

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AX39NSG-200
Equipment : Gateway
Brand Name : Netskope
Model Name : NSG-200
Applicant : Netskope SASE Gateway LLC
2445 Augustine Dr 3rd floor, Santa Clara,
California United States, 95054
Manufacturer : Netskope SASE Gateway LLC
2445 Augustine Dr 3rd floor, Santa Clara,
California United States, 95054
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

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Approved by: Cona Huang / Deputy Manager



SPORTON INTERNATIONAL INC. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA453102	Rev. 01	Initial issue of report	Oct. 02, 2025

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Gateway
Brand Name	Netskope
Model Name	NSG-200
FCC ID	2AX39NSG-200
Wireless Technology and Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz, 3700 MHz ~ 3800 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 70 : 1695 MHz ~ 1710 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz
Mode	LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160
EUT Stage	Production Unit

Reviewed by: **Jason Wang**Report Producer: **Carlie Tsai**

2. Maximum RF average output power among production units

<WWAN>

Mode		Maximum Average power(dBm)
LTE	Band 2	25.0
	Band 4	25.0
	Band 5	25.0
	Band 7	25.0
	Band 12	25.0
	Band 13	25.0
	Band 14	25.0
	Band 17	25.0
	Band 25	25.0
	Band 26	25.0
	Band 30	24.0
	Band 38	28.0
	Band 41	28.0
	Band 42	19.5
	Band 42_part 96	19.5
	Band 43	18.75
	Band 43_part 96	18.75
	Band 48	18.75
	Band 66	25.0
	Band 70	25.0
	Band 71	25.0
5G NR	n2	25.0
	n5	25.0
	n7	25.0
	n12	25.0
	n13	25.0
	n14	25.0
	n25	25.0
	n26	25.0
	n30	24.0
	n38	28.0
	n41	28.0
	n66	25.0
	n70	25.0
	n71	25.0
	n77 (3450 ~3550 MHz)	28.0
	n77 (3700 ~3980 MHz)	28.0
	n78 (3450 ~3550 MHz)	28.0
	n78 (3700 ~3800 MHz)	28.0

<WLAN>

Mode		Tune-up (dBm)
WLAN	2.4GHz	20.95
	5.2GHz	20.89
	5.8GHz	20.95

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Collocated Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
LTE Band 2	1.65	25.00	26.7	462.38	0.092	1.000	0.092
LTE Band 4	2.65	25.00	27.7	582.10	0.116	1.000	0.116
LTE Band 5	3.34	25.00	28.3	682.34	0.136	0.549	0.247
LTE Band 7	4.21	25.00	29.2	833.68	0.166	1.000	0.166
LTE Band 12	2.80	25.00	27.8	602.56	0.120	0.466	0.257
LTE Band 13	3.37	25.00	28.4	687.07	0.137	0.518	0.264
LTE Band 14	3.37	25.00	28.4	687.07	0.137	0.525	0.260
LTE Band 17	2.80	25.00	27.8	602.56	0.120	0.469	0.256
LTE Band 25	1.65	25.00	26.7	462.38	0.092	1.000	0.092
LTE Band 26	3.34	25.00	28.3	682.34	0.136	0.543	0.250
LTE Band 30	-0.23	24.00	23.8	238.23	0.047	1.000	0.047
LTE Band 38	3.79	28.00	31.8	1510.08	0.301	1.000	0.301
LTE Band 41	4.21	28.00	32.2	1663.41	0.331	1.000	0.331
LTE Band 42	0.98	19.50	20.5	111.69	0.022	1.000	0.022
LTE Band 42_part 96	0.41	19.50	19.9	97.95	0.019	1.000	0.019
LTE Band 43	1.02	18.75	19.8	94.84	0.019	1.000	0.019
LTE Band 43_part 96	1.02	18.75	19.8	94.84	0.019	1.000	0.019
LTE Band 48	1.02	18.75	19.8	94.84	0.019	1.000	0.019
LTE Band 66	2.65	25.00	27.7	582.10	0.116	1.000	0.116
LTE Band 70	2.65	25.00	27.7	582.10	0.116	1.000	0.116
LTE Band 71	2.71	25.00	27.7	590.20	0.117	0.442	0.266
NR Band 2	1.65	25.00	26.7	462.38	0.092	1.000	0.092
NR Band 5	3.34	25.00	28.3	682.34	0.136	0.549	0.247
NR Band 7	4.21	25.00	29.2	833.68	0.166	1.000	0.166
NR Band 12	2.80	25.00	27.8	602.56	0.120	0.466	0.257
NR Band 13	3.37	25.00	28.4	687.07	0.137	0.518	0.264
NR Band 14	3.37	25.00	28.4	687.07	0.137	0.525	0.260
NR Band 25	1.65	25.00	26.7	462.38	0.092	1.000	0.092
NR Band 26	3.34	25.00	28.3	682.34	0.136	0.543	0.250
NR Band 30	-0.23	24.00	23.8	238.23	0.047	1.000	0.047
NR Band 38	3.79	28.00	31.8	1510.08	0.301	1.000	0.301
NR Band 41	4.21	28.00	32.2	1663.41	0.331	1.000	0.331
NR Band 66	2.65	25.00	27.7	582.10	0.116	1.000	0.116
NR Band 70	2.65	25.00	27.7	582.10	0.116	1.000	0.116
NR Band 71	2.71	25.00	27.7	590.20	0.117	0.442	0.266
NR Band 77 (3450 ~3550 MHz)	0.98	28.00	29.0	790.68	0.157	1.000	0.157
NR Band 77 (3700 ~3980 MHz)	1.83	28.00	29.8	961.61	0.191	1.000	0.191
NR Band 78 (3450 ~3550 MHz)	0.98	28.00	29.0	790.68	0.157	1.000	0.157
NR Band 78 (3700 ~3800 MHz)	1.02	28.00	29.0	797.99	0.159	1.000	0.159
2.4GHz WLAN	4.34	20.95	25.3	338.06	0.067	1.000	0.067
5.2GHz WLAN	4.46	20.89	25.4	342.77	0.068	1.000	0.068
5.8GHz WLAN	4.86	20.95	25.8	381.07	0.076	1.000	0.076



WWAN Power Density / Limit	WLAN Power Density / Limit	Σ (Power Density / Limit) of WWAN + WLAN
0.331	0.076	0.407

1. The device implanted DPS (Dynamic Power Share) function to achieve higher uplink data rate keeping the total power unchanged in 5G NR NSA EN-DC mode according to 3GPP 38.213, when the equipment has a dynamic power sharing capability, it adjusts the LTE or NR transmission power so that the instantaneous total power does not exceed the specified value, when the maximum transmission power of NR (P_{LTE}, P_{NR}) and the specified total power (P_{total}) have been set and the instantaneous calculated total transmission power exceeds P_{total}, the NR transmission power is reduced so that the actual transmission power of the user equipment will not exceed P_{total} power.
2. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN.
3. Considering the WWAN collocation with the WLAN transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.