



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00145ALF  
**Equipment** : Notebook Computer  
**Brand Name** : Lenovo  
**Compliance ID** : TP00145A; TP00145B  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No.780, Beian Rd., Zhongshan Dist., Taipei 104, Taiwan  
**Manufacturer** : LCFC (HeFei) Electronics Technology Co., Ltd.  
No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei  
Economics & Technology Development Area, Anhui, CHINA  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Nov. 14, 2022 and testing was performed from Dec. 29, 2022 to Jan. 05, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

*Louis Wu*

Approved by: Louis Wu

*Sporton International Inc. Wensan Laboratory*



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### History of this test report

<b>Report No.</b>	<b>Version</b>	<b>Description</b>	<b>Issue Date</b>
FG2N1456A	01	Initial issue of report	Jan. 09, 2023
FG2N1456A	02	Revise Product Feature	Feb. 20, 2023
FG2N1456A	03	Revise cover page and Product Feature	Feb. 23, 2023



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	34.55 dB under limit at 5142.000 MHz

**Note:**

- For host device, Radiated Spurious Emission, Effective Radiated Power and Effective Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: L860-GL-16).



<b>Declaration of Conformity:</b>
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".
<b>Comments and Explanations:</b>
1. The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different Compliance ID is for CPU (Intel/AMD).

**Reviewed by: Sheng Kuo**

**Report Producer: Cindy Liu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Compliance ID	TP00145A; TP00145B
FCC ID	2AJN7-TP00145ALF
Sample 1	EUT with Amphenol Taiwan Corporation Antenna
Sample 2	EUT with Speed Antenna
Integrated WLAN Module	Brand Name: Intel Model Name: AX211D2W FCC ID: PD9AX211D2
Integrated WLAN Module	Brand Name: Qualcomm Model Name: QCNFA725 FCC ID: A5M-QCNFA725
Integrated NFC Module	Brand Name: Foxconn Model Name: T77H747
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

WWAN Antenna Information				
Main Antenna	Manufacturer	Amphenol Taiwan Corporation	Peak gain (dBi)	WCDMA Band II: 0.4 WCDMA Band IV: 1.6 WCDMA Band V: -0.4
	Part number	DC33001YS50	Type	PIFA
	Manufacturer	Speed	Peak gain (dBi)	WCDMA Band II: 0.4 WCDMA Band IV: 1.6 WCDMA Band V: -0.4
	Part number	DC33001YT50	Type	PIFA

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
<b>Tx Frequency</b>	<b>WCDMA:</b> Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
<b>Rx Frequency</b>	<b>WCDMA:</b> Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
<b>Maximum Output Power to Antenna</b>	<b>WCDMA:</b> Band V: 23.80 dBm Band II: 24.00 dBm Band IV: 23.79 dBm
<b>Type of Modulation</b>	WCDMA: BPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink)

## 1.3 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333
Test Site No.	<b>Sporton Site No.</b>
	TH03-HY (TAF Code: 1190)
Test Engineer	Cotty Hsu
Temperature (°C)	22.2~23.1
Relative Humidity (%)	51~56
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010
Test Site No.	<b>Sporton Site No.</b>
	03CH20-HY
Test Engineer	John Chuang, JC Liang and Howard Huang
Temperature (°C)	18~22
Relative Humidity (%)	60~70

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

### 1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

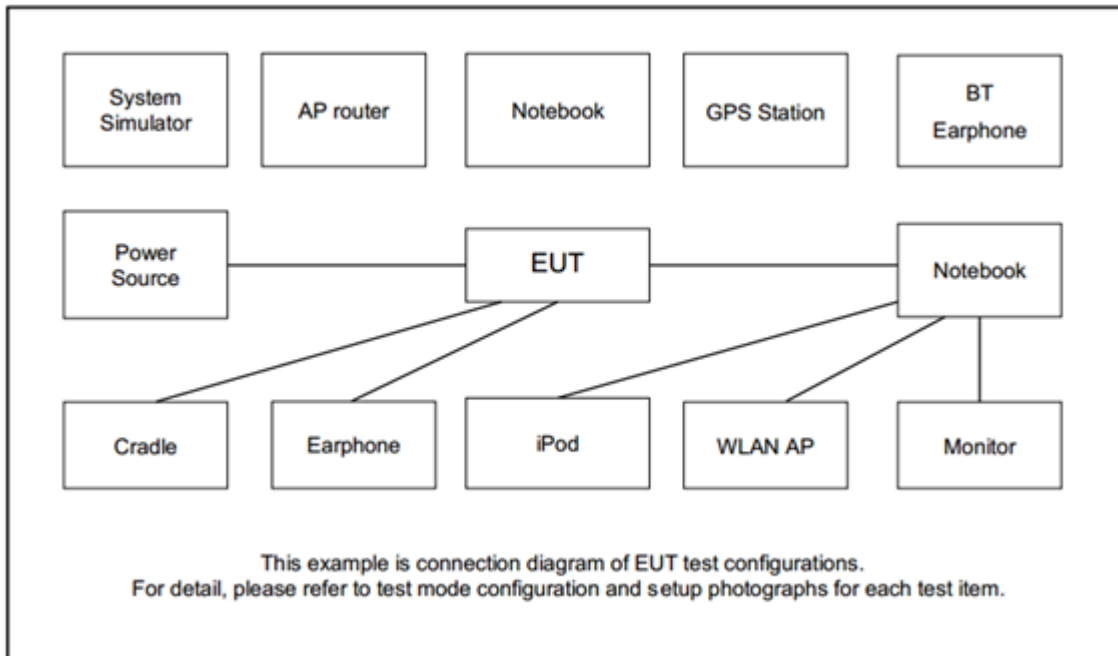
All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

Remark: All the radiated test cases were performed with Sample 2.

### 2.2 Connection Diagram of Test System





### 2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

### 2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

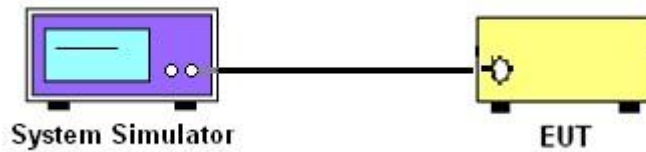
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

## 4 Radiated Test Items

### 4.1 Measuring Instruments

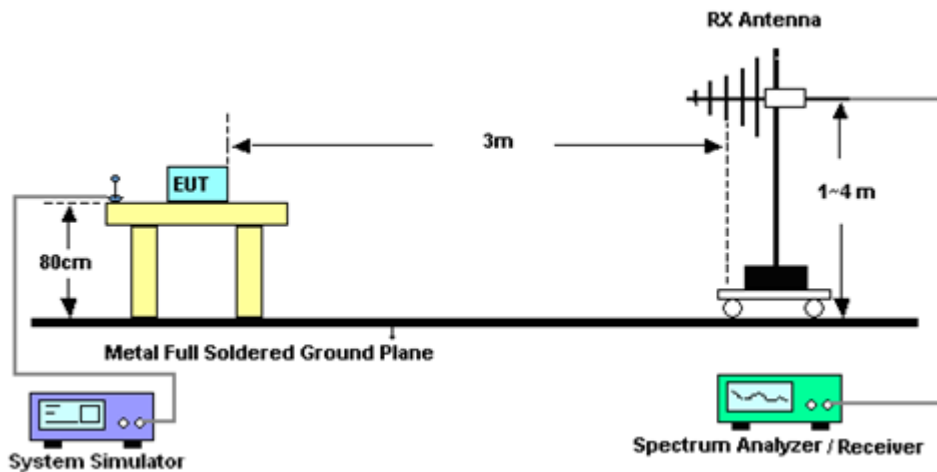
See list of measuring instruments of this test report.

### 4.2 Test Setup

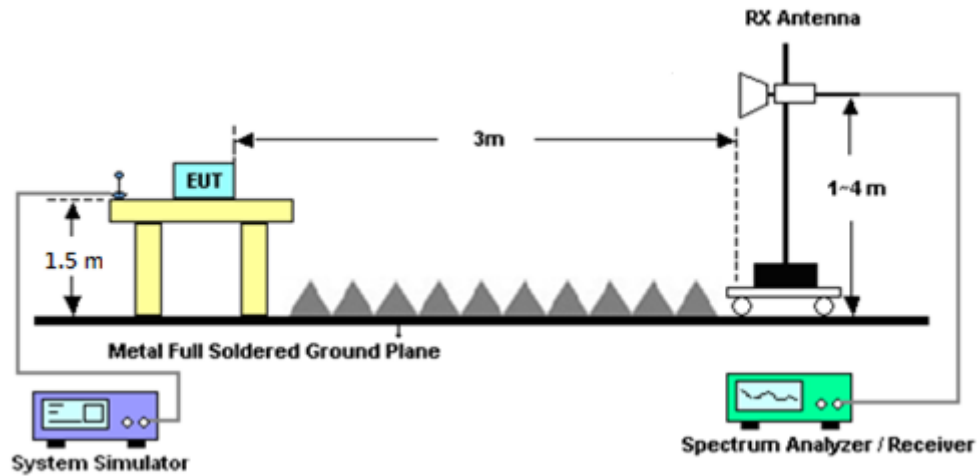
For radiated test below 30MHz



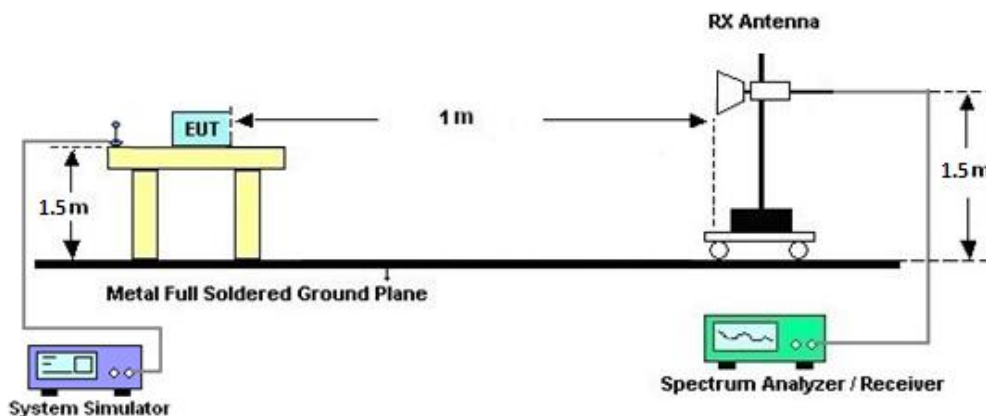
For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



For radiated test above 18GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## 4.4 Field Strength of Spurious Radiation Measurement

### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Take the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 03, 2023~ Jan. 05, 2023	Jan. 06, 2023	Radiation (03CH20-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Jan. 03, 2023~ Jan. 05, 2023	Oct. 17, 2023	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Jan. 03, 2023~ Jan. 05, 2023	Jun. 27, 2023	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Oct. 21, 2023	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 09, 2022	Jan. 03, 2023~ Jan. 05, 2023	Aug. 08, 2023	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Nov. 04, 2022	Jan. 03, 2023~ Jan. 05, 2023	Nov. 03, 2023	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHZ-1000MHZ	Jan. 02, 2023	Jan. 03, 2023~ Jan. 05, 2023	Jan. 01, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 14, 2022	Jan. 03, 2023~ Jan. 05, 2023	Nov. 13, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80 4015/2,8040 27/2	N/A	Jan. 19, 2022	Jan. 03, 2023~ Jan. 05, 2023	Jan. 18, 2023	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Mar. 21, 2023	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jan. 03, 2023~ Jan. 05, 2023	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 22, 2022	Jan. 03, 2023~ Jan. 05, 2023	Dec. 21, 2023	Radiation (03CH20-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Dec. 29, 2022~ Dec. 30, 2022	Oct. 12, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Dec. 29, 2022~ Dec. 30, 2022	Jan. 06, 2023	Conducted (TH03-HY)





## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.33 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.40 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.43 dB
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### Appendix A. Test Results of Conducted Test

#### Conducted Output Power(Average power & ERP/EIRP)

WCDMA Band V Maximum Average Power [dBm] (GT - LC = -0.4 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	23.62	23.80	23.40	21.25	0.1334
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = 0.4 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.65	23.64	24.00	24.40	0.2754
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 1.6 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.75	23.78	23.79	25.39	0.3459
Limit	EIRP < 1W			Result	Pass



## Appendix B. Test Results of Radiated Test

### WCDMA 850

WCDMA 850									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-63.58	-13	-50.58	-72.54	-65.99	4.92	9.48	H
	2480	-63.01	-13	-50.01	-75.22	-65.28	6.08	10.50	H
	3304	-63.37	-13	-50.37	-79.08	-65.29	7.04	11.11	H
									H
									H
									H
									H
	1648	-62.18	-13	-49.18	-70.91	-64.59	4.92	9.48	V
	2480	-60.68	-13	-47.68	-72.83	-62.95	6.08	10.50	V
	3304	-63.37	-13	-50.37	-78.83	-65.29	7.04	11.11	V
									V
	Middle	1672	-56.70	-13	-43.70	-65.67	-59.22	4.96	9.63
2512		-55.70	-13	-42.70	-68.06	-57.93	6.12	10.50	H
3344		-63.56	-13	-50.56	-79.21	-65.52	7.08	11.19	H
									H
									H
									H
									H
1672		-58.16	-13	-45.16	-66.91	-60.68	4.96	9.63	V
2512		-62.88	-13	-49.88	-75.14	-65.11	6.12	10.50	V
3344		-63.97	-13	-50.97	-79.37	-65.93	7.08	11.19	V
									V
									V
								V	



Highest	1696	-57.55	-13	-44.55	-66.53	-60.18	4.99	9.78	H
	2536	-64.91	-13	-51.91	-77.44	-67.11	6.15	10.50	H
	3384	-63.68	-13	-50.68	-79.25	-65.67	7.12	11.27	H
									H
									H
									H
									H
	1696	-58.39	-13	-45.39	-67.16	-61.02	4.99	9.78	V
	2536	-65.14	-13	-52.14	-77.54	-67.34	6.15	10.50	V
	3384	-63.91	-13	-50.91	-79.23	-65.90	7.12	11.27	V
									V
									V
									V
									V
								V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**WCDMA 1700**

WCDMA 1700									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-57.53	-13	-44.53	-73.9	-61.87	7.17	11.51	H
	5142	-49.56	-13	-36.56	-70.76	-52.38	8.83	11.65	H
	6852	-57.37	-13	-44.37	-82.04	-58.32	10.26	11.21	H
									H
									H
									H
									H
	3426	-56.05	-13	-43.05	-72.24	-60.39	7.17	11.51	V
	5142	-47.55	-13	-34.55	-68.59	-50.37	8.83	11.65	V
	6852	-57.03	-13	-44.03	-82.51	-57.98	10.26	11.21	V
									V
									V
									V
									V
Middle	3462	-56.20	-13	-43.20	-72.56	-60.74	7.21	11.75	H
	5196	-48.46	-13	-35.46	-69.72	-51.47	8.88	11.88	H
	6930	-57.05	-13	-44.05	-81.8	-58.19	10.32	11.46	H
									H
									H
									H
									H
	3462	-54.64	-13	-41.64	-70.94	-59.18	7.21	11.75	V
	5196	-47.78	-13	-34.78	-68.97	-50.79	8.88	11.88	V
	6930	-56.51	-13	-43.51	-82.03	-57.65	10.32	11.46	V
									V
									V
									V
									V
								V	



Highest	3504	-51.34	-13	-38.34	-67.71	-55.99	7.25	11.90	H
	5262	-47.89	-13	-34.89	-69.17	-50.95	8.94	12.00	H
	7008	-57.28	-13	-44.28	-82.12	-58.26	10.39	11.37	H
									H
									H
									H
									H
	3504	-50.72	-13	-37.72	-67.09	-55.37	7.25	11.90	V
	5262	-49.66	-13	-36.66	-70.83	-52.72	8.94	12.00	V
	7008	-56.52	-13	-43.52	-82.09	-57.50	10.39	11.37	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA 1900

WCDMA 1900									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3708	-48.50	-13	-35.50	-65.94	-52.88	7.50	11.88	H
	5556	-48.03	-13	-35.03	-69.56	-51.33	9.19	12.49	H
	7410	-56.40	-13	-43.40	-82.08	-56.96	10.68	11.24	H
									H
									H
									H
									H
	3708	-49.00	-13	-36.00	-66.1	-53.38	7.50	11.88	V
	5556	-51.75	-13	-38.75	-73.2	-55.05	9.19	12.49	V
	7410	-55.74	-13	-42.74	-81.76	-56.30	10.68	11.24	V
									V
									V
									V
									V
Middle	3756	-53.76	-13	-40.76	-71.55	-57.97	7.56	11.78	H
	5634	-57.55	-13	-44.55	-79.31	-60.55	9.26	12.26	H
	7518	-56.22	-13	-43.22	-81.95	-57.03	10.76	11.57	H
									H
									H
									H
									H
	3756	-55.60	-13	-42.60	-73.07	-59.81	7.56	11.78	V
	5634	-51.95	-13	-38.95	-73.73	-54.95	9.26	12.26	V
	7518	-55.60	-13	-42.60	-81.55	-56.41	10.76	11.57	V
									V
									V
									V
									V
								V	



Highest	3816	-58.53	-13	-45.53	-76.67	-62.43	7.64	11.54	H
	5718	-57.55	-13	-44.55	-79.67	-60.14	9.34	11.93	H
	7632	-55.81	-13	-42.81	-81.78	-56.60	10.85	11.64	H
									H
									H
									H
									H
	3816	-60.39	-13	-47.39	-78.27	-64.29	7.64	11.54	V
	5718	-53.48	-13	-40.48	-75.81	-56.07	9.34	11.93	V
	7632	-55.27	-13	-42.27	-81.51	-56.06	10.85	11.64	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.