



Test Report No.: RF141111N015-6



FCC TEST REPORT (PART 27)

Product: LTE phone
Model No.: XP5700
FCC ID: WYPL15V013AA
Applicant: Sonim Technologies, Inc.
Address: 1825 S. Grant St., Suite 200., San Mateo, CA, 94402
Manufacturer: Sonim Technologies, Inc.
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Report No.: RF141111N015-6
Received Date: Nov. 11, 2014
Test Date: Nov. 12, 2014 ~ Dec. 15, 2014
Issued Date: Dec. 16, 2014

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141111N015-6	Original release	Dec. 16, 2014



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1 CERTIFICATION

PRODUCT: LTE phone
BRAND: Sonim
MODEL NO.: XP5700
APPLICANT: Sonim Technologies, Inc.
TESTED: Nov. 12, 2014 ~ Dec. 15, 2014
TEST SAMPLE: Identical Prototype
STANDARDS: **FCC Part 27, Subpart C, M**
FCC Part 2
ANSI C63.4-2003

The above equipment has been tested by **Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

TESTED BY :  , **DATE :** Dec. 16, 2014
Glyn He/ Project Engineer

APPROVED BY :  , **DATE :** Dec. 16, 2014
Sam Tung / Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(h)	Equivalent Isotropically Radiated Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
2.1051 27.53(m)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(m)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(m)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -10.18dB at 12675MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.74dB
	30MHz ~ 1GMHz	3.55dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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2.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 13,14	May 12,15
Bilog Antenna	Teseq	CBL 6111D	27089	Jun. 27, 14	Jun. 26, 15
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30, 14	May 29, 16
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Feb. 13,14	Feb. 12,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 05,14	Mar. 04, 15
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 20,14	Nov. 19,15
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 13,14	May 12,15
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Apr. 19,14	Apr. 18,15
Test Software	ADT	ADT_Radiated V7.6.15.9.2	N/A	N/A	N/A
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 05,14	Dec. 04,15
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 13,14	May 12,15
Power Meter	Anritsu	ML2495A	1139001	Feb. 21,14	Feb. 20,15
Power Sensor	Anritsu	MA2411B	1126068	Feb. 21,14	Feb. 20,15
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 27,14	Oct. 26,15
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.04,14	Sep. 03,15
Oscilloscope	Agilent	DSO9254A	MY51260160	Oct. 17, 14	Oct. 16, 15
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 05,14	Nov. 04,15
Signal Generator	Agilent	N5183A	MY50140980	Nov. 05,14	Nov. 04,15
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Mar.14, 14	Mar.13, 15
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 04,14	Sep. 03,15

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in Dongguan 966 Chamber.
 3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 502831.



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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE phone	
MODEL NO.	XP5700	
TYPE NUMBER	L15V013AA, L15V013BA, L15V013CA	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.7Vdc (battery)	
MODULATION TECHNOLOGY	LTE Band 7	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2565MHz
	LTE Band 7 Channel Bandwidth: 15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band 7 Channel Bandwidth: 20MHz	2510MHz ~ 2560MHz
EMISSION DESIGNATOR	LTE Band 7 Channel Bandwidth: 5MHz	QPSK: 4M49G7D
		16QAM: 4M49W7D
	LTE Band 7 Channel Bandwidth: 10MHz	QPSK: 8M94G7D
		16QAM: 8M97W7D
	LTE Band 7 Channel Bandwidth: 15MHz	QPSK: 13M4G7D
		16QAM: 13M4W7D
MAX. EIRP POWER	LTE Band 7 Channel Bandwidth: 5MHz	141mW
		150mW
	LTE Band 7 Channel Bandwidth: 10MHz	150mW
		150mW
ANTENNA TYPE	Fixed Internal antenna with 2dBi gain	
HW VERSION	A	
SW VERSION	5A.0.0-00-4.4.2-10.01.05	
I/O PORTS	Refer to users' manual	
DATA CABLE	USB Cable: Shielded, Detachable, 1.1m	



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NOTE:

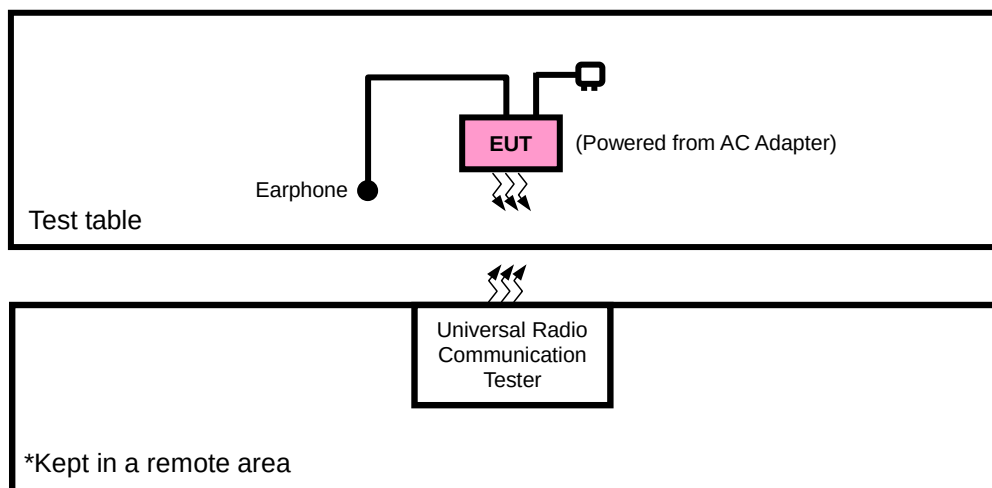
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT was powered by the following adapter:

ADAPTER	
BRAND:	Sonim
MODEL:	S14C02
INPUT:	AC 100-240V, 200mA
OUTPUT:	DC 5V, 1200mA

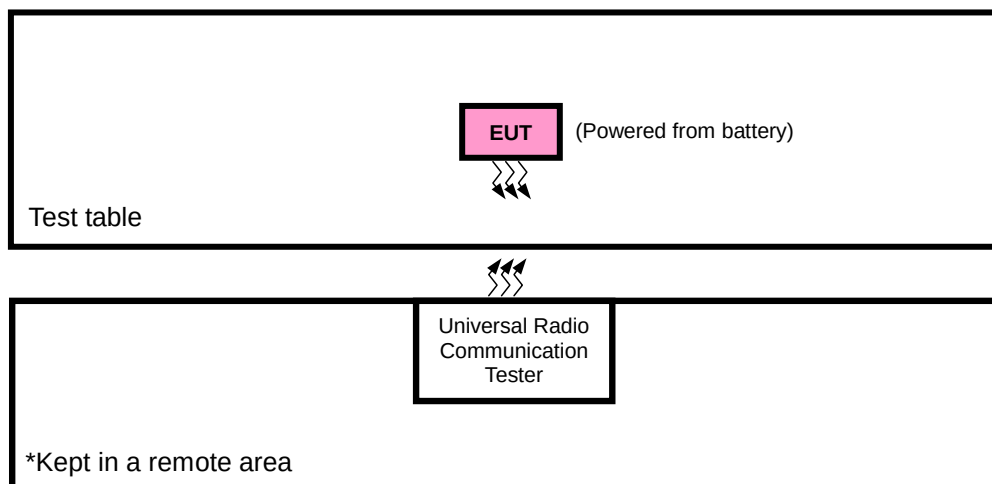
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.I.R.P TEST





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3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A
3	Earphone	Minami	ME-816B5-E	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m
3	DC Line: Unshielded, Detachable 1.2m

NOTE: All power cords of the above support units are non shielded (1.8m).

3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + Earphone with LTE link
B	EUT + Battery + Earphone with LTE link

LTE BAND 7

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20850 to 21350	20850, 21100 21350	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 0RB Offset
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	21100	20MHz	QPSK	1 RB / 0 RB Offset
B	OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20850 to 21350	20850, 21100 21350	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
B	PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 0RB Offset
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20850 to 21350	20850, 21100 21350	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	BAND EDGE	20775 to 21425	20775, 21425	5MHz	QPSK	1 RB / 12 RB Offset
						25 RB / 0 RB Offset
		20800 to 21400	20800, 21400	10MHz	QPSK	1 RB / 24 RB Offset
						50 RB / 0 RB Offset
		20825 to 21375	20825, 21375	15MHz	QPSK	1 RB / 37 RB Offset
						75 RB / 0 RB Offset
		20850 to 21350	20850, 21350	20MHz	QPSK	1 RB / 50 RB Offset
						100 RB / 0 RB Offset
B	CONDCUDED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 0RB Offset
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	21100	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 0RB Offset
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset
		20850 to 21350	21100	20MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	24deg. C, 60%RH	3.7Vdc from Battery	Blue Zheng
FREQUENCY STABILITY	24deg. C, 61%RH	3.7Vdc from Battery	Yuqiang Yin
OCCUPIED BANDWIDTH	24deg. C, 61%RH	3.7Vdc from Battery	Yuqiang Yin
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	3.7Vdc from Battery	Yuqiang Yin
BAND EDGE	24deg. C, 61%RH	3.7Vdc from Battery	Yuqiang Yin
CONDCUDED EMISSION	24deg. C, 61%RH	3.7Vdc from Battery	Yuqiang Yin
RADIATED EMISSION	24deg. C, 60%RH	5Vdc from adapter	Blue Zheng

3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI C63.4-2003

ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that "User stations are limited to 2 watts" and 27.50(i) specific that "Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage."

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

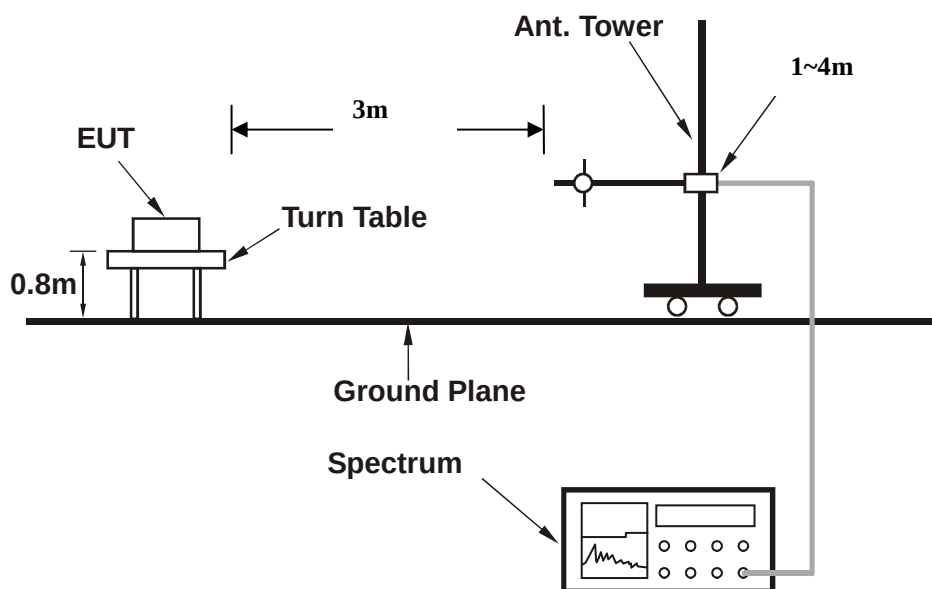
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

CONDUCTED POWER MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

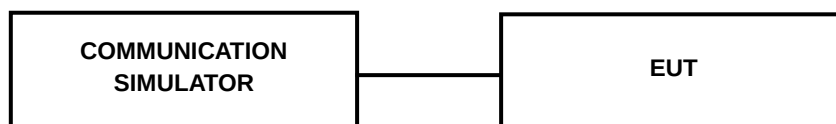
4.1.3 TEST SETUP

EIRP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



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4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	MPR
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz	
5 MHz	QPSK	1	0	24.20	24.29	24.21	0
		1	12	23.21	23.21	23.12	0
		1	24	23.20	24.20	24.08	0
		12	0	23.16	23.25	23.18	1
		12	6	23.11	23.07	23.06	1
		12	13	23.04	23.20	23.12	1
		25	0	23.04	23.22	23.15	1
	16QAM	1	0	23.15	23.24	23.16	1
		1	12	22.16	22.16	22.07	1
		1	24	22.15	23.15	23.03	1
		12	0	22.11	22.20	22.13	2
		12	6	22.06	22.02	22.01	2
		12	13	21.99	22.15	22.07	2
		25	0	21.99	22.17	22.10	2

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400	MPR
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz	
10 MHz	QPSK	1	0	24.29	24.38	24.30	0
		1	24	23.30	23.30	23.21	0
		1	49	23.29	24.29	24.17	0
		25	0	23.25	23.34	23.27	1
		25	12	23.20	23.16	23.15	1
		25	25	23.13	23.29	23.21	1
		50	0	23.13	23.31	23.24	1
	16QAM	1	0	23.24	23.33	23.25	1
		1	24	22.25	22.25	22.16	1
		1	49	22.24	23.24	23.12	1
		25	0	22.20	22.29	22.22	2
		25	12	22.15	22.11	22.10	2
		25	25	22.08	22.24	22.16	2
		50	0	22.08	22.26	22.19	2
BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375	MPR
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz	
15 MHz	QPSK	1	0	24.40	24.49	24.41	0
		1	37	23.41	23.41	23.32	0
		1	74	23.40	24.40	24.28	0
		36	0	23.36	23.45	23.38	1
		36	19	23.31	23.27	23.26	1
		36	39	23.24	23.40	23.32	1
		75	0	23.24	23.42	23.35	1
	16QAM	1	0	23.35	23.44	23.36	1
		1	37	22.36	22.36	22.27	1
		1	74	22.35	23.35	23.23	1
		36	0	22.31	22.40	22.33	2
		36	19	22.26	22.22	22.21	2
		36	39	22.19	22.35	22.27	2
		75	0	22.19	22.37	22.30	2

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low CH 20850	Mid CH 21100	High CH 21350	MPR
				Frequency 2510 MHz	Frequency 2535 MHz	Frequency 2560 MHz	
20 MHz	QPSK	1	0	24.52	24.61	24.53	0
		1	50	23.53	23.53	23.44	0
		1	99	23.52	24.52	24.40	0
		50	0	23.48	23.57	23.50	1
		50	25	23.43	23.39	23.38	1
		50	50	23.36	23.52	23.44	1
		100	0	23.36	23.54	23.47	1
	16QAM	1	0	23.47	23.56	23.48	1
		1	50	22.48	22.48	22.39	1
		1	99	22.47	23.47	23.35	1
		50	0	22.43	22.52	22.45	2
		50	25	22.38	22.34	22.33	2
		50	50	22.31	22.47	22.39	2
		100	0	22.31	22.49	22.42	2



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EIRP

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20775	2502.5	-27.65	42.48	14.83	30.41	H	1
21100	2535.0	-26.95	42.78	15.83	38.28	H	1
21425	2567.5	-26.75	43.97	17.22	52.72	H	1
20775	2502.5	-23.59	45.09	21.50	141.25	V	1
21100	2535.0	-23.76	44.26	20.50	112.20	V	1
21425	2567.5	-23.96	45.15	21.19	131.52	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20775	2502.5	-28.59	42.48	13.89	24.49	H	1
21100	2535.0	-28.03	42.78	14.75	29.85	H	1
21425	2567.5	-29.33	43.97	14.64	29.11	H	1
20775	2502.5	-24.53	45.09	20.56	113.76	V	1
21100	2535.0	-24.03	44.26	20.23	105.44	V	1
21425	2567.5	-24.63	45.15	20.52	112.72	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.



Test Report No.: RF141111N015-6

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20800	2505.0	-27.59	42.41	14.82	30.34	H	1
21100	2535.0	-27.56	42.78	15.22	33.27	H	1
21400	2565.0	-27.41	43.95	16.54	45.08	H	1
20800	2505.0	-23.36	44.77	21.41	138.36	V	1
21100	2535.0	-22.49	44.26	21.77	150.31	V	1
21400	2565.0	-23.47	45.06	21.59	144.21	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20800	2505.0	-28.56	42.41	13.85	24.27	H	1
21100	2535.0	-28.63	42.78	14.15	26.00	H	1
21400	2565.0	-29.02	43.95	14.93	31.12	H	1
20800	2505.0	-24.63	44.77	20.14	103.28	V	1
21100	2535.0	-23.65	44.26	20.61	115.08	V	1
21400	2565.0	-24.39	45.06	20.67	116.68	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)



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CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20825	2507.5	-26.95	42.42	15.47	35.24	H	1
21100	2535.0	-26.47	42.78	16.31	42.76	H	1
21375	2562.5	-27.36	43.81	16.45	44.16	H	1
20825	2507.5	-23.42	44.54	21.12	129.42	V	1
21100	2535.0	-22.51	44.26	21.75	149.62	V	1
21375	2562.5	-23.64	45.19	21.55	142.89	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20825	2507.5	-28.63	42.42	13.79	23.93	H	1
21100	2535.0	-28.65	42.78	14.13	25.88	H	1
21375	2562.5	-27.45	43.81	16.36	43.25	H	1
20825	2507.5	-24.52	44.54	20.02	100.46	V	1
21100	2535.0	-23.65	44.26	20.61	115.08	V	1
21375	2562.5	-24.59	45.19	20.60	114.82	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)



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CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20850	2510.0	-27.86	42.63	14.77	29.99	H	1
21100	2535.0	-28.23	42.78	14.55	28.51	H	1
21350	2560.0	-28.45	43.65	15.20	33.11	H	1
20850	2510.0	-23.25	44.58	21.33	135.83	V	1
21100	2535.0	-22.59	44.26	21.67	146.89	V	1
21350	2560.0	-23.32	45.08	21.76	149.97	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	Limit (W)
20850	2510.0	-28.62	42.63	14.01	25.18	H	1
21100	2535.0	-28.33	42.78	14.45	27.86	H	1
21350	2560.0	-28.79	43.65	14.86	30.62	H	1
20850	2510.0	-24.06	44.58	20.52	112.72	V	1
21100	2535.0	-23.96	44.26	20.30	107.15	V	1
21350	2560.0	-24.26	45.08	20.82	120.78	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

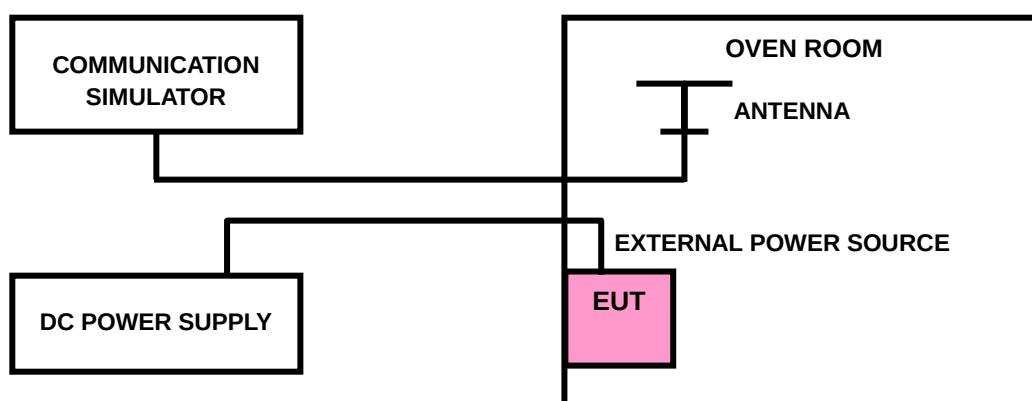
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP





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4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 7				
	5MHz	10MHz	15MHz	20MHz	
3.7	-0.003	-0.005	-0.002	-0.003	2.5
3.5	-0.002	0.002	0.001	-0.002	2.5
4.2	0.002	0.001	0.004	0.001	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.5Vdc to 4.2Vdc.

FREQUENCY ERROR vs. TEMPERATURE

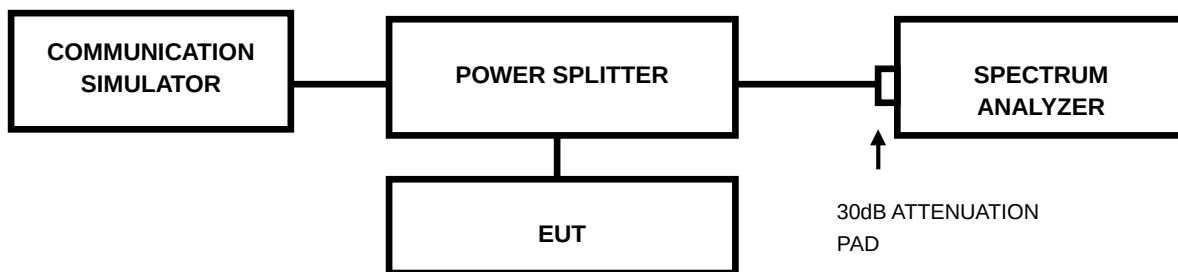
TEMP. (°C)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 7				
	5MHz	10MHz	15MHz	20MHz	
-30	-0.002	-0.001	-0.004	-0.002	2.5
-20	-0.001	0.000	-0.003	-0.001	2.5
-10	0.000	0.000	-0.003	0.001	2.5
0	0.001	0.001	-0.002	0.001	2.5
+10	0.001	0.002	-0.001	0.002	2.5
+20	0.002	0.003	0.001	0.004	2.5
+30	0.002	0.003	0.001	0.004	2.5
+40	0.004	0.004	0.002	0.004	2.5
+50	0.004	0.003	0.004	0.005	2.5
+60	0.006	0.005	0.004	0.006	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.3.2 TEST SETUP



4.3.3 TEST PROCEDURES

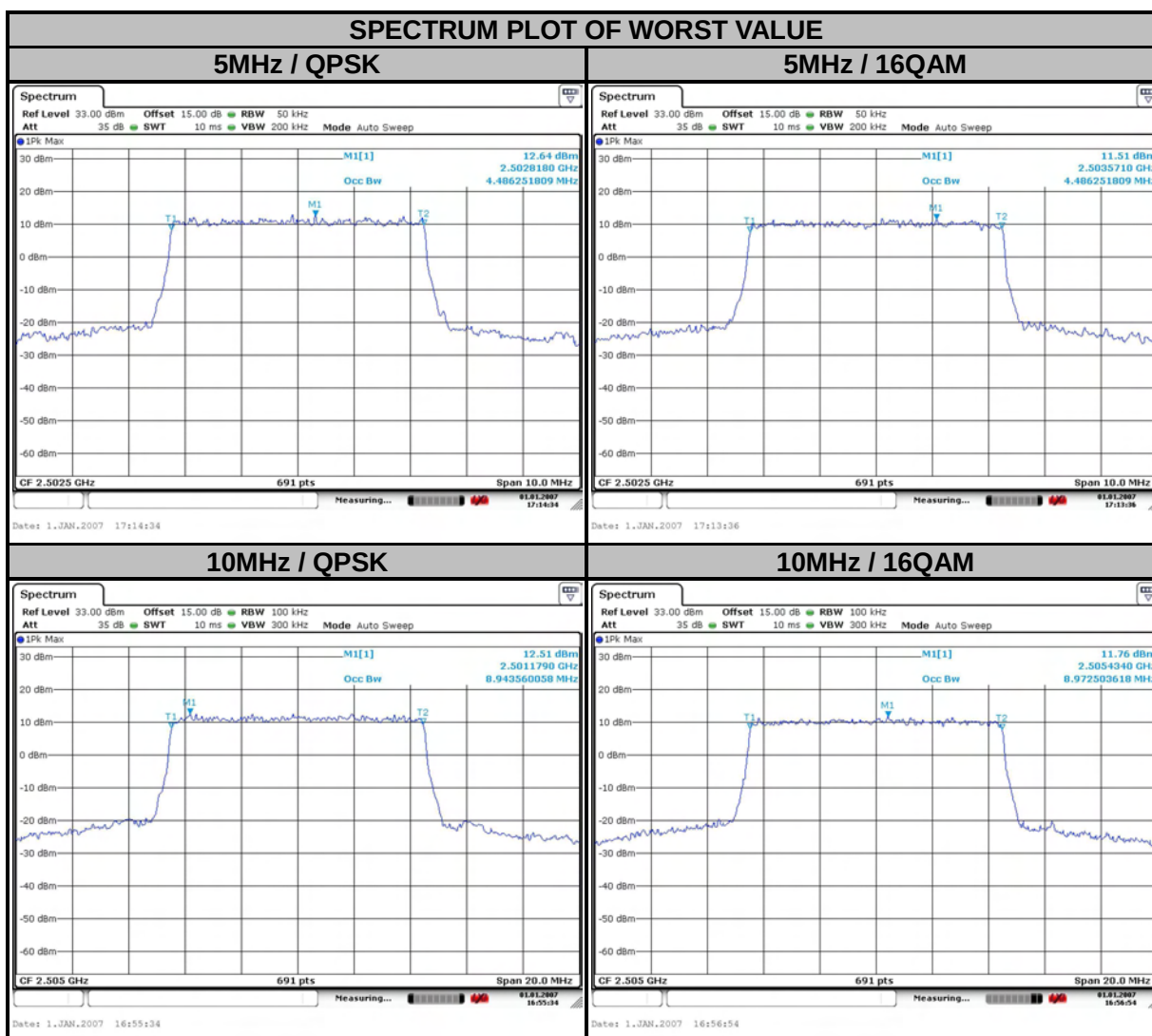
- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



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4.3.4 TEST RESULTS

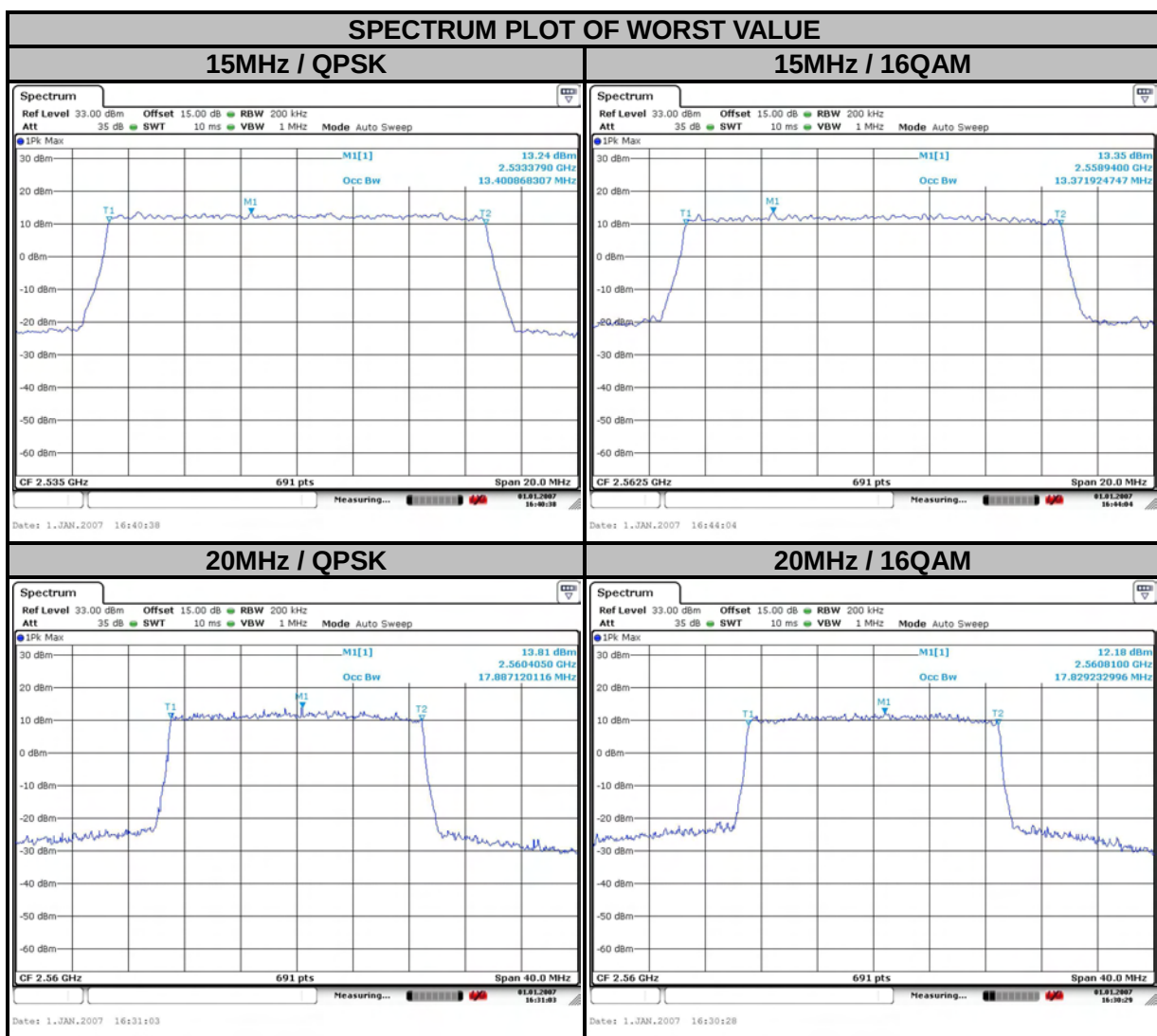
LTE BAND 7							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	4.49	4.49	20800	2505	8.94	8.97
21100	2535	4.49	4.47	21100	2535	8.94	8.97
21425	2567.5	4.49	4.47	21400	2565	8.94	8.94





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LTE BAND 7							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20825	2507.5	13.40	13.37	20850	2510	17.89	17.83
21100	2535	13.40	13.37	21100	2535	17.89	17.83
21375	2562.5	13.37	13.37	21350	2560	17.89	17.83

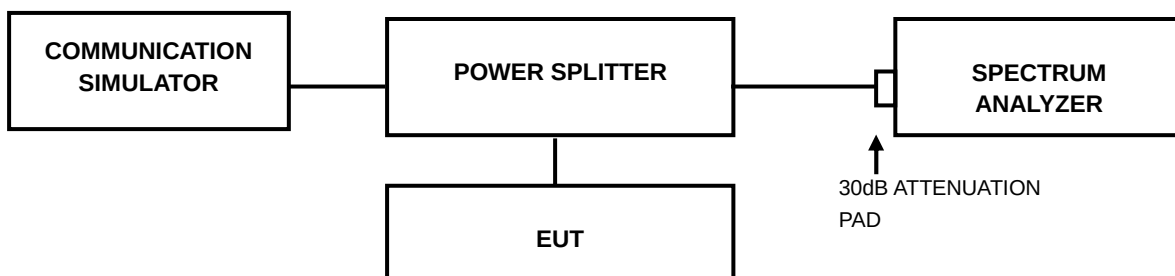


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

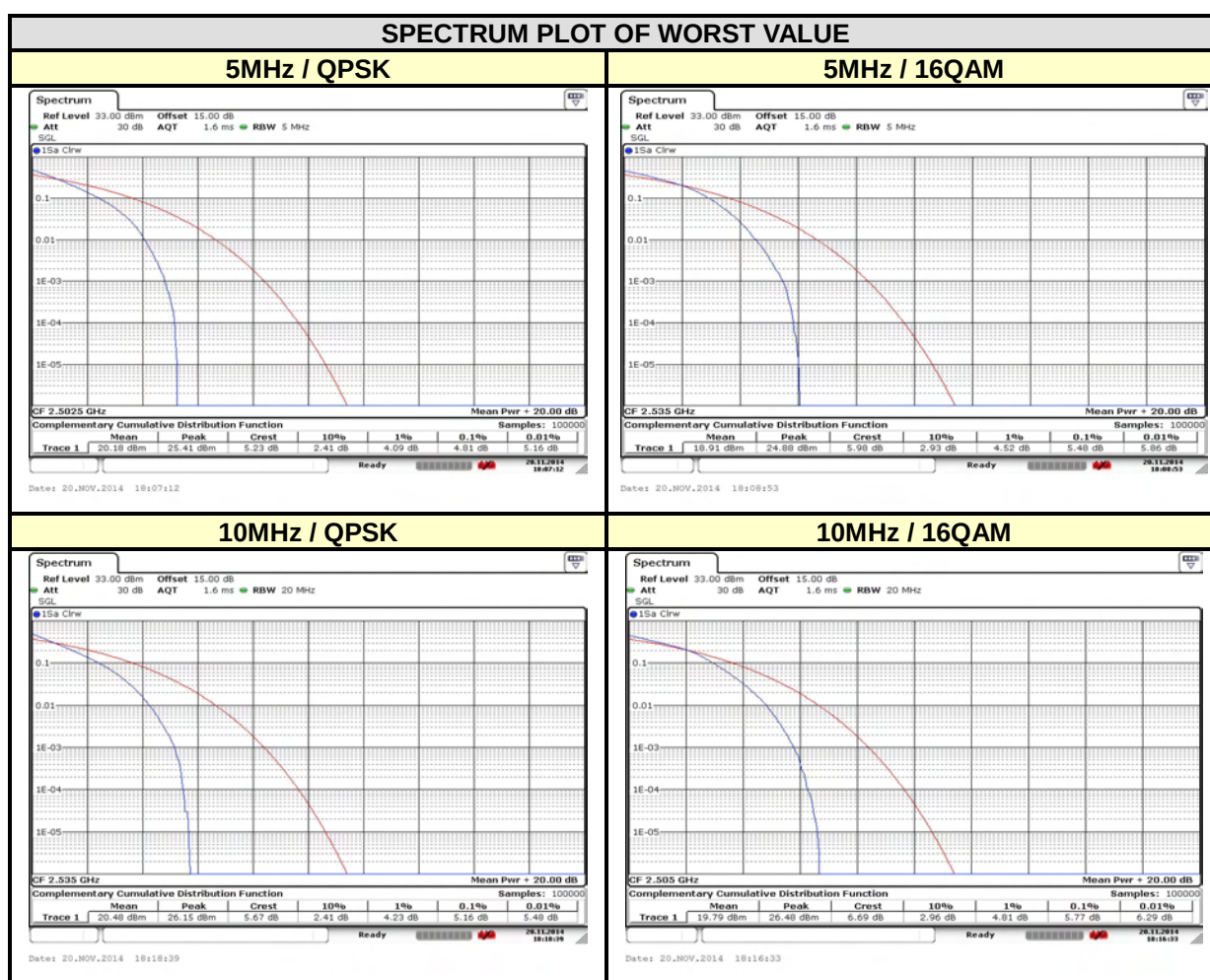


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4.4.4 TEST RESULTS

LTE BAND 7

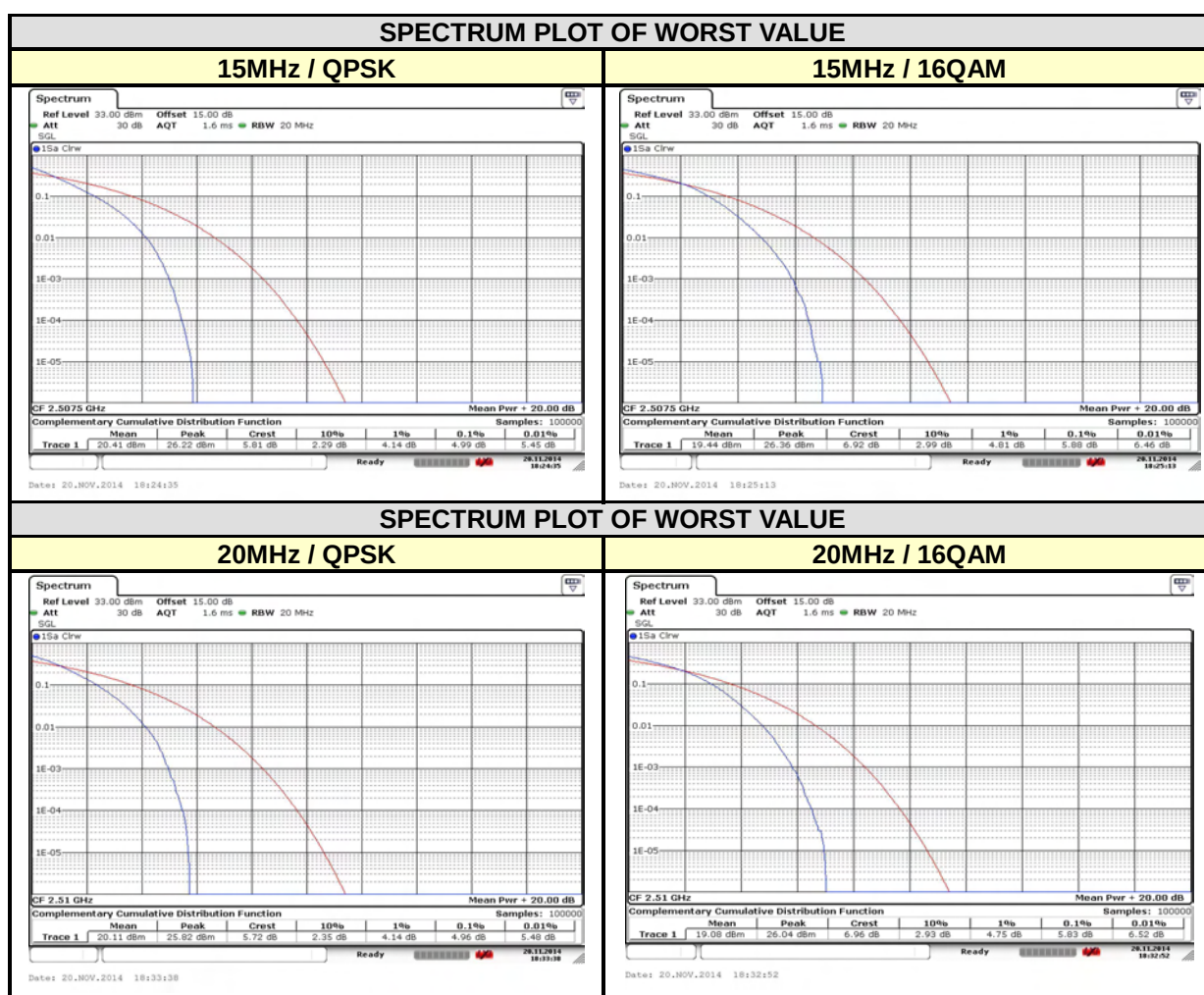
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	4.81	5.28	20800	2505	4.96	5.77
21100	2535	4.81	5.48	21100	2535	5.16	5.36
21425	2567.5	4.78	5.48	21400	2565	4.90	5.62





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CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
20825	2507.5	4.99	5.88	20850	2510	4.96	5.83
21100	2535	4.87	5.39	21100	2535	4.81	5.57
21375	2562.5	4.75	5.57	21350	2560	4.81	5.68

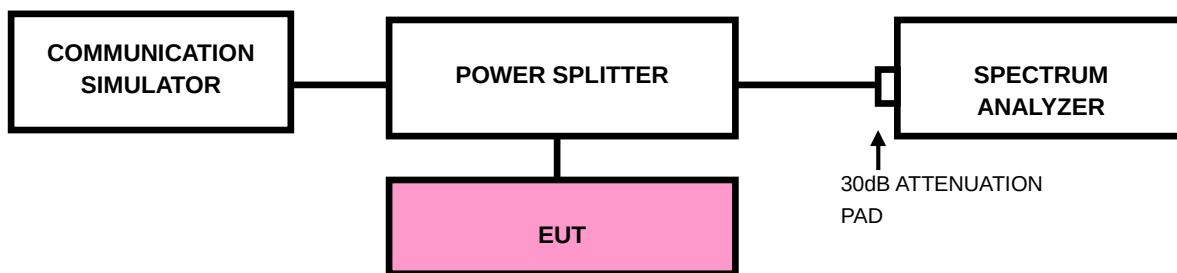


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

4.5.2 TEST SETUP





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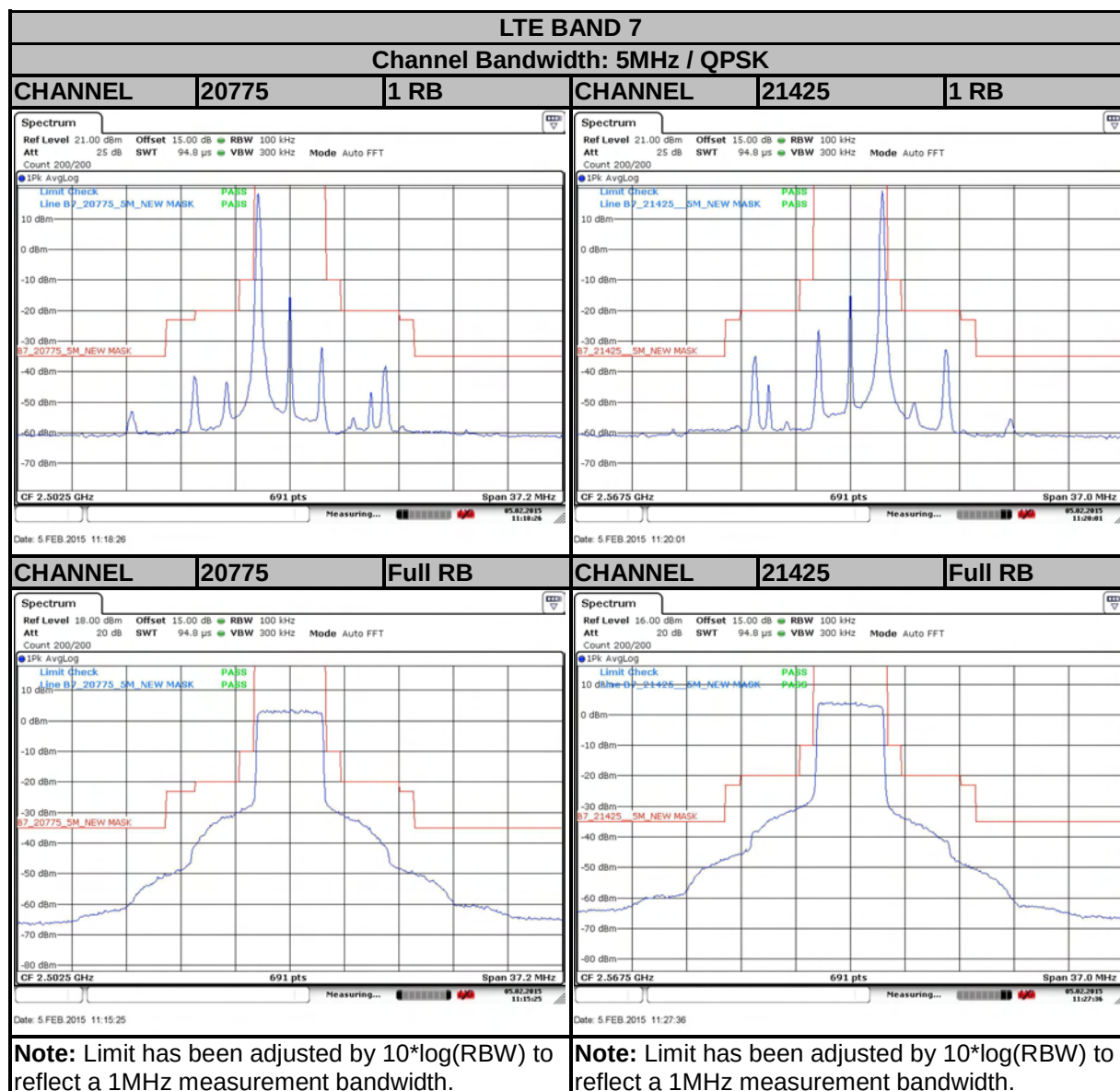
4.5.3 TEST PROCEDURES

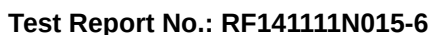
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 30MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (Channel bandwidth 5MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 40MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz (Channel bandwidth 10MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 40MHz. RBW of the spectrum is 1MHz and VBW of the spectrum is 3MHz (Channel bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 50MHz. RBW of the spectrum is 1MHz and VBW of the spectrum is 3MHz (Channel bandwidth 20MHz).
- g. Record the max trace plot into the test report.



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4.5.4 TEST RESULTS

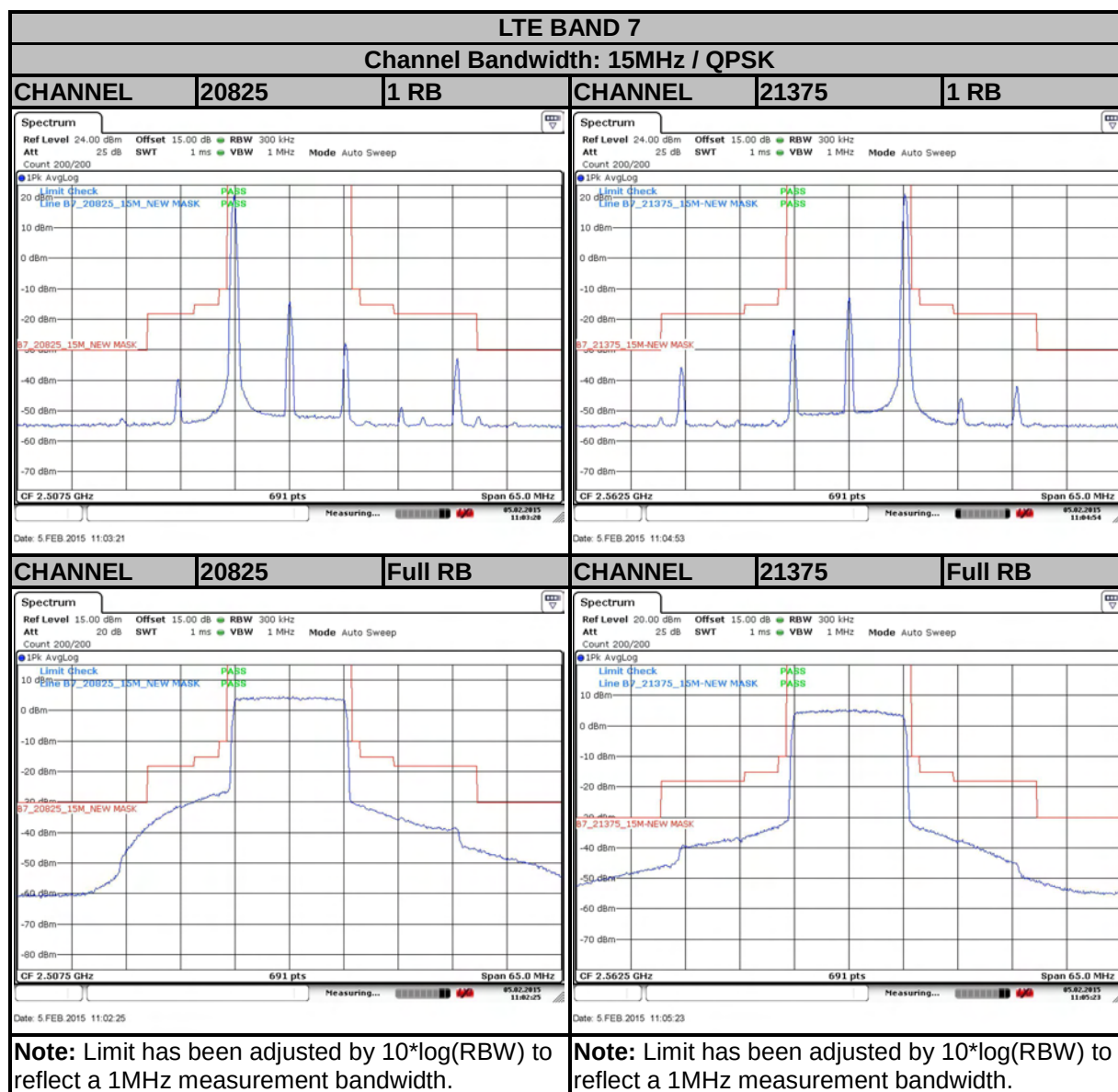


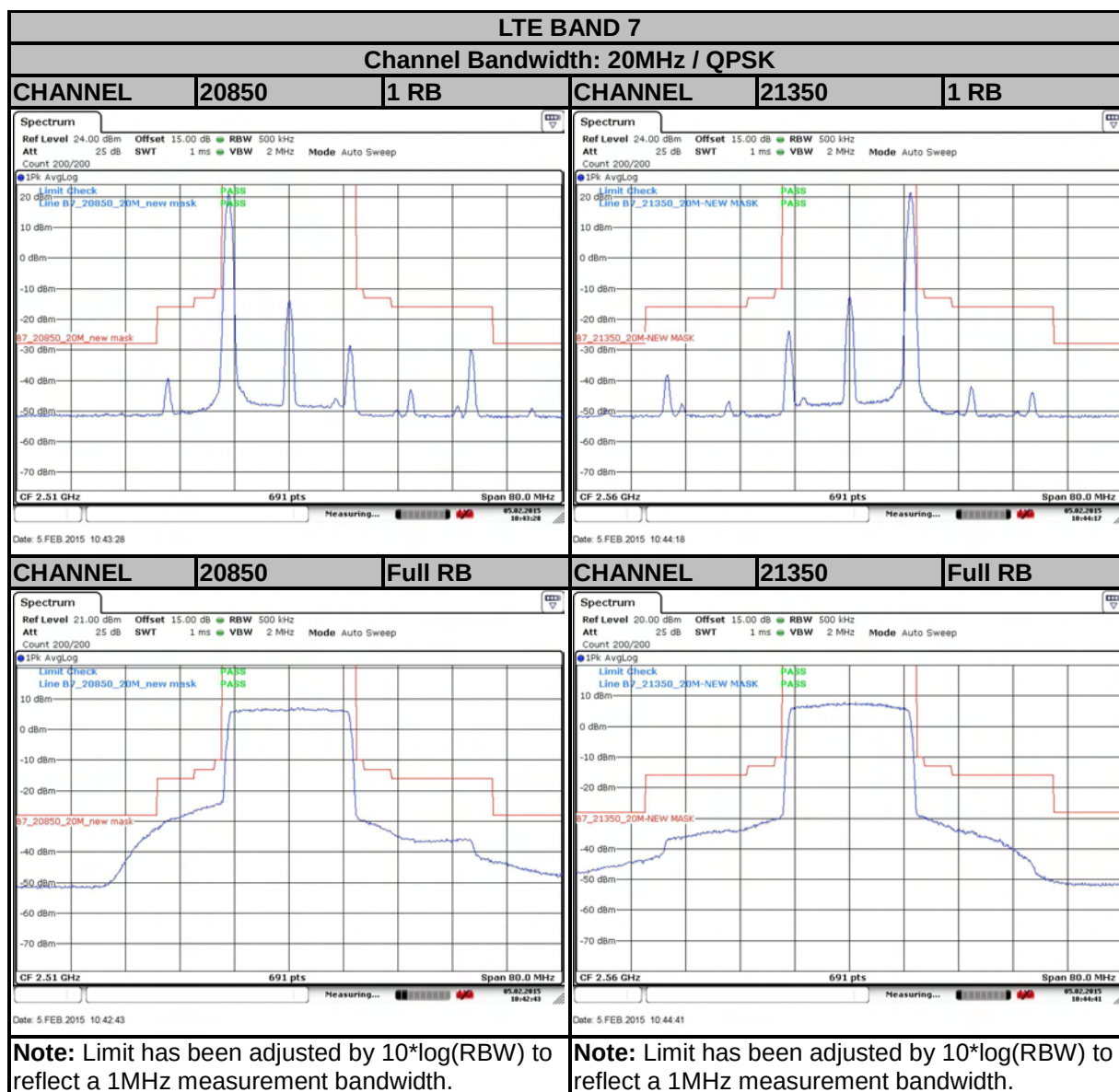


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4.6 CONDUCTED SPURIOUS EMISSIONS

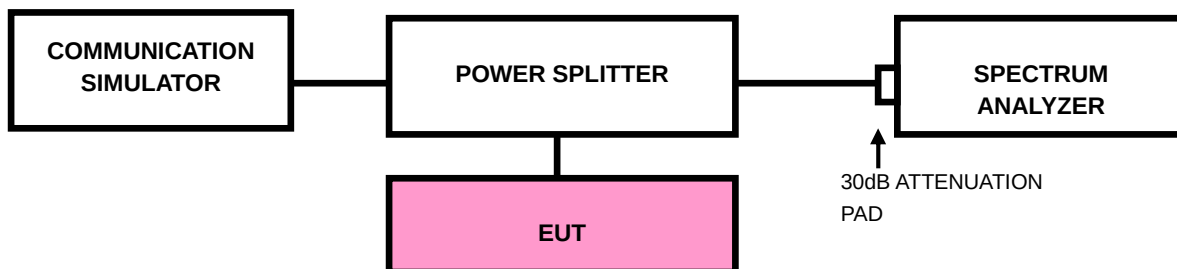
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

4.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30MHz to 26GHz for LTE Band 7. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.3 TEST SETUP

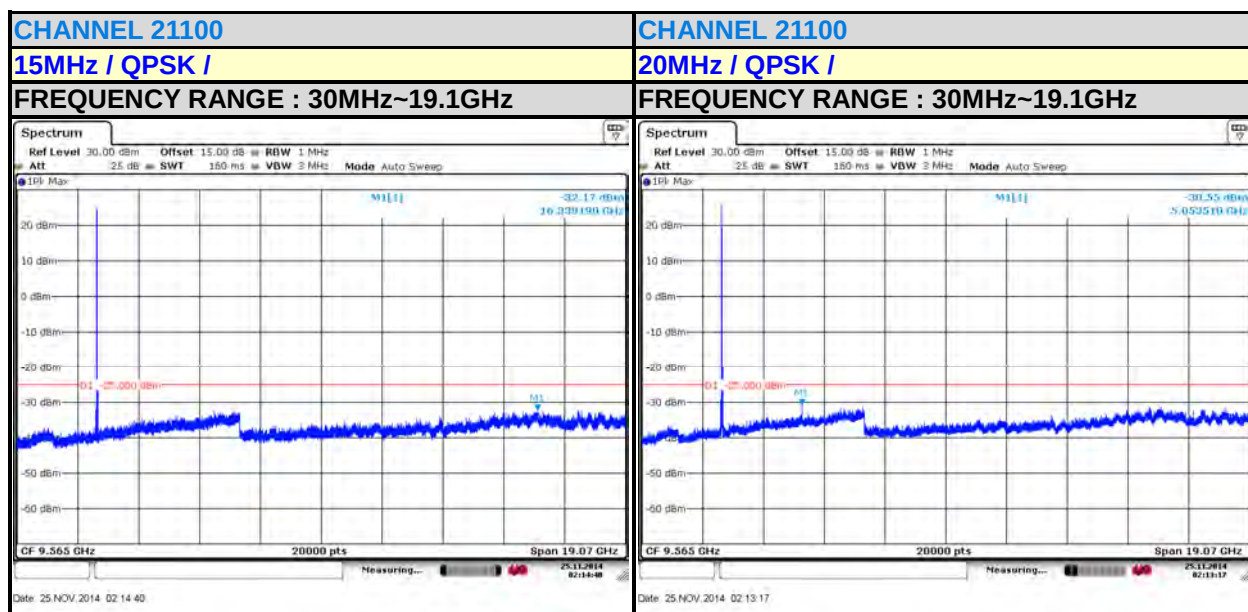
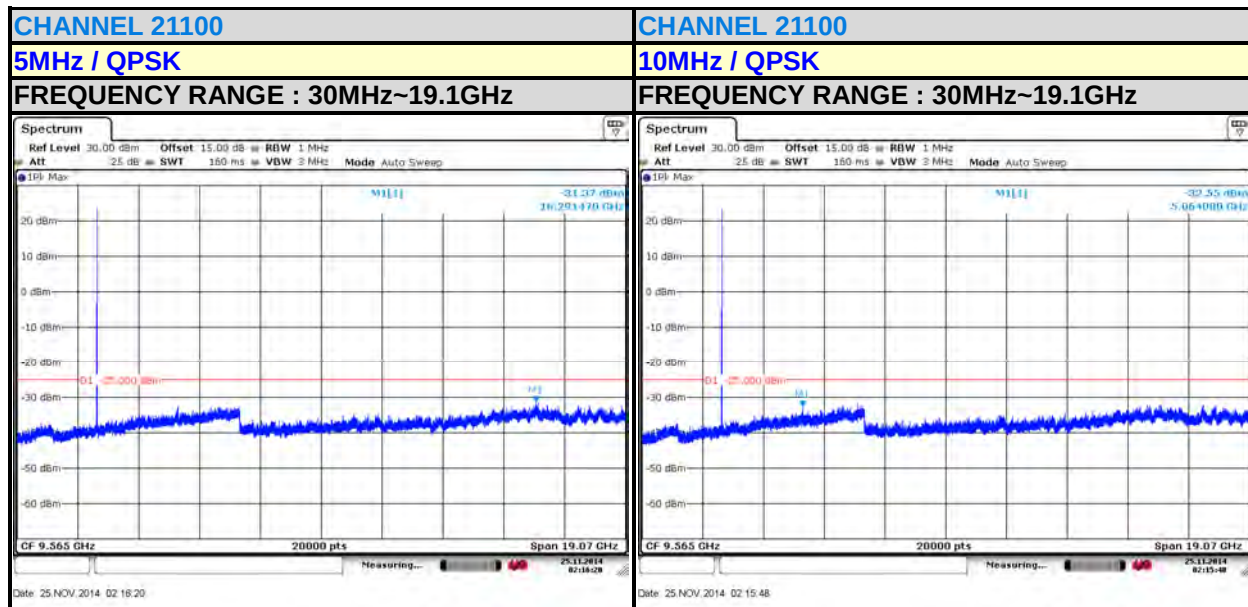




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4.6.4 TEST RESULTS

LTE BAND 7





4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm.

4.7.2 TEST PROCEDURES

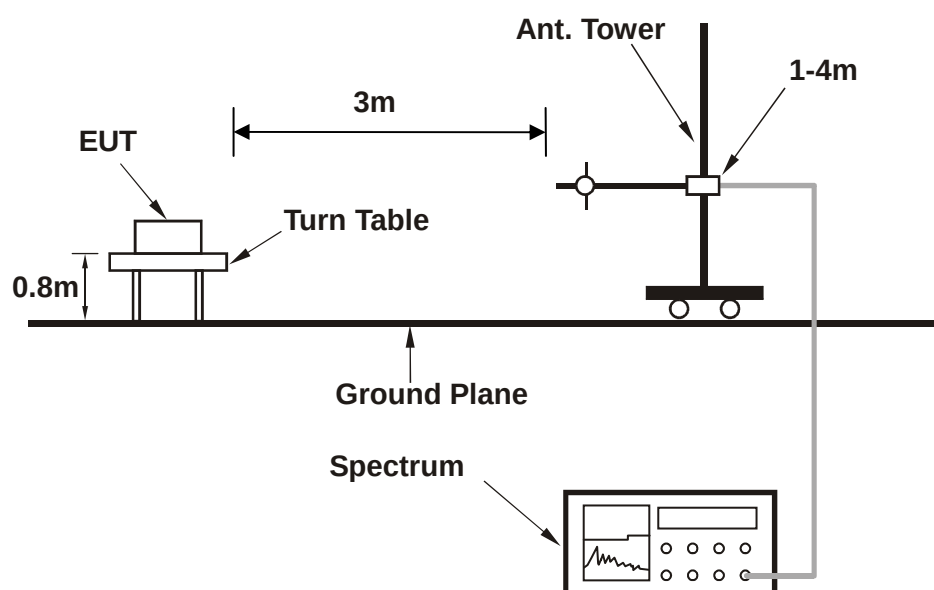
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15dBi.$

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).



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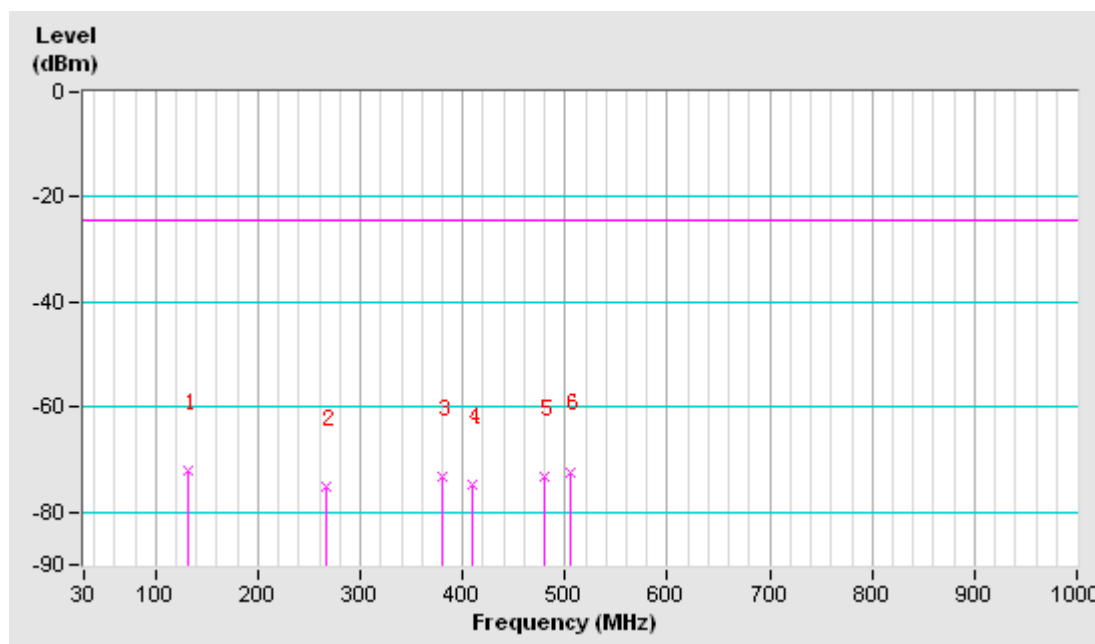
4.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA : LTE BAND 7

SPURIOUS EMISSION FREQUENCY RANGE	Below 1000MHz	OPERATING CHANNEL	Channel 21100
--	---------------	------------------------------	---------------

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
132.6	H	-71.95	-25	-46.95
266.28	H	-75.28	-25	-50.28
379.76	H	-73.35	-25	-48.35
409.29	H	-74.74	-25	-49.74
479.25	H	-73.17	-25	-48.17
505.67	H	-72.3	-25	-47.3

NOTE: The emission behavior belongs to narrowband spurious emission.



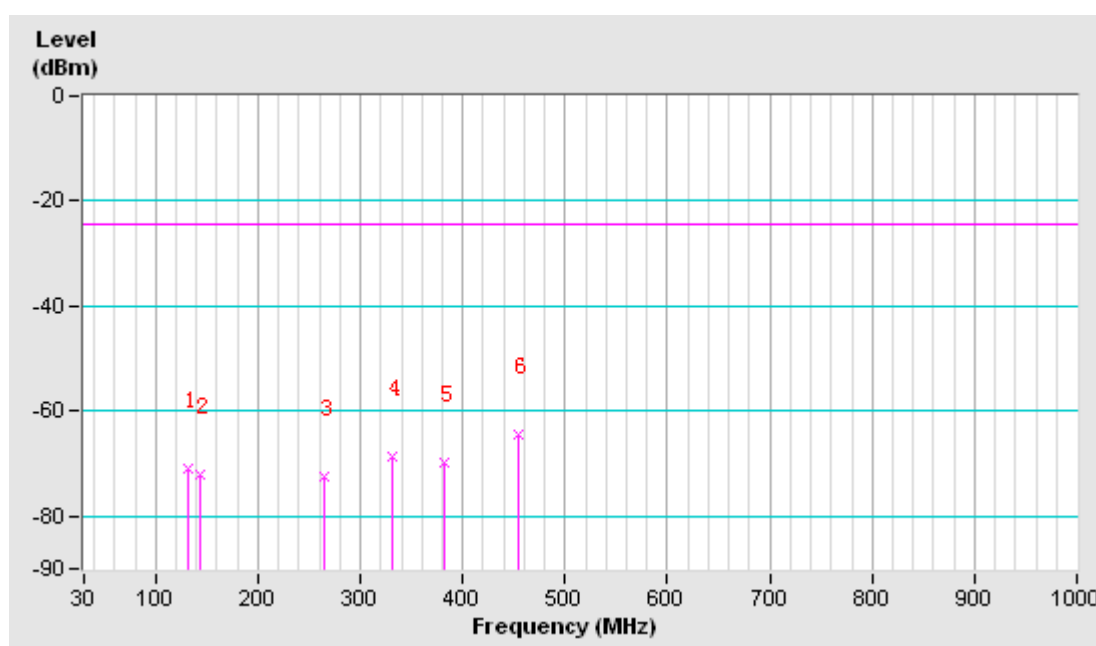


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SPURIOUS EMISSION FREQUENCY RANGE	Below 1000MHz	OPERATING CHANNEL	Channel 21100
--	---------------	------------------------------	---------------

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
132.6	V	-70.96	-25	-45.96
143.48	V	-72.13	-25	-47.13
264.73	V	-72.46	-25	-47.46
331.57	V	-68.74	-25	-43.74
381.31	V	-69.67	-25	-44.67
454.37	V	-64.33	-25	-39.33

NOTE: The emission behavior belongs to narrowband spurious emission.





Test Report No.: RF141111N015-6

ABOVE 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Blue Zheng		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-58.45	-25	-42.81	2.54	-40.27	-15.27
2	7605	-62.53	-25	-42.74	4.38	-38.36	-13.36
3	10140	-65.53	-25	-41.93	3.27	-38.66	-13.66
4	12675	-68.25	-25	-39.94	4.76	-35.18	-10.18
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-58.22	-25	-40.55	2.54	-38.01	-13.01
2	7605	-58.63	-25	-40.12	4.38	-35.74	-10.74
3	10140	-65.39	-25	-43.25	3.27	-39.98	-14.98
4	12675	-70.56	-25	-47.16	4.76	-42.40	-17.40

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF141111N015-6

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Blue Zheng		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-60.38	-25	-44.75	2.54	-42.21	-17.21
2	7605	-61.21	-25	-41.40	4.38	-37.02	-12.02
3	10140	-68.22	-25	-44.62	3.27	-41.35	-16.35
4	12675	-70.66	-25	-42.36	4.76	-37.60	-12.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-59.21	-25	-41.53	2.54	-38.99	-13.99
2	7605	-60.04	-25	-41.55	4.38	-37.17	-12.17
3	10140	-67.55	-25	-45.47	3.27	-42.20	-17.20
4	12675	-70.07	-25	-46.61	4.76	-41.85	-16.85

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF141111N015-6

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Blue Zheng		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-59.85	-25	-44.21	2.54	-41.67	-16.67
2	7605	-63.32	-25	-43.54	4.38	-39.16	-14.16
3	10140	-67.58	-25	-43.98	3.27	-40.71	-15.71
4	12675	-69.53	-25	-41.22	4.76	-36.46	-11.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-57.63	-25	-39.96	2.54	-37.42	-12.42
2	7605	-61.53	-25	-43.07	4.38	-38.69	-13.69
3	10140	-68.45	-25	-46.39	3.27	-43.12	-18.12
4	12675	-69.83	-25	-46.34	4.76	-41.58	-16.58

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



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CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Blue Zheng		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-60.46	-25	-44.83	2.54	-42.29	-17.29
2	7605	-62.35	-25	-42.56	4.38	-38.18	-13.18
3	10140	-68.49	-25	-44.89	3.27	-41.62	-16.62
4	12675	-70.52	-25	-42.22	4.76	-37.46	-12.46
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Margin (dB)
1	5070	-58.66	-25	-40.99	2.54	-38.45	-13.45
2	7605	-62.53	-25	-44.08	4.38	-39.70	-14.70
3	10140	-67.41	-25	-45.33	3.27	-42.06	-17.06
4	12675	-69.15	-25	-45.57	4.76	-40.81	-15.81

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



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5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch, were founded in 2002 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---