



FCC RADIO TEST REPORT

FCC ID : APYHRO00304
Equipment : Smart phone
Brand Name : SHARP
Model Name : APYHRO00304
Applicant : SHARP CORPORATION
1 Takumi-Cho, Sakai-Ku, Sakai-Shi,
Osaka 590-8522, Japan
Manufacturer : SHARP CORPORATION
1 Takumi-Cho, Sakai-Ku, Sakai-Shi,
Osaka 590-8522, Japan
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Sep. 13, 2021 and testing was started from Oct. 10, 2021 and completed on Oct. 14, 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 variant 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
FG190730-01B	01	Initial issue of report	Oct. 28, 2021
FG190730-01B	02	Revise applicant information	Nov. 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	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5)	Pass	
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38)		
-	§24.232 (d)	Peak-to-Average Ratio	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §22.917 (a) §24.238 (a)	Conducted Band Edge Measurement (Band 2) (Band 5)	Not Required	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)		
-	§2.1051 §22.917 (a) §24.238 (a)	Conducted Spurious Emission (Band 2) (Band 5)	Not Required	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Not Required	-
4.2	§2.1053 §22.917 (a) §24.238 (a)	Radiated Spurious Emission (Band 2) (Band 5)	Pass	Under limit 23.71 dB at 10404.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38)		

Note:

- Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by differences between support of WWAN Bands. Since the RF circuit, output power level and antenna performance is the same between the two FCC IDs, all the test cases were performed on original report which can be referred to Sporton Report Number FG190730A. Based on the original report, the test cases were verified.

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: Keven Cheng
Report Producer: Celery Wei



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN <Ant.0>: PIFA Antenna <Ant.1>: PIFA Antenna <Ant.2>: PIFA Antenna WLAN: Loop Antenna Bluetooth: Loop Antenna GPS/Glonass/BDS/Galileo: PIFA Antenna NFC: Loop Antenna
Antenna Gain	Band 2: -0.8dBi Band 5: -5.35dBi Band 7: -2.84dBi Band 38: -3.21dBi

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

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.	
	TH03-HY	03CH07-HY
Test Engineer	Benjamin Lin	Jesse Wang, Stan Hsieh and Ken Wu
Temperature	23.9~24.5°C	23.3~25.8°C
Relative Humidity	48.3~51.2%	48~59%

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

FCC Designation No.: TW1190

1.4 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
- ♦ 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. 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

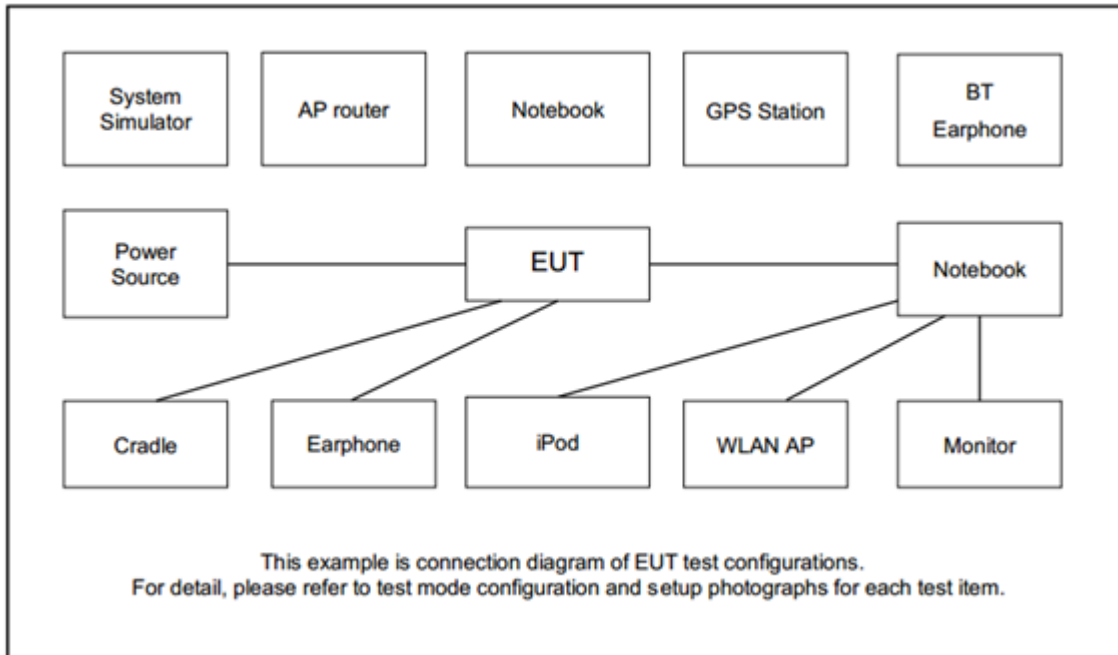
2.1 Test Mode

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 X Plane for LTE Band 2; Y Plane for LTE Band 5, 7, 38 as worst plane.

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	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	Max. Power					
	5	v	v	v	v	-	-	v	v	v						
	7	-	-	v	v	v	v	v	v	v						
	38	-	-	v	v	v	v	v	v	v						
Radiated Spurious Emission	2						v	v			v				v	
	5	-	-		v	-		v			v				v	
	7	-	-				v	v			v					v
	38	-	-				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	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Nokia	WH-108	N/A	Unshielded, 1.5m	N/A

2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

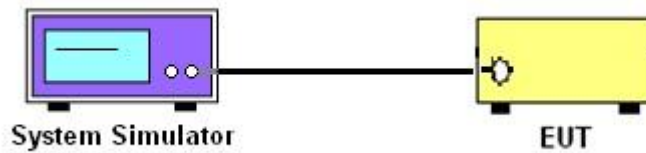
3 Conducted Test Items

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 and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7 and Band 38

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 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.

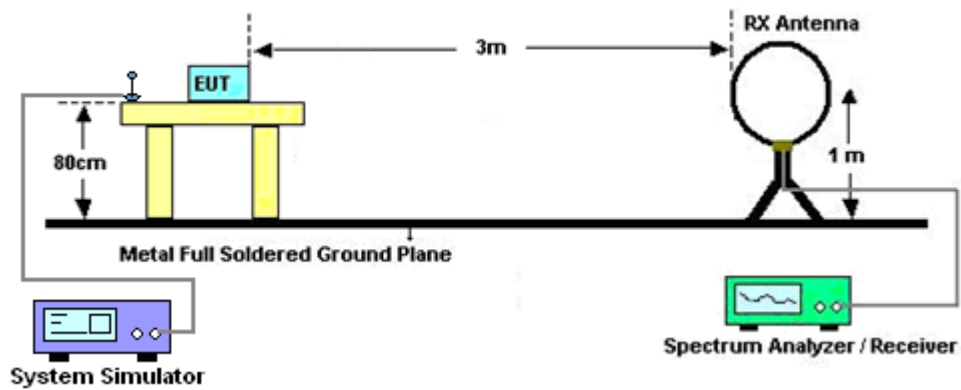
4 Radiated Test Items

4.1 Measuring Instruments

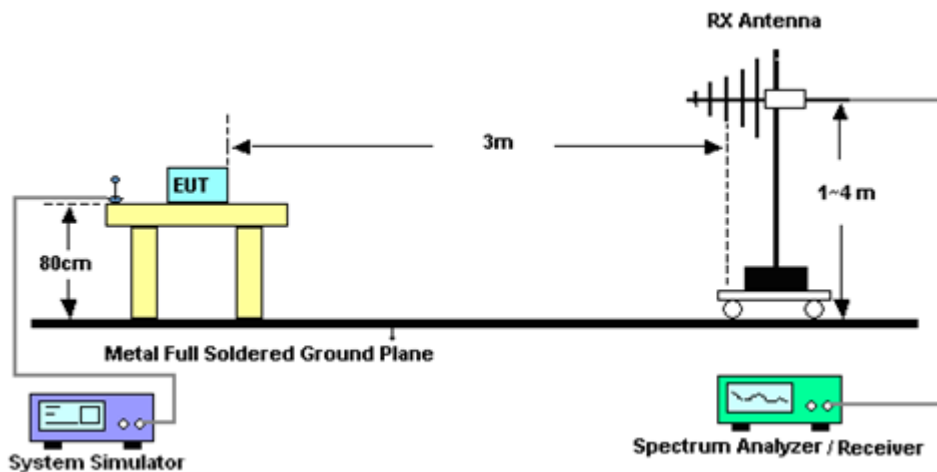
See list of measuring instruments of this test report.

4.1.1 Test Setup

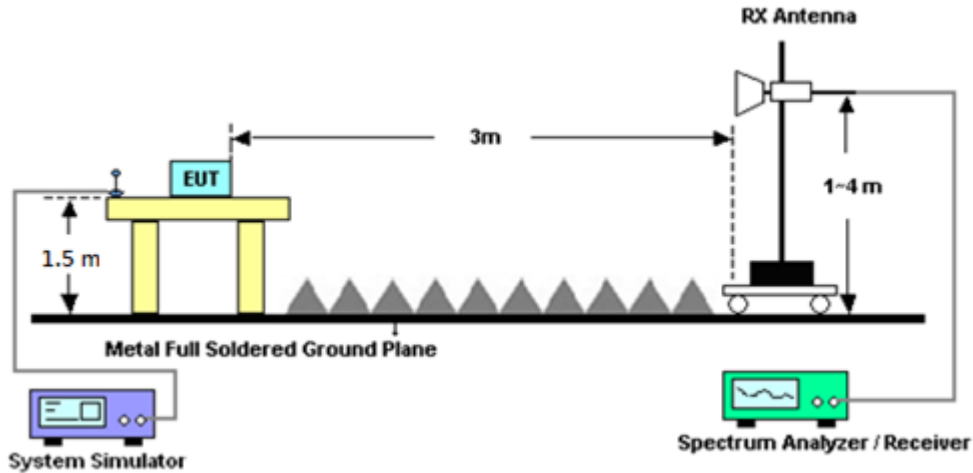
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



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 $43 + 10 \log (P)$ dB.

For LTE Band 7, 38

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 $55 + 10 \log (P)$ 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 for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above 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 the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the 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. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

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

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



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	Schaffner	CBL 6111C & N-6-06	2725 & AT-N0601	30MHz~1GHz	Jan. 08, 2021	Oct. 10, 2021~ Oct. 12, 2021	Jan. 07, 2022	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 28, 2021	Oct. 10, 2021~ Oct. 12, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2020	Oct. 10, 2021~ Oct. 12, 2021	Nov. 30, 2021	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Oct. 10, 2021~ Oct. 12, 2021	Jan. 03, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101 800-30-10P	1590075	1GHz~18GHz	Apr. 22, 2021	Oct. 10, 2021~ Oct. 12, 2021	Apr. 21, 2022	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 18, 2021	Oct. 10, 2021~ Oct. 12, 2021	May 17, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Oct. 10, 2021~ Oct. 12, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 23, 2021	Oct. 10, 2021~ Oct. 12, 2021	Jul. 22, 2022	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2021	Oct. 10, 2021~ Oct. 12, 2021	Jul. 21, 2022	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477219	3GHz High Pass Filter	Oct. 31, 2020	Oct. 10, 2021~ Oct. 12, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682-4	30MHz to 18GHz	Feb. 24, 2021	Oct. 10, 2021~ Oct. 12, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971-4	9kHz to 18GHz	Feb. 24, 2021	Oct. 10, 2021~ Oct. 12, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655-4	9kHz to 18GHz	Feb. 24, 2021	Oct. 10, 2021~ Oct. 12, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 24, 2021	Oct. 10, 2021~ Oct. 12, 2021	Feb. 23, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Oct. 10, 2021~ Oct. 12, 2021	Sep. 16, 2022	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	Apr. 28, 2021	Oct. 10, 2021~ Oct. 12, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Oct. 10, 2021~ Oct. 12, 2021	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	Apr. 28, 2021	Oct. 10, 2021~ Oct. 12, 2021	Apr. 27, 2022	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 10, 2021~ Oct. 12, 2021	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Oct. 10, 2021~ Oct. 12, 2021	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 09, 2021	Oct. 10, 2021~ Oct. 12, 2021	Mar. 08, 2022	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Jan. 26, 2021	Oct. 10, 2021~ Oct. 12, 2021	Jan. 25, 2022	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Dec. 02, 2020	Oct. 10, 2021~ Oct. 12, 2021	Dec. 01, 2021	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 04, 2020	Oct. 10, 2021~ Oct. 12, 2021	Dec. 03, 2021	Radiation (03CH07-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Oct. 05, 2021	Oct. 14, 2021	Oct. 04, 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% ($U = 2Uc(y)$)	3.16 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.71 dB
-------------------------------------------------------------------------	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.16 dB
-------------------------------------------------------------------------	---------



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.90	23.16	22.78	22.36	0.1722
20	1	49		22.65	22.95	22.82		
20	1	99		22.92	22.95	22.81		
20	50	0		22.07	22.11	22.09		
20	50	24		21.94	22.05	22.01		
20	50	50		22.02	22.01	22.00		
20	100	0		21.84	21.97	22.03		
20	1	0	16-QAM	22.28	22.29	22.36	21.57	0.1435
20	1	49		21.93	22.37	22.16		
20	1	99		22.33	22.31	22.18		
20	50	0		21.00	21.06	21.10		
20	50	24		20.89	21.06	21.01		
20	50	50		21.07	20.95	20.95		
20	100	0		20.94	21.01	21.03		
20	1	0	64-QAM	20.57	21.22	21.23	20.43	0.1104
20	1	49		20.16	21.23	21.05		
20	1	99		20.98	21.05	20.95		
20	50	0		19.72	20.06	20.08		
20	50	24		19.13	20.01	20.01		
20	50	50		19.28	20.05	20.03		
20	100	0		19.09	20.03	20.01		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.80	22.05	22.87	22.11	0.1626
15	1	37		22.35	22.91	22.85		
15	1	74		22.72	22.90	22.73		
15	36	0		21.91	22.01	22.06		
15	36	20		21.59	22.06	21.92		
15	36	39		21.79	22.01	21.96		
15	75	0		21.65	22.08	22.03		
15	1	0	16-QAM	22.17	22.46	22.26	21.66	0.1466
15	1	37		21.73	22.36	22.19		
15	1	74		22.15	22.37	22.28		
15	36	0		20.95	21.04	21.07		
15	36	20		20.68	21.01	21.00		
15	36	39		20.84	21.01	20.97		
15	75	0		20.66	21.14	21.03		
15	1	0	64-QAM	20.34	21.24	21.22	20.44	0.1107
15	1	37		19.87	21.21	21.18		
15	1	74		20.30	21.20	21.05		
15	36	0		19.56	20.09	20.07		
15	36	20		18.83	20.07	20.07		
15	36	39		19.04	20.06	20.04		
15	75	0		18.82	20.04	20.06		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.82	23.05	23.00	22.25	0.1679
10	1	25		22.26	23.01	22.99		
10	1	49		22.82	22.96	23.00		
10	25	0		22.02	22.11	22.09		
10	25	12		21.49	22.08	22.06		
10	25	25		21.79	22.02	21.97		
10	50	0		21.60	22.15	22.03		
10	1	0	16-QAM	22.23	22.37	22.32	21.64	0.1459
10	1	25		21.67	22.44	22.31		
10	1	49		22.14	22.32	22.29		
10	25	0		21.10	21.15	21.12		
10	25	12		20.61	21.15	21.11		
10	25	25		20.89	21.03	21.07		
10	50	0		20.68	21.11	21.14		
10	1	0	64-QAM	20.57	21.43	21.28	20.63	0.1156
10	1	25		19.72	21.33	21.14		
10	1	49		20.44	21.20	21.21		
10	25	0		19.53	20.18	20.19		
10	25	12		18.75	20.20	20.12		
10	25	25		19.07	20.11	20.08		
10	50	0		18.85	20.15	20.07		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.77	23.01	22.99	22.22	0.1667
5	1	12		22.79	23.02	22.99		
5	1	24		22.98	23.00	23.01		
5	12	0		21.83	22.17	22.07		
5	12	7		21.88	22.10	22.09		
5	12	13		22.03	22.02	21.97		
5	25	0		21.91	22.03	22.05		
5	1	0	16-QAM	22.14	22.49	22.34	21.69	0.1476
5	1	12		22.03	22.49	22.30		
5	1	24		22.35	22.34	22.25		
5	12	0		20.93	21.23	21.17		
5	12	7		20.99	21.14	21.15		
5	12	13		21.03	21.05	20.99		
5	25	0		21.10	21.17	21.03		
5	1	0	64-QAM	20.35	21.25	21.26	20.46	0.1112
5	1	12		20.37	21.23	21.19		
5	1	24		20.72	21.16	21.13		
5	12	0		19.32	20.17	20.19		
5	12	7		19.47	20.13	20.16		
5	12	13		19.58	20.04	20.01		
5	25	0		19.44	20.10	20.05		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.78	23.00	23.04	22.24	0.1675
3	1	8		22.77	23.03	22.96		
3	1	14		22.76	23.04	22.95		
3	8	0		21.81	22.19	22.10		
3	8	4		21.83	22.20	22.07		
3	8	7		21.85	22.16	21.97		
3	15	0		21.85	22.11	22.03		
3	1	0	16-QAM	22.08	22.46	22.38	21.79	0.1510
3	1	8		22.18	22.59	22.35		
3	1	14		22.09	22.40	22.21		
3	8	0		20.98	21.18	21.13		
3	8	4		20.96	21.23	21.07		
3	8	7		20.99	21.15	20.97		
3	15	0		20.96	21.13	21.11		
3	1	0	64-QAM	20.25	21.26	21.31	20.60	0.1148
3	1	8		20.48	21.40	21.26		
3	1	14		20.47	21.28	21.22		
3	8	0		19.32	20.27	20.18		
3	8	4		19.38	20.32	20.17		
3	8	7		19.44	20.17	20.06		
3	15	0		19.39	20.13	20.06		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.53	23.05	22.83	22.29	0.1694
1.4	1	3		22.59	23.05	23.07		
1.4	1	5		22.55	22.95	22.78		
1.4	3	0		22.46	23.09	23.00		
1.4	3	1		22.58	23.01	23.01		
1.4	3	3		22.59	22.97	22.85		
1.4	6	0		21.70	22.10	21.96		
1.4	1	0	16-QAM	21.83	22.44	22.28	21.67	0.1469
1.4	1	3		21.91	22.47	22.36		
1.4	1	5		21.82	22.32	22.24		
1.4	3	0		21.67	22.12	22.00		
1.4	3	1		21.67	22.21	22.12		
1.4	3	3		21.68	22.08	21.97		
1.4	6	0		20.75	21.24	21.08		
1.4	1	0	64-QAM	19.98	21.43	21.16	20.63	0.1156
1.4	1	3		20.14	21.41	21.17		
1.4	1	5		20.14	21.26	21.19		
1.4	3	0		20.00	21.33	21.15		
1.4	3	1		20.15	21.23	21.12		
1.4	3	3		20.07	21.28	21.08		
1.4	6	0		18.98	20.06	20.01		
Limit	EIRP < 2W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -5.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.55	23.30	23.18	16.05	0.0403
10	1	25		23.42	23.25	23.38		
10	1	49		23.22	23.33	23.20		
10	25	0		22.43	22.23	22.29		
10	25	12		22.50	22.39	22.39		
10	25	25		22.34	22.33	22.37		
10	50	0		22.49	22.31	22.32		
10	1	0	16-QAM	22.90	22.67	22.46	15.51	0.0356
10	1	25		23.01	22.70	22.67		
10	1	49		22.79	22.80	22.68		
10	25	0		21.49	21.35	21.40		
10	25	12		21.49	21.47	21.40		
10	25	25		21.50	21.47	21.34		
10	50	0		21.46	21.44	21.35		
10	1	0	64-QAM	21.65	21.30	21.26	14.20	0.0263
10	1	25		21.53	21.67	21.44		
10	1	49		21.68	21.56	21.70		
10	25	0		20.48	20.47	20.33		
10	25	12		20.52	20.53	20.41		
10	25	25		20.45	20.58	20.47		
10	50	0		20.49	20.42	20.41		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -5.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.53	23.46	23.33	16.03	0.0401
5	1	12		23.43	23.44	23.29		
5	1	24		23.41	23.40	23.25		
5	12	0		22.48	22.38	22.24		
5	12	7		22.44	22.46	22.29		
5	12	13		22.41	22.46	22.29		
5	25	0		22.44	22.41	22.28		
5	1	0	16-QAM	22.90	22.75	22.63	15.40	0.0347
5	1	12		22.65	22.70	22.48		
5	1	24		22.73	22.79	22.61		
5	12	0		21.55	21.44	21.32		
5	12	7		21.48	21.51	21.22		
5	12	13		21.45	21.43	21.29		
5	25	0		21.44	21.44	21.21		
5	1	0	64-QAM	21.68	21.49	21.44	14.18	0.0262
5	1	12		21.55	21.50	21.38		
5	1	24		21.59	21.62	21.43		
5	12	0		20.60	20.41	20.34		
5	12	7		20.59	20.52	20.26		
5	12	13		20.49	20.52	20.30		
5	25	0		20.49	20.35	20.23		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -5.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.49	23.35	23.37	16.02	0.0400
3	1	8		23.52	23.45	23.29		
3	1	14		23.49	23.35	23.24		
3	8	0		22.49	22.36	22.27		
3	8	4		22.48	22.43	22.24		
3	8	7		22.45	22.45	22.31		
3	15	0		22.40	22.31	22.29		
3	1	0	16-QAM	22.75	22.71	22.54	15.38	0.0345
3	1	8		22.88	22.79	22.65		
3	1	14		22.68	22.78	22.49		
3	8	0		21.48	21.42	21.35		
3	8	4		21.59	21.54	21.29		
3	8	7		21.53	21.40	21.26		
3	15	0		21.48	21.34	21.31		
3	1	0	64-QAM	21.66	21.56	21.52	14.20	0.0263
3	1	8		21.70	21.64	21.41		
3	1	14		21.66	21.63	21.47		
3	8	0		20.54	20.42	20.32		
3	8	4		20.58	20.46	20.32		
3	8	7		20.51	20.47	20.37		
3	15	0		20.57	20.43	20.35		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -5.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.23	23.14	23.08	15.97	0.0395
1.4	1	3		23.47	23.27	23.09		
1.4	1	5		23.27	23.18	23.04		
1.4	3	0		23.41	23.26	23.20		
1.4	3	1		23.37	23.42	23.18		
1.4	3	3		23.29	23.30	23.23		
1.4	6	0		22.41	22.29	22.23		
1.4	1	0	16-QAM	22.76	22.57	22.48	15.26	0.0336
1.4	1	3		22.62	22.69	22.53		
1.4	1	5		22.61	22.55	22.47		
1.4	3	0		22.37	22.32	22.24		
1.4	3	1		22.40	22.40	22.18		
1.4	3	3		22.38	22.40	22.16		
1.4	6	0		21.53	21.38	21.21		
1.4	1	0	64-QAM	21.68	21.53	21.43	14.18	0.0262
1.4	1	3		21.65	21.49	21.47		
1.4	1	5		21.57	21.48	21.31		
1.4	3	0		21.48	21.34	21.29		
1.4	3	1		21.58	21.50	21.37		
1.4	3	3		21.60	21.52	21.37		
1.4	6	0		20.37	20.34	20.23		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.00	22.65	22.55	20.16	0.1038
20	1	49		22.89	22.65	22.74		
20	1	99		22.78	22.80	22.81		
20	50	0		21.97	21.84	21.78		
20	50	24		22.08	21.89	21.93		
20	50	50		21.89	21.90	21.94		
20	100	0		21.92	21.81	21.90		
20	1	0	16-QAM	22.11	21.90	22.04	19.38	0.0867
20	1	49		22.22	21.88	22.14		
20	1	99		22.15	22.10	22.21		
20	50	0		21.13	20.81	20.85		
20	50	24		21.05	20.87	20.87		
20	50	50		20.85	20.83	20.92		
20	100	0		20.81	20.91	20.88		
20	1	0	64-QAM	21.00	20.84	20.80	18.36	0.0685
20	1	49		21.20	20.95	20.96		
20	1	99		20.96	21.01	21.00		
20	50	0		20.05	19.84	19.90		
20	50	24		20.04	19.86	19.92		
20	50	50		20.03	19.81	19.97		
20	100	0		19.84	19.86	19.74		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.86	22.62	22.72	20.08	0.1019
15	1	37		22.83	22.61	22.76		
15	1	74		22.92	22.79	22.88		
15	36	0		21.96	21.90	21.83		
15	36	20		22.00	21.90	21.95		
15	36	39		22.02	21.95	22.01		
15	75	0		22.01	21.93	21.93		
15	1	0	16-QAM	22.22	22.07	22.08	19.40	0.0871
15	1	37		22.21	21.97	22.04		
15	1	74		22.20	22.12	22.24		
15	36	0		21.05	20.88	20.83		
15	36	20		21.00	20.87	20.94		
15	36	39		20.96	20.86	21.00		
15	75	0		21.04	20.93	20.88		
15	1	0	64-QAM	21.08	20.85	20.91	18.24	0.0667
15	1	37		21.04	20.96	21.07		
15	1	74		21.04	21.01	21.04		
15	36	0		20.07	19.87	19.90		
15	36	20		20.01	19.94	19.99		
15	36	39		20.01	19.96	19.99		
15	75	0		19.99	19.86	19.90		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.85	22.81	22.84	20.04	0.1009
10	1	25		22.86	22.77	22.87		
10	1	49		22.88	22.87	22.88		
10	25	0		22.17	21.93	21.96		
10	25	12		22.15	22.00	22.04		
10	25	25		22.03	22.00	22.07		
10	50	0		22.02	21.92	22.01		
10	1	0	16-QAM	22.30	22.09	22.24	19.55	0.0902
10	1	25		22.33	22.21	22.34		
10	1	49		22.39	22.23	22.33		
10	25	0		21.21	21.00	20.94		
10	25	12		21.21	21.01	20.98		
10	25	25		21.07	20.99	21.10		
10	50	0		21.11	21.00	20.97		
10	1	0	64-QAM	21.28	21.03	21.08	18.45	0.0700
10	1	25		21.23	21.06	21.19		
10	1	49		21.25	21.19	21.29		
10	25	0		20.17	19.96	19.97		
10	25	12		20.17	20.08	20.02		
10	25	25		20.11	20.06	20.09		
10	50	0		20.11	20.01	20.05		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -2.84 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.82	22.81	22.82	20.08	0.1019
5	1	12		22.92	22.86	22.87		
5	1	24		22.90	22.80	22.82		
5	12	0		22.09	21.87	21.90		
5	12	7		22.13	22.05	22.07		
5	12	13		22.17	22.01	22.07		
5	25	0		22.11	21.97	21.95		
5	1	0	16-QAM	22.36	22.19	22.21	19.64	0.0920
5	1	12		22.48	22.18	22.41		
5	1	24		22.43	22.21	22.42		
5	12	0		21.16	20.93	20.99		
5	12	7		21.20	21.00	21.07		
5	12	13		21.25	21.09	21.11		
5	25	0		21.19	20.99	21.01		
5	1	0	64-QAM	21.23	21.14	21.21	18.48	0.0705
5	1	12		21.17	21.04	21.09		
5	1	24		21.32	21.21	21.30		
5	12	0		20.11	19.98	19.97		
5	12	7		20.22	20.10	20.08		
5	12	13		20.27	20.03	20.13		
5	25	0		20.17	19.96	20.02		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -3.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.00	22.90	23.06	19.92	0.0982
20	1	49		23.11	23.13	23.10		
20	1	99		23.04	23.05	23.13		
20	50	0		21.99	22.09	22.04		
20	50	24		22.10	22.06	22.12		
20	50	50		22.13	22.22	22.21		
20	100	0		22.05	22.06	22.09		
20	1	0	16-QAM	22.00	22.06	22.19	19.01	0.0796
20	1	49		22.05	22.20	22.15		
20	1	99		22.16	22.22	22.22		
20	50	0		21.00	21.12	21.14		
20	50	24		21.15	21.09	21.21		
20	50	50		21.12	21.18	21.18		
20	100	0		21.11	21.11	21.18		
20	1	0	64-QAM	20.82	20.80	20.92	17.77	0.0598
20	1	49		20.98	20.97	20.96		
20	1	99		20.96	20.89	20.90		
20	50	0		20.02	20.11	20.10		
20	50	24		20.15	20.21	20.12		
20	50	50		20.10	20.18	20.22		
20	100	0		20.07	20.09	20.14		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -3.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.95	23.01	23.00	19.92	0.0982
15	1	37		22.98	22.98	23.10		
15	1	74		22.96	23.06	23.13		
15	36	0		21.94	22.03	22.10		
15	36	20		22.03	22.16	22.19		
15	36	39		22.07	22.11	22.12		
15	75	0		22.03	22.12	22.05		
15	1	0	16-QAM	22.08	22.09	22.25	19.12	0.0817
15	1	37		22.04	22.18	22.18		
15	1	74		22.21	22.10	22.33		
15	36	0		20.92	21.05	21.05		
15	36	20		21.08	21.10	21.10		
15	36	39		21.06	21.13	21.18		
15	75	0		21.06	21.00	21.15		
15	1	0	64-QAM	20.65	20.62	20.86	17.79	0.0601
15	1	37		20.86	20.88	20.99		
15	1	74		20.84	20.95	21.00		
15	36	0		19.88	20.17	20.16		
15	36	20		19.99	20.09	20.10		
15	36	39		20.00	20.13	20.10		
15	75	0		20.08	20.10	20.09		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -3.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.05	23.09	23.12	19.91	0.0979
10	1	25		23.12	23.10	23.11		
10	1	49		23.12	23.12	23.11		
10	25	0		22.11	22.19	22.22		
10	25	12		22.14	22.23	22.20		
10	25	25		22.06	22.20	22.19		
10	50	0		22.06	22.14	22.24		
10	1	0	16-QAM	22.16	22.29	22.23	19.08	0.0809
10	1	25		22.01	22.17	22.20		
10	1	49		22.16	22.22	22.22		
10	25	0		21.14	21.18	21.20		
10	25	12		21.16	21.24	21.31		
10	25	25		21.14	21.24	21.34		
10	50	0		21.17	21.15	21.20		
10	1	0	64-QAM	20.87	20.94	21.00	17.88	0.0614
10	1	25		20.90	21.05	21.07		
10	1	49		20.96	21.09	21.02		
10	25	0		20.22	20.21	20.34		
10	25	12		20.15	20.28	20.34		
10	25	25		20.18	20.35	20.29		
10	50	0		20.22	20.20	20.28		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -3.21 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.06	23.10	23.12	19.91	0.0979
5	1	12		23.10	23.10	23.04		
5	1	24		23.05	23.05	23.06		
5	12	0		22.10	22.16	22.26		
5	12	7		22.09	22.26	22.22		
5	12	13		22.11	22.23	22.22		
5	25	0		22.04	22.10	22.21		
5	1	0	16-QAM	22.17	22.26	22.27	19.10	0.0813
5	1	12		22.17	22.31	22.23		
5	1	24		22.13	22.28	22.28		
5	12	0		21.08	21.05	21.19		
5	12	7		21.07	21.25	21.25		
5	12	13		21.01	21.26	21.22		
5	25	0		21.09	21.18	21.28		
5	1	0	64-QAM	20.95	20.96	21.03	17.92	0.0619
5	1	12		20.93	21.10	21.08		
5	1	24		20.90	21.13	21.02		
5	12	0		20.06	20.20	20.30		
5	12	7		20.18	20.33	20.34		
5	12	13		20.11	20.29	20.24		
5	25	0		20.15	20.16	20.34		
Limit	EIRP < 2W			Result			Pass	



Appendix B. Test Results of Radiated Test

LTE Band 2

LTE Band 2 / 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)
Middle	3744	-57.99	-13	-44.99	-78.73	-64.6	1.68	8.29	H
	5616	-50.35	-13	-37.35	-75.87	-57.4	2.69	9.75	H
	7482	-54.77	-13	-41.77	-81.56	-64.1	2.44	11.76	H
									H
									H
									H
									H
	3744	-57.49	-13	-44.49	-78.11	-64.1	1.68	8.29	V
	5616	-49.65	-13	-36.65	-74.76	-56.7	2.69	9.75	V
	7482	-53.97	-13	-40.97	-81.19	-63.3	2.44	11.76	V
									V
									V
									V
									V

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



LTE Band 5

LTE Band 5 / 10MHz / QPSK									
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)
Middle	1664	-62.58	-13	-49.58	-74.68	-64.29	0.98	4.84	H
	2496	-52.88	-13	-39.88	-70.07	-54.83	1.29	5.39	H
	3328	-57.51	-13	-44.51	-77.06	-61.05	1.55	7.24	H
									H
									H
									H
									H
	1664	-62.82	-13	-49.82	-75.32	-64.53	0.98	4.84	V
	2496	-55.13	-13	-42.13	-72.71	-57.08	1.29	5.39	V
	3328	-57.48	-13	-44.48	-77.2	-61.02	1.55	7.24	V
									V
									V
									V
									V

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



LTE Band 7

LTE Band 7 / 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)
Highest	5100	-55.92	-25	-30.92	-80.13	-63.23	2.39	9.70	H
	7656	-50.55	-25	-25.55	-78.14	-60.06	2.38	11.89	H
	10206	-48.85	-25	-23.85	-80.86	-58.44	2.70	12.28	H
									H
									H
									H
									H
	5100	-55.11	-25	-30.11	-79.13	-62.42	2.39	9.70	V
	7656	-50.64	-25	-25.64	-78.49	-60.15	2.38	11.89	V
	10206	-49.07	-25	-24.07	-80.99	-58.66	2.70	12.28	V
									V
									V
									V
									V

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



LTE Band 38

LTE Band 38 / 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)
Highest	5202	-55.64	-25	-30.64	-80.12	-62.89	2.45	9.70	H
	7800	-52.97	-25	-27.97	-80.81	-62.62	2.33	11.98	H
	10404	-48.71	-25	-23.71	-81.35	-58.38	2.69	12.36	H
									H
									H
									H
									H
	5202	-54.08	-25	-29.08	-78.47	-61.33	2.45	9.70	V
	7800	-51.76	-25	-26.76	-79.89	-61.41	2.33	11.98	V
	10404	-48.86	-25	-23.86	-81.25	-58.53	2.69	12.36	V
									V
									V
									V
									V

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