中国认可
国际互认
检测
TESTING
CNAS L2264

RF TEST REPORT

Applicant	ZTE CORPORATION
FCC ID	SRQ-ZTU31
Product	LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone
Brand	ZTE
Model	ZTU31/ZTE Blade V770/Blade V770
Report No.	RXC1611-0258RF04R1
Issue Date	February 4, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2016)/ FCC CFR 47 Part 90S (2016)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Xianqing Li

Performed by: Xianqing Li

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Summary of measurement results

No.	Test Type	Clause in FCC rules	Verdict
1	RF power output	2.1046/90.635(b)	PASS
2	Effective Radiated Power	90.635(b)	PASS
3	Occupied Bandwidth	2.1049/ 90.209	PASS
4	Emission Masks	2.1051 / 90.691	PASS
5	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 90.213	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 / 90.691	PASS
8	Radiates Spurious Emission	2.1053 /90.691	PASS
Date of Testing: November 18, 2016 ~ December 5, 2016 and February 3,2017			

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1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

1.2. Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

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1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
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2. General Description of Equipment under Test

Client Information

Applicant	ZTE CORPORATION
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District Shenzhen, Guangdong, 518057, P.R. China
Manufacturer	ZTE CORPORATION
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District Shenzhen, Guangdong, 518057, P.R. China

General Information

EUT Description		
Model Number:	ZTU31/ZTE Blade V770/Blade V770	
IMEI:	863682030001706	
Hardware Version:	uu9A	
Software Version:	KDDI_JP_BV770_V1.0	
Power Supply:	Battery/AC adapter	
Antenna Type:	Internal Antenna	
Test Mode(s):	LTE Band 26;	
Test Modulation:	(LTE)QPSK 16QAM;	
GPRS/ EGPRS Multislot Class:	B	
Maximum E.R.P.	LTE Band 26: 21.15dBm	
Rated Power Supply Voltage:	3.7V	
Extreme Voltage:	Minimum: 3.5V Maximum: 4.20V	
Extreme Temperature:	Lowest: -10°C Highest: +55°C	
Operating Frequency Range(s)	Band	Tx (MHz)
	LTE Band 26	814 ~ 824
EUT Accessory		
Battery	Manufacturer: SCUD (Fujian) Electronics Co., Ltd Model: Li3925T44P8h786035	
USB Cable	100cm Cable, Shielded	
Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.		

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3. Applied Standards

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

FCC CFR47 Part 2 (2016)

FCC CFR 47 Part 90S (2016)

ANSI/TIA-603-D (2010)

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4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.
The following testing in LTE is set based on the maximum RF Output Power.
Test modes are chosen to be reported as the worst case configuration below:

Test modes are chosen as the worst case configuration below for LTE Band 26

Test items	Bandwidth (MHz)					Modulation		RB			Test Channel		
	1.4	3	5	10	15	QPSK	16QAM	1	50%	100%	L	M	H
RF power output	O	O	O	O	O	O	O	O	O	O	O	O	O
Effective Isotropic Radiated power	O	O	O	O	O	O	O	-	-	O	O	O	O
Occupied Bandwidth	O	O	O	O	O	O	O	-	-	O	O	O	O
Emission Mask	O	O	O	O	O	O	O	-	-	O	O	O	O
Peak-to-Average Power Ratio	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	O	O	O	O	O	O	O	-	-	O	-	O	-
Spurious Emissions at Antenna Terminals	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	O	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.												

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5. Test Case Results

5.1. RF Power Output

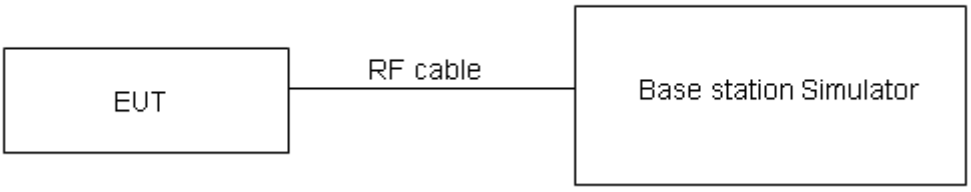
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Part 90.635 (b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.4 dB.

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Test Results

LTE FDD Band 26				Conducted Power(dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26697/814.7	26740/819	26783/823.3
1.4MHz	QPSK	1	0	23.89	23.90	23.84
		1	2	23.65	23.69	23.85
		1	5	23.61	23.63	23.78
		3	0	23.64	22.74	22.69
		3	2	23.63	22.76	22.59
		3	3	23.76	22.86	22.61
		6	0	22.69	22.78	22.73
	16QAM	1	0	23.39	23.41	22.84
		1	2	23.46	23.49	22.53
		1	5	23.15	23.17	22.12
		3	0	22.56	21.68	22.29
		3	2	22.61	21.71	22.22
		3	3	22.60	21.70	22.29
		6	0	21.67	21.71	21.65
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26705/815.5	26740/819	26775/822.5
3MHz	QPSK	1	0	23.91	23.76	23.86
		1	13	23.68	23.39	23.66
		1	24	23.64	23.65	23.58
		12	0	22.74	22.52	22.69
		12	6	22.75	22.42	22.71
		12	13	22.86	22.63	22.80
		25	0	22.72	22.53	22.73
	16QAM	1	0	23.42	22.19	23.34
		1	13	23.49	22.56	23.43
		1	24	23.17	21.97	23.12
		12	0	21.67	21.48	21.62
		12	6	21.72	21.34	21.65

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		12	13	21.70	21.44	21.65
		25	0	21.70	21.37	21.66
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26715/816.5	26740/819	26765/822.5
5MHz	QPSK	1	0	23.88	23.78	23.73
		1	13	23.66	23.41	23.74
		1	24	23.61	23.67	23.67
		12	0	22.71	22.54	22.58
		12	6	22.73	22.44	22.52
		12	13	22.84	22.65	22.55
		25	0	22.70	22.55	22.62
	16QAM	1	0	23.39	22.21	22.73
		1	13	23.46	22.58	22.42
		1	24	23.14	21.99	22.01
		12	0	21.65	21.50	21.56
		12	6	21.69	21.36	21.49
		12	13	21.67	21.46	21.56
		25	0	21.68	21.39	21.54
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				/	26740/819	/
10MHz	QPSK	1	0	/	22.68	/
		1	25	/	23.68	/
		1	49	/	22.78	/
		25	0	/	22.78	/
		25	13	/	22.77	/
		25	25	/	22.97	/
		50	0	/	21.69	/
	16QAM	1	0	/	21.74	/
		1	25	/	22.58	/
		1	49	/	21.73	/
		25	0	/	21.72	/
		25	13	/	21.56	/
		25	25	/	21.26	/
		50	0	/	21.49	/

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BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)		
				26715/816.5	/	/
15MHz	QPSK	1	0	23.11	/	/
		1	13	23.18	/	/
		1	24	23.09	/	/
		12	0	22.38	/	/
		12	6	22.29	/	/
		12	13	22.45	/	/
		25	0	21.68	/	/
	16QAM	1	0	23.18	/	/
		1	13	23.05	/	/
		1	24	22.29	/	/
		12	0	22.25	/	/
		12	6	22.15	/	/
		12	13	21.77	/	/
		25	0	21.86	/	/

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5.2. Effective Radiated Power

Ambient condition

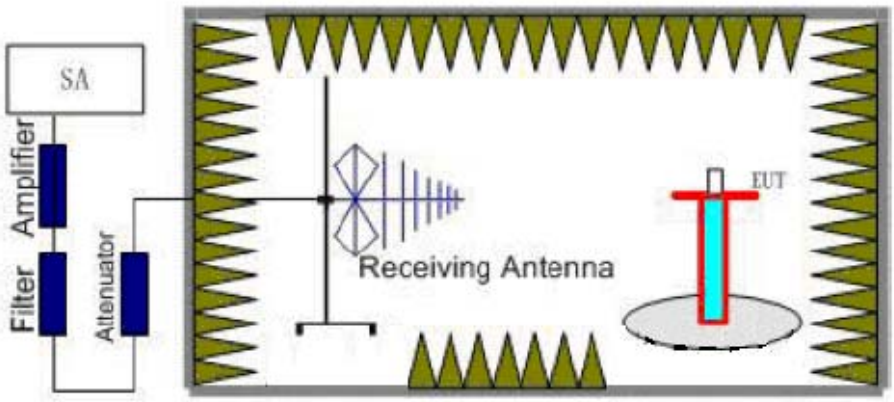
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

The measurement procedures in TIA- 603-D are used.
1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. ERP/EIRP = Ps + Et – Es + Gs = Ps + Rt – Rs + Gs
Ps (dBm)：Input power to substitution antenna.
Gs (dBi or dBd)：Substitution antenna Gain.
Et = Rt + AF
Es = Rs + AF
AF (dB/m)：Receive antenna factor
Rt：The highest received signal in spectrum analyzer for EUT.
Rs：The highest received signal in spectrum analyzer for substitution antenna.

EIRP= E.R.P+2.15

Test Setup



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Limits

Rule Part 90.635(b) specifies that “The maximum output power of the transmitter for mobile stations is 100 watts”.

Limit	≤ 100 W (50 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 2, *U*= 1.19 dB

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Test Results:

LTE Band 26								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
1.4 MHz (QPSK)	H	814.7	-29.90	-47.87	0.00	0.90	18.87	Pass
	H	819	-29.94	-47.71	0.00	1.00	18.76	Pass
	H	823.3	-29.90	-47.62	0.00	1.06	18.78	Pass
	V	814.7	-40.31	-47.78	0.00	0.90	8.37	Pass
	V	819	-40.72	-47.71	0.00	1.00	7.98	Pass
	V	823.3	-40.18	-47.33	0.00	1.06	8.21	Pass
1.4 MHz (16QAM)	H	814.7	-30.51	-47.87	0.00	0.90	18.26	Pass
	H	819	-30.52	-47.71	0.00	1.00	18.18	Pass
	H	823.3	-30.47	-47.62	0.00	1.06	18.21	Pass
	V	814.7	-40.87	-47.78	0.00	0.90	7.81	Pass
	V	819	-41.24	-47.71	0.00	1.00	7.46	Pass
	V	823.3	-40.73	-47.33	0.00	1.06	7.66	Pass
3 MHz (QPSK)	H	815.5	-29.94	-47.83	0.00	0.90	18.79	Pass
	H	819	-29.93	-47.71	0.00	1.00	18.77	Pass
	H	822.5	-29.96	-47.64	0.00	1.06	18.74	Pass
	V	815.5	-41.18	-47.71	0.00	0.90	7.43	Pass
	V	819	-41.37	-47.71	0.00	1.00	7.33	Pass
	V	822.5	-41.05	-47.36	0.00	1.06	7.37	Pass
3 MHz (16QAM)	H	815.5	-30.67	-47.83	0.00	0.90	18.06	Pass
	H	819	-30.60	-47.71	0.00	1.00	18.10	Pass
	H	822.5	-30.49	-47.64	0.00	1.06	18.21	Pass
	V	815.5	-41.74	-47.71	0.00	0.90	6.87	Pass
	V	819	-41.92	-47.71	0.00	1.00	6.78	Pass
	V	822.5	-41.59	-47.36	0.00	1.06	6.83	Pass
5 MHz (QPSK)	H	816.5	-30.11	-47.78	0.00	0.90	18.57	Pass
	H	819	-30.17	-47.71	0.00	1.00	18.53	Pass
	H	821.5	-29.98	-47.65	0.00	1.00	18.67	Pass
	V	816.5	-41.30	-47.65	0.00	0.90	7.25	Pass
	V	819	-41.58	-47.71	0.00	1.00	7.12	Pass
	V	821.5	-41.08	-47.41	0.00	1.00	7.33	Pass
5 MHz (16QAM)	H	816.5	-30.59	-47.78	0.00	0.90	18.09	Pass
	H	819	-30.66	-47.71	0.00	1.00	18.04	Pass
	H	821.5	-30.45	-47.65	0.00	1.00	18.20	Pass
	V	816.5	-41.73	-47.65	0.00	0.90	6.82	Pass
	V	819	-42.09	-47.71	0.00	1.00	6.61	Pass
	V	821.5	-41.63	-47.41	0.00	1.00	6.78	Pass
10 MHz (QPSK)	H	819	-29.88	-47.71	0.00	1.00	18.82	Pass
	V	819	-40.43	-47.71	0.00	1.00	8.27	Pass
15 MHz (QPSK)	H	821.5	-27.40	-47.48	0.00	1.07	21.15	Pass
	V	821.5	-39.38	-46.81	0.00	1.07	8.50	Pass

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LTE Band 26								
bandwidth	Polarization	Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	Conclusion
10 MHz (16QAM)	H	819	-30.64	-47.71	0.00	1.00	18.06	Pass
	V	819	-41.09	-47.71	0.00	1.00	7.61	Pass
15 MHz (16QAM)	H	821.5	-27.79	-47.48	0.00	1.07	20.76	Pass
	V	821.5	-39.86	-46.81	0.00	1.07	8.02	Pass

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5.3. Occupied Bandwidth

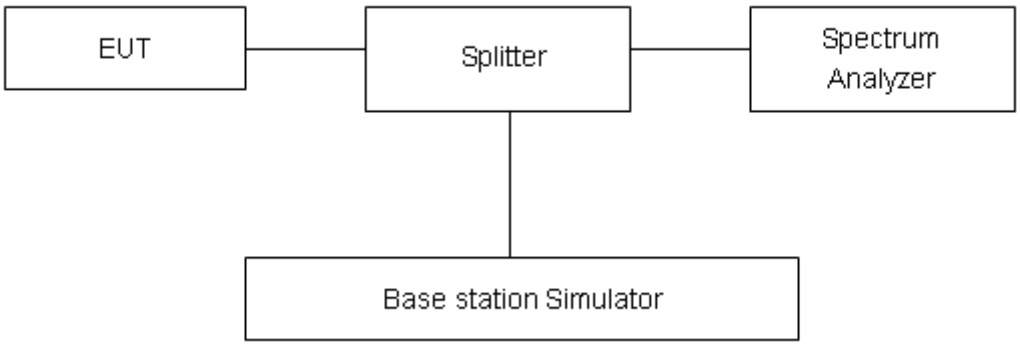
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.
RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 26 (1.4MHz),
RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 26 (3MHz/5MHz).
RBW is set to 300 kHz, VBW is set to 1MHz for LTE Band 26 (10MHz).
99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.
Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 624Hz.

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Test Result

LTE Band 26						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26697	814.7	1.1279	1.328
			26740	819	1.1256	1.347
			26783	823.3	1.1214	1.345
		3	26705	815.5	2.7468	3.048
			26740	819	2.7429	3.053
			26775	822.5	2.7387	3.047
		5	26715	816.5	4.5027	4.996
			26740	819	4.5240	5.022
			26765	821.5	4.5039	4.988
		10	26740	819	9.0077	10.09
		15	26765	821.5	13.450	14.80
	16QAM	1.4	26697	814.7	1.1178	1.341
			26740	819	1.1086	1.317
			26783	823.3	1.1301	1.320
		3	26705	815.5	2.7346	3.073
			26740	819	2.7362	3.044
			26775	822.5	2.7307	3.040
		5	26715	816.5	4.5265	5.031
			26740	819	4.5025	4.928
			26765	821.5	4.5361	5.054
		10	26740	819	9.0148	9.985
		15	26765	821.5	13.468	14.790

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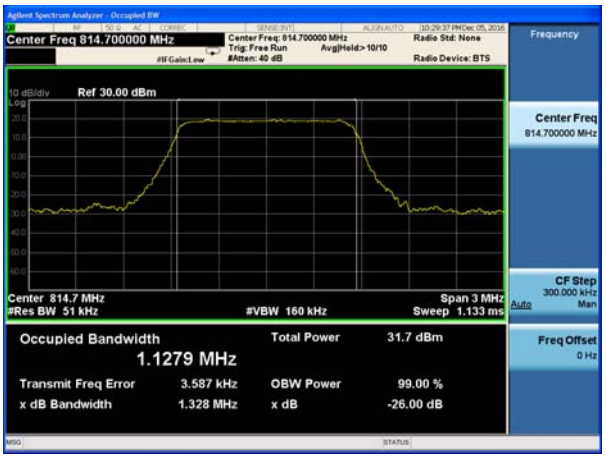
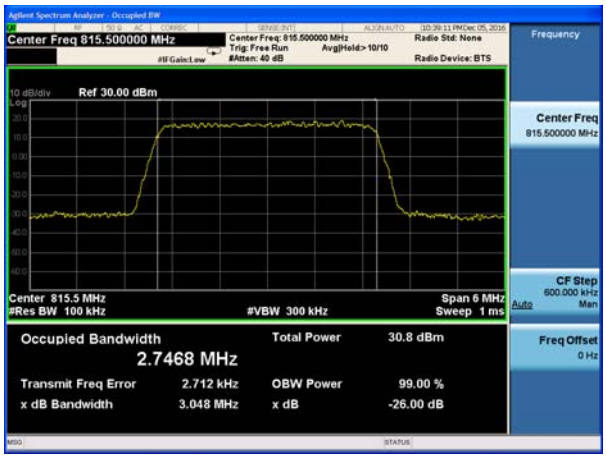
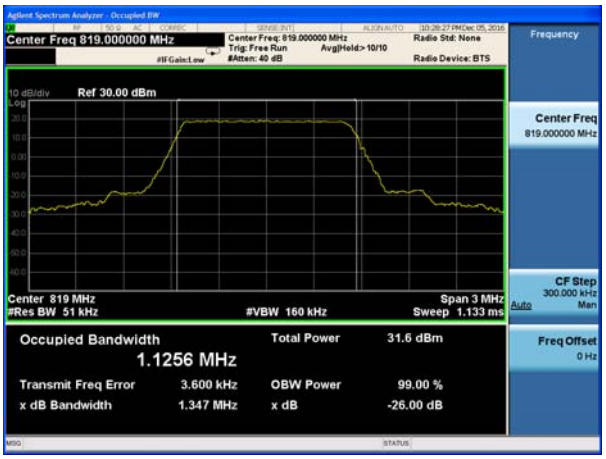
LTE Band 26 QPSK 1.4MHz CH26697



LTE Band 26 QPSK 3MHz CH26705

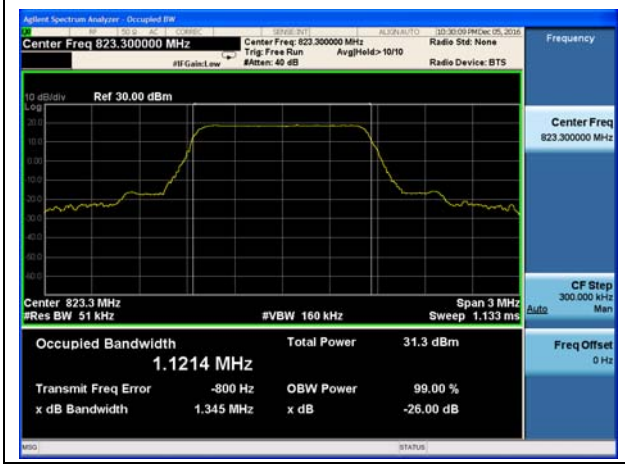


LTE Band 26 QPSK 1.4MHz CH26740

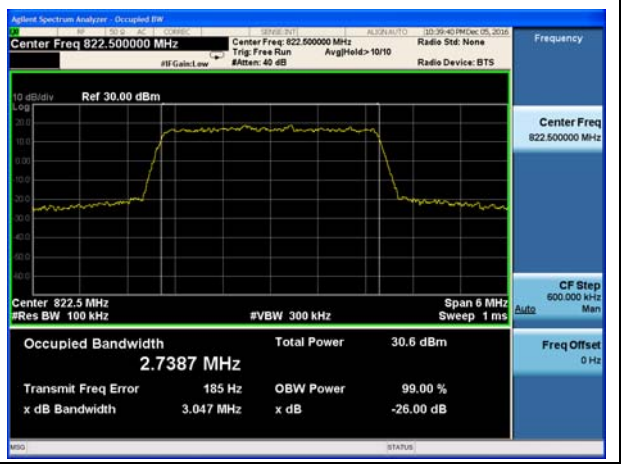


LTE Band 26 QPSK 3MHz CH26740

LTE Band 26 QPSK 1.4MHz CH26783



LTE Band 26 QPSK 3MHz CH26775



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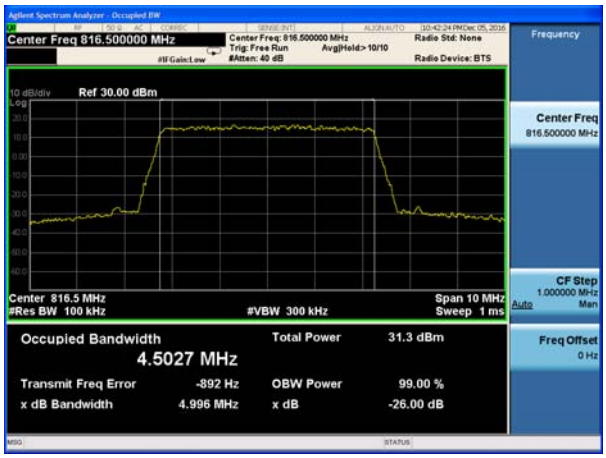
LTE Band 26 QPSK 5MHz CH26715



LTE Band 26 QPSK 10MHz CH26740

LTE Band 26 QPSK 5MHz CH26740

LTE Band 26 QPSK 15MHz CH26765

LTE Band 26 QPSK 5MHz CH26765

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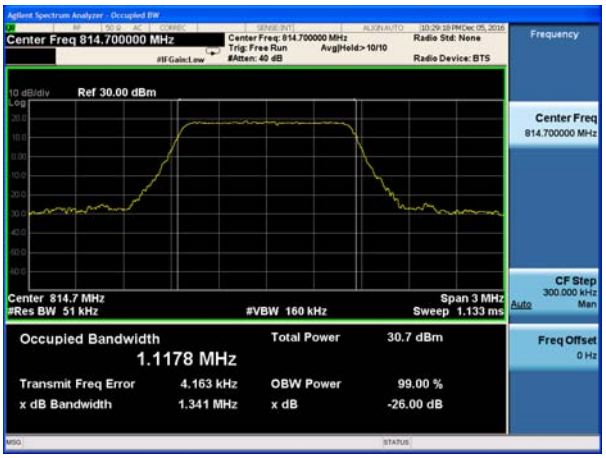
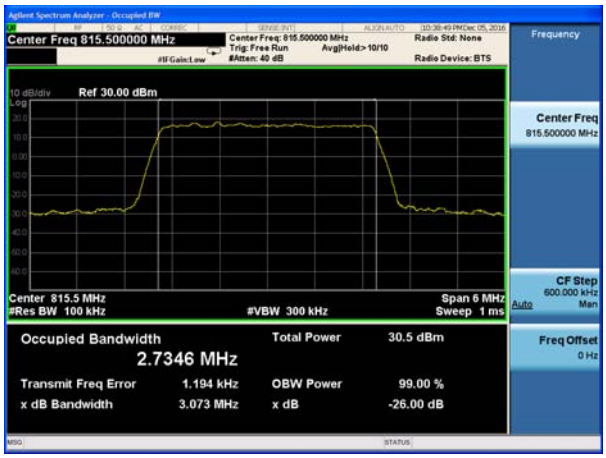
LTE Band 26 16QAM 1.4MHz CH26697



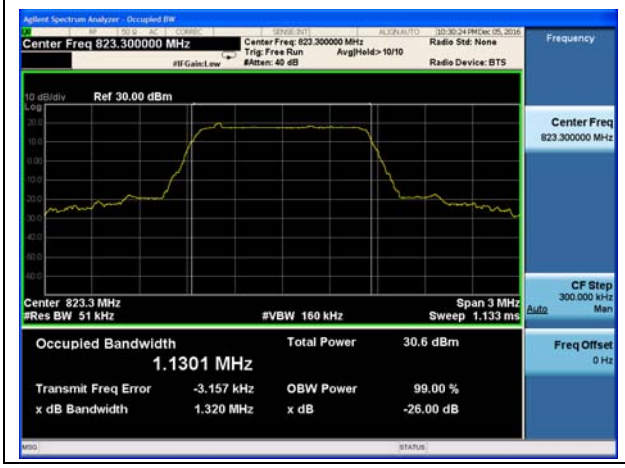
LTE Band 26 16QAM 3MHz CH26705



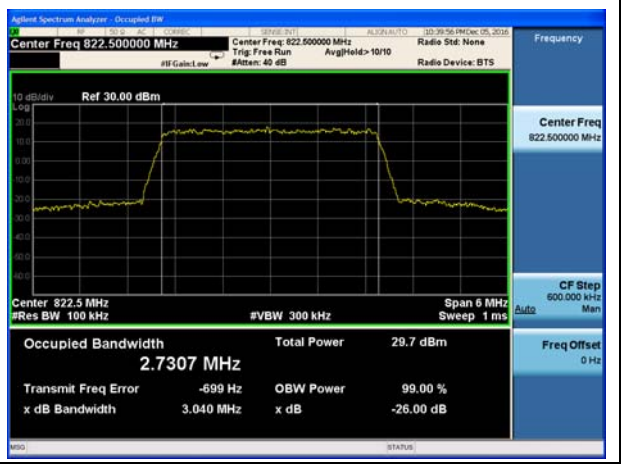
LTE Band 26 16QAM 1.4MHz CH26740

LTE Band 26 16QAM 3MHz CH26740

LTE Band 26 16QAM 1.4MHz CH26783



LTE Band 26 16QAM 3MHz CH26775



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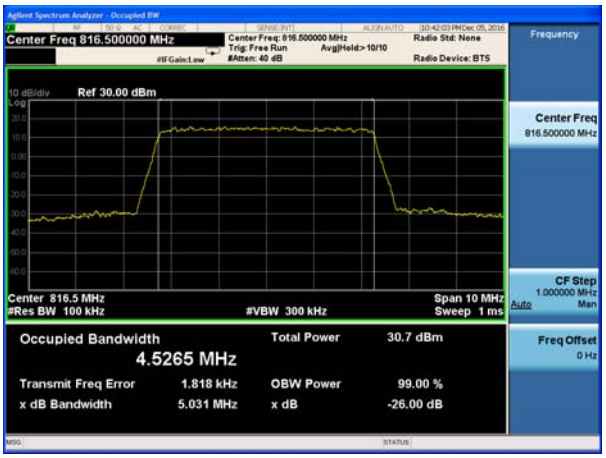
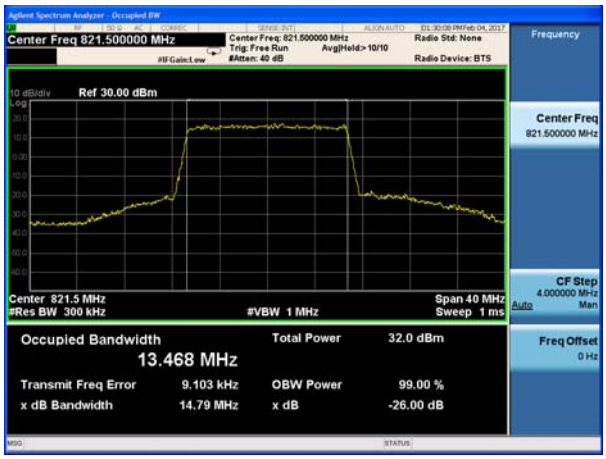
LTE Band 26 16QAM 5MHz CH26715



LTE Band 26 16QAM 10MHz CH26740

LTE Band 26 16QAM 5MHz CH26740

LTE Band 26 16QAM 15MHz CH26765



LTE Band 26 16QAM 5MHz CH26765

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5.4. Emission Mask

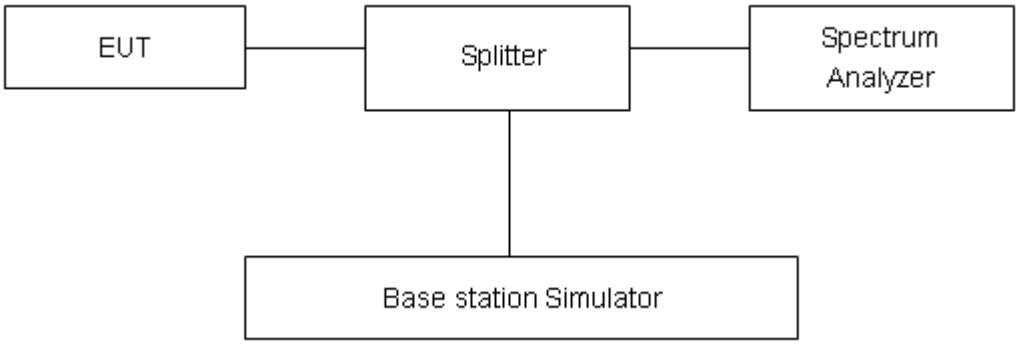
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used.
RBW is set to 100kHz,VBW is set to 300kHz.
Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 90.691(a) specifies that " For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log_{10}(f/6.1) decibels or 50 + 10 Log_{10}(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz."

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U=0.684dB.

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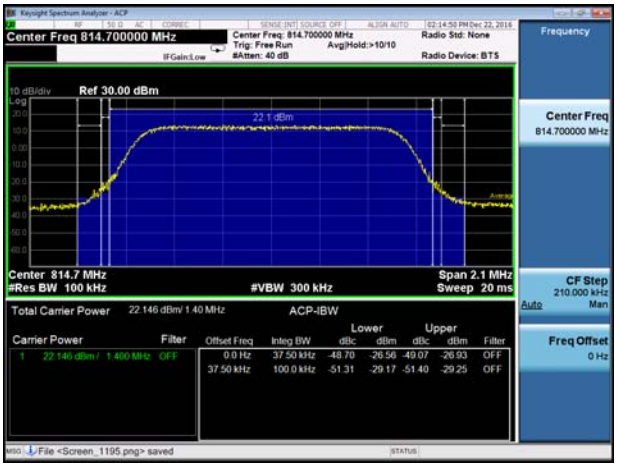
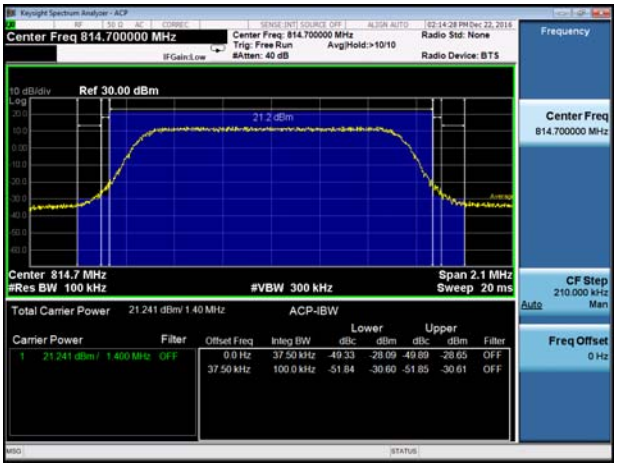
Test Result:

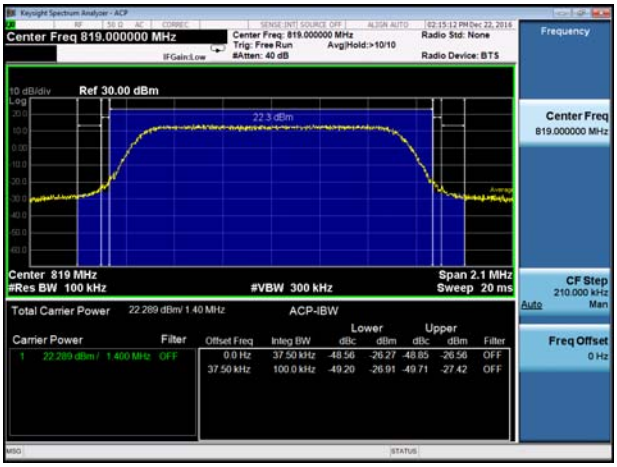
LTE Band 26 QPSK CH Low 1.4M



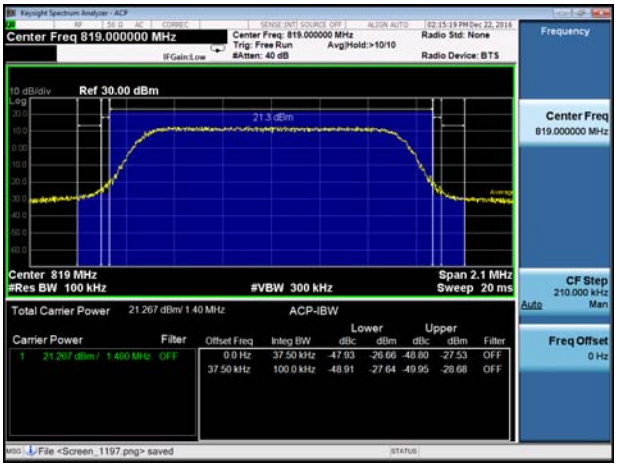
LTE Band 26 16QAM CH Low 1.4M



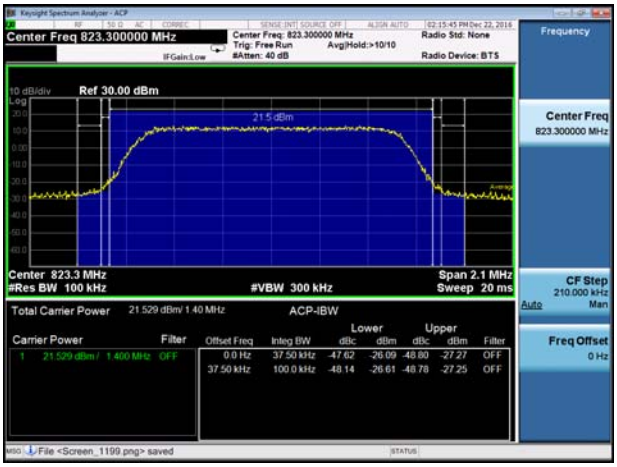
LTE Band 26 QPSK CH Middle 1.4M



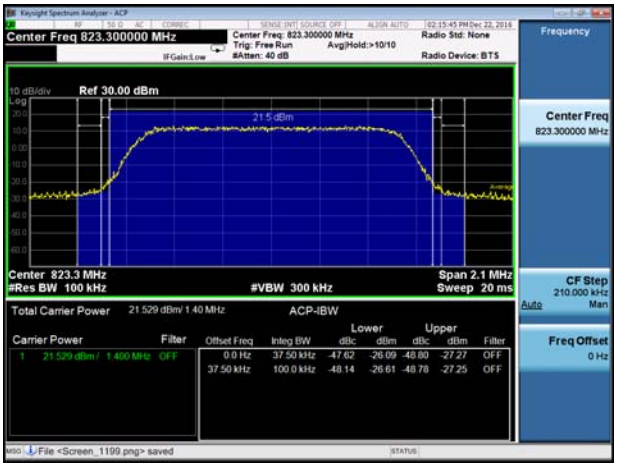
LTE Band 26 16QAM CH Middle 1.4M



LTE Band 26 QPSK CH High 1.4M



LTE Band 26 16QAM CH High 1.4M



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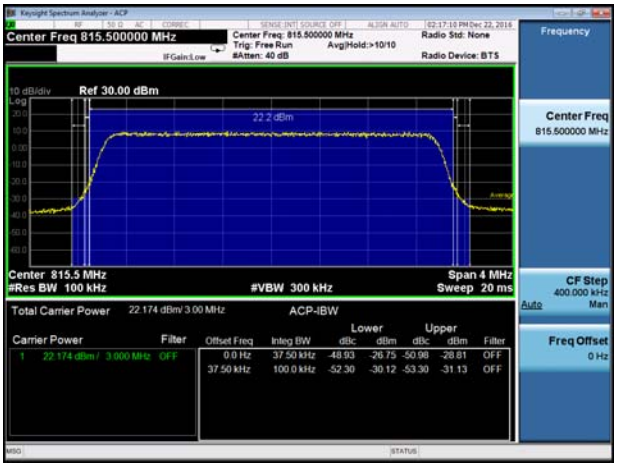
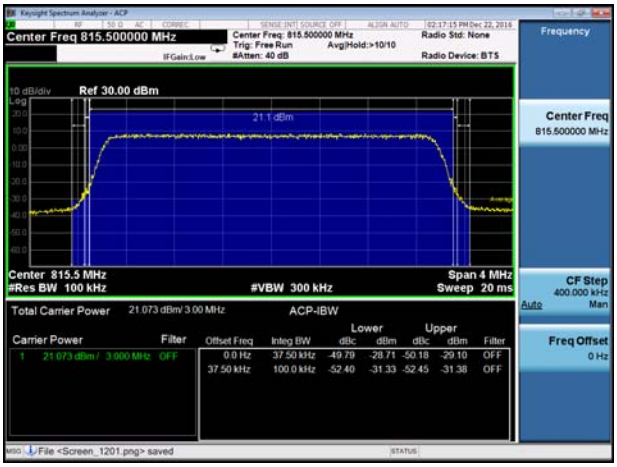
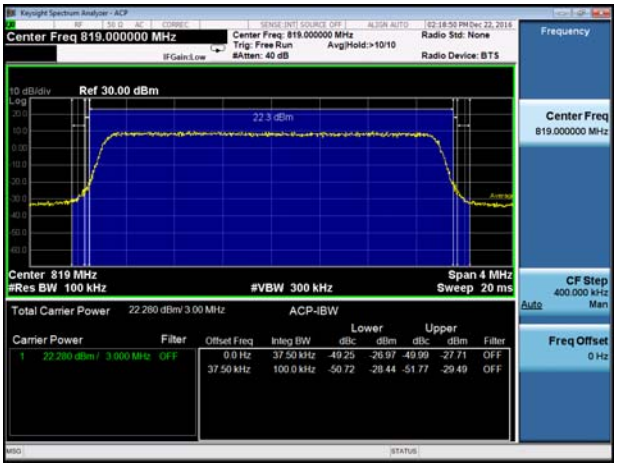
LTE Band 26 QPSK CH Low 3M



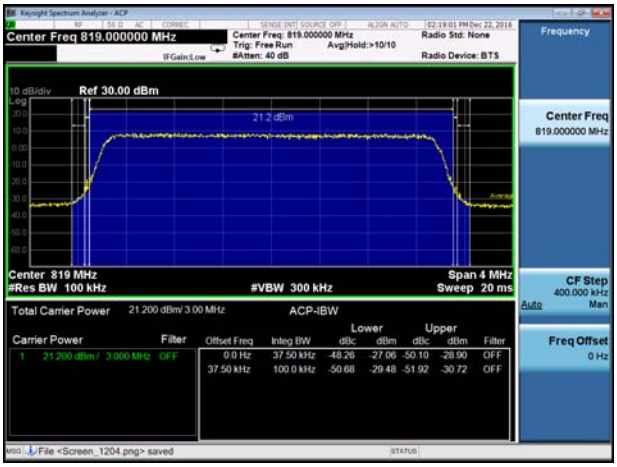
LTE Band 26 16QAM CH Low 3M



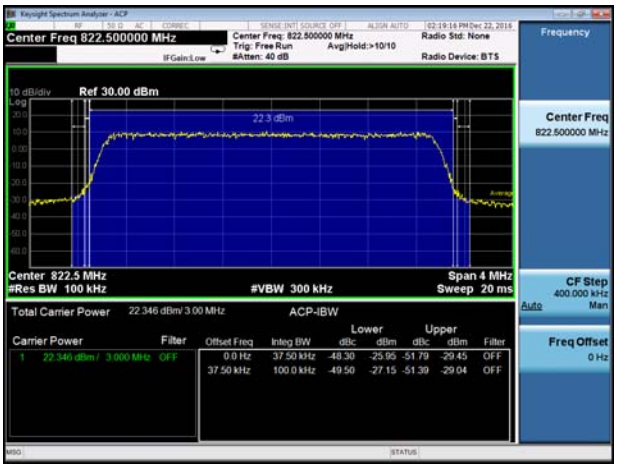
LTE Band 26 QPSK CH Middle 3M



LTE Band 26 16QAM CH Middle 3M



LTE Band 26 QPSK CH High 3M



LTE Band 26 16QAM CH High 3M

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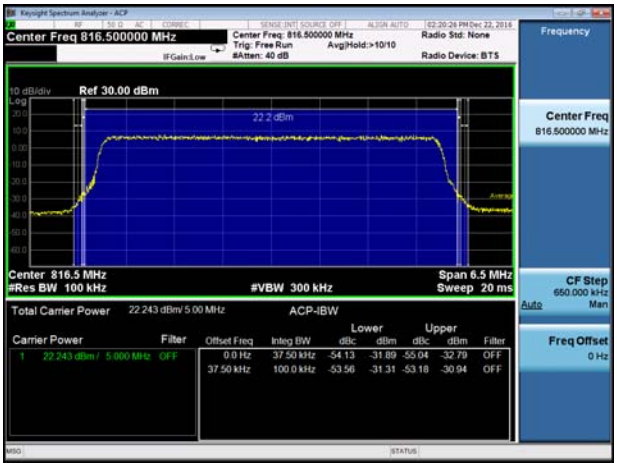
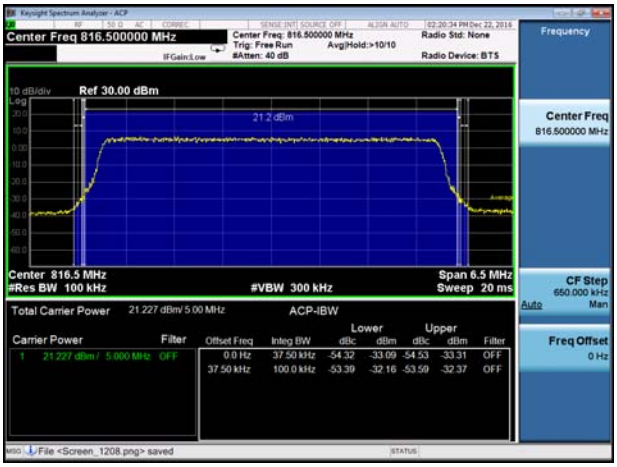
LTE Band 26 QPSK CH Low 5M

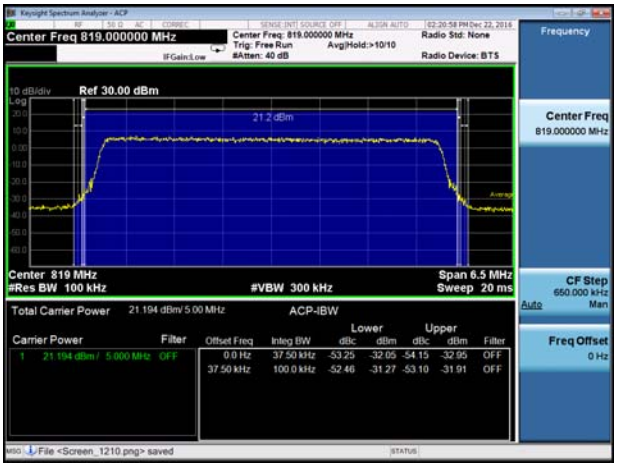


LTE Band 26 16QAM CH Low 5M

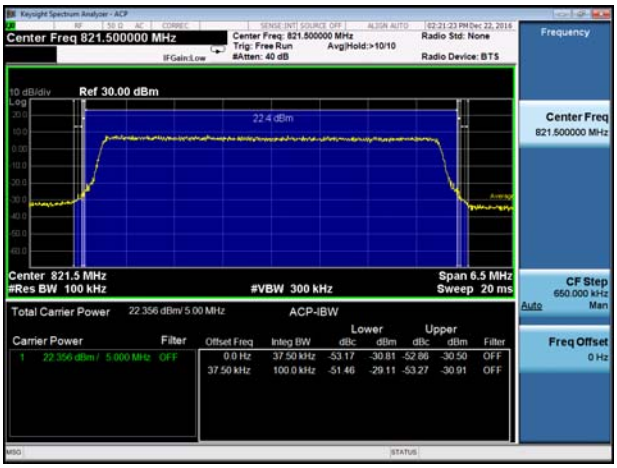


LTE Band 26 QPSK CH Middle 5M

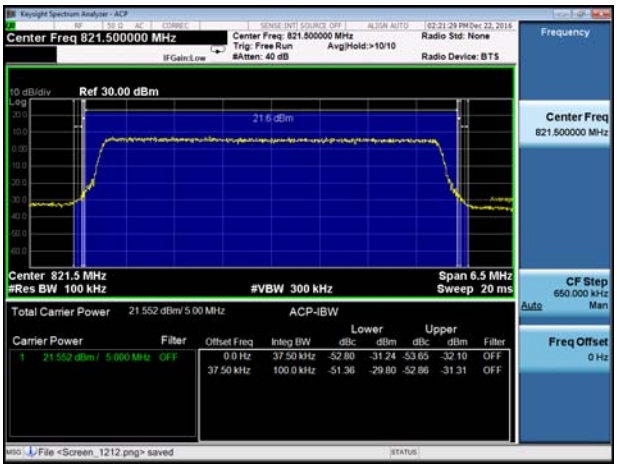
LTE Band 26 16QAM CH Middle 5M



LTE Band 26 QPSK CH High 5M



LTE Band 26 16QAM CH High 5M



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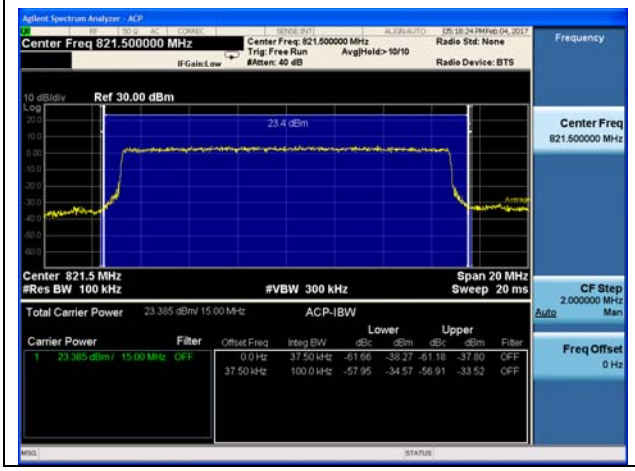
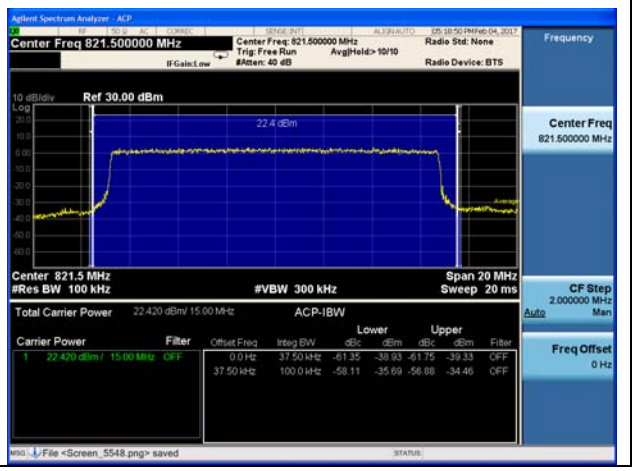
LTE Band 26 QPSK CH Middle 10M

LTE Band 26 16QAM CH Middle 10M

LTE Band 26 QPSK CH Middle 15M



LTE Band 26 16QAM CH Middle 15M



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5.5. Peak-to-Average Power Ratio (PAPR)

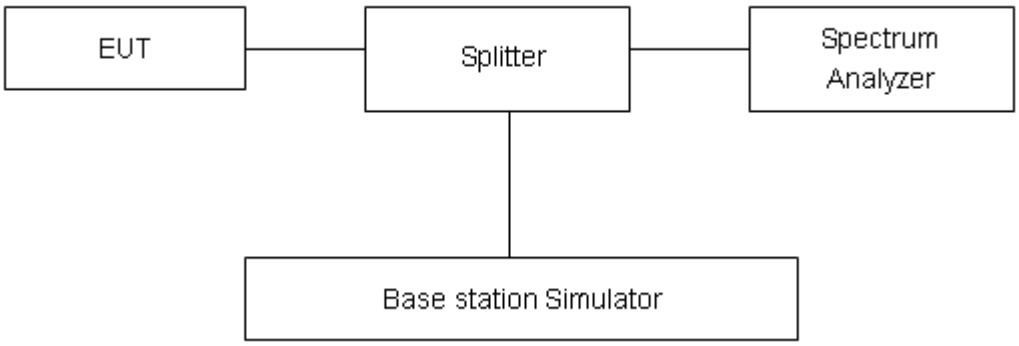
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (*e.g.*, dBm). Determine the PAPR from:
PAPR (dB) = PPk (dBm) - PAvg (dBm).

Test Setup



Limits

In measuring transmissions in this band using an average power technique, the peakto-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the

normal distribution is with the coverage factor k = 2, U= 0.4 dB.

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Test Results

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
1.4 MHz (QPSK)	26697	814.7	27.37	22.69	4.68	13	PASS
	26740	819	27.82	22.78	5.04	13	PASS
	26783	823.3	27.89	22.73	5.16	13	PASS
3 MHz (QPSK)	26697	814.7	27.57	22.72	4.85	13	PASS
	26740	819	27.64	22.53	5.11	13	PASS
	26783	823.3	27.92	22.73	5.19	13	PASS
5 MHz (QPSK)	26697	814.7	27.53	22.70	4.83	13	PASS
	26740	819	27.57	22.55	5.02	13	PASS
	26783	823.3	27.73	22.62	5.11	13	PASS
10 MHz (QPSK)	26740	819	26.81	21.69	5.12	13	PASS
15 MHz (QPSK)	26765	821.5	26.62	21.68	4.94	13	PASS

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
1.4 MHz (16QAM)	26697	814.7	27.20	21.67	5.53	13	PASS
	26740	819	27.59	21.71	5.88	13	PASS
	26783	823.3	27.66	21.65	6.01	13	PASS
3 MHz (16QAM)	26697	814.7	27.39	21.70	5.69	13	PASS
	26740	819	27.33	21.37	5.96	13	PASS
	26783	823.3	27.73	21.66	6.07	13	PASS
5 MHz (16QAM)	26697	814.7	27.34	21.68	5.66	13	PASS
	26740	819	27.26	21.39	5.87	13	PASS
	26783	823.3	27.49	21.54	5.95	13	PASS
10 MHz (16QAM)	26740	819	26.65	21.49	5.16	13	PASS
15 MHz (16QAM)	26765	821.5	27.79	21.86	5.93	13	PASS

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5.6. Frequency Stability

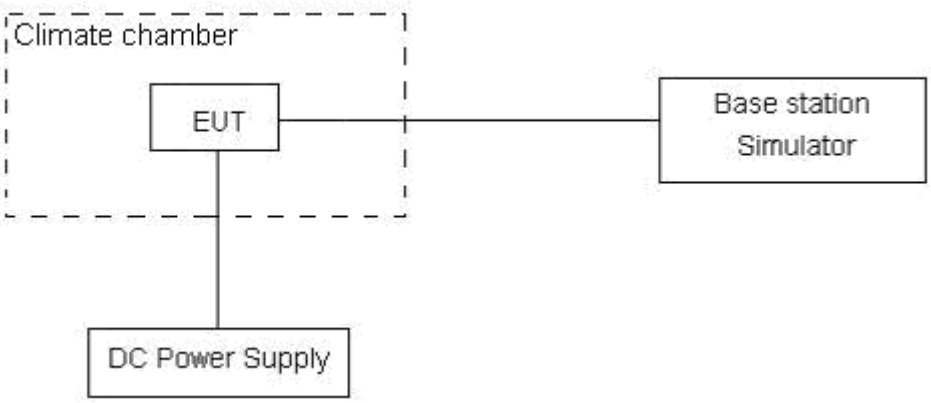
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)
   The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,
   (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
   (2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
   (3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.
2. Frequency Stability (Voltage Variation)
   The frequency stability shall be measured with variation of primary supply voltage as follows:
   (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
   (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.
   This transceiver is specified to operate with an input voltage of between 3.5 V and 4.2 V, with a nominal voltage of 3.7V.

Test setup



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Limits

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.
Minimum Frequency Stability
[Parts per million (ppm)]

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
809-824	1.5	2.5	2.5

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75％ confidence level for the normal distribution is with the coverage factor k = 3,U= 0.01ppm.

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Test Result

Bandwidth	Test status	LTE Band 26 Channel 26740 Test Results (ppm)		
		QPSK	16QAM	Conclusion
1.4MHz	-30°C/3.7 V	-0.00585	-0.00461	PASS
	-20°C/3.7 V	-0.00310	0.00801	PASS
	-10°C/3.7 V	-0.00556	0.00484	PASS
	0°C/3.7 V	-0.00439	0.00988	PASS
	10°C/3.7 V	-0.00744	-0.00295	PASS
	20°C/3.7 V	-0.00994	-0.00230	PASS
	30°C/3.7 V	-0.00529	-0.00238	PASS
	40°C/3.7 V	-0.00331	-0.00342	PASS
	50°C/3.7 V	-0.00526	-0.00224	PASS
	20°C/3.5 V	-0.00150	0.00303	PASS
	20°C/4.2 V	-0.00328	-0.00598	PASS
3MHz	-30°C/3.7 V	0.00214	0.00306	PASS
	-20°C/3.7 V	0.00144	0.00410	PASS
	-10°C/3.7 V	0.00209	0.00487	PASS
	0°C/3.7 V	0.00278	-0.00019	PASS
	10°C/3.7 V	-0.00132	-0.00030	PASS
	20°C/3.7 V	-0.00041	0.00202	PASS
	30°C/3.7 V	-0.00044	0.00028	PASS
	40°C/3.7 V	0.00704	0.00089	PASS
	50°C/3.7 V	0.00067	0.00347	PASS
	20°C/3.5 V	-0.00332	0.00400	PASS
	20°C/4.2 V	-0.00057	0.00330	PASS
5MHz	-30°C/3.7 V	0.00611	0.00207	PASS
	-20°C/3.7 V	0.00053	0.00411	PASS
	-10°C/3.7 V	0.00918	0.00054	PASS
	0°C/3.7 V	0.00948	0.00554	PASS
	10°C/3.7 V	-0.00046	0.00545	PASS
	20°C/3.7 V	-0.00024	0.00794	PASS
	30°C/3.7 V	-0.00171	0.00348	PASS
	40°C/3.7 V	-0.00058	0.00592	PASS
	50°C/3.7 V	0.00584	0.00423	PASS
	20°C/3.5 V	0.00531	0.00432	PASS
	20°C/4.2 V	0.00324	0.00998	PASS
10MHz	-30°C/3.7 V	0.00438	0.00276	PASS
	-20°C/3.7 V	-0.00205	0.00446	PASS

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	-10°C/3.7 V	-0.00317	0.00202	PASS
	0°C/3.7 V	-0.00171	0.00648	PASS
	10°C/3.7 V	-0.00192	0.00398	PASS
	20°C/3.7 V	0.00802	0.00408	PASS
	30°C/3.7 V	0.00771	-0.00093	PASS
	40°C/3.7 V	-0.00094	0.00264	PASS
	50°C/3.7 V	0.00465	0.00060	PASS
	20°C/3.5 V	0.00178	0.00851	PASS
	20°C/4.2 V	0.00385	0.00286	PASS
15MHz	-30°C/3.7 V	-0.00983	0.00487	PASS
	-20°C/3.7 V	-0.0075	0.00399	PASS
	-10°C/3.7 V	-0.00129	0.00667	PASS
	0°C/3.7 V	-0.00633	0.00579	PASS
	10°C/3.7 V	-0.00575	0.00384	PASS
	20°C/3.7 V	-0.00887	-0.00165	PASS
	30°C/3.7 V	-0.0033	-0.00979	PASS
	40°C/3.7 V	-0.00287	-0.00475	PASS
	50°C/3.7 V	0.00679	-0.00349	PASS
	20°C/3.5 V	0.00321	-0.00903	PASS
	20°C/4.2 V	0.00608	-0.00962	PASS

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5.7. Spurious Emissions at Antenna Terminals

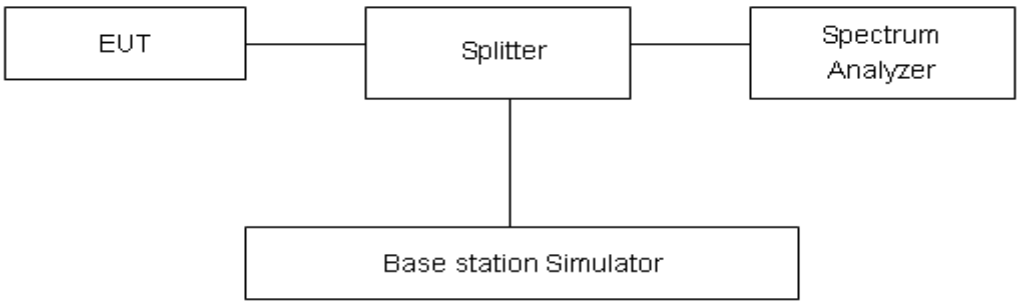
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

Limit	-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

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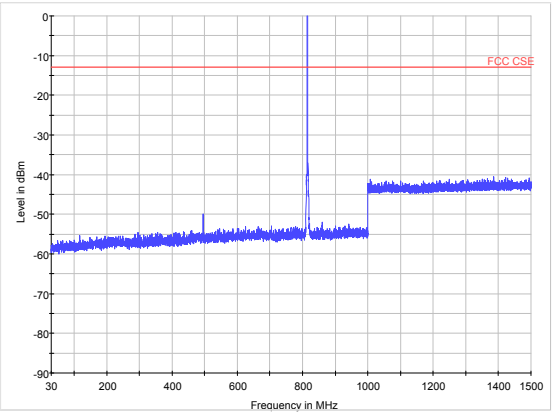
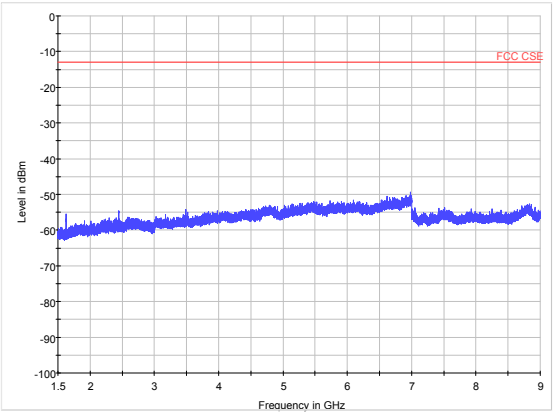
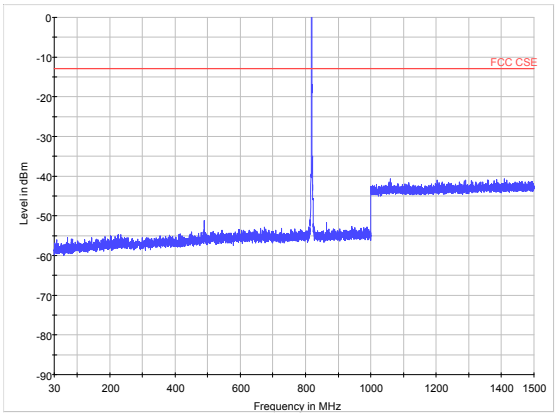
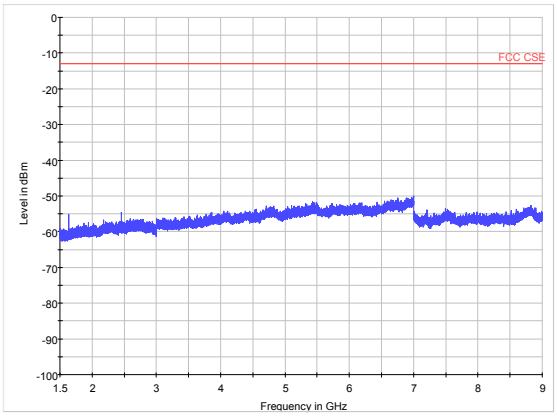
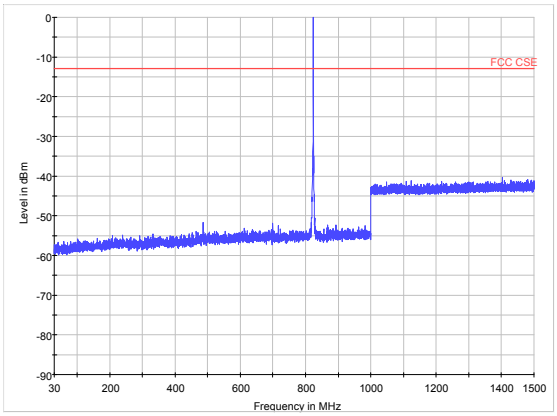
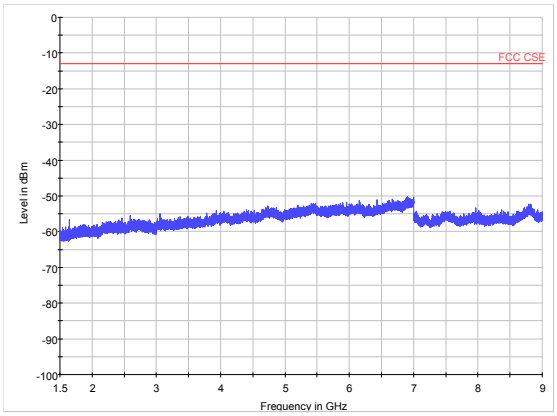
Test Result

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.

LTE Band 26 1.4MHz CH26697 30MHz~1.5GHz  	LTE Band 26 1.4MHz CH26697 1.5GHz~9GHz 
LTE Band 26 1.4MHz CH26740 30MHz~1.5GHz  	LTE Band 26 1.4MHz CH26740 1.5GHz~9GHz 
LTE Band 26 1.4MHz CH26783 30MHz~1.5GHz  	LTE Band 26 1.4MHz CH26783 1.5GHz~9GHz 

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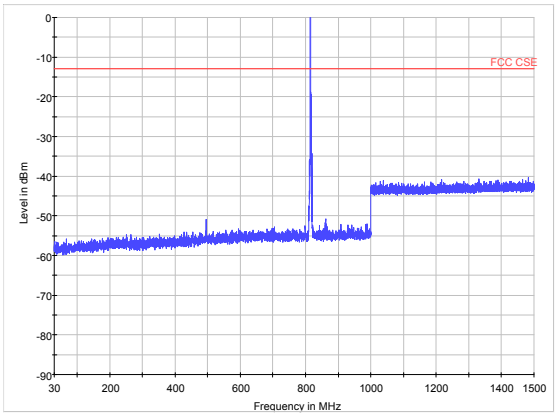
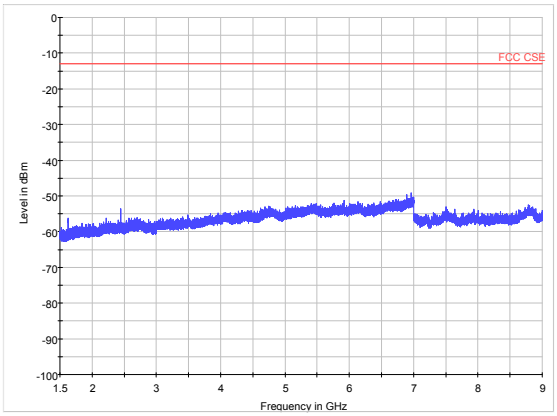
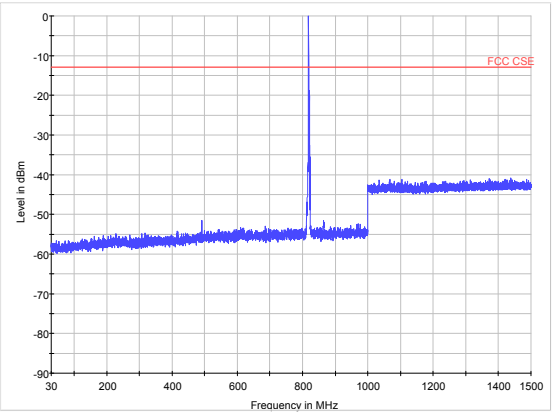
LTE Band 26 3MHz CH26705 30MHz~1.5GHz



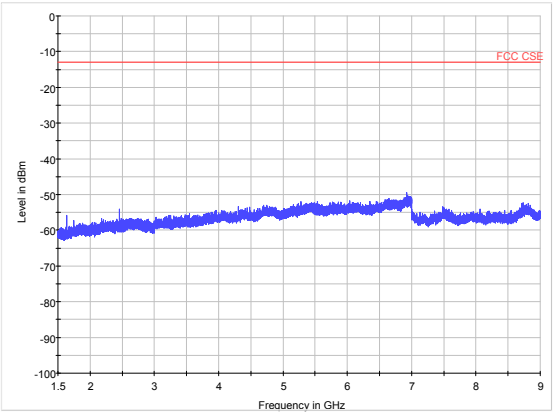
LTE Band 26 3MHz CH26705 1.5GHz~9GHz



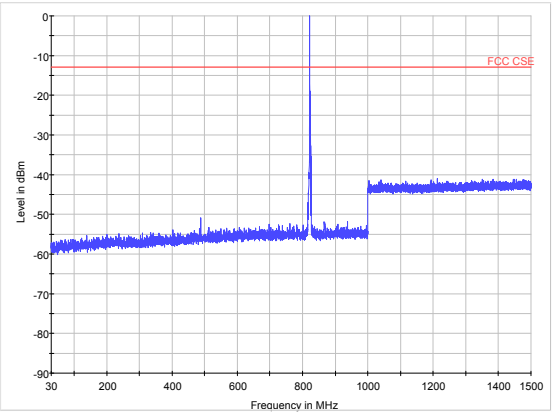
LTE Band 26 3MHz CH26740 30MHz~1.5GHz



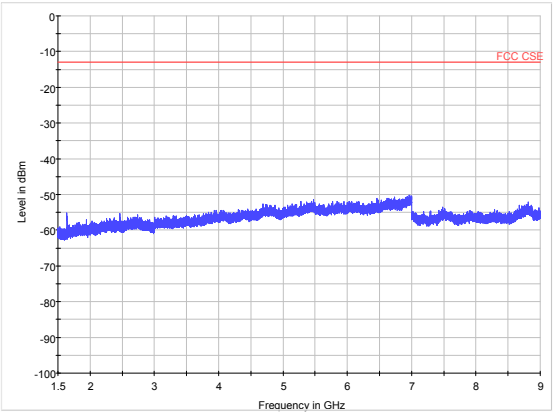
LTE Band 26 3MHz CH26740 1.5GHz~9GHz



LTE Band 26 3MHz CH26775 30MHz~1.5GHz



LTE Band 26 3MHz CH26775 1.5GHz~9GHz



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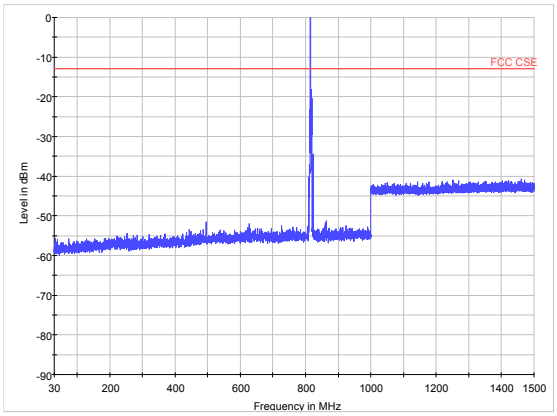
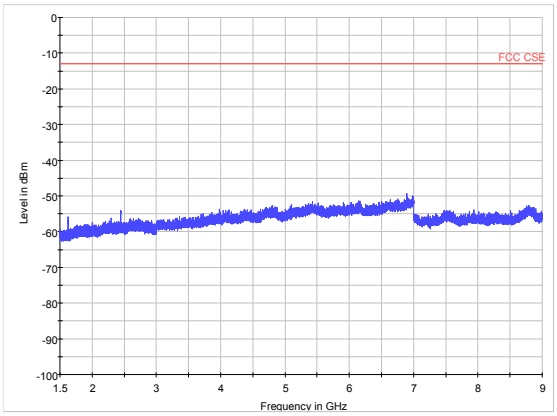
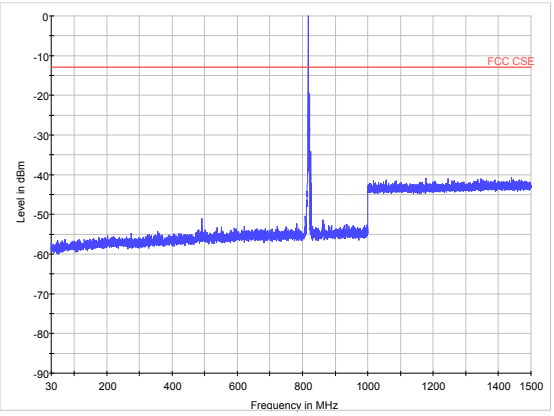
LTE Band 26 5MHz CH26715 30MHz~1.5GHz



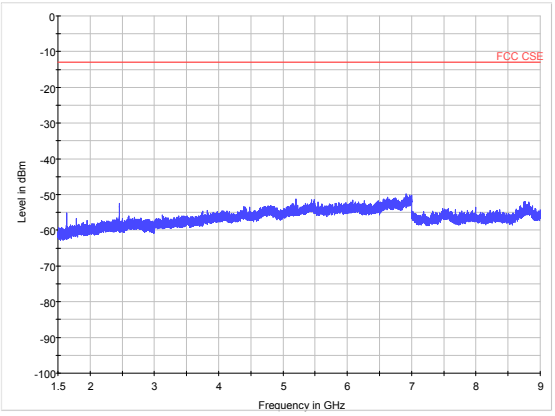
LTE Band 26 5MHz CH26715 1.5GHz~9GHz



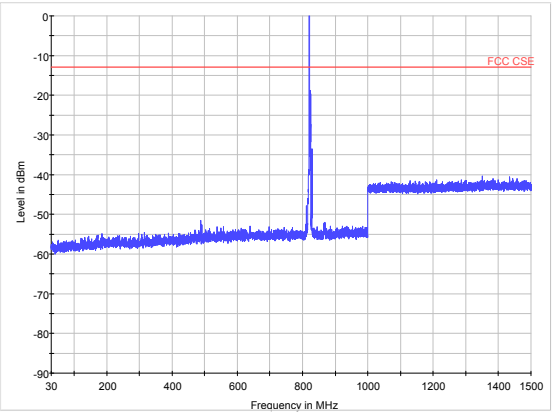
LTE Band 26 5MHz CH26740 30MHz~1.5GHz



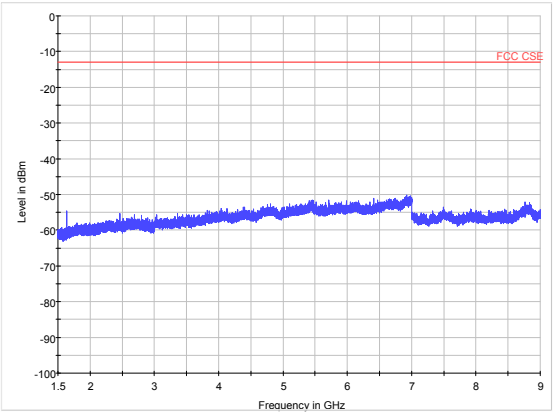
LTE Band 26 5MHz CH26740 1.5GHz~9GHz



LTE Band 26 5MHz CH26765 30MHz~1.5GHz



LTE Band 26 5MHz CH26765 1.5GHz~9GHz



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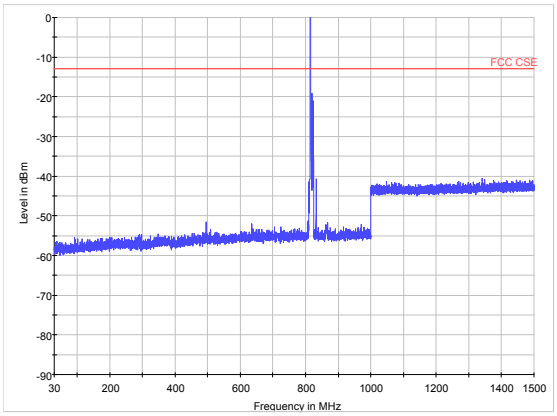
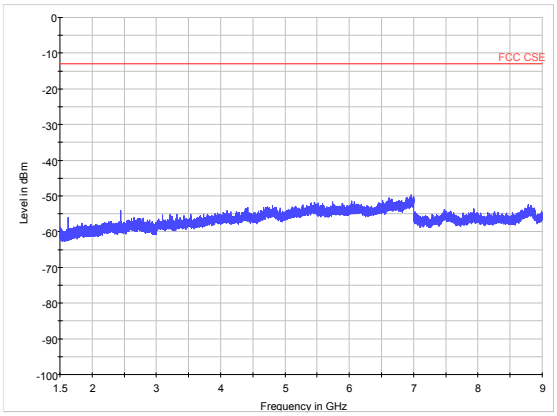
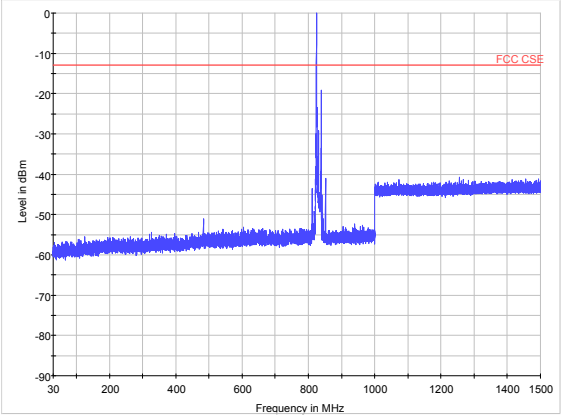
LTE Band 26 10MHz CH26740 30MHz~1.5GHz



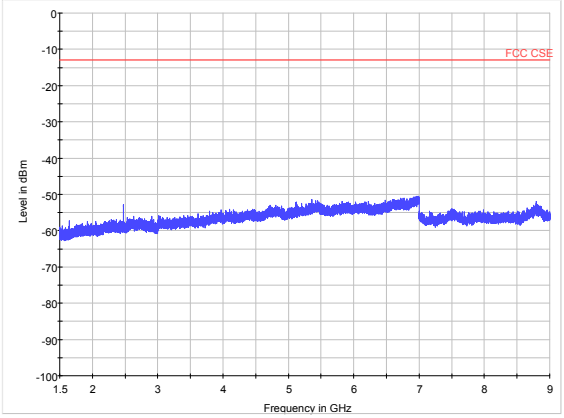
LTE Band 26 10MHz CH26740 1.5GHz~9GHz



LTE Band 26 15MHz CH26765 30MHz~1.5GHz



LTE Band 26 15MHz CH26765 1.5GHz~9GHz



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5.8. Radiates Spurious Emission

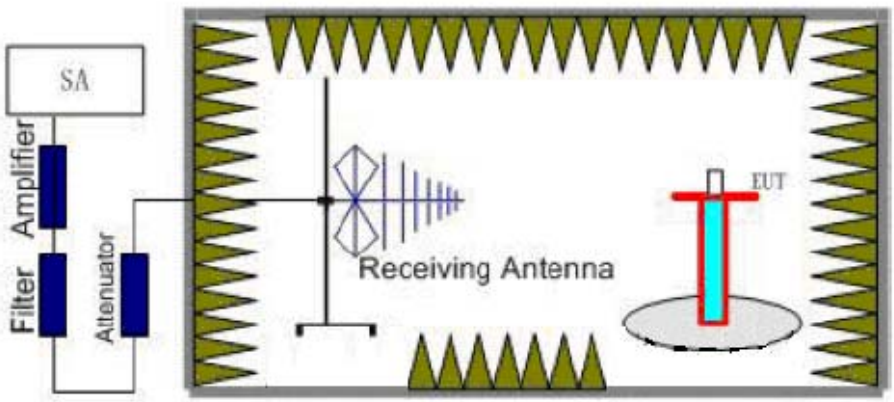
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The measurements procedures in TIA -603-D are used.
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment.
The emissions less than 20 dB below the permissible value are reported.

The procedure of Radiates Spurious Emission is as follows:
Step 1:
The measurement is carried out in the semi-anechoic chamber. EUT was placed on a 1.5 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used while RBW and VBW are both set to 100 kHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



Step 2:
A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a Tx cable. Adjust the level of the signal generator output until the value of the receiver reach the previously recorded analyzer power level (LVL).Then The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.

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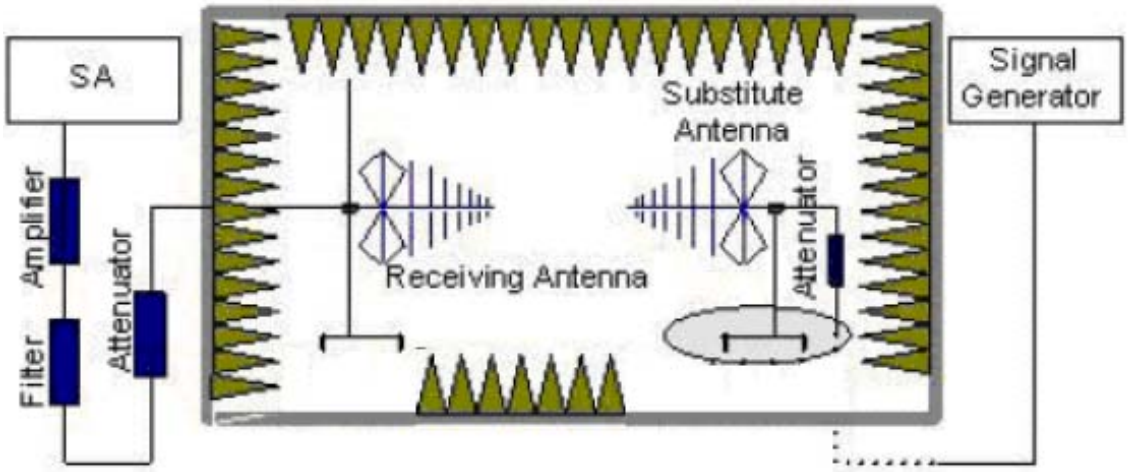

E.R.P（peak power）=S.G. - Tx Cable loss + Substitution antenna gain – 2.15.
EIRP= E.R.P+2.15

Limits

Rule Part 90.691 specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB."

Limit	-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95％ confidence level for the normal distribution is with the coverage factor *k* = 1.96, *U*= 3.55 dB.

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Test Result

Receiver antenna polarization (horizontal and vertical), the worst emission was found in vertical polarization，and the worst case in vertical polarization was recorded.

LTE Band 26 1.4MHz CH26697

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.4	-59.10	2.00	10.75	vertical	-52.5	-13.00	39.50	0
3	2442.8	-40.39	2.51	11.05	vertical	-34.0	-13.00	21.00	45
4	3258.8	-54.70	4.20	11.15	vertical	-49.9	-13.00	36.90	135
5	4073.5	-52.40	5.20	11.15	vertical	-48.6	-13.00	35.60	225
6	4888.2	-51.10	5.50	11.95	vertical	-46.8	-13.00	33.80	225
7	5702.9	-51.30	5.70	13.55	vertical	-45.6	-13.00	32.60	90
8	6517.6	-48.70	6.30	13.75	vertical	-43.4	-13.00	30.40	45
9	7332.3	-47.60	6.80	13.85	vertical	-42.7	-13.00	29.70	225
10	8147.0	-47.30	6.90	14.25	vertical	-42.1	-13.00	29.10	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

LTE Band 26 1.4MHz CH26740

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.4	-59.00	2.00	10.75	vertical	-52.4	-13.00	39.40	90
3	2442.8	-40.49	2.51	11.05	vertical	-34.1	-13.00	21.10	225
4	3276.0	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	45
5	4095.0	-53.10	5.20	11.15	vertical	-49.3	-13.00	36.30	135
6	4914.0	-50.50	5.50	11.95	vertical	-46.2	-13.00	33.20	0
7	5733.0	-51.10	5.70	13.55	vertical	-45.4	-13.00	32.40	135
8	6552.0	-49.80	6.30	13.75	vertical	-44.5	-13.00	31.50	225
9	7371.0	-47.60	6.80	13.85	vertical	-42.7	-13.00	29.70	135
10	8190.0	-48.40	6.90	14.25	vertical	-43.2	-13.00	30.20	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

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LTE Band 26 1.4MHz CH26783

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1645.5	-58.00	2.00	10.75	vertical	-51.4	-13.00	38.40	90
3	2468.6	-39.79	2.51	11.05	vertical	-33.4	-13.00	20.40	135
4	3293.2	-55.00	4.20	11.15	vertical	-50.2	-13.00	37.20	45
5	4116.5	-52.90	5.20	11.15	vertical	-49.1	-13.00	36.10	90
6	4939.8	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	225
7	5763.1	-51.00	5.70	13.55	vertical	-45.3	-13.00	32.30	90
8	6586.4	-49.50	6.30	13.75	vertical	-44.2	-13.00	31.20	135
9	7409.7	-48.40	6.80	13.85	vertical	-43.5	-13.00	30.50	225
10	8233.0	-47.50	6.90	14.25	vertical	-42.3	-13.00	29.30	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

LTE Band 26 3MHz CH26705

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.4	-58.70	2.00	10.75	vertical	-52.1	-13.00	39.10	225
3	2442.8	-40.59	2.51	11.05	vertical	-34.2	-13.00	21.20	225
4	3262.0	-55.10	4.20	11.15	vertical	-50.3	-13.00	37.30	90
5	4077.5	-52.50	5.20	11.15	vertical	-48.7	-13.00	35.70	45
6	4893.0	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	225
7	5708.5	-51.90	5.70	13.55	vertical	-46.2	-13.00	33.20	90
8	6524.0	-50.70	6.30	13.75	vertical	-45.4	-13.00	32.40	45
9	7339.5	-48.40	6.80	13.85	vertical	-43.5	-13.00	30.50	135
10	8155.0	-48.40	6.90	14.25	vertical	-43.2	-13.00	30.20	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

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LTE Band 26 3MHz CH26740

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1635.6	-62.10	2.00	10.75	vertical	-55.5	-13.00	42.50	90
3	2453.1	-40.19	2.51	11.05	vertical	-33.8	-13.00	20.80	45
4	3276.0	-55.80	4.20	11.15	vertical	-51.0	-13.00	38.00	90
5	4095.0	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	135
6	4914.0	-51.50	5.50	11.95	vertical	-47.2	-13.00	34.20	270
7	5733.0	-52.60	5.70	13.55	vertical	-46.9	-13.00	33.90	225
8	6552.0	-50.10	6.30	13.75	vertical	-44.8	-13.00	31.80	135
9	7371.0	-47.50	6.80	13.85	vertical	-42.6	-13.00	29.60	225
10	8190.0	-48.80	6.90	14.25	vertical	-43.6	-13.00	30.60	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

LTE Band 26 3MHz CH26775

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1642.1	-59.00	2.00	10.75	vertical	-52.4	-13.00	39.40	225
3	2463.6	-39.79	2.51	11.05	vertical	-33.4	-13.00	20.40	90
4	3290.0	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	0
5	4112.5	-53.00	5.20	11.15	vertical	-49.2	-13.00	36.20	45
6	4935.0	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	90
7	5757.5	-50.40	5.70	13.55	vertical	-44.7	-13.00	31.70	225
8	6580.0	-48.70	6.30	13.75	vertical	-43.4	-13.00	30.40	90
9	7402.5	-46.80	6.80	13.85	vertical	-41.9	-13.00	28.90	135
10	8225.0	-47.90	6.90	14.25	vertical	-42.7	-13.00	29.70	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

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LTE Band 26 5MHz CH26715

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.4	-58.60	2.00	10.75	vertical	-52.0	-13.00	39.00	45
3	2442.9	-41.49	2.51	11.05	vertical	-35.1	-13.00	22.10	135
4	3266.0	-54.70	4.20	11.15	vertical	-49.9	-13.00	36.90	225
5	4082.5	-53.00	5.20	11.15	vertical	-49.2	-13.00	36.20	90
6	4899.0	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	45
7	5715.5	-52.00	5.70	13.55	vertical	-46.3	-13.00	33.30	225
8	6532.0	-49.40	6.30	13.75	vertical	-44.1	-13.00	31.10	90
9	7348.5	-48.60	6.80	13.85	vertical	-43.7	-13.00	30.70	45
10	8165.0	-46.90	6.90	14.25	vertical	-41.7	-13.00	28.70	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

LTE Band 26 5MHz CH26740

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.5	-62.60	2.00	10.75	vertical	-56.0	-13.00	43.00	0
3	2450.6	-40.89	2.51	11.05	vertical	-34.5	-13.00	21.50	0
4	3276.0	-55.60	4.20	11.15	vertical	-50.8	-13.00	37.80	0
5	4095.0	-52.50	5.20	11.15	vertical	-48.7	-13.00	35.70	90
6	4914.0	-50.00	5.50	11.95	vertical	-45.7	-13.00	32.70	135
7	5733.0	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	270
8	6552.0	-48.70	6.30	13.75	vertical	-43.4	-13.00	30.40	225
9	7371.0	-48.80	6.80	13.85	vertical	-43.9	-13.00	30.90	135
10	8190.0	-48.70	6.90	14.25	vertical	-43.5	-13.00	30.50	225

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

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LTE Band 26 5MHz CH26765

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1640.8	-58.20	2.00	10.75	vertical	-51.6	-13.00	38.60	45
3	2460.9	-39.59	2.51	11.05	vertical	-33.2	-13.00	20.20	90
4	3290.0	-55.30	4.20	11.15	vertical	-50.5	-13.00	37.50	135
5	4112.5	-52.60	5.20	11.15	vertical	-48.8	-13.00	35.80	0
6	4935.0	-52.00	5.50	11.95	vertical	-47.7	-13.00	34.70	45
7	5757.5	-51.80	5.70	13.55	vertical	-46.1	-13.00	33.10	90
8	6580.0	-48.80	6.30	13.75	vertical	-43.5	-13.00	30.50	225
9	7402.5	-48.70	6.80	13.85	vertical	-43.8	-13.00	30.80	90
10	8225.0	-46.10	6.90	14.25	vertical	-40.9	-13.00	27.90	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

LTE Band 26 10MHz CH26740

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1629.2	-59.70	2.00	10.75	vertical	-53.1	-13.00	40.10	225
3	2443.9	-41.09	2.51	11.05	vertical	-34.7	-13.00	21.70	90
4	3276.0	-53.60	4.20	11.15	vertical	-48.8	-13.00	35.80	225
5	4095.0	-51.60	5.20	11.15	vertical	-47.8	-13.00	34.80	225
6	4914.0	-51.50	5.50	11.95	vertical	-47.2	-13.00	34.20	90
7	5733.0	-52.00	5.70	13.55	vertical	-46.3	-13.00	33.30	45
8	6552.0	-48.80	6.30	13.75	vertical	-43.5	-13.00	30.50	225
9	7371.0	-47.60	6.80	13.85	vertical	-42.7	-13.00	29.70	90
10	8190.0	-47.90	6.90	14.25	vertical	-42.7	-13.00	29.70	45

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2.The worst emission was found in the antenna is vertical position.

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LTE Band 26 15MHz CH26765

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1643.0	-57.50	2.00	10.75	vertical	-50.9	-13.00	37.90	225
3	2464.5	-40.39	2.51	11.05	vertical	-34.0	-13.00	21.00	90
4	3286.00	-55.20	4.20	11.15	vertical	-50.4	-13.00	37.40	135
5	4107.50	-52.20	5.20	11.15	vertical	-48.4	-13.00	35.40	270
6	4929.00	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	225
7	5750.50	-51.60	5.70	13.55	vertical	-45.9	-13.00	32.90	135
8	6572.00	-49.10	6.30	13.75	vertical	-43.8	-13.00	30.80	225
9	7393.50	-47.20	6.80	13.85	vertical	-42.3	-13.00	29.30	135
10	8215.00	-47.20	6.90	14.25	vertical	-42.0	-13.00	29.00	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2.The worst emission was found in the antenna is vertical position.

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6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Base Station Simulator	CMW500	R&S	113645	2016-05-21	2017-05-20
Power Splitter	SHX-GF2-2-13	Hua Xiang	10120101	NA	NA
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
Universal Radio Communication Tester	E5515C	Agilent	MY48367192	2016-05-21	2017-05-20
Signal Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
Signal generator	SMB 100A	R&S	102594	2016-05-21	2017-05-20
Signal generator	SMR27	R&S	100365	2016-05-21	2017-05-20
EMI Test Receiver	ESCI	R&S	100948	2016-06-01	2017-05-31
Trilog Antenna	VUBL 9163	SCHWARZBECK	9163-201	2014-12-06	2017-12-05
Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Climatic Chamber	PT-30B	Re Ce	20101891	2016-07-18	2017-07-17
Climatic Chamber	PT-30B	Re Ce	20101891	2016-07-17	2017-07-16
RF Cable	SMA 15cm	Agilent	0001	2016-10-06	2017-01-05

*******END OF REPORT *******

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ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance

Front Side

Back Side

a: EUT

Picture 1 EUT and Accessory

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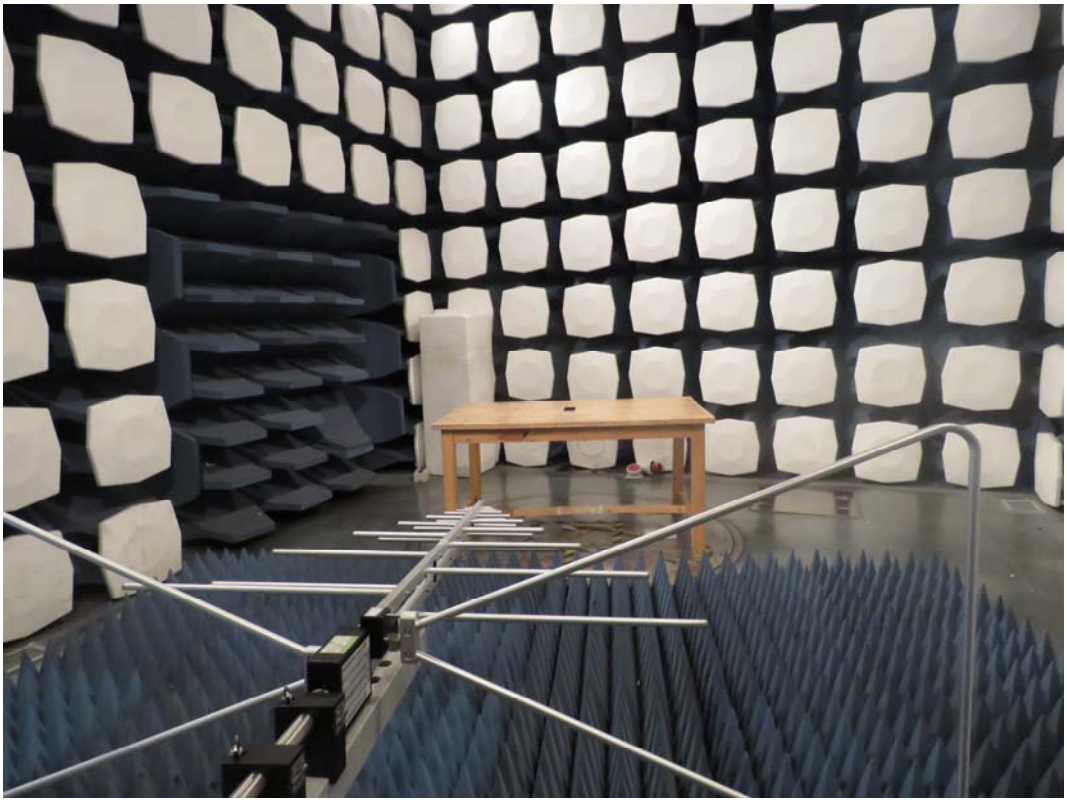
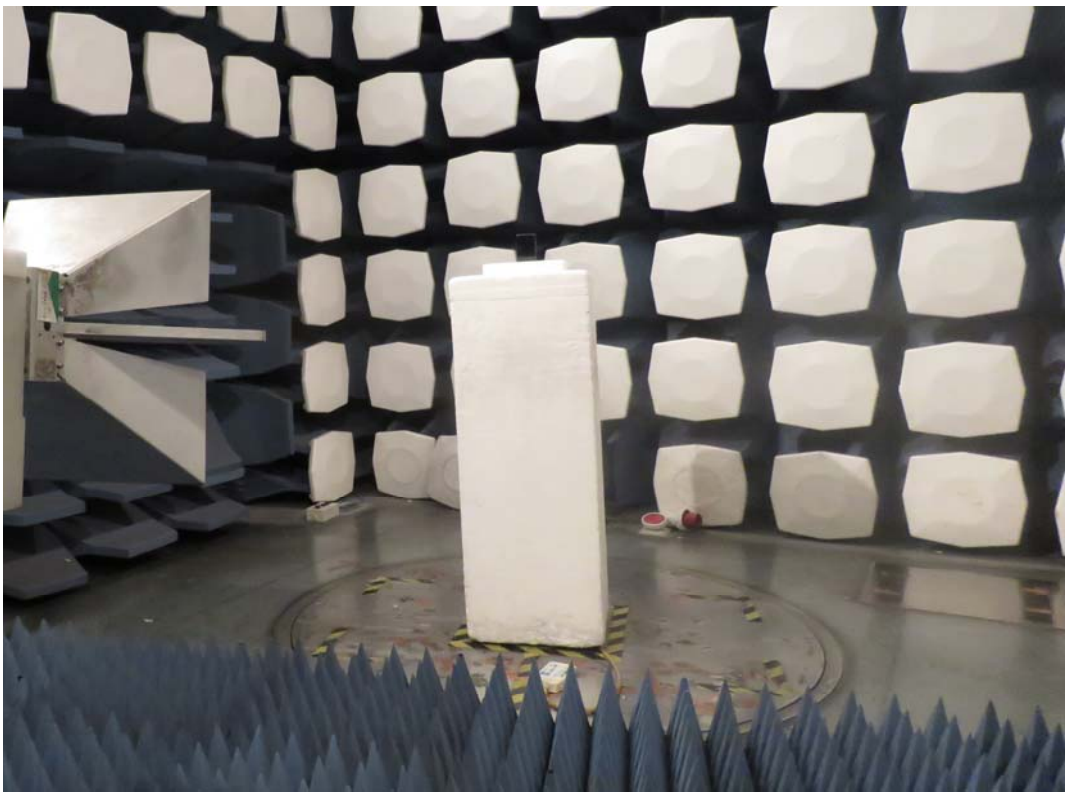
A.2 Test Setup





Picture 2: Radiated Spurious Emissions Test setup

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