



FCC RADIO TEST REPORT

FCC ID : QYLEM7511F6
Equipment : WWAN Module
Brand Name : Getac
Model Name : EM7511
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang
Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.
Standard : FCC 47 CFR Part 2, 96

The product was received on Jan. 13, 2021 and testing was started from Mar. 08, 2021 and completed on Mar. 23, 2021. 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.

Louis Wu

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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History of this test report

Report No.	Version	Description	Issued Date
FG111323E	01	Initial issue of report	Apr. 01, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	-	See Note
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§2.1049 §96.41	Occupied Bandwidth	-	See Note
-	§2.1051 §96.41	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §96.41	Conducted Spurious Emission	-	See Note
-	§2.1055	Frequency Stability for Temperature & Voltage	-	See Note
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	-

Note: The module (Model: EM7511) makes no difference after verifying output power, this report reuses test data from the module report.

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:

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.

Reviewed by: Wii Chang

Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE, and GNSS.

Product Specification subjective to this standard	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WWAN: <Main> PIFA Antenna <Aux.> PIFA Antenna GPS / Glonass : PATCH Antenna
Antenna Gain	LTE Band 48: -0.4 dBi

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

The product was installed into Tablet (Brand Name: Getac, Model Name: F110, F110G6, F110-Ex, F110-621) during test, and the host information was recorded in the following table.

Host Information	
Host 1	Host with SKU B
Host 2	Host with SKU C

SKU	SKU B	SKU C
CPU	i5-1135G7 (Non Vpro)	i7-1165G7 (Vpro)
DDR	Kingston DDR4-3200 16GB	Kingston DDR4-3200 32GB
SSD	512GB	1TB
PANEL	Full HD AUO	Full HD AUO
DIGITIZER	N/A	EMRight Digitizer
OPTION BAY	2D Barcode Reader	RS232 + LAN
Expansion Bay	Smart Card	Smart Card
Right side option	NXP RFID(PN7462)	Finger Print
WLAN/BT	Intel AX201	Intel AX201
WWAN(4G)	EM7511	EM7511
GPS/GNS	EM7511	EM7511
Rear 8M Camera	Support	Support
Webcam FHD	Not Support	Not Support
IR Webcam	Support	Support
USB3.2 Gen2 x 1 Type-A	Support	Support
Type-C (thunder bolt)	Support	Support
Audio/MIC	Support	Support



1.2 Modification of EUT

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

1.3 Testing Location

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. TH05-HY
Test Engineer	Bryant Liu
Temperature	20.3~23.6℃
Relative Humidity	43.3~54.3%

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, Chuan Chu
Temperature	22.3~26.1℃
Relative Humidity	55~63%
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 TW0007



1.4 Applied 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, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v01
- ♦ 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

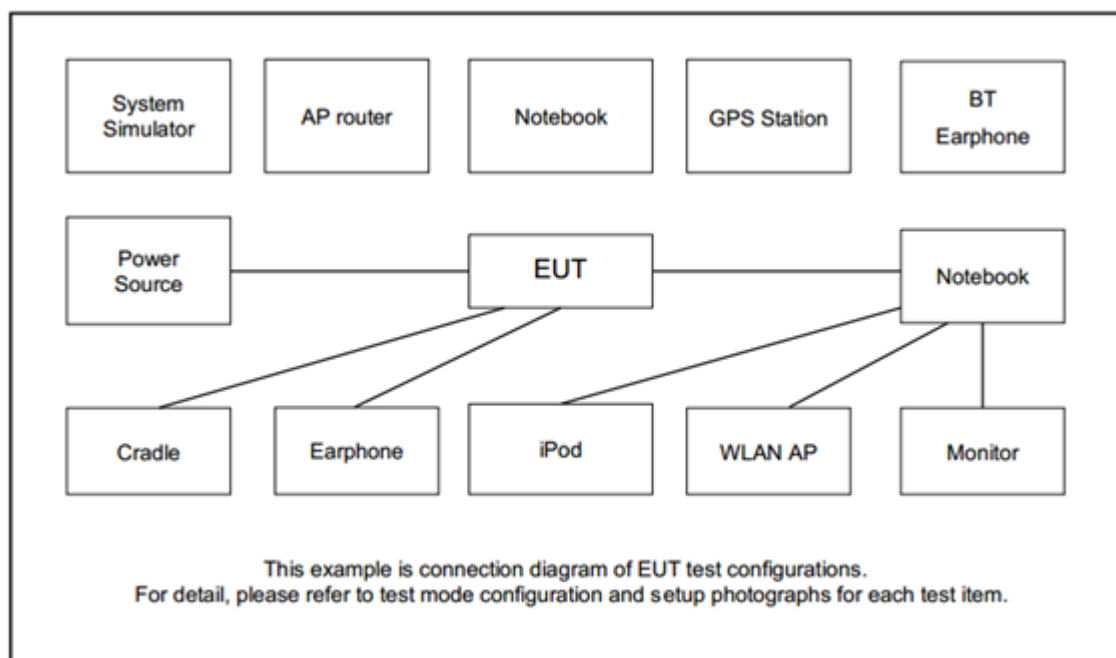
2.1 Test Mode

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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	48	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	48	-	-	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	48	-	-				v	v			v			v	v	v
Remark	- 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. - All the radiated test cases were performed with Adapter 1, Battery 2 and 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

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560.0	3625.0	3690.0
15	Channel	55315	55990	56665
	Frequency	3557.5	3625.0	3692.5
10	Channel	55290	55990	56690
	Frequency	3555.0	3625.0	3695.0
5	Channel	55265	55990	56715
	Frequency	3552.5	3625.0	3697.5

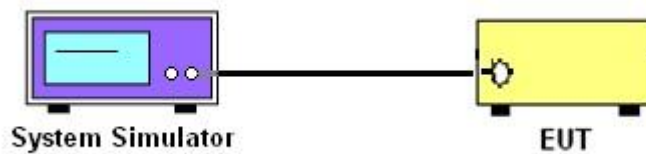
3 Conducted Test Items

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

3.2.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. 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 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48

The testing follows ANSI C63.26-2015 Section 5.2.5.5

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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: The total power is larger than the integrated power across 10MHz portion. Hence, total channel power is complied with EIRP limit 23dBm/10MHz

3.3.1 Test Procedures.

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

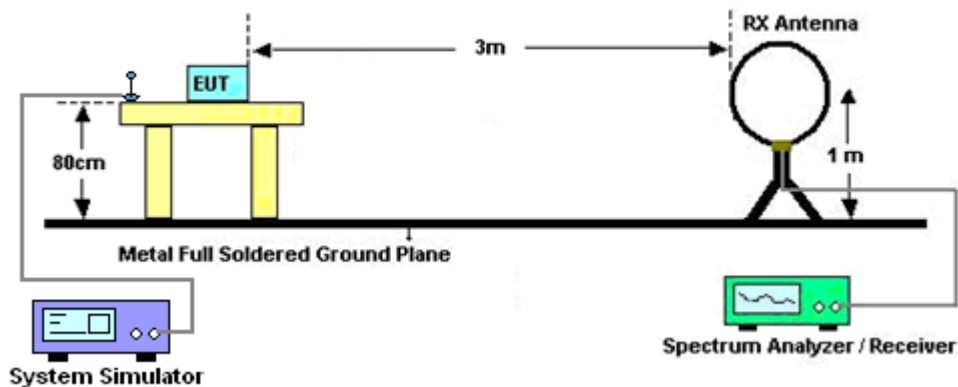
4 Radiated Test Items

4.1 Measuring Instruments

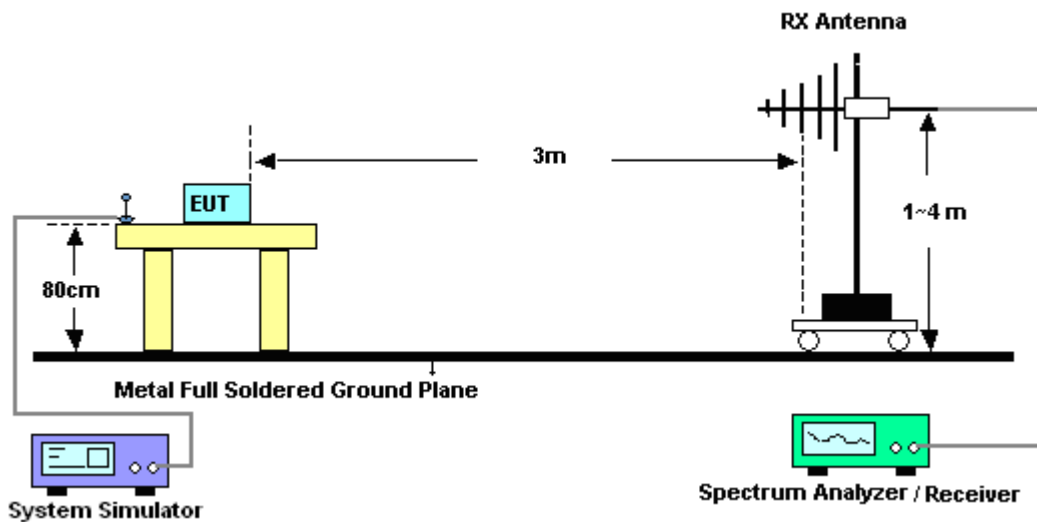
See list of measuring instruments of this test report.

4.2 Test Setup

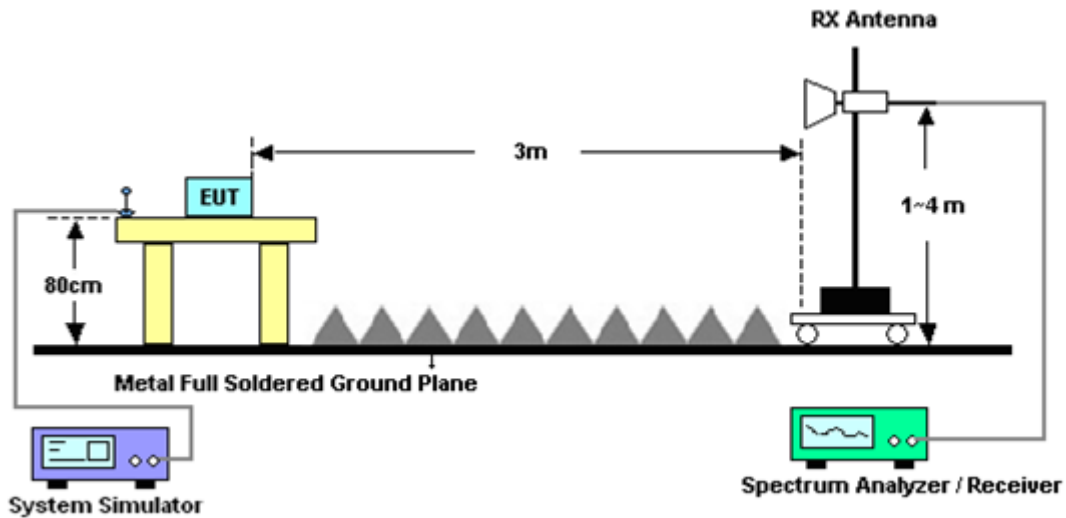
For radiated emissions below 30MHz



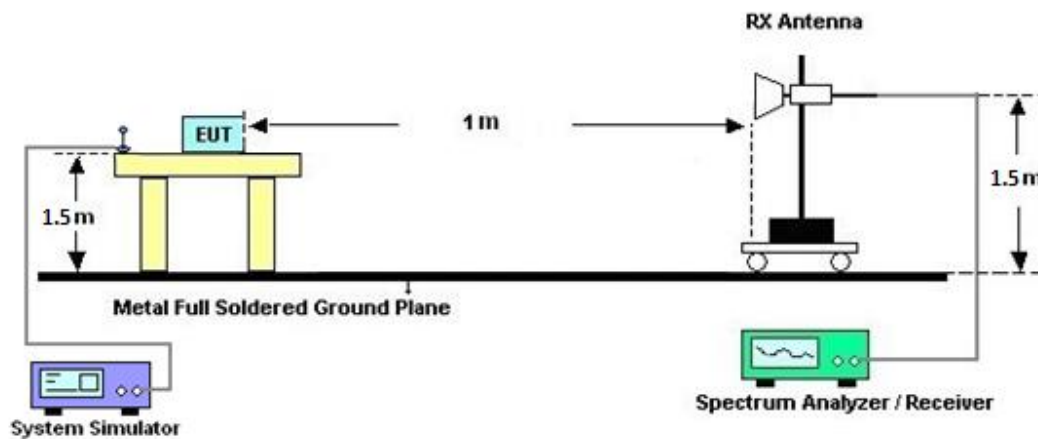
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 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 a comparison data 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 Radiated Spurious Emission

4.4.1 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 -40dBm / MHz .

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 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. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is -40dBm/MHz



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6261849015	LTE	Sep. 18, 2020	Mar. 22, 2021~ Mar. 23, 2021	Sep. 17, 2021	Conducted (TH05-HY)
Base Station(Measure)	Anritsu	MT8821C	62620025341	N/A	Oct. 06, 2020	Mar. 22, 2021~ Mar. 23, 2021	Oct. 05, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Mar. 08, 2021~ Mar. 12, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Mar. 08, 2021~ Mar. 12, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1241	1GHz ~ 18GHz	Jul. 15, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 14, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz~40GHz	Dec. 11, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	May 22, 2020	Mar. 08, 2021~ Mar. 12, 2021	May 21, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Mar. 08, 2021~ Mar. 12, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 05, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Mar. 08, 2021~ Mar. 12, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Mar. 08, 2021~ Mar. 12, 2021	Jan. 30, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Mar. 08, 2021~ Mar. 10, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Mar. 11, 2021~ Mar. 12, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Mar. 08, 2021~ Mar. 12, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Mar. 08, 2021~ Mar. 12, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Mar. 08, 2021~ Mar. 12, 2021	Oct. 01, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.07
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.21
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.80
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power & EIRP)

LTE Band 48 Maximum Average Power [dBm] (GT - LC = -0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.64	22.59	22.54	22.24	0.1675
20	1	49		22.25	22.35	22.60		
20	1	99		22.61	22.43	22.61		
20	50	0		21.22	21.18	21.15		
20	50	24		21.00	20.66	21.01		
20	50	50		20.49	20.72	20.49		
20	100	0		21.07	21.06	21.05		
20	1	0	16-QAM	20.82	21.27	21.54	21.14	0.1300
20	1	49		20.64	21.00	20.62		
20	1	99		20.63	20.75	20.92		
20	50	0		19.72	19.82	19.70		
20	50	24		20.01	19.75	20.10		
20	50	50		19.51	19.71	20.00		
20	100	0		19.57	19.71	19.53		
20	1	0	64-QAM	20.02	19.61	19.43	19.62	0.0916
20	1	49		19.23	19.97	19.78		
20	1	99		19.14	19.23	19.06		
20	50	0		18.73	18.90	18.67		
20	50	24		19.12	18.73	18.56		
20	50	50		18.53	18.70	18.97		
20	100	0		19.10	18.71	19.16		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



LTE Band 48 Maximum Average Power [dBm] (GT - LC = -0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.55	22.53	22.49	22.15	0.1641
15	1	37		22.17	22.29	22.50		
15	1	74		22.55	22.41	22.54		
15	36	0		21.17	21.09	21.05		
15	36	20		20.97	20.58	21.00		
15	36	39		20.39	20.71	20.46		
15	75	0		21.06	20.99	20.98		
15	1	0	16-QAM	20.79	21.21	21.45	21.05	0.1274
15	1	37		20.56	20.91	20.58		
15	1	74		20.62	20.67	20.89		
15	36	0		19.65	19.82	19.65		
15	36	20		19.99	19.70	20.10		
15	36	39		19.48	19.68	19.92		
15	75	0		19.49	19.64	19.50		
15	1	0	64-QAM	20.02	19.51	19.38	19.62	0.0916
15	1	37		19.23	19.93	19.75		
15	1	74		19.14	19.22	19.03		
15	36	0		18.73	18.87	18.58		
15	36	20		19.03	18.65	18.52		
15	36	39		18.45	18.65	18.93		
15	75	0		19.00	18.68	19.09		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



LTE Band 48 Maximum Average Power [dBm] (GT - LC = -0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.59	22.50	22.51	22.21	0.1663
10	1	25		22.21	22.32	22.60		
10	1	49		22.61	22.43	22.51		
10	25	0		21.17	21.10	21.11		
10	25	12		20.92	20.60	20.94		
10	25	25		20.46	20.62	20.44		
10	50	0		21.05	21.02	21.05		
10	1	0	16-QAM	20.79	21.19	21.51	21.11	0.1291
10	1	25		20.59	20.99	20.54		
10	1	49		20.53	20.70	20.86		
10	25	0		19.68	19.75	19.60		
10	25	12		20.00	19.75	20.07		
10	25	25		19.43	19.62	19.92		
10	50	0		19.56	19.69	19.51		
10	1	0	64-QAM	19.97	19.55	19.34	19.57	0.0906
10	1	25		19.22	19.95	19.73		
10	1	49		19.10	19.19	19.04		
10	25	0		18.70	18.87	18.67		
10	25	12		19.12	18.68	18.54		
10	25	25		18.48	18.63	18.89		
10	50	0		19.06	18.70	19.15		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



LTE Band 48 Maximum Average Power [dBm] (GT - LC = -0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.60	22.56	22.45	22.20	0.1660
5	1	12		22.21	22.31	22.50		
5	1	24		22.57	22.38	22.51		
5	12	0		21.12	21.09	21.11		
5	12	7		20.94	20.65	20.91		
5	12	13		20.39	20.63	20.40		
5	25	0		21.01	21.03	21.00		
5	1	0	16-QAM	20.74	21.17	21.48	21.08	0.1282
5	1	12		20.61	20.95	20.52		
5	1	24		20.58	20.66	20.85		
5	12	0		19.67	19.77	19.64		
5	12	7		19.97	19.71	20.01		
5	12	13		19.47	19.63	19.99		
5	25	0		19.51	19.66	19.53		
5	1	0	64-QAM	19.99	19.59	19.42	19.59	0.0910
5	1	12		19.14	19.92	19.75		
5	1	24		19.04	19.22	19.03		
5	12	0		18.70	18.87	18.63		
5	12	7		19.02	18.65	18.51		
5	12	13		18.43	18.60	18.90		
5	25	0		19.07	18.64	19.11		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



Appendix B. Test Results of Radiated Test

LTE Band 48

LTE Band 48 / 20MHz / 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	7100	-56.39	-40	-16.39	-52.13	-66.36	1.77	11.74	H
	10655	-57.36	-40	-17.36	-54.74	-65.79	2.47	10.90	H
	14205	-55.24	-40	-15.24	-57.72	-64.08	2.87	11.71	H
	21306	-52.37	-40	-12.37	-74.19	-69.09	1.98	18.70	H
	24857	-52.39	-40	-12.39	-77.15	-68.40	2.07	18.07	H
	28408	-51.00	-40	-11.00	-76.31	-68.24	2.32	19.56	H
									H
	7100	-58.63	-40	-18.63	-53.98	-68.60	1.77	11.74	V
	10655	-58.60	-40	-18.60	-55.72	-67.03	2.47	10.90	V
	14205	-54.72	-40	-14.72	-56.92	-63.56	2.87	11.71	V
	21306	-54.85	-40	-14.85	-76.53	-71.57	1.98	18.70	V
	24857	-51.30	-40	-11.30	-77.27	-67.31	2.07	18.07	V
	28408	-49.16	-40	-9.16	-76.29	-66.40	2.32	19.56	V
									V



Middle	7230	-59.07	-40	-19.07	-54.96	-68.76	1.84	11.53	H
	10850	-52.12	-40	-12.12	-49.78	-60.45	2.57	10.90	H
	14462	-55.11	-40	-15.11	-57.39	-63.35	2.85	11.09	H
	18080	-44.22	-40	-4.22	-62.16	-60.45	1.76	17.98	H
	21696	-47.77	-40	-7.77	-69.17	-64.56	1.99	18.78	H
	25312	-51.61	-40	-11.61	-76.81	-68.21	2.14	18.74	H
									H
	7230	-59.71	-40	-19.71	-55.34	-69.40	1.84	11.53	V
	10850	-57.24	-40	-17.24	-54.69	-65.57	2.57	10.90	V
	14462	-56.37	-40	-16.37	-57.83	-64.61	2.85	11.09	V
	18080	-50.61	-40	-10.61	-67.62	-66.84	1.76	17.98	V
	21696	-48.54	-40	-8.54	-69.93	-65.33	1.99	18.78	V
	25312	-50.50	-40	-10.50	-76.96	-67.10	2.14	18.74	V
									V
Highest	7360	-56.91	-40	-16.91	-52.65	-66.32	1.91	11.32	H
	11045	-57.38	-40	-17.38	-55.42	-65.70	2.63	10.95	H
	14724	-54.59	-40	-14.59	-57.96	-63.39	2.91	11.72	H
	18405	-45.59	-40	-5.59	-63.87	-61.64	1.87	17.92	H
	22086	-43.27	-40	-3.27	-65.18	-60.06	2.08	18.87	H
	25767	-51.56	-40	-11.56	-77.44	-68.58	2.03	19.05	H
									H
	7360	-56.89	-40	-16.89	-52.44	-66.30	1.91	11.32	V
	11045	-58.11	-40	-18.11	-55.98	-66.43	2.63	10.95	V
	14724	-56.20	-40	-16.20	-57.9	-65.00	2.91	11.72	V
	18405	-56.51	-40	-16.51	-73.91	-72.56	1.87	17.92	V
	22086	-46.14	-40	-6.14	-68.05	-62.93	2.08	18.87	V
	25767	-49.68	-40	-9.68	-76.75	-66.70	2.03	19.05	V
									V

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