RF Exposure Evaluation Report

APPLICANT	:	Meta Platforms Technologies, LLC
EQUIPMENT	:	SMART GLASSES
MODEL NAME	:	JN3
FCC ID	:	2AGOZ-JN3
STANDARD	:	47 CFR Part 2.1091 FCC KDB 447498 D01 v06

The product evaluation date was started from Jun. 03, 2025 and completed on Jun. 03, 2025. We, Sporton International Inc. (Shenzhen), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Hank Huang

Approved by: Hank Huang

Sporton International Inc. (Shenzhen)
1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA522809B	Rev. 01	Initial issue of report.	Jun. 04, 2025

1. Administration Data

1.1. Testing Laboratory

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	Meta Platforms Technologies, LLC
Address	1 Hacker Way, Menlo Park, CA 94025, USA

Manufacturer	
Company Name	Meta Platforms Technologies, LLC
Address	1 Hacker Way, Menlo Park, CA 94025, USA

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	SMART GLASSES
Model Name	JN3
FCC ID	2AGOZ-JN3
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ac/ax VHT20/HE20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
Antenna Gain	WLAN2.4GHz/Bluetooth: 0.33 dBi WLAN5.2GHz: 3.52 dBi WLAN5.3GHz: 3.55 dBi WLAN5.5GHz: 4.11 dBi WLAN5.8GHz: 3.60 dBi
Antenna Type	WLAN/Bluetooth: Monopole PCB Antenna
HW Version	EVT2
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Comments and Explanations:
1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

3. Maximum RF average output tune up power among production units

<2.4GHz WLAN >

Mode		Maximum Average Power (dBm)
2.4GHz	802.11b	18.00
	802.11g	18.00
	802.11n-HT20	18.00
	802.11ac VHT20	18.00
	802.11ax-HE20	18.00

<Bluetooth>

Mode		Maximum Average power(dBm)
Bluetooth	BR/EDR	10.00
	LE	9.25

<5GHz WLAN >

Mode		Maximum Average Power (dBm)
5.2GHz	802.11a	17.25
	802.11n-HT20	17.25
	802.11n-HT40	17.25
	802.11ac-VHT20	17.25
	802.11ac-VHT40	17.25
	802.11ac-VHT80	17.25
	802.11ax-HE20	17.25
	802.11ax-HE40	17.25
	802.11ax-HE80	17.25
5.3GHz	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	18.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	18.00
	802.11ac-VHT80	18.00
	802.11ac-VHT160	18.00
	802.11ax-HE20	18.00
	802.11ax-HE40	18.00
	802.11ax-HE80	18.00
	802.11ax-HE160	18.00
5.5GHz	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	18.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	18.00
	802.11ac-VHT80	18.00
	802.11ac-VHT160	16.00
	802.11ax-HE20	18.00
	802.11ax-HE40	18.00

	802.11ax-HE80	18.00
	802.11ax-HE160	16.00
5.8GHz	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	18.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	18.00
	802.11ac-VHT80	18.00
	802.11ax-HE20	18.00
	802.11ax-HE40	18.00
	802.11ax-HE80	18.00

4. 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/f2)	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/f2)	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

5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
Bluetooth	2402	0.33	10.00	10.330	10.789	0.002	1.000	**0.002**
WLAN2.4GHz	2412	0.33	18.00	18.330	68.077	0.014	1.000	0.014
WLAN5.2GHz	5180	3.52	17.25	20.770	119.399	0.024	1.000	0.024
WLAN5.3GHz	5260	3.55	18.00	21.550	142.889	0.028	1.000	0.028
WLAN5.5GHz	5500	4.11	18.00	22.110	162.555	0.032	1.000	**0.032**
WLAN5.8GHz	5745	3.60	18.00	21.600	144.544	0.029	1.000	0.029

Note:
1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.

5.2. Collocated Power Density Calculation

Maximum Bluetooth Power Density / Limit	Maximum WLAN5GHz Power Density / Limit	Σ(Power Density / Limit) of Bluetooth + WLAN5GHz
0.002	0.032	0.034

Note:
1. According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
2. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
3. Σ(Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for Bluetooth + WLAN.
4. Considering all 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 equipment at least 20 cm to show compliance with the power density limit, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

------THE END------