



MPE Report

Report No.:STS2604373H01

Issued for

Hangzhou Vision Link Intelligence Technology Co., Ltd
Room 117, No. 68 Shengtao Shanyun, Xingzhou Garden,
Wenxin Subdistrict, West Lake District, Hangzhou City,
Zhejiang Province, China

Product Name: 4G module

Brand Name: N/A

Model Name: SY288

Series Model(s): N/A

FCC ID: 2BS8J-SY288

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Hangzhou Vision Link Intelligence Technology Co., Ltd
Address: Room 117, No. 68 Shengtao Shanyun, Xingzhou Garden, Wenxin Subdistrict, West Lake District, Hangzhou City, Zhejiang Province, China
Manufacturer's Name: Hangzhou Vision Link Intelligence Technology Co., Ltd
Address: Room 117, No. 68 Shengtao Shanyun, Xingzhou Garden, Wenxin Subdistrict, West Lake District, Hangzhou City, Zhejiang Province, China

Product Description

Product Name: 4G module

Brand Name: N/A

Model Name: SY288

Series Model(s): N/A

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test:

Date of receipt of test item: 15 Apr. 2026

Date (s) of performance of tests: 15 Apr. 2026~22 Apr. 2026

Date of Issue: 22 Apr. 2026

Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Apr. 2026	STS2604373H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G module	
Brand Name	N/A	
Model Name	SY288	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is 4G module	
	Operation Frequency:	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 7:2500~2570MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 14:788-798 MHz LTE Band 17: 704-716 MHz LTE Band 25:1850~1915MHz LTE Band 26 Part 90:814~824MHz LTE Band 26 Part 22:824-849 MHz LTE Band 38:2570-2620 MHz LTE Band 41: 2496-2690MHz LTE Band 66:1710~1780MHz LTE Band 71: 663-698 MHz
	Modulation Type:	LTE: QPSK /16QAM
	Antenna gain:	LTE 2:0.35 dBi LTE 4:1.71 dBi LTE 5:1.4 dBi LTE 7:0.75 dBi LTE 12:2.17 dBi LTE 13:2.15 dBi LTE 14:0.69 dBi LTE 17:2.17 dBi LTE 25:0.35 dBi LTE 26:1.4 dBi LTE 38:-0.12 dBi LTE 41:0.75 dBi LTE 66:1.71 dBi LTE 71:1.77 dBi
	Antenna Designation:	FPC
Power Rating	Input: 3.3V~4.3V DC(Normal: 3.8VDC)	
Adapter	N/A	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	



1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
LTE Band 2	AV	21±1 dBm
LTE Band 4	AV	21±1 dBm
LTE Band 5	AV	21±1 dBm
LTE Band 7	AV	21±1 dBm
LTE Band 12	AV	21±1 dBm
LTE Band 13	AV	21±1 dBm
LTE Band 14	AV	21±1 dBm
LTE Band 17	AV	21±1 dBm
LTE Band 25	AV	21±1 dBm
LTE Band 26	AV	21±1 dBm
LTE Band 38	AV	21±1 dBm
LTE Band 41	AV	21±1 dBm
LTE Band 66	AV	21±1 dBm
LTE Band 71	AV	21±1 dBm

RF Function	Frequency (MHz)	Separation distance (cm)	Max AVG Power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
LTE B2	1850	20	20.71	0.35	22.35	171.791	0.034	1	0.0342	Pass
LTE B4	1710	20	20.51	1.71	23.71	234.963	0.047	1	0.0467	Pass
LTE B5	824	20	20.67	1.4	23.40	218.776	0.044	0.549	0.0792	Pass
LTE B7	2500	20	20.37	0.75	22.75	188.365	0.037	1	0.0375	Pass
LTE B12	699	20	20.53	2.17	24.17	261.216	0.052	0.466	0.1115	Pass
LTE B13	777	20	21.36	2.15	24.15	260.016	0.052	0.518	0.0999	Pass
LTE B14	788	20	21.48	0.69	22.69	185.780	0.037	0.525	0.0704	Pass
LTE B17	704	20	20.72	2.17	24.17	261.216	0.052	0.469	0.1107	Pass
LTE B25	1850	20	21.05	0.35	22.35	171.791	0.034	1	0.0342	Pass
LTE B26	814	20	20.87	1.4	23.40	218.776	0.044	0.543	0.0802	Pass
LTE B38	2570	20	20.71	-0.1	21.88	154.170	0.031	1	0.0307	Pass
LTE B41	2496	20	21.17	0.75	22.75	188.365	0.037	1	0.0375	Pass
LTE B66	1710	20	20.79	1.71	23.71	234.963	0.047	1	0.0467	Pass
LTE B71	663	20	21.17	1.77	23.77	238.232	0.047	0.442	0.1072	Pass

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15

※※※※※END OF THE REPORT※※※※※