EV40, SK-EV40-16AS, SK-EV40-16AT, SK-EV40-32AS, SK-EV40-32AT

REPORT NUMBER: E04A23080897F00203

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#### Prepared for

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#### Prepared by

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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.

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# Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 21, 2024	Initial Issue	

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# **Summary of Test Results**

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

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

<sup>\*</sup>The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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#### 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Shenzhen Southking Technology Co.,Ltd

Address: 2nd / 4th Floor, Building 1 and 2nd Floor, Building 2, No. 596

Zhoushi Road, Jiuwei Community, Hangcheng Street, Baoan

District, Shenzhen, Guangdong, China

**Manufacturer Information** 

Company Name: Shenzhen Southking Technology Co.,Ltd

Address: 2nd / 4th Floor, Building 1 and 2nd Floor, Building 2, No. 596

Zhoushi Road, Jiuwei Community, Hangcheng Street, Baoan

District, Shenzhen, Guangdong, China

**EUT Information** 

Product Description: Wall Box EV Charger

Model: SK-EV40, SK-EV40-16AS, SK-EV40-16AT, SK-EV40-32AS,

SK-EV40-32AT

Brand: Half Minute Power Sample Received Date: December 12, 2023

Sample Status: Normal

Sample ID: A23080897 003

Date of Tested: December 12, 2023 to September 21, 2024

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	Pass		

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### 2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C

### 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
7 toologitation Continuate	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

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#### 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
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
		9 kHz-30 MHz: ± 0.95 dB
Conducted Spurious Emission	1.96	30 MHz-1 GHz: ± 1.5 dB
Conducted Spanodo Enflocion	1.00	1GHz-12.75GHz: ± 1.8 dB
		12.75 GHz-26.5 GHz: ± 2.1dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Test Item	Measurement 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.

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# **5. EQUIPMENT UNDER TEST**

# **5.1. DESCRIPTION OF EUT**

EUT Name		Wall Box EV Charger
Model		SK-EV40
Series Model		SK-EV40-16AS, SK-EV40-16AT, SK-EV40-32AS, SK-EV40-32AT
Hardware Version	n	V1.0
Software Version		V1.0
Ratings		Input voltage: 85~415V Output voltage: 85~415V Output Current: 16A/40A Max.Output Power: 22KW Max
Power Supply AC		240V/60Hz

Frequency Band:	2400 MHz to 2483.5 MHz		
Frequency Range:	2412 MHz to 2462 MHz		
Support Standards:	802.11b/g/n		
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)		
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7		
Number of Channels:	IEEE 802.11b/g/n HT20: 11		
Maximum Peak Power:	IEEE 802.11b: 14.24 dBm IEEE 802.11g: 13.94 dBm IEEE 802.11n HT20: 13.19 dBm		
Antenna Type:	Internal antenna		
Antenna Gain:	3.28 dBi		
EUT Test software:	EspRFTestTool_v2.8_Manual		

### 5.2. CHANNEL LIST

	Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2412	4	2427	7	2442	10	2457	
2	2417	5	2432	8	2447	11	2462	
3	2422	6	2437	9	2452	1	1	

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#### 5.3. MAXIMUM PEAK OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)
b	2412 ~ 2462	1-11[11]	14.24
g	2412 ~ 2462	1-11[11]	13.94
n HT20	2412 ~ 2462	1-11[11]	13.19

#### **5.4. TEST CHANNEL CONFIGURATION**

IEEE Std. 802.11 Test Channel Number		Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz

#### 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Softw	/are		Es	pRFTestT	ool_v2.8_M	1anual	
	Transmit		Test Chan				
Modulation Mode	Antenna	NCB: 20MHz		NCB: 40MHz			
	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	0	0	0			
802.11g	1	10	10	10			
802.11n HT20	1	15	15	15			

# **WORST-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 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11g mode: 6 Mbps 802.11n HT20 mode: MCS0

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### 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	Internal antenna	3.28

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

#### 5.7. SUPPORT UNITS FOR SYSTEM TEST

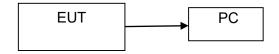
Equipment	Manufacturer	Model No.
PC	Lenovo	T14
Test board	1	1

#### 5.8. SETUP DIAGRAM

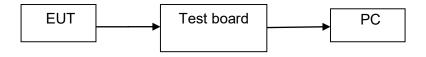
AC conducted emission:



Radiated Emission:



RF conducted:



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# 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	2024/09/14	2025/09/13	
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13	
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13	
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13	
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13	
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13	
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	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/14	2025/09/13
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	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2024/09/14	2025/09/13
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10

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Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2024/09/14	2025/09/13
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	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
8-Wire ISN CAT6	Schwarzbeck	NTFM8158	#237	2024/09/14	2025/09/13
CURRENT PROBE	Rohde & Schwarz	EZ-17	101602	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

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#### 7. ANTENNA PORT TEST RESULTS

#### 7.1. CONDUCTED OUTPUT POWER

#### **LIMITS**

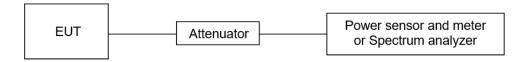
CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3					
Section	Test Item	Limit	Frequency Range (MHz)		
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5		

#### **TEST PROCEDURE**

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	21.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

#### **TEST RESULTS**

Please refer to section "Test Data" - Appendix C

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#### 7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### **LIMITS**

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3					
Section	Test Item	Limit	Frequency Range (MHz)		
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5		
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5		

#### **TEST PROCEDURE**

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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

Center Frequency	The center frequency of the channel under test	
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW	
Detector	Peak	
IRRW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth	
IV/R/M	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied 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 dB relative to the maximum level measured in the fundamental emission.

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#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	21.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

# **TEST RESULTS**

Please refer to section "Test Data" - Appendix C

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#### 7.3. POWER SPECTRAL DENSITY

#### **LIMITS**

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

#### **TEST PROCEDURE**

Refer to ANSI C63.10-2013 clause 11.10.

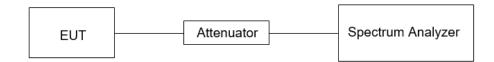
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	PEAK	
RBW	3 kHz ≤ RBW ≤ 100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple	

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	21.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

#### **TEST RESULTS**

Please refer to section "Test Data" - Appendix C

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#### 7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

#### **LIMITS**

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power		

#### **TEST PROCEDURE**

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple.	

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

	or chilosion level measurement.
เวยสม	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

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#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	21.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

# **TEST RESULTS**

Please refer to section "Test Data" - Appendix C

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#### 7.5. DUTY CYCLE

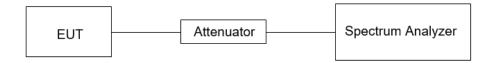
#### **LIMITS**

None; for reporting purposes only.

#### **TEST PROCEDURE**

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

#### **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	<b>21.2</b> ℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

#### **TEST RESULTS**

Please refer to section "Test Data" - Appendix C

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### 8. RADIATED TEST RESULTS

#### **LIMITS**

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

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	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-l	Peak
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		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	

#### ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz					
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)			
9 - 490 kHz <sup>Note 1</sup>	6.37/F (F in kHz)	300			
490 - 1705 kHz	63.7/F (F in kHz)	30			
1.705 - 30 MHz	0.08	30			

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

### ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1845.5 - 1848.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		
	ds listed in table 7 and in bands above 38.6	

# 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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#### **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

The setting of the spectrum analyser

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

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

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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 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 1G

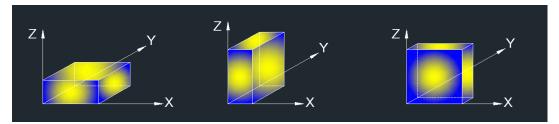
The setting of the spectrum analyser

RBW	MHz	
IV/BW	PEAK: 3 MHz NVG: see note 6	
Sweep	Auto	
Detector	Peak	
Trace	Max hold	

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 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.

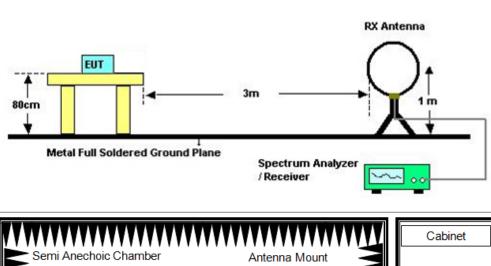
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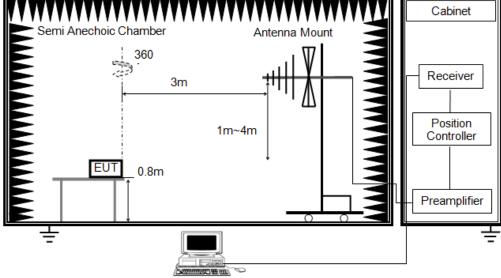
X axis, Y axis, Z axis positions:



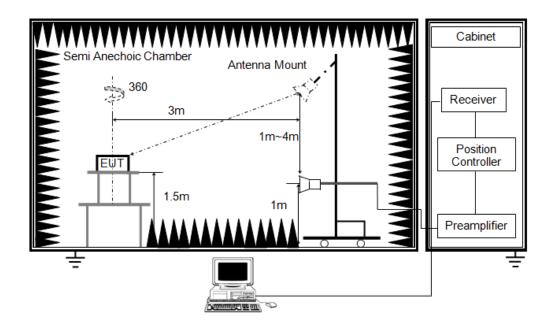
Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

### **TEST SETUP**





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#### **TEST ENVIRONMENT**

Temperature	<b>23.1</b> ℃	Relative Humidity	54%
Atmosphere Pressure	101kPa		

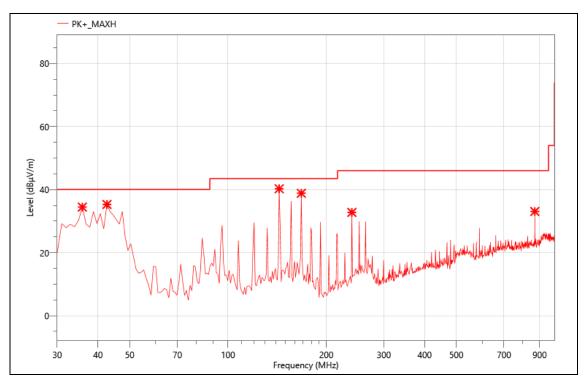
### **TEST RESULTS**

Please refer to section 8.1.

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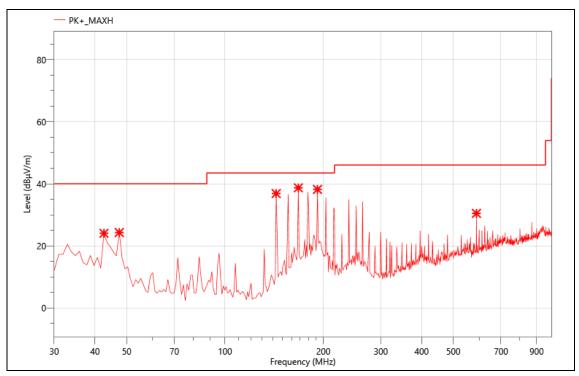
### 8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Mode:	2.4G WIFI 802.11b 2412MHz		
Power:	AC 240V/60Hz		
TE:	Big		
Date	2024/05/21		
T/A/P	23.1°C/54%/101Kpa		



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	35.820	52.10	-17.65	34.45	40.00	5.55	PK+	V
2	42.610	56.75	-21.46	35.29	40.00	4.71	PK+	V
3	143.490	63.78	-23.52	40.26	43.50	3.24	PK+	V
4	167.740	61.54	-22.7	38.84	43.50	4.66	PK+	V
5	239.520	52.43	-19.66	32.77	46.00	13.23	PK+	V
6	870.020	38.51	-5.45	33.06	46.00	12.94	PK+	V

Mode:	2.4G WIFI 802.11b 2412MHz			
Power:	AC 240V/60Hz			
TE:	Big			
Date	2024/05/21			
T/A/P	23.1°C/54%/101Kpa			



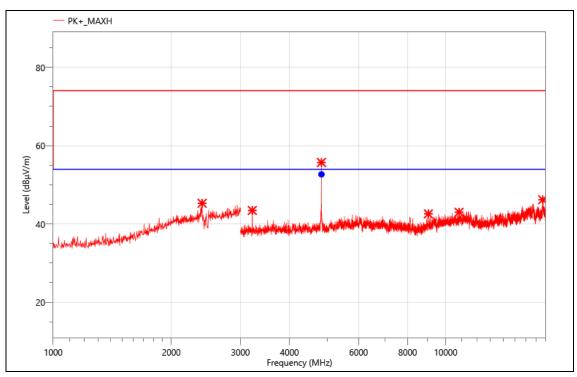
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	42.610	45.53	-21.46	24.07	40.00	15.93	PK+	Н
2	47.460	47.61	-23.3	24.31	40.00	15.69	PK+	Н
3	143.490	60.40	-23.52	36.88	43.50	6.62	PK+	Н
4	167.740	61.41	-22.7	38.71	43.50	4.79	PK+	Н
5	191.990	60.77	-22.57	38.20	43.50	5.30	PK+	Н
6	588.720	40.66	-10.18	30.48	46.00	15.52	PK+	Н

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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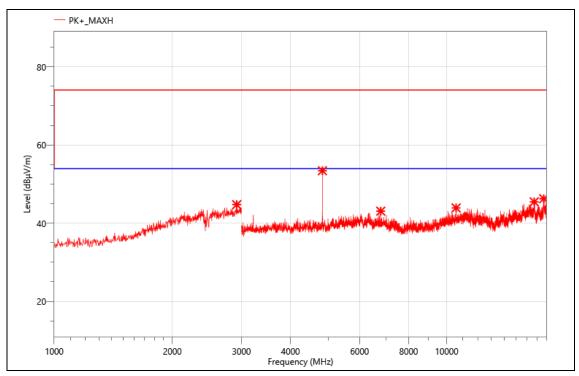
Mode:	2.4G WIFI 802.11b 2412MHz		
Power:	C 240V/60Hz		
TE:	Big		
Date	2024/05/21		
T/A/P	23.1°C/54%/101Kpa		



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2396.000	53.83	-8.53	45.30	74.00	28.70	PK+	Н
2	3216.000	58.18	-14.72	43.46	74.00	30.54	PK+	Н
3	4824.000	67.18	-11.47	55.71	74.00	18.29	PK+	Н
4	9033.000	50.02	-7.43	42.59	74.00	31.41	PK+	Н
5	10819.500	48.14	-5.13	43.01	74.00	30.99	PK+	Н
6	17670.000	45.94	0.26	46.20	74.00	27.80	PK+	Н

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4824.000	64.15	-11.47	52.68	53.90	1.22	AVG	Н	PASS

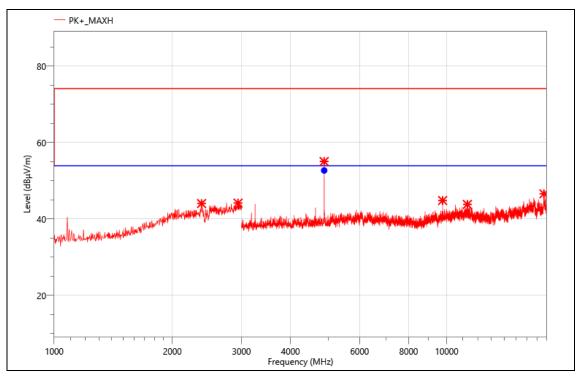
Mode:	2.4G WIFI 802.11b 2412MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2918.000	52.38	-7.63	44.75	74.00	29.25	PK+	V
2	4824.000	64.89	-11.47	53.42	74.00	20.58	PK+	V
3	6792.000	51.34	-8.26	43.08	74.00	30.92	PK+	V
4	10569.000	49.02	-5.11	43.91	74.00	30.09	PK+	V
5	16713.000	46.30	-0.84	45.46	74.00	28.54	PK+	V
6	17670.000	46.00	0.26	46.26	74.00	27.74	PK+	V

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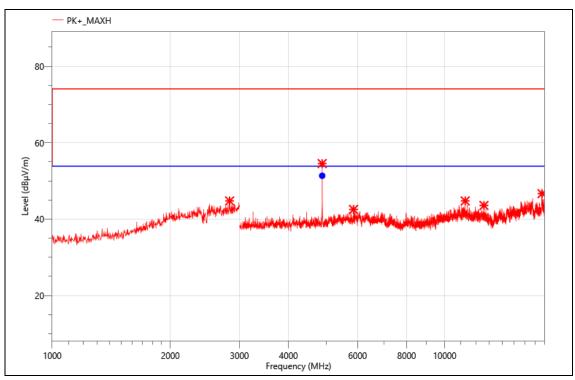
Mode:	2.4G WIFI 802.11b 2437MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2374.000	52.50	-8.49	44.01	74.00	29.99	PK+	Н
2	2940.000	51.61	-7.48	44.13	74.00	29.87	PK+	Н
3	4873.500	66.17	-11.15	55.02	74.00	18.98	PK+	Н
4	9765.000	51.77	-6.97	44.80	74.00	29.20	PK+	Н
5	11290.500	47.95	-4.17	43.78	74.00	30.22	PK+	Н
6	17697.000	46.36	0.2	46.56	74.00	27.44	PK+	Н

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4873.500	63.81	-11.15	52.66	53.90	1.24	AVG	Η	PASS

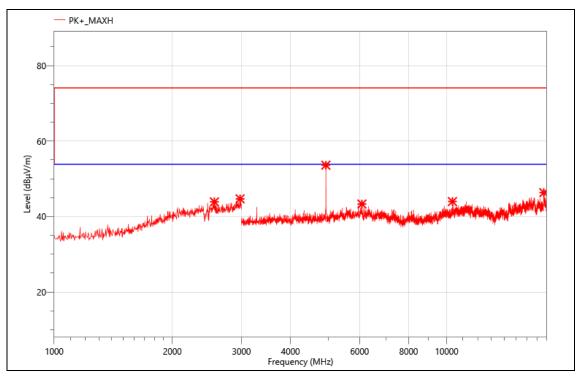
Mode:	2.4G WIFI 802.11b 2437MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2832.000	52.49	-7.73	44.76	74.00	29.24	PK+	V
2	4873.500	65.69	-11.15	54.54	74.00	19.46	PK+	V
3	5859.000	51.60	-9.07	42.53	74.00	31.47	PK+	V
4	11278.500	49.02	-4.26	44.76	74.00	29.24	PK+	V
5	12592.500	47.81	-4.24	43.57	74.00	30.43	PK+	V
6	17700.000	46.49	0.18	46.67	74.00	27.33	PK+	V

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4873.500	62.50	-11.15	51.35	53.90	2.55	AVG	V	PASS

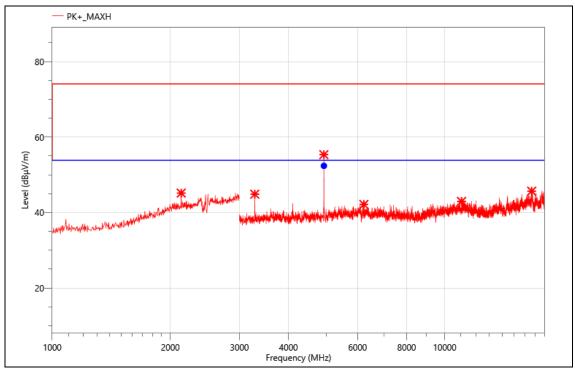
Mode:	2.4G WIFI 802.11b 2462MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2560.000	51.92	-8.04	43.88	74.00	30.12	PK+	V
2	2976.000	51.74	-7.06	44.68	74.00	29.32	PK+	V
3	4923.000	64.72	-11.11	53.61	74.00	20.39	PK+	V
4	6082.500	51.47	-8.15	43.32	74.00	30.68	PK+	V
5	10342.500	49.62	-5.65	43.97	74.00	30.03	PK+	V
6	17680.500	46.05	0.29	46.34	74.00	27.66	PK+	V

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Mode:	2.4G WIFI 802.11b 2462MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



# Critical\_Freqs

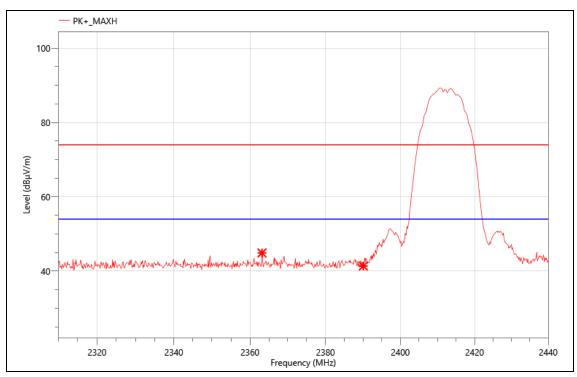
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2132.000	54.21	-9.05	45.16	74.00	28.84	PK+	Н
2	3282.000	59.56	-14.69	44.87	74.00	29.13	PK+	Н
3	4923.000	66.45	-11.11	55.34	74.00	18.66	PK+	Н
4	6225.000	50.50	-8.35	42.15	74.00	31.85	PK+	Н
5	11040.000	48.16	-5.21	42.95	74.00	31.05	PK+	Н
6	16660.500	46.33	-0.67	45.66	74.00	28.34	PK+	Н

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4923.000	63.48	-11.11	52.37	53.90	1.53	AVG	Ι	PASS

#### Note:

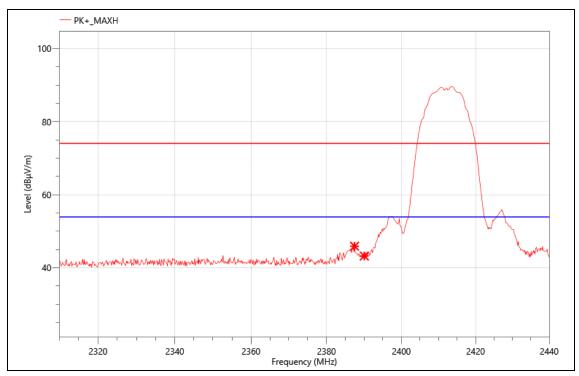
- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 5. The frequency, which started from 18 GHz to 26.5GHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 6. 802.11b,802.11g and 802.11n HT20 were all tested, and only 802.11b was recorded in the report as the worst mode.

Mode:	2.4G WIFI 802.11b 2412MHz				
Power:	AC 240V/60Hz				
TE:	Big				
Date	2024/05/21				
T/A/P	23.1°C/54%/101Kpa				



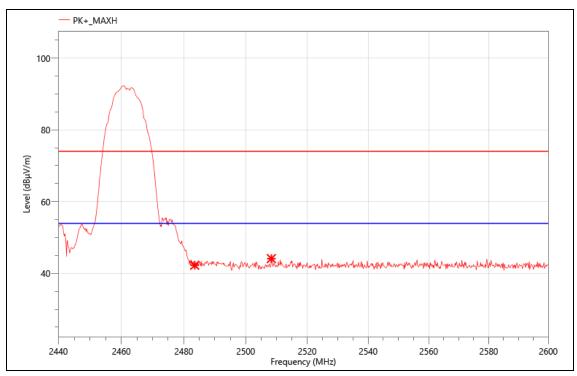
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2363.170	22.19	22.69	44.88	74.00	29.12	PK+	V
2	2390.080	18.62	22.72	41.34	74.00	32.66	PK+	V

Mode:	2.4G WIFI 802.11b 2412MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



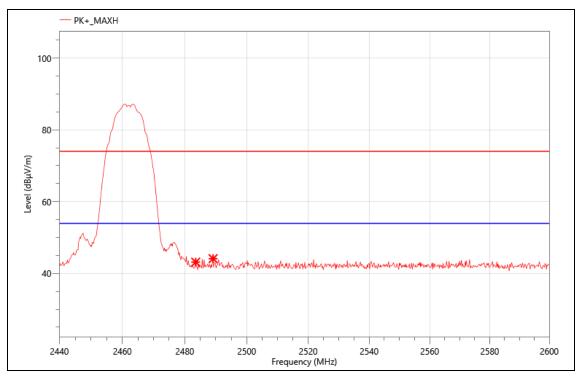
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2387.480	23.24	22.67	45.91	74.00	28.09	PK+	Н
2	2390.080	20.49	22.72	43.21	74.00	30.79	PK+	Н

Mode:	2.4G WIFI 802.11b 2462MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.520	19.13	23.15	42.28	74.00	31.72	PK+	Н
2	2508.320	21.01	23.1	44.11	74.00	29.89	PK+	Н

Mode:	2.4G WIFI 802.11b 2462MHz
Power:	AC 240V/60Hz
TE:	Big
Date	2024/05/21
T/A/P	23.1°C/54%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.520	19.99	23.15	43.14	74.00	30.86	PK+	V
2	2489.120	20.96	23.14	44.10	74.00	29.90	PK+	V

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 5. 802.11b,802.11g and 802.11n HT20 were all tested, and only 802.11b was recorded in the report as the worst mode.

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#### 9. 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 §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **DESCRIPTION**

**Pass** 

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#### 10. AC POWER LINE CONDUCTED EMISSION

#### **LIMITS**

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

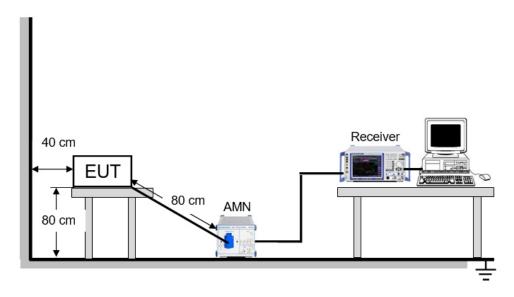
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### **TEST PROCEDURE**

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**

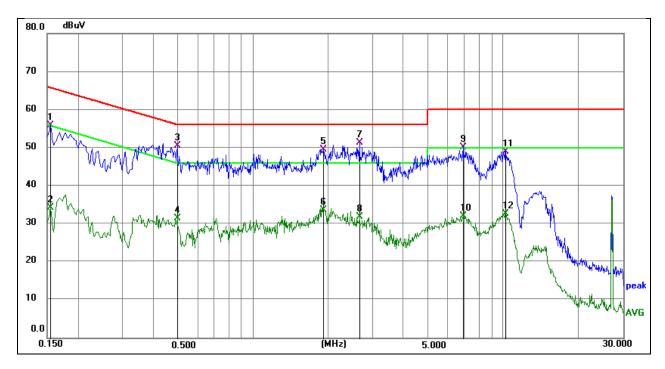


#### **TEST ENVIRONMENT**

Temperature	<b>26</b> ℃	Relative Humidity	54%
Atmosphere Pressure	100kPa		

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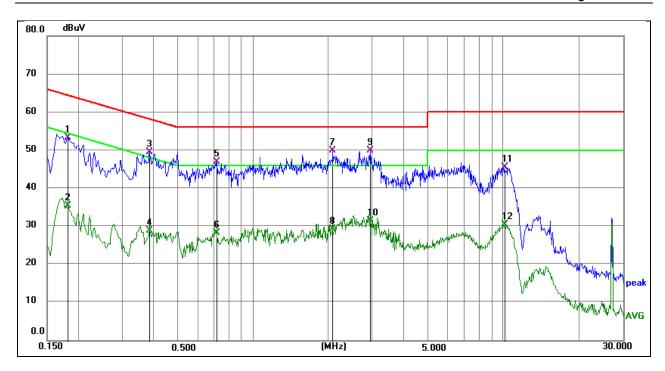
### **TEST RESULTS**



Phase: N Mode: 802.11b 2412MHz

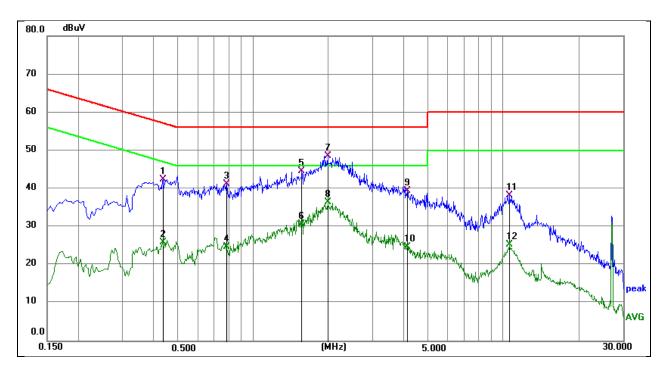
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1544	45.73	10.12	55.85	65.76	-9.91	QP
2	0.1544	24.09	10.12	34.21	55.76	-21.55	AVG
3	0.4964	40.39	10.21	50.60	56.06	-5.46	QP
4	0.4964	21.18	10.21	31.39	46.06	-14.67	AVG
5	1.9140	39.29	10.27	49.56	56.00	-6.44	QP
6	1.9140	23.37	10.27	33.64	46.00	-12.36	AVG
7	2.6564	40.98	10.28	51.26	56.00	-4.74	QP
8	2.6564	21.58	10.28	31.86	46.00	-14.14	AVG
9	6.9000	39.77	10.43	50.20	60.00	-9.80	QP
10	6.9000	21.58	10.43	32.01	50.00	-17.99	AVG
11	10.2255	38.59	10.43	49.02	60.00	-10.98	QP
12	10.2255	22.27	10.43	32.70	50.00	-17.30	AVG

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Phase: L1 Mode: 802.11b 2412MHz

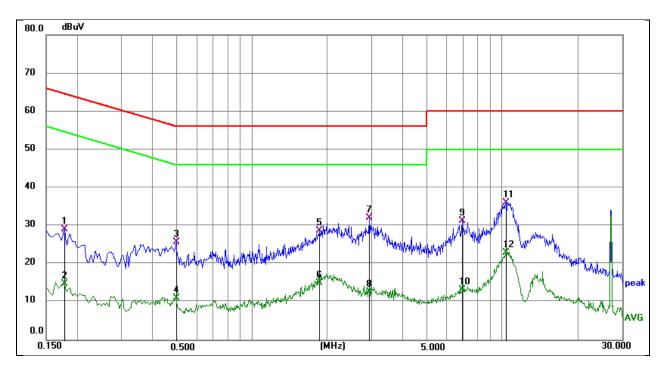
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1814	43.21	10.18	53.39	64.42	-11.03	QP
2	0.1814	25.31	10.18	35.49	54.42	-18.93	AVG
3	0.3840	39.44	10.17	49.61	58.19	-8.58	QP
4	0.3840	18.67	10.17	28.84	48.19	-19.35	AVG
5	0.7170	36.83	10.21	47.04	56.00	-8.96	QP
6	0.7170	17.99	10.21	28.20	46.00	-17.80	AVG
7	2.0803	39.62	10.26	49.88	56.00	-6.12	QP
8	2.0803	19.11	10.26	29.37	46.00	-16.63	AVG
9	2.9310	39.58	10.34	49.92	56.00	-6.08	QP
10	2.9310	21.13	10.34	31.47	46.00	-14.53	AVG
11	10.0860	34.92	10.56	45.48	60.00	-14.52	QP
12	10.0860	19.89	10.56	30.45	50.00	-19.55	AVG



Phase: L2 Mode: 802.11b 2412MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.4334	32.20	10.19	42.39	57.19	-14.80	QP
2	0.4334	15.81	10.19	26.00	47.19	-21.19	AVG
3	0.7844	31.06	10.22	41.28	56.00	-14.72	QP
4	0.7844	14.44	10.22	24.66	46.00	-21.34	AVG
5	1.5673	34.24	10.25	44.49	56.00	-11.51	QP
6	1.5673	20.40	10.25	30.65	46.00	-15.35	AVG
7	1.9815	38.18	10.26	48.44	56.00	-7.56	QP
8	1.9815	26.18	10.26	36.44	46.00	-9.56	AVG
9	4.1280	29.18	10.20	39.38	56.00	-16.62	QP
10	4.1280	14.55	10.20	24.75	46.00	-21.25	AVG
11	10.6125	27.89	10.37	38.26	60.00	-21.74	QP
12	10.6125	14.89	10.37	25.26	50.00	-24.74	AVG

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Phase: L3	Mode: 802.11b 2412MHz			

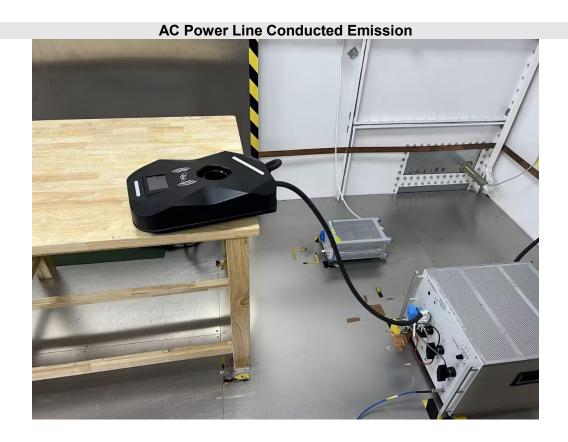
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1770	18.79	10.21	29.00	64.63	-35.63	QP
2	0.1770	4.53	10.21	14.74	54.63	-39.89	AVG
3	0.4964	15.46	10.15	25.61	56.06	-30.45	QP
4	0.4964	0.87	10.15	11.02	46.06	-35.04	AVG
5	1.8600	18.38	10.26	28.64	56.00	-27.36	QP
6	1.8600	4.81	10.26	15.07	46.00	-30.93	AVG
7	2.9445	21.60	10.37	31.97	56.00	-24.03	QP
8	2.9445	2.25	10.37	12.62	46.00	-33.38	AVG
9	6.8955	20.64	10.56	31.20	60.00	-28.80	QP
10	6.8955	2.65	10.56	13.21	50.00	-36.79	AVG
11	10.2930	25.54	10.55	36.09	60.00	-23.91	QP
12	10.2930	12.43	10.55	22.98	50.00	-27.02	AVG

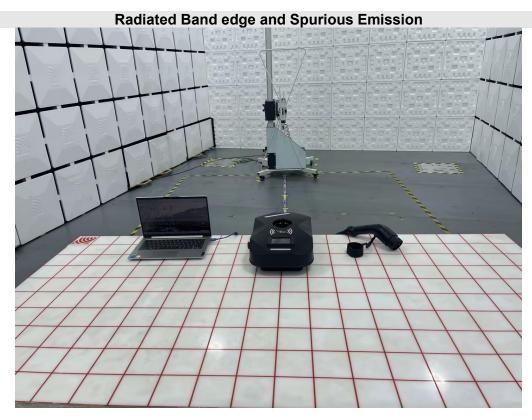
Note: 1. Result = Reading + Correct Factor.

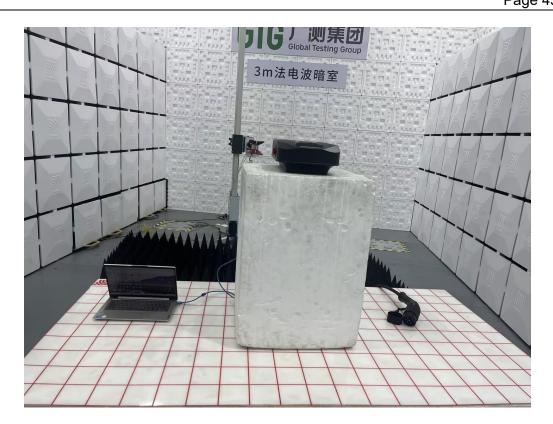
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz  $\sim$  150 kHz), 9 kHz (150 kHz  $\sim$  30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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# **APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION**







**END OF REPORT**