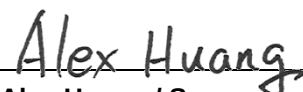


CE DFS Test Report

Equipment : 802.11ax Wi-Fi 6 + BT5.4 Module
Model No. : Veda IF912
Brand Name : Ezurio
Applicant : Ezurio LLC
Address : W66N220 Commerce Court, Cedarburg, WI
53012 United States Of America
Standard : EN 301 893 V2.2.1 (2024-11)
Received Date : Jan. 12, 2026
Tested Date : May 26, 2026
Operating Mode : Slave without radar detection

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Alex Huang / Supervisor

Approved by:

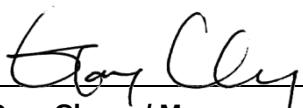

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
EY611203	Rev. 01	Initial issue	Aug. 06, 2026

Summary of Test Results

Ref. Std. Clause	Test Items	Measured	Result
4.2.6.2.5	Channel shutdown	Meet the requirement of limit.	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

Product Details

Model Name	Part No.	Product Name	Description
Veda IF912	453-00396	802.11ax Wi-Fi 6 + BT5.4 Module	Module, Veda IF912, SIP, Tri Band, No Embedded Memory, RF Trace Pin
	453-00397		Module, Veda IF912, SIP, Tri Band, Embedded Ext. Memory, 8M PSRAM, 8M Flash, RF Trace Pin

1.1.1 Specification of the Equipment under Test (EUT)

Frequency Range (GHz)	5.15~5.25, 5.25~5.35, 5.47~5.725, 5725~5850
Wireless Function	11a / HT20 / VHT20 / HE20
Operating Mode at DFS Band	Slave without ad hoc and radar detection function
Firmware / Software Version	IFX_Ezurio-H1CP-04022026-2

1.1.2 Antenna Details

Integrated Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Yageo / Chip Antenna	ANT1608LL 14R2460A	Chip	NA	2.3	0.1	0.1	1.8	2.5

External Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Ezurio / FlexMIMO 6E	EFD2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.8	3.8	3.8	3.8
Ezurio / FlexPIFA 6E	EFB2471A3 S-10MH4L	PIFA	MHF4L	2.2	3.9	3.9	3.9	3.9
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3 S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	4.4	4.4	4.4
Joymax Electronics / Dipole 6E	TWX-100BR S3B	Dipole	RP-SMA	2	4	4	4	4
Ezurio / FlexPIFA Dual Band	001-0021	PIFA	IPEX MHF4L	2.5	3	3	3	3
Ezurio / FlexPIFA Dual Band	EFB2455A3 S-15MH4L	PIFA	MHF1	2.5	3	3	3	3

1.2 Support Equipment List

Support Equipment List				
No.	Equipment	Brand Name	Model Name	Remark
1	Wi-Fi 6 AX6000 Dual-Radio Indoor Router	PRISM	MI12	FCC ID : 2AAS9-MI12
2	Laptop	DELL	LATITUDE-E5420	SN :B6FV9T1

1.3 Channel Loading/Data Streaming

☒	Test transmission sequence is from the Master to the Slave.
☒	Channel Shutdown, Off-Channel CAC Check and In-Service Monitoring with about 30% loading over 100 ms interval.
☐	No transmissions on channels being checked during a Channel Availability Check or during an Off Channel CAC check.

1.4 Off Channel CAC Feature Implemented

Off Channel CAC Feature Implemented	
☒	No
☐	Yes
If yes, specify the Off Channel CAC Time: Hours	
If the <i>Off Channel CAC Time</i> for the band 5600 MHz to 5650 MHz is different from the <i>Off-Channel CAC Time</i> for frequencies outside this band, please specify the <i>Off-Channel CAC Time</i> for the band	
If yes, specify the Off Channel CAC Time:5600 MHz to 5650 MHz: Hours	
Minimum Off-Channel CAC Time	

1.5 TPC Information

The DFS Related Operating Mode(s) of the Equipment			
Communication Mode		☒ IP Based (Load Based)	☐ Frame Based
IEEE Std. 802.11 Protocol	Frequency Range (MHz)	TPC (Transmit Power Control)	Passive Scan
ax HE20	☒ 5250-5350	Yes	Yes
	☒ 5470-5725	Yes	Yes
	☒ 5600-5650	Yes	Yes

1.6 DFS Parameters

Table D.1: DFS requirement values	
Parameter	Value
Channel Availability Check Time	60 seconds (see note 1)
Minimum Off-Channel CAC Time	6 minutes (see note 2)
Maximum Off-Channel CAC Time	4 hours (see note 2)
Channel Move Time	10 seconds
Channel Closing Transmission Time	1 second.
Non-occupancy period	Minimum 30 minutes
Note 1: For channels whose nominal channel bandwidth falls completely or partly within the band 5600 MHz to 5650 MHz, the CAC time shall be 10 minutes Note 2: For channels whose nominal channel bandwidth falls completely or partly within the band 5600 MHz to 5650 MHz, the off-channel CAC time shall be within the range 1 hour to 24 hours.	

Table D.2: Interference threshold values	
EIRP Spectral Density (dBm/MHz)	Value (see notes 1 and 2)
10	-62
Note 1: This is the level at the input of the receiver of an RLAN device with a maximum PSD of 10 dBm/MHz and assuming a 0 dBi receive antenna. For devices employing a different PSD and/or a different receive antenna assembly gain G (dBi), the radar detection threshold at the receiver input follows the following relationship: radar detection threshold (dBm) = -62 + 10 - PSD (dBm/MHz) + G (dBi). However, the radar detection threshold shall not be less than -64 dBm assuming a 0 dBi receive antenna gain. Note 2: Secondary devices with a maximum RF output power of less than or equal to 23 dBm EIRP do not have to implement radar detection unless these devices are used in fixed outdoor point-to-point or fixed outdoor point-to-multipoint applications	

Table D.3: Parameters of the reference DFS test signal		
Pulse width W [μs]	Pulse repetition frequency PRF [pps]	Pulses per burst [PPB]
1	700	18

Table D.4: Parameters of radar test signals

Radar test signal # (note 1 to 3)	Pulse width W [μs]		Pulse repetition frequency PRF (PPS)		Number of different PRFs	Pulses per burst for each PRF (PPB) (note 5)
	Min	Max	Min	Max		
1	0.5	5	200	1000	1	10 (note 6)
2	0.5	15	200	1600	1	15 (note 6)
3	0.5	15	2300	4000	1	25
4	20	30	2000	4000	1	20
5	0.5	2	300	400	2/3	10 (note 6)
6	0.5	2	400	1200	2/3	15 (note 6)
Note 1:	Radar test signal 1 to signal 4 are signals with constant PRF (see figure D.1). These radar test signals are intended to simulate also radars using a packet-based staggered PRF (see figure D.2).					
Note 2:	Radar test signal 4 is a modulated radar test signal. The modulation is a chirp modulation with a ±2,5 MHz frequency deviation					
Note 3:	Radar test signal 5 and radar test signal 6 are signals with single pulse-based staggered PRF using 2 or 3 different PRF values. For radar test signal 5, the difference between the PRF values chosen shall be between 20 PPS and 50 PPS. For radar test signal 6, the difference between the PRF values chosen shall be between 80 PPS and 400 PPS (see figure D.3)..					
Note 4:	Apart from off-channel CAC testing, the radar test signals shall only contain a single burst of pulses (see figure D.1, figure D.3 and figure D.4). For off-channel CAC testing, repetitive bursts shall be used for the total duration of the test (see figure D.2 and figure D.5 (see also clause 4.2.6.2.3, clause 5.4.8.2.1.4.2 and clause 5.4.8.2.1.4.3)).					
Note 5:	The total number of pulses in a burst is equal to the number of pulses for a single PRF multiplied by the number of different PRFs used					
Note 6:	For the CAC and off-channel CAC requirements, the minimum number of pulses (for each PRF) for any of the radar test signals to be detected in the band 5 600 MHz to 5 650 MHz shall be 18					

Table D.5: Detection probability

Parameter	Detection Probability (Pd)	
	Channels whose nominal bandwidth falls partly or completely within the 5 600 MHz to 5 650 MHz band	Other channels
CAC, Off-Channel CAC	99,99 %	60 %
In-Service Monitoring	60 %	60 %
Note:	Pd gives the probability of detection per radar test signal and represents a minimum level of detection performance under defined conditions	

1.7 Radar Test Signal

Figure D.1: General structure of a single burst / constant PRF based radar test signal

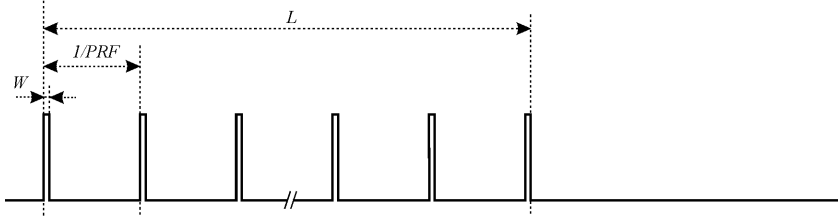


Figure D.2: General structure of a multiple burst / constant PRF based radar test signal

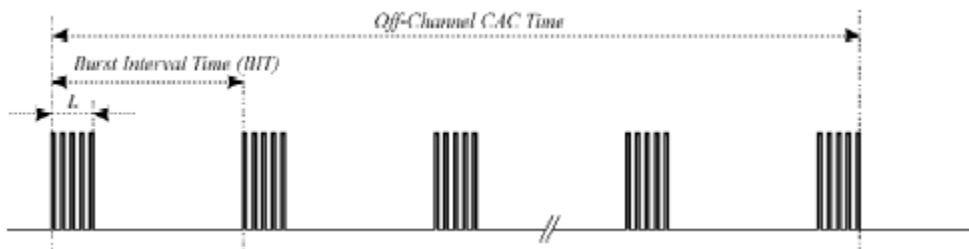


Figure D.3: General structure of a single burst/single pulse based staggered PRF radar test signal

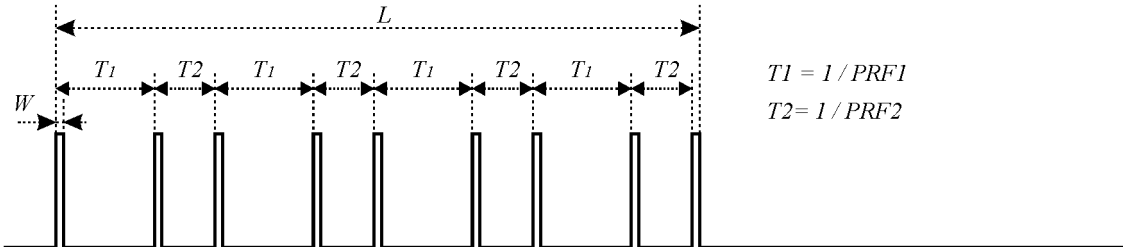


Figure D.4: General structure of a single burst / packet based staggered PRF radar test signal

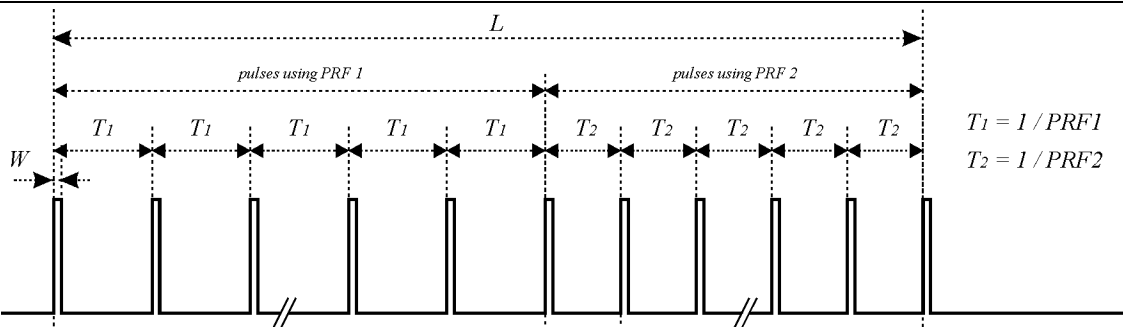
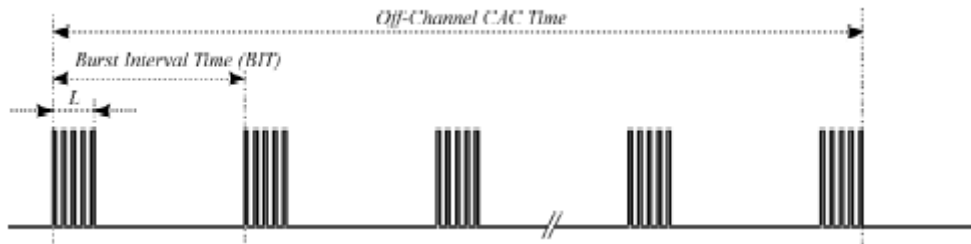


Figure D.5: Structure of a multiple burst / packet based staggered PRF based radar test signal



1.8 DFS Technical Requirements Specifications

Requirement	DFS Operational mode		
	Master	Slave without radar detection (see table D.2)	Slave with radar detection (see table D.2)
Channel Availability Check	Required	Not required	Required (note 2)
Off-Channel CAC (note 1)	Required	Not required	Required (note 2)
In-Service Monitoring	Required	Not required	Required
Channel Shutdown	Required	Required	Required
Non-Occupancy Period	Required	Not required	Required
Uniform Spreading	Required	Not required	Not required

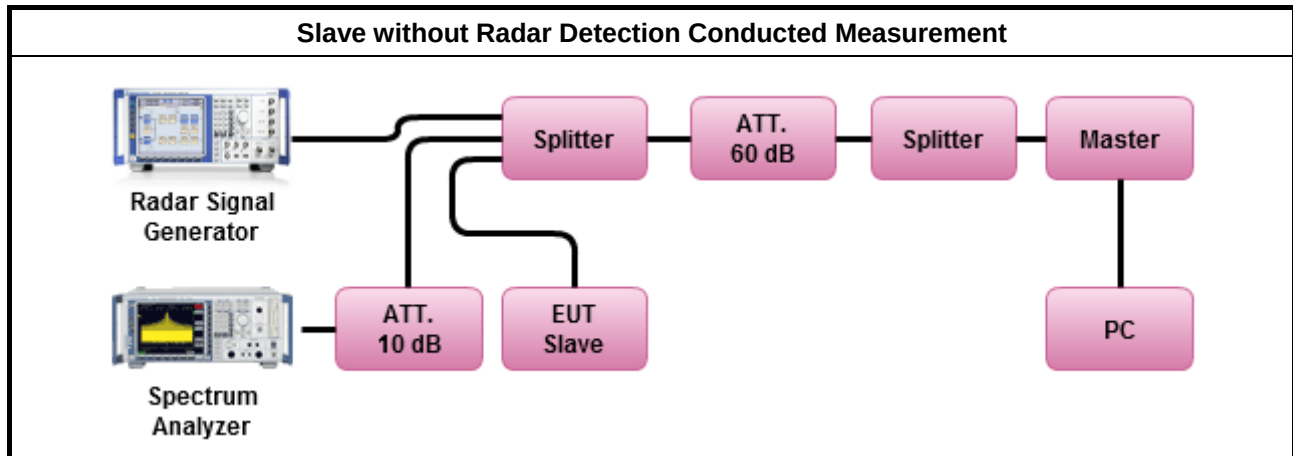
Note 1: If implemented

Note 2: A secondary device with radar detection is not required to perform a CAC or off-channel CAC at initial use of a channel but only before returning to the use of a channel where it has detected a radar signal by in-service monitoring. Where the secondary device with radar detection is under the control of its primary device and does not start transmissions on the channel until connected to that primary device, then the secondary device with radar detection does not have to perform a CAC or off-channel CAC and may rely on the CAC performed by the primary device to enable in-service monitoring.

1.9 Master DFS Threshold Level

DFS Threshold Level
DFS Threshold level: -64 dBm
Note 1: DFS Detection Threshold (dBm) = $-62 + 10 \cdot \text{EIRP Spectral Density (dBm/MHz)} + G_0(\text{dBi})$ The DFS Master Detection Threshold Level is $(-62\text{dBm}) + 10 - 14.89 + 2.17 \text{ dBi} = -64.72 \text{ dBm}$
Note 2: However, the DFS threshold level shall not be lower than -64 dBm assuming a 0 dBi receive antenna gain. If more than one antenna is intended for this TPC, range or power setting, the antenna gain of the antenna with the lowest gain shall be used.

1.10 Test Setup



1.11 The Equipment List

Test Site	DF01-WS				
Tested Date	May 26, 2026				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV7	101607	Feb. 06, 2026	Feb. 05, 2027
RF Cable-8M	HUBER+SUHNER	SUCOFLEX_104	22601/4	Oct. 09, 2025	Oct. 08, 2026
RF CABLE	woken	woken-S05	S/N:S05-141231-102	Oct. 09, 2025	Oct. 08, 2026
RF CABLE	woken	woken-S05	S/N:S05-141231-105	Oct. 09, 2025	Oct. 08, 2026
RF CABLE	woken	woken-S05	S/N:S05-141231-106	Oct. 09, 2025	Oct. 08, 2026
Vector signal generator	R&S	SMW200A	109619	Aug. 04, 2025	Aug. 03, 2026
Combiner(1X2)	WOKEN	0120A02201801O	DOM2AEW1A22	Oct. 11, 2025	Oct. 10, 2026
Combiner(1X4)	Marvelous Microwave	MVE8577	8577	Oct. 09, 2025	Oct. 08, 2026
Combiner(1X3)	MCLI	PS3-7	24940	Oct. 09, 2025	Oct. 08, 2026
Attenuator	woken	PE7013-10	10-1	Oct. 11, 2025	Oct. 10, 2026
Attenuator	woken	PE7013-10	10-2	Oct. 11, 2025	Oct. 10, 2026
Measurement Software	ICC	DFS	V1.3.30	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.12 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
DFS	DF01-WS	24°C / 67%	Jack Li

1.13 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	DF01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

1.14 Test Standards

According to the specification of EUT, the EUT must comply with following standard.

EN 301 893 V2.2.1 (2024-11)

1.15 Deviation from Test Standard and Measurement Procedure

None

1.16 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Time	$\pm 0.1\%$

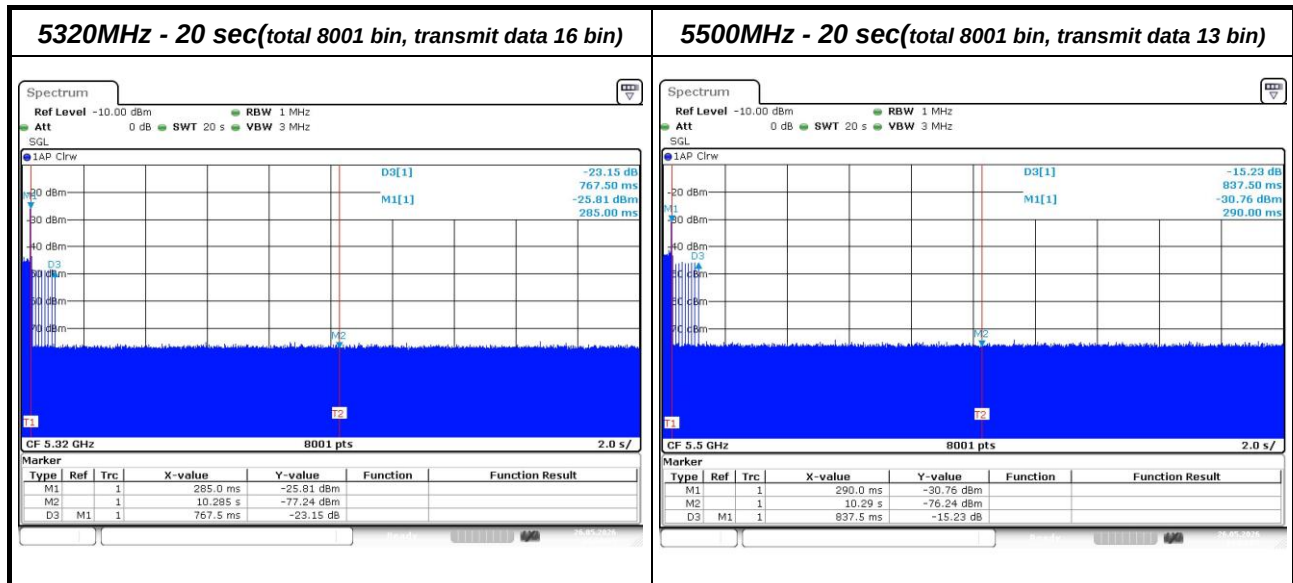
2 Test Result

2.1 Channel Shutdown

Test Method	
☒	Refer as EN 301 893, clause 5.3.2 for test channel. One channel out of the declared channels for this frequency range. If more than one nominal channel bandwidth has been declared for this sub-band, testing shall be performed using the lowest and highest nominal channel bandwidth. Where the declared channel plan includes channels whose nominal channel bandwidth falls completely or partly within the 5600 MHz to 5650 MHz band, the tests for the <i>Channel Availability Check</i> (and where implemented, for the <i>Off-Channel CAC</i>) shall be performed on one of these channels in addition to a channel within the band 5470 MHz to 5600 MHz or 5650 MHz to 5725 MHz band.
☒	Refer as EN 301 893, clause 5.4.8.2.1.6 for <i>Channel Shutdown</i> and <i>Non-Occupancy period</i> .
☒	Refer as EN 301 893, clause 5.4.8.2.1 for conducted measurement.
☒	For conducted measurements on devices with multiple transmit chains and receive chains. The power splitter/combiner shall be used to combine all the transmit/receive chains (antenna outputs) into a single test point. The insertion loss of the power splitter/combiner shall be taken into account.
☐	Refer as EN 301 893, clause 5.4.8.2.2 for radiated measurement.

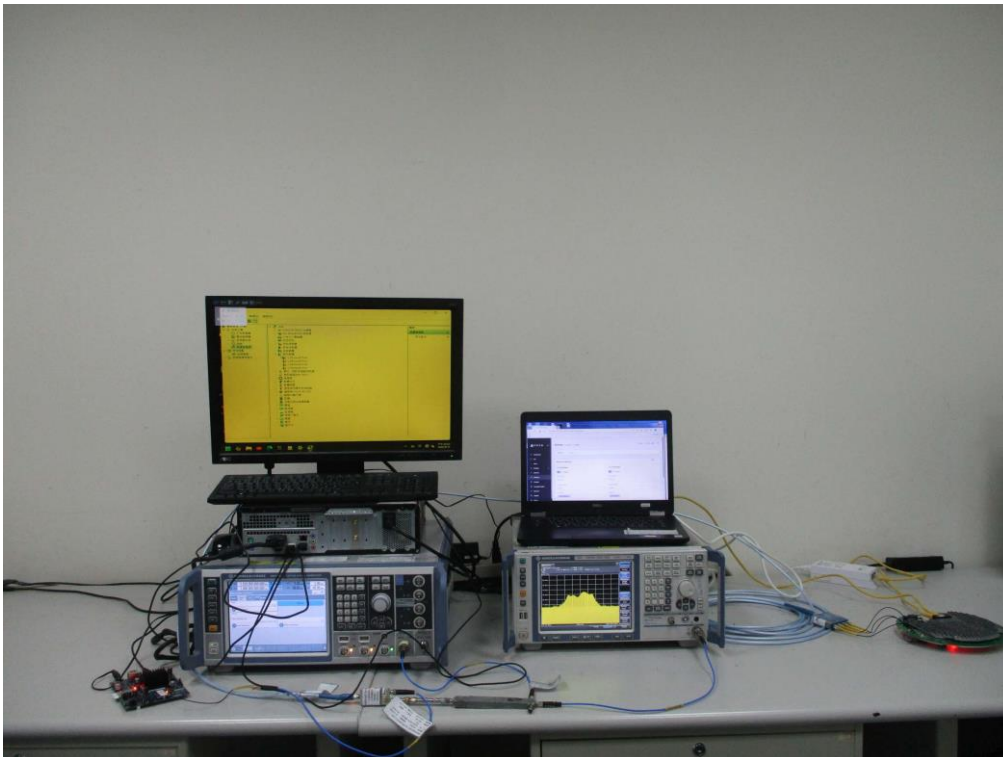
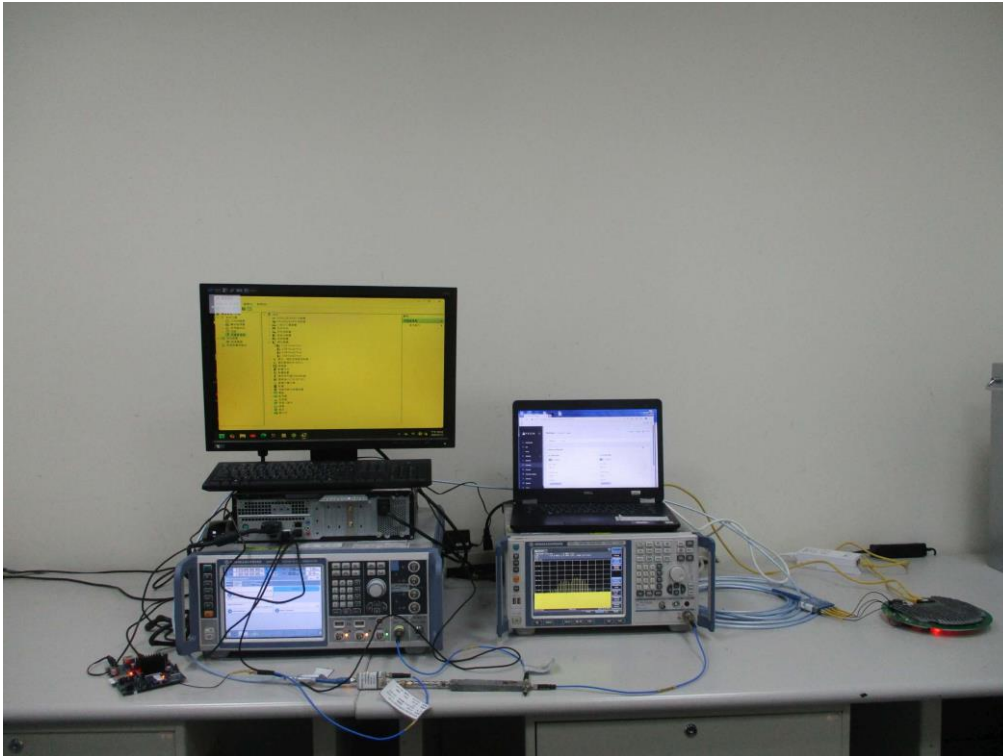
Channel Shutdown Result				
Minimum Antenna Gain of Master (dBi)			2.17	
Detection Threshold Level (dBm)			-54dBm (DFS Detection Threshold -64dBm+ 10dB)	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms)	Channel Move Time(s)
HE20	5320	table D.3	40	0.7675
HE20	5500	table D.3	32.5	0.8375
Limit			1 sec	10 sec
Result			Complied	
Note 1: Table D.3: Parameters of the reference DFS test signal.				

2.1.1 Channel Shutdown Plots



3 Photographs of the Test Configuration

DFS Test



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <https://www.icertifi.com.tw>.

Linkou

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Zhonghe

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==END==