

TEST REPORT

Applicant: Anker Japan Co., Ltd.

Address: 9F Waterras Tower, 2-101, Kanda-Awajicho, Chiyoda-ku, Tokyo

Product Name: eufyCam S4

Model Name: T8172

Type of Equipment: Certification Ordinance Article 2-1-8

Test method(s): MIC Notice No.88 of 2004, Appendix No.22-16 (Version: MIC Notice No.409 of 2023)

Report Number: 2502U64589E-RF-07C

Report Date: 2025/7/25

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Ivy Tang

Rocky Xiao

Reviewed By: Ivy Tang

Approved By: Rocky Xiao

Title: Project Engineer

Title: RF Supervisor

Bay Area Compliance Laboratories Corp. (Dongguan)

No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888

Fax: +86-769-86858891

www.baclcorp.com.cn

Note: The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report cannot be reproduced except in full, without prior written approval of the Company. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0. This report may contain data that are not covered by the accreditation scope and shall be marked with ★. Each test item follows the test standard(s) without deviation.

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	4
GENERAL INFORMATION	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
TECHNICAL SPECIFICATION	5
OBJECTIVE	5
TEST METHODOLOGY	5
TEST FACILITY	5
DECLARATIONS	6
EUT TEST CONFIGURATION	7
DESCRIPTION OF TEST CONFIGURATION	7
EUT EXERCISE SOFTWARE	7
EQUIPMENT MODIFICATIONS	7
CONFIGURATION OF TEST SETUP	7
SUPPORT EQUIPMENT LIST AND DETAILS	8
TEST EQUIPMENT LIST AND DETAILS	9
TEST ENVIRONMENTAL CONDITIONS	10
SUMMARY OF TEST RESULTS	11
1 - FREQUENCY TOLERANCE	12
LIMIT	12
TEST PROCEDURE	12
TEST DATA	15
2 - OCCUPIED BANDWIDTH	16
LIMIT	16
TEST PROCEDURE	16
TEST DATA	17
3 - OUTPUT POWER AND OUTPUT POWER TOLERANCE	19
LIMIT	19
TEST PROCEDURE	19
TEST DATA	20
4 - UNWANTED EMISSION STRENGTH	21
LIMIT	21
TEST PROCEDURE	21
TEST DATA	22
6 - TRANSMISSION TIME RESTRICTION	24
REQUIREMENT	24
TEST PROCEDURE	24
TEST DATA	25
7 - AUTOMATIC STOP FUNCTION RADIO WAVES	26
LIMIT	26
CONFIRMATION RESULT	26
8 - INTERFERENCE PREVENTION FUNCTION	27
REQUIREMENT	27
TEST PROCEDURE	27
SUPPORT EQUIPMENT LIST AND DETAILS	27
TEST RESULT	27
9 - CONSTRUCTION PROTECTION CONFIRMATION	28
LIMIT	28
CONFIRMATION METHOD	28

EXHIBIT A – EUT PHOTOGRAPHS	29
EXHIBIT B – TEST SETUP PHOTOGRAPHS.....	30

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502U64589E-RF-07C	Original Report	2025/7/25

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Equipment Name	eufyCam S4
Tested Model Number	T8172
Nominal Power Supply:	3.6Vdc from battery or 5Vdc from USB
Serial Number	34P0-6
EUT Received Date:	2025/6/16
EUT Received Status:	Good

Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Solar Panel	Anker Innovations Limited	T8704	Output: 5Vdc,0.9A

Technical Specification

Operation Frequency Range (GHz):	60-63
Nominal RF Output Power (Conducted, mW):	4
Maximum Antenna Gain (dBi)▲:	7.43
Modulation Type:	FMCW
Emission Type	N0N

Objective

The objective of this current document is to demonstrate the EUT complies with Article 6-4-2 of Regulations for Enforcement of the radio law, as equipment type in Certification Ordinance Article 2-1-8 of Specific Radio Equipment Specified in Article 38-2-2 Paragraph 1 Item 1of the Radio Law; and Article 3 of MPT Notice No.42 of 1989 (Version: MIC Notice No.301 of 2022).

Test Methodology

All measurements contained in this report were conducted with technical regulations of MIC Notice No.88 of 2004, Appendix No.22-16 (Version: MIC Notice No.409 of 2023).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

Measurement Uncertainty

Parameter	Flab	Maximum allow uncertainty
Radio Frequency	$\pm 0.082 \times 10^{-6}$	$\pm 1 \times 10^{-7}$
Radiated RF power (up to 40 GHz)	$\pm 3.62\text{dB}$	$\pm 6\text{dB}$
Radiated RF power (above 40 GHz up to 66 GHz)	$\pm 4.35\text{dB}$	$\pm 8\text{dB}$
Radiated RF power (above 66 GHz up to 100 GHz)	$\pm 5.68\text{dB}$	$\pm 10\text{dB}$
Radiated RF power (above 100 GHz)	$\pm 7.35\text{dB}$	/
Humidity	$\pm 5\%$	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$	$\pm 1^\circ\text{C}$
DC and low frequency voltages	$\pm 0.4\%$	$\pm 3\%$

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Uncertainty so

Input quantity	value(dB)	u (xi)
Antenna factor	4.40	4.40
Harmonic Mixer factor	4.60	4.60
Mismatch: harmonic Mixer - diplexer	0.526/-0.496	0.51
Mismatch: diplexer- spectrum analyzer	0.500/-0.473	0.49
Spectrum analyzer amplitude log fidelity	2.00	2.00
Radiation test site	3.00	3.00
$RSS_{\text{error}} = \sqrt{\sum u(xi)^2}$		7.35

Declarations

The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with ★.

Each test item follows the test standard(s) without deviation.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

The EUT in built a power manage system, power deviation of the RF chipset input is less than 1% when extreme voltage supplied, therefore the test only performed at normal condition. Details as following:

Voltage Condition	Input(V _{DC})	RF System Voltage(V _{DC})
NV	3.6	3.3
LV	3.24	3.3
HV	3.96	3.3

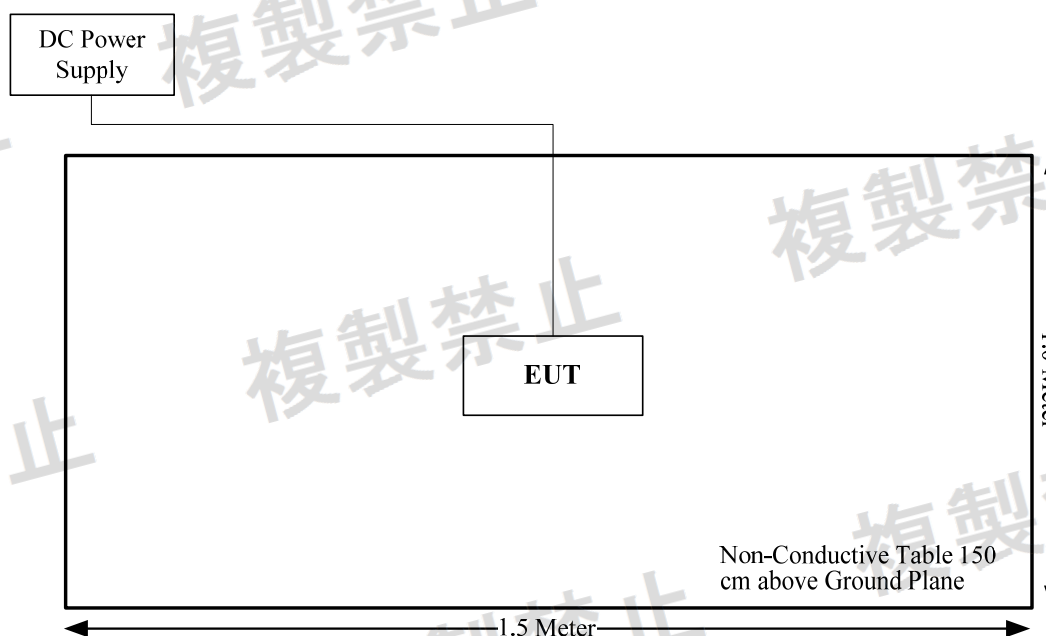
EUT Exercise Software

No software was used.

Equipment Modifications

No modification was made to the EUT tested.

Configuration of Test Setup



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
DC Cable	NO	NO	1.5	EUT	DC Power Supply

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
Radiated emissions below 1GHz							
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5	SMQ	C
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5	SMQ	C
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2024/7/1	2025/6/30	BACL Metrology	C
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2024/7/1	2025/6/30	BACL Metrology	C
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2024/7/1	2025/6/30	BACL Metrology	C
Sonoma	Amplifier	310N	185914	2024/8/26	2025/8/25	BACL Metrology	C
R&S	EMI Test Receiver	ESCI	100340	2024/8/26	2025/8/25	GRGTEST	C
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A	/	/
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4	BACL Metrology	C
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4	BACL Metrology	C
All-sun	Clamp Meter	EM305A	8348897	2024/8/16	2025/8/15	BACL Metrology	C
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A	/	/
Radiated emissions above 1GHz							
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6	SMQ	C
AH	Horn Antenna	SAS-571	1177	2023/2/22	2026/2/21	CASIC203	C
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21	CASIC203	C
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-03 1304	2023/2/22	2026/2/21	CASIC203	C
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21	CASIC203	C
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-02 1302	2023/2/22	2026/2/21	CASIC203	C
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16	BACL Metrology	C
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8	BACL Metrology	C
Micro-Coax	Coaxial Cable	UFA210B	99G1448	2024/9/5	2025/9/4	BACL Metrology	C
Agilent	Signal Generator	E8247C	MY43321350	2024/9/5	2025/9/4	BACL Metrology	C
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10	GRGTEST	C
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4	BACL Metrology	C
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5	BACL Metrology	C
OML	Waveguide Mixer	WR19/M19HWD	U60313-1	2023/9/11	2026/9/10	CASIC203	C
OML	Horn Antenna	M19RH	11648-01	2023/2/27	2026/2/26	CASIC203	C
Flann Microwave	Horn Antenna	24245-AB	26	2023/2/27	2026/2/26	CASIC203	C
Agilent	mm-Wave Source Modules	83556A	3138A00547	2023/2/16	2026/2/15	CASIC203	C
Agilent	Waveguide Mixer	11970V	2521A011767	2023/2/16	2026/2/15	CASIC203	C

Flann Microwave	Horn Antenna	861V/385	736	2023/2/27	2026/2/26	CASIC203	C
NSI	Horn Antenna	NSI-RF-SG15	F-08-EM195-3	2023/2/27	2026/2/26	CASIC203	C
Agilent	mm-Wave Source Modules	83557A	3942A00699	2023/2/16	2026/2/15	CASIC203	C
OML	Waveguide Mixer	WR12/M12HWD	E60120-1	2023/2/16	2026/2/15	CASIC203	C
OML	Horn Antenna	M12RH	E60120-2	2023/2/27	2026/2/26	CASIC203	C
NSI	Horn Antenna	NSI-RF-SG10	F-08-EM198-3	2023/2/27	2026/2/26	CASIC203	C
SAGE	Frequency Extender	STE-SF910-00-S2	F-08-EM198-4	2023/2/16	2026/2/15	CASIC203	C
OML	Waveguide Mixer	WR08/M08HWD	F60313-1	2023/2/16	2026/2/15	CASIC203	C
OML	Horn Antenna	M08RH	F60313-2	2023/2/27	2026/2/26	CASIC203	C
Agilent	Horn Antenna	SAZ-2410-06-S1	24449-01	2023/2/27	2026/2/26	CASIC203	C
SAGE	Frequency Extender	STE-KF1206-00-S1	24439-01	2023/9/11	2026/9/10	CASIC203	C
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/9/6	2025/9/5	BACL Metrology	C
All-sun	Clamp Meter	EM305A	8348897	2024/8/16	2025/8/15	BACL Metrology	C
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A	/	/
Dongling	Simulated Transport Vibration Test Stand	ES-10-240	D1804182	2024/9/6	2025/9/5	GRGTEST	C

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Note:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

Test Environmental Conditions

Test Site:	Radiated emissions below 1GHz	Radiated emissions above 1GHz
Temperature:	29.5 °C	26.5~27.3°C
Relative Humidity:	65.0 %	48.0%
ATM Pressure:	100.8 kPa	99.9~100.1kPa
Tester:	Leesin Xiang	Alan Xie
Test Date:	2025/6/27	2025/7/16~2025/7/17

SUMMARY OF TEST RESULTS

Article 2, Paragraph 1, Item 8 Rules Section	Description of Test	Result
1	Frequency Tolerance	Compliant
2	Occupied Bandwidth	Compliant
3	Output Power Tolerance	Compliant
4	Unwanted Emission Strength	Compliant
5	Secondary Radiated Emission Strength	Not Applicable
6	Transmission time restriction	Compliant
7	Radio Emission Stop Function	Applicable
8	Interference Prevention Function	Compliant
9	Construction Protection Confirmation	Compliant

Note:

Not Applicable: EUT has no standalone receiving mode, receivers used in combination with permanently co-located transmitters continuously transmitting.

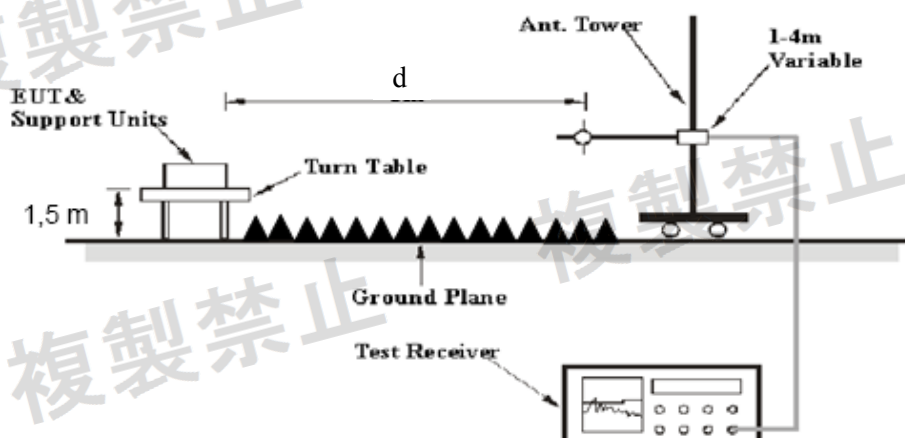
1 - FREQUENCY TOLERANCE

Limit

Within the designated frequency band: 57~64 GHz.

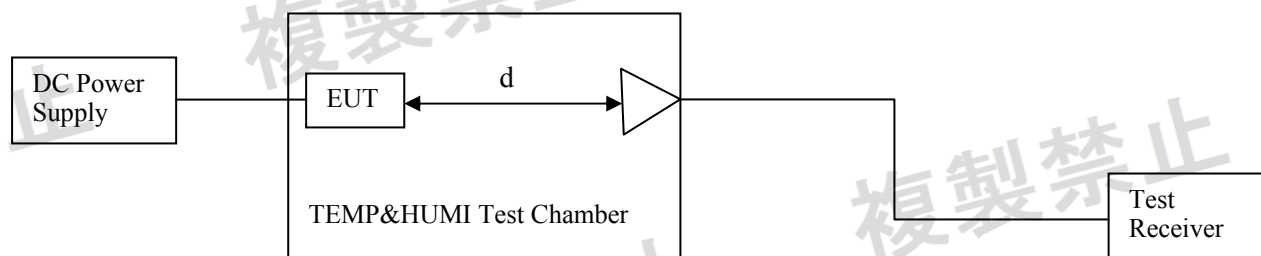
Test Procedure

❖ Measurement System Diagram



Note: $d = 1\text{m}$

❖ Measurement System Diagram (Extreme temperature condition)



Note: $d = 1\text{m}$

❖ Spectrum Analyzer Conditions

- Span: Wide enough to capture the complete power envelope, including all sidebands
- RBW: 1MHz
- VBW: 3MHz
- Sweep time: Auto, Marker: Marker Off
- Log scal: 10dB/Div, Data points : 501points (400 points or more)
- Detection: Positive Peak, Sweep mode: Continuous

❖ Test Procedure

1. EUT and measurement system setup as Measurement System Diagram;
2. Spectrum analyzer setup as Spectrum Condition;
3. EUT was set into operating mode;
4. Turn the turning table around;
5. Wait the trace of spectrum analyzer stabilization, marking as requirements;
6. Capture the trace or recorded the data.
7. Repeat under other environment conditions to measurement.

1. Vibration test:

Set the vibration test system as the table below:

Frequency	ASD(Acceleration Spectral Density) random vibration
From 5Hz to 20Hz	0.96m ² /s ³
Exceeding 20Hz to 500Hz	-3dB/Octave

Start the vibration test system,

Test the frequency tolerance,

Record the test result.

2. Temperature test

Place the device to be tested in the temperature and humidity tester in the non-operation state and set the temperature of the temperature and humidity tester to a low temperature while in this condition.

The low temperature is 0℃, -10℃ and -20℃, use the minimum value within the range of the specification of the device to be tested.

The high temperature is 40℃, 50℃ and 60℃, use the highest value within the range of the specification of the device to be tested.

Leave it in this condition for 1hour.

Apply the prescribed power supply voltage to operate to device to be tested in the temperature and humidity tester.

Test the frequency tolerance,

Record the test result.

3. Humidity Test

Place the device to be tested in the temperature and humidity tester in the non-operating state. While this condition remains, set the temperature to 35℃ and the relative humidity to 95% or the maximum or the maximum humidity in the specification of the device to be tested in the temperature and humidity tester.

Leave it in this condition for 4 hours.

After this time, the setting of the temperature and humidity tester is changed back to the normal temperature and normal humidity and, after confirming that there is no condensation, operate the device to be tested by applying the prescribed power supply voltage.

Test the frequency tolerance,

Record the test result.

4. Voltage Fluctuation Test

Set the power supply to test voltage,

Test the frequency tolerance

Record the test result.

Test Data**Test Result:** Compliant*Test Mode: Transmitting*

Test Condition	Low Frequency (GHz)	High Frequency (GHz)	f_L Limit (GHz)	f_H Limit (GHz)
TC1	60.5379	62.6748	57	64
TC4	60.5379	62.6702	57	64
TC5	60.5379	62.6794	57	64
TC6	60.5379	62.6794	57	64
TC7	60.5379	62.6794	57	64
TC8	60.5379	62.6794	57	64

Voltage Fluctuation Test	TC1	Temp: 25°C	3.6Vdc
	TC2		3.24Vdc
	TC3		3.96Vdc
Environment Test	TC4	Voltage: 3.6Vdc	Low Temp: -20°C
	TC5		High Temp: 55°C
	TC6	Voltage: 3.6Vdc; Temp: 35°C	Humidity: 95%
Vibration Test	TC7	Voltage: 3.6Vdc; Temp: 25°C	Amplitude: 3mm
	TC8		Amplitude: 1mm

Note: extreme voltage was declared by manufacture.

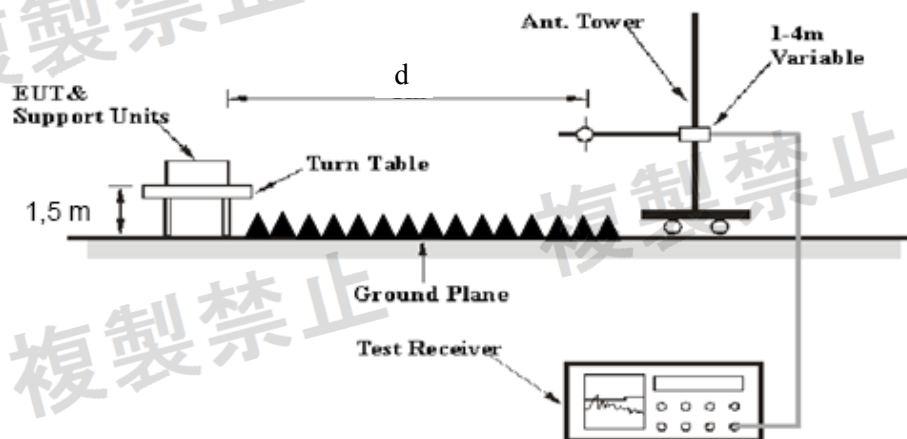
2 - OCCUPIED BANDWIDTH

Limit

Occupied bandwidth: 7 GHz

Test Procedure

❖ Measurement System Diagram



Note: d = 1m

❖ Spectrum Analyzer Conditions

- Span: Wide enough to capture the complete power envelope, including all sidebands
- RBW: 1MHz
- VBW: 3MHz
- Sweep time: Auto, Marker: Marker Off
- Log scal : 10dB/Div, Data points : 501points (400 points or more)
- Detection: Positive Peak, Sweep mode: Continuous

❖ Test Procedure

1. EUT and measurement system setup as Measurement System Diagram;
2. Spectrum analyzer setup as Spectrum Condition;
3. EUT was set into operating mode;
4. Turn the turning table around;
5. Wait the trace of spectrum analyzer stabilization, marking as requirements;
6. Capture the trace or recorded the data.
7. Repeat under other voltage conditions to measurement.

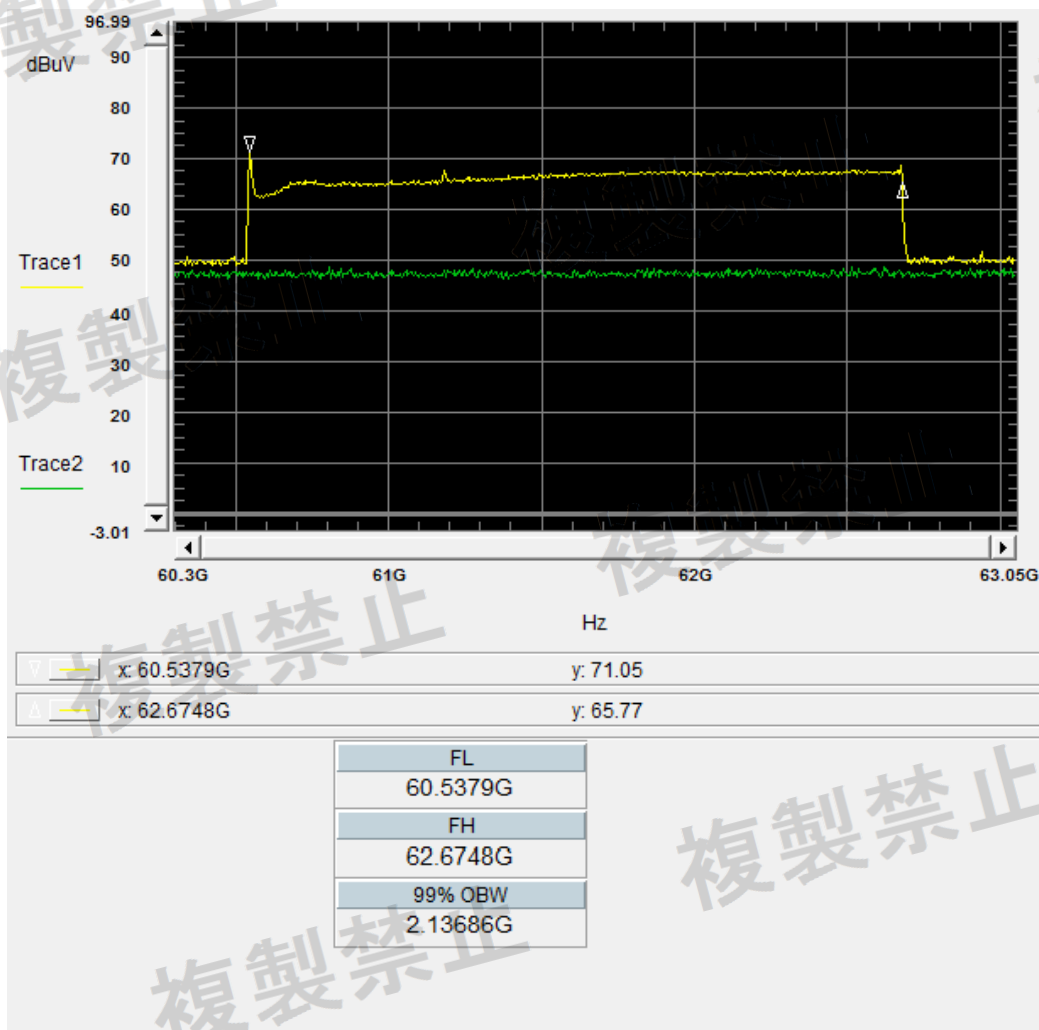
Test Data

Test Result: Compliant

Please refer to the below table and test plot for normal voltage.

Test Condition	Frequency (GHz)	Occupied bandwidth (MHz)	Limit (MHz)
NV	61.6	2136.86	≤ 7000

Occupied Bandwidth



ProjectNO: 2502U64589E-RF Tester: Alan Xie
Date: 16. Jul. 2025

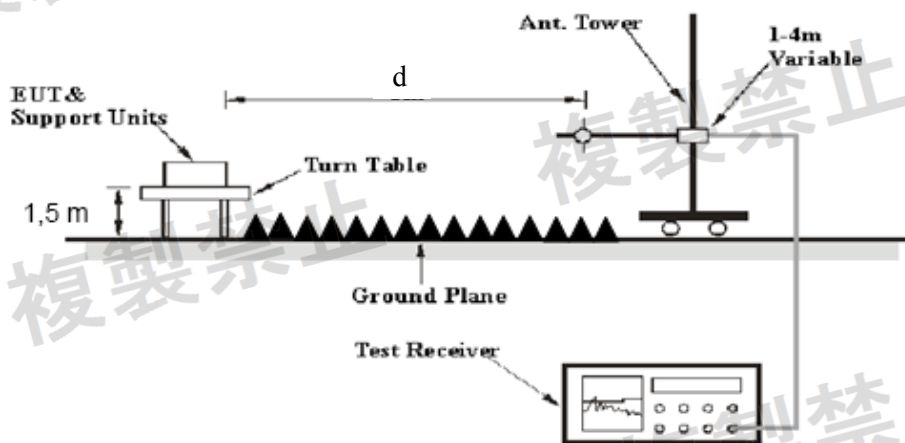
3 - OUTPUT POWER AND OUTPUT POWER TOLERANCE

Limit

- The output power should 10mW or less (Peak).
- The Output Power Tolerance must be within +50%, -70%.
- EIRP should 13dBm or less.

Test Procedure

❖ Measurement System Diagram



Note: $d = 1\text{m}$

❖ Spectrum Analyzer Conditions

- Frequency Center: Frequency to measure
- RBW : 1MHz
- VBW : 3MHz
- Sweep Mode: continues Sweep
- Detection: Peak
- Log scale : 10dB/Div, Data points : 501points (400 points or more)
- Reference level : Enough level for maximum dynamic range

❖ Test Procedure

1. EUT and measurement system setup as Measurement System Diagram;
2. Spectrum analyzer setup as Spectrum Condition;
3. EUT was set into operating mode;
4. Turn the turning table around;
5. Wait the trace of spectrum analyzer stabilization, marking as requirements;
6. Capture the trace or recorded the data.
7. Repeat under other voltage conditions to measurement.

Test Data**Test Result:** Compliant**FMCW**

Test Condition	Frequency (MHz)	Receiver Reading (dBμV)	Substituted Method		Absolute Level (dBm)	Limnt (dBm)
			Substituted Level (dBm)	Antenna Gain (dBi)		
NV	61.6	74.79	-11.85	24.1	12.25	13

Declared power		4	mW	Antenna gain		7.43	dBi
Test Condition	Frequency (MHz)	Conducted power (dBm)	Antenna output Peak power (mW)		Antenna output tolerance (%)		EIRP (dBm)
			Result	Limit	Result	Limit	
NV	61.6	4.82	3.034	≤ 10	-24.15	-70~+50	12.25

Note:

Absolute Level = Substituted Level + Antenna Gain

Conducted power (dBm) = EIRP (dBm) – Antenna Gain

4 - UNWANTED EMISSION STRENGTH

Limit

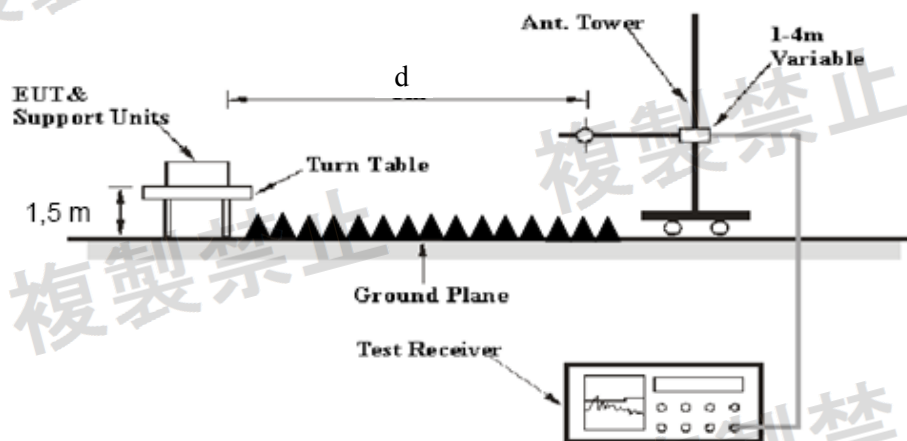
55.62GHz or less: -30dBm/MHz or less

Over 55.62GHz, 67.5GHz or less: -26dBm/MHz or less (except designated frequency band)

Over 67.5GHz: -30dBm/MHz or less

Test Procedure

❖ Measurement System Diagram



Note:

Below 40GHz, $d = 3\text{m}$

40~90GHz, $d = 1\text{m}$

Above 90GHz, $d = 0.5\text{m}$

❖ Spectrum Analyzer Conditions

- Sweep the spectrum analyser (or equivalent equipment) over a frequency range and measure the power of spurious emission.

❖ Test Procedure

1. EUT and measurement system setup as Measurement System Diagram;
2. Spectrum analyzer setup as Spectrum Condition;
3. EUT was set into operating mode;
4. Turn the turning table around;
5. Wait the trace of spectrum analyzer stabilization, marking as requirements;
6. Capture the trace or recorded the data.
7. Repeat under other voltage conditions to measurement.

Test Data**Test Result:** Compliant*Test Mode: Transmitting*

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

For below 40GHz test:

Absolute Level = Substituted Level + Antenna Gain - Cable Loss

Margin = Limit- Absolute Level

For above 40GHz test:

Absolute Level = Substituted Level + Antenna Gain

Margin = Limit- Absolute Level

Note3: For Below 1G, the limit was reduced by 10dBc when the RBW setting was reduced to one tenth (100kHz).

Note4: The test frequency range is from 30MHz to 2 times the highest center frequency.

<18GHz

Test Condition	Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
				Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
NV	311.60	H	47.64	-60.79	0.00	0.20	-60.99	-40.00	20.99
	262.80	V	46.40	-61.32	0.00	0.18	-61.50	-40.00	21.50
	1574.23	H	55.13	-61.23	9.32	0.42	-52.33	-30.00	22.33
	3612.14	V	54.76	-58.16	10.67	0.73	-48.22	-30.00	18.22

18-40GHz

Test Condition	Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
				Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
NV	23542.630	H	36.15	-72.1	21.8	1.9	-52.2	-30.0	22.2
	23664.850	V	36.03	-71.8	21.8	1.9	-51.9	-30.0	21.9

40-55.62GHz

Test Condition	Frequency (GHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method		Absolute Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
				Substituted Level (dBm)	Antenna Gain (dBi)			
NV	40.57	H	30.74	-59.18	24	-35.18	-30	5.18
	40.92	V	30.93	-58.94	24	-34.94	-30	4.94

55.62-57GHz&64G-67.5GHz

Test Condition	Frequency (GHz)	Polar	Receiver Reading (dBμV)	Substituted Method		Absolute Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		(H/V)		Substituted Level (dBm)	Antenna Gain (dBi)			
NV	55.84	H	31.54	-56	24	-32.00	-26	6.00
	55.53	V	31.35	-56.24	24	-32.24	-26	6.24
	66.18	H	31.26	-54.67	24.1	-30.57	-26	4.57
	66.37	V	31.19	-54.71	24.1	-30.61	-26	4.61

>67.5GHz

Test Condition	Frequency (GHz)	Polar	Receiver Reading (dBμV)	Substituted Method		Absolute Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		(H/V)		Substituted Level (dBm)	Antenna Gain (dBi)			
NV	90.63	H	30.38	-59.26	24.2	-35.06	-30	5.06
	90.18	V	30.25	-59.44	24.2	-35.24	-30	5.24

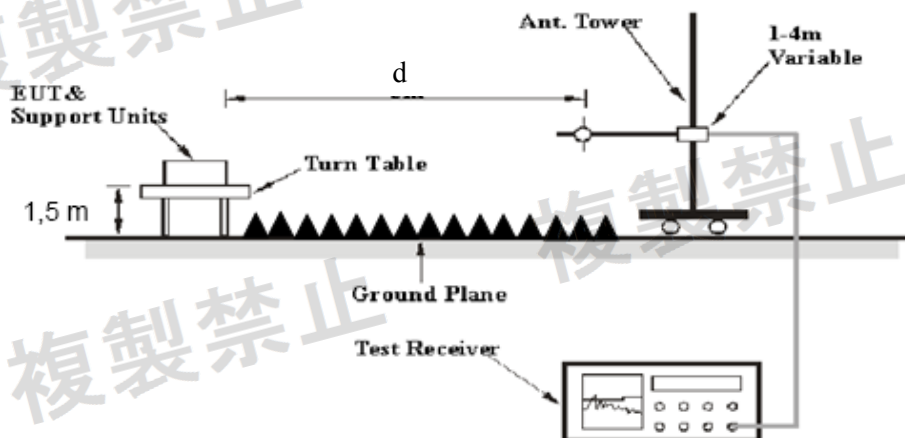
6 - TRANSMISSION TIME RESTRICTION

Requirement

3.3ms or less per 33ms

Test Procedure

❖ Measurement System Diagram



Note: $d = 1\text{m}$

❖ Spectrum Analyzer Conditions

- Span: 0Hz
- RBW: 8MHz
- VBW: 8MHz
- Sweep time: Wide enough to capture the complete duty cycle
- Log scal : 10dB/Div, Data points : 501points (400 points or more)
- Detection: Positive Peak, Sweep mode: Single

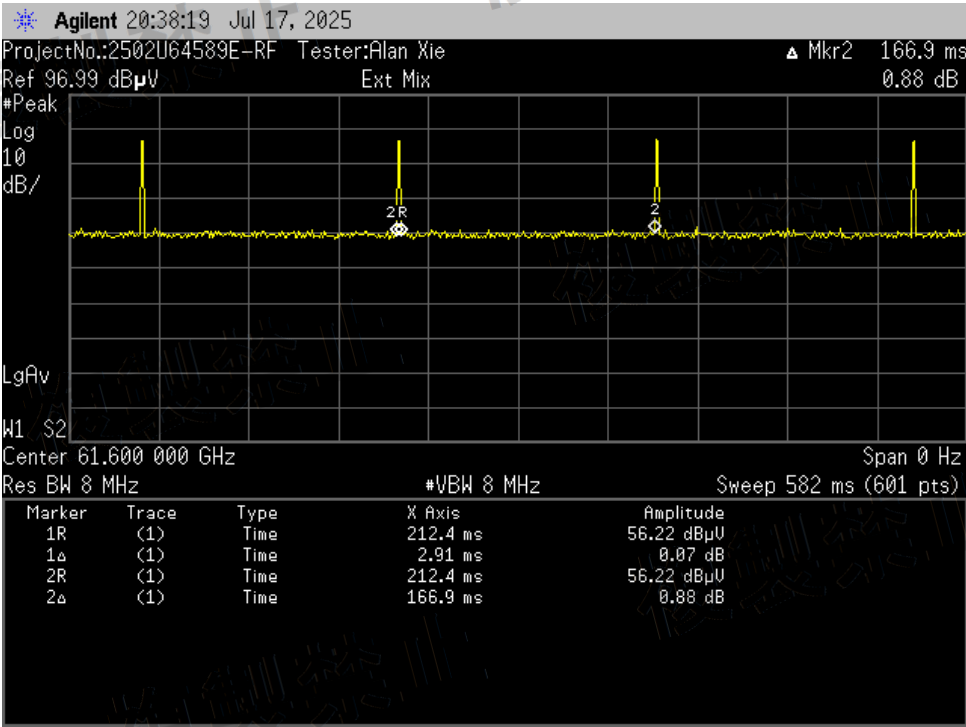
❖ Test Procedure

1. EUT and measurement system setup as Measurement System Diagram;
2. Spectrum analyzer setup as Spectrum Condition;
3. EUT was set into operating mode;
4. Wait the trace of spectrum analyzer stabilization, marking as requirements;
5. Capture the trace or recorded the data.

Test Data

Test Result: Compliant

Test Frequency (GHz)	Observation Time (ms)	Transmitter On (ms)	Limit
61.6	33	2.91	<3.3ms Per 33ms



7 - AUTOMATIC STOP FUNCTION RADIO WAVES

Limit

It shall have a function to stop the emission of radio waves except during measurement.

Confirmation Result

Compliant, the EUT can stop the emission controlled by software program.

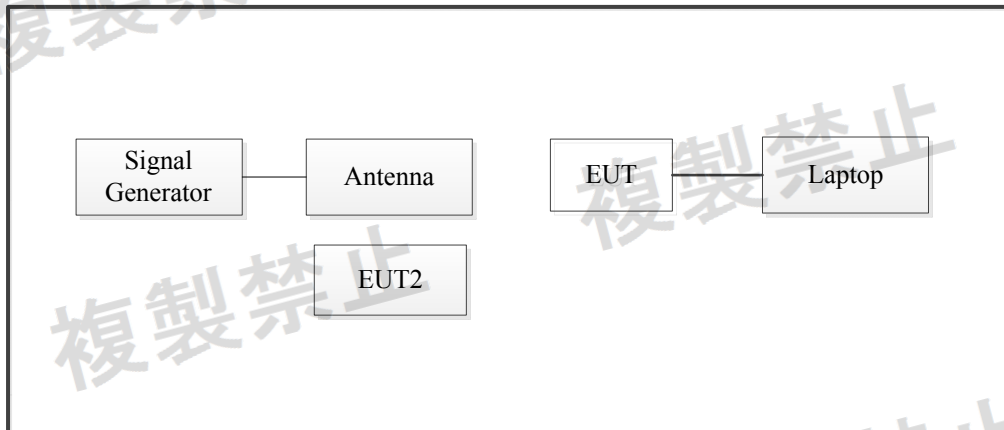
8 - INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

Measurement System Diagram



- ❖ 1. Turn the SG on to transmit un-modulated signal, at the centre frequency, and check if any Identification error occurred.
- ❖ 2. Turn the EUT2 on to transmit the same modulated signal as EUT, and check if any Identification error occurred.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	E6410	GMLGPM1
Anker Japan Co., Ltd.	eufyCam S4	T8172	34P0-6

Test Result

Compliant, the EUT worked as usual, no Identification error occurred, the EUT can identify other radio station(s).

9 - CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

Compliant, The EUT (include RF antenna) was locked by screws, the EUT can't be opened easily. Please refer the EUT photo.

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2502U64589E-RF-EXP EUT External photos and 2502U64589E-RF-INP EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502U64589E-RF-TSP Test Setup Photos.

******END OF REPORT******