



FCC RF Test Report

APPLICANT : Viavi Solutions Inc.
EQUIPMENT : 5G Sub-6 GHz M.2 Module with WCDMA and LTE
BRAND NAME : VIAVI
MODEL NAME : RM520N-GL
FCC ID : WUW-RM520NGL
STANDARD : 47 CFR Part 27(M), 27(H), 27(F) , 27(N)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jul. 30, 2024

The product was installed into a host (Brand Name: VIAVI, Model Name: NXE-DEVICE-4M) during the test, only Conducted Power, ERP/EIRP and RSE test items are tested in this report.

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG452001C	Rev. 01	Initial issue of report	Dec. 18, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.3	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	-	Report Only	1
-	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
-	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 7.75 dB at 2120.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Remark 1: Test results are leveraged from module RF report No "SEWA2204000008RG01"

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

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



1 General Description

1.1 Applicant

Viavi Solutions Inc.

1445 South Spectrum Boulevard, Suite 102, Chandler, Arizona 85286

1.2 Manufacturer

Viavi Solutions Inc.

1445 South Spectrum Boulevard, Suite 102, Chandler, Arizona 85286

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Sub-6 GHz M.2 Module with WCDMA and LTE
Brand Name	VIAVI
Model Name	RM520N-GL
FCC ID	WUW-RM520NGL
EUT Stage	Identical Prototype

Host Product Feature	
Equipment	XEDGE 2.0
Brand Name	VIAVI
Model Name	NXE-DEVICE-4M
IMEI Code	Conducted : IMEI A: 868371051639645 IMEI B: 868371051635213 IMEI C: 868371051635338 IMEI D: 868371051639819 Radiation : IMEI A: 868371051120539 IMEI B: 868371051121032 IMEI C: 868371051143184 IMEI D: 868371051635312
Applicant	Viavi Solutions Inc. 1445 South Spectrum Boulevard, Suite 102, Chandler, Arizona 85286
Manufacturer	Viavi Solutions Inc. 1445 South Spectrum Boulevard, Suite 102, Chandler, Arizona 85286

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 617 MHz ~ 652 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Module A> <Ant.0> LTE Band 7 : 19.16 dBm LTE Band 7C : 19.00 dBm LTE Band 13 : 23.12 dBm LTE Band 12 : 23.48 dBm LTE Band 17 : 23.42 dBm LTE Band 38 : 21.84 dBm LTE Band 38C : 21.66 dBm LTE Band 41 : 21.87 dBm LTE Band 41C : 21.77 dBm LTE Band 71 : 22.89 dBm <Ant.2> LTE Band 7 : 19.42 dBm < Module B> <Ant.0> LTE Band 7 : 19.12 dBm LTE Band 7C : 18.99 dBm LTE Band 13 : 23.40 dBm LTE Band 12 : 23.83 dBm LTE Band 17 : 23.33 dBm LTE Band 38 : 22.24 dBm LTE Band 38C : 22.14 dBm LTE Band 41 : 22.31 dBm LTE Band 41C : 22.21 dBm LTE Band 71 : 22.79 dBm <Ant.2> LTE Band 7 : 19.17 dBm < Module C>



	<Ant.0> LTE Band 7 : 19.26 dBm LTE Band 7C : 19.09 dBm LTE Band 13 : 23.25 dBm LTE Band 12 : 23.40 dBm LTE Band 17 : 23.39 dBm LTE Band 38 : 21.89 dBm LTE Band 38C : 21.76 dBm LTE Band 41 : 21.91 dBm LTE Band 41C : 21.78 dBm LTE Band 71 : 22.83 dBm <Ant.2> LTE Band 7 : 19.18 dBm < Module D> <Ant.0> LTE Band 7 : 19.13 dBm LTE Band 7C : 18.95 dBm LTE Band 13 : 23.06 dBm LTE Band 12 : 23.67 dBm LTE Band 17 : 23.61 dBm LTE Band 38 : 21.80 dBm LTE Band 38C : 21.71 dBm LTE Band 41 : 21.81 dBm LTE Band 41C : 21.62 dBm LTE Band 71 : 22.83 dBm <Ant.2> LTE Band 7 : 19.33 dBm
Antenna Gain	< Module A/B/C/D> <Ant.0> LTE Band 7/38/41 : 8.5 dBi LTE Band 12/13/17 : 6.0 dBi LTE Band 71 : 5.3 dBi <Ant.2> LTE Band 7 : 8.5 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 0 for Band12(Module B)/13(Module B)/17(Module D)/38(Module B)/41(Module B)/71(Module A)/7C(Module C)/38C(Module B)/41C(Module B), Antenna 2 for LTE Band 7(Module A) are shown in the report.
2. The four Modules are the same include Power setting, but we still verified the real power, which is within the uncertainty range, so we chose the module of the higher power for testing, each Module has four antennas, only Ant.0/2 supports TX/RX function, the others are RX only.
3. For RSE testing, we choice the module of the higher conducted Power to test, because between four modules do not support MIMO mode.
4. LTE Band 38/41 support HPUE mode.

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power

LTE Band 7		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.5794	-	0.5585	-
10	2505.0 ~ 2565.0	0.5808	-	0.5470	-
15	2507.5 ~ 2562.5	0.5649	-	0.5508	-
20	2510.0 ~ 2560.0	0.6194	-	0.6081	-
LTE Band 12		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.5754	-	0.4656	-
3	700.5 ~ 714.5	0.5636	-	0.4571	-
5	701.5 ~ 713.5	0.5662	-	0.4529	-
10	704.0 ~ 711.0	0.5861	-	0.4699	-
LTE Band 13		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.5176	-	0.4083	-
10	782.0	0.5309	-	0.4207	-
LTE Band 17		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	706.5 ~ 713.5	0.5483	-	0.4355	-
10	709.0 ~ 711.0	0.5572	-	0.4416	-
LTE Band 38		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	1.1641	-	1.1455	-
10	2575.0 ~ 2615.0	1.1641	-	1.1482	-
15	2577.5 ~ 2612.5	1.1641	-	1.1508	-
20	2580.0 ~ 2610.0	1.1858	-	1.1588	-



LTE Band 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	1.1668	-	1.1614	-
10	2501.0 ~ 2685.0	1.1776	-	1.1695	-
15	2503.5 ~ 2682.5	1.1940	-	1.1535	-
20	2506.0 ~ 2680.0	1.2050	-	1.1722	-
LTE Band 71		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.3899	-	0.3192	-
10	668.0 ~ 693.0	0.3890	-	0.3133	-
15	670.5 ~ 690.5	0.3936	-	0.3148	-
20	673.0 ~ 688.0	0.4018	-	0.3221	-
LTE Band 7 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz		0.5649	-	0.5495	-
15MHz+15MHz		0.5508	-	0.5433	-
15MHz+20MHz		0.5689	-	0.5470	-
15MHz+10MHz		0.5572	-	0.5623	-
20MHz+10MHz		0.5559	-	0.5483	-
20MHz+15MHz		0.5715	-	0.5610	-
20MHz+20MHz		0.5741	-	0.5689	-
LTE Band 38 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
15MHz+15MHz		1.1482	-	1.1169	-
20MHz+20MHz		1.1588	-	1.1220	-



LTE Band 41 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz	1.1749	-	1.1324	-
10MHz+20MHz	1.1482	-	1.1350	-
10MHz+15MHz	1.1695	-	1.1402	-
15MHz+15MHz	1.1641	-	1.1482	-
15MHz+20MHz	1.1376	-	1.1298	-
15MHz+10MHz	1.1695	-	1.1535	-
20MHz+5MHz	1.1298	-	1.1482	-
20MHz+10MHz	1.1614	-	1.1298	-
20MHz+15MHz	1.1350	-	1.1588	-
20MHz+20MHz	1.1776	-	1.1749	-

Note:

1. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
2. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applicable Standards

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

- ♦ 47 CFR Part27(M), 27(H), 27(F) , 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP 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.



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.

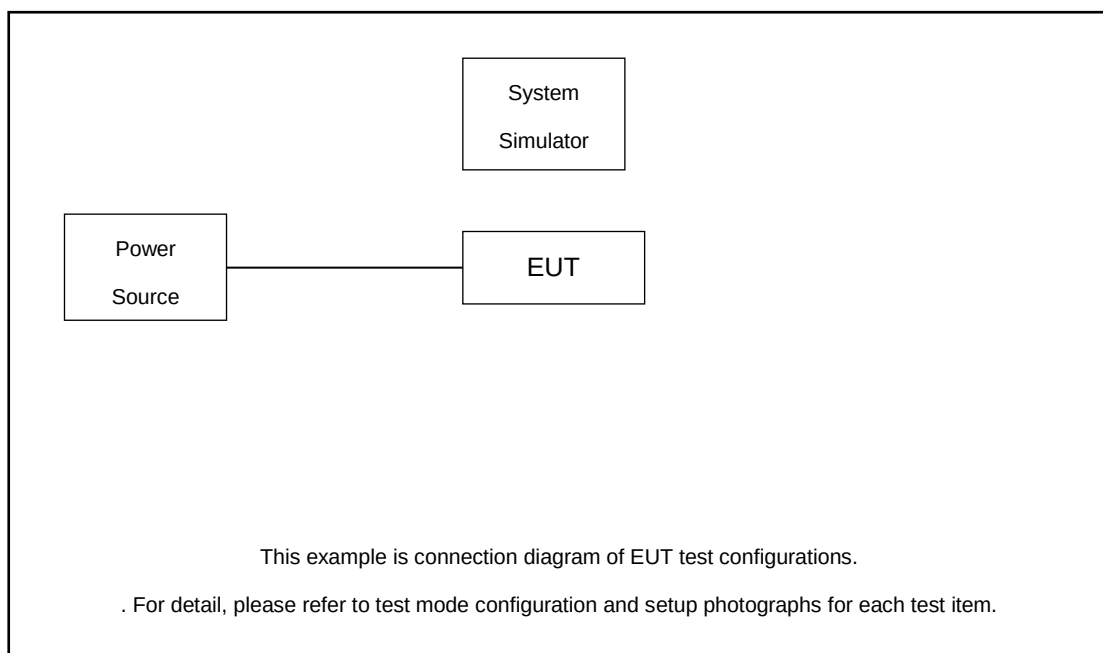
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y Plane)

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	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	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	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	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	7	Worst Case													v	v	v
	12	Worst Case													v	v	v
	13	Worst Case													v	v	v
	17	Worst Case													v	v	v
	38	Worst Case													v	v	v
	41	Worst Case													v	v	v
	71	Worst Case													v	v	v
Note	1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. 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.																



Test Items	Band		Bandwidth (MHz)									Modulation				RB #			Test Channel			
			20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	7C_CA		v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v	v
	38C_CA		v	-	-	-	-	-	-	v	-	-	v	v	v	v	v	v	v	v	v	v
	41C_CA		v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	7C_CA		v	v	v	v	v	-	-	v	v	-	v	v	v	v	v			v	v	v
	38C_CA		v	-	-	-	-	-	-	v	-	-	v	v	v	v	v			v	v	v
	41C_CA		v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA			Worst Case																v	v	v
	38C_CA			Worst Case																v	v	v
	41C_CA			Worst Case																v	v	v
Note	1.	2.	The mark “v ” means that this configuration is chosen for testing																			
		3.	The mark “-” means that this bandwidth is not supported.																			
		4.	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	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

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 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255



	Frequency	779.5	782	784.5
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LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0



15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

LTE Band 7C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397



		Frequency	2519.5	2542.1	2564.7
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LTE Band 38C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

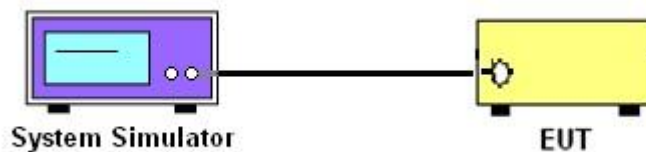
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Conducted Output Power and ERP/EIRP

3.3.1 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 3 Watts for LTE Band 12, Band 13 and Band 17 and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 7 and Band 38 and Band 41.

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

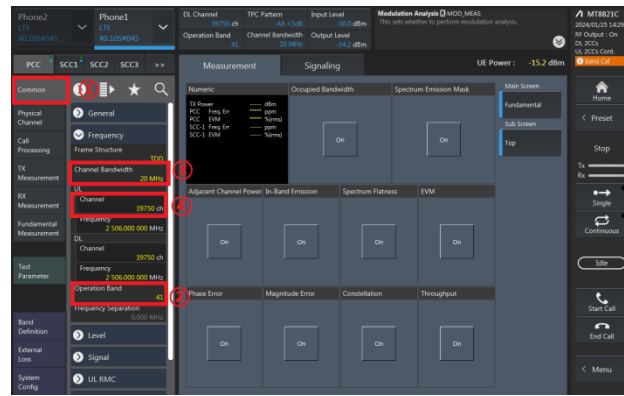
3.3.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

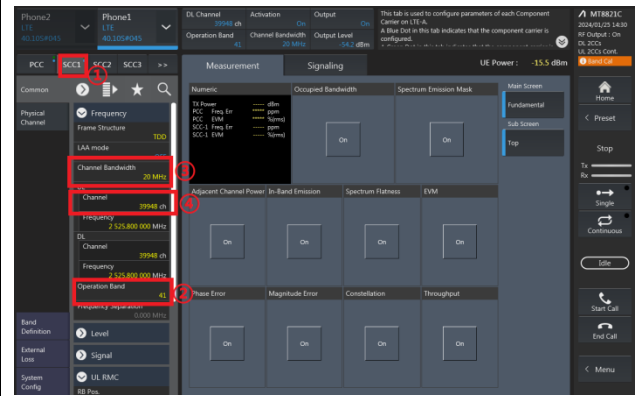
3.3.3 Test Procedures for LTE ULCA

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter PCC & SCC output ports were connected to the system simulator.
3. Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.

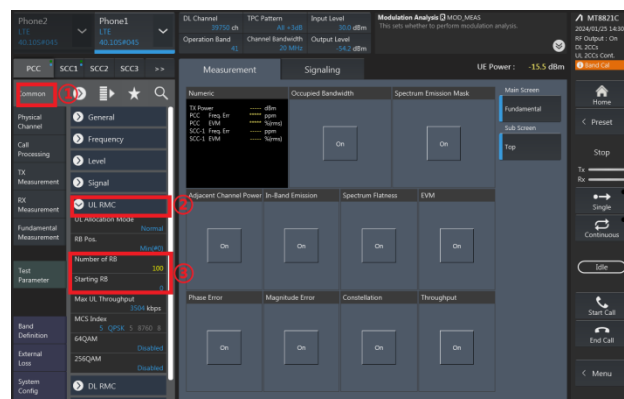
PCC config_(Channel Bandwidth / Channel / Band)



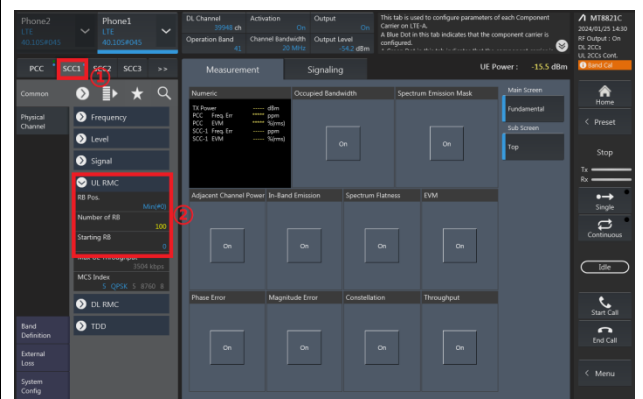
SCC config_(Channel Bandwidth / Channel / Band)



PCC config_(Number of RB / Starting RB)

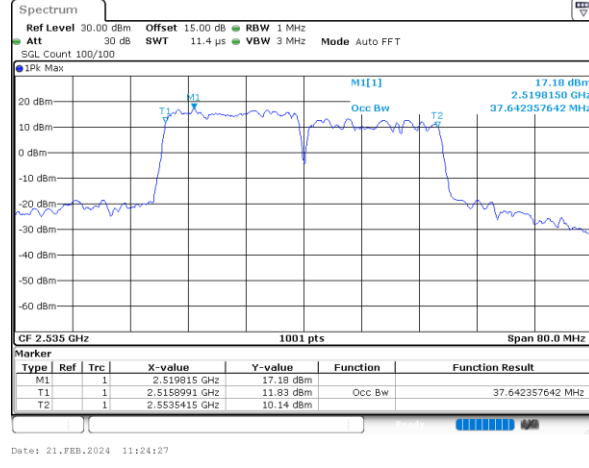


SCC config_(Number of RB / Starting RB)

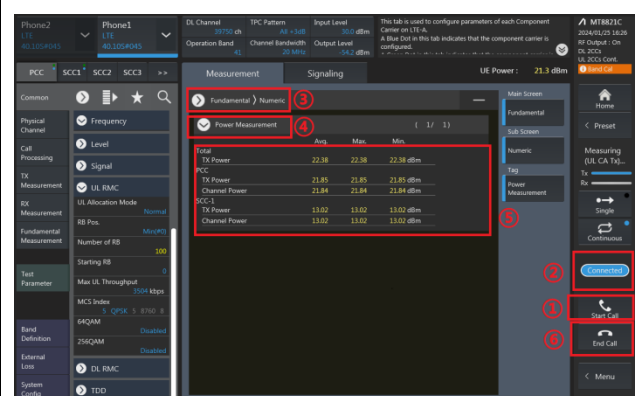


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

Check the ULCA spectrum (eg. 20M+20M)



Read the Total UL CA output power (PCC+SCC)



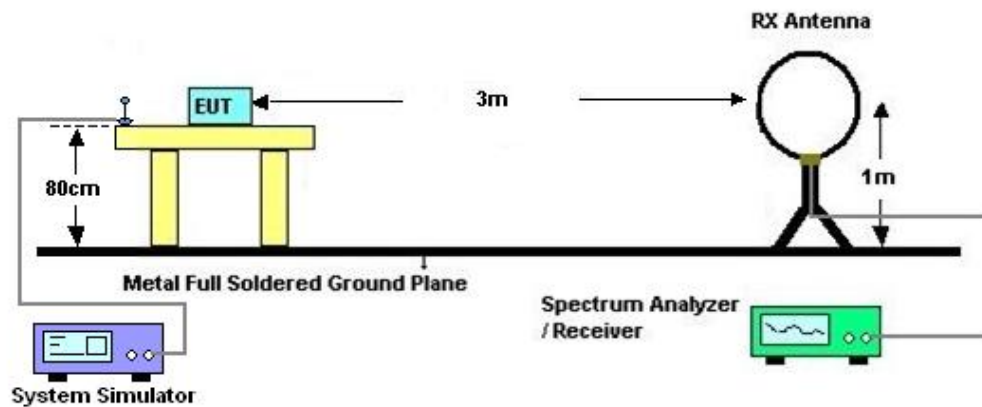
4 Radiated Test Items

4.1 Measuring Instruments

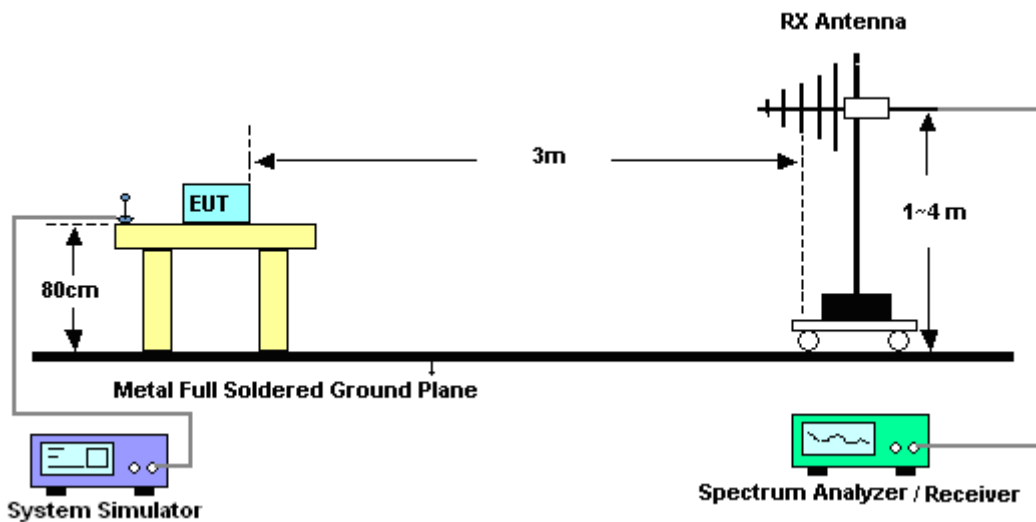
See list of measuring instruments of this test report.

4.2 Test Setup

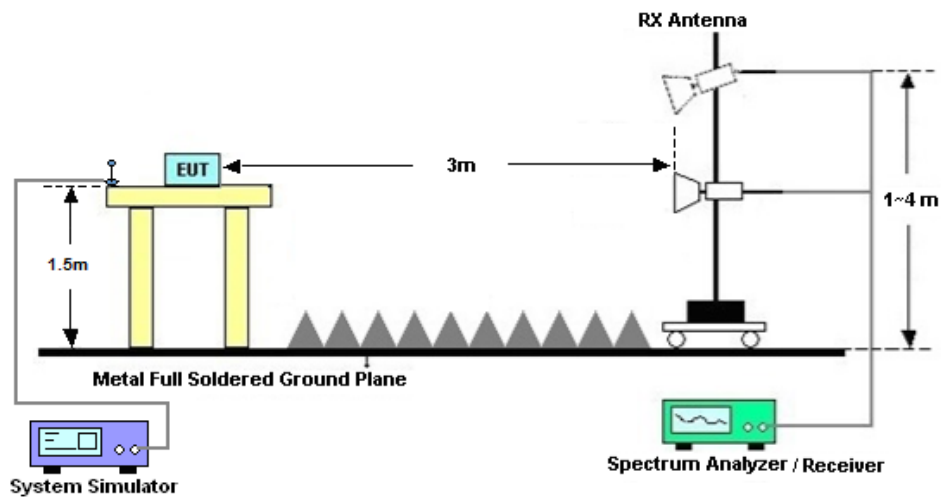
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 Band 7, 38, 41

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.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jul. 30, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 30, 2024	NCR	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Jul. 30, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 09, 2023	Jul. 30, 2024	Sep. 08, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Jul. 30, 2024	Dec. 05, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Jul. 30, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Jul. 30, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Jul. 30, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Jul. 30, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Jul. 30, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2023	Jul. 30, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 30, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 30, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 30, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Power	± 0.50 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 7_ANT2 (Module A) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	19.31	19.42	19.36	0.6039	0.6194	0.6109
20	QPSK	1	99	18.69	18.71	18.53	0.5236	0.5260	0.5047
20	QPSK	100	0	18.95	19.10	19.00	0.5559	0.5754	0.5623
20	16QAM	1	0	19.18	19.28	19.27	0.5861	0.5998	0.5984
20	64QAM	1	0	19.34	19.20	19.30	0.6081	0.5888	0.6026
20	256QAM	1	0	19.24	19.14	19.30	0.5943	0.5808	0.6026
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	19.02	18.90	18.99	0.5649	0.5495	0.5610
15	16QAM	1	0	18.75	18.91	18.64	0.5309	0.5508	0.5176
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	18.85	19.14	18.97	0.5433	0.5808	0.5585
10	16QAM	1	0	18.88	18.84	18.80	0.5470	0.5420	0.5370
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	18.85	19.13	18.91	0.5433	0.5794	0.5508
5	16QAM	1	0	18.79	18.97	18.84	0.5358	0.5585	0.5420



LTE Band 12_ANT0 (Module B) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	23.78	23.83	23.80	0.5794	0.5861	0.5821
10	QPSK	1	49	23.76	23.74	23.68	0.5768	0.5741	0.5662
10	QPSK	50	0	22.82	22.90	22.85	0.4645	0.4732	0.4677
10	16QAM	1	0	22.81	22.87	22.76	0.4634	0.4699	0.4581
10	64QAM	1	0	21.78	21.88	21.76	0.3656	0.3741	0.3639
10	256QAM	1	0	18.74	18.78	18.81	0.1816	0.1832	0.1845
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	23.66	23.68	23.63	0.5636	0.5662	0.5598
5	16QAM	1	0	22.65	22.71	22.71	0.4467	0.4529	0.4529
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	23.66	23.66	23.66	0.5636	0.5636	0.5636
3	16QAM	1	0	22.66	22.75	22.73	0.4477	0.4571	0.4550
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	23.71	23.68	23.75	0.5702	0.5662	0.5754
1.4	16QAM	1	0	22.76	22.83	22.82	0.4581	0.4656	0.4645



LTE Band 13_ANT0 (Module B) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		23.40			0.5309	
10	QPSK	1	49		23.28			0.5164	
10	QPSK	50	0		22.36			0.4178	
10	16QAM	1	0		22.39			0.4207	
10	64QAM	1	0		21.43			0.3373	
10	256QAM	1	0		18.73			0.1811	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	23.12	23.24	23.29	0.4977	0.5117	0.5176
5	16QAM	1	0	22.14	22.26	22.24	0.3972	0.4083	0.4064

LTE Band 17_ANT0 (Module D) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711	L	M	H
10	QPSK	1	0	23.60	23.61	23.60	0.5559	0.5572	0.5559
10	QPSK	1	49	23.51	23.59	23.58	0.5445	0.5546	0.5534
10	QPSK	50	0	22.56	22.57	22.50	0.4375	0.4385	0.4315
10	16QAM	1	0	22.51	22.60	22.51	0.4325	0.4416	0.4325
10	64QAM	1	0	21.57	21.54	21.53	0.3483	0.3459	0.3451
10	256QAM	1	0	18.54	18.50	18.53	0.1734	0.1718	0.1730
Channel				23755	23790	23825	ERP(W)		
Frequency (MHz)				706.5	710	713.5	L	M	H
5	QPSK	1	0	23.54	23.50	23.48	0.5483	0.5433	0.5408
5	16QAM	1	0	22.45	22.54	22.46	0.4266	0.4355	0.4276



LTE Band 38_ANT0 (Module B) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.23	22.24	22.21	1.1830	1.1858	1.1776
20	QPSK	1	99	22.16	22.12	22.19	1.1641	1.1535	1.1722
20	QPSK	100	0	22.12	22.18	22.17	1.1535	1.1695	1.1668
20	16QAM	1	0	22.08	22.14	22.11	1.1429	1.1588	1.1508
20	64QAM	1	0	21.70	21.67	21.64	1.0471	1.0399	1.0328
20	256QAM	1	0	18.69	18.71	18.77	0.5236	0.5260	0.5333
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.16	22.11	22.11	1.1641	1.1508	1.1508
15	16QAM	1	0	21.98	22.11	21.98	1.1169	1.1508	1.1169
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.16	22.09	22.05	1.1641	1.1455	1.1350
10	16QAM	1	0	21.97	22.10	22.08	1.1143	1.1482	1.1429
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.16	22.13	22.13	1.1641	1.1561	1.1561
5	16QAM	1	0	22.07	22.09	22.04	1.1402	1.1455	1.1324



LTE Band 41_ANT0 (Module B) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	22.07	22.31	22.11	1.1402	1.2050	1.1508
20	QPSK	1	99	22.11	22.25	22.00	1.1508	1.1885	1.1220
20	QPSK	100	0	21.94	22.26	21.96	1.1066	1.1912	1.1117
20	16QAM	1	0	22.02	22.19	21.99	1.1272	1.1722	1.1194
20	64QAM	1	0	21.50	21.70	21.61	1.0000	1.0471	1.0257
20	256QAM	1	0	18.60	18.81	18.49	0.5129	0.5383	0.5000
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	21.96	22.27	22.03	1.1117	1.1940	1.1298
15	16QAM	1	0	21.99	22.12	21.93	1.1194	1.1535	1.1041
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	22.02	22.21	21.98	1.1272	1.1776	1.1169
10	16QAM	1	0	22.01	22.18	21.95	1.1246	1.1695	1.1092
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	21.96	22.17	21.99	1.1117	1.1668	1.1194
5	16QAM	1	0	21.99	22.15	21.94	1.1194	1.1614	1.1066



LTE Band 71_ANT0 (Module A) :

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688	L	M	H
20	QPSK	1	0	22.85	22.89	22.80	0.3981	0.4018	0.3936
20	QPSK	1	99	22.71	22.81	22.63	0.3855	0.3945	0.3784
20	QPSK	100	0	21.80	21.82	21.74	0.3126	0.3141	0.3083
20	16QAM	1	0	21.93	21.89	21.86	0.3221	0.3192	0.3170
20	64QAM	1	0	20.79	20.88	20.79	0.2477	0.2529	0.2477
20	256QAM	1	0	17.92	18.04	17.92	0.1279	0.1315	0.1279
Channel				133197	133297	133397	EIRP(W)		
Frequency (MHz)				670.5	680.5	690.5	L	M	H
15	QPSK	1	0	22.79	22.80	22.69	0.3926	0.3936	0.3837
15	16QAM	1	0	21.83	21.73	21.74	0.3148	0.3076	0.3083
Channel				133172	133272	133422	EIRP(W)		
Frequency (MHz)				668	678	693	L	M	H
10	QPSK	1	0	22.75	22.71	22.68	0.3890	0.3855	0.3828
10	16QAM	1	0	21.81	21.74	21.69	0.3133	0.3083	0.3048
Channel				133147	133247	133447	EIRP(W)		
Frequency (MHz)				665.5	675.5	695.5	L	M	H
5	QPSK	1	0	22.74	22.76	22.64	0.3882	0.3899	0.3793
5	16QAM	1	0	21.89	21.79	21.69	0.3192	0.3119	0.3048



LTE Band 7C_ANT0 (Module C) :

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	18.81	0.5383
M	QPSK	1	Max	1	0	19.09	0.5741
H	QPSK	1	Max	1	0	18.84	0.5420
L	16QAM	1	Max	1	0	18.70	0.5248
M	16QAM	1	Max	1	0	19.01	0.5636
H	16QAM	1	Max	1	0	18.82	0.5395
L	64QAM	1	Max	1	0	18.76	0.5321
M	64QAM	1	Max	1	0	18.94	0.5546
H	64QAM	1	Max	1	0	18.77	0.5333
L	256QAM	1	Max	1	0	18.76	0.5321
M	256QAM	1	Max	1	0	19.05	0.5689
H	256QAM	1	Max	1	0	18.81	0.5383
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	19.07	0.5715
M	16QAM	1	Max	1	0	18.99	0.5610
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	19.05	0.5689
M	16QAM	1	Max	1	0	18.88	0.5470
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	18.91	0.5508
M	16QAM	1	Max	1	0	18.85	0.5433
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	18.95	0.5559
M	16QAM	1	Max	1	0	18.89	0.5483



Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	19.02	0.5649
M	16QAM	1	Max	1	0	18.90	0.5495
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	18.96	0.5572
M	16QAM	1	Max	1	0	19.00	0.5623

LTE Band 38C_ANT0 (Module B) :

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.03	1.1298
M	QPSK	1	Max	1	0	22.14	1.1588
H	QPSK	1	Max	1	0	22.06	1.1376
L	16QAM	1	Max	1	0	21.90	1.0965
M	16QAM	1	Max	1	0	21.95	1.1092
H	16QAM	1	Max	1	0	22.00	1.1220
L	64QAM	1	Max	1	0	21.49	0.9977
M	64QAM	1	Max	1	0	21.60	1.0233
H	64QAM	1	Max	1	0	21.51	1.0023
L	256QAM	1	Max	1	0	18.54	0.5058
M	256QAM	1	Max	1	0	18.68	0.5224
H	256QAM	1	Max	1	0	18.50	0.5012
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.10	1.1482
H	16QAM	1	Max	1	0	21.98	1.1169



LTE Band 41C_ANT0 (Module B) :

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.91	1.0990
M	QPSK	1	Max	1	0	22.21	1.1776
H	QPSK	1	Max	1	0	22.01	1.1246
L	16QAM	1	Max	1	0	21.85	1.0839
M	16QAM	1	Max	1	0	22.20	1.1749
H	16QAM	1	Max	1	0	21.90	1.0965
L	64QAM	1	Max	1	0	21.40	0.9772
M	64QAM	1	Max	1	0	21.77	1.0641
H	64QAM	1	Max	1	0	21.56	1.0139
L	256QAM	1	Max	1	0	18.40	0.4898
M	256QAM	1	Max	1	0	18.70	0.5248
H	256QAM	1	Max	1	0	18.44	0.4943
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.05	1.1350
M	16QAM	1	Max	1	0	22.14	1.1588
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.06	1.1376
M	16QAM	1	Max	1	0	22.03	1.1298
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.16	1.1641
M	16QAM	1	Max	1	0	22.10	1.1482
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.15	1.1614
M	16QAM	1	Max	1	0	22.03	1.1298



Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.10	1.1482
M	16QAM	1	Max	1	0	22.05	1.1350
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.18	1.1695
M	16QAM	1	Max	1	0	22.12	1.1535
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.18	1.1695
M	16QAM	1	Max	1	0	22.07	1.1402
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.03	1.1298
M	16QAM	1	Max	1	0	22.10	1.1482
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	22.20	1.1749
M	16QAM	1	Max	1	0	22.04	1.1324



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

RSE pretest all the supported Antennas, only the worst results are shown in the report.

LTE Band 7 / 20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5008	-62.49	-25	-37.49	-72.70	3.03	13.24	H
	7500	-61.94	-25	-36.94	-71.39	3.56	13.01	H
	10006	-63.18	-25	-38.18	-72.70	3.92	13.44	H
	5008	-61.14	-25	-36.14	-71.35	3.03	13.24	V
	7500	-60.19	-25	-35.19	-69.64	3.56	13.01	V
	10006	-63.14	-25	-38.14	-72.66	3.92	13.44	V
Middle	5050	-62.82	-25	-37.82	-73.03	3.03	13.24	H
	7584	-62.44	-25	-37.44	-71.89	3.56	13.01	H
	10104	-62.87	-25	-37.87	-72.39	3.92	13.44	H
	5050	-62.58	-25	-37.58	-72.79	3.03	13.24	V
	7584	-62.77	-25	-37.77	-72.22	3.56	13.01	V
	10104	-62.67	-25	-37.67	-72.19	3.92	13.44	V
Highest	5106	-63.12	-25	-38.12	-73.33	3.03	13.24	H
	7654	-62.13	-25	-37.13	-71.58	3.56	13.01	H
	10202	-62.35	-25	-37.35	-71.87	3.92	13.44	H
	5106	-63.00	-25	-38.00	-73.21	3.03	13.24	V
	7654	-61.58	-25	-36.58	-71.03	3.56	13.01	V
	10202	-62.57	-25	-37.57	-72.09	3.92	13.44	V

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



LTE Band 12 / 10MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-52.18	-13	-39.18	-59.15	1.58	10.70	H
	2096	-31.19	-13	-18.19	-39.44	2.102	12.50	H
	2800	-43.44	-13	-30.44	-52.33	2.856	13.90	H
	3496	-48.33	-13	-35.33	-58.29	3.45	15.57	H
	4200	-46.73	-13	-33.73	-57.65	4.093	17.17	H
	4896	-48.54	-13	-35.54	-60.43	4.731	18.77	H
	5600	-33.98	-13	-20.98	-46.83	5.369	20.37	H
	6296	-49.21	-13	-36.21	-63.02	6.007	21.97	H
	6992	-51.56	-13	-38.56	-66.33	6.645	23.57	H
	7696	-50.62	-13	-37.62	-66.35	7.283	25.17	H
	1400	-53.68	-13	-40.68	-60.65	1.58	10.70	V
	2096	-26.80	-13	-13.80	-35.05	2.10	12.50	V
	2800	-38.90	-13	-25.90	-47.79	2.86	13.90	V
	3496	-44.89	-13	-31.89	-54.85	3.46	15.57	V
	4200	-36.78	-13	-23.78	-47.70	4.09	17.17	V
	4896	-41.53	-13	-28.53	-53.42	4.73	18.77	V
	5600	-33.88	-13	-20.88	-46.73	5.37	20.37	V
	6296	-44.29	-13	-31.29	-58.10	6.01	21.97	V
	6992	-55.71	-13	-42.71	-70.48	6.65	23.57	V
	7696	-50.17	-13	-37.17	-65.90	7.28	25.17	V
Middle	1408	-54.52	-13	-41.52	-61.49	1.58	10.70	H
	2112	-31.25	-13	-18.25	-39.50	2.102	12.50	H
	2808	-46.31	-13	-33.31	-55.20	2.856	13.90	H
	3512	-49.72	-13	-36.72	-59.68	3.45	15.57	H
	4216	-48.03	-13	-35.03	-58.95	4.093	17.17	H
	4920	-48.70	-13	-35.70	-60.59	4.731	18.77	H
	5624	-40.10	-13	-27.10	-52.95	5.369	20.37	H
	6328	-47.61	-13	-34.61	-61.42	6.007	21.97	H
	7032	-51.45	-13	-38.45	-66.22	6.645	23.57	H
	7736	-52.86	-13	-39.86	-68.59	7.283	25.17	H
	1408	-51.66	-13	-38.66	-58.63	1.58	10.70	V
	2112	-21.70	-13	-8.70	-29.95	2.10	12.50	V
	2808	-41.91	-13	-28.91	-50.80	2.86	13.90	V
	3512	-44.75	-13	-31.75	-54.71	3.46	15.57	V
	4216	-36.96	-13	-23.96	-47.88	4.09	17.17	V
	4920	-38.73	-13	-25.73	-50.62	4.73	18.77	V
	5624	-35.23	-13	-22.23	-48.08	5.37	20.37	V
	6328	-45.51	-13	-32.51	-59.32	6.01	21.97	V
	7032	-52.58	-13	-39.58	-67.35	6.65	23.57	V
	7736	-51.02	-13	-38.02	-66.75	7.28	25.17	V
Highest	1416	-52.62	-13	-39.62	-59.59	1.58	10.70	H
	2120	-28.51	-13	-15.51	-36.76	2.102	12.50	H
	2824	-41.17	-13	-28.17	-50.06	2.856	13.90	H
	3536	-50.71	-13	-37.71	-60.67	3.45	15.57	H
	4240	-46.87	-13	-33.87	-57.79	4.093	17.17	H



	4944	-45.47	-13	-32.47	-57.36	4.731	18.77	H
	5656	-40.73	-13	-27.73	-53.58	5.369	20.37	H
	6360	-41.30	-13	-28.30	-55.11	6.007	21.97	H
	7064	-50.48	-13	-37.48	-65.25	6.645	23.57	H
	7768	-51.26	-13	-38.26	-66.99	7.283	25.17	H
	1416	-49.30	-13	-36.30	-56.27	1.58	10.70	V
	2120	-20.75	-13	-7.75	-29.00	2.10	12.50	V
	2824	-37.87	-13	-24.87	-46.76	2.86	13.90	V
	3536	-46.33	-13	-33.33	-56.29	3.46	15.57	V
	4240	-37.32	-13	-24.32	-48.24	4.09	17.17	V
	4944	-39.75	-13	-26.75	-51.64	4.73	18.77	V
	5656	-34.64	-13	-21.64	-47.49	5.37	20.37	V
	6360	-37.08	-13	-24.08	-50.89	6.01	21.97	V
	7064	-53.05	-13	-40.05	-67.82	6.65	23.57	V
	7768	-47.27	-13	-34.27	-63.00	7.28	25.17	V

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



LTE Band 13 / 5MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-63.08	-13	-50.08	-65.71	1.09	5.87	H
	2328	-42.43	-13	-29.43	-44.83	1.37	5.92	H
	3112	-58.28	-13	-45.28	-62.17	1.64	7.68	H
	1552	-58.52	-13	-45.52	-61.15	1.09	5.87	V
	2328	-45.62	-13	-32.62	-48.02	1.37	5.92	V
	3112	-57.51	-13	-44.51	-61.40	1.64	7.68	V
Middle	1560	-59.67	-42.15	-17.52	-62.30	1.09	5.87	H
	2336	-58.38	-13	-45.38	-60.78	1.37	5.92	H
	3120	-57.15	-13	-44.15	-61.04	1.64	7.68	H
	1560	-58.36	-42.15	-16.21	-60.99	1.09	5.87	V
	2336	-53.75	-13	-40.75	-56.15	1.37	5.92	V
	3120	-56.73	-13	-43.73	-60.62	1.64	7.68	V
Highest	1568	-58.76	-42.15	-16.61	-61.39	1.09	5.87	H
	2344	-47.40	-13	-34.40	-49.80	1.37	5.92	H
	3128	-60.81	-13	-47.81	-64.70	1.64	7.68	H
	1568	-54.93	-42.15	-12.78	-57.56	1.09	5.87	V
	2344	-42.37	-13	-29.37	-44.77	1.37	5.92	V
	3128	-59.06	-13	-46.06	-62.95	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-60.92	-13	-47.92	-63.55	1.09	5.87	H
	2336	-39.67	-13	-26.67	-42.07	1.37	5.92	H
	3112	-56.69	-13	-43.69	-60.58	1.64	7.68	H
	1552	-59.51	-13	-46.51	-62.14	1.09	5.87	V
	2336	-50.49	-13	-37.49	-52.89	1.37	5.92	V
	3112	-54.79	-13	-41.79	-58.68	1.64	7.68	V

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



LTE Band 41 / 20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4994	-52.59	-25	-27.59	-62.80	3.03	13.24	H
	7500	-60.79	-25	-35.79	-70.24	3.56	13.01	H
	9992	-62.79	-25	-37.79	-72.31	3.92	13.44	H
	4994	-47.20	-25	-22.20	-57.41	3.03	13.24	V
	7500	-60.43	-25	-35.43	-69.88	3.56	13.01	V
	9992	-62.94	-25	-37.94	-72.46	3.92	13.44	V
Middle	5162	-62.83	-25	-37.83	-73.04	3.03	13.24	H
	7752	-62.76	-25	-37.76	-72.21	3.56	13.01	H
	10342	-61.71	-25	-36.71	-71.23	3.92	13.44	H
	5162	-63.05	-25	-38.05	-73.26	3.03	13.24	V
	7752	-62.40	-25	-37.40	-71.85	3.56	13.01	V
	10342	-61.67	-25	-36.67	-71.19	3.92	13.44	V
Highest	5344	-64.16	-25	-39.16	-74.37	3.03	13.24	H
	8018	-63.13	-25	-38.13	-72.58	3.56	13.01	H
	10678	-62.47	-25	-37.47	-71.99	3.92	13.44	H
	5344	-64.01	-25	-39.01	-74.22	3.03	13.24	V
	8018	-63.23	-25	-38.23	-72.68	3.56	13.01	V
	10678	-62.40	-25	-37.40	-71.92	3.92	13.44	V

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



LTE Band 71 / 20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-61.74	-13	-48.74	-63.49	1.02	4.92	H
	1992	-51.31	-13	-38.31	-53.28	1.27	5.39	H
	2656	-46.31	-13	-33.31	-49.24	1.49	6.57	H
	3320	-46.92	-13	-33.92	-50.32	1.73	7.28	H
	3984	-45.83	-13	-32.83	-49.82	1.97	8.10	H
	4648	-44.79	-13	-31.79	-49.37	2.20	8.93	H
	5312	-49.26	-13	-36.26	-54.43	2.44	9.75	H
	5976	-56.06	-13	-43.06	-61.82	2.67	10.58	H
	1328	-63.55	-13	-50.55	-65.30	1.02	4.92	V
	1992	-50.34	-13	-37.34	-52.31	1.27	5.39	V
	2656	-47.64	-13	-34.64	-50.57	1.49	6.57	V
	3320	-44.74	-13	-31.74	-48.14	1.73	7.28	V
	3984	-40.02	-13	-27.02	-44.01	1.97	8.10	V
	4648	-40.14	-13	-27.14	-44.72	2.20	8.93	V
	5312	-50.02	-13	-37.02	-55.19	2.44	9.75	V
	5976	-54.00	-13	-41.00	-59.76	2.67	10.58	V
Middle	1344	-58.55	-13	-45.55	-60.30	1.02	4.92	H
	2024	-39.53	-13	-26.53	-41.50	1.27	5.39	H
	2696	-48.03	-13	-35.03	-50.96	1.49	6.57	H
	3368	-46.25	-13	-33.25	-49.65	1.73	7.28	H
	4048	-46.77	-13	-33.77	-50.76	1.97	8.10	H
	4720	-47.52	-13	-34.52	-52.10	2.20	8.93	H
	5392	-48.75	-13	-35.75	-53.92	2.44	9.75	H
	6064	-55.53	-13	-42.53	-61.29	2.67	10.58	H
	1344	-57.32	-13	-44.32	-59.07	1.02	4.92	V
	2024	-33.29	-13	-20.29	-35.26	1.27	5.39	V
	2696	-48.57	-13	-35.57	-51.50	1.49	6.57	V
	3368	-41.29	-13	-28.29	-44.69	1.73	7.28	V
	4048	-37.43	-13	-24.43	-41.42	1.97	8.10	V
	4720	-38.47	-13	-25.47	-43.05	2.20	8.93	V
	5392	-49.27	-13	-36.27	-54.44	2.44	9.75	V
	6064	-52.57	-13	-39.57	-58.33	2.67	10.58	V
Highest	1360	-61.53	-13	-48.53	-63.28	1.02	4.92	H
	2040	-51.37	-13	-38.37	-53.34	1.27	5.39	H
	2720	-50.67	-13	-37.67	-53.60	1.49	6.57	H
	3392	-50.95	-13	-37.95	-54.35	1.73	7.28	H
	4072	-51.19	-13	-38.19	-55.18	1.97	8.10	H
	4752	-53.30	-13	-40.30	-57.88	2.20	8.93	H
	5432	-53.28	-13	-40.28	-58.45	2.44	9.75	H
	6112	-57.14	-13	-44.14	-62.90	2.67	10.58	H
	1360	-60.11	-13	-47.11	-61.86	1.02	4.92	V
	2040	-31.78	-13	-18.78	-33.75	1.27	5.39	V
	2712	-50.31	-13	-37.31	-53.24	1.49	6.57	V
	3392	-49.20	-13	-36.20	-52.60	1.73	7.28	V



	4072	-43.25	-13	-30.25	-47.24	1.97	8.10	V
	4752	-47.67	-13	-34.67	-52.25	2.20	8.93	V
	5432	-52.50	-13	-39.50	-57.67	2.44	9.75	V
	6112	-57.58	-13	-44.58	-63.34	2.67	10.58	V

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

LTE Band 7C / 20MHz+20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5008	-62.67	-25	-37.67	-72.88	3.03	13.24	H
	7500	-59.44	-25	-34.44	-68.89	3.56	13.01	H
	10006	-60.06	-25	-35.06	-69.58	3.92	13.44	H
	5008	-62.71	-25	-37.71	-72.92	3.03	13.24	V
	7500	-55.38	-25	-30.38	-64.83	3.56	13.01	V
	10006	-60.58	-25	-35.58	-70.10	3.92	13.44	V
	5036	-62.87	-25	-37.87	-73.08	3.03	13.24	H
	7556	-61.38	-25	-36.38	-70.83	3.56	13.01	H
	10076	-60.87	-25	-35.87	-70.39	3.92	13.44	H
	5036	-63.33	-25	-38.33	-73.54	3.03	13.24	V
	7556	-61.24	-25	-36.24	-70.69	3.56	13.01	V
	10076	-60.90	-25	-35.90	-70.42	3.92	13.44	V
Middle	5036	-63.26	-25	-38.26	-73.47	3.03	13.24	H
	7542	-61.74	-25	-36.74	-71.19	3.56	13.01	H
	10062	-60.93	-25	-35.93	-70.45	3.92	13.44	H
	5036	-63.29	-25	-38.29	-73.50	3.03	13.24	V
	7542	-61.54	-25	-36.54	-70.99	3.56	13.01	V
	10062	-61.17	-25	-36.17	-70.69	3.92	13.44	V
	5064	-63.32	-25	-38.32	-73.53	3.03	13.24	H
	7612	-61.73	-25	-36.73	-71.18	3.56	13.01	H
	10146	-60.54	-25	-35.54	-70.06	3.92	13.44	H
	5064	-62.91	-25	-37.91	-73.12	3.03	13.24	V
	7612	-61.28	-25	-36.28	-70.73	3.56	13.01	V
	10146	-60.70	-25	-35.70	-70.22	3.92	13.44	V
Highest	5064	-63.42	-25	-38.42	-73.63	3.03	13.24	H
	7598	-61.49	-25	-36.49	-70.94	3.56	13.01	H
	10132	-60.15	-25	-35.15	-69.67	3.92	13.44	H
	5064	-63.16	-25	-38.16	-73.37	3.03	13.24	V
	7598	-61.25	-25	-36.25	-70.70	3.56	13.01	V
	10132	-60.72	-25	-35.72	-70.24	3.92	13.44	V
	5106	-63.32	-25	-38.32	-73.53	3.03	13.24	H
	7654	-61.47	-25	-36.47	-70.92	3.56	13.01	H
	10202	-60.27	-25	-35.27	-69.79	3.92	13.44	H
	5106	-63.49	-25	-38.49	-73.70	3.03	13.24	V
	7654	-61.04	-25	-36.04	-70.49	3.56	13.01	V
	10202	-60.43	-25	-35.43	-69.95	3.92	13.44	V

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



LTE Band 38C / 20MHz+20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5148	-62.92	-25	-37.92	-73.13	3.03	13.24	H
	7710	-60.95	-25	-35.95	-70.40	3.56	13.01	H
	10286	-61.41	-25	-36.41	-70.93	3.92	13.44	H
	5148	-63.02	-25	-38.02	-73.23	3.03	13.24	V
	7710	-61.06	-25	-36.06	-70.51	3.56	13.01	V
	10286	-61.42	-25	-36.42	-70.94	3.92	13.44	V
	5176	-63.22	-25	-38.22	-73.43	3.03	13.24	H
	7766	-61.03	-25	-36.03	-70.48	3.56	13.01	H
	10356	-61.23	-25	-36.23	-70.75	3.92	13.44	H
	5176	-63.14	-25	-38.14	-73.35	3.03	13.24	V
	7766	-61.39	-25	-36.39	-70.84	3.56	13.01	V
	10356	-61.38	-25	-36.38	-70.90	3.92	13.44	V
Middle	5148	-63.35	-25	-38.35	-73.56	3.03	13.24	H
	7724	-61.00	-25	-36.00	-70.45	3.56	13.01	H
	10300	-61.41	-25	-36.41	-70.93	3.92	13.44	H
	5148	-63.35	-25	-38.35	-73.56	3.03	13.24	V
	7724	-61.00	-25	-36.00	-70.45	3.56	13.01	V
	10300	-61.41	-25	-36.41	-70.93	3.92	13.44	V
	5190	-63.44	-25	-38.44	-73.65	3.03	13.24	H
	7780	-61.34	-25	-36.34	-70.79	3.56	13.01	H
	10384	-60.95	-25	-35.95	-70.47	3.92	13.44	H
	5190	-63.68	-25	-38.68	-73.89	3.03	13.24	V
	7780	-61.52	-25	-36.52	-70.97	3.56	13.01	V
	10384	-61.14	-25	-36.14	-70.66	3.92	13.44	V
Highest	5162	-63.33	-25	-38.33	-73.54	3.03	13.24	H
	7738	-61.00	-25	-36.00	-70.45	3.56	13.01	H
	10328	-61.18	-25	-36.18	-70.70	3.92	13.44	H
	5162	-63.42	-25	-38.42	-73.63	3.03	13.24	V
	7738	-60.95	-25	-35.95	-70.40	3.56	13.01	V
	10328	-61.46	-25	-36.46	-70.98	3.92	13.44	V
	5204	-63.40	-25	-38.40	-73.61	3.03	13.24	H
	7808	-61.45	-25	-36.45	-70.90	3.56	13.01	H
	10398	-61.14	-25	-36.14	-70.66	3.92	13.44	H
	5204	-63.40	-25	-38.40	-73.61	3.03	13.24	V
	7808	-61.39	-25	-36.39	-70.84	3.56	13.01	V
	10398	-61.29	-25	-36.29	-70.81	3.92	13.44	V

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



LTE Band 41C / 20MHz+20MHz / QPSK / Ant.0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4994	-51.26	-25	-26.26	-61.47	3.03	13.24	H
	7486	-61.30	-25	-36.30	-70.75	3.56	13.01	H
	9992	-60.38	-25	-35.38	-69.90	3.92	13.44	H
	4994	-51.91	-25	-26.91	-62.12	3.03	13.24	V
	7486	-61.20	-25	-36.20	-70.65	3.56	13.01	V
	9992	-60.72	-25	-35.72	-70.24	3.92	13.44	V
	5036	-63.52	-25	-38.52	-73.73	3.03	13.24	H
	7556	-61.71	-25	-36.71	-71.16	3.56	13.01	H
	10062	-61.47	-25	-36.47	-70.99	3.92	13.44	H
	5036	-63.49	-25	-38.49	-73.70	3.03	13.24	V
	7556	-61.73	-25	-36.73	-71.18	3.56	13.01	V
	10062	-61.67	-25	-36.67	-71.19	3.92	13.44	V
Middle	5148	-63.84	-25	-38.84	-74.05	3.03	13.24	H
	7724	-61.25	-25	-36.25	-70.70	3.56	13.01	H
	10300	-61.22	-25	-36.22	-70.74	3.92	13.44	H
	5148	-63.72	-25	-38.72	-73.93	3.03	13.24	V
	7724	-61.08	-25	-36.08	-70.53	3.56	13.01	V
	10300	-61.55	-25	-36.55	-71.07	3.92	13.44	V
	5190	-63.64	-25	-38.64	-73.85	3.03	13.24	H
	7780	-61.83	-25	-36.83	-71.28	3.56	13.01	H
	10370	-61.18	-25	-36.18	-70.70	3.92	13.44	H
	5190	-63.41	-25	-38.41	-73.62	3.03	13.24	V
	7780	-61.63	-25	-36.63	-71.08	3.56	13.01	V
	10370	-61.60	-25	-36.60	-71.12	3.92	13.44	V
Highest	5302	-64.17	-25	-39.17	-74.38	3.03	13.24	H
	7948	-61.22	-25	-36.22	-70.67	3.56	13.01	H
	10608	-60.71	-25	-35.71	-70.23	3.92	13.44	H
	5302	-63.90	-25	-38.90	-74.11	3.03	13.24	V
	7948	-61.33	-25	-36.33	-70.78	3.56	13.01	V
	10608	-60.77	-25	-35.77	-70.29	3.92	13.44	V
	5344	-64.37	-25	-39.37	-74.58	3.03	13.24	H
	8018	-61.93	-25	-36.93	-71.38	3.56	13.01	H
	10678	-60.61	-25	-35.61	-70.13	3.92	13.44	H
	5344	-64.11	-25	-39.11	-74.32	3.03	13.24	V
	8018	-61.57	-25	-36.57	-71.02	3.56	13.01	V
	10678	-60.91	-25	-35.91	-70.43	3.92	13.44	V

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