

Article 2 Paragraph 1, item 19

TEST REPORT

For

Laser Cutter And Engraver

**MODEL NUMBER: Creality Falcon A1C, Creality Falcon A1C 10W,
Creality Falcon A1C 5W, Creality Falcon A1C 5W+1.2W**

REPORT NUMBER: E04A26041085J00702

ISSUE DATE: August 7, 2026

Prepared for

**Shenzhen Creality Ecosystem Technology Co., Ltd.
Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen,
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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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Guangdong Global Testing Technology Co., Ltd.**

Revision History			
Rev.	Issue Date	Revisions	Revised By
V0	August 7, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Result
Frequency tolerance	Article 2 Paragraph 1, item 19	Pass
Antenna power	Article 2 Paragraph 1, item 19	Pass
Spurious emission intensity	Article 2 Paragraph 1, item 19	Pass
Occupied bandwidth	Article 2 Paragraph 1, item 19	Pass
Receiver – limit of secondarily emitted radio wave strength	Article 2 Paragraph 1, item 19	Pass
Radio Interference prevention function	Article 2 Paragraph 1, item 19	Pass
Carrier sense capability	Article 2 Paragraph 1, item 19	Pass

*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 < Article 2 Paragraph 1, item 19> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Creality Ecosystem Technology Co., Ltd.
Address: Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131

Manufacturer Information

Company Name: Shenzhen Creality Ecosystem Technology Co., Ltd.
Address: Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131

EUT Information

Product Description: Laser Cutter And Engraver
Model: Creality Falcon A1C
Series Model: Creality Falcon A1C 10W, Creality Falcon A1C 5W, Creality Falcon A1C 5W+1.2W
Brand: 
Sample Received Date: May 28, 2026
Sample Status: Normal
Sample ID: A26041085 001
Date of Tested: May 28, 2026 to August 7, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
Article 2 Paragraph 1, item 19	Pass

Prepared By:



Approved By:

Alan He
Laboratory Manager

Checked By:



Alan He
Laboratory Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard Article 2 Paragraph 1, item 19

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p>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.</p>
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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
Occupied bandwidth	1.96	±9.2 PPM
Frequency tolerance	1.96	±9.0 PPM
Dwell time	1.96	±0.57%
Antenna power	1.96	±1.5 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
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Laser Cutter And Engraver	
Model		Creality Falcon A1C	
Series Model		Creality Falcon A1C 10W, Creality Falcon A1C 5W, Creality Falcon A1C 5W+1.2W	
Model difference		The difference of the models are laser module, others are the same. When selling the product, there are various combinations of laser modules available. Refer to the following table in detail.	
		Model	laser module
		Creality Falcon A1C	1.2W laser module
		Creality Falcon A1C 10W	10W laser module
		Creality Falcon A1C 5W	5W laser module
		Creality Falcon A1C 5W+1.2W	5W laser module and 1.2W laser module
		When the product is operating normally, only one laser module is required. Creality Falcon A1C 5W uses adapter2, while other models use adapter1.	
Adapter1 Ratings		MODEL: AK120WG-2400500W1 INPUT: 100-240V~ 50/60Hz 2.0A OUTPUT: 24.0V==5.0A 120.0W	
Adapter2 Ratings		MODEL: AK65WG-2400300W1 INPUT: 100-240V~ 50/60Hz 1.5A OUTPUT: 24.0V==3.0A 72.0W	
Power Supply	AC	100V/60Hz	
	DC	24V	

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2472 MHz
Type of Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Rated Antenna Power	5 mW/MHz for 802.11b 4 mW/MHz for 802.11g 3 mW/MHz for 802.11n HT20 2 mW/MHz for 802.11n HT40
Antenna Type:	FPC Antenna
Antenna Gain:	1.88 dBi
EUT Test software:	EspRFTTestTool_v4.7_Manual

5.2. CHANNEL LIST

Channel List for IEEE 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452	13	2472
2	2417	6	2437	10	2457	/	/
3	2422	7	2442	11	2462	/	/

4	2427	8	2447	12	2467	/	/
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Channel List for IEEE 802.11n (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442	11	2462	/	/
4	2427	8	2447	/	/	/	/
5	2432	9	2452	/	/	/	/
6	2437	10	2457	/	/	/	/

5.3. TEST POWER SUPPLY

Test Voltage: 24V DC

The EUT is supplied with 24V DC The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from 24V DC to the test equipment is fluctuated by $\pm 10\%$, So all measurement was conducted on the rated voltage (24V DC).

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
802.11b	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11g	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11n HT20	CH 1(Low Channel), CH 7(MID Channel), CH 13(High Channel)	2412 MHz, 2442 MHz, 2472 MHz
802.11n HT40	CH 3(Low Channel), CH 7(MID Channel), CH 11(High Channel)	2422 MHz, 2442 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

WORST-CASE CONFIGURATIONS

Modulation Type	Data Rate
802.11b	1Mbps
802.11g	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		EspRFTTestTool_v4.7_Manual					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 7	CH 13	CH 3	CH 7	CH 11
802.11b	1	6	7	8	/		
802.11g	1	1	1	1			
802.11n HT20	1	2	2	2			
802.11n HT40	1	/			0	0	0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2472	FPC Antenna	1.88

Test Mode	Transmit and Receive Mode	Description
802.11b	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11g	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11n HT20	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11n HT40	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

No.	Equipment	Manufacturer	Model No.	Serial No.
1	PC	Lenovo	T14	/
2	Adapter	Shenzhen Guijin Technology Co.,Ltd.	AK120WG-2400500W1	/

5.8. SETUP DIAGRAM



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	2025/08/25	2026/08/24
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/08/25	2026/08/24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/08/25	2026/08/24
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/08/25	2026/08/24
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/08/25	2026/08/24
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/08/25	2026/08/24
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Note: The instruments and equipment listed in the table are calibrated by CCIC, and the calibration method is referred to item ii c) of Article 24-2 paragraph 4.

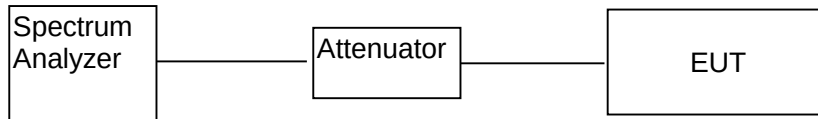
7. TEST RESULTS

7.1. FREQUENCY ERROR

LIMIT

+/- 50×10^{-6} or less (50ppm)

TEST CONFIGURATION



TEST PROCEDURE

1. Configure EUT according clause 2.3 and 4.3
2. Set EUT work in carrier Tx mode as described in clause 2.3
3. Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the channel under test.
Resolution BW: 10KHz.
Video BW: 10KHz.
Span: 1MHz.
Detector: Peak.
Trace Mode: Max Hold.
4. When the trace is complete, find the peak value of the power envelope and record the frequency.

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

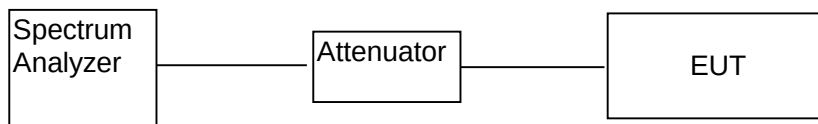
Please refer to Appendix B

7.2. ANTENNA POWER

LIMIT

Item	Mode	Limits
Antenna Power Density	FH form 2400~2483.5MHz	$\leq 3\text{mW/MHz}$
	OFDM from 2400~2483.5MHz	$\leq 5\text{mW/MHz}$ (HT40)
	OFDM, DS from 2400~2483.5MHz	$\leq 10\text{mW/MHz}$ (HT20)
	Other from 2400~2483.5MHz	$\leq 10\text{mW}$
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)	

TEST CONFIGURATION



TEST PROCEDURE

- Set the spectrum analyzer as follows to search the frequency giving the maximum antenna power:
 Center frequency: Center frequency of service bandwidth (e.g. 2412 MHz)
 Frequency sweep width: 3 MHz
 Resolution bandwidth: 1 MHz
 Video bandwidth: Approximately 3 times the resolution bandwidth (e.g. 3 MHz)
 Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be included per data point).
 Trigger condition: Free run
 Data points: 400 points or more (e.g. 1001 points)
 Sweep mode: Continuous sweep
 Detection mode: Positive peak
 Indication mode: Maximum hold
- Set the spectrum analyzer as follows for measuring antenna power. Connect the power meter to the IF output of spectrum analyzer, and calibrate the indication of the power meter to the output value of the EUT.
 Center frequency: Frequency giving the maximum power (searched frequency)
 Frequency sweep width: 0 Hz
 Resolution bandwidth: 1 MHz
 Video bandwidth: Approximately the same bandwidth as resolution bandwidth
 Sweep mode: Continuous sweep

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix B

Note:

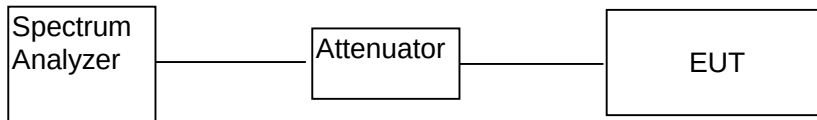
1. $\text{Antenna Power(mW/MHz)} = 10^{(\text{Power(dBm/MHz)} / 10)}$
2. $\text{Tolerance(\%)} = (\text{Antenna Power(mW/MHz)} - \text{Declared Power(mW/MHz)}) / \text{Declared Power(mW/MHz)} * 100$
3. $\text{Antenna Power(dBm/MHz)} = \log_{10}(\text{Antenna Power(mW/MHz)}) * 10$
4. $\text{EIRP Power(dBm/MHz)} = \text{Antenna Power(dBm/MHz)} + \text{Gain(dBi)}$

7.3. OCCUPIED BANDWIDTH

LIMIT

Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM $\leq$ 26 MHz, DS $\leq$ 26 MHz; Others $\leq$ 26 MHz;
26 MHz $\leq$ HT40 $\leq$ 40 MHz

TEST CONFIGURATION



TEST PROCEDURE

1. Spectrum analyzer shall be follows:
 Center frequency: Center frequency of service band (e.g. 2402 MHz).
 Frequency sweep width: Approximately 2 to 3 times of the tolerance value (e.g. 3 MHz).
 Resolution bandwidth: Approximately 3% of tolerance value (e.g. 100 kHz)
 Video bandwidth: Approximately the same as the resolution bandwidth.
 Y-axis scale: 10dB/Div.
 Input level: Carrier level shall be enough higher than floor noise of spectrum analyzer.
 Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be included per data point.)
 Data points: 400 points or more (e.g. 1001 points)
 Sweep mode: Continuous
 Detection mode: Positive peak
 Display mode: Maximum hold
2. The values measured by the spectrum analyzer shall be processed by external or internal computer.

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix B

7.4. SPURIOUS EMISSION INTENSITY

LIMIT

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 100 kHz bandwidth at frequency f other than frequency band used shall be as follows:

a. $30\text{MHz} \leq f < 1,000\text{MHz}$ $0.25 \mu\text{W}$ or less (-36dBm or less)

Note: $\text{dBm} = \log_{10}(\mu\text{W}/1000) * 10$.

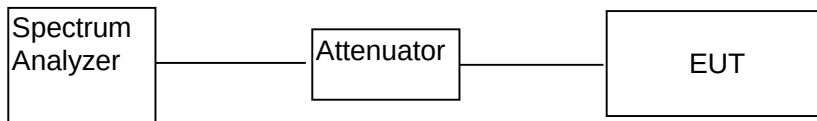
Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ $25 \mu\text{W}$ or less (-16dBm or less)

b. $1,000\text{MHz} \leq f < 2,387\text{MHz}$ and $2,496.5\text{MHz} < f$ $2.5 \mu\text{W}$ or less (-26dBm or less)

Note: $\text{dBm} = \log_{10}(\mu\text{W}/1000) * 10$.

TEST CONFIGURATION



TEST PROCEDURE

Spectrum Analyzer	Setting
Attenuation	Auto
RBW	100 kHz: $30\text{ MHz} \leq f < 1000\text{ MHz}$ 1 MHz: $1000\text{ MHz} \leq f < 5\text{th Harmonics}$
VBW	100 kHz: $30\text{ MHz} \leq f < 1000\text{ MHz}$ 1 MHz: $1000\text{ MHz} \leq f < 5\text{th Harmonics}$
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than $0.25\mu\text{W}$.
3. Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W}$.
4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than $25\mu\text{W}$.
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than $25\mu\text{W}$.
6. SA adjusted to start frequency 2496.5MHz and stop frequency 13000MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W}$.

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix B

NOTE: $1\mu W = (10^{(dBm/10)}) * 1000$.

7.5. LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

LIMIT

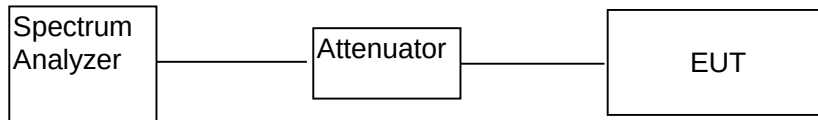
The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

a. $f < 1,000\text{MHz}$ 4 nW or less (-54dBm or less)

b. $1,000\text{MHz} \leq f$ 20 nW or less (-47dBm or less)

Note: $\text{dBm} = \log_{10}(\text{nW}/1000000) * 10$.

TEST CONFIGURATION



TEST PROCEDURE

Spectrum Analyzer	Setting
Attenuation	Auto
RBW	100 kHz: $30\text{ MHz} \leq f < 1000\text{ MHz}$ 1 MHz: $1000\text{ MHz} \leq f < 5\text{th Harmonics}$
VBW	100 kHz: $30\text{ MHz} \leq f < 1000\text{ MHz}$ 1 MHz: $1000\text{ MHz} \leq f < 5\text{th Harmonics}$
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

1. EUT have the continuous reception mode and fixed only one channelize.
2. Start frequency 30MHz and Stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
3. Start frequency 1000MHz and Stop frequency 5th Harmonics. Search to mark peak reading value + cable loss shall be less than 20nW

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

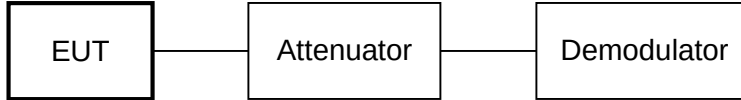
TEST RESULTS

Please refer to Appendix B

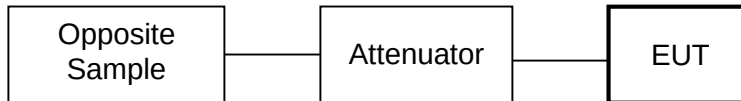
NOTE: $\text{nW} = (10^{(\text{dBm}/10)}) * 1000000$.

7.6. RADIO INTERFERENCE PREVENTION FUNCTION

(1) In case identification code is transmitted



(2) In case identification code is received



(3) Measuring Equipment Conditions

The Demodulator shall demodulate the TX-signal transmitted by the EUT and be able to display the contents of the identification code.

The opposite sample shall be able to transmit TX-signal equivalent to the TX-signal transmitted by the EUT.

(4) Conditions of EUT

The EUT is set on the usual operating mode.

(5) Measurement Procedure

(1) In case the EUT possesses function to transmit identification code automatically
Predetermined identification code is transmitted by the EUT.

Verify the transmitted identification code.

(2) In case the EUT possesses function to receive identification code automatically
Predetermined identification code is transmitted by the opposite sample.

Verify the working of the normal communication.

Other code than the predetermined identification code is transmitted by the opposite sample.

Verify the EUT to stop transmitting or to display that the ID code is different.

TEST ENVIRONMENT

Temperature	25°C	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

Test Power	Normal Voltage
Test Mode	Signaling Mode
Test Result	Good, MAC Address: (e8: f6: 0a: bc: da: 9c)

7.7. CARRIER SENSE CAPABILITY

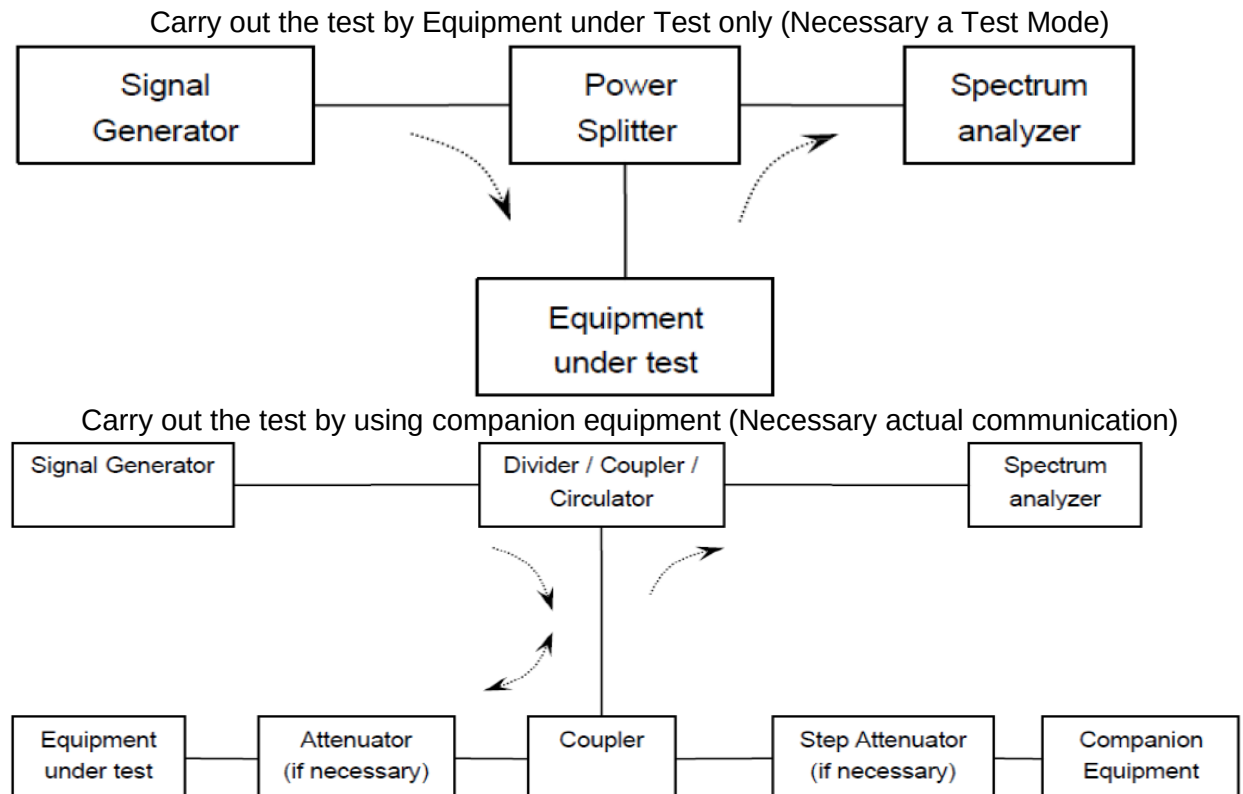
LIMIT

Carrier sensing: When the equipment receives the radio wave which is transmitted from a radio station other than the communication partner station and the field strength at maximal gain direction of receiving antenna power is over 100mV/m, the equipment shall not transmit radio in the same frequency of the other station.

The equipment shall start to transmit after carrier sensing. However, if it is controlled in transmitting or receiving from other station and it transmits again within 4msec. after carrier sensing, carrier sensing can be omitted.

Article 49.20 of the „Ordinance Regulating Radio Equipment “The transmitting equipment with OFDM which occupied bandwidth is 26 – 38MHz and its mean power is 5mW/1MHz shall have a carrier sensing function.

TEST CONFIGURATION



TEST PROCEDURE

- Set the spectrum analyzer as follow:
Resolution bandwidth: 1 MHz
Video bandwidth: 1MHz
Sweep Time: AUTO (Minimum time to ensure measurement accuracy.)
Sweep mode: Continuous Sweep
Detection mode: Positive peak
Storage Mode: Normal
Y-axis scale: 10 dB/Div
Trigger: Free Run

TEST ENVIRONMENT

Temperature	25℃	Relative Humidity	46%
Atmosphere Pressure	101kPa		

TEST RESULTS

Test Power	Normal Voltage
Test Mode	802.11n(HT40)
Test Result	Good

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION



APPENDIX: PHOTOGRAPHS OF THE EUT

Please refer to the report: E04A26041085J00701.

END OF REPORT