



RADIO EXPOSURE TEST REPORT

FCC ID : UXX-S5A509A
Equipment : E400-5GE-AM, X20-5GE-AM
Brand Name : Ericsson
Model Name : S5A509A
Applicant : Ericsson Enterprise Wireless Solutions, Inc.
1100 W. Idaho St. Boise, ID 83702
Manufacturer : Ericsson Enterprise Wireless Solutions, Inc.
1100 W. Idaho St. Boise, ID 83702
Standard : 47 CFR Part 2.1091

The product was received on Oct. 14, 2024, and testing was started from Oct. 15, 2024 and completed on Jan. 02, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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Photographs of EUT v01



History of this test report

[illegible]



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The presented declaration output power of WWAN for EUT in the report are provided by the manufacturer, and We, Sporton International Inc. Hsinchu Laboratory does not guarantee its accuracy.

Reviewed by: Sam Chen**Report Producer: Muse Chan**



1 General Description

1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5250 5250-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)



1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support Function	Gain (dBi)
1	WNC	57XPAG15.001	PIFA Antenna	I-PEX	WLAN 2.4GHz+5GHz	Note 1
2	WNC	57XPAG15.002	PIFA Antenna	I-PEX	WLAN 2.4GHz+5GHz	
3	WNC	3S.007DN.111	PIFA Antenna	N/A	WLAN 6GHz	
4	WNC	3S.007DN.111	PIFA Antenna	N/A	WLAN 6GHz	
5	WNC	81XPAG15.G17	Dipole Antenna	SMA	WWAN	
6	WNC	81XPAG15.G17	Dipole Antenna	SMA	WWAN	
7	WNC	81XPAG15.G17	Dipole Antenna	SMA	WWAN	
8	WNC	81XPAG15.G17	Dipole Antenna	SMA	WWAN	
9	WNC	3S.007DK.111	PIFA Antenna	N/A	WWAN	
10	WNC	3S.007DL.111	PIFA Antenna	N/A	WWAN	
11	WNC	3S.007DM.111	PIFA Antenna	N/A	WWAN	
12	WNC	3S.007DM.111	PIFA Antenna	N/A	WWAN	
13	WNC	81XPAG15.G03	PIFA Antenna	I-PEX	GPS	

Note 1:

Ant.	Port		Antenna Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz			
				UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	1	3.5	5.9	6.0	7.1	5.5
2	2	2	5.6	7.4	7.4	7.0	7.0

Ant.	Port		Antenna Gain (dBi)			
	WLAN 6GHz		WLAN 6GHz			
			UNII 5	UNII 6	UNII 7	UNII 8
3	2		5.9	5.5	6.6	6.6
4	1		8.3	8.1	8.2	7.7



Ant.	WWAN Antenna Gain (dBi)									
	LTE									
	Band 2	Band 4	Band 5	Band 7	Band 12	Band 13	Band 14	Band 17	Band 25	Band 26 (814-824MHz)
5	2.63	3.14	3.22	-	3.17	3.06	3.16	3.17	2.63	3.22
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	2.9	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
Ant.	LTE									
	Band 26 (824-849MHz)	Band 30	Band 38	Band 41	Band 42	Band 43	Band 48	Band 66	Band 71	
5	3.22	-	-	-	3.48	3.12	3.24	3.14	2.94	
6	-	-	-	-	-	-	-	-	-	
7	-	-	-	-	-	-	-	-	-	
8	-	2.89	2.9	3.1	-	-	-	-	-	
9	-	-	-	-	-	-	-	-	-	
10	-	-	-	-	-	-	-	-	-	
11	-	-	-	-	-	-	-	-	-	
12	-	-	-	-	-	-	-	-	-	



Ant.	WWAN Antenna Gain (dBi)							
	5G NR							
	Band 2	Band 5	Band 7	Band 12	Band 13	Band 14	Band 25	Band 26 (814-824MHz)
5	2.63	3.22	2.9	3.17	3.06	3.16	2.63	3.22
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-
8	2.63	3.22	2.9	-	-	-	2.63	-
9	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
Ant.	5G NR							
	Band 26 (824-849MHz)	Band 30	Band 38	Band 41	Band 48	Band 66	Band 70	Band 71
5	3.22	-	2.9	3.1	3.24	3.14	3.14	2.94
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-
8	-	2.89	2.9	3.1	3.24	3.14	3.14	2.94
9	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
Ant.	5G NR				5G NR			
	Band 77 (3450-3550MHz)		Band 77 (3700-3980MHz)		Band 78 (3450-3550MHz)		Band 78 (3700-3800MHz)	
5	3.48		3.45		3.48		3.12	
6	-		-		-		-	
7	-		-		-		-	
8	3.48		3.45		3.48		3.12	
9	-		-		-		-	
10	-		-		-		-	
11	-		-		-		-	
12	-		-		-		-	

Ant.	GPS Antenna Gain (dBi)
13	3.5

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{dir}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{dir}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{dir}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{dir}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

2.4G G1= 3.5 dBi ;G2= 5.6 dBi ;

5G UNII-1 G1 = 5.9 dBi; G2 = 7.4 dBi;

5G UNII-2A G1 = 6.0 dBi; G2 = 7.4 dBi;

5G UNII-2C G1 = 7.1 dBi; G2 = 7.0 dBi;

5G UNII-3 G1 = 5.5 dBi; G2 = 7.0 dBi;

6G UNII-5 G1 = 5.9 dBi; G2 = 8.3 dBi;

6G UNII-6 G1 = 5.5 dBi; G2 = 8.1 dBi;

6G UNII-7 G1 = 6.6 dBi; G2 = 8.2 dBi;

6G UNII-8 G1 = 6.6 dBi; G2 = 7.7 dBi;

2.4G DG = 7.62 dBi

5G UNII-1 DG = 9.69 dBi

5G UNII-2A DG = 9.74 dBi

5G UNII-2C DG = 10.06 dBi

5G UNII-3 DG = 9.29 dBi

6G UNII-5 DG = 10.19 dBi

6G UNII-6 DG = 9.91 dBi

6G UNII-7 DG = 10.45 dBi

6G UNII-8 DG = 10.18 dBi



Note 4: **For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.3 Table for EUT Support Function

Function	Support Type	Supports Band
AP Router	Master	WLAN 2.4GHz, WLAN 5GHz UNII 1~3, WLAN 6GHz UNII 5~8
Slave	Slave with radar detection	WLAN 2.4GHz, WLAN 5GHz UNII 1~3

Note: The above information was declared by manufacturer.

1.4 Table for Multiple Listing

The equipment names in the following table are all refer to the identical product.

Equipment Name	Model Name	Description
E400-5GE-AM	S5A509A	The only difference between X20-5GE-AM and E400-5GE-AM firmware versions are the subscription packages they support. These subscription packages are used to license advanced software features for different market segments. The features that are licensed in the subscription packages are primarily advanced networking features (IPSec, BGP, RIP, STP) and remote diagnostic tools.
X20-5GE-AM		

Note 1: From the above equipment names, equipment name: E400-5GE-AM was selected as representative equipment name for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.5 Table for WWAN Module Information

The EUT contains a WWAN module.

The WWAN module information is listed below:

Brand Name	Model Name	FCC ID	Support Function
Ericsson	RG650V-NA	UXX-2024 RG650VNA	LTE band: 2, 4, 5, 7, 12, 13, 14, 17, 25, 26(814-824), 26(824-849), 30, 38, 41(2496~2690), 42, 43(3700~3800), 48, 66, 71 LTE intra band: CA_2C, CA_5B, CA_38C, CA_41C, CA_42C, CA_43C, CA_48B, CA_48C, CA_66B, CA_66C, CA_7C, CA_12B 5G NR SA Band: n2, n5, n7, n12, n13, n14, n25, n26(814-824), n26(824-849), n30, n38, n41, n48, n66, n70, n71, n77(3450-3550), n77(3700-3980), n78(3450-3550), n78(3700-3800) 5G EN-DC Band: DC_13A_n66A; DC_5A_n2A; DC_14A_n2A; DC_30A_n2A; DC_2A_n5A; DC_12A_n5A; DC_30A_n5A; DC_66A_n5A; DC_2A_n12A; DC_30A_n12A; DC_66A_n12A; DC_2A_n14A; DC_30A_n14A; DC_66A_n14A; DC_2A_n30A; DC_5A_n30A; DC_12A_n30A; DC_14A_n30A; DC_66A_n30A; DC_2A_n66A; DC_5A_n66A; DC_12A_n66A; DC_14A_n66A; DC_30A_n66A; DC_12A_n2A; DC_71A_n2A; DC_71A_n66A; DC_2A_n71A; DC_66A_n71A; DC_66A_n25A; DC_66A_n41A; DC_26A_n41A; DC_7A_n78A; DC_38A_n78A; DC_5A_n78A; DC_7A_n5A; DC_66A_n78A; DC_2A_n78A; DC_5A_n71A; DC_7A_n71A; DC_12A_n71A; DC_12A_n78A; DC_13A_n71A; DC_5A_n7A; DC_12A_n7A; DC_66A_n7A; DC_5A_n41A; DC_71A_n7A; DC_7A_n12A; DC_13A_n2A; DC_48A_n5A; DC_48A_n66A; DC_7A_n66A; DC_13A_n78A; DC_41A_n77A; DC_41A_n78A; DC_4A_n41A; DC_66A_n38A; DC_2A_n38A; DC_12A_n38A; DC_4A_n38A; DC_5A_n38A; DC_4A_n78A; DC_12A_n25A; DC_7A_n77A; DC_71A_n78A; DC_71A_n38A; DC_13A_n7A; DC_12A_n41A; DC_2A_n7A; DC_7A_n2A; DC_2A_n77A; DC_5A_n77A; DC_13A_n77A; DC_66A_n77A; DC_12A_n77A; DC_14A_n77A; DC_30A_n77A; DC_26A_n78A; DC_71A_n41A; DC_4A_n2A; DC_7A_n25A; DC_7A_n25A; DC_5A_n25A; DC_5A_n25A; DC_5A_n12A; DC_71A_n12A; DC_4A_n7A; DC_4A_n7A; DC_25A_n78A; DC_25A_n77A; DC_48A_n71A; DC_48A_n12A; DC_71A_n77A; DC_48A_n2A; DC_14A_n5A; DC_71A_n5A; DC_7A_n26A 5G CA Band: n25A-n41A; n41A-n71A; n66A-n78A; n7A-n77A; n2A-n77A; n5A-n77A; n66A-n77A; n30A-n77A; n30A-n77A; n30A-n77A; n5A-n48A; n71A-n77A; n12A-n77A; n14A-n77A; n71A-n78A; n2A-n78A; n25A-n78A; n38A-n66A; n25A-n48A; n25A-n77A; n25A-n38A; n2A-n41A; n12A-n41A; n12A-n78A; n13A-n77A; n5A-n41A; n12A-n48A; n70A-n78A; n41A-n70A; n26A-n78A; n26A-n77A

Note: The above information was declared by manufacturer.



1.6 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WA-36W12R	INPUT: 100-240V~, 50-60Hz, 0.9A Max OUTPUT: 12.0V, 3.0A, 36.0W
Rechargeable Li-ion Battery	Getac	170921-000	Rated voltage: 7.26V Rated capacity: 7800mAh(56.62Wh) Input: 12V, 1A
Others			
RJ-45 cable*1: Non-shielded, 1.5m			
US plug*1			

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310



1.8 Testing Location

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.



2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 55 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= P_{th}.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance

R between the person and the antenna / radiating structure, where $R > \lambda / 2 \pi$.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R is in meters, f is in MHz.	



2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	7.62	25.07	30.54	0.50	1270.574	55	C	5808.000	0.2188
5.2G;D1D	9.69	24.56	32.1	0.50	1819.701	55	C	5808.000	0.3133
5.3G;D1D	9.74	20.16	27.75	0.09	608.135	55	C	5808.000	0.1047
5.6G;D1D	10.06	19.84	27.75	0.09	608.135	55	C	5808.000	0.1047
5.8G;D1D	9.29	24.94	32.08	0.50	1811.340	55	C	5808.000	0.3119
6.2G;D1D	10.19	19.79	27.83	0.01	608.135	55	C	5808.000	0.1047
6.4G;D1D	9.91	19.80	27.56	0.28	608.135	55	C	5808.000	0.1047
6.7G;D1D	10.45	18.92	27.22	0.50	591.562	55	C	5808.000	0.1019
7.0G;D1D	10.18	17.07	25.1	0.50	363.078	55	C	5808.000	0.0625
LTE Band 2	2.63	25	25.48	0.50	396.278	55	C	5808.000	0.0682
LTE Band 4	3.14	25	25.99	0.50	445.656	55	C	5808.000	0.0767
LTE Band 5	3.22	25	26.07	0.50	453.942	55	C	3190.528	0.1423
LTE Band 7	2.90	25	25.75	0.50	421.697	55	C	5808.000	0.0726
LTE Band 12	3.17	25	26.02	0.50	448.745	55	C	2822.688	0.1590
LTE Band 13	3.06	25	25.91	0.50	437.522	55	C	2888.512	0.1515
LTE Band 14	3.16	25	26.01	0.50	447.713	55	C	2934.976	0.1525
LTE Band 17	3.17	25	26.02	0.50	448.745	55	C	2842.048	0.1579
LTE Band 25	2.63	25	25.48	0.50	396.278	55	C	5808.000	0.0682
LTE Band 26	3.22	25	26.07	0.50	453.942	55	C	3326.048	0.1365
LTE Band 30	2.89	20	20.74	0.50	133.045	55	C	5808.000	0.0229
LTE Band 38	2.90	28	28.75	0.50	841.395	55	C	5808.000	0.1449
LTE Band 41	3.10	28	28.95	0.50	881.049	55	C	5808.000	0.1517
LTE Band 42	3.48	26	27.33	0.50	606.736	55	C	5808.000	0.1045
LTE Band 43	3.12	26	26.97	0.50	558.470	55	C	5808.000	0.0962
LTE Band 48	3.24	19	20.09	0.50	114.551	55	C	5808.000	0.0197
LTE Band 66	3.14	25	25.99	0.50	445.656	55	C	5808.000	0.0767
LTE Band 71	2.94	25	25.79	0.50	425.598	55	C	2389.024	0.1781
5G NR n2	2.63	28	28.48	0.50	790.679	55	C	5808.000	0.1361
5G NR n5	3.22	28	29.07	0.50	905.733	55	C	3364.768	0.2692
5G NR n7	2.90	28	28.75	0.50	841.395	55	C	5808.000	0.1449

**RADIO EXPOSURE TEST REPORT**

Report No. : FA4O0105-02

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5G NR n12	3.17	25	26.02	0.50	448.745	55	C	2822.688	0.1590
5G NR n13	3.06	25	25.91	0.50	437.522	55	C	2888.512	0.1515
5G NR n14	3.16	25	26.01	0.50	447.713	55	C	2934.976	0.1525
5G NR n25	2.63	28	28.48	0.50	790.679	55	C	5808.000	0.1361
5G NR n26	3.22	25	26.07	0.50	453.942	55	C	3364.768	0.1349
5G NR n30	2.89	20	20.74	0.50	133.045	55	C	5808.000	0.0229
5G NR n38	2.90	28	28.75	0.50	841.395	55	C	5808.000	0.1449
5G NR n41	3.10	28	28.95	0.50	881.049	55	C	5808.000	0.1517
5G NR n48	3.24	19	20.09	0.50	114.551	55	C	5808.000	0.0197
5G NR n66	3.14	25	25.99	0.50	445.656	55	C	5808.000	0.0767
5G NR n70	3.14	25	25.99	0.50	445.656	55	C	5808.000	0.0767
5G NR n71	2.94	28	28.79	0.50	849.180	55	C	2389.024	0.3555
5G NR n77	3.48	26	27.33	0.50	606.736	55	C	5808.000	0.1045
5G NR n78	3.48	26	27.33	0.50	606.736	55	C	5808.000	0.1045

**Simultaneous Transmission Analysis****Mode 1: WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + WWAN: 4G**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	7.62	25.07	30.54	0.50	1270.574	55	C	5808.000	0.2188
5.2G;D1D	9.69	24.56	32.10	0.50	1819.701	55	C	5808.000	0.3133
6.2G;D1D	10.19	19.79	27.83	0.01	608.135	55	C	5808.000	0.1047
LTE Band 71	2.94	25.00	25.79	0.50	425.598	55	C	2389.024	0.1781
Sum TL Ratio_C	0.8149								
Ratio Limit	1								

Mode 2: WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + WWAN: 5G

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	7.62	25.07	30.54	0.50	1270.574	55	C	5808.000	0.2188
5.2G;D1D	9.69	24.56	32.10	0.50	1819.701	55	C	5808.000	0.3133
6.2G;D1D	10.19	19.79	27.83	0.01	608.135	55	C	5808.000	0.1047
5G NR n71	2.94	28.00	28.79	0.50	849.18	55	C	2389.024	0.3555
Sum TL Ratio_C	0.9922								
Ratio Limit	1								

Note: The above antenna gain was declared by manufacturer.

—————THE END—————