

TEST REPORT

Application No.: SZEM2009009488CR
Applicant: Smawave Technology Co., Ltd
Address of Applicant: 3/F, Building 8, 1001 North Qinzhou Road , Xuhui District, Shanghai, China
Manufacturer: Smawave Technology Co., Ltd
Address of Manufacturer: 3/F, Building 8, 1001 North Qinzhou Road , Xuhui District, Shanghai, China

Equipment Under Test (EUT):
EUT Name: USB Dongle
Model No.: SDF311-a
Contains FCC ID: 2AU8HMG5607A
Standard(s) :
47 CFR Part 2
47 CFR Part 25
47 CFR Part 27C
47 CFR Part 90Z
47 CFR Part 96E

Date of Receipt: 2020-09-21
Date of Test: 2020-10-20 to 2020-12-10
Date of Issue: 2020-12-11

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-11		Original

Authorized for issue by:			
			
		<hr/>	
		Leo Lai/Project Engineer	
			
		<hr/>	
		Eric Fu /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1051, §27.53(m)	≤ -25dBm (LTE Band 41)	PASS
Radiates Spurious Emission	2.1053	≤ -13dBm (LTE Band 53)	PASS
Field Strength of Spurious Radiation / Radiated Spurious Emissions	2.1053/ 90.1323	≤ -13dBm (LTE Band 43)	PASS
Radiates Spurious Emission	2.1051 / 96.41(e)	≤ -40dBm (LTE Band 48)	PASS

This is a C2PC report based on the granted Single Modular(2AU8HMGM5607A), only spurious emission was evaluated in this report and other data referred to original modular report with FCC ID 2AU8HMGM5607A.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from USB port of the host unit		
LTE Operation Frequency Band:	41, 43, 48, 53		
Modulation Type:	UL: QPSK, 16QAM, 64QAM DL: QPSK, 16QAM, 64QAM		
LTE Release Version:	R11		
LTE Power Class:	Level 3		
Working Bandwidth:	10M, 15M, 20M (Band 41, 43, 48)		
Working Bandwidth:	1.3, 3, 5, 10M (Band 53)		
Antenna Type:	Internal antenna		
Antenna Gain:	Band 41: 3.0dBi Band 43: 3.18dBi Band 48: 3.18dBi Band 53: 3.0dBi		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	LTE Band 41	2496 ~ 2690	2496 ~ 2690
	LTE Band 43	3650 ~ 3700	3650 ~ 3700
	LTE Band 48	3550 ~ 3700	3550 ~ 3700
	LTE Band 53	2483.5 ~ 2495	2483.5 ~ 2495

4.2 Test Frequency

Test modes are chosen to be reported as the worst case configuration below for LTE Band 41, 43, 48:

Test items	LTE Band	Bandwidth (MHz)				Modulation			RB			Test Channel		
		5	10	15	20	QPSK	16QAM	64QAM	1	50%	100%	L	M	H
Field Strength of Spurious Radiation/ Radiates Spurious Emission	41	○	○	○	○	○	-	-	○	-	-	○	○	○
	43	○	○	○	○	○	-	-	○	-	-	○	○	○
	48	○	○	○	○	○	-	-	○	-	-	○	○	○



Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.
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Test modes are chosen to be reported as the worst case configuration below for LTE Band 53:

Test items	Bandwidth (MHz)				Modulation			RB			Test Channel		
	1.4	3	5	10	QPSK	16QAM	64QAM	1	50%	100%	L	M	H
Radiates Spurious Emission	O	O	O	O	O	-	-	O	-	-	O	O	O
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.												

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	51%	
Atmospheric Pressure:	1015Pa	
Temperature:	TN	25 °C
Voltage:	VN	DC 5V

NOTE: VL= lower extreme test voltage
 VN= nominal voltage
 VH= upper extreme test voltage
 TN= normal temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T4380	PF-1N6C3V

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)



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		± 4.8dB (above 1GHz)
8	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
		± 4.8dB (Above 1GHz)
9	Temperature test	± 1°C
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Spurious Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2021-09-22
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2021-09-22
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2021-09-14
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2021-09-14



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Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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6 Radio Spectrum Matter Test Results

6.1 Field strength of spurious radiation

Test Requirement:	§2.1051, §27.53(m)
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	≤ -25dBm (LTE Band 41)
	≤ -13dBm (LTE Band 43)
	≤ -13dBm (LTE Band 53)
	≤ -40dBm (LTE Band 48)

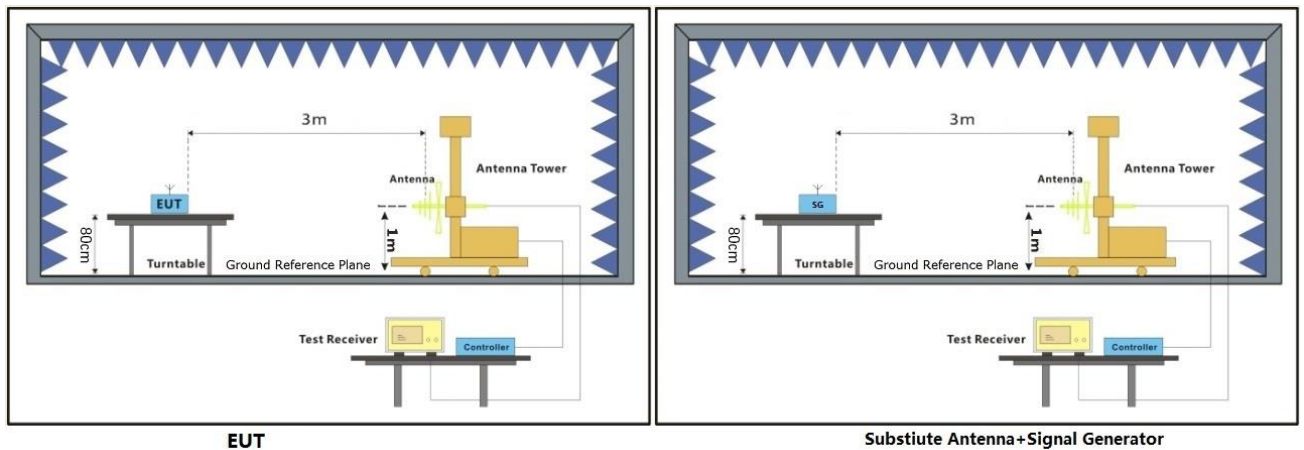
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

Test mode: m: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



LTE Band 41_QPSK_5MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4997.00	-55.47	0.76	9.70	-46.53	-25	-21.53	Horizontal	Pass
7495.50	-59.10	1.00	12.90	-47.20	-25	-22.20	Horizontal	Pass
9994.00	-56.06	1.27	13.00	-44.33	-25	-19.33	Horizontal	Pass
4997.00	-57.41	0.76	9.70	-48.47	-25	-23.47	Vertical	Pass
7495.50	-59.40	1.00	12.90	-47.50	-25	-22.50	Vertical	Pass
9994.00	-56.32	1.27	13.00	-44.59	-25	-19.59	Vertical	Pass

LTE Band 41_QPSK_5MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5186.00	-58.15	0.82	9.60	-49.37	-25	-24.37	Horizontal	Pass
7779.00	-59.14	0.99	13.20	-46.93	-25	-21.93	Horizontal	Pass
10372.00	-55.82	1.26	12.70	-44.38	-25	-19.38	Horizontal	Pass
5186.00	-55.78	0.82	9.60	-47.00	-25	-22.00	Vertical	Pass
7779.00	-60.00	0.99	13.20	-47.79	-25	-22.79	Vertical	Pass
10372.00	-57.92	1.26	12.70	-46.48	-25	-21.48	Vertical	Pass

LTE Band 41_QPSK_5MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5375.00	-58.34	0.82	9.60	-49.56	-25	-24.56	Horizontal	Pass
8062.50	-58.55	1.01	12.90	-46.66	-25	-21.66	Horizontal	Pass
10750.00	-57.58	1.49	13.50	-45.57	-25	-20.57	Horizontal	Pass
5375.00	-57.94	0.82	9.60	-49.16	-25	-24.16	Vertical	Pass
8062.50	-57.44	1.01	12.90	-45.55	-25	-20.55	Vertical	Pass
10750.00	-58.32	1.49	13.50	-46.31	-25	-21.31	Vertical	Pass



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LTE Band 41_QPSK_10MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5002.00	-57.24	0.82	9.60	-48.46	-25	-23.46	Horizontal	Pass
7503.00	-59.66	0.99	13.20	-47.45	-25	-22.45	Horizontal	Pass
10004.00	-54.79	1.26	12.70	-43.35	-25	-18.35	Horizontal	Pass
5002.00	-56.13	0.82	9.60	-47.35	-25	-22.35	Vertical	Pass
7503.00	-58.33	0.99	13.20	-46.12	-25	-21.12	Vertical	Pass
10004.00	-57.57	1.26	12.70	-46.13	-25	-21.13	Vertical	Pass

LTE Band 41_QPSK_10MHz_Middle Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
5186.00	-57.12	0.82	9.60	-48.34	-25	-23.34	Horizontal	Pass
7779.00	-57.80	0.99	13.20	-45.59	-25	-20.59	Horizontal	Pass
10372.00	-57.74	1.26	12.70	-46.30	-25	-21.30	Horizontal	Pass
5186.00	-57.18	0.82	9.60	-48.40	-25	-23.40	Vertical	Pass
7779.00	-59.80	0.99	13.20	-47.59	-25	-22.59	Vertical	Pass
10372.00	-56.31	1.26	12.70	-44.87	-25	-19.87	Vertical	Pass

LTE Band 41_QPSK_10MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5370.00	-57.78	0.82	9.60	-49.00	-25	-24.00	Horizontal	Pass
8055.00	-59.35	1.01	12.90	-47.46	-25	-22.46	Horizontal	Pass
10740.00	-56.66	1.49	13.50	-44.65	-25	-19.65	Horizontal	Pass
5370.00	-56.86	0.82	9.60	-48.08	-25	-23.08	Vertical	Pass
8055.00	-58.97	1.01	12.90	-47.08	-25	-22.08	Vertical	Pass
10740.00	-56.80	1.49	13.50	-44.79	-25	-19.79	Vertical	Pass



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LTE Band 41_QPSK_15MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5007.00	-57.37	0.82	9.60	-48.59	-25	-23.59	Horizontal	Pass
7510.50	-60.35	0.99	13.20	-48.14	-25	-23.14	Horizontal	Pass
10014.00	-55.91	1.26	12.70	-44.47	-25	-19.47	Horizontal	Pass
5007.00	-56.83	0.82	9.60	-48.05	-25	-23.05	Vertical	Pass
7510.50	-60.97	0.99	13.20	-48.76	-25	-23.76	Vertical	Pass
10014.00	-57.10	1.26	12.70	-45.66	-25	-20.66	Vertical	Pass

LTE Band 41_QPSK_15MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5186.00	-57.75	0.82	9.60	-48.97	-25	-23.97	Horizontal	Pass
7779.00	-58.77	0.99	13.20	-46.56	-25	-21.56	Horizontal	Pass
10372.00	-57.59	1.26	12.70	-46.15	-25	-21.15	Horizontal	Pass
5186.00	-57.37	0.82	9.60	-48.59	-25	-23.59	Vertical	Pass
7779.00	-59.88	0.99	13.20	-47.67	-25	-22.67	Vertical	Pass
10372.00	-55.80	1.26	12.70	-44.36	-25	-19.36	Vertical	Pass

LTE Band 41_QPSK_15MHz_High Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
5365.00	-56.07	0.82	9.60	-47.29	-25	-22.29	Horizontal	Pass
8047.50	-58.23	1.01	12.90	-46.34	-25	-21.34	Horizontal	Pass
10730.00	-56.97	1.49	13.50	-44.96	-25	-19.96	Horizontal	Pass
5365.00	-57.92	0.82	9.60	-49.14	-25	-24.14	Vertical	Pass
8047.50	-57.60	1.01	12.90	-45.71	-25	-20.71	Vertical	Pass
10730.00	-57.41	1.49	13.50	-45.40	-25	-20.40	Vertical	Pass



LTE Band 41_QPSK_20MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5012.00	-58.78	0.82	9.60	-50.00	-25	-25.00	Horizontal	Pass
7518.00	-59.92	0.99	13.20	-47.71	-25	-22.71	Horizontal	Pass
10024.00	-56.44	1.26	12.70	-45.00	-25	-20.00	Horizontal	Pass
5012.00	-59.14	0.82	9.60	-50.36	-25	-25.36	Vertical	Pass
7518.00	-59.88	0.99	13.20	-47.67	-25	-22.67	Vertical	Pass
10024.00	-55.83	1.26	12.70	-44.39	-25	-19.39	Vertical	Pass

LTE Band 41_QPSK_20MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5186.00	-55.91	0.82	9.60	-47.13	-25	-22.13	Horizontal	Pass
7779.00	-58.01	0.99	13.20	-45.80	-25	-20.80	Horizontal	Pass
10372.00	-57.88	1.26	12.70	-46.44	-25	-21.44	Horizontal	Pass
5186.00	-57.00	0.82	9.60	-48.22	-25	-23.22	Vertical	Pass
7779.00	-58.74	0.99	13.20	-46.53	-25	-21.53	Vertical	Pass
10372.00	-57.61	1.26	12.70	-46.17	-25	-21.17	Vertical	Pass

LTE Band 41_QPSK_20MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
5360.00	-56.80	0.82	9.60	-48.02	-25	-23.02	Horizontal	Pass
8040.00	-56.02	1.01	12.90	-44.13	-25	-19.13	Horizontal	Pass
10720.00	-58.55	1.49	13.50	-46.54	-25	-21.54	Horizontal	Pass
5360.00	-58.53	0.82	9.60	-49.75	-25	-24.75	Vertical	Pass
8040.00	-58.30	1.01	12.90	-46.41	-25	-21.41	Vertical	Pass
10720.00	-57.25	1.49	13.50	-45.24	-25	-20.24	Vertical	Pass



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LTE Band 43_QPSK_5MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7205.00	-56.98	1.00	12.90	-45.08	-13	-32.08	Horizontal	Pass
10807.50	-52.34	1.49	13.50	-40.33	-13	-27.33	Horizontal	Pass
14410.00	-50.16	1.67	13.60	-38.23	-13	-25.23	Horizontal	Pass
7205.00	-56.15	1.00	12.90	-44.25	-13	-31.25	Vertical	Pass
10807.50	-53.51	1.49	13.50	-41.50	-13	-28.50	Vertical	Pass
14410.00	-50.61	1.67	13.60	-38.68	-13	-25.68	Vertical	Pass

LTE Band 43_QPSK_5MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7400.00	-57.13	1.00	12.90	-45.23	-13	-32.23	Horizontal	Pass
11100.00	-53.84	1.59	13.60	-41.83	-13	-28.83	Horizontal	Pass
14800.00	-49.38	1.37	12.40	-38.35	-13	-25.35	Horizontal	Pass
7400.00	-57.44	1.00	12.90	-45.54	-13	-32.54	Vertical	Pass
11100.00	-52.58	1.59	13.60	-40.57	-13	-27.57	Vertical	Pass
14800.00	-50.59	1.37	12.40	-39.56	-13	-26.56	Vertical	Pass

LTE Band 43_QPSK_5MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7595.00	-57.52	0.99	13.20	-45.31	-13	-32.31	Horizontal	Pass
11392.50	-53.69	1.59	13.60	-41.68	-13	-28.68	Horizontal	Pass
15190.00	-48.00	1.44	13.30	-36.14	-13	-23.14	Horizontal	Pass
7595.00	-57.96	0.99	13.20	-45.75	-13	-32.75	Vertical	Pass
11392.50	-53.45	1.59	13.60	-41.44	-13	-28.44	Vertical	Pass
15190.00	-49.41	1.44	13.30	-37.55	-13	-24.55	Vertical	Pass



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LTE Band 43_QPSK_10MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7210.00	-56.27	1.00	12.90	-44.37	-13	-31.37	Horizontal	Pass
10815.00	-53.56	1.49	13.50	-41.55	-13	-28.55	Horizontal	Pass
14420.00	-50.08	1.67	13.60	-38.15	-13	-25.15	Horizontal	Pass
7210.00	-57.20	1.00	12.90	-45.30	-13	-32.30	Vertical	Pass
10815.00	-53.13	1.49	13.50	-41.12	-13	-28.12	Vertical	Pass
14420.00	-50.25	1.67	13.60	-38.32	-13	-25.32	Vertical	Pass

LTE Band 43_QPSK_10MHz_Middle Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
7400.00	-57.57	1.00	12.90	-45.67	-13	-32.67	Horizontal	Pass
11100.00	-54.19	1.59	13.60	-42.18	-13	-29.18	Horizontal	Pass
14800.00	-49.73	1.37	12.40	-38.70	-13	-25.70	Horizontal	Pass
7400.00	-57.13	1.00	12.90	-45.23	-13	-32.23	Vertical	Pass
11100.00	-53.63	1.59	13.60	-41.62	-13	-28.62	Vertical	Pass
14800.00	-50.68	1.37	12.40	-39.65	-13	-26.65	Vertical	Pass

LTE Band 43_QPSK_10MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7590.00	-57.44	0.99	13.20	-45.23	-13	-32.23	Horizontal	Pass
11385.00	-54.71	1.59	13.60	-42.70	-13	-29.70	Horizontal	Pass
15180.00	-49.69	1.44	13.30	-37.83	-13	-24.83	Horizontal	Pass
7590.00	-57.46	0.99	13.20	-45.25	-13	-32.25	Vertical	Pass
11385.00	-52.45	1.59	13.60	-40.44	-13	-27.44	Vertical	Pass
15180.00	-49.81	1.44	13.30	-37.95	-13	-24.95	Vertical	Pass



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LTE Band 43_QPSK_15MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7215.00	-57.34	1.00	12.90	-45.44	-13	-32.44	Horizontal	Pass
10822.50	-53.59	1.49	13.50	-41.58	-13	-28.58	Horizontal	Pass
14430.00	-50.57	1.67	13.60	-38.64	-13	-25.64	Horizontal	Pass
7215.00	-56.61	1.00	12.90	-44.71	-13	-31.71	Vertical	Pass
10822.50	-53.78	1.49	13.50	-41.77	-13	-28.77	Vertical	Pass
14430.00	-50.09	1.67	13.60	-38.16	-13	-25.16	Vertical	Pass

LTE Band 43_QPSK_15MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7400.00	-57.34	1.00	12.90	-45.44	-13	-32.44	Horizontal	Pass
11100.00	-54.07	1.59	13.60	-42.06	-13	-29.06	Horizontal	Pass
14800.00	-48.32	1.37	12.40	-37.29	-13	-24.29	Horizontal	Pass
7400.00	-56.74	1.00	12.90	-44.84	-13	-31.84	Vertical	Pass
11100.00	-54.43	1.59	13.60	-42.42	-13	-29.42	Vertical	Pass
14800.00	-49.62	1.37	12.40	-38.59	-13	-25.59	Vertical	Pass

LTE Band 43_QPSK_15MHz_High Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
7585.00	-58.29	0.99	13.20	-46.08	-13	-33.08	Horizontal	Pass
11377.50	-54.72	1.59	13.60	-42.71	-13	-29.71	Horizontal	Pass
15170.00	-50.42	1.44	13.30	-38.56	-13	-25.56	Horizontal	Pass
7585.00	-58.07	0.99	13.20	-45.86	-13	-32.86	Vertical	Pass
11377.50	-53.99	1.59	13.60	-41.98	-13	-28.98	Vertical	Pass
15170.00	-48.68	1.44	13.30	-36.82	-13	-23.82	Vertical	Pass



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LTE Band 43_QPSK_20MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7220.00	-58.25	1.00	12.90	-46.35	-13	-33.35	Horizontal	Pass
10830.00	-53.80	1.49	13.50	-41.79	-13	-28.79	Horizontal	Pass
14440.00	-50.16	1.67	13.60	-38.23	-13	-25.23	Horizontal	Pass
7220.00	-57.36	1.00	12.90	-45.46	-13	-32.46	Vertical	Pass
10830.00	-54.30	1.49	13.50	-42.29	-13	-29.29	Vertical	Pass
14440.00	-49.36	1.67	13.60	-37.43	-13	-24.43	Vertical	Pass

LTE Band 43_QPSK_20MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7400.00	-58.37	1.00	12.90	-46.47	-13	-33.47	Horizontal	Pass
11100.00	-54.73	1.59	13.60	-42.72	-13	-29.72	Horizontal	Pass
14800.00	-50.33	1.37	12.40	-39.30	-13	-26.30	Horizontal	Pass
7400.00	-57.14	1.00	12.90	-45.24	-13	-32.24	Vertical	Pass
11100.00	-53.65	1.59	13.60	-41.64	-13	-28.64	Vertical	Pass
14800.00	-48.50	1.37	12.40	-37.47	-13	-24.47	Vertical	Pass

LTE Band 43_QPSK_20MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7580.00	-58.57	0.99	13.20	-46.36	-13	-33.36	Horizontal	Pass
11370.00	-53.29	1.59	13.60	-41.28	-13	-28.28	Horizontal	Pass
15160.00	-48.13	1.44	13.30	-36.27	-13	-23.27	Horizontal	Pass
7580.00	-57.81	0.99	13.20	-45.60	-13	-32.60	Vertical	Pass
11370.00	-53.25	1.59	13.60	-41.24	-13	-28.24	Vertical	Pass
15160.00	-50.17	1.44	13.30	-38.31	-13	-25.31	Vertical	Pass



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LTE Band 48_QPSK_5MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7105.00	-61.50	1.00	12.90	-49.60	-40	-9.60	Horizontal	Pass
10657.50	-63.99	1.49	13.50	-51.98	-40	-11.98	Horizontal	Pass
14210.00	-63.39	1.67	13.60	-51.46	-40	-11.46	Horizontal	Pass
7105.00	-61.08	1.00	12.90	-49.18	-40	-9.18	Vertical	Pass
10657.50	-64.50	1.49	13.50	-52.49	-40	-12.49	Vertical	Pass
14210.00	-63.27	1.67	13.60	-51.34	-40	-11.34	Vertical	Pass

LTE Band 48_QPSK_5MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7250.00	-61.23	1.00	12.90	-49.33	-40	-9.33	Horizontal	Pass
10875.00	-64.11	1.49	13.50	-52.10	-40	-12.10	Horizontal	Pass
14500.00	-60.54	1.37	12.40	-49.51	-40	-9.51	Horizontal	Pass
7250.00	-60.14	1.00	12.90	-48.24	-40	-8.24	Vertical	Pass
10875.00	-64.18	1.49	13.50	-52.17	-40	-12.17	Vertical	Pass
14500.00	-60.33	1.37	12.40	-49.30	-40	-9.30	Vertical	Pass

LTE Band 48_QPSK_5MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7395.00	-60.02	1.00	12.90	-48.12	-40	-8.12	Horizontal	Pass
11092.50	-61.50	1.59	13.60	-49.49	-40	-9.49	Horizontal	Pass
14790.00	-57.12	1.37	12.40	-46.09	-40	-6.09	Horizontal	Pass
7395.00	-60.26	1.00	12.90	-48.36	-40	-8.36	Vertical	Pass
11092.50	-61.29	1.59	13.60	-49.28	-40	-9.28	Vertical	Pass
14790.00	-57.63	1.37	12.40	-46.60	-40	-6.60	Vertical	Pass



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LTE Band 48_QPSK_10MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7110.00	-60.95	1.00	12.90	-49.05	-40	-9.05	Horizontal	Pass
10665.00	-63.09	1.49	13.50	-51.08	-40	-11.08	Horizontal	Pass
14220.00	-62.43	1.67	13.60	-50.50	-40	-10.50	Horizontal	Pass
7110.00	-60.90	1.00	12.90	-49.00	-40	-9.00	Vertical	Pass
10665.00	-63.75	1.49	13.50	-51.74	-40	-11.74	Vertical	Pass
14220.00	-62.60	1.67	13.60	-50.67	-40	-10.67	Vertical	Pass

LTE Band 48_QPSK_10MHz_Middle Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
7250.00	-60.75	1.00	12.90	-48.85	-40	-8.85	Horizontal	Pass
10875.00	-63.45	1.49	13.50	-51.44	-40	-11.44	Horizontal	Pass
14500.00	-61.12	1.37	12.40	-50.09	-40	-10.09	Horizontal	Pass
7250.00	-60.91	1.00	12.90	-49.01	-40	-9.01	Vertical	Pass
10875.00	-64.31	1.49	13.50	-52.30	-40	-12.30	Vertical	Pass
14500.00	-60.29	1.37	12.40	-49.26	-40	-9.26	Vertical	Pass

LTE Band 48_QPSK_10MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7390.00	-60.98	1.00	12.90	-49.08	-40	-9.08	Horizontal	Pass
11085.00	-62.72	1.59	13.60	-50.71	-40	-10.71	Horizontal	Pass
14780.00	-57.86	1.37	12.40	-46.83	-40	-6.83	Horizontal	Pass
7390.00	-61.38	1.00	12.90	-49.48	-40	-9.48	Vertical	Pass
11085.00	-63.38	1.59	13.60	-51.37	-40	-11.37	Vertical	Pass
14780.00	-58.10	1.37	12.40	-47.07	-40	-7.07	Vertical	Pass



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LTE Band 48_QPSK_15MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7115.00	-62.12	1.00	12.90	-50.22	-40	-10.22	Horizontal	Pass
10672.50	-64.23	1.49	13.50	-52.22	-40	-12.22	Horizontal	Pass
14230.00	-62.82	1.67	13.60	-50.89	-40	-10.89	Horizontal	Pass
7115.00	-62.02	1.00	12.90	-50.12	-40	-10.12	Vertical	Pass
10672.50	-63.31	1.49	13.50	-51.30	-40	-11.30	Vertical	Pass
14230.00	-63.07	1.67	13.60	-51.14	-40	-11.14	Vertical	Pass

LTE Band 48_QPSK_15MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7250.00	-61.50	1.00	12.90	-49.60	-40	-9.60	Horizontal	Pass
10875.00	-62.79	1.49	13.50	-50.78	-40	-10.78	Horizontal	Pass
14500.00	-61.04	1.37	12.40	-50.01	-40	-10.01	Horizontal	Pass
7250.00	-61.07	1.00	12.90	-49.17	-40	-9.17	Vertical	Pass
10875.00	-64.17	1.49	13.50	-52.16	-40	-12.16	Vertical	Pass
14500.00	-60.26	1.37	12.40	-49.23	-40	-9.23	Vertical	Pass

LTE Band 48_QPSK_15MHz_High Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
7385.00	-61.78	1.00	12.90	-49.88	-40	-9.88	Horizontal	Pass
11077.50	-61.53	1.59	13.60	-49.52	-40	-9.52	Horizontal	Pass
14770.00	-57.20	1.37	12.40	-46.17	-40	-6.17	Horizontal	Pass
7385.00	-61.13	1.00	12.90	-49.23	-40	-9.23	Vertical	Pass
11077.50	-61.02	1.59	13.60	-49.01	-40	-9.01	Vertical	Pass
14770.00	-57.71	1.37	12.40	-46.68	-40	-6.68	Vertical	Pass



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LTE Band 48_QPSK_20MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7120.00	-61.25	1.00	12.90	-49.35	-40	-9.35	Horizontal	Pass
10680.00	-62.98	1.49	13.50	-50.97	-40	-10.97	Horizontal	Pass
14240.00	-62.15	1.67	13.60	-50.22	-40	-10.22	Horizontal	Pass
7120.00	-60.09	1.00	12.90	-48.19	-40	-8.19	Vertical	Pass
10680.00	-64.07	1.49	13.50	-52.06	-40	-12.06	Vertical	Pass
14240.00	-63.10	1.67	13.60	-51.17	-40	-11.17	Vertical	Pass

LTE Band 48_QPSK_20MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7250.00	-61.30	1.00	12.90	-49.40	-40	-9.40	Horizontal	Pass
10875.00	-64.07	1.49	13.50	-52.06	-40	-12.06	Horizontal	Pass
14500.00	-60.97	1.37	12.40	-49.94	-40	-9.94	Horizontal	Pass
7250.00	-60.24	1.00	12.90	-48.34	-40	-8.34	Vertical	Pass
10875.00	-63.19	1.49	13.50	-51.18	-40	-11.18	Vertical	Pass
14500.00	-60.95	1.37	12.40	-49.92	-40	-9.92	Vertical	Pass

LTE Band 48_QPSK_20MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
7380.00	-60.27	1.00	12.90	-48.37	-40	-8.37	Horizontal	Pass
11070.00	-61.77	1.59	13.60	-49.76	-40	-9.76	Horizontal	Pass
14760.00	-57.39	1.37	12.40	-46.36	-40	-6.36	Horizontal	Pass
7380.00	-60.45	1.00	12.90	-48.55	-40	-8.55	Vertical	Pass
11070.00	-62.11	1.59	13.60	-50.10	-40	-10.10	Vertical	Pass
14760.00	-57.30	1.37	12.40	-46.27	-40	-6.27	Vertical	Pass



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LTE Band 53_QPSK_1.4MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4968.40	-55.99	0.76	9.70	-47.05	-13	-34.05	Horizontal	Pass
7452.60	-56.98	1.00	12.90	-45.08	-13	-32.08	Horizontal	Pass
9936.80	-54.21	1.27	13.00	-42.48	-13	-29.48	Horizontal	Pass
4968.40	-54.79	0.76	9.70	-45.85	-13	-32.85	Vertical	Pass
7452.60	-57.03	1.00	12.90	-45.13	-13	-32.13	Vertical	Pass
9936.80	-55.52	1.27	13.00	-43.79	-13	-30.79	Vertical	Pass

LTE Band 53_QPSK_1.4MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4978.60	-55.48	0.76	9.70	-46.54	-13	-33.54	Horizontal	Pass
7467.90	-57.13	1.00	12.90	-45.23	-13	-32.23	Horizontal	Pass
9957.20	-55.07	1.27	13.00	-43.34	-13	-30.34	Horizontal	Pass
4978.60	-57.14	0.76	9.70	-48.20	-13	-35.20	Vertical	Pass
7467.90	-57.44	1.00	12.90	-45.54	-13	-32.54	Vertical	Pass
9957.20	-55.37	1.27	13.00	-43.64	-13	-30.64	Vertical	Pass

LTE Band 53_QPSK_1.4MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4988.60	-56.54	0.76	9.70	-47.60	-13	-34.60	Horizontal	Pass
7482.90	-57.21	1.00	12.90	-45.31	-13	-32.31	Horizontal	Pass
9977.20	-55.55	1.27	13.00	-43.82	-13	-30.82	Horizontal	Pass
4988.60	-56.44	0.76	9.70	-47.50	-13	-34.50	Vertical	Pass
7482.90	-57.75	1.00	12.90	-45.85	-13	-32.85	Vertical	Pass
9977.20	-55.75	1.27	13.00	-44.02	-13	-31.02	Vertical	Pass



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LTE Band 53_QPSK_3MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4970.00	-56.37	0.76	9.70	-47.43	-13	-34.43	Horizontal	Pass
7455.00	-56.27	1.00	12.90	-44.37	-13	-31.37	Horizontal	Pass
9940.00	-55.33	1.27	13.00	-43.60	-13	-30.60	Horizontal	Pass
4970.00	-56.97	0.76	9.70	-48.03	-13	-35.03	Vertical	Pass
7455.00	-57.20	1.00	12.90	-45.30	-13	-32.30	Vertical	Pass
9940.00	-55.08	1.27	13.00	-43.35	-13	-30.35	Vertical	Pass

LTE Band 53_QPSK_3MHz_Middle Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
4978.60	-57.69	0.76	9.70	-48.75	-13	-35.75	Horizontal	Pass
7467.90	-57.57	1.00	12.90	-45.67	-13	-32.67	Horizontal	Pass
9957.20	-56.17	1.27	13.00	-44.44	-13	-31.44	Horizontal	Pass
4978.60	-56.17	0.76	9.70	-47.23	-13	-34.23	Vertical	Pass
7467.90	-57.13	1.00	12.90	-45.23	-13	-32.23	Vertical	Pass
9957.20	-55.73	1.27	13.00	-44.00	-13	-31.00	Vertical	Pass

LTE Band 53_QPSK_3MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4987.00	-57.05	0.76	9.70	-48.11	-13	-35.11	Horizontal	Pass
7480.50	-57.13	1.00	12.90	-45.23	-13	-32.23	Horizontal	Pass
9974.00	-55.98	1.27	13.00	-44.25	-13	-31.25	Horizontal	Pass
4987.00	-56.83	0.76	9.70	-47.89	-13	-34.89	Vertical	Pass
7480.50	-57.15	1.00	12.90	-45.25	-13	-32.25	Vertical	Pass
9974.00	-55.67	1.27	13.00	-43.94	-13	-30.94	Vertical	Pass



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LTE Band 53_QPSK_5MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4972.00	-55.50	0.76	9.70	-46.56	-13	-33.56	Horizontal	Pass
7458.00	-57.34	1.00	12.90	-45.44	-13	-32.44	Horizontal	Pass
9944.00	-54.83	1.27	13.00	-43.10	-13	-30.10	Horizontal	Pass
4972.00	-57.14	0.76	9.70	-48.20	-13	-35.20	Vertical	Pass
7458.00	-56.61	1.00	12.90	-44.71	-13	-31.71	Vertical	Pass
9944.00	-55.42	1.27	13.00	-43.69	-13	-30.69	Vertical	Pass

LTE Band 53_QPSK_5MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4978.60	-57.09	0.76	9.70	-48.15	-13	-35.15	Horizontal	Pass
7467.90	-57.34	1.00	12.90	-45.44	-13	-32.44	Horizontal	Pass
9957.20	-55.58	1.27	13.00	-43.85	-13	-30.85	Horizontal	Pass
4978.60	-56.83	0.76	9.70	-47.89	-13	-34.89	Vertical	Pass
7467.90	-56.74	1.00	12.90	-44.84	-13	-31.84	Vertical	Pass
9957.20	-56.78	1.27	13.00	-45.05	-13	-32.05	Vertical	Pass

LTE Band 53_QPSK_5MHz_High Channel								
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(H/V)	
4985.00	-56.89	0.76	9.70	-47.95	-13	-34.95	Horizontal	Pass
7477.50	-57.98	1.00	12.90	-46.08	-13	-33.08	Horizontal	Pass
9970.00	-56.47	1.27	13.00	-44.74	-13	-31.74	Horizontal	Pass
4985.00	-59.04	0.76	9.70	-50.10	-13	-37.10	Vertical	Pass
7477.50	-57.76	1.00	12.90	-45.86	-13	-32.86	Vertical	Pass
9970.00	-55.67	1.27	13.00	-43.94	-13	-30.94	Vertical	Pass



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LTE Band 53_QPSK_10MHz_Low Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4977.00	-57.20	0.76	9.70	-48.26	-13	-35.26	Horizontal	Pass
7465.50	-58.25	1.00	12.90	-46.35	-13	-33.35	Horizontal	Pass
9954.00	-54.62	1.27	13.00	-42.89	-13	-29.89	Horizontal	Pass
4977.00	-56.68	0.76	9.70	-47.74	-13	-34.74	Vertical	Pass
7465.50	-57.36	1.00	12.90	-45.46	-13	-32.46	Vertical	Pass
9954.00	-56.05	1.27	13.00	-44.32	-13	-31.32	Vertical	Pass

LTE Band 53_QPSK_10MHz_Middle Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4978.60	-57.74	0.76	9.70	-48.80	-13	-35.80	Horizontal	Pass
7467.90	-58.37	1.00	12.90	-46.47	-13	-33.47	Horizontal	Pass
9957.20	-55.66	1.27	13.00	-43.93	-13	-30.93	Horizontal	Pass
4978.60	-55.84	0.76	9.70	-46.90	-13	-33.90	Vertical	Pass
7467.90	-57.14	1.00	12.90	-45.24	-13	-32.24	Vertical	Pass
9957.20	-55.36	1.27	13.00	-43.63	-13	-30.63	Vertical	Pass

LTE Band 53_QPSK_10MHz_High Channel								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Over Limit (dB)	Polarization (H/V)	Result
4980.00	-57.61	0.76	9.70	-48.67	-13	-35.67	Horizontal	Pass
7470.00	-58.26	1.00	12.90	-46.36	-13	-33.36	Horizontal	Pass
9960.00	-55.36	1.27	13.00	-43.63	-13	-30.63	Horizontal	Pass
4980.00	-57.63	0.76	9.70	-48.69	-13	-35.69	Vertical	Pass
7470.00	-57.50	1.00	12.90	-45.60	-13	-32.60	Vertical	Pass
9960.00	-55.49	1.27	13.00	-43.76	-13	-30.76	Vertical	Pass

Remark:

- 1) Pretest with normal and extreme conditions, only the worst-case data was showed in the test report.
- 2) We have tested all mode, modulation and all Channel, but only the worst-case data displayed in this report.



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7 Photographs

7.1 Setup photo

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -

