

FCC RF Test Report

APPLICANT : Rolling Wireless S.a r.l.
EQUIPMENT : 5G module
BRAND NAME : Rolling Wireless
MODEL NAME : RW350R-GL
FCC ID : 2AX2URW350RGL
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jul. 20, 2026

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG660814B	Rev. 01	Initial issue of report	Jul. 28, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	$< 70 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 12.10 dB at 9231.00 MHz

Note: This is a variant report. The differences could be referred to the Product Equality Declaration which is exhibit separately. According to the change, only the related test cases from original test report (Sporton Report Number FG430728F) were verified for the differences.

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.2 Manufacturer

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G module
Brand Name	Rolling Wireless
Model Name	RW350R-GL
FCC ID	2AX2URW350RGL
IMEI Code	Radiation: 356413950856984 for Sample1 352126834111962 for Sample2
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2305 MHz ~ 2315 MHz
Rx Frequency	LTE Band 30 : 2350 MHz ~ 2360 MHz
Bandwidth	5MHz / 10MHz
Antenna Type	External Monopole Antenna or External PIFA Antenna
Antenna Gain	LTE Band 30 : 1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.8 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 27(D)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

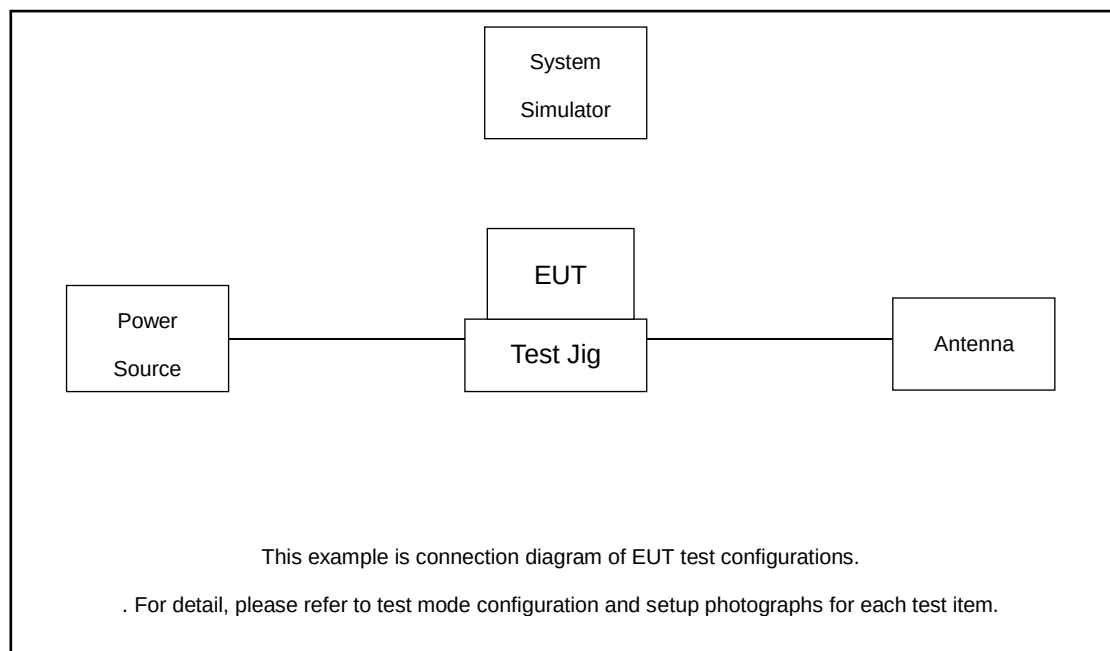
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	30	-	-	V		-	-	V				V			V	V	V
					V			V				V				V	
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

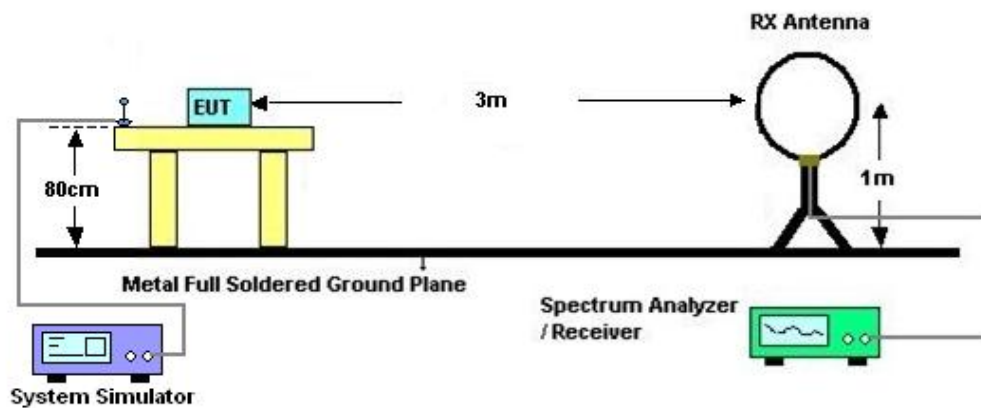
3 Radiated Test Items

3.1 Measuring Instruments

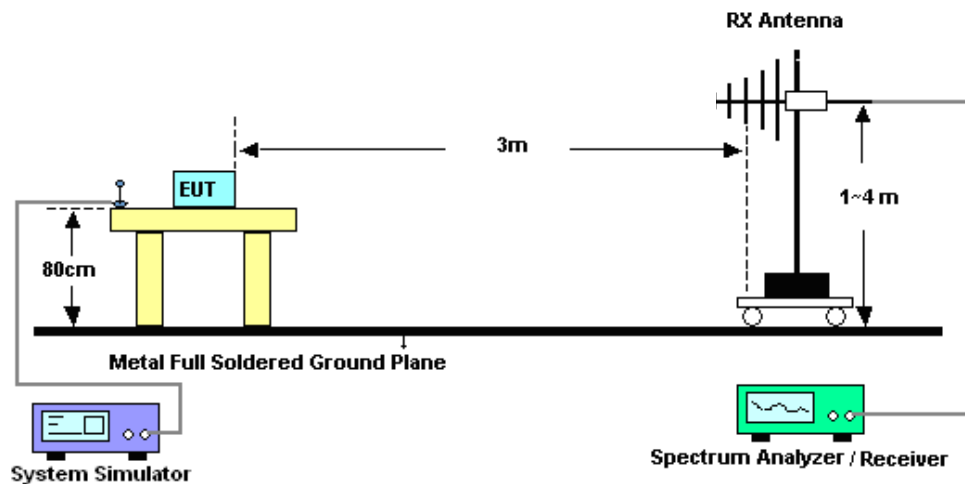
See list of measuring instruments of this test report.

3.2 Test Setup

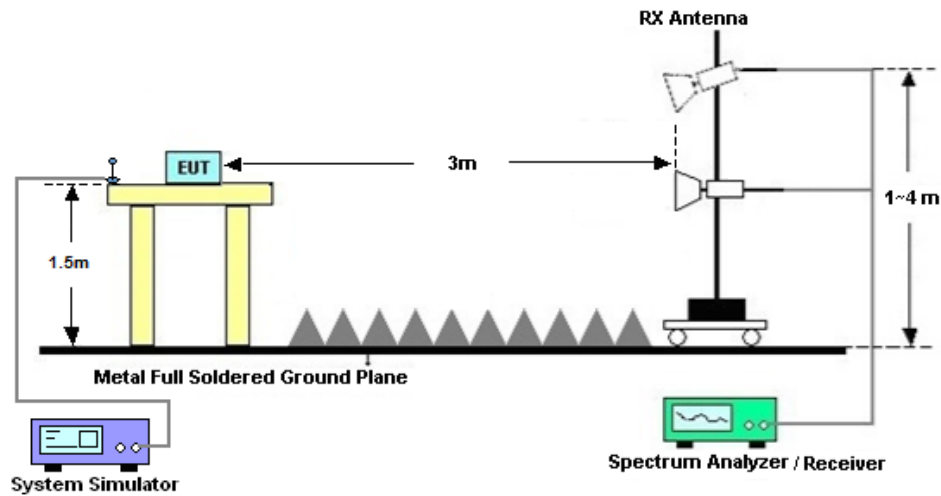
3.2.1 For radiated test below 30MHz



3.2.2 For radiated test from 30MHz to 1GHz



3.2.3 For radiated test above 1GHz



3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix A.

3.4 Radiated Spurious Emission Measurement

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm}.$$

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 02, 2026	Jul. 20, 2026	Jul. 01, 2027	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Dec. 23, 2025	Jul. 20, 2026	Dec. 22, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2026	Jul. 20, 2026	Jul. 03, 2027	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2026	Jul. 20, 2026	Jul. 02, 2027	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Jul. 20, 2026	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2025	Jul. 20, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 13, 2025	Jul. 20, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 13, 2025	Jul. 20, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 20, 2026	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 20, 2026	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72 dB
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----- THE END -----

Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

For Sample1:

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-61.34	-40	-21.34	-48.98	-67.59	6.30	12.55	H
	6915.75	-58.14	-40	-18.14	-50.40	-61.54	8.25	11.65	H
	9221.00	-52.65	-40	-12.65	-51.66	-55.00	9.50	11.85	H
	4610.50	-61.20	-40	-21.20	-49.22	-67.45	6.30	12.55	V
	6915.75	-57.37	-40	-17.37	-50.11	-60.77	8.25	11.65	V
	9221.00	-53.47	-40	-13.47	-51.66	-55.82	9.50	11.85	V
Middle	4615.50	-61.58	-40	-21.58	-49.22	-67.83	6.45	12.70	H
	6923.25	-57.94	-40	-17.94	-50.20	-61.34	8.40	11.80	H
	9231.00	-52.52	-40	-12.52	-51.53	-54.87	9.65	12.00	H
	4615.50	-61.18	-40	-21.18	-49.2	-67.43	6.45	12.70	V
	6923.25	-57.49	-40	-17.49	-50.23	-60.89	8.40	11.80	V
	9231.00	-52.98	-40	-12.98	-51.17	-55.33	9.65	12.00	V
Highest	4620.50	-61.07	-40	-21.07	-48.71	-67.32	6.61	12.86	H
	6930.75	-57.33	-40	-17.33	-49.72	-60.71	8.56	11.94	H
	9241.00	-52.40	-40	-12.40	-51.45	-54.75	9.81	12.16	H
	4620.50	-60.89	-40	-20.89	-48.91	-67.14	6.61	12.86	V
	6930.75	-57.34	-40	-17.34	-50.2	-60.72	8.56	11.94	V
	9241.00	-53.18	-40	-13.18	-51.39	-55.53	9.81	12.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.00	-61.42	-40	-21.42	-49.06	-67.67	6.45	12.70	H
	6916.50	-57.50	-40	-17.50	-49.76	-60.90	8.40	11.80	H
	9222.00	-52.22	-40	-12.22	-51.23	-54.57	9.65	12.00	H
	4611.00	-60.69	-40	-20.69	-48.71	-66.94	6.45	12.70	V
	6916.50	-56.43	-40	-16.43	-49.17	-59.83	8.40	11.80	V
	9222.00	-52.65	-40	-12.65	-50.84	-55.00	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

For Sample2:

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-61.57	-40	-21.57	-49.21	-67.82	6.30	12.55	H
	6915.75	-57.69	-40	-17.69	-49.95	-61.09	8.25	11.65	H
	9221.00	-52.72	-40	-12.72	-51.73	-55.07	9.50	11.85	H
	4610.50	-61.21	-40	-21.21	-49.23	-67.46	6.30	12.55	V
	6915.75	-56.99	-40	-16.99	-49.73	-60.39	8.25	11.65	V
	9221.00	-53.46	-40	-13.46	-51.65	-55.81	9.50	11.85	V
Middle	4615.50	-61.42	-40	-21.42	-49.06	-67.67	6.45	12.70	H
	6923.25	-57.48	-40	-17.48	-49.74	-60.88	8.40	11.80	H
	9231.00	-52.10	-40	-12.10	-51.11	-54.45	9.65	12.00	H
	4615.50	-60.66	-40	-20.66	-48.68	-66.91	6.45	12.70	V
	6923.25	-56.91	-40	-16.91	-49.65	-60.31	8.40	11.80	V
	9231.00	-52.38	-40	-12.38	-50.57	-54.73	9.65	12.00	V
Highest	4620.50	-60.90	-40	-20.90	-48.54	-67.15	6.61	12.86	H
	6930.75	-58.06	-40	-18.06	-50.45	-61.44	8.56	11.94	H
	9241.00	-52.47	-40	-12.47	-51.52	-54.82	9.81	12.16	H
	4620.50	-60.72	-40	-20.72	-48.74	-66.97	6.61	12.86	V
	6930.75	-57.27	-40	-17.27	-50.13	-60.65	8.56	11.94	V
	9241.00	-53.47	-40	-13.47	-51.68	-55.82	9.81	12.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.00	-60.86	-40	-20.86	-48.50	-67.11	6.45	12.70	H
	6916.50	-57.49	-40	-17.49	-49.75	-60.89	8.40	11.80	H
	9222.00	-52.33	-40	-12.33	-51.34	-54.68	9.65	12.00	H
	4611.00	-60.85	-40	-20.85	-48.87	-67.10	6.45	12.70	V
	6916.50	-57.11	-40	-17.11	-49.85	-60.51	8.40	11.80	V
	9222.00	-52.80	-40	-12.80	-50.99	-55.15	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.