

Report No.: SUCR240800031402

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TEST REPORT

Application No.: SUCR2408000314MO

Applicant: NETPRISMA INC.

Address of Applicant: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

Manufacturer: NETPRISMA INC.

Address of Manufacturer: 1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

EUT Description: 5G Sub-6 GHz M.2 Module

Model No.: FCUN69-WWD

Trade Mark: Vrileg

FCC ID: 2BEY3FCUN69M Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

April 10, 2024 (for report SUCR240400008903) Date of Receipt:

September 27, 2024 (for report SUCR240800031402)

Date of Issue: September 27, 2024

Test Result: PASS*

In the configuration tested, the EUT complied with the standards specified above.

Prepared by : Nature Shen / Project

Nature Shen

Manager

Approved by : Cloud Peng /

Technical Manager

Cloud Peng

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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.

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Version

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		September 27, 2024		Original					

Remark:

This test report (Report No.: SUCR240800031402 issue on 2024/09/27) is based on the original test report (Report No.: SUCR240400008903 issue on 2024/07/12).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Therefore in this report all items do not need to recalculated and all test data in this report are based on the previous report with report number SUCR240400008903 issue on 2024/07/12.

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980



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General Information

2.1 Client Information

Applicant:	NETPRISMA INC.
Address of Applicant:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES
Manufacturer:	NETPRISMA INC.
Address of Manufacturer:	1301 6TH AVE, SEATTLE, WA, 98101-2304, UNITED STATES

2.2 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.3 General Description of EUT

EUT Description:	5G Sub-6 GHz M.2 Module											
Model No.:	FCUN69-WWD											
Trade Mark:	Vrileg											
Hardware Version:	R1.0	R1.0										
Software Version:	FCUN69WWDBL0	FCUN69WWDBL0302										
Power Supply:	3.7V											
Antenna Type:	PIFA Antenna	PIFA Antenna										
Feature:	UL 2*2 MIMO:	JL 2*2 MIMO:										
realure.	NR Band n38; NR	Band n41; NR Band n4	18; NR Band n77; NR	Band n78								
Power Class:	Class 2: LTE Band	1 41;LTE UL CA_41C; N	NR Band n41; NR Ba	nd n77; NR Band n78								
	WCDMA Band II:	3.87dBi(NPANT001)	WCDMA Band IV:	3.91dBi(NPANT001)								
	WCDMA Band V:	3.32dBi(NPANT002)										
	LTE Band 2:	3.87dBi(NPANT001)	LTE Band 4:	3.91dBi(NPANT001)								
	LTE Band 5:	3.32dBi(NPANT002)	LTE Band 7:	3.16dBi(NPANT002)								
	LTE Band 12:	3.19dBi(NPANT004)	LTE Band 13:	3.28dBi(NPANT002)								
	LTE Band 14:	3.25dBi(NPANT002)	LTE Band 17:	3.19dBi(NPANT004)								
	LTE Band 25:	3.87dBi(NPANT001)	LTE Band 26:	3.32dBi(NPANT002)								
	LTE Band 30:	0.98dBi(NPANT003)	LTE Band 38:	3.07dBi(NPANT002)								
	LTE Band 41:	3.16dBi(NPANT002)	LTE Band 42:	2.35dBi(NPANT004)								
	LTE Band 43:	1.94dBi(NPANT004)	LTE Band 48:	1dBi(NPANT003)								
Antenna Gain:	LTE Band 66:	3.91dBi(NPANT001)	LTE Band 71:	3.07dBi(NPANT001)								
	LTE CA_2C:	3.87dBi(NPANT001)	LTE CA_5B:	3.32dBi(NPANT002)								
	LTE CA_7C:	3.16dBi(NPANT002)	LTE CA_38C:	3.07dBi(NPANT002)								
	LTE CA_41C:	3.16dBi(NPANT002)	LTE CA_42C:	2.35dBi(NPANT004)								
	LTE CA_43C:	1.94dBi(NPANT004)	LTE CA_48C:	1dBi(NPANT003)								
	LTE CA_66C:	3.91dBi(NPANT001)	LTE CA_66B:	3.91dBi(NPANT001)								
	NR Band n2:	3.87dBi(NPANT001)	NR Band n5:	3.32dBi(NPANT002)								
	NR Band n7:	3.16dBi(NPANT002)	NR Band n12:	3.19dBi(NPANT004)								
	NR Band n13:	3.28dBi(NPANT002)	NR Band n14:	3.25dBi(NPANT002)								
	NR Band n25:	3.87dBi(NPANT001)	NR Band n26:	3.32dBi(NPANT002)								
	NR Band n30:	0.98dBi(NPANT003)	NR Band n38:	3.07dBi(NPANT002)								

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NR Band n41:	3.16dBi(NPANT002)	NR Band n48:	1dBi(NPANT003)
NR Band n66:	3.91dBi(NPANT001)	NR Band n71:	3.07dBi(NPANT001)
NR Band n77(3450)-3550): 2.35dBi(NPAN	T004)	
NR Band n77(3700)-3980): 1.94dBi(NPAN	T004)	
NR Band n78(3450)-3550): 2.35dBi(NPAN	T004)	
NR Band n78(3700)-3800): 1.94dBi(NPAN	T004)	
LTE UL CA:			
CA_2C, CA_5B, C	A_7C, CA_38C, CA_41	IC, CA_42C, CA_4	13C, CA_66B,
CA_66C, CA_48C;			
UL CA_2A-4A; UL	CA_2A-5A; UL CA_2A	-7A; UL CA_2A-12	2A;
UL CA_2A-13A; UI	_ CA_2A-30A; UL CA_2	2A-66A; UL CA_4	4-5A;
UL CA_4A-7A; UL	CA_4A-12A; UL CA_4	A-13A; UL CA_4A	-30A;
UL CA_5A-7A; UL	CA_5A-30A; UL CA_5	A-66A; UL CA_12/	A-30A;
UL CA_12A-66A; U ENDC:	JL CA_13A-66A; UL CA	A_14A-30A;	
DC_13A_n66A;DC	_5A_n2A;DC_14A_n2 <i>i</i>	A;DC_30A_n2A;D0	C_2A_n5A;
DC_30A_n5A;DC_	66A_n5A;DC_2A_n12A	A;DC_66A_n12A;[DC_2A_n66A;
DC_5A_n66A;DC_	.12A_n66A;DC_14A_n6	66A;DC_30A_n66	A;DC_12A_n2A;
DC_66A_n2A;DC_	71A_n2A;DC_12A_n41	1A;DC_71A_n66A	;DC_2A_n71A;
DC_66A_n71A;DC	_66A_n25A;DC_25A_r	n41A;DC_12A_n78	BA;DC_13A_n78A;
DC_25A_n78A;DC	_12A_n77A;DC_13A_r	n77A;DC_14A_n7	7A;DC_26A_n78A;
DC_2A_n78A;DC_	26A_n41A;DC_2A_n41	1A;DC_7A_n5A;D0	C_38A_n78A;
DC_7A_n71A;DC_	41A_n78A;DC_5A_n7 <i>A</i>	A;DC_12A_n7A;D0	C_66A_n7A;
DC_13A_n2A;DC_	7A_n66A;DC_2A_n48 <i>A</i>	A;DC_5A_n48A;D0	C_13A_n48A;
DC_66A_n48A;DC	_4A_n78A;DC_20A_n7	77A;DC_5A_n78A	;DC_4A_n41A;
DC_66A_n38A;DC	_2A_n38A;DC_12A_n3	38A;DC_4A_n38A	;DC_5A_n38A;
DC_66A_n78A;DC	_12A_n25A;DC_25A_r	n77A;DC_2A_n77	A;DC_71A_n78A;
DC_71A_n38A;DC	_13A_n7A;DC_5A_n41	1A;DC_66A_n41A	;DC_2A_n7A;
DC_7A_n2A;DC_3	0A_n77A;DC_41A_n77	7A;DC_7A_n78A;	
DC_71A_n41A;DC	_28A_n66A;DC_30A_r	n12A;DC_2A_n14	A;DC_30A_n14A;
	_2A_n30A;DC_5A_n30		
DC_14A_n30A;DC	_66A_n30A;DC_71A_r	n7A;DC_7A_n12A	;DC_5A_n77A;

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DC_66A_n77A;DC_71A_n77A;DC_4A_n2A;DC_7A_n25A;DC_71A_n25A;



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DC_5A_n25A;DC_26A_n25A;DC_4A_n7A;DC_13A_n25A;DC_7A_n77A;
DC_48A_n5A; DC_48A_n66A; DC_48A_n25A;DC_48A_n71A;DC_48A_n12A;

Note:
The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)	
	(A) Limits for Occup	oational/Controlled Expo	sures		
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f2)	6	
30-300	61.4	0.163	1.0	6	
300-1500	1	1	f/300	6	
1500-100,000	/	1	5	6	
(1	B) Limits for General P	opulation/Uncontrolled	Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f2)	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	1	f/1500	30	
1500-100,000	/	1	1.0	30	

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

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^{*=}Plane-wave equivalent power density



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Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA Band II	1852.4	3.87	NA	25.00	28.87	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
WCDMA Band IV	1712.4	3.91	NA	25.00	28.91	30.00	0.1548	1.0000	5.00	12.01	5.00	Pass
WCDMA Band V	826.4	3.32	NA	25.00	26.17	38.45	0.1351	0.5509	15.60	9.42	9.42	Pass
LTE Band 2/LTE CA_2C	1850.7	3.87	NA	25.00	28.87	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	3.91	NA	25.00	28.91	30.00	0.1548	1.0000	5.00	12.01	5.00	Pass
LTE Band 5/LTE CA_5B	824.7	3.32	NA	25.00	26.17	38.45	0.1351	0.5498	15.60	9.41	9.41	Pass
LTE Band 7/LTE CA_7C	2502.5	3.16	NA	25.00	28.16	33.00	0.1302	1.0000	8.00	12.01	8.00	Pass
LTE Band 12	699.7	3.19	NA	25.00	26.04	34.77	0.1311	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	3.28	NA	25.00	26.13	34.77	0.1339	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	3.25	NA	25.00	26.10	34.77	0.1330	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	3.19	NA	25.00	26.04	34.77	0.1311	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1850.7	3.87	NA	25.00	28.87	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
LTE Band 26(814-824)	814.7	3.32	NA	25.00	26.17	NA	0.1351	0.5431	NA	9.36	9.36	Pass
LTE Band 26(824-849)	824.7	3.32	NA	25.00	26.17	38.45	0.1351	0.5498	15.60	9.41	9.41	Pass
LTE Band 30	2307.5	0.98	NA	23.00	23.98	23.98	0.0497	1.0000	0.98	14.01	0.98	Pass
LTE Band 38/LTE CA_38C	2572.5	3.07	NA	25.00	28.07	33.00	0.1276	1.0000	8.00	12.01	8.00	Pass
LTE Band 41/LTE CA_41C	2498.5	3.16	NA	27.00	30.16	33.00	0.2064	1.0000	6.00	10.01	6.00	Pass
LTE Band 42(3450-3550) LTE CA_42C	3452.5	2.35	NA	22.00	24.35	30.00	0.0542	1.0000	8.00	15.01	8.00	Pass
LTE Band 43(3700-3800)LTE CA_43C	3702.5	1.94	NA	22.00	23.94	30.00	0.0493	1.0000	8.00	15.01	8.00	Pass
LTE Band 48/LTE CA_48C	3552.5	1.00	NA	22.00	23.00	23.00	0.0397	1.0000	1.00	15.01	1.00	Pass
LTE Band 66/LTE CA_66B/LTE CA_66C	1710.7	3.91	NA	25.00	28.91	30.00	0.1548	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	3.07	NA	25.00	25.92	34.77	0.1276	0.4437	11.92	8.48	8.48	Pass

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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
NR Band n2	1852.5	3.87	NA	25.00	25.00	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	3.32	NA	25.00	26.17	38.45	0.1351	0.5510	15.60	9.42	9.42	Pass
NR Band n7	2502.5	3.16	NA	25.00	25.00	33.00	0.1302	1.0000	8.00	12.01	8.00	Pass
NR Band n12	701.5	3.19	NA	25.00	26.04	34.77	0.1311	0.4677	11.92	8.71	8.71	Pass
NR Band n13	779.5	3.28	NA	25.00	26.13	34.77	0.1339	0.5197	11.92	9.16	9.16	Pass
NR Band n14	790.5	3.25	NA	25.00	26.10	34.77	0.1330	0.5270	11.92	9.23	9.23	Pass
NR Band n25	1852.5	3.87	NA	25.00	25.00	33.00	0.1534	1.0000	8.00	12.01	8.00	Pass
NR Band n26(814-824)	816.5	3.32	NA	25.00	26.17	NA	0.1351	0.5443	NA	9.37	9.37	Pass
NR Band n26(824-849)	826.5	3.32	NA	25.00	26.17	38.45	0.1351	0.5510	15.60	9.42	9.42	Pass
NR Band n30	2307.5	0.98	NA	23.00	23.98	23.98	0.0497	1.0000	0.98	14.01	0.98	Pass
NR Band n38	2575.0	3.07	NA	25.00	28.07	33.00	0.1276	1.0000	8.00	12.01	8.00	Pass
NR Band n38(MIMO)	2575.0	3.07	3.07	25.00	28.07	33.00	0.1276	1.0000	8.00	12.01	8.00	Pass
NR Band n41	2501.0	3.16	NA	27.50	30.66	33.00	0.2316	1.0000	5.50	9.51	5.50	Pass
NR Band n41(MIMO)	2501.0	3.16	3.16	27.50	30.66	33.00	0.2316	1.0000	5.50	9.51	5.50	Pass
NR Band n48	3555.0	1.00	NA	22.00	23.00	23.00	0.0397	1.0000	1.00	15.01	1.00	Pass
NR Band n48(MIMO)	3555.0	1.00	1.00	22.00	23.00	23.00	0.0397	1.0000	1.00	15.01	1.00	Pass
NR Band n66	1712.5	3.91	NA	25.00	28.91	30.00	0.1548	1.0000	5.00	12.01	5.00	Pass
NR Band n71	665.5	3.07	NA	25.00	25.92	34.77	0.1276	0.4437	11.92	8.48	8.48	Pass
NR Band n77 (3450-3550)	3455.0	2.35	NA	27.50	29.85	30.00	0.1922	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	2.35	2.35	27.50	29.85	30.00	0.1922	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)	3705.0	1.94	NA	27.50	29.44	30.00	0.1749	1.0000	2.50	9.51	2.50	Pass
NR Band n77 (3700-3980)(MIMO)	3705.0	1.94	1.94	27.50	29.44	30.00	0.1749	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)	3455.0	2.35	NA	27.50	29.85	30.00	0.1922	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	2.35	2.35	27.50	29.85	30.00	0.1922	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)	3705.0	1.94	NA	27.50	29.44	30.00	0.1749	1.0000	2.50	9.51	2.50	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	1.94	1.94	27.50	29.44	30.00	0.1749	1.0000	2.50	9.51	2.50	Pass
Bluetooth	2402.0	5.00	NA	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA
WLAN2.4GHz	2412.0	5.00	NA	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA
WLAN5GHz	5180.0	5.00	NA	23.00	28.00	NA	0.1255	1.0000	NA	NA	NA	NA

Note:

- 1. This MPE analysis is applicable to any collocated transmitters with transmit power for WLAN is less than or equal to 28dBm and for Bluetooth is less than or equal to 28dBm.
- 2.A maximum antenna gain of 5dBi for WLAN/BT has been assumed for all collocated antennas.

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$$\sum_{i=1}^{n} \frac{S_{E_{i}}(dutyfactor)}{MPE_{E_{i}}} < 1$$

Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is: NOTE The corresponding MEs must be expressed in terms of power density in the above summation Therefore, the worst-case(DC 12A n30A situation is 0.2810+0.4970=0.7780, which is less than "1", this confirmed that the device comply with MPE limit.

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3.1.4 Exposure calculations for multiple sources

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^{n} \frac{S_i}{MPE_i} \le 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration			
1	WWAN + WiFi 2.4G + WiFi 5G + Bluetooth			

No.	Mode	Power Density (mW/cm²)	MPE Limit (mW/cm ²)	Result Ratio	Total Ratio	Limit	Result
	NR Band n71*	0.1276	0.4437	0.2876			
1	Bluetooth	0.1255	1.0000	0.1255	0.6641	1.0000	Doos
'	WiFi 2.4G	0.1255	1.0000	0.1255	0.0041	1.0000	Pass
	WiFi 5G	0.1255	1.0000	0.1255			

Remark*: This WWAN Band was recalculated on worst Band.

Note: Considering the WWAN module collocation with the WLAN and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant.

---End of Report---

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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.

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