

TEST REPORT

Application No.: KSCR2511002419AT
FCC ID: 2BF29GT573-LAAG35LA
Applicant: GOSUNCNWLINK TECHNOLOGY CO.,LTD.
Address of Applicant: ROOM 606, TOWER A. GONGXIANG BUILDING, NO.78 NORTH KEYUAN ROAD, NANSHAN DISTRICT, SHENZHEN, CHINA
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, No. 2819, KaiChuang Avenue, Science City, Huangpu District, Guangzhou City, Guangdong Province, China
Factory: DBG TECHNOLOGY CO., LTD
Address of Factory: No.5, Yongda Road, Xiang Shui River Industrial Area, Daya Bay, Huizhou City, 516083 Guangdong, P. R. China
Equipment Under Test (EUT):
EUT Name: HARDWARE ASSY-TELEMATIC NODE
Model No.: GT573-LA
Trade Mark: GOSUNCN
Standard(s) : 47 CFR FCC Part 2
47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
Date of Receipt: 2025-11-04
Date of Test: 2025-11-10 to 2025-11-24
Date of Issue: 2025-11-25

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-11-25	/

Authorized for issue by:				
Tested By		Maker Qi		
		Maker_Qi/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		

2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §22.913 §24.232 §27.50(d)	EIRP≤2W (Band 2) EIRP≤1W (Band 4) ERP≤7W (Band 5)	PASS
Peak-Average Ratio	§24.232 §27.50(d)	≤13dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Radiated spurious emissions	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235 §27.54	≤ ±2.5ppm.	PASS

Note: This host product using a certified module(FCC ID: XMR201905AG35LA).

The host integrator declares that they have followed the integration instructions provided by the module manufacturer and ensure that the end product complies with the FCC requirements by a technical evaluation to the FCC rules and to KDB Publication 996369.

This report is a change from the original report. The main changes are the addition of a CAN bus to the hardware block diagram and the replacement of the external antenna with two new antennas, so Radiated spurious emissions are retested. For other data, refer to the original report KSCR240300045602.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Voltage Range: 9V~16V, Rating: 12V 0.6A
Test Voltage:	DC 12V
Operation Frequency:	Band 2:TX:1850 -1910 MHz RX:1930 - 1990 MHz Band 4:TX:1710 -1755MHz RX:2110 - 2155MHz Band 5:TX:824 - 849MHz RX:869 - 894MHz
Modulation Type:	BPSK/QPSK/16QAM(16QAM uplink is not supported)/64QAM
Antenna Type:	External Antenna
Antenna A Gain (6608364488):	Band 2:1.2dBi (Provided by the manufacturer) Band 4:1.2dBi (Provided by the manufacturer) Band 5:-0.6dBi (Provided by the manufacturer)
Antenna B Gain (6608172096):	Band 2:1.5dBi (Provided by the manufacturer) Band 4:1.5dBi (Provided by the manufacturer) Band 5:-1dBi (Provided by the manufacturer)

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	Agilent	E3632A	/

4.3 Test Frequency

Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B2	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960 MHz	1987.6 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B4	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
	RX	Channel 1537	Channel 1638	Channel 1738
		2112.4 MHz	2132.6 MHz	2152.6 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA B5	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
	RX	Channel 4357	Channel 4408	Channel 4458
		871.4 MHz	881.6 MHz	891.6 MHz

4.4 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	101kPa	
Temperature:	TN	25 °C
Voltage:	VL	9V
	VN	12V
	VH	16V

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
13	Software	Faratronic	EZ_EMV-3A1	/	NCR	NCR
14	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Matter Test Results

6.1 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: $\leq -13\text{dBm}$

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

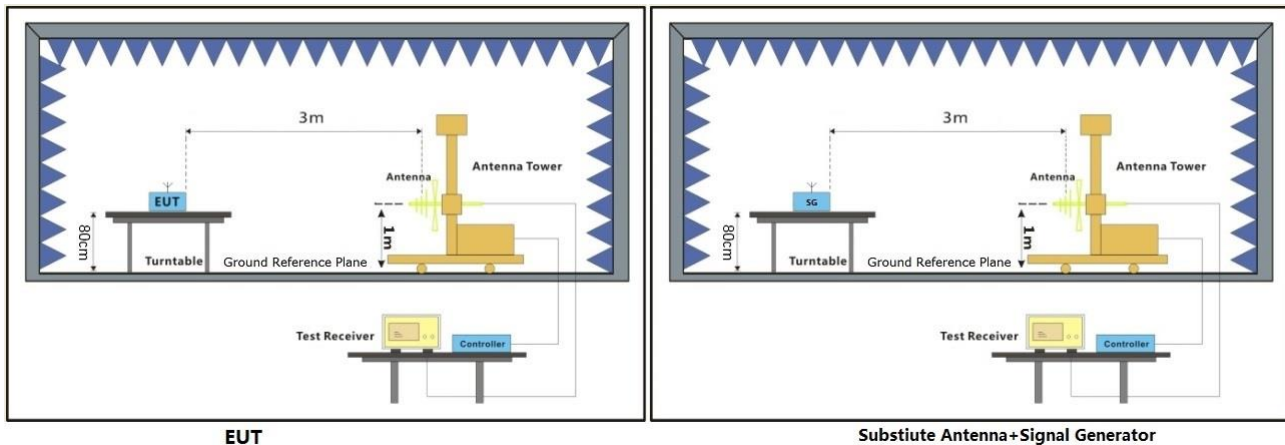
Humidity: 50.2 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	TX mode_Keep the EUT in transmitting mode

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

Antenna A(6608364488):

WCDMA BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3704.800	-53.42	-13	-40.42	Horizontal
5557.200	-57.12	-13	-44.12	Horizontal
7409.600	-55.52	-13	-42.52	Horizontal
3704.800	-59.19	-13	-46.19	Vertical
5557.200	-57.88	-13	-44.88	Vertical
7409.600	-56.56	-13	-43.56	Vertical

WCDMA BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-57.47	-13	-44.47	Horizontal
5640.000	-57.46	-13	-44.46	Horizontal
7520.000	-55.96	-13	-42.96	Horizontal
3760.000	-50.77	-13	-37.77	Vertical
5640.000	-58.22	-13	-45.22	Vertical
7520.000	-59.59	-13	-46.59	Vertical

WCDMA BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3815.200	-57.08	-13	-44.08	Horizontal
5722.800	-60.15	-13	-47.15	Horizontal
7630.400	-57.13	-13	-44.13	Horizontal
3815.200	-58.17	-13	-45.17	Vertical
5722.800	-61.49	-13	-48.49	Vertical
7630.400	-54.19	-13	-41.19	Vertical

WCDMA BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-52.58	-13	-39.58	Horizontal
5160.000	-48.95	-13	-35.95	Horizontal
6880.000	-44.56	-13	-31.56	Horizontal
3440.000	-44.67	-13	-31.67	Vertical
5160.000	-50.41	-13	-37.41	Vertical
6880.000	-47.24	-13	-34.24	Vertical

WCDMA BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.200	-41.30	-13	-28.30	Horizontal
5197.800	-50.90	-13	-37.90	Horizontal
6930.400	-45.07	-13	-32.07	Horizontal
3465.200	-47.30	-13	-34.30	Vertical
5197.800	-51.26	-13	-38.26	Vertical
6930.400	-45.63	-13	-32.63	Vertical

WCDMA BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-49.93	-13	-36.93	Horizontal
5235.000	-50.06	-13	-37.06	Horizontal
6980.000	-43.05	-13	-30.05	Horizontal
3490.000	-51.82	-13	-38.82	Vertical
5235.000	-49.49	-13	-36.49	Vertical
6980.000	-42.20	-13	-29.20	Vertical

WCDMA BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1652.800	-53.77	-13	-40.77	Horizontal
2479.200	-51.43	-13	-38.43	Horizontal
3305.600	-45.27	-13	-32.27	Horizontal
1652.800	-45.77	-13	-32.77	Vertical
2479.200	-46.94	-13	-33.94	Vertical
3305.600	-47.75	-13	-34.75	Vertical

WCDMA BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1672.800	-40.38	-13	-27.38	Horizontal
2509.200	-50.69	-13	-37.69	Horizontal
3345.600	-47.04	-13	-34.04	Horizontal
1672.800	-44.86	-13	-31.86	Vertical
2509.200	-50.03	-13	-37.03	Vertical
3345.600	-47.39	-13	-34.39	Vertical

WCDMA BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1692.800	-46.04	-13	-33.04	Horizontal
2539.200	-49.81	-13	-36.81	Horizontal
3385.600	-42.57	-13	-29.57	Horizontal
1692.800	-47.92	-13	-34.92	Vertical
2539.200	-49.18	-13	-36.18	Vertical
3385.600	-43.56	-13	-30.56	Vertical

Antenna B(6608172096):

WCDMA BAND 2-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3704.800	-58.76	-13	-45.76	Horizontal
5557.200	-59.86	-13	-46.86	Horizontal
7409.600	-56.12	-13	-43.12	Horizontal
3704.800	-52.62	-13	-39.62	Vertical
5557.200	-60.07	-13	-47.07	Vertical
7409.600	-56.69	-13	-43.69	Vertical

WCDMA BAND 2-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3760.000	-55.50	-13	-42.50	Horizontal
5640.000	-61.66	-13	-48.66	Horizontal
7520.000	-55.01	-13	-42.01	Horizontal
3760.000	-58.26	-13	-45.26	Vertical
5640.000	-60.12	-13	-47.12	Vertical
7520.000	-59.60	-13	-46.60	Vertical

WCDMA BAND 2-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3815.200	-60.62	-13	-47.62	Horizontal
5722.800	-63.16	-13	-50.16	Horizontal
7630.400	-53.80	-13	-40.80	Horizontal
3815.200	-59.32	-13	-46.32	Vertical
5722.800	-63.34	-13	-50.34	Vertical
7630.400	-55.09	-13	-42.09	Vertical

WCDMA BAND 4-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3440.000	-50.69	-13	-37.69	Horizontal
5160.000	-50.26	-13	-37.26	Horizontal
6880.000	-48.03	-13	-35.03	Horizontal
3440.000	-51.76	-13	-38.76	Vertical
5160.000	-46.71	-13	-33.71	Vertical
6880.000	-45.23	-13	-32.23	Vertical

WCDMA BAND 4-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3465.200	-40.78	-13	-27.78	Horizontal
5197.800	-49.92	-13	-36.92	Horizontal
6930.400	-47.24	-13	-34.24	Horizontal
3465.200	-48.68	-13	-35.68	Vertical
5197.800	-53.59	-13	-40.59	Vertical
6930.400	-47.94	-13	-34.94	Vertical

WCDMA BAND 4-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
3490.000	-48.94	-13	-35.94	Horizontal
5235.000	-51.24	-13	-38.24	Horizontal
6980.000	-44.22	-13	-31.22	Horizontal
3490.000	-52.42	-13	-39.42	Vertical
5235.000	-50.48	-13	-37.48	Vertical
6980.000	-44.95	-13	-31.95	Vertical

WCDMA BAND 5-Low channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1652.800	-50.44	-13	-37.44	Horizontal
2479.200	-51.52	-13	-38.52	Horizontal
3305.600	-47.83	-13	-34.83	Horizontal
1652.800	-50.77	-13	-37.77	Vertical
2479.200	-51.15	-13	-38.15	Vertical
3305.600	-48.84	-13	-35.84	Vertical

WCDMA BAND 5-Middle channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1672.800	-42.72	-13	-29.72	Horizontal
2509.200	-51.40	-13	-38.40	Horizontal
3345.600	-47.24	-13	-34.24	Horizontal
1672.800	-47.46	-13	-34.46	Vertical
2509.200	-53.15	-13	-40.15	Vertical
3345.600	-44.18	-13	-31.18	Vertical

WCDMA BAND 5-High channel				
Frequency (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization
1692.800	-46.35	-13	-33.35	Horizontal
2539.200	-51.76	-13	-38.76	Horizontal
3385.600	-44.73	-13	-31.73	Horizontal
1692.800	-50.29	-13	-37.29	Vertical
2539.200	-49.14	-13	-36.14	Vertical
3385.600	-40.88	-13	-27.88	Vertical

Remark:

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2511002419AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2511002419AT

- End of the Report -