



FCC RADIO TEST REPORT

FCC ID : UZ7-RTL10C1
Equipment : Tablet PC with Windows OS
Brand Name : Zebra
Model Name : RTL10C1
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, Part 27(D)

The product was received on Dec. 09, 2021 and testing was performed from Dec. 24, 2021 to Feb. 16, 2022. We, Sporton International Inc. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	-	Peak-to-Average Ratio	-	See Note
3.3	§27.50 (a)(3)	Effective Isotropic Radiated Power	Pass	-
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	-	See Note
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 4.24 dB at 4611.000 MHz and 4614.000 MHz

Note: The module (Model: RM505Q-AE) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

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 this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC with Windows OS
Brand Name	Zebra
Model Name	RTL10C1
FCC ID	UZ7-RTL10C1
Sample 1	XPAD
Sample 2	XSLATE
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	Windows 10 Pro
MFD	18OCT21
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
Adaptor with CLA cable	Brand Name	Zebra	Model Number	ADP-65JH HB
Battery	Brand Name	ZEBRA	Model Number	XLBM1
Power cord	Brand Name	Zebra	Model Number	450040

Supported Unit Used in Test Configuration and System				
Keyboard	Brand Name	Zebra	Model Number	L10-KB
98 Whr Extended Battery (Certified)	Brand Name	Zebra	Model Number	XLBE1
AEI LONG RANGE RFID MODULE	Brand Name	Zebra	Model Number	M6E-MICRO
PASSIVE SHORT STYLUS	Brand Name	Zebra	Model Number	440007
ET8X MPP 2.0 ACTIVE STYLUS WITH 5 REPLACEMENT TIPS. AAAA BATTERY INCLUDED	Brand Name	Zebra	Model Number	SG-ET8X-STYLUS1-01



1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	LTE Band 30: 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30: 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30: 21.36 dBm
Antenna Type	Fixed Internal Antenna
Antenna Gain	LTE Band 30: 0.47 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

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

1.3 Modification of EUT

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

1.4 Maximum EIRP Power

LTE Band 30		QPSK	16QAM	64QAM	256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
5	2307.5~2312.5	0.1507	0.1315	0.1021	0.0478
10	2310	0.1524	0.1315	0.1023	0.0481



1.5 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	George Chen
Temperature (°C)	21.8~24.5
Relative Humidity (%)	52.4~58.6

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature (°C)	22.3~26.4
Relative Humidity (%)	58~66
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

1.6 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, Part 27(D)
- ♦ ANSI / TIA-603-E
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

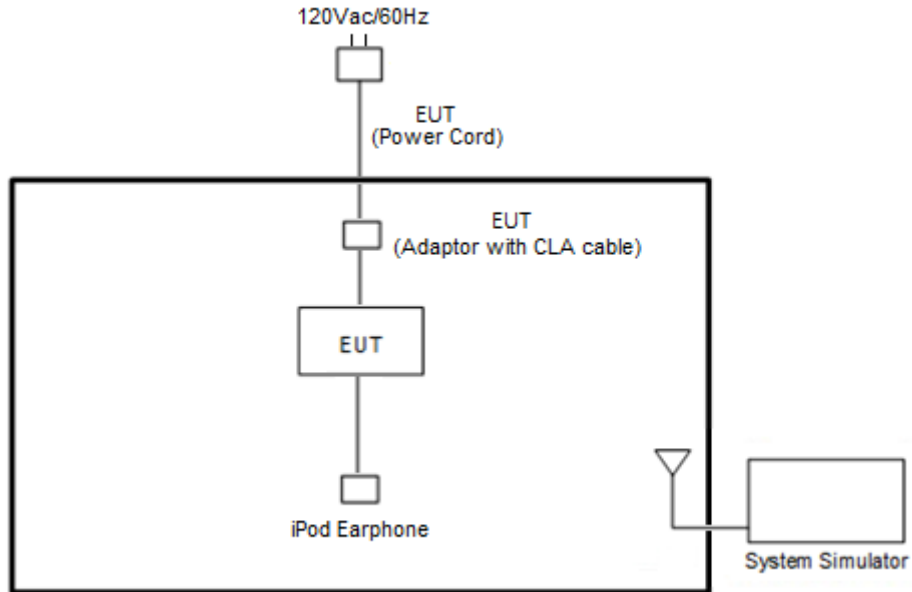
2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find **<Sample 1>**: X Plane with accessory; **<Sample 2>**: Y Plane with accessory as worst plane.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	30	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P	30	-	-	v	v	-	-	v	v	v	v	Max. Power						
Radiated Spurious Emission	30	-	-	v	v	-	-	v				v			v	v	v	
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 																	

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

LTE Band 30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

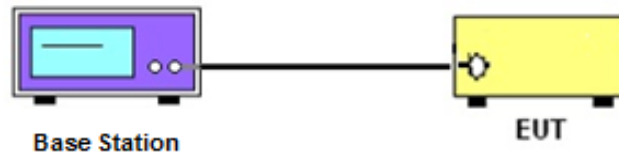
3 Conducted Test Items

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 Measurement

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

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



3.3 Effective Isotropic Radiated Power

3.3.1 Description of Effective Isotropic Radiated Power

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Remark: EIRP use worst case measure the total power to cover per 5MHz Power.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, 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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

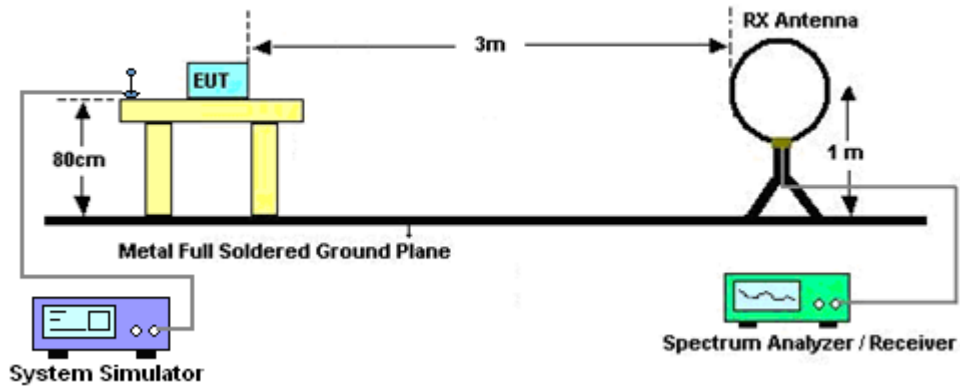
4 Radiated Test Items

4.1 Measuring Instruments

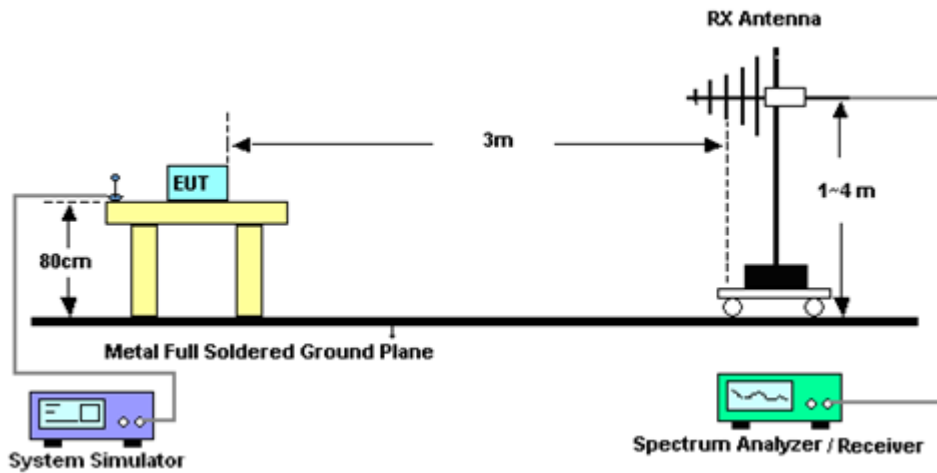
See list of measuring instruments of this test report.

4.1.1 Test Setup

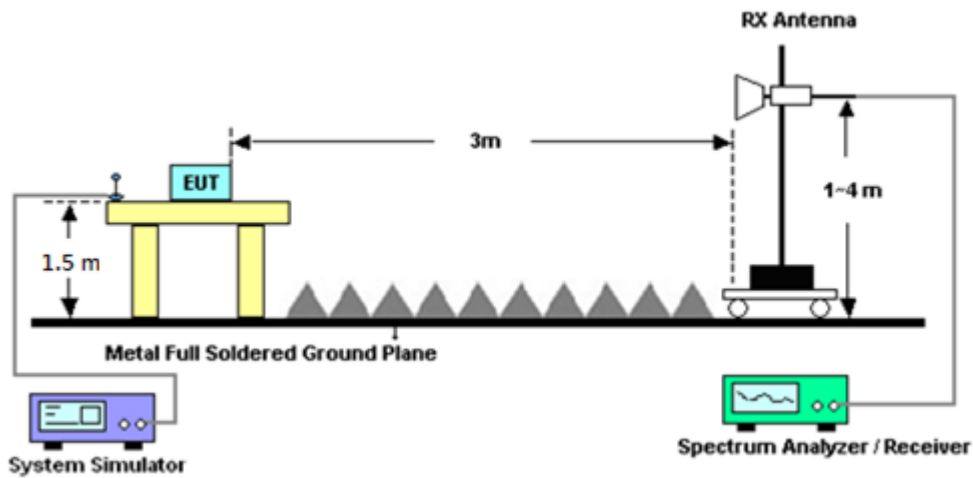
For radiated test below 30MHz



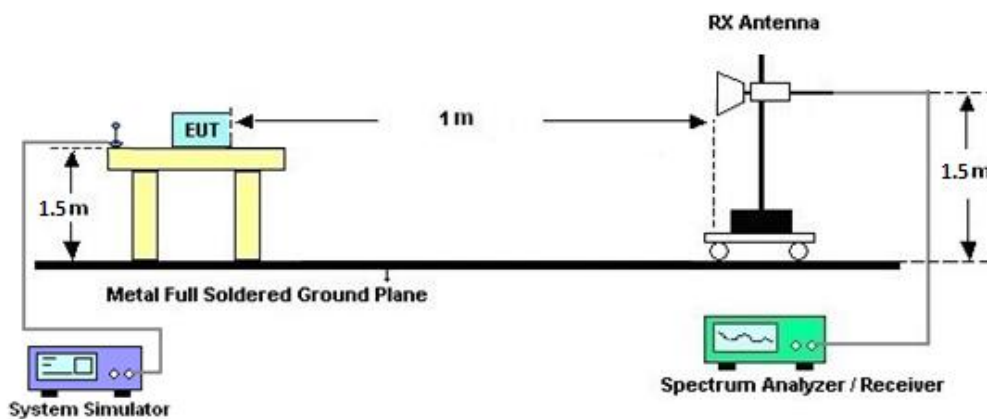
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB 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.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E
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 $70 + 10 \log (P)$ dB.
The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 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 turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm.}$$



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. 13, 2022~ Jan. 29, 2022	Jan. 06, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Oct. 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 24, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Jan. 13, 2022~ Jan. 29, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 21, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jun. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010B	MY60240520	10Hz~44GHz	Dec. 23, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 22, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 OSS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Jan. 13, 2022~ Jan. 29, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6201664755	2/3/4G/LTE FDD/TDD with44)/LTE-3CC DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 21, 2021	Dec. 24, 2021~ Feb. 16, 2022	Jul. 20, 2022	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% ($U = 2Uc(y)$)	3.10 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.39 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.34 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

LTE Band 30 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK		21.36		21.83	0.1524
10	1	25			21.27			
10	1	49			21.32			
10	25	0			20.34			
10	25	12			20.39			
10	25	25			20.50			
10	50	0			20.40			
10	1	0	16-QAM		20.64		21.19	0.1315
10	1	25			20.69			
10	1	49			20.72			
10	25	0			19.35			
10	25	12			19.39			
10	25	25			19.52			
10	50	0			19.38			
10	1	0	64-QAM		19.47		20.10	0.1023
10	1	25			19.63			
10	1	49			19.57			
10	25	0			18.36			
10	25	12			18.42			
10	25	25			18.55			
10	50	0			18.45			
10	1	0	256-QAM		16.17		16.82	0.0481
10	1	25			16.29			
10	1	49			16.35			
10	25	0			16.25			
10	25	12			16.34			
10	25	25			16.34			
10	50	0			16.26			
Limit	EIRP < 250mW/5MHz			Result			Pass	



LTE Band 30 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.12	21.17	21.12	21.78	0.1507
5	1	12		21.21	21.17	21.19		
5	1	24		21.15	21.31	21.13		
5	12	0		20.05	20.15	20.14		
5	12	7		20.30	20.32	20.22		
5	12	13		20.34	20.26	20.22		
5	25	0		20.29	20.35	20.11		
5	1	0	16-QAM	20.45	20.52	20.41	21.19	0.1315
5	1	12		20.46	20.51	20.43		
5	1	24		20.72	20.59	20.42		
5	12	0		19.22	19.07	19.10		
5	12	7		19.36	19.26	19.16		
5	12	13		19.38	19.24	19.47		
5	25	0		19.08	19.18	19.21		
5	1	0	64-QAM	19.22	19.27	19.32	20.09	0.1021
5	1	12		19.62	19.60	19.46		
5	1	24		19.43	19.41	19.27		
5	12	0		18.34	18.25	18.24		
5	12	7		18.31	18.27	18.22		
5	12	13		18.36	18.27	18.29		
5	25	0		18.17	18.21	18.19		
5	1	0	256-QAM	16.05	16.08	16.15	16.79	0.0478
5	1	12		16.28	16.10	16.13		
5	1	24		16.15	16.21	16.21		
5	12	0		16.13	16.23	16.13		
5	12	7		16.20	16.30	16.29		
5	12	13		16.32	16.32	16.18		
5	25	0		16.24	16.15	16.25		
Limit	EIRP < 250mW/5MHz			Result			Pass	



Appendix B. Test Results of Radiated Test

<Sample 1>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
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	4611	-44.24	-40	-4.24	-31.2	-55.46	1.45	12.68	H
	6916	-60.30	-40	-20.30	-54.5	-70.59	1.73	12.02	H
	9221	-58.58	-40	-18.58	-53.86	-68.20	2.16	11.78	H
									H
									H
									H
	4611	-45.73	-40	-5.73	-31.91	-56.95	1.45	12.68	V
	6916	-59.71	-40	-19.71	-53.47	-70.00	1.73	12.02	V
	9221	-58.10	-40	-18.10	-54.37	-67.72	2.16	11.78	V
									V
									V
									V
Middle	4616	-45.44	-40	-5.44	-32.42	-56.66	1.46	12.68	H
	6924	-59.70	-40	-19.70	-53.94	-69.98	1.73	12.01	H
	9231	-59.03	-40	-19.03	-54.3	-68.64	2.16	11.77	H
									H
									H
									H
	4616	-47.37	-40	-7.37	-33.57	-58.59	1.46	12.68	V
	6924	-58.92	-40	-18.92	-52.71	-69.20	1.73	12.01	V
	9231	-57.98	-40	-17.98	-54.26	-67.59	2.16	11.77	V
									V
									V
									V



Highest	4621	-44.93	-40	-4.93	-31.94	-56.15	1.46	12.68	H
	6931	-59.67	-40	-19.67	-53.94	-69.94	1.73	12.00	H
	9241	-59.09	-40	-19.09	-54.36	-68.69	2.16	11.76	H
									H
									H
									H
	4621	-46.12	-40	-6.12	-32.35	-57.34	1.46	12.68	V
	6931	-59.47	-40	-19.47	-53.28	-69.74	1.73	12.00	V
	9241	-58.09	-40	-18.09	-54.39	-67.69	2.16	11.76	V
									V
									V
									V

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



LTE Band 30 / 10MHz / QPSK									
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)
Middle	4614	-44.24	-40	-4.24	-31.2	-55.46	1.46	12.68	H
	6918	-59.34	-40	-19.34	-53.54	-69.62	1.73	12.01	H
	9225	-58.81	-40	-18.81	-54.09	-68.43	2.16	11.78	H
									H
									H
									H
	4614	-45.74	-40	-5.74	-31.92	-56.96	1.46	12.68	V
	6918	-59.26	-40	-19.26	-53.01	-69.54	1.73	12.01	V
	9225	-57.60	-40	-17.60	-53.87	-67.22	2.16	11.78	V
									V
									V
									V

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



<Sample 2>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
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	4611	-62.54	-40	-22.54	-49.5	-73.76	1.45	12.68	H
	6916	-59.20	-40	-19.20	-53.4	-69.49	1.73	12.02	H
	9221	-59.08	-40	-19.08	-54.36	-68.70	2.16	11.78	H
									H
									H
									H
	4611	-62.58	-40	-22.58	-48.76	-73.80	1.45	12.68	V
	6916	-60.02	-40	-20.02	-53.78	-70.31	1.73	12.02	V
	9221	-57.98	-40	-17.98	-54.25	-67.60	2.16	11.78	V
									V
									V
									V
Middle	4616	-62.77	-40	-22.77	-49.74	-73.99	1.46	12.68	H
	6924	-60.00	-40	-20.00	-54.19	-70.27	1.73	12.01	H
	9231	-58.83	-40	-18.83	-54.1	-68.44	2.16	11.77	H
									H
									H
									H
	4616	-62.27	-40	-22.27	-48.47	-73.49	1.46	12.68	V
	6924	-60.70	-40	-20.70	-54.45	-70.97	1.73	12.01	V
	9231	-57.93	-40	-17.93	-54.2	-67.54	2.16	11.77	V
									V
									V
									V



Highest	4621	-61.81	-40	-21.81	-48.82	-73.03	1.46	12.68	H
	6931	-59.94	-40	-19.94	-54.21	-70.21	1.73	12.00	H
	9241	-58.75	-40	-18.75	-54.02	-68.35	2.16	11.76	H
									H
									H
									H
	4621	-61.78	-40	-21.78	-48.01	-73.00	1.46	12.68	V
	6931	-59.92	-40	-19.92	-53.73	-70.19	1.73	12.00	V
	9241	-57.85	-40	-17.85	-54.15	-67.45	2.16	11.76	V
									V
									V
									V

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



LTE Band 30 / 10MHz / QPSK									
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)
Middle	4614	-62.31	-40	-22.31	-49.28	-73.53	1.46	12.68	H
	6918	-59.99	-40	-19.99	-54.19	-70.27	1.73	12.01	H
	9225	-58.62	-40	-18.62	-53.9	-68.24	2.16	11.78	H
									H
									H
									H
									H
	4614	-62.19	-40	-22.19	-48.39	-73.41	1.46	12.68	V
	6918	-60.06	-40	-20.06	-53.82	-70.34	1.73	12.01	V
	9225	-58.12	-40	-18.12	-54.4	-67.74	2.16	11.78	V
									V
									V
									V
									V

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