



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Xiamen Milesight IoT Co., Ltd.

Address: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

FCC ID: 2AYHY-PRESENCE

Product Name: Presence Sensor

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230636032-00B

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Reviewed By: Julie Tan

Julie Tan

Title: RF Engineer

Approved By: Sun Zhong

Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,

Guangdong, China

Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230636032-00B	Original Report	2023/7/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Presence Sensor
EUT Model:	VS341-915M
Multiple Model:	NF341-915M, VS341-9M, NF341-9M, VS340-915M, NF340-915M, VS340-9M, NF340-9M, WS203-915M, WS203-9M, NE203-915M, NE203-9M
Operation Frequency:	903-926.9 MHz
Maximum Peak Output Power (Conducted):	11.05 dBm
Modulation Type:	Chirp Spread Spectrum (CSS)
Rated Input Voltage:	DC 3.6V From Battery
Serial Number:	27B0-1 (For RF Conducted Test) 27B0-3 (VS341-915M: For Radiated spurious emission Test) 27B0-4 (VS340-915M: For Radiated spurious emission Test) 27B0-5 (WS203-915M: For Radiated spurious emission Test)
EUT Received Date:	2023/6/27
EUT Received Status:	Good
Note: The Multiple model is electrically identical with test model, please refer to the declaration letter for more detail, which was provided by manufacturer.	

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903	9	923.3
2	904.6	10	923.9
3	906.2	11	924.5
4	907.8	12	925.1
5	909.4	13	925.7
6	911	14	926.3
7	912.6	15	926.9
8	914.2	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		903	
Middle		914.2	
Highest		926.9	

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
PCB	50	902-928MHz	-3.31 dBi

The Method of §15.203 Compliance:

- Antenna must be permanently attached to the unit.
- Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

NO.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	certificationTools.exe		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:			
Test Modes	Power Level Setting		
	Lowest	Middle	Highest
Lora-DTS	11	11	11

1.2.2 Support Equipment List and Details

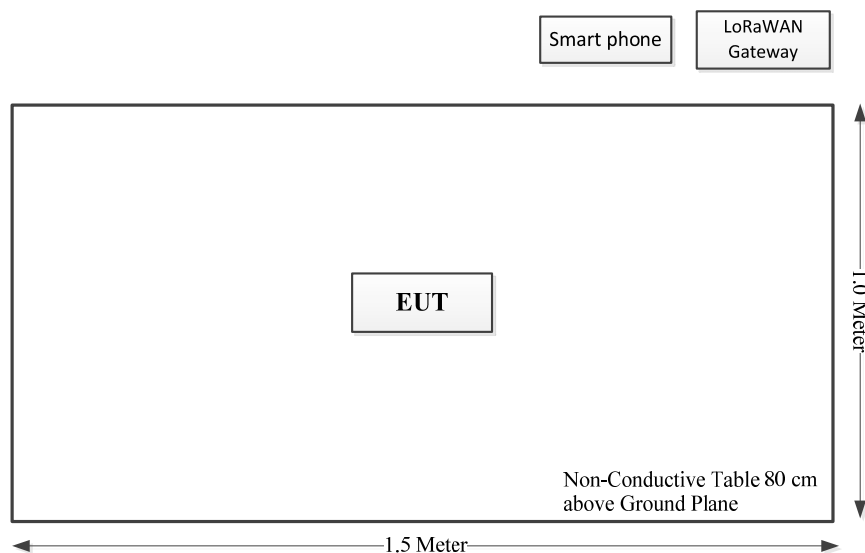
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup

Radiated spurious emissions



1.3 Measurement Uncertainty

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.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Not applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
FCC§15.247 (i) & §1.1310& §2.1091	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 10 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

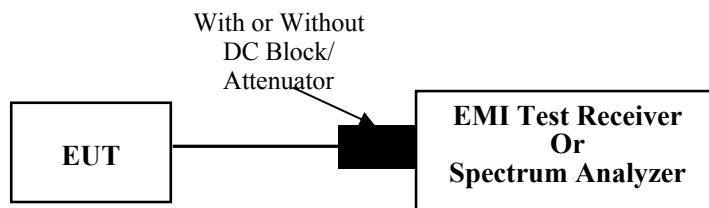
3.3 6 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

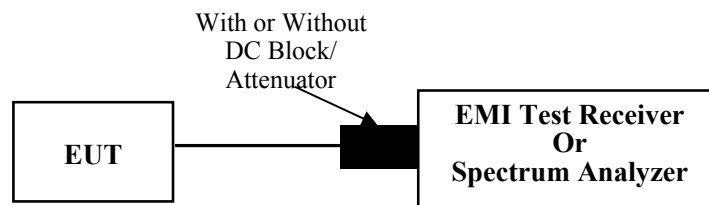
3.4 Maximum Conducted Output Power:

3.4.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq $[3 \times \text{RBW}]$.
- c) Set span \geq $[3 \times \text{RBW}]$.
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

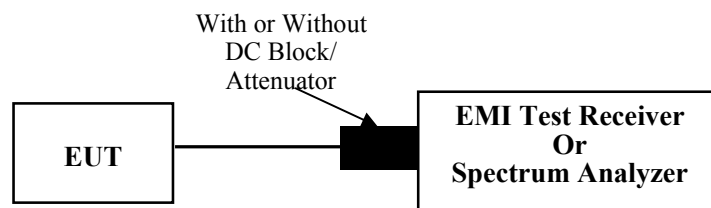
3.5 Maximum power spectral density:

3.5.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

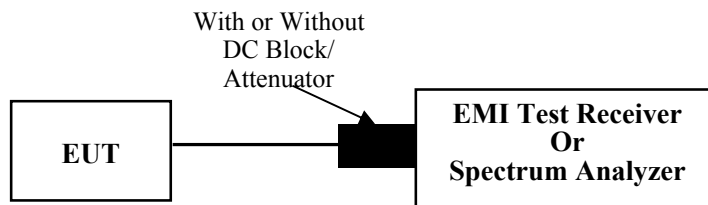
3.6 100 kHz Bandwidth of Frequency Band Edge:

3.6.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.6.2 EUT Setup



3.6.3 Test Procedure

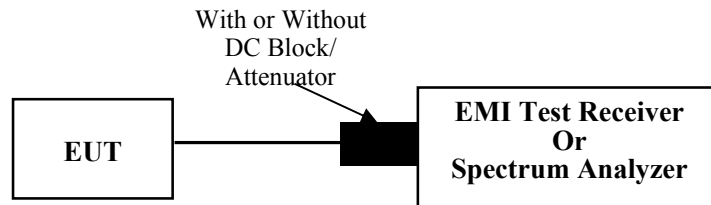
According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.7 Duty Cycle:

3.7.1 EUT Setup



3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable, the device was powered by battery.

4.2 Radiation Spurious Emissions

Serial Number:	27B0-3, 27B0-4, 27B0-5	Test Date:	Below 1G: 2023/7/10 Above 1G:2023/07/08~ 2023/07/25
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9~26.9	Relative Humidity: (%)	59~64	ATM Pressure: (kPa)	100.2~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated emissions below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Radiated emissions above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/08/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
Audix	Test Software	E3	201021 (V9)	N/A	N/A

* **Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

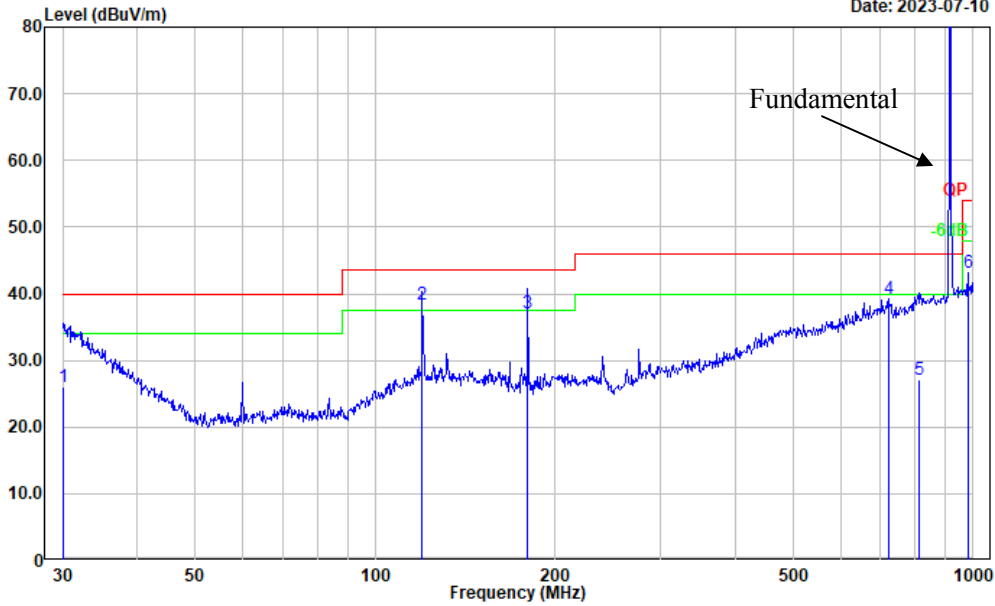
Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 figure 8, the worst orientation was photographed and it's data was recorded.

1) 30MHz-1GHz(Low channel was tested)
 Model: VS341-915M

Test Mode: Transmitting
 Polarization: horizontal
 Note: (VS341-915M)

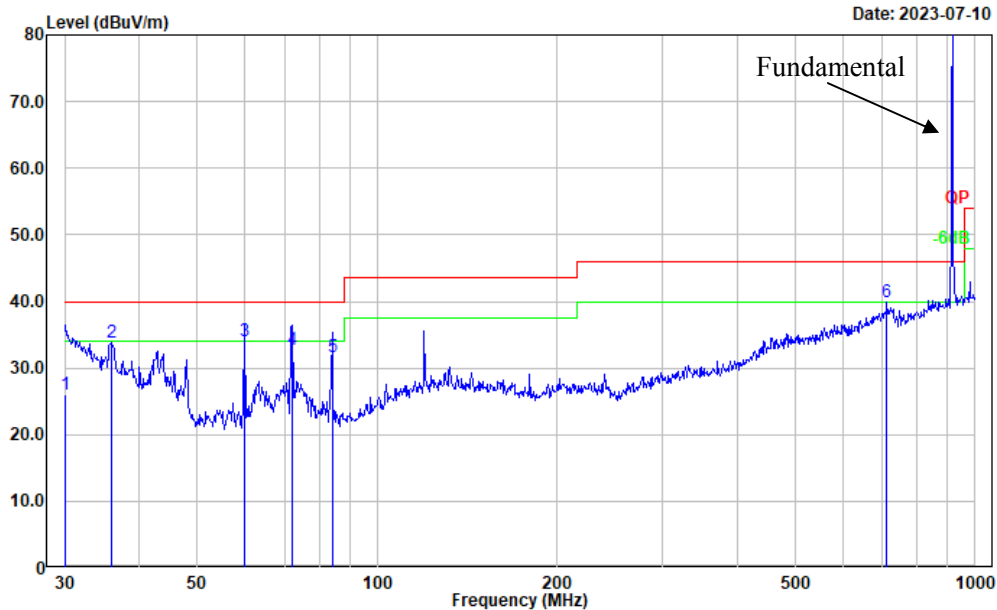
Date: 2023-07-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	-1.76	27.88	26.12	40.00	13.88	QP
2	119.856	18.29	19.98	38.27	43.50	5.23	QP
3	180.017	19.27	17.85	37.12	43.50	6.38	QP
4	721.726	11.26	28.04	39.30	46.00	6.70	Peak
5	813.112	-1.92	29.12	27.20	46.00	18.80	QP
6	979.180	12.64	30.52	43.16	54.00	10.84	Peak

Test Mode: Transmitting
 Polarization: vertical
 Note: (VS341-915M)

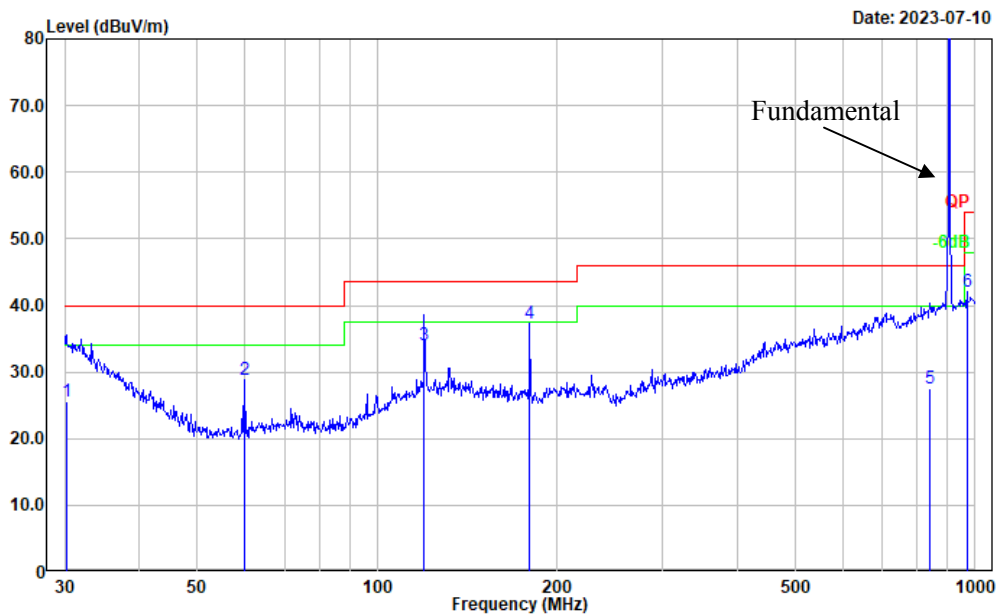
Date: 2023-07-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	-1.85	27.80	25.95	40.00	14.05	QP
2	36.001	10.59	23.23	33.82	40.00	6.18	Peak
3	59.978	19.99	14.07	34.06	40.00	5.94	QP
4	72.084	17.93	14.78	32.71	40.00	7.29	QP
5	84.110	17.34	14.25	31.59	40.00	8.41	QP
6	711.674	11.85	27.95	39.80	46.00	6.20	Peak

Model: VS340-915M

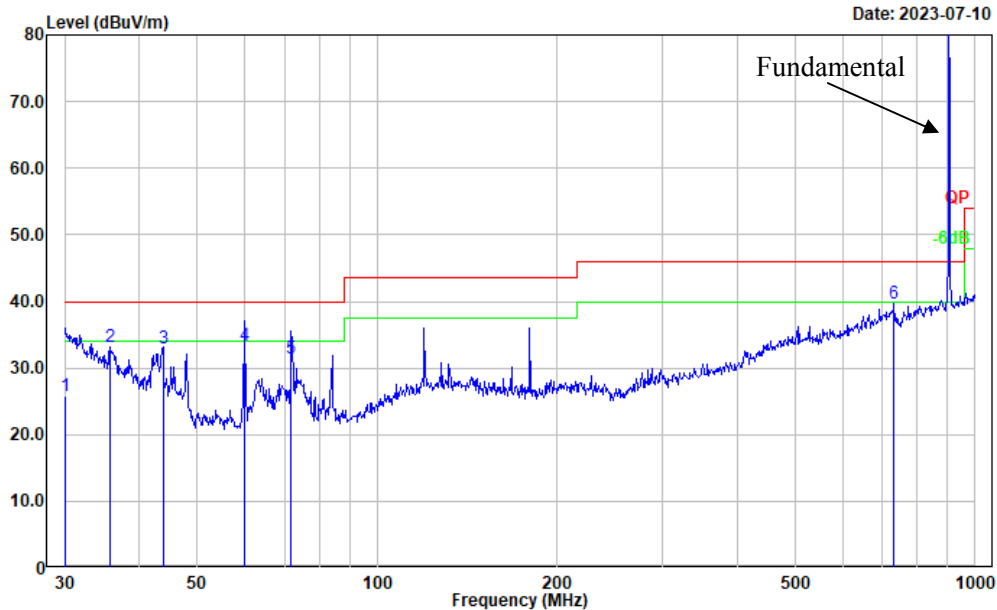
Test Mode: Transmitting
 Polarization: horizontal
 Note: (VS340-915M)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	-2.03	27.72	25.69	40.00	14.31	QP
2	59.859	14.79	14.07	28.86	40.00	11.14	Peak
3	119.856	14.09	19.98	34.07	43.50	9.43	QP
4	180.017	19.41	17.85	37.26	43.50	6.24	Peak
5	839.182	-1.84	29.33	27.49	46.00	18.51	QP
6	968.934	11.58	30.38	41.96	54.00	12.04	Peak

Test Mode: Transmitting
 Polarization: vertical
 Note: (VS340-915M)

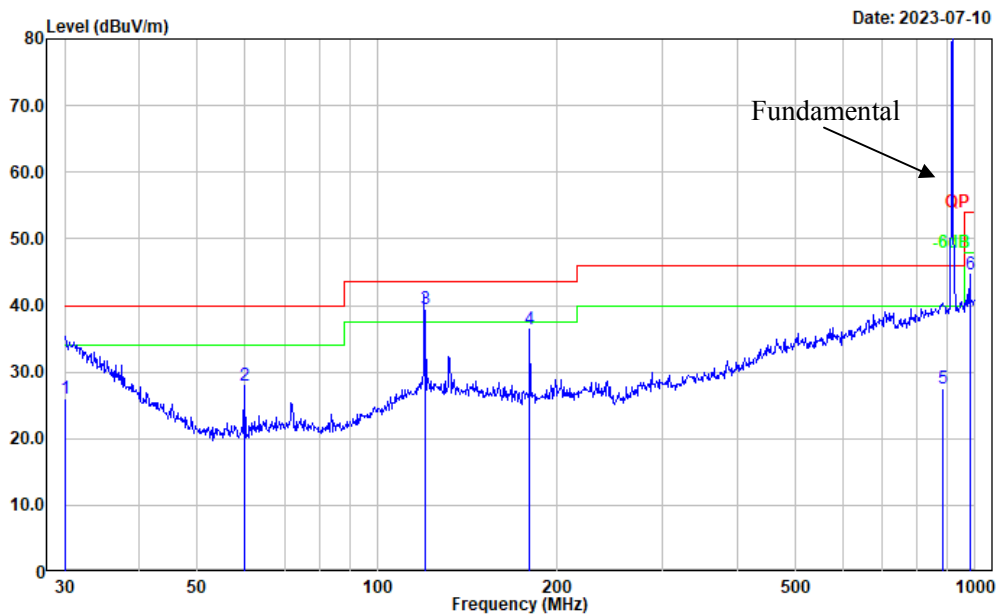
Date: 2023-07-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	-1.90	27.80	25.90	40.00	14.10	QP
2	35.749	9.73	23.43	33.16	40.00	6.84	Peak
3	43.812	15.12	17.94	33.06	40.00	6.94	Peak
4	59.859	19.26	14.07	33.33	40.00	6.67	QP
5	71.832	16.63	14.81	31.44	40.00	8.56	QP
6	731.920	11.57	28.18	39.75	46.00	6.25	Peak

Model: WS203-915M

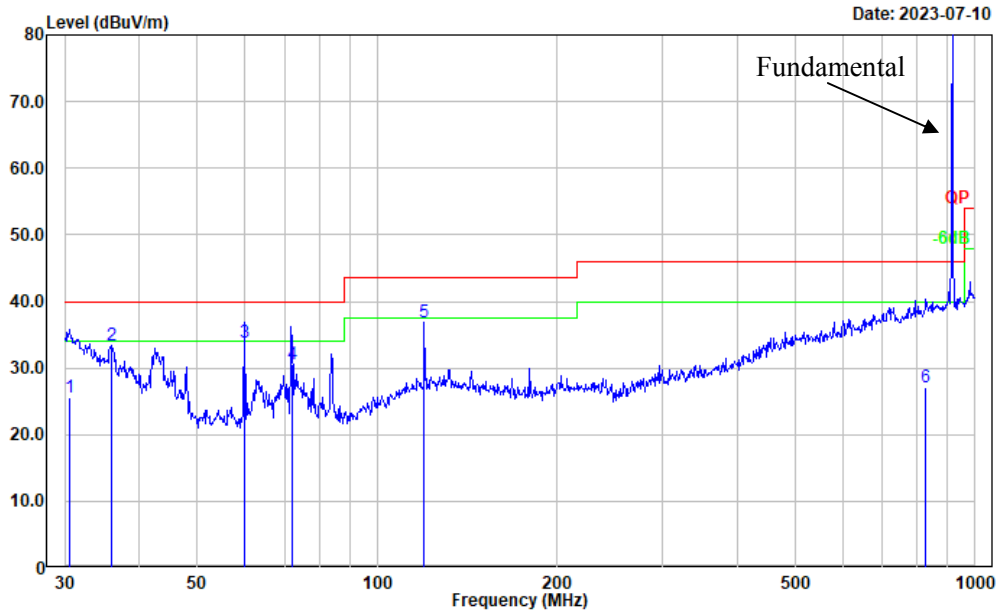
Test Mode: Transmitting
 Polarization: horizontal
 Note: (WS203-915M)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.000	-1.93	27.88	25.95	40.00	14.05	QP
2	59.859	13.80	14.07	27.87	40.00	12.13	Peak
3	120.009	19.45	19.99	39.44	43.50	4.06	QP
4	180.017	18.66	17.85	36.51	43.50	6.99	Peak
5	884.503	-2.01	29.64	27.63	46.00	18.37	QP
6	979.180	14.11	30.52	44.63	54.00	9.37	Peak

Test Mode: Transmitting
 Polarization: vertical
 Note: (WS203-915M)

Date: 2023-07-10



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	-1.84	27.38	25.54	40.00	14.46	QP
2	36.001	10.23	23.23	33.46	40.00	6.54	Peak
3	60.007	19.67	14.07	33.74	40.00	6.26	QP
4	72.047	15.82	14.79	30.61	40.00	9.39	QP
5	119.856	16.84	19.98	36.82	43.50	6.68	Peak
6	827.493	-2.10	29.30	27.20	46.00	18.80	QP

Model: VS341-915M

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:903MHz							
903.00	81.52	QP	H	29.47	110.99	N/A	N/A
903.00	72.98	QP	V	29.47	102.45	N/A	N/A
902.00	30.96	QP	H	29.46	60.42	90.99	30.57
Middle Channel: 914.2 MHz							
914.20	81.67	QP	H	29.62	111.29	N/A	N/A
914.20	73.60	QP	V	29.62	103.22	N/A	N/A
High Channel: 926.9 MHz							
926.90	79.44	QP	H	29.69	109.13	N/A	N/A
926.90	70.84	QP	V	29.69	100.53	N/A	N/A
928.00	51.44	QP	H	29.70	81.14	89.13	7.99

Model: VS340-915M

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:903MHz							
903.00	82.34	QP	H	29.47	111.81	N/A	N/A
903.00	72.48	QP	V	29.47	101.95	N/A	N/A
902.00	33.91	QP	H	29.46	63.37	91.81	28.44
Middle Channel: 914.2 MHz							
914.20	81.16	QP	H	29.62	110.78	N/A	N/A
914.20	71.66	QP	V	29.62	101.28	N/A	N/A
High Channel: 926.9 MHz							
926.90	78.13	QP	H	29.69	107.82	N/A	N/A
926.90	67.72	QP	V	29.69	97.41	N/A	N/A
928.00	45.95	QP	H	29.70	75.65	87.82	12.17

Model: WS203-915M

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:903MHz							
903.00	75.25	QP	H	29.47	104.72	N/A	N/A
903.00	74.06	QP	V	29.47	103.53	N/A	N/A
902.00	36.07	QP	H	29.46	65.53	84.72	19.19
Middle Channel: 914.2 MHz							
914.20	75.59	QP	H	29.62	105.21	N/A	N/A
914.20	74.86	QP	V	29.62	104.48	N/A	N/A
High Channel: 926.9 MHz							
926.90	75.31	QP	H	29.69	105.00	N/A	N/A
926.90	73.47	QP	V	29.69	103.16	N/A	N/A
928.00	49.71	QP	H	29.70	79.41	85.00	5.59

2) Bandedge and 1-10GHz:

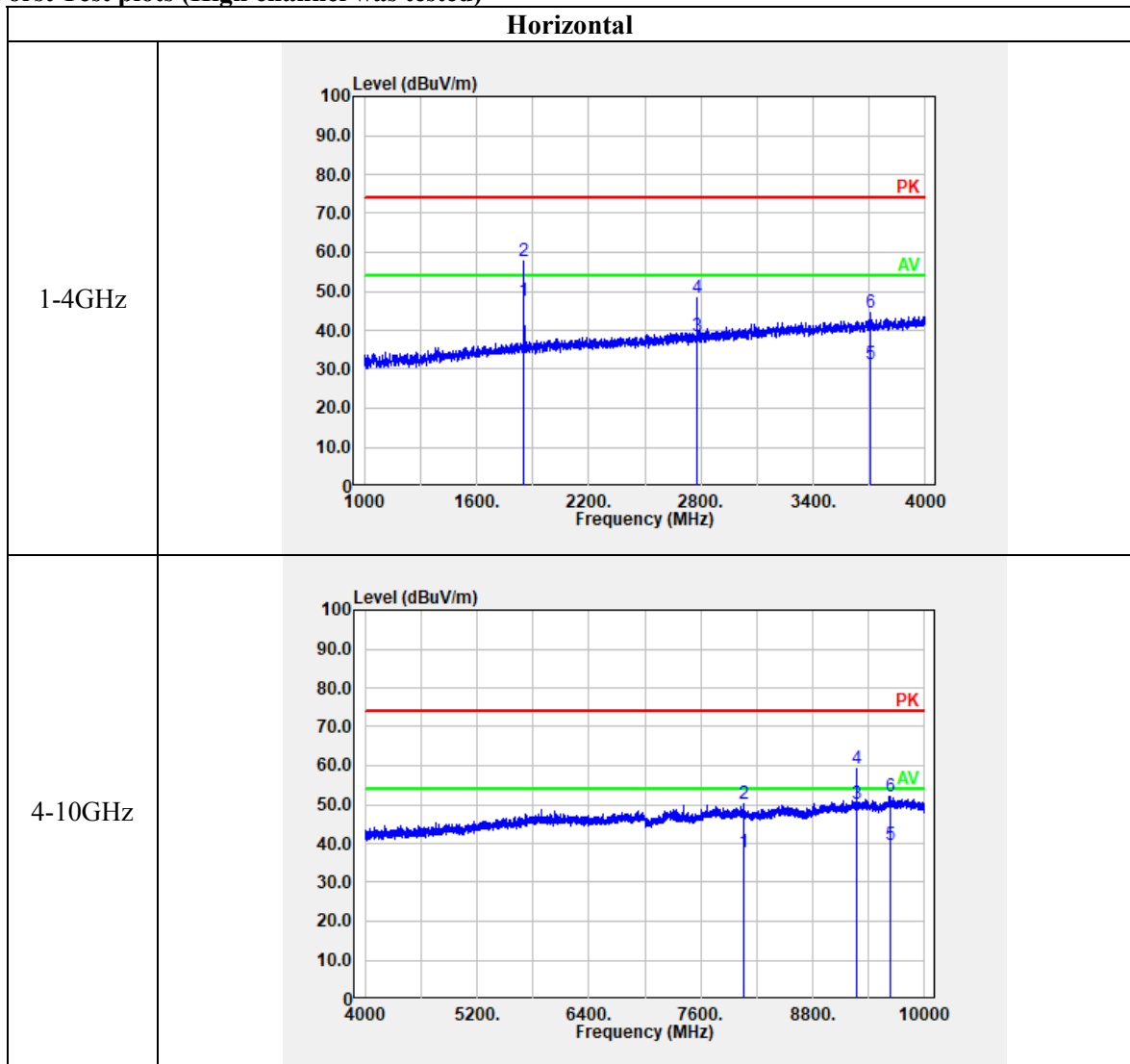
Model: VS341-915M

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel:903MHz							
903.00	81.52	QP	H	29.47	110.99	N/A	N/A
903.00	72.98	QP	V	29.47	102.45	N/A	N/A
902.00	30.96	QP	H	29.46	60.42	90.99	30.57
1806.000	54.86	PK	H	1.32	56.18	74.00	17.82
1806.000	44.67	AV	H	1.32	45.99	54.00	8.01
1806.000	54.83	PK	V	1.32	56.15	74.00	17.85
1806.000	44.32	AV	V	1.32	45.64	54.00	8.36
2709.000	46.30	PK	H	4.76	51.06	74.00	22.94
2709.000	36.59	AV	H	4.76	41.35	54.00	12.65
2709.000	42.28	PK	V	4.76	47.04	74.00	26.96
2709.000	32.24	AV	V	4.76	37.00	54.00	17.00
3612.000	36.52	PK	H	8.00	44.52	74.00	29.48
3612.000	23.54	AV	H	8.00	31.54	54.00	22.46
3612.000	36.45	PK	V	8.00	44.45	74.00	29.55
3612.000	23.33	AV	V	8.00	31.33	54.00	22.67
4515.000	37.58	PK	H	10.06	47.64	74.00	26.36
4515.000	27.53	AV	H	10.06	37.59	54.00	16.41
4515.000	35.10	PK	V	10.06	45.16	74.00	28.84
4515.000	22.52	AV	V	10.06	32.58	54.00	21.42
5418.000	35.05	PK	H	12.35	47.40	74.00	26.60
5418.000	22.69	AV	H	12.35	35.04	54.00	18.96
5418.000	34.33	PK	V	12.35	46.68	74.00	27.32
5418.000	21.28	AV	V	12.35	33.63	54.00	20.37
6321.000	34.63	PK	H	13.36	47.99	74.00	26.01
6321.000	21.50	AV	H	13.36	34.86	54.00	19.14
6321.000	34.44	PK	V	13.36	47.80	74.00	26.20
6321.000	21.46	AV	V	13.36	34.82	54.00	19.18
7224.000	34.77	PK	H	14.35	49.12	74.00	24.88
7224.000	21.31	AV	H	14.35	35.66	54.00	18.34
7224.000	33.86	PK	V	14.35	48.21	74.00	25.79
7224.000	20.35	AV	V	14.35	34.70	54.00	19.30
8127.000	33.69	PK	H	16.13	49.82	74.00	24.18
8127.000	20.71	AV	H	16.13	36.84	54.00	17.16
8127.000	33.59	PK	V	16.13	49.72	74.00	24.28
8127.000	20.63	AV	V	16.13	36.76	54.00	17.24
9030.000	41.07	PK	H	17.70	58.77	74.00	15.23
9030.000	31.77	AV	H	17.70	49.47	54.00	4.53
9030.000	40.97	PK	V	17.70	58.67	74.00	15.33
9030.000	31.16	AV	V	17.70	48.86	54.00	5.14
Middle Channel: 914.2 MHz							
914.20	81.67	QP	H	29.62	111.29	N/A	N/A
914.20	73.60	QP	V	29.62	103.22	N/A	N/A
1828.400	58.27	PK	H	1.43	59.70	74.00	14.30
1828.400	48.53	AV	H	1.43	49.96	54.00	4.04
1828.400	57.79	PK	V	1.43	59.22	74.00	14.78
1828.400	47.61	AV	V	1.43	49.04	54.00	4.96
2742.600	39.41	PK	H	4.90	44.31	74.00	29.69
2742.600	29.61	AV	H	4.90	34.51	54.00	19.49

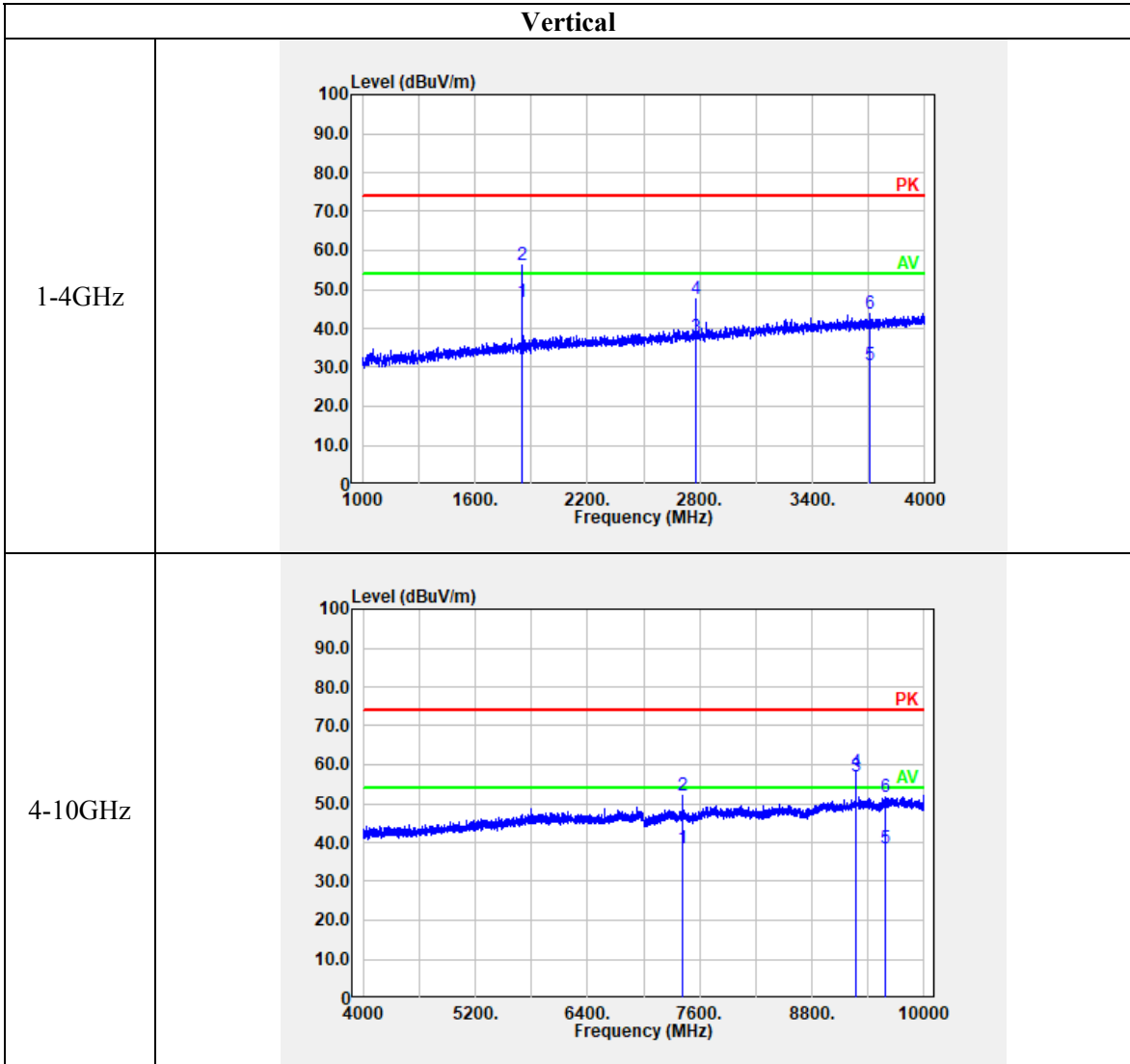
2742.600	39.38	PK	V	4.90	44.28	74.00	29.72
2742.600	29.34	AV	V	4.90	34.24	54.00	19.76
3656.800	35.57	PK	H	8.10	43.67	74.00	30.33
3656.800	23.41	AV	H	8.10	31.51	54.00	22.49
3656.800	34.45	PK	V	8.10	42.55	74.00	31.45
3656.800	21.72	AV	V	8.10	29.82	54.00	24.18
4571.000	36.52	PK	H	10.25	46.77	74.00	27.23
4571.000	23.44	AV	H	10.25	33.69	54.00	20.31
4571.000	35.45	PK	V	10.25	45.70	74.00	28.30
4571.000	22.11	AV	V	10.25	32.36	54.00	21.64
5485.200	35.30	PK	H	12.48	47.78	74.00	26.22
5485.200	22.41	AV	H	12.48	34.89	54.00	19.11
5485.200	34.25	PK	V	12.48	46.73	74.00	27.27
5485.200	21.51	AV	V	12.48	33.99	54.00	20.01
6399.400	34.44	PK	H	13.55	47.99	74.00	26.01
6399.400	21.42	AV	H	13.55	34.97	54.00	19.03
6399.400	34.31	PK	V	13.55	47.86	74.00	26.14
6399.400	21.20	AV	V	13.55	34.75	54.00	19.25
7313.600	35.63	PK	H	14.80	50.43	74.00	23.57
7313.600	22.47	AV	H	14.80	37.27	54.00	16.73
7313.600	34.25	PK	V	14.80	49.05	74.00	24.95
7313.600	21.45	AV	V	14.80	36.25	54.00	17.75
8227.800	35.81	PK	H	16.28	52.09	74.00	21.91
8227.800	22.55	AV	H	16.28	38.83	54.00	15.17
8227.800	34.49	PK	V	16.28	50.77	74.00	23.23
8227.800	21.39	AV	V	16.28	37.67	54.00	16.33
9142.000	37.44	PK	H	18.08	55.52	74.00	18.48
9142.000	27.46	AV	H	18.08	45.54	54.00	8.46
9142.000	34.25	PK	V	18.08	52.33	74.00	21.67
9142.000	21.63	AV	V	18.08	39.71	54.00	14.29
High Channel: 926.9 MHz							
926.90	79.44	QP	H	29.69	109.13	N/A	N/A
926.90	70.84	QP	V	29.69	100.53	N/A	N/A
928.00	51.44	QP	H	29.70	81.14	89.13	7.99
1853.800	56.23	PK	H	1.56	57.79	74.00	16.21
1853.800	45.67	AV	H	1.56	47.23	54.00	6.77
1853.800	54.78	PK	V	1.56	56.34	74.00	17.66
1853.800	44.69	AV	V	1.56	46.25	54.00	7.75
2780.700	44.73	PK	H	5.03	49.76	74.00	24.24
2780.700	34.82	AV	H	5.03	39.85	54.00	14.15
2780.700	44.36	PK	V	5.03	49.39	74.00	24.61
2780.700	34.57	AV	V	5.03	39.60	54.00	14.40
3707.600	36.21	PK	H	8.38	44.59	74.00	29.41
3707.600	23.54	AV	H	8.38	31.92	54.00	22.08
3707.600	35.72	PK	V	8.38	44.10	74.00	29.90
3707.600	22.34	AV	V	8.38	30.72	54.00	23.28
4634.500	35.28	PK	H	10.45	45.73	74.00	28.27
4634.500	22.50	AV	H	10.45	32.95	54.00	21.05
4634.500	35.11	PK	V	10.45	45.56	74.00	28.44
4634.500	22.42	AV	V	10.45	32.87	54.00	21.13
5561.400	35.06	PK	H	12.64	47.70	74.00	26.30
5561.400	22.30	AV	H	12.64	34.94	54.00	19.06
5561.400	34.65	PK	V	12.64	47.29	74.00	26.71
5561.400	21.52	AV	V	12.64	34.16	54.00	19.84
6488.300	34.71	PK	H	13.46	48.17	74.00	25.83

6488.300	21.60	AV	H	13.46	35.06	54.00	18.94
6488.300	34.20	PK	V	13.46	47.66	74.00	26.34
6488.300	21.57	AV	V	13.46	35.03	54.00	18.97
7415.200	35.36	PK	H	15.05	50.41	74.00	23.59
7415.200	22.45	AV	H	15.05	37.50	54.00	16.50
7415.200	35.25	PK	V	15.05	50.30	74.00	23.70
7415.200	22.37	AV	V	15.05	37.42	54.00	16.58
8342.100	34.52	PK	H	16.48	51.00	74.00	23.00
8342.100	21.46	AV	H	16.48	37.94	54.00	16.06
8342.100	34.25	PK	V	16.48	50.73	74.00	23.27
8342.100	21.44	AV	V	16.48	37.92	54.00	16.08
9269.000	41.36	PK	H	18.26	59.62	74.00	14.38
9269.000	31.86	AV	H	18.26	50.12	54.00	3.88
9269.000	39.63	PK	V	18.26	57.89	74.00	16.11
9269.000	29.80	AV	V	18.26	48.06	54.00	5.94

Worst Test plots (High channel was tested)



Vertical



4.3 6 dB Emission Bandwidth:

Serial Number:	27B0-1	Test Date:	2023/07/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.1
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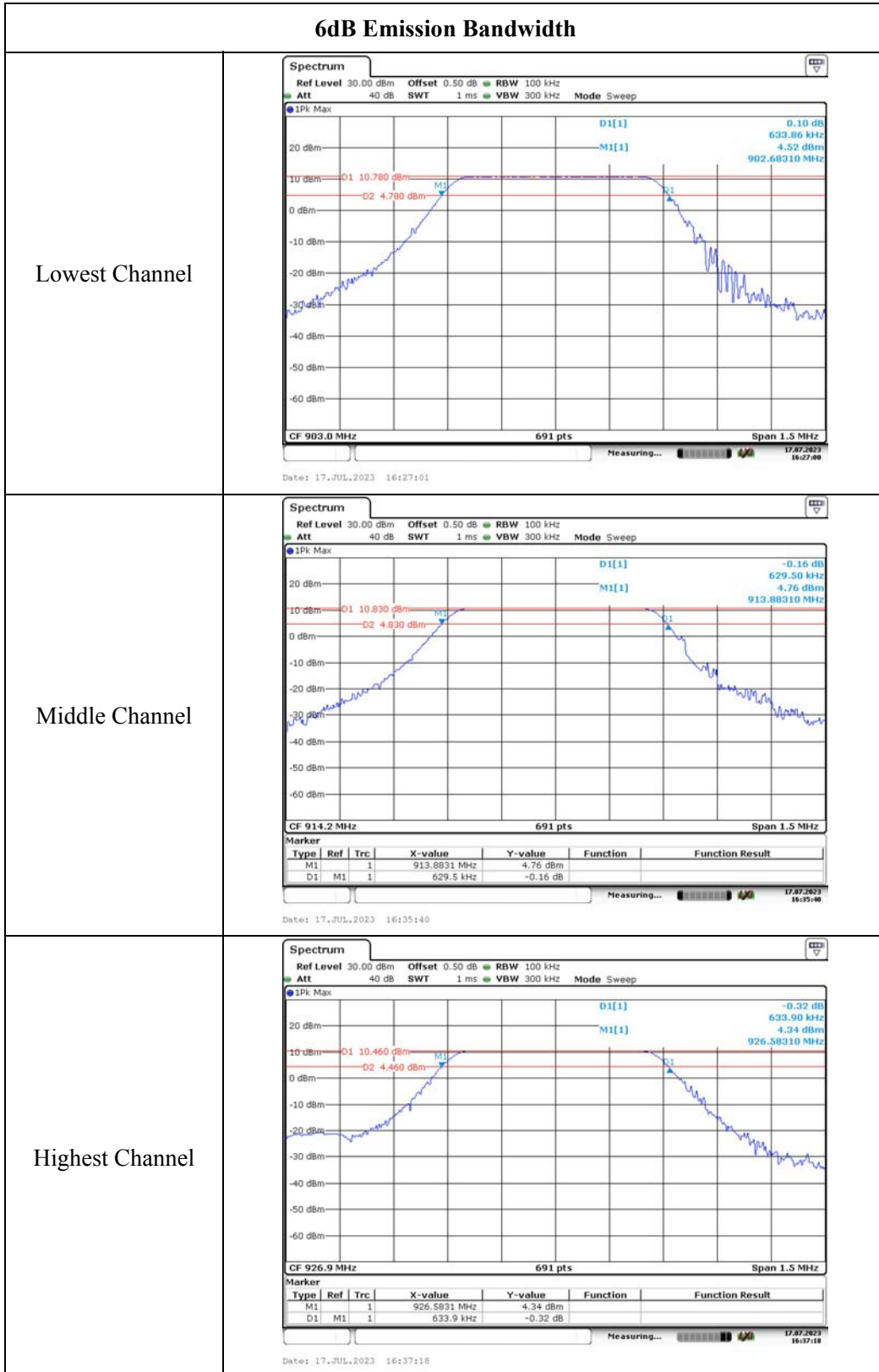
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* *Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
Lowest	903	0.634	≥ 0.5
Middle	914.2	0.630	≥ 0.5
Highest	926.9	0.634	≥ 0.5



4.4 Maximum Conducted Output Power:

Serial Number:	27B0-1	Test Date:	2023/07/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

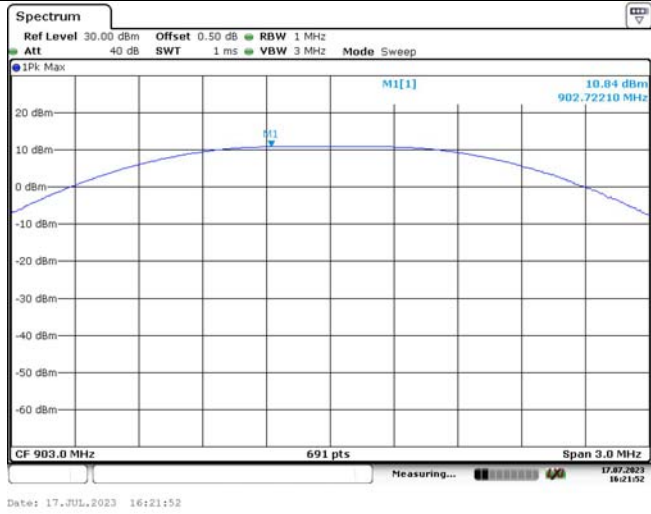
* *Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

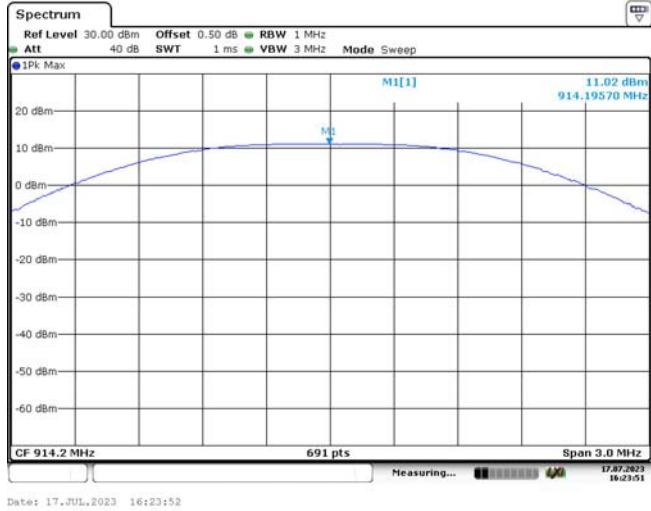
Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
Lowest	903	10.84	≤30
Middle	914.2	11.02	≤30
Highest	926.9	11.05	≤30

Maximum Conducted Output Power

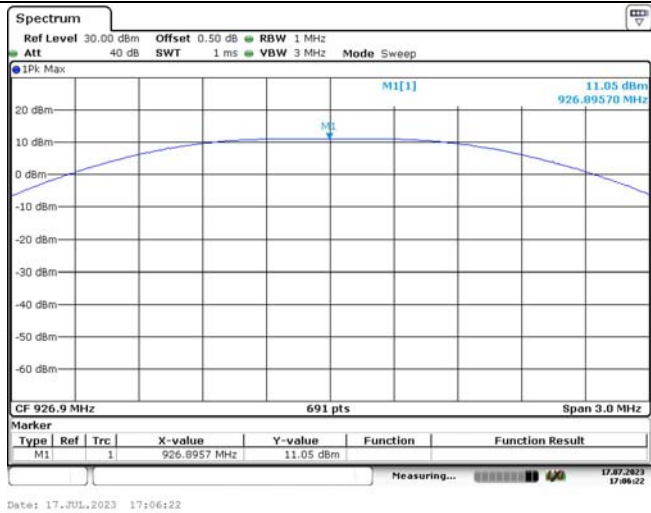
Lowest



Middle



Highest



4.5 Maximum power spectral density:

Serial Number:	27B0-1	Test Date:	2023/07/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.1
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Test Equipment List and Details:

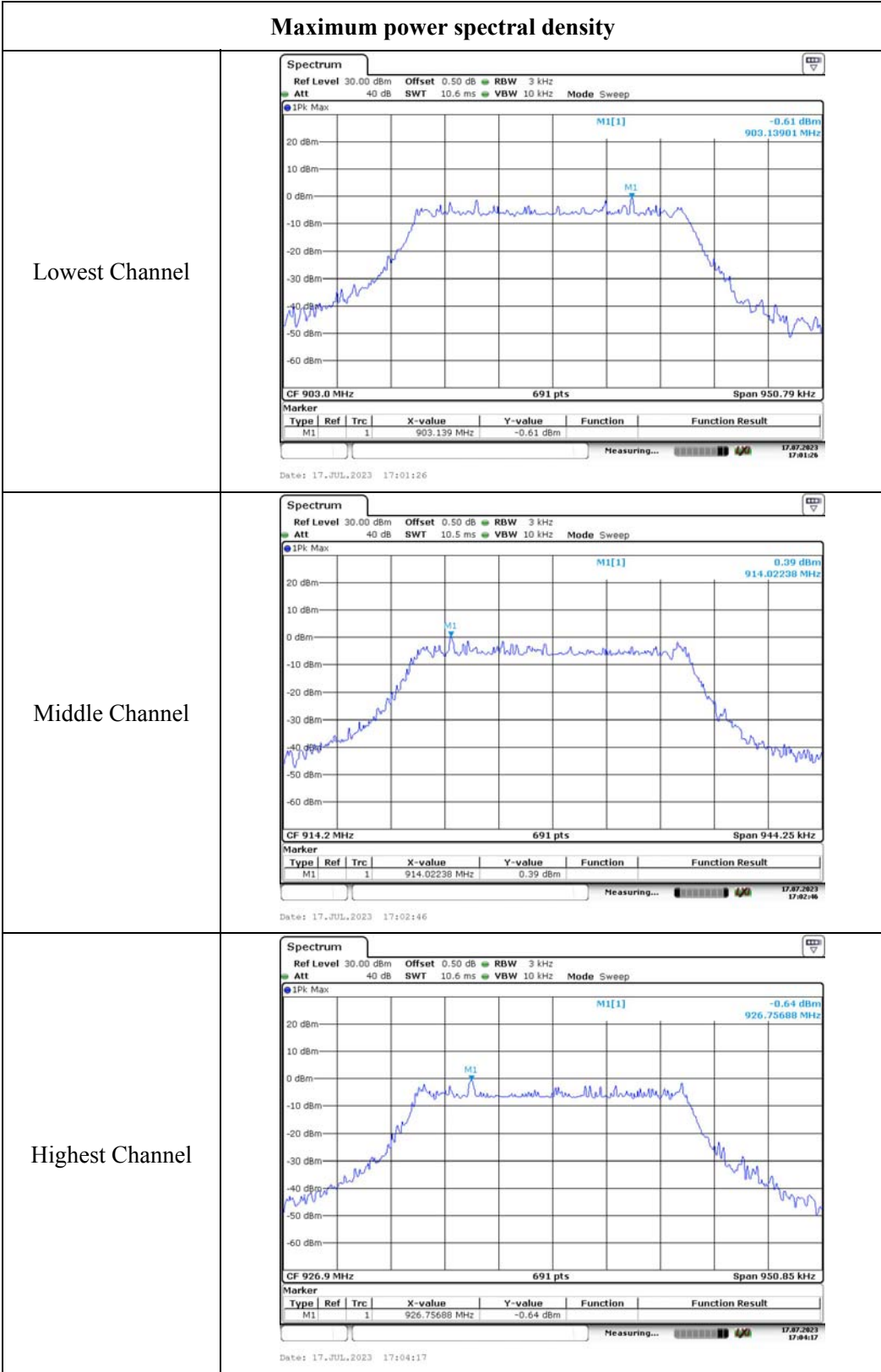
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Lowest	903	-0.61	≤8.00
Middle	914.2	0.39	≤8.00
Highest	926.9	-0.64	≤8.00

Maximum power spectral density



4.6 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	27B0-1	Test Date:	2023/07/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.1
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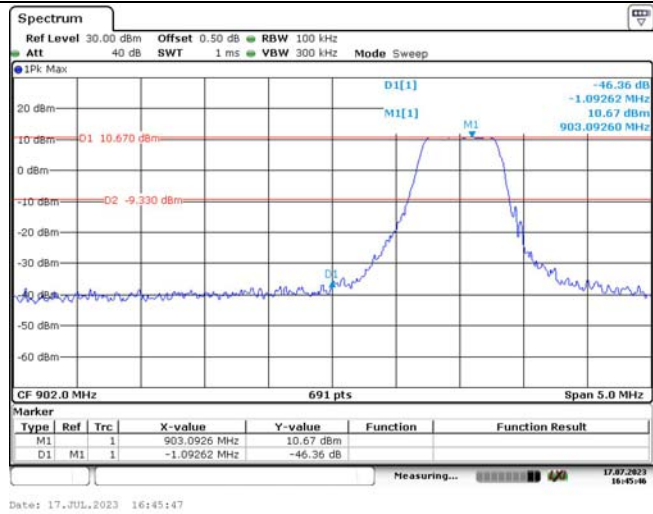
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

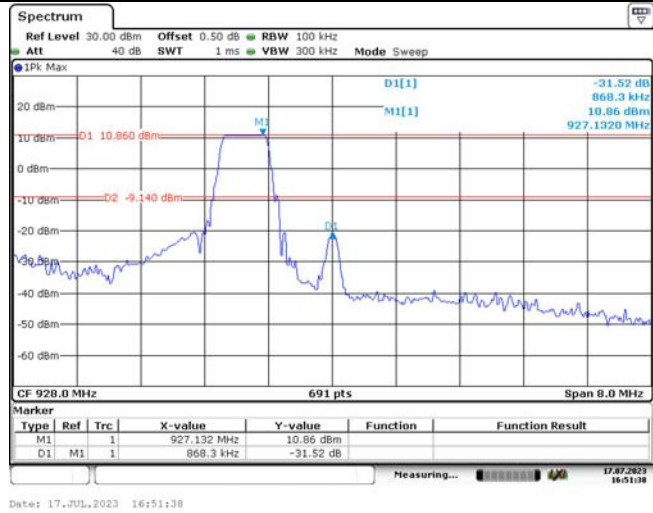
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

100 kHz Bandwidth of Frequency Band Edge

Lowest Band edge



Highest Band edge



4.7 Duty Cycle:

Serial Number:	27B0-1	Test Date:	2023/07/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	27	Relative Humidity: (%)	56	ATM Pressure: (kPa)	99.1
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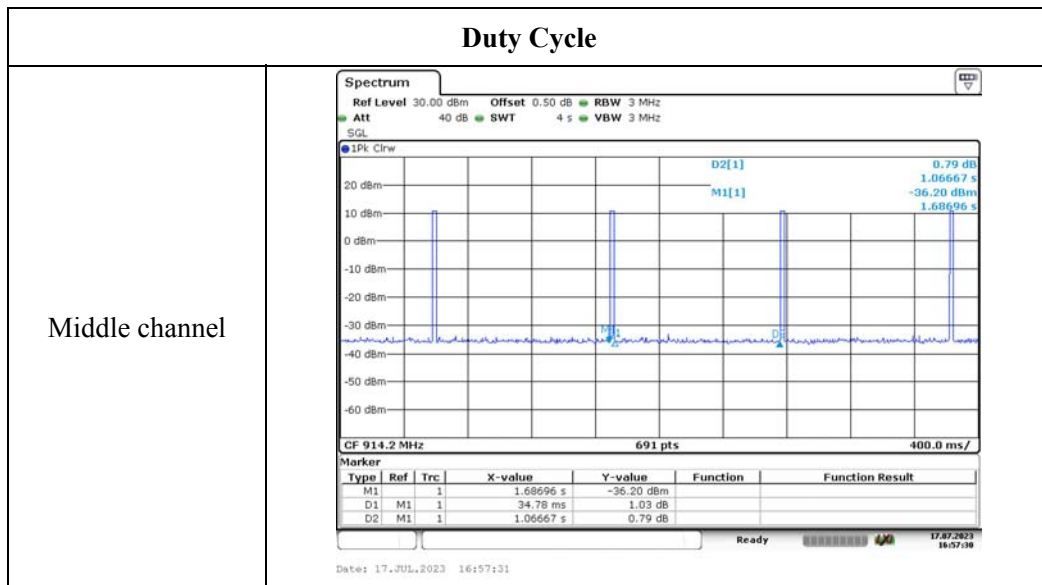
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Channel	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)
Middle	914.2	34.78	1066.67	3.26	29



5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

5.2 Measurement Result

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
Lora-FHSS	902.3-927.6	-3.31	0.47	12	15.85	20.00	0.0015	1
Lora-DTS	903-926.9	-3.31	0.47	11.5	14.13	20.00	0.0013	1

Note: the Lora-FHSS and Lora-DTS can't transmit simultaneously. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

===== END OF REPORT =====