

# **FCC TEST REPORT** (PART 90)

Applicant:	Cohda Wireless Pty Ltd.				
Address:	27 Greenhill Road Wayville SA 5034 Australia				
Manufacturer or Supplier	Cohda Wireless Pty Ltd.				
Address	27 Greenhill Road Wayville SA 50	34 Australia			
Product	Road-Side (Transceiver) Unit for in	nfrastructure.			
Brand Name	Cohda Wireless				
Model Name	MK6 RSU				
Series Model	MK6 RSU				
FCC ID	2AEGPMK6RSU				
Date of tests	Jan. 26, 2023 ~ Sep. 01, 2023				
The tests have bee	n carried out according to the requi	rements of the following standard:			
<ul><li>⋉ FCC Part 90, S</li><li>⋉ FCC Part 2</li></ul>	— , <b>,</b> —				
CONCLUSION: The submitted sample was found to COMPLY with the test requirement					
Prepared by Chao Wu  Approved by Peibo Sun  Engineer / Mobile Department  Manager / Mobile Department					
(	chao Wu	Sunpeibo			

Date. Sep. 01, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of its suance of this report to notify us of any material error or omission caused by on regligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Date: Sep. 01, 2023

Date: Sep. 01, 2023



# BUREAU VERITAS Test Report No.: PSU-QSU2306260109RF05

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2306260109RF05	Original release	Sep. 01, 2023



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 90						
No.	Test Description	DSRC Test result					
1	Transmitter frequency stability	§ 90.379 § 90.395(a)	Applicable	See Note1			
2	RF output power	§ 90.375(c) § 90.377(b)	Applicable	See Note1			
3	Conducted spurious emissions	§ 90.379 § 90.395(a)	Applicable	See Note1			
4	Occupied Bandwidth	§ 90.379	Applicable	See Note1			
5	Transmitter spectrum mask	§ 90.379 § 90.395(a)	Applicable	See Note1			
6	Radiated Spurious Emissions	§ 90.379	Applicable	Compliance			

**Note:** 1.Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).

#### \*Test Lab Information Reference

Lab:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

The FCC Site Registration No. is 434559; The Designation No. is CN1325.



## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	9kHz~30MHz	2.66dB	
	9KHz ~ 30MHz	2.68dB	
Radiated emissions	30MHz ~ 1GHz	3.26dB	
Nadiated emissions	1GHz ~ 18GHz	4.48dB	
	18GHz ~ 40GHz	4.12dB	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Fed.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EM C-01Chamber	Nov.24,22	Nov.23,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EM C-02Chamber	Nov.24,22	Nov.23,25
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Biconical Antenna	SCHWARZ	VUBA 9117	69250	Nov.14,22	Nov.13,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(C ABLE)	R&S	HF290-NMNM- 7.00M	N/A	N/A	N/A
TMC-AMI18843A(C ABLE)	R&S	HF290-NMNM- 4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	J12J103539-00 -1	SEP-03-20-069	Arp.28,23	Oct.27,23
CABLE	R&S	J12J103539-00 -1	SEP-03-20-070	Arp.28,23	Oct.27,23
Temperature Chamber	votsch	VT4002	585660781000 50	May.31,22	May.30,24

#### NOTE:

- 1. The calibration interval of the above test instruments is 6 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in 3m Fully-anechoic Chamber.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested
- 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



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# 1.3 TEST ENVIRONMENT

Environment Parameter	96~98 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(℃) Voltage(V)		
NTNV	25	48	
LTLV	-20	40.8	
LTHV	-20	55.2	
HTLV	75	40.8	
HTHV	75	55.2	

#### Remark:

NV: Normal Voltage

LV: Low Extreme Test Voltage
HV: High Extreme Test Voltage
NT: Normal Temperature

LT: Low Extreme Test Temperature
HT: High Extreme Test Temperature

The EUT was tested by adjustable DC power supply.



### **2 GENERAL INFORMATION**

## 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Road-Side (Transceiver) Unit for infrastructure.		
BRAND NAME*	Cohda Wireless		
MODEL NAME*	MK6 RSU		
SERIES MODEL*	MK6 RSU		
NOMINAL VOLTAGE*	48Vdc(POE A	dapter)	
EXTREME TEMPERATURE*	-20°C and 75	°C	
MODULATION TYPE*	DSRC BPSK,QPSK,16QAM,64QAM		
OPERATING FREQUENCY*	<b>DSRC</b> 5895 MHz – 5925 MHz		
ANTENNA GAIN*	DSRC ANT 1:6.10 dBi ANT 2:6.10 dBi		
ANTENNA TYPE*	DSRC Dipole Antenna		
FCC ID*	2AEGPMK6RSU		
HW VERSION*	Rev 1.0		
SW VERSION*	19.Release.134186		
I/O PORTS*	Refer to user's manual		
CABLE SUPPLIED*	N/A		

#### NOTE:

- 1. \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. The EUT incorporates a SISO function. Physically, the EUT provides two transmitters and two receivers. Both ICs share the 2 X DSRC antenna ports through the use of RF switches and combiners but MK6 does not support MIMO on DSRC.

MODULATION MODE	TX/RX FUNCTION
BPSK (1/2,3/4)	2TX /2RX
QPSK (1/2,3/4)	2TX /2RX
16QAM (1/2,3/4)	2TX /2RX
64QAM (2/3,3/4)	2TX /2RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



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#### **List of Accessory:**

ACCESSORIES	MANUFACTURER	MODEL
2x Antenna for LTE/2G/3G/CDMA	Taoglas	TG.80.4H31
1x Antenna for WLAN/BT	HUBER+SUHNER	1399.17.0224
1x Antenna for WLAN/BT	HUBER+SUHNER	1399.17.0224
2x Antenna for DSRC	Taoglas	TD.80.6H31
1x Antenna for GNSS	Taoglas	TLS.40.1F11
1xM12 field attachable connector	Amphenol	MSXS-08BMMD- SL8001



## 2.2 DESCRIPTION OF TEST MODES

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in the report.

#### **DSRC**:

Channel	Modulation	Coding rate
	BPSK	1/2
	BPSK	3/4
	QPSK	1/2
180	QPSK	3/4
160	16-QAM	1/2
	16-QAM	3/4
	64-QAM	2/3
	64-QAM	3/4
	BPSK	1/2
	BPSK	3/4
	QPSK	1/2
182	QPSK	3/4
102	16-QAM	1/2
	16-QAM	3/4
	64-QAM	2/3
	64-QAM	3/4
	BPSK	1/2
	BPSK	3/4
	QPSK	1/2
184	QPSK	3/4
104	16-QAM	1/2
	16-QAM	3/4
	64-QAM	2/3
	64-QAM	3/4

#### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
Transmitter unwanted emissions	25deg. C, 60%RH	DC 48V By POE Adapter	Chao Wu
Receiver spurious emissions	25deg. C, 60%RH	DC 48V By POE Adapter	Chao Wu



## 2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC 47 CFR Part 2 FCC 47 CFR Part 90

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

All tests have been performed and recorded as per the above standard.

#### 2.4 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).

## 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units.

#### For test

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	Lenovo	ThinkPad E14	HRSW00024	N/A
2	POE Adapter	N/A	N/A	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A



#### 3. TEST TYPES AND RESULTS

#### 3.1 TRANSMITTER FREQUENCY STABILITY

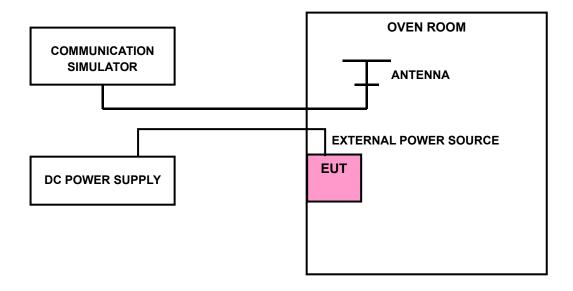
#### 3.1.1 LIMITS OF TRANSMITTER FREQUENCY STABILITY

The transmitted center frequency tolerance shall be  $\pm 10$  ppm maximum for RSUs and  $\pm 10$  ppm maximum for OBUs. The transmit center frequency and the symbol clock frequency shall be derived from the same reference oscillator.

#### 3.1.2 TEST PROCEDURES

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5$ °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

#### 3.1.3 TEST SETUP





## 3.1.4 TEST RESULTS

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).

# 3.2 RF OUTPUT POWER

#### **3.2.1 LIMITS**

Per FCC Part 90.635(a)(b)

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

#### 3.2.2 TEST PROCEDURES

#### **EIRP / ERP MEASUREMENT:**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = PMeas + GT - LC

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm);

P<sub>Meas</sub> = measured transmitter output power or PSD, in dBm or dBW;

G<sub>T</sub> = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

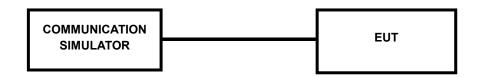
Lc = signal attenuation in the connecting cable between the transmitter and antenna, in dB

#### CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



# CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



#### 3.2.4 TEST RESULTS

#### **RF OUTPUT POWER**

#### DSRC:

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).



#### 3.3 CONDUCTED SPURIOUS EMISSIONS

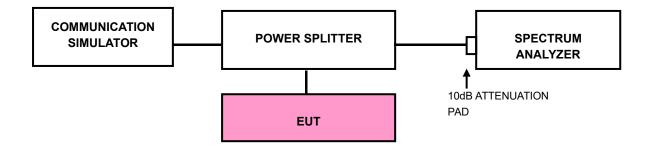
#### 3.3.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

#### 3.3.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.3.3 TEST SETUP





#### 3.1.4 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).



#### 3.4 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.4.1 LIMITS OF OF OCCUPIED BANDWIDTH MEASUREMENT

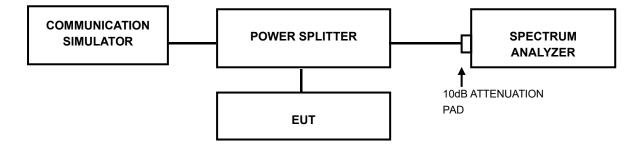
The transmitted spectral mask for class A, B, C, and D devices are shown in Figs. 12-15. In addition, all DSRC site installations shall limit the EIRP in the transmitted spectrum to −25 dBm or less in the 100 kHz at the channel edges and the band edges.

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

#### 3.4.2 TEST PROCEDURES

Refer to chapter § 90.379 § 90.395(a)

#### 3.4.3 TEST SETUP





## 3.4.4 TEST RESULTS

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).

# 3.5 Transmitter Spectrum Mask Within The 5 Ghz Its Frequency Band For 10 Mhz Channels

#### 3.5.1 **LIMITS**

The transmitted spectral mask for class A, B, C, and D devices are shown in Figs. 12-15. In addition, all DSRC site installations shall limit the EIRP in the transmitted spectrum to −25 dBm or less in the 100 kHz at the channel edges and the band edges.

#### TABLE 10 DSRC Spectrum Mask<sup>A</sup>

Note 1-Reduction in Power Spectral Density, dBr.

Class	± 4.5-MHz Offset	± 5.0-MHz Offset	± 5.5-MHz Offset	± 10-MHz Offset	± 15-MHz Offset
Class A	0	-10	-20	-28	-40
Class B	0	-16	-20	-28	-40
Class C	0	-26	-32	-40	-50
Class D	0	-35	-45	-55	-65

<sup>&</sup>lt;sup>A</sup> From IEEE 802.11a. Copyright 1999 IEEE. All rights reserved.

#### 3.5.2 TEST PROCEDURE

Refer to chapter § 90.379 § 90.395(a)

#### 3.5.3 TEST SETUP

#### Step 1:

• Connect the DUT transmitter output to the test setup and activate normal operation at maximum output power.

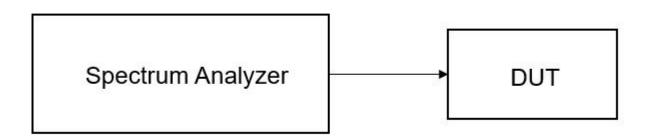
#### Step 2:

• Measure the average power in the transmission bandwidth (fc  $\pm$  4,5 MHz) using a resolution bandwidth of 100 kHz. This shall be recorded as the "Power Spectral Density at the carrier centre frequency fc" according to Table 6.

#### Step 3:

- Measure the power level in the range of fc  $\pm$  15 MHz with a resolution bandwidth of 100 kHz and record these values.
- The video signal of the spectrum analyser can be "gated" such that the spectrum measured is measured 4,0  $\,\mu$ s before the beginning of the transmission to 4,0  $\,\mu$ s after the end of the transmission.





#### 3.5.4 TEST RESULTS

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).

#### 3.6 Radiated emission measuremnet

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The spurious emissions of the receiver shall not exceed the limits given in § 15.209.

- (1)The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm
- (2) For operations in the 763–775 MHz and 793–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.

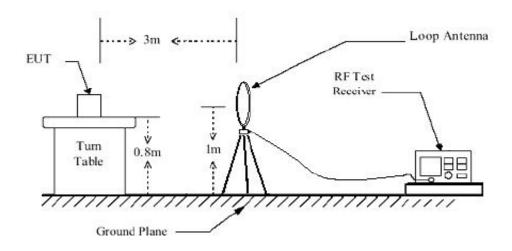
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.



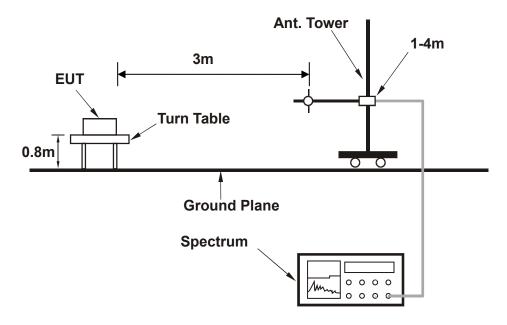
# BUREAU VERITAS Test Report No.: PSU-QSU2306260109RF05

## 3.6.3 TEST SETUP

#### <Below 30MHz>

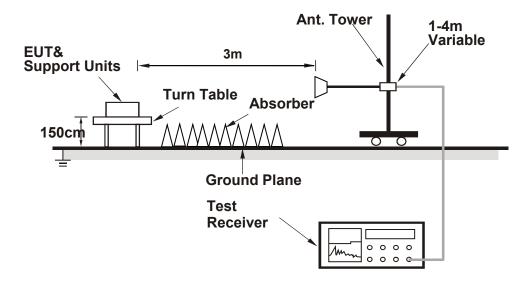


### < Frequency Range 30MHz~1GHz >





## < Frequency Range above 1GHz >



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 3.6.4 DEVIATION FROM TEST STANDARD

No deviation



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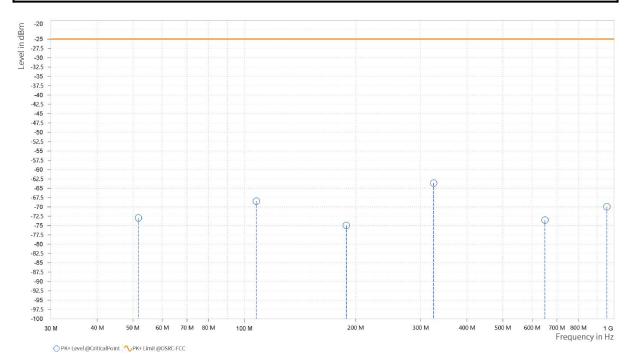
#### 3.6.5 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### TX BELOW 1GHz WORST-CASE DATA as below:

#### DSRC \_1/2 BPSK\_(SISO- ANT1)

SPURIOUS EMISSION FREQUENCY RANGE 30MHz ~ 1GHz		OPERATING CHANNEL	180
	SPURIOUS EM	ISSION LEVEL	
	ı	1	



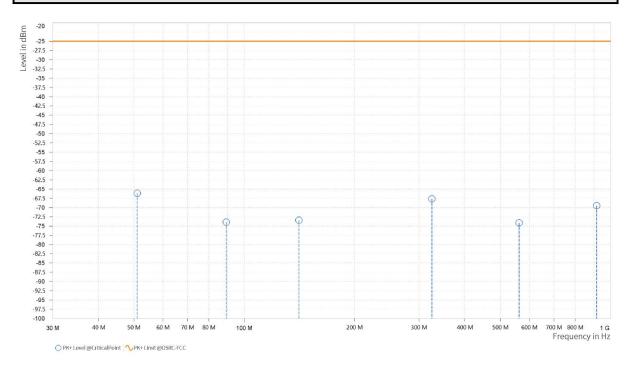
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	51.700	-72.97	-25.00	47.97	1.76	Н	4.5	1
1	107.800	-68.43	-25.00	43.43	-3.46	Н	354.8	2
1	188.700	-74.98	-25.00	49.98	-5.08	Н	359	1
1	325.000	-63.61	-25.00	38.61	1.40	Н	354.8	2
2	650.063	-73.54	-25.00	48.54	5.54	Н	1.3	2
2	955.908	-69.97	-25.00	44.97	10.63	Н	358.7	1



# BUREAU Test Report No.: PSU-QSU2306260109RF05

NOTE: RMS Margin=RMS Limit-RMS Level.

SPURIOUS EMISSION FREQUENCY RANGE 30MHz ~ 1GHz		OPERATING CHANNEL	180				
	SPURIOUS EM	ISSION LEVEL					
	V						



Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	51.050	-66.12	-25.00	41.12	1.65	V	1	1
1	89.250	-73.94	-25.00	48.94	-3.39	V	1	1
1	140.900	-73.42	-25.00	48.42	-5.88	V	359	2
1	325.000	-67.64	-25.00	42.64	0.93	V	22.3	2
2	562.475	-74.14	-25.00	49.14	3.47	V	97.4	2
2	915.896	-69.49	-25.00	44.49	10.80	V	0.9	2

NOTE: RMS Margin=RMS Limit-RMS Level.

BUREAU Test Report No.: PSU-QSU2306260109RF05

#### **ABOVE 1GHz DATA**

**Note:** For higher frequency, the emission is too low to be detected.

TX THE WORSE CASE TEST DATA DSRC \_1/2 BPSK\_(SISO- ANT1)

SPURIOUS EMISSION FREQUENCY RANGE	1GHz ~ 18GHz	OPERATING CHANNEL	180,182,184
		·	

SPURIOUS EMISSION LEVEL					
Channel	180				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.000	-49.83	-25.00	24.83	23.24	Н	0.9	2
6	17,700.000	-39.24	-25.00	14.24	37.20	Н	0.9	2
10								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6	The second secon	Level	Limit	Margin	The second second	Polarization V	2007/00/2007	Height

SPURIOUS EMISSION LEVEL					
Channel	182				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-48.61	-25.00	23.61	23.30	Н	1	2
6	17,731.000	-37.76	-25.00	12.76	36.95	Н	359.1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-48.71	-25.00	23.71	23.73	V	1	2
6	17,728.500	-39.44	-25.00	14.44	35.83	M	1	2



# BUREAU VERITAS Test Report No.: PSU-QSU2306260109RF05

	SPURIOUS EMISSION LEVEL
Channel	184

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,841.000	-44.26	-25.00	19.26	23.35	Н	359.1	2
6	17,758.500	-39.13	-25.00	14.13	36.74	Н	347.2	2

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,840.000	-47.00	-25.00	22.00	23.79	V	346.6	2
6	17,759.500	-39.80	-25.00	14.80	35.59	V	1	2

NOTE: RMS Margin=RMS Limit-RMS Level.



BUREAU Test Report No.: PSU-QSU2306260109RF05

DSRC \_3/4 BPSK\_(SISO-ANT1)

	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,799.500	-49.77	-25.00	24.77	23.24	Н	351.8	1
6	17,699.500	-38.45	-25.00	13.45	37.20	Н	351.8	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin	71	Polarization V	24 14 1 10 10 10 10 10 10 10 10 10 10 10 10 1	Height

	SPURIOUS EMISSION LEVEL
Channel	182

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,819.500	-49.68	-25.00	24.68	23.29	Н	348.7	2
6	17,731.000	-38.26	-25.00	13.26	36.95	Н	359.1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height



# REAU Test Report No.: PSU-QSU2306260109RF05

	SPURIOUS EMISSION LEVEL
Channel	184

					-	-		
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,841.000	-44.27	-25.00	19.27	23.35	Н	347.2	2
6	17,760.500	-38.39	-25.00	13.39	36.73	Н	1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,839.000	-46.27	-25.00	21.27	23.79	V	345.8	2

NOTE: RMS Margin=RMS Limit-RMS Level.



BUREAU Test Report No.: PSU-QSU2306260109RF05

DSRC \_1/2 OPSK\_(SISO-ANT1)

	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.000	-48.17	-25.00	23.17	23.24	Η	359	2
6	17,701.000	-37.19	-25.00	12.19	37.19	Н	1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6	and the same of th	Level	Limit	Margin	The state of the s	Polarization V		Height

	SPURIOUS EMISSION LEVEL
Channel	182

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-49.65	-25.00	24.65	23.30	Н	359.1	2
6	17,730.500	-38.54	-25.00	13.54	36.96	Н	347.2	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,819.500	-49.68	-25.00	24.68	23.73	V	345.8	1
6	17,730.000	-39.93	-25.00	14.93	35.82	V	359.1	2



# BUREAU VERITAS Test Report No.: PSU-QSU2306260109RF05

	SPURIOUS EMISSION LEVEL
Channel	184

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,841.500	-44.46	-25.00	19.46	23.36	Н	347.2	1
6	17,760.500	-38.73	-25.00	13.73	36.73	Н	347.2	2
		DIV	DIV	1011/2				
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height

NOTE: RMS Margin=RMS Limit-RMS Level.



BUREAU Test Report No.: PSU-QSU2306260109RF05

DSRC \_3/4 QPSK\_(SISO-ANT1)

11(4Hz ~ 18(4Hz 1	OPERATING CHANNEL	180,182,184
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	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,799.500	-49.69	-25.00	24.69	23.24	Н	359	2
6	17,702.500	-38.73	-25.00	13.73	37.18	Н	1	2
					- Table 1	or and	and the same of th	
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6	The second secon	Level	Limit	Margin	100000000000000000000000000000000000000	Polarization V	DATE OF THE PARTY	Height

	SPURIOUS EMISSION LEVEL
Channel	182

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-49.23	-25.00	24.23	23.30	Н	345.9	1
6	17,730.000	-39.12	-25.00	14.12	36.96	Н	359.1	2
_		_						
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6	and the second second	Level	Limit	Margin	Control of the Control	Polarization V	1201	Height



SPURIOUS EMISSION LEVEL					
Channel	184				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,840.000	-44.51	-25.00	19.51	23.35	Н	347.3	1
6	17,760.500	-38.53	-25.00	13.53	36.73	Н	359.1	2
Ra	Frequency	PK+	PK+	PK+ Margin	Correction	Polarization	Azimuth	Antenna Height

Rg	Frequency [MHz]	PK+ Level [dBm]		PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,840.000	-47.27	-25.00	22.27	23.79	V	347.9	1
6	17,759.500	-41.79	-25.00	16.79	35.59	V	359.1	2



DSRC \_1/2 16QAM\_(SISO-ANT1)

	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.500	-47.58	-25.00	22.58	23.24	Н	359.1	1
6	17,700.500	-39.30	-25.00	14.30	37.19	Н	359.1	2
			The second second					
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height

	SPURIOUS EMISSION LEVEL
Channel	182

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-49.32	-25.00	24.32	23.30	Н	347.2	1
6	17,729.500	-39.60	-25.00	14.60	36.97	Н	1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-48.33	-25.00	23.33	23.73	V	359.1	1
6	17,730.500	-39.67	-25.00	14.67	35.82	V	359.1	2



	SPURIOUS EMISSION LEVEL
Channel	184

	200			76				
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,839.500	-44.08	-25.00	19.08	23.35	Н	346.6	2
6	17,760.000	-39.22	-25.00	14.22	36.73	Н	359	2
		PK+	PK+	PK+				
Rg	Frequency [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6	and the same and	Level	Limit	Margin	Water Control of the	Polarization V	100000000000000000000000000000000000000	Height



DSRC \_3/4 16QAM\_(SISO-ANT1)

SPURIOUS EMISSION FREQUENCY RANGE	1GHz ~ 18GHz	OPERATING CHANNEL	180,182,184
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	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.000	-49.55	-25.00	24.55	23.24	Н	347.9	2
6	17,699.500	-37.77	-25.00	12.77	37.20	Н	1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height

SPURIOUS EMISSION LEVEL					
Channel	182				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-49.02	-25.00	24.02	23.30	Н	1	1
6	17,730.000	-38.84	-25.00	13.84	36.96	Н	1	2
	Frequency	PK+	PK+	PK+	Correction		Azimuth	Antenna
Rg	[MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	[dB]	Polarization	[deg]	Height [m]
Rg 6				0	0.000	Polarization V	100	_



SPURIOUS EMISSION LEVEL					
Channel	184				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,838.000	-43.91	-25.00	18.91	23.35	Н	346.6	2
6	17,758.500	-39.22	-25.00	14.22	36.74	Н	1	2
Rg	Frequency [MHz]	PK+ Level	PK+ Limit	PK+ Margin	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height
		[dBm]	[dBm]	[dB]	[GD]		[dog]	[m]
6	11,840.500	[dBm] -48.24	[dBm] -25.00	[dB] 23.24	23.80	V	359.1	[m] 1



DSRC \_2/3 64QAM\_(SISO-ANT1)

SPURIOUS EMISSION LEVEL					
Channel	180				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.000	-49.18	-25.00	24.18	23.24	Н	348.6	2
6	17,700.000	-38.27	-25.00	13.27	37.20	Н	359	2
7								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height

SPURIOUS EMISSION LEVEL					
Channel	182				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-49.48	-25.00	24.48	23.30	Н	359	2
6	17,730.500	-38.85	-25.00	13.85	36.96	Н	1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	0	[abiii]	[abiii]	[GD]	6	2	8	Linital
6	11,820.000	-49.65	-25.00	24.65	23.73	V	359	1



SPURIOUS EMISSION LEVEL					
Channel	184				

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,838.500	-44.37	-25.00	19.37	23.35	Н	347.3	2
6	17,761.000	-39.92	-25.00	14.92	36.72	Н	359	2

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,840.000	-47.59	-25.00	22.59	23.79	V	347.2	2
6	17,760.500	-41.25	-25.00	16.25	35.59	V	1	2



DSRC \_3/4 64QAM\_(SISO-ANT1)

SPURIOUS EMISSION FREQUENCY RANGE 1GHz ~ 18GHz	OPERATING CHANNEL	180,182,184
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	SPURIOUS EMISSION LEVEL
Channel	180

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,800.000	-47.94	-25.00	22.94	23.24	Н	359.1	1
6	17,698.000	-38.27	-25.00	13.27	37.21	Н	359.1	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin		Polarization V		Height

	SPURIOUS EMISSION LEVEL
Channel	182

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,820.000	-48.82	-25.00	23.82	23.30	Н	1	2
6	17,730.500	-39.24	-25.00	14.24	36.96	Н	346.5	2
		DIV	DI	DI				
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin	0.000 (0.000)	Polarization V	192	Height



	SPURIOUS EMISSION LEVEL
Channel	184

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	11,838.500	-43.44	-25.00	18.44	23.35	Н	347.9	1
6	17,759.500	-38.84	-25.00	13.84	36.73	Н	347.9	2
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
Rg 6		Level	Limit	Margin	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0	Polarization V	192	Height

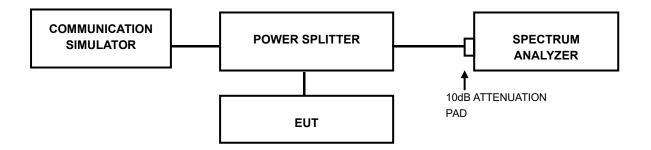


#### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.



#### 3.7.4 TEST RESULTS

Please refer to the report (Report No.: CQC-IVTS-2023-00333, Model Name:MK6 RSU, FCC ID:2AEGPMK6RSU).



### 4. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



# 5. MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

--- END ---