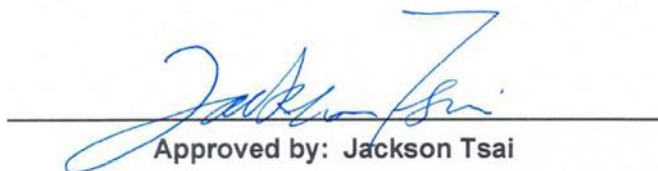


Radio Exposure Evaluation Report

FCC ID : 2BUT5LEG4IT
Contains FCC ID : J9C-QCNFA765, RI7FN920C04WW
Equipment : Liebherr Edge Gateway
Brand Name : LIEBHERR
Model Name : LEG4IT
Applicant : Liebherr-Electronics and Drives GmbH
Peter-Dornier-Str. 11
88131 Lindau
Germany
Manufacturer : Liebherr-Electronics and Drives GmbH
Peter-Dornier-Str. 11
88131 Lindau
Germany
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Dec. 10, 2025, and testing was started from Dec. 18, 2025 and completed on Dec. 23, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR FCC Part 2 Subpart J, section 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Applicable Standards	11
1.3 Testing Location	11
2 MAXIMUM PERMISSIBLE EXPOSURE	12
2.1 Limit of Maximum Permissible Exposure	12
2.2 RF Exposure Exempt Measurement	13
2.3 Multiple RF Sources Exposure.....	14
2.4 MPE Calculation Method	15
2.5 Calculated Result and Limit.....	16

Photographs of EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FA5D0421	01	Initial issue of report	Sep. 22, 2026

Summary of Test Result

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Ben Tseng
Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 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) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850 5850-5895	5180-5240 5260-5320 5500-5720 5745-5825 5845-5885	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)
6GHz WLAN	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK) LE: DSSS (GFSK)
NFC	13.56	13.553 – 13.567	ASK

**WWAN**

Evaluation Mode	Operating Band	Freq. (MHz)	Modulation Type
LTE	LTE Band 2	1850 - 1910	QPSK, 16QAM, 64QAM, 256QAM
	LTE Band 4	1710 - 1755	
	LTE Band 5	824 - 849	
	LTE Band 7	2500 - 2570	
	LTE Band 12	699 - 716	
	LTE Band 13	777 - 787	
	LTE Band 14	788 - 798	
	LTE Band 17	704 - 716	
	LTE Band 25	1850 - 1915	
	LTE Band 26	814 - 849	
	LTE Band 30	2305 - 2315	
	LTE Band 38	2570 - 2620	
	LTE Band 41	2496 - 2690	
	LTE Band 42	3450 - 3550 3550 - 3600	
	LTE Band 43	3600 - 3700	
	LTE Band 48	3550 - 3700	
	LTE Band 66	1710 - 1780	
	LTE Band 70	1710 - 1780	
	LTE Band 71	663 - 698	
	LTE Band 106	901	

Evaluation Mode	Operating Band	Freq. (MHz)	Modulation Type
5G NR	5G Band n2	1850 - 1910	DFT-s PI/2 BPSK, DFT-s QPSK, DFT-s QAM, CP QPSK, CP QAM
	5G Band n5	824- 849	
	5G Band n7	2500 - 2570	
	5G Band n12	699 - 716	
	5G Band n13	777 - 787	
	5G Band n14	788 - 798	
	5G Band n25	1850 - 1915	
	5G Band n26	814 - 849	
	5G Band n30	2305 - 2315	
	5G Band n38	2570 - 2620	
	5G Band n41	2496 - 2690	
	5G Band n48	3550 - 3700	
	5G Band n53	2495	
	5G Band n66	1710 - 1780	
	5G Band n70	1710	
	5G Band n71	663 - 698	
	5G Band n77	3450 - 3980	
	5G Band n78	3450 - 3800	

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	INPAQ	GPSLX5GWIFI09S22W-B6-01-A	PIFA	MINI FAKRA	WWAN
2	INPAQ	GPSLX5GWIFI09S22W-B6-01-A	WLAN BT: PIFA GPS: PATCH	MINI FAKRA	2.4G/5G/6G/ BT/GPS
3	INPAQ	NF-C-F9-R0-02-017-A	Loop	SMA	NFC

Ant.	Port	Gain (dBi)											BT	GPS
		2.4G	5G					6G						
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-4	UNII-5	UNII-6	UNII-7	UNII-8			
1	1	-	-	-	-	-	-	-	-	-	-	-	-	
2	1	2.38	1.02	1.02	1.63	1.88	1.85	2.31	1.67	2.28	1.74	2.38	-	
2	2	2.58	1.03	1.03	1.64	1.88	1.85	1.85	1.78	2.62	1.8	-	-	
2	3	-	-	-	-	-	-	-	-	-	-	-	1.65	

Note 1: The EUT has three antennas.

For 2.4GHz function:

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

Ant. 2 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 2 (port 1) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 2 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**Note 2**

Operating Band	Freq. (MHz)	Antenna Gain
☒ LTE Band 2	1850 - 1910	2.18
☒ LTE Band 4	1710 - 1755	2.62
☒ LTE Band 5	824 - 849	0.22
☒ LTE Band 7	2500 - 2570	0.52
☒ LTE Band 12	699 - 716	1.74
☒ LTE Band 13	777 - 787	1.73
☒ LTE Band 14	788 - 798	0.75
☒ LTE Band 17	704 - 716	1.42
☒ LTE Band 25	1850 - 1915	2.18
☒ LTE Band 26	814 - 849	0.22
☒ LTE Band 26 Part 90	814.7	1.02
☒ LTE Band 30	2305 - 2315	0.38
☒ LTE Band 38	2570 - 2620	0.04
☒ LTE Band 41	2496 - 2690	0.73
☒ LTE Band 41(HPUE)	2498.5	0.73
☒ LTE Band 42	3450 - 3550	1.81
☒ LTE Band 42	3550 - 3600	1.72
☒ LTE Band 43	3600 - 3700	2.61
☒ LTE Band 43	3600 - 3700	0.72
☒ LTE Band 48	3550 - 3700	1.64
☒ LTE Band 66	1710 - 1780	2.62
☒ LTE Band 70	1710 - 1780	2.62
☒ LTE Band 71	663 - 698	0.76
☒ LTE Band 106	901	-0.02
☒ 5G Band n2	1850 - 1910	2.18
☒ 5G Band n5	824- 849	0.22
☒ 5G Band n7	2500 - 2570	0.52
☒ 5G Band n12	699 - 716	1.74
☒ 5G Band n13	777 - 787	1.73
☒ 5G Band n14	788 - 798	0.75
☒ 5G Band n25	1850 - 1915	2.18



☒ 5G Band n26	814 - 849	0.22
☒ 5G Band n26 Part 90	814.7	1.02
☒ 5G Band n30	2305 - 2315	0.38
☒ 5G Band n38	2570 - 2620	0.04
☒ 5G Band n41_PC3	2496 - 2690	0.73
☒ 5G Band n48	3550 - 3700	1.64
☒ 5G Band n53	2495	0.63
☒ 5G Band n66	1710 - 1780	2.62
☒ 5G Band n70	1710	2.62
☒ 5G Band n71	663 - 698	0.76
☒ 5G Band n77_PC3	3450 - 3980	0.89
☒ 5G Band n78_PC3	3450 - 3800	0.72

1.1.3 Accessories

Accessories				
5-IN-1 Combo Antenna	Brand Name	INPAQ	Model Name	GPSLX5GWIFI09S22W-B6-01-A
NFC Antenna	Brand Name	INPAQ	Model Name	NF-C-F9-R0-02-017-A
AC Adapter (optional)	Brand Name	MOSO	Model Name	MSS-Z5000WR240-120C0-P
AC PWR CORD(US Plug) (optional)	Brand Name	WELLSHIN	Model Name	K086-0245
AC PWR CORD(EU Plug) (optional)	Brand Name	WELLSHIN	Model Name	K086-0244
CAN BUS CABLE (optional)	Brand Name	TUNG-LI	Model Name	TL211-014
ETHERNET CABLE (optional)	Brand Name	TUNG-LI	Model Name	TL211-013
HDMI CABLE (optional)	Brand Name	TUNG-LI	Model Name	HD001-023
USB-C CABLE (optional)	Brand Name	TUNG-LI	Model Name	UB122-001

Reminder: Regarding to more detail and other information, please refer to user manual.

1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 2 Subpart J, section 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

1.3 Testing Location

Test Lab. : Sporton International Inc. Hsinhua Laboratory			
☒	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
		TEL: 886-3-327-3456	FAX: 886-3-327-0973
Test site Designation No. TW3785 with FCC.			
☐	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
		TEL: 886-3-318-0787	FAX: 886-3-318-0287
Test site Designation No. TW0008 with FCC.			

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

Multiple Transmitters Condition

Co-location as simultaneously transmitting (co-transmitting) and the evaluation shall be consider that simultaneous transmissions from co-located devices the individual transmitters are evaluated separately. After sum of the individual value (basic restriction / reference level) are measured/calculated also have to under basic restriction / reference level.

Co-transmitting mode:

Mode 1: 2.4GHz+6GHz WLAN+WWAN+NFC

Mode 2: 2.4GHz WLAN+5GHz WLAN+WWAN+NFC

Mode 3: 6GHz WLAN+Bluetooth+WWAN+NFC

Mode 4: 5GHz WLAN+Bluetooth+WWAN+NFC

2.2 RF Exposure Exempt Measurement

Option	Refer Std.	Exemption Exposure Thresholds (TL)
A	§1.1307(b)(3)(i)(A)	Available maximum time-averaged power is no more than 1 mW
B	§1.1307(b)(3)(i)(B)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040f(mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ $f \text{ is in MHz; } R \text{ is in m; } R > \lambda / 2\pi$

2.3 Multiple RF Sources Exposure

Refer Std.	Exemption Exposure Thresholds (TL)
§1.1307(b)(3)(ii)(A)	The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required)
§1.1307(b)(3)(ii)(B)	$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k} \leq 1$ a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters. P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive). P_{th,i} = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i. ERP_j = the ERP of fixed, mobile, or portable RF source j. ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section. Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Evaluated Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.



2.4 MPE Calculation Method

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:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

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

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



2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

WiFi 2.4G Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	3.25	24.50	25.60	0.50	407.380	20	B	3060.0	0.1332

WiFi 5G Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.6G;D1D	1.05	22.50	21.40	0.50	154.882	20	B	3060.0	0.0506

WiFi 6G Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	1.26	22.50	21.61	0.50	162.555	20	B	3060.0	0.0531

Bluetooth Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	0.04	16.00	13.89	0.50	27.479	20	B	3060.0	0.0090

NFC Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
NFC	-	-	-30.50	0.5	0.001	20	B	27.7	0.0004

WWAN Function:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
LTE-Band 2	2.18	22.93	22.96	0.50	221.820	20	B	3060.0	0.0725
LTE-Band 4	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
LTE-Band 5	0.22	23.68	21.75	0.50	167.880	20	B	1682.4	0.0998
LTE-Band 7	0.52	22.57	20.94	0.50	139.316	20	B	3060.0	0.0455
LTE-Band 12	1.74	23.78	23.37	0.50	243.781	20	B	1427.4	0.1708
LTE-Band 13	1.73	23.68	23.26	0.50	237.684	20	B	1590.2	0.1495
LTE-Band 14	0.75	23.66	22.26	0.50	188.799	20	B	1607.5	0.1174
LTE-Band 17	1.42	23.78	23.05	0.50	226.464	20	B	1436.2	0.1577
LTE-Band 25	2.18	22.93	22.96	0.50	221.820	20	B	3060.0	0.0725
LTE-Band 26	0.22	23.68	21.75	0.50	167.880	20	B	1682.4	0.0998
LTE-Band 26 Part 90	1.02	23.70	22.57	0.50	202.768	20	B	1662.0	0.1220
LTE-Band 30	0.38	20.22	18.45	0.50	78.524	20	B	3060.0	0.0257
LTE-Band 38	0.04	22.55	20.44	0.50	124.165	20	B	3060.0	0.0406
LTE-Band 41	0.73	22.57	21.15	0.50	146.218	20	B	3060.0	0.0478
LTE-Band 41(HPUE)	0.73	24.57	23.15	0.50	231.739	20	B	3060.0	0.0757



Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
LTE-Band 42	1.81	19.08	18.74	0.50	83.946	20	B	3060.0	0.0274
LTE-Band 42	1.72	19.08	18.65	0.50	82.224	20	B	3060.0	0.0269
LTE-Band 43	2.61	19.07	19.53	0.50	100.693	20	B	3060.0	0.0329
LTE-Band 43	0.72	19.07	17.64	0.50	65.163	20	B	3060.0	0.0213
LTE-Band 48	1.64	22.57	22.06	0.50	180.302	20	B	3060.0	0.0589
LTE-Band 66	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
LTE-Band 70	2.62	22.52	22.99	0.50	223.357	20	B	3060.0	0.0730
LTE-Band 71	0.76	23.85	22.46	0.50	197.697	20	B	1357.6	0.1456
LTE Band 106	-0.02	23.09	20.92	0.50	138.676	20	B	1838.0	0.0754
NR n2	2.18	22.93	22.96	0.50	221.820	20	B	3060.0	0.0725
NR n5	0.22	23.68	21.75	0.50	167.880	20	B	1682.4	0.0998
NR n7	0.52	22.57	20.94	0.50	139.316	20	B	3060.0	0.0455
NR n12	1.74	23.78	23.37	0.50	243.781	20	B	1427.4	0.1708
NR n13	1.73	23.68	23.26	0.50	237.684	20	B	1590.2	0.1495
NR n14	0.75	23.66	22.26	0.50	188.799	20	B	1607.5	0.1174
NR n25	2.18	22.93	22.96	0.50	221.820	20	B	3060.0	0.0725
NR n26	0.22	23.68	21.75	0.50	167.880	20	B	1682.4	0.0998
NR n26 Part 90	1.02	23.70	22.57	0.50	202.768	20	B	1662.0	0.1220
NR n30	0.38	20.22	18.45	0.50	78.524	20	B	3060.0	0.0257
NR n38	0.04	22.55	20.44	0.50	124.165	20	B	3060.0	0.0406
NR n41_PC3	0.73	22.57	21.15	0.50	146.218	20	B	3060.0	0.0478
NR n48	1.64	22.57	22.06	0.50	180.302	20	B	3060.0	0.0589
NR n53	0.63	22.57	21.05	0.50	142.889	20	B	3060.0	0.0467
NR n66	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NR n70	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NR n71	0.76	23.85	22.46	0.50	197.697	20	B	1357.6	0.1456
NR n77_PC3	0.89	21.82	20.56	0.50	127.644	20	B	3060.0	0.0417
NR n78_PC3	0.72	22.07	20.64	0.50	130.017	20	B	3060.0	0.0425

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

**Simultaneous Transmission Analysis Mode:****Mode 1: 2.4GHz+6GHz WLAN+WWAN+NFC**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
Co-TX Mode: 1	-	-	-	-	-	-	-	-	-
2.4G;G1D	3.25	24.50	25.60	0.50	407.380	20	B	3060.0	0.1332
6.7G;D1D	1.26	22.50	21.61	0.50	162.555	20	C	768.000	0.2117
WWAN;D1D	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NFC	-	-	-30.50	0.5	0.001	20	B	27.7	0.0004
Sum TL Ratio_B	0.2155								
Sum TL Ratio_C	0.2117								
Sum Ratio	0.4272								
Ratio Limit	1								

Mode 2: 2.4GHz WLAN+5GHz WLAN+WWAN+NFC

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
Co-TX Mode: 2	-	-	-	-	-	-	-	-	-
2.4G;G1D	3.25	24.50	25.60	0.50	407.380	20	B	3060.0	0.1332
5.6G;D1D	1.05	22.50	21.40	0.50	154.882	20	B	3060.0	0.0506
WWAN;D1D	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NFC	-	-	-56.50	0.5	0.001	20	B	27.7	0.0001
Sum TL Ratio_B	0.2658								
Ratio Limit	1								

Mode 3: 6GHz WLAN+Bluetooth+WWAN+NFC

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
Co-TX Mode: 3	-	-	-	-	-	-	-	-	-
6.7G;D1D	1.26	22.50	21.61	0.50	162.555	20	C	768.000	0.2117
2.4G;BT-LE	0.04	16.00	13.89	0.50	27.479	20	B	3060.0	0.0090
WWAN;D1D	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NFC	-	-	-30.50	0.5	0.001	20	B	27.7	0.0004
Sum TL Ratio_B	0.0913								
Sum TL Ratio_C	0.2117								
Sum Ratio	0.3030								
Ratio Limit	1								

Mode 4: 5GHz WLAN+Bluetooth+WWAN+NFC

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
Co-TX Mode: 4	-	-	-	-	-	-	-	-	-
5.6G;D1D	1.05	22.50	21.40	0.50	154.882	20	B	3060.0	0.0506
2.4G;BT-LE	0.04	16.00	13.89	0.50	27.479	20	B	3060.0	0.0090
WWAN;D1D	2.62	23.02	23.49	0.50	250.611	20	B	3060.0	0.0819
NFC	-	-	-56.50	0.5	0.001	20	B	27.7	0.0001
Sum TL Ratio_B	0.1416								
Ratio Limit	1								



Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

Note 4: Refer as clause 2.3 Multiple RF Sources Exposure. Please follow below option and sum TL ration table.

Option	Sum TL Ratio_B	Option	Sum TL Ratio_C	Option	Sum TL Ratio_E
B	$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	C	$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	E	$\sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k}$

Note: The above antenna gain was declared by manufacturer.

————THE END————